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To refer to all models prior to Nov 27, 2018, click [here](#).



## Box Camera Specifications

|                           |                                   | GV-BX2700 Series                                                                      |                                                                                   | GV-BX4700 Series                                                                  |                                                                                   | GV-BX5700 Series                                                                   |                                                                                     | GV-BX8700                                                                           | GV-BX12201                                                                          |                              |
|---------------------------|-----------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|
|                           |                                   | GV-BX2700-8F                                                                          | GV-BX2700-3V                                                                      | GV-BX4700-8F                                                                      | GV-BX4700-3V                                                                      | GV-BX5700-8F                                                                       | GV-BX5700-3V                                                                        |                                                                                     |                                                                                     |                              |
|                           |                                   | Fixed Lens                                                                            | Varifocal Lens                                                                    | Fixed Lens                                                                        | Varifocal Lens                                                                    | Fixed Lens                                                                         | Varifocal Lens                                                                      |                                                                                     |                                                                                     |                              |
|                           |                                   |      |  |  |  |  |  |  |  |                              |
| Camera                    |                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Image Sensor              |                                   | 1/2.8" progressive scan super low lux CMOS                                            |                                                                                   | 1/3" progressive scan super low lux CMOS                                          |                                                                                   | 1/1.8" progressive scan low lux CMOS                                               |                                                                                     | 1/2" progressive scan super low lux CMOS                                            | 1/1.7" progressive scan CMOS                                                        |                              |
| Picture Elements          |                                   | 1920 (H) x 1080 (V)                                                                   |                                                                                   | 2592 (H) x 1520 (V)                                                               |                                                                                   | 2592 (H) x 1944 (V)                                                                |                                                                                     | 3840 (H) x 2160 (V)                                                                 | 4000 (H) x 3000 (V)                                                                 |                              |
| Minimum Illumination      | Color                             | 0.005 Lux                                                                             |                                                                                   | 0.03 Lux                                                                          |                                                                                   | 0.04 Lux                                                                           |                                                                                     | 0.1 Lux                                                                             |                                                                                     |                              |
|                           | B/W                               | 0.004 Lux                                                                             |                                                                                   | 0.02 Lux                                                                          |                                                                                   | 0.03 Lux                                                                           |                                                                                     | 0.05 Lux                                                                            |                                                                                     |                              |
|                           | IR ON                             | 0 Lux                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Shutter Speed             |                                   | Automatic, Manual (1/5 ~ 1/16000 sec)                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| White Balance             |                                   | Automatic, Manual (2800 ~ 8500K)                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Gain Control              |                                   | Automatic, Manual (1/5 ~ 1/16000 sec)                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| S/N Ratio                 |                                   | Automatic, Manual (2800 ~ 8500K)                                                      |                                                                                   | 50 dB                                                                             |                                                                                   | 50 dB                                                                              |                                                                                     | 52 dB                                                                               |                                                                                     |                              |
| WDR Pro (with WDR sensor) |                                   | Yes                                                                                   |                                                                                   | Yes                                                                               |                                                                                   | N/A                                                                                |                                                                                     | Yes                                                                                 | N/A                                                                                 |                              |
| Dynamic Range             |                                   | 130 dB                                                                                |                                                                                   | Up to 120 dB                                                                      |                                                                                   | Up to 72 dB                                                                        |                                                                                     | Up to 120 dB                                                                        | Up to 72 dB                                                                         |                              |
| Operation                 |                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Video Compression         |                                   | H.265, H.264, MJPEG                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | H.264, MJPEG                                                                        |                              |
| Video Streaming           |                                   | Triple streams from H.265, H.264 or MJPEG                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | Dual streams from H.264 or MJPEG                                                    |                              |
| Frame Rate                |                                   | 30 fps at 1920 x 1080                                                                 |                                                                                   | 20 fps at 2592 x 1520,<br>24 fps at 2560 x 1440,<br>30 fps at 2048 x 1520         |                                                                                   | 30 fps at 2592 x 1944                                                              |                                                                                     | 30 fps at 3840 x 2160                                                               | 15 fps at 4000 x 3000<br>30 fps at 3840 x 2160                                      |                              |
| Audio Compression         |                                   | G.711                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Audio Support             |                                   | Two-way Audio (external speaker required)                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Sensor Input              |                                   | 1 Input (Dry Contact)                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Alarm Output              |                                   | 1 Digital Output (200 mA 5 V DC)                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Optical Lens              |                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Day/Night                 |                                   | Yes (with removable IR-cut filter)                                                    |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Lens Type                 |                                   | Fixed Lens                                                                            | Varifocal Lens                                                                    | Fixed Lens                                                                        | Varifocal Lens                                                                    | Fixed Lens                                                                         | Varifocal Lens                                                                      |                                                                                     |                                                                                     |                              |
| Focal Length              |                                   | 2.8 mm                                                                                | 3 ~ 10.5 mm                                                                       | 2.8 mm                                                                            | 3 ~ 10.5 mm                                                                       | 2.95 mm                                                                            | 3.6 ~ 10 mm                                                                         |                                                                                     | 4.1 ~ 9 mm                                                                          |                              |
| Maximum Aperture          |                                   | F/1.8                                                                                 | F/1.4                                                                             | F/1.8                                                                             | F/1.4                                                                             | F/2.0                                                                              | F/1.5                                                                               |                                                                                     | F/1.6                                                                               |                              |
| Mount                     |                                   | CS Mount                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Image Format              |                                   | 1/2.5"                                                                                | 1/2.7"                                                                            | 1/2.5"                                                                            | 1/2.7"                                                                            | 1/1.8"                                                                             |                                                                                     | 1/1.8"                                                                              |                                                                                     |                              |
| Horizontal FOV            |                                   | 110°                                                                                  | 100° ~ 35°                                                                        | 104°                                                                              | 78° ~ 31°                                                                         | 120°                                                                               | 90° ~ 40°                                                                           | 108° ~ 48°                                                                          | 109° ~ 50°                                                                          |                              |
| Operation                 | Focus                             | Manual (w/lock)                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
|                           | Zoom                              | Fixed                                                                                 | Manual (w/lock)                                                                   | Fixed                                                                             | Manual (w/lock)                                                                   | Fixed                                                                              | Manual (w/lock)                                                                     |                                                                                     |                                                                                     |                              |
|                           | Iris                              | Fixed                                                                                 | P-Iris                                                                            | Fixed                                                                             | P-Iris                                                                            | Fixed                                                                              | P-Iris                                                                              |                                                                                     | DC drive                                                                            |                              |
| Mechanical                |                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Temperature Detector      |                                   | Yes                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Connectors                | Power                             | 2-pin terminal block, PoE                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
|                           | Ethernet                          | Ethernet (10/100 Base-T), RJ-45 Connector                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | Ethernet (10/100/1000 Base-T), RJ-45 Connector                                      |                              |
|                           | Audio                             | 1 In (built-in or external microphone), 1 Out (3.5 mm stereo jack)                    |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
|                           | Digital I/O                       | 3-pin terminal block, pitch 2.5 mm/0.1"                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
|                           | Auto Iris                         | Not functional                                                                        | Yes (with varifocal lens)                                                         | Not functional                                                                    | Yes (with varifocal lens)                                                         | Not functional                                                                     | Yes (with varifocal lens)                                                           |                                                                                     |                                                                                     |                              |
|                           | Local Storage                     | Micro SD card slot (SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported. |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
|                           | TV-Out                            | BNC connector (640 x 480 resolution)                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Mini USB                  | GV-WiFi Adapter or USB hard drive |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| LED Indicator             |                                   | 2 LEDs: Power, Status                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| General                   |                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Environment Temperature   |                                   | 0 °C ~ 50 °C (32 °F ~ 122 °F)                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Humidity                  |                                   | 10% to 90% (no condensation)                                                          |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                              |
| Power Source              |                                   | 12V DC / PoE (IEEE 802.3af)                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | 12V DC / 24V AC / PoE (IEEE 802.3af)                                                |                              |
| Max. Power Consumption    |                                   | 4.9 W                                                                                 |                                                                                   |                                                                                   |                                                                                   | 4.37 W                                                                             |                                                                                     | 6 W                                                                                 | 6 W                                                                                 |                              |
| Regulatory                |                                   | CE, FCC, RCM, LVD, RoHS compliant                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | CE, FCC, LVD, RoHS compliant                                                        | CE, FCC, RCM, RoHS compliant |
| Dimensions                |                                   | 75.5 x 75 x 54 mm (2.97" x 2.95" x 2.13")                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | With lens: 184.1 x 75.2 x 64.1 mm (7.25" x 2.96" x 2.52")                           |                              |
| Weight                    |                                   | 320 g (0.7 lb)                                                                        | 350 g (0.77 lb)                                                                   | 330 g (0.72 lb)                                                                   | 350 g (0.77 lb)                                                                   | 330 g (0.72 lb)                                                                    | 350 g (0.77 lb)                                                                     | 320 g (0.7 lb)                                                                      | 545 g / 1.2 lb                                                                      |                              |

### Note:

- The TV-Out function only works in 640x480 resolution. For TV-Out to work properly, you must set the resolution to 1280x1024 or lower. If both streams are enabled, the Sub Stream must be set to 640x480.
- Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## IR Arctic Box Camera Specifications

| GV-BX4700-E                                                                       |               |                                                                     |
|-----------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------|
|  |               |                                                                     |
| <b>Camera</b>                                                                     |               |                                                                     |
| Image Sensor                                                                      |               | 1/3" progressive scan super low lux CMOS                            |
| Picture Elements                                                                  |               | 2592 (H) x 1520 (V)                                                 |
| Minimum Illumination                                                              | Color         | 0.03 Lux                                                            |
|                                                                                   | B/W           | 0.02 Lux                                                            |
|                                                                                   | IR ON         | 0 Lux                                                               |
| Shutter Speed                                                                     |               | Automatic, Manual (1/5 ~ 1/16000 sec)                               |
| White Balance                                                                     |               | Auto, Manual (2800K ~ 8500K)                                        |
| Gain Control                                                                      |               | Automatic                                                           |
| S/N Ratio                                                                         |               | 50 dB                                                               |
| WDR Pro (with WDR Sensor)                                                         |               | Yes                                                                 |
| Dynamic Range                                                                     |               | Up to 120 dB                                                        |
| <b>Operation</b>                                                                  |               |                                                                     |
| Video Compression                                                                 |               | H.265, H.264, MJPEG                                                 |
| Video Streaming                                                                   |               | Triple streams from H.265, H.264 or MJPEG                           |
| Frame Rate                                                                        |               | 20 fps at 2592 x 1520, 24 fps at 2560 x 1440, 30 fps at 2048 x 1520 |
| Audio Compression                                                                 |               | G.711                                                               |
| Audio Support                                                                     |               | Two-way Audio (external microphone and speaker required)            |
| Sensor Input                                                                      |               | N/A                                                                 |
| Alarm Output                                                                      |               | N/A                                                                 |
| <b>Optical Lens</b>                                                               |               |                                                                     |
| Day/Night                                                                         |               | Yes (with removable IR-cut filter)                                  |
| Lens Type                                                                         |               | Varifocal Lens                                                      |
| Focal Length                                                                      |               | 3 ~ 10.5 mm                                                         |
| Maximum Aperture                                                                  |               | F/1.4                                                               |
| Mount                                                                             |               | CS Mount                                                            |
| Image Format                                                                      |               | 1/2.7"                                                              |
| Horizontal FOV                                                                    |               | 78°~31°                                                             |
| Operation                                                                         | Focus         | Manual (w/lock)                                                     |
|                                                                                   | Zoom          | Manual (w/lock)                                                     |
|                                                                                   | Iris          | P-Iris                                                              |
| IR LED Quantity                                                                   |               | 4 IR LEDs                                                           |
| Max. IR Distance                                                                  |               | 30 m (100 ft)                                                       |
| <b>Mechanical</b>                                                                 |               |                                                                     |
| Camera                                                                            | Pan           | 0° ~ 330°                                                           |
| Angle                                                                             | Tilt          | 0° ~ 90°                                                            |
| Adjustment                                                                        | Rotate        | No                                                                  |
| Temperature Detector                                                              |               | Yes                                                                 |
| Connectors                                                                        | Power         | PoE                                                                 |
|                                                                                   | Ethernet      | Ethernet (10/100 Base-T), RJ-45 connector                           |
|                                                                                   | Audio         | 1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)           |
|                                                                                   | Auto Iris     | P-Iris                                                              |
|                                                                                   | Digital I/O   | N/A                                                                 |
|                                                                                   | Local Storage | N/A                                                                 |
|                                                                                   | TV-Out        | BNC connector (640 x 480 resolution)                                |
| LED Indicator                                                                     |               | 1 LED: Status                                                       |
| <b>General</b>                                                                    |               |                                                                     |
| Environment                                                                       | Start-up      | -30 °C ~ 50 °C (-22°F ~ 122°F)                                      |
| Temperature                                                                       | Operation     | -40 °C ~ 50 °C (-40°F ~ 122°F)                                      |
| Humidity                                                                          |               | 10% to 90% (no condensation)                                        |
| Power Source                                                                      |               | PoE (IEEE 802.3 at)                                                 |
| Max. Power Consumption                                                            |               | 23 W                                                                |
| Regulatory                                                                        |               | CE, FCC, RCM, LVD, RoHS compliant                                   |
| Dimensions (L X W X H)<br>(Without lens)                                          |               | 100.5 x 100.5 x 317.5 mm (3.96" x 3.96" x 12.5")                    |
| Weight                                                                            |               | 3.2 Kg (7.1 lb)                                                     |
| Ingress Protection                                                                |               | IP67                                                                |
| Vandal Resistance                                                                 |               | IK10 for metal casing                                               |
| Heater On                                                                         |               | -40°C ~ 8°C (-40°F ~ 46.4°F)                                        |
| Fan                                                                               |               | Constantly on                                                       |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Bullet Camera Specifications

|                           |               | GV-BL2702                                                                                 | GV-BL4713                                                                         | GV-BL8714                                                                           |                 |
|---------------------------|---------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|
|                           |               |          |  |  |                 |
| Camera                    |               |                                                                                           |                                                                                   |                                                                                     |                 |
| Image Sensor              |               | 1/2.8" progressive scan super low lux CMOS                                                | 1/3" progressive scan super low lux CMOS                                          | 1/2" progressive scan super low lux CMOS                                            |                 |
| Picture Elements          |               | 1920 (H) x 1080 (V)                                                                       | 2592 (H) x 1520 (V)                                                               | 3840 (H) x 2160 (V)                                                                 |                 |
| Minimum Illumination      | Color         | 0.005 Lux                                                                                 | 0.03 Lux                                                                          | 0.04 Lux                                                                            |                 |
|                           | B/W           | 0.004 Lux                                                                                 | 0.02 Lux                                                                          | 0.03 Lux                                                                            |                 |
|                           | IR ON         | 0 Lux                                                                                     |                                                                                   |                                                                                     |                 |
| Shutter Speed             |               | Automatic, Manual (1/5 ~ 1/16000 sec)                                                     |                                                                                   |                                                                                     |                 |
| White Balance             |               | Auto, Manual (2800K ~ 8500K)                                                              |                                                                                   |                                                                                     |                 |
| Gain Control              |               | Automatic                                                                                 |                                                                                   |                                                                                     |                 |
| S/N Ratio                 |               | 56 dB                                                                                     | 50 dB                                                                             | 52 dB                                                                               |                 |
| WDR Pro (with WDR sensor) |               | Yes                                                                                       |                                                                                   |                                                                                     |                 |
| Dynamic Range             |               | Up to 130 dB                                                                              | Up to 120 dB                                                                      |                                                                                     |                 |
| Operation                 |               |                                                                                           |                                                                                   |                                                                                     |                 |
| Video Compression         |               | H.265, H.264, MJPEG                                                                       |                                                                                   |                                                                                     |                 |
| Video Streaming           |               | Triple streams                                                                            |                                                                                   |                                                                                     |                 |
| Frame Rate                |               | 30 fps at 1920 x 1080                                                                     | 30 fps at 2048 x 1520                                                             | 30 fps at 3840 x 2160                                                               |                 |
| Audio Compression         |               | G.711                                                                                     |                                                                                   |                                                                                     |                 |
| Audio Support             |               | Two-way Audio (external microphone and speaker required)                                  |                                                                                   |                                                                                     |                 |
| Sensor Input              |               | 1 input (Dry Contact)                                                                     |                                                                                   |                                                                                     |                 |
| Alarm Output              |               | 1 digital output (200 mA 5 V DC)                                                          |                                                                                   |                                                                                     |                 |
| Optical Lens              |               |                                                                                           |                                                                                   |                                                                                     |                 |
| Day/Night                 |               | Yes (with removable IR-cut filter)                                                        |                                                                                   |                                                                                     |                 |
| Lens Type                 |               | Varifocal Lens                                                                            |                                                                                   | Motorized Varifocal Lens                                                            |                 |
| Focal Length              |               | GV-BL2702-3V                                                                              | 2.8 ~ 12 mm                                                                       | 2.8 ~ 12 mm                                                                         | 4 ~ 8 mm        |
|                           |               | GV-BL2702-4V                                                                              | 6 ~ 50 mm                                                                         |                                                                                     |                 |
|                           |               | GV-BL2702-5V                                                                              | 9 ~ 22 mm                                                                         |                                                                                     |                 |
| Maximum Aperture          |               | GV-BL2702-3V                                                                              | F/1.7                                                                             | F/1.7                                                                               | F/1.44          |
|                           |               | GV-BL2702-4V                                                                              | F/1.6                                                                             |                                                                                     |                 |
|                           |               | GV-BL2702-5V                                                                              | F/2.0                                                                             |                                                                                     |                 |
| Mount                     |               | Ø14 mm                                                                                    |                                                                                   |                                                                                     |                 |
| Image Format              |               | 1/2.7"                                                                                    |                                                                                   | 1/2.5"                                                                              |                 |
| Horizontal FOV            |               | GV-BL2702-3V                                                                              | 110° ~ 38°                                                                        | 102° ~ 38°                                                                          | 102° ~ 62°      |
|                           |               | GV-BL2702-4V                                                                              | 56° ~ 8°                                                                          |                                                                                     |                 |
|                           |               | GV-BL2702-5V                                                                              | 42° ~ 17°                                                                         |                                                                                     |                 |
| Operation                 | Focus         | Manual (w/lock)                                                                           |                                                                                   | Auto Focus                                                                          |                 |
|                           | Zoom          | Manual (w/lock)                                                                           |                                                                                   | 4.3X optical zoom                                                                   | 2X optical zoom |
|                           | Iris          | P-Iris                                                                                    |                                                                                   |                                                                                     |                 |
| IR LED Quantity           |               | 5 IR LEDs                                                                                 |                                                                                   |                                                                                     |                 |
| Max. IR Distance          |               | 60 m (200 ft)                                                                             | 60 m (200 ft)                                                                     | 40 m (130 ft)                                                                       |                 |
| Mechanical                |               |                                                                                           |                                                                                   |                                                                                     |                 |
| Camera Angle Adjustment   | Pan           | 0° ~ 360°                                                                                 |                                                                                   |                                                                                     |                 |
|                           | Tilt          | 90° ~ 180°                                                                                |                                                                                   |                                                                                     |                 |
|                           | Rotate        | 0° ~ 360°                                                                                 |                                                                                   |                                                                                     |                 |
| Temperature Detector      |               | Yes                                                                                       |                                                                                   |                                                                                     |                 |
| Connectors                | Power         | 2-pin terminal block, PoE                                                                 |                                                                                   |                                                                                     |                 |
|                           | Ethernet      | Ethernet (10/100 Base-T), RJ-45 connector                                                 |                                                                                   |                                                                                     |                 |
|                           | Audio         | 1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)                                 |                                                                                   |                                                                                     |                 |
|                           | Digital I/O   | 3-pin terminal block, pitch 2.5 mm/0.1"                                                   |                                                                                   |                                                                                     |                 |
|                           | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>* UHS-II card type is not supported. |                                                                                   |                                                                                     |                 |
| General                   |               |                                                                                           |                                                                                   |                                                                                     |                 |
| Environment               | Star-up       | -20 °C ~ 60 °C (-4 °F ~ 140 °F)                                                           | -20 °C ~ 50 °C (-4 °F ~ 122 °F)                                                   | -20 °C ~ 60 °C (-4 °F ~ 140 °F)                                                     |                 |
| Temperature               | Operation     | -30 °C ~ 60 °C (-22 °F ~ 140 °F)                                                          |                                                                                   | -30 °C ~ 60 °C (-22 °F ~ 140 °F)                                                    |                 |
| Humidity                  |               | 10% ~ 90% (no condensation)                                                               |                                                                                   |                                                                                     |                 |
| Power Source              |               | 12V DC / 24V AC / PoE (IEEE802.3af)                                                       |                                                                                   | 12V DC / PoE+ (IEEE 802.3at)                                                        |                 |
| Max. Power Consumption    |               | 12.3 W                                                                                    | 12.9 W                                                                            | 18 W                                                                                |                 |
| Regulatory                |               | CE, FCC, RCM, RoHS compliant                                                              |                                                                                   | CE, FCC, LVD, RoHS compliant                                                        |                 |
| Dimensions                |               | ø 121.8 x 406 mm (4.79" x 15.98")                                                         | ø128.64 x 406 mm (5.06" x 15.98")                                                 | Ø292.75 x 95 x 95 mm (11.53" x 3.74" x 3.74")                                       |                 |
| Weight                    |               | 2.04 kg (4.50 lb)                                                                         | 2.44 kg (5.38 lb)                                                                 | 1.26 kg (2.77 lb)                                                                   |                 |
| Ingress Protection        |               | IP67                                                                                      |                                                                                   |                                                                                     |                 |
| Vandal Resistance         |               | IK10 for metal casing                                                                     |                                                                                   |                                                                                     |                 |

Note: Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Vandal Proof Dome Specifications (Part 1)

|                         |               | GV-VD2712                                                                                | GV-VD4712                                                                                | GV-VD4711                                                                           | GV-VD5711                    |
|-------------------------|---------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|
|                         |               |         |                                                                                          |  |                              |
| Camera                  |               |                                                                                          |                                                                                          |                                                                                     |                              |
| Image Sensor            |               | 1/2.8" progressive scan super low lux CMOS                                               | 1/3" progressive scan super low lux CMOS                                                 |                                                                                     | 1/1.8" progressive scan CMOS |
| Picture Elements        |               | 1920 (H) x 1080 (V)                                                                      | 2592 (H) x 1520 (V)                                                                      |                                                                                     | 2592 (H) x 1944 (V)          |
| Minimum Illumination    | Color         | 0.005 Lux                                                                                | 0.03 Lux                                                                                 | 0.04 Lux                                                                            |                              |
|                         | B/W           | 0.004 Lux                                                                                | 0.02 Lux                                                                                 | 0.03 Lux                                                                            |                              |
|                         | IR ON         | 0 Lux                                                                                    |                                                                                          |                                                                                     |                              |
| Shutter Speed           |               | Auto, Manual (1/5 ~ 1/16000 sec)                                                         | Auto, Manual (1/5 ~ 1/8000 sec)                                                          |                                                                                     |                              |
| White Balance           |               | Auto, Manual (2800K ~ 8500K)                                                             |                                                                                          |                                                                                     |                              |
| Gain Control            |               | Automatic                                                                                |                                                                                          |                                                                                     |                              |
| S/N Ratio               |               | 56 dB                                                                                    | 50 dB                                                                                    | 46 dB                                                                               |                              |
| WDR                     |               | WDR Pro                                                                                  |                                                                                          | Yes                                                                                 |                              |
| Dynamic Range           |               | Up to 130 dB                                                                             | Up to 120 dB                                                                             | Up to 72 dB                                                                         |                              |
| Operation               |               |                                                                                          |                                                                                          |                                                                                     |                              |
| Video Compression       |               | H.265, H.264, MJPEG                                                                      |                                                                                          |                                                                                     |                              |
| Video Streaming         |               | Triple streams                                                                           |                                                                                          |                                                                                     |                              |
| Frame Rate              |               | 30 fps at 1920 x 1080                                                                    | 30 fps at 2048 x 1520                                                                    | 20 fps at 2592 x 1520,<br>24 fps at 2560 x 1440,<br>30 fps at 2048 x 1520           | 30 fps at 2592 x 1944        |
| Audio Compression       |               | G.711                                                                                    |                                                                                          |                                                                                     |                              |
| Audio Support           |               | Two-way Audio (external microphone and speaker required)                                 |                                                                                          |                                                                                     |                              |
| Sensor Input            |               | 1 Input (Dry Contact)                                                                    |                                                                                          |                                                                                     |                              |
| Alarm Output            |               | 1 Digital output (200mA 5V DC)                                                           |                                                                                          |                                                                                     |                              |
| Optical Lens            |               |                                                                                          |                                                                                          |                                                                                     |                              |
| Day/Night               |               | Yes (with removable IR-cut filter)                                                       |                                                                                          |                                                                                     |                              |
| Lens Type               |               | Motorized Varifocal Lens                                                                 |                                                                                          |                                                                                     |                              |
| Focal Length            |               | 2.8 ~ 12 mm                                                                              | 2.8 ~ 12 mm                                                                              | 4 ~ 8 mm                                                                            |                              |
| Maximum Aperture        |               | F/1.2                                                                                    | F/1.4                                                                                    | F/1.7                                                                               | F/1.65                       |
| Mount                   |               | Ø14 mm                                                                                   |                                                                                          |                                                                                     |                              |
| Image Format            |               | 1/2.7"                                                                                   |                                                                                          | 1/1.8"                                                                              |                              |
| Horizontal FOV          |               | 110° ~ 38°                                                                               | 90° ~ 35°                                                                                | 95° ~ 36°                                                                           | 90° ~ 48°                    |
| Operation               | Focus         | Auto Focus                                                                               |                                                                                          |                                                                                     |                              |
|                         | Zoom          | 4.3x optical zoom                                                                        |                                                                                          | 2x Optical zoom                                                                     |                              |
|                         | Iris          | P-Iris                                                                                   |                                                                                          |                                                                                     |                              |
| IR LED Quantity         |               | 4 IR LEDs                                                                                | 6 IR LEDs                                                                                |                                                                                     |                              |
| Max. IR Distance        |               | 30 m (100 ft)                                                                            |                                                                                          |                                                                                     |                              |
| Mechanical              |               |                                                                                          |                                                                                          |                                                                                     |                              |
| Camera Angle Adjustment | Pan           | 0° ~ 350°                                                                                | -90° ~ 90°                                                                               |                                                                                     |                              |
|                         | Tilt          | 0° ~ 75°                                                                                 | 0° ~ 85°                                                                                 |                                                                                     |                              |
|                         | Rotate        | 0° ~ 340°                                                                                | 0° ~ 350°                                                                                |                                                                                     |                              |
| 3-axis Mechanism        |               | Yes                                                                                      |                                                                                          |                                                                                     |                              |
| Temperature Detector    |               | Yes                                                                                      |                                                                                          |                                                                                     |                              |
| Connectors              | Power         | 2-pin terminal block, PoE                                                                |                                                                                          |                                                                                     |                              |
|                         | Ethernet      | Ethernet (10/100 Base-T), RJ-45 connector                                                |                                                                                          |                                                                                     |                              |
|                         | Audio         | 1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)                                |                                                                                          |                                                                                     |                              |
|                         | Digital I/O   | I/O Wires                                                                                | 3-pin terminal block, pitch 2.5 mm/0.1"                                                  |                                                                                     |                              |
|                         | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported. | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported. |                                                                                     |                              |
|                         | TV-Out        | BNC connector (640 x 480 resolution)                                                     |                                                                                          |                                                                                     |                              |
| LED Indicator           |               | 2 LEDs: Power, Status                                                                    |                                                                                          |                                                                                     |                              |
| General                 |               |                                                                                          |                                                                                          |                                                                                     |                              |
| Environment Temperature |               | -20 °C ~ 60 °C (-4 °F ~ 140 °F)                                                          | -20 °C ~ 50 °C (-4 °F ~ 122 °F)                                                          |                                                                                     |                              |
| Heat On                 |               | N/A                                                                                      |                                                                                          |                                                                                     |                              |
| Fan                     |               | N/A                                                                                      |                                                                                          |                                                                                     |                              |
| Humidity                |               | 10% to 90% (no condensation)                                                             |                                                                                          |                                                                                     |                              |
| Power Source            |               | 12V DC / PoE (IEEE 802.3af)                                                              | 12V DC / 24V AC / PoE (IEEE 802.3at)                                                     |                                                                                     |                              |
| Max. Power Consumption  |               | 8.64 W                                                                                   | 8.16 W                                                                                   | 25.5 W                                                                              |                              |
| Regulatory              |               | CE, FCC, RCM, LVD, RoHS compliant                                                        | CE, FCC, RCM, RoHS compliant                                                             |                                                                                     |                              |
| Dimensions              |               | ø160 x 108.4 mm (6.2" x 4.27")                                                           | ø176.5 x 118 mm (6.9" x 4.6")                                                            |                                                                                     |                              |
| Weight                  |               | 1.15 kg (2.54 lb)                                                                        | 1.83 kg (4.03 lb)                                                                        |                                                                                     |                              |
| Ingress Protection      |               | IP67                                                                                     |                                                                                          |                                                                                     |                              |
| Vandal Resistance       |               | IK10 for metal casing                                                                    | IK10+                                                                                    |                                                                                     |                              |

**Note:**

1. The TV-Out function only works in 640x480 resolution. For TV-Out to work properly, you must set the resolution to 1280x1024 or lower. If both streams are enabled, the Sub Stream must be set to 640x480.
2. Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Vandal Proof Dome Specifications

|                           |               | GV-VD2702                                                                                | GV-VD4702                                                                 |
|---------------------------|---------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                           |               |         |                                                                           |
| Camera                    |               |                                                                                          |                                                                           |
| Image Sensor              |               | 1/1.8" progressive scan super low lux CMOS                                               | 1/3" progressive scan super low lux CMOS                                  |
| Picture Elements          |               | 1920 (H) x 1080 (V)                                                                      | 2592 (H) x 1520 (V)                                                       |
| Minimum Illumination      | Color         | 0.005 Lux                                                                                | 0.03 Lux                                                                  |
|                           | B/W           | 0.004 Lux                                                                                | 0.02 Lux                                                                  |
|                           | IR ON         | 0 Lux                                                                                    |                                                                           |
| Shutter Speed             |               | Auto, Manual (1/5 ~ 1/16000 sec)                                                         | Auto, Manual (1/5 ~ 1/8000 sec)                                           |
| White Balance             |               | Auto, Manual (2800K ~ 8500K)                                                             |                                                                           |
| Gain Control              |               | Automatic                                                                                |                                                                           |
| S/N Ratio                 |               | 56 dB                                                                                    | 50 dB                                                                     |
| WDR Pro (with WDR sensor) |               | Yes                                                                                      |                                                                           |
| Dynamic Range             |               | Up to 130 dB                                                                             | Up to 120 dB                                                              |
| Operation                 |               |                                                                                          |                                                                           |
| Video Compression         |               | H.265, H.264, MJPEG                                                                      |                                                                           |
| Video Streaming           |               | Stream 1 from H.265 or H.264                                                             |                                                                           |
|                           |               | Stream 2 from H.265, H.264 or MJPEG                                                      |                                                                           |
|                           |               | Stream 3 from H.265, H.264 or MJPEG                                                      |                                                                           |
| Frame Rate                |               | 30 fps at 1920 x 1080                                                                    | 20 fps at 2592 x 1520,<br>24 fps at 2560 x 1440,<br>30 fps at 2048 x 1520 |
| Audio Compression         |               | G.711                                                                                    |                                                                           |
| Audio Support             |               | Two-way Audio (external microphone and speaker required)                                 |                                                                           |
| Sensor Input              |               | 1 Input (Dry Contact)                                                                    |                                                                           |
| Alarm Output              |               | 1 Output (200mA 5V DC)                                                                   |                                                                           |
| Optical Lens              |               |                                                                                          |                                                                           |
| Day/Night                 |               | Yes (with removable IR-cut filter)                                                       |                                                                           |
| Lens Type                 |               | Varifocal Lens                                                                           |                                                                           |
| Focal Length              |               | 2.8 ~ 12 mm                                                                              |                                                                           |
| Maximum Aperture          |               | F/1.7                                                                                    |                                                                           |
| Mount                     |               | Ø14 mm                                                                                   |                                                                           |
| Image Format              |               | 1/2.7"                                                                                   |                                                                           |
| Horizontal FOV            |               | 110° ~ 38°                                                                               | 102° ~ 36°                                                                |
| Operation                 | Focus         | Manual (w/lock)                                                                          |                                                                           |
|                           | Zoom          | Manual (w/lock)                                                                          |                                                                           |
|                           | Iris          | P-Iris                                                                                   |                                                                           |
| IR LED Quantity           |               | 4 IR LEDs                                                                                |                                                                           |
| Max. IR Distance          |               | 30 m (100 ft)                                                                            |                                                                           |
| Mechanical                |               |                                                                                          |                                                                           |
| Camera Angle Adjustment   | Pan           | 0° ~ 350°                                                                                |                                                                           |
|                           | Tilt          | 0° ~ 75°                                                                                 |                                                                           |
|                           | Rotate        | 0° ~ 340°                                                                                |                                                                           |
| 3-axis Mechanism          |               | Yes                                                                                      |                                                                           |
| Temperature Detector      |               | Yes                                                                                      |                                                                           |
| Connectors                | Power         | 2-pin terminal block (DC 12V, 3A), PoE                                                   |                                                                           |
|                           | Ethernet      | Ethernet (10/100 Base-T), RJ-45 connector                                                |                                                                           |
|                           | Audio         | 1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)                                |                                                                           |
|                           | Digital I/O   | I/O wires                                                                                |                                                                           |
|                           | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported. |                                                                           |
|                           | TV-Out        | BNC connector (640 x 480 resolution)                                                     |                                                                           |
| LED Indicator             |               | 2 LEDs: Power, Status                                                                    |                                                                           |
| General                   |               |                                                                                          |                                                                           |
| Environment Temperature   | Start-up      | -20 °C ~ 60 °C (-4 °F ~ 140 °F)                                                          |                                                                           |
|                           | Operation     | -30 °C ~ 60 °C (-22 °F ~ 140 °F)                                                         |                                                                           |
| Humidity                  |               | 10% ~ 90% (no condensation)                                                              |                                                                           |
| Power Source              |               | 12V DC / PoE (IEEE 802.3af)                                                              |                                                                           |
| Max. Power Consumption    |               | 8.64 W                                                                                   |                                                                           |
| Regulatory                |               | CE, FCC, RCM, LVD, RoHS compliant                                                        |                                                                           |
| Dimensions                |               | ø160 x 108.4 mm (ø 6.2" x 4.27")                                                         |                                                                           |
| Weight                    |               | 1.15 kg (2.54 lb)                                                                        |                                                                           |
| Ingress Protection        |               | IP67                                                                                     |                                                                           |
| Vandal Resistance         |               | IK10 for metal casing                                                                    |                                                                           |

### Note:

- The TV-Out function only works in 640x480 resolution. For TV-Out to work properly, you must set the resolution to 1280x1024 or lower. If both streams are enabled, the Sub Stream must be set to 640x480.
- Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Motorized IR IP Dome Specifications

|                           |               |                                                                                          |  |
|---------------------------|---------------|------------------------------------------------------------------------------------------|--|
|                           |               | GV-MD8710                                                                                |  |
|                           |               |         |  |
| Camera                    |               |                                                                                          |  |
| Image Sensor              |               | 1/2" progressive scan super low lux CMOS                                                 |  |
| Picture Elements          |               | 3840 (H) x 2160(V)                                                                       |  |
| Minimum Illumination      | Color         | 0.04 Lux                                                                                 |  |
|                           | B/W           | 0.03 Lux                                                                                 |  |
|                           | IR ON         | 0 Lux                                                                                    |  |
| Shutter Speed             |               | Auto, Manual (1/5 ~ 1/16000 sec)                                                         |  |
| White Balance             |               | Auto, Manual (2800K ~ 8500K)                                                             |  |
| Gain Control              |               | Automatic                                                                                |  |
| S/N Ratio                 |               | 52 dB                                                                                    |  |
| WDR Pro (with WDR sensor) |               | Yes                                                                                      |  |
| Dynamic Range             |               | Up to 120 dB                                                                             |  |
| Operation                 |               |                                                                                          |  |
| Video Compression         |               | H.265, H.264, MJPEG                                                                      |  |
| Video Streaming           |               | Stream 1 from H.265 or H.264                                                             |  |
|                           |               | Stream 2 from H.265, H.264 or MJPEG                                                      |  |
|                           |               | Stream 3 from H.265, H.264 or MJPEG                                                      |  |
| Frame Rate                |               | 30 fps at 3840 x 2160                                                                    |  |
| Audio Compression         |               | G.711                                                                                    |  |
| Audio Support             |               | Two-way Audio (external microphone and speaker required)                                 |  |
| Sensor Input              |               | 1 Input (Dry Contact)                                                                    |  |
| Alarm Output              |               | 1 Output (200 mA 5 V DC)                                                                 |  |
| Optical Lens              |               |                                                                                          |  |
| Day/Night                 |               | Yes (with removable IR-cut filter)                                                       |  |
| Lens Type                 |               | Motorized varifocal lens                                                                 |  |
| Focal Length              |               | 4 ~ 8 mm                                                                                 |  |
| Maximum Aperture          |               | F/1.44                                                                                   |  |
| Mount                     |               | Ø14 mm                                                                                   |  |
| Image Format              |               | 1/2.5"                                                                                   |  |
| Horizontal FOV            |               | 112° ~ 61°                                                                               |  |
| Operation                 | Focus         | Automatic                                                                                |  |
|                           | Zoom          | 2X optional zoom                                                                         |  |
|                           | Iris          | P-Iris                                                                                   |  |
| IR LED Quantity           |               | 4 IR LEDs                                                                                |  |
| Max. IR Distance          |               | 30 m (100 ft)                                                                            |  |
| Mechanical                |               |                                                                                          |  |
| Camera Angle Adjustment   | Pan           | 0° ~ 350°                                                                                |  |
|                           | Tilt          | 0° ~ 75°                                                                                 |  |
|                           | Rotate        | 0° ~ 340°                                                                                |  |
| 3-axis Mechanism          |               | Yes                                                                                      |  |
| Temperature Detector      |               | Yes                                                                                      |  |
| Connectors                | Power         | 2-pin terminal block (DC 12V, 1.25 A), PoE                                               |  |
|                           | Ethernet      | Ethernet (10/100 Base-T), RJ-45 connector                                                |  |
|                           | Audio         | 1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)                                |  |
|                           | Digital I/O   | I/O wires                                                                                |  |
|                           | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported. |  |
| LED Indicator             |               | 2 LEDs: Power, Status                                                                    |  |
| General                   |               |                                                                                          |  |
| Environment Temperature   | Start-up      | 0 °C ~ 50 °C (32 °F ~ 122 °F)                                                            |  |
|                           | Operation     |                                                                                          |  |
| Humidity                  |               | 10% ~ 90% (no condensation)                                                              |  |
| Power Source              |               | 12V DC / PoE (IEEE 802.3af)                                                              |  |
| Max. Power Consumption    |               | 9.5 W                                                                                    |  |
| Regulatory                |               | CE, FCC, LVD, RoHS compliant                                                             |  |
| Dimensions                |               | ø125 x 99.5 mm (ø 4.92" x 3.92")                                                         |  |
| Weight                    |               | 500 g (1.10 lb)                                                                          |  |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Mini Fixed Dome Specifications (Part 1)

|                           |                     | GV-MFD2700 Series                                                                       |        | GV-MFD4700 Series                        |        |
|---------------------------|---------------------|-----------------------------------------------------------------------------------------|--------|------------------------------------------|--------|
|                           |                     |        |        |                                          |        |
|                           |                     |                                                                                         |        |                                          |        |
| Camera                    |                     |                                                                                         |        |                                          |        |
| Image Sensor              |                     | 1/2.8" progressive scan super low lux CMOS                                              |        | 1/3" progressive scan super low lux CMOS |        |
| Picture Elements          |                     | 1920 (H) x 1080 (V)                                                                     |        | 2592 (H) x 1520 (V)                      |        |
| Minimum Illumination      | Color               | 0.005 Lux                                                                               |        | 0.03 Lux                                 |        |
|                           | B/W                 | 0.004 Lux                                                                               |        | 0.02 Lux                                 |        |
|                           | IR ON               | 0 Lux                                                                                   |        |                                          |        |
| Shutter Speed             |                     | Auto, Manual (1/5 ~ 1/16000 sec)                                                        |        |                                          |        |
| White Balance             |                     | Auto, Manual (2800K ~ 8500K)                                                            |        |                                          |        |
| Gain Control              |                     | Automatic                                                                               |        |                                          |        |
| S/N Ratio                 |                     | 56 dB                                                                                   |        | 50 dB                                    |        |
| WDR Pro (with WDR Sensor) |                     | Yes                                                                                     |        |                                          |        |
| Dynamic Range             |                     | Up to 130 dB                                                                            |        | Up to 120 dB                             |        |
| Operation                 |                     |                                                                                         |        |                                          |        |
| Video Compression         |                     | H.265, H.264, MJPEG                                                                     |        |                                          |        |
| Video Streaming           |                     | Stream 1 from H.265 or H.264                                                            |        |                                          |        |
|                           |                     | Stream 2 and 3 from H.265, H.264 or MJPEG                                               |        |                                          |        |
| Frame Rate                |                     | 50 Hz: 25 fps at 1920 x 1080                                                            |        | 20 fps at 2592 x 1520                    |        |
|                           |                     | 60 Hz: 30 fps at 1920 x 1080                                                            |        | 24 fps at 2560 x 1440                    |        |
|                           |                     |                                                                                         |        | 30 fps at 2048 x 1520                    |        |
| Audio Compression         |                     | G.711                                                                                   |        |                                          |        |
| Audio Support             |                     | Two-way Audio (external speaker required)                                               |        |                                          |        |
| Optical Lens              |                     |                                                                                         |        |                                          |        |
| Day/Night                 |                     | Yes (with removable IR-cut filter)                                                      |        |                                          |        |
| Lens Type                 |                     | Fixed                                                                                   |        |                                          |        |
| Focal Length              |                     | MFD2700-0F                                                                              | 2.8 mm | MFD4700-0F                               | 2.8 mm |
|                           |                     | MFD2700-2F                                                                              | 3.8 mm | MFD4700-2F                               | 3.8 mm |
|                           |                     | MFD2700-6F                                                                              | 2.3 mm | MFD4700-6F                               | 2.3 mm |
| Maximum Aperture          |                     | MFD2700-0F                                                                              | F/2.0  | MFD4700-0F                               | F/2.0  |
|                           |                     | MFD2700-2F                                                                              | F/1.8  | MFD4700-2F                               | F/1.8  |
|                           |                     | MFD2700-6F                                                                              | F/2.2  | MFD4700-6F                               | F/2.2  |
| Mount                     |                     | M12, Pitch 0.5 mm                                                                       |        |                                          |        |
| Image Format              |                     | 1/2.7"                                                                                  |        |                                          |        |
| Horizontal FOV            |                     | MFD2700-0F                                                                              | 100°   | MFD4700-0F                               | 96°    |
|                           |                     | MFD2700-2F                                                                              | 72°    | MFD4700-2F                               | 72°    |
|                           |                     | MFD2700-6F                                                                              | 140°   | MFD4700-6F                               | 129°   |
| Operation                 | Focus / Zoom / Iris | Fixed                                                                                   |        |                                          |        |
| Mechanical                |                     |                                                                                         |        |                                          |        |
| Camera Angle Adjustment   | Pan                 | -45° ~ 45°                                                                              |        |                                          |        |
|                           | Tilt                | 0° ~ 70°                                                                                |        |                                          |        |
|                           | Rotate              | 0° ~ 360°                                                                               |        |                                          |        |
| Temperature Detector      |                     | Yes                                                                                     |        |                                          |        |
| Connectors                | Power               | PoE, 2-pin terminal block                                                               |        |                                          |        |
|                           | Ethernet            | Ethernet (10/100 Base-T), RJ-45 connector                                               |        |                                          |        |
|                           | Audio               | 1 In (built-in or external microphone) 1 Out (3.5 mm stereo jack)                       |        |                                          |        |
|                           | USB                 | GV-WiFi adapter or USB hard drive                                                       |        |                                          |        |
|                           | Local Storage       | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported |        |                                          |        |
| LED Indicator             |                     | 2 LEDs: Power, Status                                                                   |        |                                          |        |
| Max. IR Distance          |                     | 20 m (65 ft)                                                                            |        |                                          |        |
| General                   |                     |                                                                                         |        |                                          |        |
| Environment Temperature   |                     | 0 °C ~ 50 °C (32 °F ~ 122 °F)                                                           |        |                                          |        |
| Humidity                  |                     | 10% to 90% (no condensation)                                                            |        |                                          |        |
| Power Source              |                     | 12V DC / PoE (IEEE 802.3af)                                                             |        |                                          |        |
| Max. Power Consumption    |                     | 6.5 W                                                                                   |        | 7.5 W                                    |        |
| Regulatory                |                     | CE, FCC, RCM, LVD, RoHS compliant                                                       |        |                                          |        |
| Dimensions                |                     | ø 110 x 72.83 mm (ø 4.33" x 2.86")                                                      |        |                                          |        |
| Weight                    |                     | 200 g (0.44 lb)                                                                         |        |                                          |        |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Mini Fixed Dome Specifications (Part 2)

| GV-TFD4700                                                                        |                     |                                                                                               |
|-----------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------|
|  |                     |                                                                                               |
| <b>Camera</b>                                                                     |                     |                                                                                               |
| Image Sensor                                                                      |                     | 1/3" progressive scan super low lux CMOS                                                      |
| Picture Elements                                                                  |                     | 2688 (H) x 1520 (V)                                                                           |
| Minimum Illumination                                                              | Color               | 0.01 Lux (F2.0, AGC ON)                                                                       |
|                                                                                   | B/W                 | 0 Lux                                                                                         |
|                                                                                   | IR ON               | N/A                                                                                           |
| Shutter Speed                                                                     |                     | Auto / Manual (1 ~ 1/100000 sec)                                                              |
| White Balance                                                                     |                     | Auto / Manual                                                                                 |
| Gain Control                                                                      |                     | Auto / Manual                                                                                 |
| S/N Ratio                                                                         |                     | 52 dB                                                                                         |
| WDR Pro (with WDR Sensor)                                                         |                     | Yes                                                                                           |
| Dynamic Range                                                                     |                     | 120 dB                                                                                        |
| <b>Operation</b>                                                                  |                     |                                                                                               |
| Video Compression                                                                 |                     | H.265, H.264, MJPEG                                                                           |
| Video Streaming                                                                   |                     | Triple streams from H.265, H.264 or MJPEG                                                     |
| Frame Rate                                                                        |                     | 30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 1920 x 1080 (60 / 50 Hz)              |
| Audio Compression                                                                 |                     | G.711                                                                                         |
| Audio Support                                                                     |                     | Two-way Audio (external speaker required)                                                     |
| <b>Optical Lens</b>                                                               |                     |                                                                                               |
| Day/Night                                                                         |                     | Yes (with removable IR-cut filter)                                                            |
| Lens Type                                                                         |                     | Fixed                                                                                         |
| Focal Length                                                                      |                     | 2.8 mm                                                                                        |
| Maximum Aperture                                                                  |                     | F/2.0                                                                                         |
| Mount                                                                             |                     | M12                                                                                           |
| Image Format                                                                      |                     | 1/3"                                                                                          |
| Horizontal FOV                                                                    |                     | 95°                                                                                           |
| Operation                                                                         | Focus / Zoom / Iris | Fixed                                                                                         |
| <b>Mechanical</b>                                                                 |                     |                                                                                               |
| Camera Angle Adjustment                                                           | Pan                 | 3° ~ 360°                                                                                     |
|                                                                                   | Tilt                | 0° ~ 68°                                                                                      |
|                                                                                   | Rotate              | 3° ~ 360°                                                                                     |
| Temperature Detector                                                              |                     | No                                                                                            |
| Connectors                                                                        | Power               | 2-pin terminal block (DC 12V, 1.25 A), PoE                                                    |
|                                                                                   | Ethernet            | RJ-45 connector                                                                               |
|                                                                                   | Audio               | 1 in (built-in microphone)<br>4-pin terminal block pitch 2.5 mm (0.1") (Audio In & Audio Out) |
|                                                                                   | Digital I/O         | 4-pin terminal block pitch 2.5 mm (0.1")                                                      |
|                                                                                   | USB                 | N/A                                                                                           |
|                                                                                   | Local Storage       | Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.   |
| LED Indicator                                                                     |                     | N/A                                                                                           |
| Max. IR Distance                                                                  |                     | 30 m (100 ft)                                                                                 |
| <b>General</b>                                                                    |                     |                                                                                               |
| Environment Temperature                                                           |                     | -35°C ~ 60°C (-31°F ~ 140°F)                                                                  |
| Humidity                                                                          |                     | 0% ~ 95% (no condensation)                                                                    |
| Power Source                                                                      |                     | 12V DC / PoE (IEEE802.3af)                                                                    |
| Max. Power Consumption                                                            |                     | 5.5 W                                                                                         |
| Regulatory                                                                        |                     | FCC, CE, RoHS compliant                                                                       |
| Dimensions                                                                        |                     | Ø 108.6 x 61.8mm (Ø4.28" x 2.43")                                                             |
| Weight                                                                            |                     | 0.22 kg (0.49 lb)                                                                             |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 1)

|                         |               | GV-EBL2101                                                                        | GV-EBL4702 Series                                                                        |        | GV-EBL4711                                                                          |
|-------------------------|---------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
|                         |               |  |         |        |  |
| Camera                  |               |                                                                                   |                                                                                          |        |                                                                                     |
| Image Sensor            |               | 1/2.8" progressive scan super low lux CMOS                                        | 1/3" progressive scan super low lux CMOS                                                 |        |                                                                                     |
| Picture Elements        |               | 1920 (H) x 1080 (V)                                                               | 2592 (H) x 1520 (V)                                                                      |        |                                                                                     |
| Minimum Illumination    | Color         | 0.005 Lux                                                                         | 0.03 Lux                                                                                 |        |                                                                                     |
|                         | B/W           | 0.004 Lux                                                                         | 0.02 Lux                                                                                 |        |                                                                                     |
|                         | IR ON         | 0 Lux                                                                             | 0 Lux                                                                                    |        |                                                                                     |
| Shutter Speed           |               | Auto, Manual (1/30 ~ 1/16000 sec)                                                 | 0.004 Lux                                                                                |        |                                                                                     |
| White Balance           |               | Auto, Manual (2800K ~ 8500K)                                                      | 0 Lux                                                                                    |        |                                                                                     |
| Gain Control            |               | Automatic                                                                         |                                                                                          |        |                                                                                     |
| S/N Ratio               |               | 56 dB                                                                             | 50 dB                                                                                    |        |                                                                                     |
| WDR                     |               | Yes                                                                               | WDR Pro                                                                                  |        |                                                                                     |
| Dynamic Range           |               | Up to 72 dB                                                                       | Up to 120 dB                                                                             |        |                                                                                     |
| Operation               |               |                                                                                   |                                                                                          |        |                                                                                     |
| Video Compression       |               | H.264, MJPEG                                                                      | H.265, H.264, MJPEG                                                                      |        |                                                                                     |
| Video Streaming         |               | Dual streams                                                                      | Triple streams                                                                           |        |                                                                                     |
| Frame Rate              |               | 30 fps at 1920 x 1080                                                             | 30 fps at 2048 x 1520                                                                    |        |                                                                                     |
| Audio Support           |               | N/A                                                                               | N/A                                                                                      |        |                                                                                     |
| Optical Lens            |               |                                                                                   |                                                                                          |        |                                                                                     |
| Day/Night               |               | Yes (with removable IR-cut filter)                                                |                                                                                          |        |                                                                                     |
| Lens Type               |               | Varifocal                                                                         | Fixed                                                                                    |        | Motorized varifocal                                                                 |
| Focal Length            | 3 ~ 9 mm      | 3 ~ 9 mm                                                                          | GV-EBL4702-1F                                                                            | 6 mm   | 2.7 ~ 12 mm                                                                         |
|                         |               |                                                                                   | GV-EBL4702-2F                                                                            | 3.8 mm |                                                                                     |
|                         |               |                                                                                   | GV-EBL4702-3F                                                                            | 2.8 mm |                                                                                     |
| Maximum Aperture        | F/1.7         | F/1.7                                                                             | GV-EBL4702-1F                                                                            | F/2.0  | F/1.6                                                                               |
|                         |               |                                                                                   | GV-EBL4702-2F                                                                            | F/1.8  |                                                                                     |
|                         |               |                                                                                   | GV-EBL4702-3F                                                                            | F/2.0  |                                                                                     |
| Mount                   |               | Ø14 mm                                                                            | Ø12 mm                                                                                   |        | Ø14 mm                                                                              |
| Image Format            |               | 1/2.7"                                                                            | 1/2.7"                                                                                   |        |                                                                                     |
| Horizontal FOV          | 102° ~ 40°    | 102° ~ 40°                                                                        | GV-EBL4702-1F                                                                            | 51°    | 103° ~ 37°                                                                          |
|                         |               |                                                                                   | GV-EBL4702-2F                                                                            | 72°    |                                                                                     |
|                         |               |                                                                                   | GV-EBL4702-3F                                                                            | 96°    |                                                                                     |
| Operation               | Focus         | Manual (w/lock)                                                                   | Fixed                                                                                    |        | Auto                                                                                |
|                         | Zoom          | Manual (w/lock)                                                                   |                                                                                          |        | 4.4x optical zoom                                                                   |
|                         | Iris          | P-Iris                                                                            |                                                                                          |        | P-Iris                                                                              |
| IR LED Quantity         |               | 24 IR LEDs                                                                        | 6 IR LEDs                                                                                |        |                                                                                     |
| Max. IR Distance        |               | 75 m (250 ft)                                                                     | 30 m (100 ft)                                                                            |        |                                                                                     |
| Mechanical              |               |                                                                                   |                                                                                          |        |                                                                                     |
| Camera Angle Adjustment | Pan           | 0° ~ 360°                                                                         |                                                                                          |        |                                                                                     |
|                         | Tilt          | 90° ~ 180                                                                         |                                                                                          |        |                                                                                     |
| Connectors              | Power         | 2-pin terminal block, PoE                                                         |                                                                                          |        |                                                                                     |
|                         | Ethernet      | Ethernet (10/100 Base-T), RJ-45 cable                                             |                                                                                          |        |                                                                                     |
|                         | Audio         | N/A                                                                               |                                                                                          |        |                                                                                     |
|                         | Local Storage | N/A                                                                               | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported. |        |                                                                                     |
| LED Indicator           |               | 4 LEDs: Link, ACT, Power, Status                                                  | 2 LEDs: Power, Status                                                                    |        |                                                                                     |
| General                 |               |                                                                                   |                                                                                          |        |                                                                                     |
| Environment             | Startup       | -20°C ~ 50°C (-4°F ~ 122°F)                                                       |                                                                                          |        | -20°C ~ 50°C (-4°F ~ 122°F)                                                         |
| Temperature             | Operation     | -30°C ~ 50°C (-22°F ~ 122°F)                                                      |                                                                                          |        |                                                                                     |
| Humidity                |               | 10% to 90% (no condensation)                                                      |                                                                                          |        |                                                                                     |
| Power Source            |               | 12V DC / PoE (IEEE 802.3af)                                                       |                                                                                          |        |                                                                                     |
| Max. Power Consumption  |               | 7.1 W                                                                             | 9.12 W                                                                                   |        | 13.12 W                                                                             |
| Regulatory              |               | CE, FCC, RCM, RoHS compliant                                                      |                                                                                          |        |                                                                                     |
| Dimensions (L X W X H)  |               | 142.14 x 77.72 x 102.75 mm<br>(5.6" x 3.06" x 4.05")                              | 129.54 x 80 x 102.75 mm (5.1" x 3.15" x 4.05")                                           |        | 144.14 x 77.72 x 102.75 mm<br>(5.67" x 3.06" x 4.05")                               |
| Weight                  |               | 810 g (1.79 lb)                                                                   | 825 g (1.81 lb)                                                                          |        | 880 g (1.94 lb)                                                                     |
| Ingress Protection      |               | IP67                                                                              |                                                                                          |        |                                                                                     |
| Vandal Resistance       |               | IK10 for metal casing                                                             |                                                                                          |        |                                                                                     |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 2)

|                         |               |  | GV-ABL2701 Series                                                                 | GV-ABL2703                                  | GV-TBL2703                            | GV-TBL2705                                                                             | GV-ABL2702                                                                             |
|-------------------------|---------------|--|-----------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                         |               |  |  |                                             |                                       |     |     |
| Camera                  |               |  |                                                                                   |                                             |                                       |                                                                                        |                                                                                        |
| Image Sensor            |               |  | 1/2.7" progressive scan low lux CMOS                                              | 1/2.7" progressive scan low lux CMOS        | 1/2.7" progressive scan low lux CMOS  | 1/2.7" progressive scan low lux CMOS                                                   | 1/2.8" progressive scan low lux CMOS                                                   |
| Picture Elements        |               |  | 1920 (H) x 1080 (V)                                                               | 1920 (H) x 1080 (V)                         | 1920 (H) x 1080 (V)                   | 1920 (H) x 1080 (V)                                                                    | 1920 (H) x 1080 (V)                                                                    |
| Minimum Illumination    | Color         |  | 0.01 Lux (F1.8, AGC ON)                                                           | 0.02 Lux (F2.0, AGC ON)                     |                                       | 0.01 Lux (F2.0, AGC ON)                                                                | 0.002 Lux (F1.6, AGC ON)                                                               |
|                         | B/W           |  | N/A                                                                               | N/A                                         | N/A                                   | N/A                                                                                    | N/A                                                                                    |
|                         | IR ON         |  | 0 Lux                                                                             | 0 Lux                                       | 0 Lux                                 | 0 Lux                                                                                  | 0 Lux                                                                                  |
| Shutter Speed           |               |  | Auto / Manual (1/6 ~ 1/100000 sec)                                                | Auto / Manual (1/6 ~ 1/100000 sec)          | Auto / Manual (1/6 ~ 1/100000 sec)    | Auto / Manual (1 ~ 1/100,000 sec)                                                      | Auto / Manual (1/6 ~ 1/100000 sec)                                                     |
| White Balance           |               |  | Auto / Manual                                                                     | Auto / Manual                               | Auto / Manual                         | Auto / Manual                                                                          | Auto / Manual                                                                          |
| Gain Control            |               |  | Auto / Manual                                                                     | Auto / Manual                               | Auto / Manual                         | Auto / Manual                                                                          | Auto / Manual                                                                          |
| S/N Ratio               |               |  | 52 dB                                                                             | 52 dB                                       | 52 dB                                 | 52 dB                                                                                  | 52 dB                                                                                  |
| WDR                     |               |  | Yes                                                                               | Yes                                         | Yes                                   | Yes                                                                                    | WDR Pro                                                                                |
| Dynamic Range           |               |  | Up to 72 dB                                                                       | Up to 72 dB                                 | Up to 72 dB                           | Up to 120 dB                                                                           | Up to 120 dB                                                                           |
| Operation               |               |  |                                                                                   |                                             |                                       |                                                                                        |                                                                                        |
| Video Compression       |               |  | H.265, H.264, MJPEG                                                               | H.265, H.264, MJPEG                         | H.265, H.264, MJPEG                   | H.265, H.264, MJPEG                                                                    | H.265, H.264, MJPEG                                                                    |
| Video Streaming         |               |  | Triple streams                                                                    | Triple streams                              | Triple streams                        | Dual streams                                                                           | Triple streams                                                                         |
| Frame Rate              |               |  | 25 fps at 1920 x 1080                                                             | 30 fps at 1920 x 1080                       | 30 fps at 1920 x 1080                 | 30 fps at 1920 x 1080                                                                  | 30 fps at 1920 x 1080                                                                  |
| Audio Compression       |               |  | N/A                                                                               | N/A                                         | N/A                                   | G.711                                                                                  | G.711                                                                                  |
| Audio Support           |               |  | N/A                                                                               | N/A                                         | N/A                                   | One-way Audio                                                                          | Two-way Audio (external microphone and speaker required)                               |
| Optical Lens            |               |  |                                                                                   |                                             |                                       |                                                                                        |                                                                                        |
| Day/Night               |               |  | Yes (with removable IR-cut filter)                                                | Yes (with removable IR-cut filter)          | Yes (with removable IR-cut filter)    | Yes (with removable IR-cut filter)                                                     | Yes (with removable IR-cut filter)                                                     |
| Lens Type               |               |  | Fixed                                                                             | Fixed                                       | Fixed                                 | Fixed                                                                                  | Varifocal                                                                              |
| Focal Length            |               |  | 0F / 1F<br>4 mm / 6 mm                                                            | 0F / 1F<br>4 mm / 6 mm                      | 4 mm / 6 mm                           | 4 mm                                                                                   | 2.8 ~ 12 mm                                                                            |
| Maximum Aperture        |               |  | 0F / 1F<br>F/1.8                                                                  | 0F / 1F<br>F/2.0                            | F/2.0                                 | F/2.0                                                                                  | F/1.6                                                                                  |
| Mount                   |               |  | M12                                                                               | M12                                         | M12                                   | M12                                                                                    | Ø14 mm                                                                                 |
| Image Format            |               |  | 0F / 1F<br>1/2.7"                                                                 | 0F / 1F<br>1/2.7"                           | 1/2.7"                                | 1/2.7"                                                                                 | 1/2.8"                                                                                 |
| Horizontal FOV          |               |  | 0F<br>90°                                                                         | 0F<br>86°                                   | 86°                                   | 83°                                                                                    | 92 ° ~ 34°                                                                             |
|                         |               |  | 1F<br>55°                                                                         | 1F<br>55°                                   | 55°                                   |                                                                                        |                                                                                        |
| Operation               | Focus         |  | Fixed                                                                             | Fixed                                       | Fixed                                 | Fixed                                                                                  | Manual (with lock)                                                                     |
|                         | Zoom          |  |                                                                                   |                                             |                                       |                                                                                        | Manual (with lock)                                                                     |
|                         | Iris          |  |                                                                                   |                                             |                                       |                                                                                        | Fixed                                                                                  |
| IR LED Quantity         |               |  | 1 IR LED                                                                          | 1 IR LED                                    | 1 IR LED                              | 1 IR LED                                                                               | 3 IR LEDs                                                                              |
| Max. IR Distance        |               |  | 30 m (100 ft)                                                                     | 30 m (100 ft)                               | 30 m (100 ft)                         | 30 m (100 ft)                                                                          | 50 m (165 ft)                                                                          |
| Mechanical              |               |  |                                                                                   |                                             |                                       |                                                                                        |                                                                                        |
| Camera Angle Adjustment | Pan           |  | 0° ~ 360°                                                                         | 0° ~ 360°                                   | 0° ~ 360°                             | 0° ~ 360°                                                                              | 0° ~ 360°                                                                              |
|                         | Tilt          |  | 0° ~ 90°                                                                          | 0° ~ 90°                                    | 0° ~ 90°                              | 0° ~ 90°                                                                               | 0° ~ 120°                                                                              |
|                         | Rotate        |  | 0° ~ 360°                                                                         | 0° ~ 360°                                   | 0° ~ 360°                             | 0° ~ 360°                                                                              | 0° ~ 360°                                                                              |
| Connectors              | Power         |  | DC Jack, PoE                                                                      | DC Jack, PoE                                | DC Jack, PoE                          | DC Jack, PoE                                                                           | DC Jack, PoE                                                                           |
|                         | Ethernet      |  | Ethernet (10/100 Base-T), RJ-45 cable                                             | Ethernet (10/100 Base-T), RJ-45 cable       | Ethernet (10/100 Base-T), RJ-45 cable | Ethernet (10/100 Base-T), RJ-45 cable                                                  | Ethernet (10/100 Base-T), RJ-45 cable                                                  |
|                         | Audio         |  | N/A                                                                               | N/A                                         | N/A                                   | 1 In (built-in microphone)                                                             | 1 In (Audio In Wire)<br>1 Out (Audio Out Wire)                                         |
|                         | Digital I/O   |  | N/A                                                                               | N/A                                         | N/A                                   | N/A                                                                                    | 4-pin terminal block, pitch 3.5 mm (0.14")                                             |
|                         | Local Storage |  | N/A                                                                               | N/A                                         | N/A                                   | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported. | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported. |
|                         | TV Out        |  | N/A                                                                               | N/A                                         | N/A                                   | N/A                                                                                    | N/A                                                                                    |
| General                 |               |  |                                                                                   |                                             |                                       |                                                                                        |                                                                                        |
| Environment Temperature | Startup       |  | -30°C ~ 60°C (-22°F ~ 140°F)                                                      | -30°C ~ 60°C (-22°F ~ 140°F)                | -30°C ~ 60°C (-22°F ~ 140°F)          | -30°C ~ 60°C (-22°F ~ 140°F)                                                           | -35°C ~ 60°C (-31°F ~ 140°F)                                                           |
|                         | Operation     |  |                                                                                   |                                             |                                       |                                                                                        |                                                                                        |
| Humidity                |               |  | 0% ~ 95% (no condensation)                                                        | 10% ~ 90% (no condensation)                 | 10% ~ 90% (no condensation)           | 10% ~ 90% (no condensation)                                                            | 0% ~ 95% (no condensation)                                                             |
| Power Source            |               |  | 12V DC / PoE (IEEE 802.3af)                                                       | 12V DC / PoE (IEEE 802.3af)                 | 12V DC / PoE (IEEE 802.3af)           | 12V DC / PoE (IEEE 802.3af)                                                            | 12V DC / PoE (IEEE 802.3af)                                                            |
| Max. Power Consumption  |               |  | 5 W                                                                               | 4.5 W                                       | 6.0 W                                 | 9 W                                                                                    |                                                                                        |
| Regulatory              |               |  | FCC, CE, RoHS compliant                                                           | FCC, CE, RoHS compliant                     | FCC, CE, RoHS compliant               | FCC, CE, RoHS compliant                                                                | FCC, CE, RoHS compliant                                                                |
| Dimensions (L X W X H)  |               |  | 162.9 × 62.4 × 62.7 mm (6.4" × 2.5" × 2.5")                                       | 162.9 × 62.4 × 62.7 mm (6.4" × 2.5" × 2.5") | 162 × 69 × 69 mm (6.4" × 2.7" × 2.7") | 162 × 69 × 69 mm (6.4" × 2.7" × 2.7")                                                  | 244 × 96 × 74 mm (9.6" × 3.8" × 2.9")                                                  |
| Weight                  |               |  | 0.25 kg (0.55 lb)                                                                 | 0.37 kg (0.81 lb)                           | 0.45 kg (0.99 lb)                     | 0.58 kg (1.28 lb)                                                                      |                                                                                        |
| Ingress Protection      |               |  | IP66                                                                              | IP67                                        | IP67                                  | IP67                                                                                   | IP67                                                                                   |
| Vandal Resistance       |               |  | N/A                                                                               | N/A                                         | N/A                                   | N/A                                                                                    | IK10 for metal casing                                                                  |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 3)

|                         |               |                                       | GV-ABL4701 Series                                                                 | GV-ABL4703                               | GV-TBL4703                                  | GV-TBL4705                                                                          | GV-TBL4700                                                                             |
|-------------------------|---------------|---------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                         |               |                                       |  |                                          |                                             |  |     |
| Camera                  |               |                                       |                                                                                   |                                          |                                             |                                                                                     |                                                                                        |
| Image Sensor            |               |                                       | 1/3" progressive scan super low lux CMOS                                          | 1/3" progressive scan super low lux CMOS | 1/3" progressive scan super low lux CMOS    | 1/3" progressive scan super low lux CMOS                                            | 1/3" progressive scan super low lux CMOS                                               |
| Picture Elements        |               |                                       | 2592 (H) x 1520 (V)                                                               | 2592 (H) x 1520 (V)                      | 2592 (H) x 1520 (V)                         | 2688 (H) x 1520 (V)                                                                 | 2592 (H) x 1520 (V)                                                                    |
| Minimum Illumination    | Color         | 0.02 Lux (F1.8, AGC ON)               |                                                                                   | 0.03 Lux (F2.0, AGC ON)                  |                                             | 0.003 Lux (F1.6, AGC ON)                                                            |                                                                                        |
|                         | B/W           | N/A                                   |                                                                                   | N/A                                      |                                             | N/A                                                                                 |                                                                                        |
|                         | IR ON         | 0 Lux                                 |                                                                                   | 0 Lux                                    |                                             | 0 Lux                                                                               |                                                                                        |
| Shutter Speed           |               |                                       | Auto / Manual (1/6 ~ 1/100000 sec)                                                | Auto / Manual (1/6 ~ 1/100000 sec)       | Auto / Manual (1/6 ~ 1/100000 sec)          | Auto / Manual (1 ~ 1/100000 sec)                                                    | Auto / Manual (1/25 ~ 1/100000 sec)                                                    |
| White Balance           |               |                                       | Auto / Manual                                                                     | Auto / Manual                            | Auto / Manual                               | Auto / Manual                                                                       | Auto / Manual                                                                          |
| Gain Control            |               |                                       | Auto / Manual                                                                     | Auto / Manual                            | Auto / Manual                               | Auto / Manual                                                                       | Auto / Manual                                                                          |
| S/N Ratio               |               |                                       | 52 dB                                                                             | 52 dB                                    | 52 dB                                       | 56 dB                                                                               | 52 dB                                                                                  |
| WDR                     |               |                                       | Yes                                                                               | Yes                                      | Yes                                         | Yes                                                                                 | Yes                                                                                    |
| Dynamic Range           |               |                                       | Up to 72 dB                                                                       | Up to 72 dB                              | Up to 72 dB                                 | Up to 120 dB                                                                        | Up to 72 dB                                                                            |
| Operation               |               |                                       |                                                                                   |                                          |                                             |                                                                                     |                                                                                        |
| Video Compression       |               |                                       | H.265, H.264, MJPEG                                                               | H.265, H.264, MJPEG                      | H.265, H.264, MJPEG                         | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                    |
| Video Streaming         |               |                                       | Triple streams                                                                    | Triple streams                           | Triple streams                              | Dual streams                                                                        | Triple streams                                                                         |
| Frame Rate              |               |                                       | 20 fps at 2592 x 1520<br>25 fps at 2560 x 1440<br>30 fps at 2048 x 1520           | 20 fps at 2592 x 1520                    | 20 fps at 2592 x 1520                       | 30 fps at 2688 x 1520                                                               | 20 fps at 2592 x 1520                                                                  |
| Audio Compression       |               |                                       | N/A                                                                               | N/A                                      | N/A                                         | N/A                                                                                 | N/A                                                                                    |
| Audio Support           |               |                                       | N/A                                                                               | N/A                                      | N/A                                         | N/A                                                                                 | N/A                                                                                    |
| Optical Lens            |               |                                       |                                                                                   |                                          |                                             |                                                                                     |                                                                                        |
| Day/Night               |               |                                       | Yes (with removable IR-cut filter)                                                | Yes (with removable IR-cut filter)       | Yes (with removable IR-cut filter)          | Yes (with removable IR-cut filter)                                                  | Yes (with removable IR-cut filter)                                                     |
| Lens Type               |               |                                       | Fixed                                                                             | Fixed                                    | Fixed                                       | Fixed                                                                               | Varifocal                                                                              |
| Focal Length            |               |                                       | 0F / 1F      4 mm / 6 mm                                                          | 4 mm                                     | 4 mm                                        | 4 mm                                                                                | 2.8 ~ 12 mm                                                                            |
| Maximum Aperture        |               |                                       | 0F / 1F      F/1.8                                                                | F/2.0                                    | F/2.0                                       | F/1.6                                                                               | F/1.6                                                                                  |
| Mount                   |               |                                       | M12                                                                               | M12                                      | M12                                         | M12                                                                                 | Ø14 mm                                                                                 |
| Image Format            |               |                                       | 0F / 1F      1/3"                                                                 | 1/3"                                     | 1/3"                                        | 1/3"                                                                                | 1/2.8"                                                                                 |
| Horizontal FOV          |               |                                       | 0F      78°                                                                       | 80°                                      | 80°                                         | 83.7°                                                                               | 96° ~ 32°                                                                              |
|                         |               |                                       | 1F      49°                                                                       |                                          |                                             |                                                                                     |                                                                                        |
| Operation               | Focus         | Fixed                                 |                                                                                   | Fixed                                    | Fixed                                       | Fixed                                                                               | Manual (with lock)                                                                     |
|                         | Zoom          |                                       |                                                                                   |                                          |                                             |                                                                                     | Manual (with lock)                                                                     |
|                         | Iris          |                                       |                                                                                   |                                          |                                             |                                                                                     | Fixed                                                                                  |
| IR LED Quantity         |               |                                       | 1 IR LED                                                                          | 1 IR LED                                 | 1 IR LED                                    | 2 IR LED                                                                            | 2 IR LEDs                                                                              |
| Max. IR Distance        |               |                                       | 30 m (100 ft)                                                                     | 30 m (100 ft)                            | 30 m (100 ft)                               | 50 m (165 ft)                                                                       | 30 m (100 ft)                                                                          |
| Mechanical              |               |                                       |                                                                                   |                                          |                                             |                                                                                     |                                                                                        |
| Camera Angle Adjustment | Pan           | 0° ~ 360°                             |                                                                                   | 0° ~ 360°                                | 0° ~ 360°                                   | 0° ~ 360°                                                                           | 0° ~ 360°                                                                              |
|                         | Tilt          | 0° ~ 90°                              |                                                                                   | 0° ~ 90°                                 | 0° ~ 90°                                    | 0° ~ 90°                                                                            | 0° ~ 120°                                                                              |
|                         | Rotate        | 0° ~ 360°                             |                                                                                   | 0° ~ 360°                                | 0° ~ 360°                                   | 0° ~ 360°                                                                           | 0° ~ 360°                                                                              |
| Connectors              | Power         | DC Jack, PoE                          |                                                                                   | DC Jack, PoE                             | DC Jack, PoE                                | DC Jack, PoE                                                                        | DC Jack, PoE                                                                           |
|                         | Ethernet      | Ethernet (10/100 Base-T), RJ-45 cable |                                                                                   | Ethernet (10/100 Base-T), RJ-45 cable    | Ethernet (10/100 Base-T), RJ-45 cable       | Ethernet (10/100 Base-T), RJ-45 cable                                               | Ethernet (10/100 Base-T), RJ-45 cable                                                  |
|                         | Audio         | N/A                                   |                                                                                   | N/A                                      | N/A                                         | N/A                                                                                 | N/A                                                                                    |
|                         | Digital I/O   | N/A                                   |                                                                                   | N/A                                      | N/A                                         | N/A                                                                                 | N/A                                                                                    |
|                         | Local Storage | N/A                                   |                                                                                   | N/A                                      | N/A                                         | N/A                                                                                 | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported. |
|                         | TV Out        | N/A                                   |                                                                                   | N/A                                      | N/A                                         | N/A                                                                                 | N/A                                                                                    |
| General                 |               |                                       |                                                                                   |                                          |                                             |                                                                                     |                                                                                        |
| Environment Temperature | Startup       | -30°C ~ 60°C (-22°F ~ 140°F)          |                                                                                   | -30°C ~ 60°C (-22°F ~ 140°F)             | -30°C ~ 60°C (-22°F ~ 140°F)                | -30°C ~ 60°C (-22°F ~ 140°F)                                                        | -35°C ~ 60°C (-31°F ~ 140°F)                                                           |
|                         | Operation     |                                       |                                                                                   |                                          |                                             |                                                                                     |                                                                                        |
| Humidity                |               |                                       | 0% ~ 95% (no condensation)                                                        |                                          | 10% ~ 90% (no condensation)                 |                                                                                     | 0% ~ 95% (no condensation)                                                             |
| Power Source            |               |                                       | 12V DC / PoE (IEEE 802.3af)                                                       |                                          | 12V DC / PoE (IEEE 802.3af)                 |                                                                                     | 12V DC / PoE (IEEE 802.3af)                                                            |
| Max. Power Consumption  |               |                                       | 5.5 W                                                                             |                                          | 4 W                                         |                                                                                     | 6 W                                                                                    |
| Regulatory              |               |                                       | FCC, CE, RoHS compliant                                                           |                                          | FCC, CE, RoHS compliant                     |                                                                                     | FCC, CE, RoHS compliant                                                                |
| Dimensions (L X W X H)  |               |                                       | 162.9 × 62.4 × 62.7 mm (6.4" × 2.5" × 2.5")                                       |                                          | 162.9 × 62.4 × 62.7 mm (6.4" × 2.5" × 2.5") |                                                                                     | 162 × 69 × 69 mm (6.4" × 2.7" × 2.7")                                                  |
| Weight                  |               |                                       | 0.25 kg (0.55 lb)                                                                 |                                          | 0.37 kg (0.81 lb)                           |                                                                                     | 0.45 kg (0.99 lb)                                                                      |
| Ingress Protection      |               |                                       | IP66                                                                              |                                          | IP67                                        |                                                                                     | IP67                                                                                   |
| Vandal Resistance       |               |                                       | N/A                                                                               |                                          | N/A                                         |                                                                                     | N/A                                                                                    |
|                         |               |                                       |                                                                                   |                                          |                                             |                                                                                     | IK10 for metal casing                                                                  |

Note: Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 4)

|                         |               | GV-ABL4712                                                                             | GV-TBL4710              | GV-ABL4711                                                              | GV-TBL4711 | GV-ABL8712                                                                 | GV-TBL8710              |
|-------------------------|---------------|----------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------|------------|----------------------------------------------------------------------------|-------------------------|
|                         |               |      |                         |                                                                         |            |                                                                            |                         |
| Camera                  |               |                                                                                        |                         |                                                                         |            |                                                                            |                         |
| Image Sensor            |               | 1/3" progressive scan super low lux CMOS                                               |                         |                                                                         |            | 1/2" progressive scan super low lux CMOS                                   |                         |
| Picture Elements        |               | 2592 (H) x 1520 (V)                                                                    |                         | 2688 (H) x 1520 (V)                                                     |            | 3840 (H) x 2160 (V)                                                        |                         |
| Minimum Illumination    | Color         | 0.005 Lux (F1.4, AGC ON)                                                               |                         | 0.003 Lux (F1.6, AGC ON)                                                |            | 0.003 Lux (F1.5, AGC ON)                                                   |                         |
|                         | B/W           | N/A                                                                                    |                         |                                                                         |            |                                                                            |                         |
|                         | IR ON         | 0 Lux                                                                                  |                         |                                                                         |            |                                                                            |                         |
| Shutter Speed           |               | Auto / Manual (1/6 ~ 1/100000 sec)                                                     |                         |                                                                         |            |                                                                            |                         |
| White Balance           |               | Auto / Manual                                                                          |                         |                                                                         |            |                                                                            |                         |
| Gain Control            |               | Auto / Manual                                                                          |                         |                                                                         |            |                                                                            |                         |
| S/N Ratio               |               | 52 dB                                                                                  |                         |                                                                         |            |                                                                            |                         |
| WDR                     |               | WDR Pro                                                                                |                         |                                                                         |            |                                                                            |                         |
| Dynamic Range           |               | Up to 120 dB                                                                           |                         |                                                                         |            |                                                                            |                         |
| Operation               |               |                                                                                        |                         |                                                                         |            |                                                                            |                         |
| Video Compression       |               | H.265, H.264, MJPEG                                                                    |                         |                                                                         |            |                                                                            |                         |
| Video Streaming         |               | Triple streams                                                                         |                         |                                                                         |            |                                                                            |                         |
| Frame Rate              |               | 20 fps at 2592 x 1520<br>25 fps at 2560 x 1440<br>30 fps at 2048 x 1520                |                         | 30 fps at 2688 x 1520<br>30 fps at 2560 x 1440<br>30 fps at 2304 x 1296 |            | 20 fps at 3840 x 2160<br>30 fps at 2944 x 1656 / 2592 x 1440 / 2560 x 1440 |                         |
| Audio Compression       |               | G.711                                                                                  |                         |                                                                         |            |                                                                            |                         |
| Audio Support           |               | Two-way Audio (external microphone and speaker required)                               |                         |                                                                         |            |                                                                            |                         |
| Optical Lens            |               |                                                                                        |                         |                                                                         |            |                                                                            |                         |
| Day/Night               |               | Yes (with removable IR-cut filter)                                                     |                         |                                                                         |            |                                                                            |                         |
| Lens Type               |               | Motorized varifocal                                                                    |                         |                                                                         |            |                                                                            |                         |
| Focal Length            |               | 2.8 ~ 12 mm                                                                            |                         |                                                                         |            |                                                                            |                         |
| Maximum Aperture        |               | F/1.4                                                                                  |                         | F/1.6                                                                   |            | F/1.5                                                                      |                         |
| Mount                   |               | Ø14 mm                                                                                 |                         |                                                                         |            |                                                                            |                         |
| Image Format            |               | 1/3"                                                                                   |                         |                                                                         |            | 1/2"                                                                       |                         |
| Horizontal FOV          |               | 27° ~ 91°                                                                              |                         | 31 ~ 98°                                                                |            | 114.8° ~ 47.3°                                                             |                         |
| Operation               | Focus         | Auto / Manual                                                                          |                         |                                                                         |            |                                                                            |                         |
|                         | Zoom          | 4.3x optical zoom                                                                      |                         |                                                                         |            |                                                                            |                         |
|                         | Iris          | Fixed                                                                                  |                         |                                                                         |            |                                                                            |                         |
| IR LED Quantity         |               | 2 IR LEDs                                                                              |                         | 3 IR LEDs                                                               |            | 3 IR LEDs                                                                  |                         |
| Max. IR Distance        |               | 30 m (100 ft)                                                                          |                         | 50 m (165 ft)                                                           |            | 50 m (165 ft)                                                              |                         |
| Mechanical              |               |                                                                                        |                         |                                                                         |            |                                                                            |                         |
| Camera Angle Adjustment | Pan           | 0° ~ 360°                                                                              |                         |                                                                         |            |                                                                            |                         |
|                         | Tilt          | 0° ~ 120°                                                                              |                         |                                                                         |            |                                                                            |                         |
|                         | Rotate        | 0° ~ 360°                                                                              |                         |                                                                         |            |                                                                            |                         |
| Connectors              | Power         | DC Jack, PoE                                                                           |                         |                                                                         |            |                                                                            |                         |
|                         | Ethernet      | Ethernet (10/100 Base-T), RJ-45 cable                                                  |                         |                                                                         |            |                                                                            |                         |
|                         | Audio         | 1 In (Audio In Wire), 1 Out (Audio Out Wire)                                           |                         |                                                                         |            |                                                                            |                         |
|                         | Digital I/O   | 4-pin terminal block, pitch 3.5 mm (0.14")                                             |                         |                                                                         |            |                                                                            |                         |
|                         | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported. |                         |                                                                         |            |                                                                            |                         |
|                         | TV Out        | N/A                                                                                    |                         |                                                                         |            | BNC Connector                                                              |                         |
| General                 |               |                                                                                        |                         |                                                                         |            |                                                                            |                         |
| Environment Temperature | Startup       | -35°C ~ 60°C (-31°F ~ 140°F)                                                           |                         | -30 ~ 60°C (-22 ~ 140°F)                                                |            | -35°C ~ 60°C (-31°F ~ 140°F)                                               |                         |
|                         | Operation     |                                                                                        |                         |                                                                         |            |                                                                            |                         |
| Humidity                |               | 0% ~ 95% (no condensation)                                                             |                         |                                                                         |            |                                                                            |                         |
| Power Source            |               | 12V DC / PoE (IEEE 802.3af)                                                            |                         |                                                                         |            |                                                                            |                         |
| Max. Power Consumption  |               | 9 W                                                                                    | 10 W                    | 9.5 W                                                                   |            | 9 W                                                                        | 10 W                    |
| Regulatory              |               | FCC, CE, RoHS compliant                                                                | FCC, CE, RoHS compliant |                                                                         |            | FCC, CE, RoHS compliant                                                    | FCC, CE, RoHS compliant |
| Dimensions (L X W X H)  |               | 244 × 96 × 74 mm (9.6" × 3.8" × 2.9")                                                  |                         |                                                                         |            |                                                                            |                         |
| Weight                  |               | 0.58 kg (1.28 lb)                                                                      |                         | 1.0 kg (2.2 lb)                                                         |            | 0.58 kg (1.28 lb)                                                          |                         |
| Ingress Protection      |               | IP67                                                                                   |                         |                                                                         |            |                                                                            |                         |
| Vandal Resistance       |               | IK10 for metal casing                                                                  |                         |                                                                         |            |                                                                            |                         |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 5)

|                         |               | GV-EFD4700 Series                                                                 |                                                                                          | GV-EFD2700 Series                          |      |
|-------------------------|---------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------|------|
|                         |               |  |                                                                                          |                                            |      |
| Camera                  |               |                                                                                   |                                                                                          |                                            |      |
| Image Sensor            |               | 1/3" progressive scan super low lux CMOS                                          |                                                                                          | 1/2.8" progressive scan super low lux CMOS |      |
| Picture Elements        |               | 2592 (H) x 1520 (V)                                                               |                                                                                          | 1920 (H) x 1080 (V)                        |      |
| Minimum Illumination    | Color         | 0.03 Lux                                                                          |                                                                                          | 0.005 Lux                                  |      |
|                         | B/W           | 0.02 Lux                                                                          |                                                                                          | 0.004 Lux                                  |      |
|                         | IR ON         | 0 Lux                                                                             |                                                                                          |                                            |      |
| Shutter Speed           |               | Auto, Manual (1/5 ~ 1/8000 sec)                                                   |                                                                                          | Automatic, manual (1/5 ~ 1/16000 sec)      |      |
| White Balance           |               | Auto, Manual (2800K ~ 8500K)                                                      |                                                                                          |                                            |      |
| Gain Control            |               | Automatic                                                                         |                                                                                          |                                            |      |
| S/N Ratio               |               | 50 dB                                                                             |                                                                                          | 56 dB                                      |      |
| WDR                     |               | WDR Pro                                                                           |                                                                                          |                                            |      |
| Dynamic Range           |               | Up to 120 dB                                                                      |                                                                                          | Up to 130 dB                               |      |
| Operation               |               |                                                                                   |                                                                                          |                                            |      |
| Video Compression       |               | H.265, H.264, MJPEG                                                               |                                                                                          |                                            |      |
| Video Streaming         |               | Triple streams from H.265, H.264 or MJPEG                                         |                                                                                          | Dual streams from H.265, H.264 or MJPEG    |      |
| Frame Rate              |               | 20 fps at 2592 x 1520<br>24 fps at 2560 x 1440<br>30 fps at 2048 x 1520           |                                                                                          | 30 fps at 1920 x 1080                      |      |
| Audio Compression       |               | G.711                                                                             |                                                                                          |                                            |      |
| Audio Support           |               | One-way Audio                                                                     |                                                                                          |                                            |      |
| Optical Lens            |               |                                                                                   |                                                                                          |                                            |      |
| Day/Night               |               | Yes (with removable IR-cut filter)                                                |                                                                                          |                                            |      |
| Lens Type               |               | Fixed                                                                             |                                                                                          |                                            |      |
| Focal Length            |               | GV-EFD4700-0F / EFD2700-0F                                                        | 2.8 mm                                                                                   |                                            |      |
|                         |               | GV-EFD4700-2F / EFD2700-2F                                                        | 3.8 mm                                                                                   |                                            |      |
| Maximum Aperture        |               | GV-EFD4700-0F / EFD2700-0F                                                        | F/2.0                                                                                    |                                            |      |
|                         |               | GV-EFD4700-2F / EFD2700-2F                                                        | F/1.8                                                                                    |                                            |      |
| Mount                   |               | M12, Pitch 0.5 mm                                                                 |                                                                                          |                                            |      |
| Image Format            |               | 1/2.7"                                                                            |                                                                                          |                                            |      |
| Horizontal FOV          |               | GV-EFD4700-0F                                                                     | 96°                                                                                      | GV-EFD2700-0F                              | 100° |
|                         |               | GV-EFD4700-2F                                                                     | 72°                                                                                      | GV-EFD2700-2F                              | 73°  |
| Operation               | Focus         | Fixed                                                                             |                                                                                          |                                            |      |
|                         | Zoom          |                                                                                   |                                                                                          |                                            |      |
|                         | Iris          |                                                                                   |                                                                                          |                                            |      |
| IR LED Quantity         |               | 12 IR LEDs                                                                        |                                                                                          |                                            |      |
| Max. IR Distance        |               | 15 m (50 ft)                                                                      |                                                                                          | 40 m (130 ft)                              |      |
| Mechanical              |               |                                                                                   |                                                                                          |                                            |      |
| Camera Angle            | Pan           | -45° ~ 45°                                                                        |                                                                                          |                                            |      |
| Adjustment              | Tilt          | 0° ~ 63°                                                                          |                                                                                          |                                            |      |
| Connectors              | Power         | 2-pin terminal block, PoE                                                         |                                                                                          |                                            |      |
|                         | Ethernet      | Ethernet (10/100 Base-T), RJ-45 cable                                             |                                                                                          |                                            |      |
|                         | Audio         | 1 In (built-in microphone)                                                        |                                                                                          |                                            |      |
|                         | Local Storage | N/A                                                                               | Micro SD card slot (SD/SDHC/UHS-I, Class 10)<br>*UHS-II/SDXC card type is not supported. |                                            |      |
| LED Indicator           |               | 4 LEDs: Link, ACT, Power, Status                                                  |                                                                                          |                                            |      |
| General                 |               |                                                                                   |                                                                                          |                                            |      |
| Environment Temperature |               | 0°C ~ 45°C (32°F ~113°F)                                                          |                                                                                          |                                            |      |
| Humidity                |               | 10% to 90% (no condensation)                                                      |                                                                                          |                                            |      |
| Power Source            |               | 12V DC / PoE (IEEE 802.3af)                                                       |                                                                                          |                                            |      |
| Max. Power Consumption  |               | 6.07 W                                                                            |                                                                                          |                                            |      |
| Regulatory              |               | CE, FCC, RCM, LVD, RoHS compliant                                                 |                                                                                          |                                            |      |
| Dimensions (L X W X H)  |               | ø 100 x 60 mm (3.9" x 2.4")                                                       |                                                                                          |                                            |      |
| Weight                  |               | 148 g (0.33 lb)                                                                   |                                                                                          |                                            |      |
| Ingress Protection      |               | N/A                                                                               |                                                                                          |                                            |      |
| Vandal Resistance       |               | N/A                                                                               |                                                                                          |                                            |      |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 6)

|                             |               | GV-EDR4700 Series                                                                 | GV-EDR2700 Series |                                                                                          |  |      |  |
|-----------------------------|---------------|-----------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------|--|------|--|
|                             |               |  |                   |                                                                                          |  |      |  |
|                             |               | Camera                                                                            |                   |                                                                                          |  |      |  |
| Image Sensor                |               | 1/3" progressive scan super low lux CMOS                                          |                   | 1/2.8" progressive scan super low lux CMOS                                               |  |      |  |
| Picture Elements            |               | 2592 (H) x 1520 (V)                                                               |                   | 1920 (H) x 1080 (V)                                                                      |  |      |  |
| Minimum Illumination        | Color         | 0.03 Lux                                                                          |                   | 0.005 Lux                                                                                |  |      |  |
|                             | B/W           | 0.02 Lux                                                                          |                   | 0.004 Lux                                                                                |  |      |  |
|                             | IR ON         | 0 Lux                                                                             |                   |                                                                                          |  |      |  |
| Shutter Speed               |               | Auto, Manual (1/5 ~ 1/16000 sec)                                                  |                   |                                                                                          |  |      |  |
| White Balance               |               | Auto, Manual (2800K ~ 8500K)                                                      |                   |                                                                                          |  |      |  |
| Gain Control                |               | Automatic                                                                         |                   |                                                                                          |  |      |  |
| S/N Ratio                   |               | 50 dB                                                                             |                   | 56 dB                                                                                    |  |      |  |
| WDR                         |               | WDR Pro                                                                           |                   |                                                                                          |  |      |  |
| Dynamic Range               |               | Up to 120 dB                                                                      |                   | Up to 130 dB                                                                             |  |      |  |
| Operation                   |               |                                                                                   |                   |                                                                                          |  |      |  |
| Video Compression           |               | H.265, H.264, MJPEG                                                               |                   |                                                                                          |  |      |  |
| Video Streaming             |               | Triple streams                                                                    |                   | Dual streams                                                                             |  |      |  |
| Frame Rate                  |               | 20 fps at 2592 x 1520                                                             |                   | 30 fps at 1920 x 1080                                                                    |  |      |  |
|                             |               | 24 fps at 2560 x 1440                                                             |                   |                                                                                          |  |      |  |
|                             |               | 30 fps at 2048 x 1520                                                             |                   |                                                                                          |  |      |  |
| Audio Support               |               | N/A                                                                               |                   |                                                                                          |  |      |  |
| Optical Lens                |               |                                                                                   |                   |                                                                                          |  |      |  |
| Day/Night                   |               | Yes (with removable IR-cut filter)                                                |                   |                                                                                          |  |      |  |
| Lens Type                   |               | Fixed                                                                             |                   |                                                                                          |  |      |  |
| Focal Length                |               | GV-EDR4700-0F / EDR2700-0F                                                        |                   | 2.8 mm                                                                                   |  |      |  |
|                             |               | GV-EDR4700-2F / EDR2700-2F                                                        |                   | 3.8 mm                                                                                   |  |      |  |
| Maximum Aperture            |               | GV-EDR4700-0F / EDR2700-0F                                                        |                   | F/2.0                                                                                    |  |      |  |
|                             |               | GV-EDR4700-2F / EDR2700-2F                                                        |                   | F/1.8                                                                                    |  |      |  |
| Mount                       |               | M12, Pitch 0.5 mm                                                                 |                   |                                                                                          |  |      |  |
| Image Format                |               | 1/2.7"                                                                            |                   |                                                                                          |  |      |  |
| Horizontal FOV              |               | GV-EDR4700-0F                                                                     |                   | GV-EDR2700-0F                                                                            |  | 100° |  |
|                             |               | GV-EDR4700-2F                                                                     |                   | GV-EDR2700-2F                                                                            |  | 73°  |  |
| Operation (Focus/Zoom/Iris) |               | Fixed                                                                             |                   |                                                                                          |  |      |  |
| IR LED Quantity             |               | 12 IR LEDs                                                                        |                   |                                                                                          |  |      |  |
| Max. IR Distance            |               | 15 m (50 ft)                                                                      |                   | 40 m (130 ft)                                                                            |  |      |  |
| Mechanical                  |               |                                                                                   |                   |                                                                                          |  |      |  |
| Camera Angle Adjustment     | Pan           | -45° ~ 45°                                                                        |                   |                                                                                          |  |      |  |
|                             | Tilt          | 0° ~ 63°                                                                          |                   |                                                                                          |  |      |  |
|                             | Rotate        | N/A                                                                               |                   |                                                                                          |  |      |  |
| Connectors                  | Power         | 2-pin terminal block, PoE                                                         |                   |                                                                                          |  |      |  |
|                             | Ethernet      | Ethernet (10/100 Base-T), RJ-45 cable                                             |                   |                                                                                          |  |      |  |
|                             | Audio         | N/A                                                                               |                   |                                                                                          |  |      |  |
|                             | Local Storage | N/A                                                                               |                   | Micro SD card slot (SD/SDHC/UHS-I, Class 10)<br>*UHS-II/SDXC card type is not supported. |  |      |  |
| LED Indicator               |               | 4 LEDs: Link, ACT, Power, Status                                                  |                   |                                                                                          |  |      |  |
| General                     |               |                                                                                   |                   |                                                                                          |  |      |  |
| Environment                 | Start-up      | -20°C ~ 50°C (-4°F ~122°F)                                                        |                   | -20°C ~ 60°C (-4°F ~140°F)                                                               |  |      |  |
| Temperature                 | Operation     | -30°C ~ 50°C (-22°F ~122°F)                                                       |                   | -30°C ~ 60°C (-22°F ~140°F)                                                              |  |      |  |
| Humidity                    |               | 10% to 90% (no condensation)                                                      |                   |                                                                                          |  |      |  |
| Power Source                |               | 12V DC / PoE (IEEE 802.3af)                                                       |                   |                                                                                          |  |      |  |
| Max. Power Consumption      |               | 6.07 W                                                                            |                   |                                                                                          |  |      |  |
| Regulatory                  |               | CE, FCC, RCM, LVD, RoHS compliant                                                 |                   |                                                                                          |  |      |  |
| Dimensions (L X W X H)      |               | ø 114 x 62.8 mm (4.49" x 2.47")                                                   |                   |                                                                                          |  |      |  |
| Weight                      |               | 600 g (1.32 lb)                                                                   |                   |                                                                                          |  |      |  |
| Ingress Protection          |               | IP67                                                                              |                   |                                                                                          |  |      |  |
| Vandal Resistance           |               | IK10 for metal casing                                                             |                   |                                                                                          |  |      |  |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 7)

|                         |               | GV-ADR2701                                                                        |  | GV-ADR2702              |        | GV-TDR2702 |    | GV-TDR2700                                                                            |  | GV-TDR2704                                                                                  |        |  |
|-------------------------|---------------|-----------------------------------------------------------------------------------|--|-------------------------|--------|------------|----|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------|--------|--|
|                         |               |  |  |                         |        |            |    |                                                                                       |  |                                                                                             |        |  |
|                         |               |                                                                                   |  |                         |        |            |    |                                                                                       |  |                                                                                             |        |  |
| Camera                  |               |                                                                                   |  |                         |        |            |    |                                                                                       |  |                                                                                             |        |  |
| Image Sensor            |               | 1/2.7" progressive scan low lux CMOS                                              |  |                         |        |            |    | 1/2.8" progressive scan low lux CMOS                                                  |  | 1/2.7" progressive scan low lux CMOS                                                        |        |  |
| Picture Elements        |               | 1920 (H) x 1080 (V)                                                               |  |                         |        |            |    | 1920 (H) x 1080 (V)                                                                   |  | 1920 (H) x 1080 (V)                                                                         |        |  |
| Minimum Illumination    | Color         | 0.01 Lux (F1.8, AGC ON)                                                           |  | 0.02 Lux (F2.0, AGC ON) |        |            |    | 0.001 Lux (F1.6, AGC ON)                                                              |  | 0.01 Lux (F2.0, AGC ON)                                                                     |        |  |
|                         | B/W           | N/A                                                                               |  |                         |        |            |    | N/A                                                                                   |  | N/A                                                                                         |        |  |
|                         | IR ON         | 0 Lux                                                                             |  |                         |        |            |    | 0 Lux                                                                                 |  | 0 Lux                                                                                       |        |  |
| Shutter Speed           |               | Auto / Manual (1/6 ~ 1/100000 sec)                                                |  |                         |        |            |    | Auto / Manual (1 ~ 1/100000 sec)                                                      |  | Auto / Manual (1 ~ 1/100000 sec)                                                            |        |  |
| White Balance           |               | Auto / Manual                                                                     |  |                         |        |            |    | Auto / Manual                                                                         |  | Auto / Manual                                                                               |        |  |
| Gain Control            |               | Auto / Manual                                                                     |  |                         |        |            |    | Auto / Manual                                                                         |  | Auto / Manual                                                                               |        |  |
| S/N Ratio               |               | 52 dB                                                                             |  |                         |        |            |    | 52 dB                                                                                 |  | 52 dB                                                                                       |        |  |
| WDR                     |               | Yes                                                                               |  |                         |        |            |    | WDR Pro                                                                               |  | WDR Pro                                                                                     |        |  |
| Dynamic Range           |               | Up to 72 dB                                                                       |  |                         |        |            |    | Up to 120 dB                                                                          |  | Up to 120 dB                                                                                |        |  |
| Operation               |               |                                                                                   |  |                         |        |            |    |                                                                                       |  |                                                                                             |        |  |
| Video Compression       |               | H.265, H.264, MJPEG                                                               |  |                         |        |            |    | H.265, H.264, MJPEG                                                                   |  | H.265, H.264, MJPEG                                                                         |        |  |
| Video Streaming         |               | Triple streams                                                                    |  |                         |        |            |    | Triple streams                                                                        |  | Dual streams                                                                                |        |  |
| Frame Rate              |               | 25 fps at 1920 x 1080                                                             |  | 30 fps at 1920 x 1080   |        |            |    | 30 fps at 1920 x 1080                                                                 |  | 30 fps at 1920 x 1080                                                                       |        |  |
| Audio Compression       |               | N/A                                                                               |  |                         |        |            |    | G.711                                                                                 |  | N/A                                                                                         |        |  |
| Audio Support           |               | N/A                                                                               |  |                         |        |            |    | Two-way Audio (external microphone and speaker required)                              |  | N/A                                                                                         |        |  |
| Digital I/O             | Input         | N/A                                                                               |  |                         |        |            |    | 1 Input, dry contact, NO / NC                                                         |  | N/A                                                                                         |        |  |
|                         | Output        |                                                                                   |  |                         |        |            |    | 1 Relay Output (1A 30V DC / 0.3A 125V AC)                                             |  | N/A                                                                                         |        |  |
| Optical Lens            |               |                                                                                   |  |                         |        |            |    |                                                                                       |  |                                                                                             |        |  |
| Day/Night               |               | Yes (with removable IR-cut filter)                                                |  |                         |        |            |    | Yes (with removable IR-cut filter)                                                    |  | Yes (with removable IR-cut filter)                                                          |        |  |
| Lens Type               |               | Fixed                                                                             |  |                         |        |            |    | Fixed                                                                                 |  | Fixed                                                                                       |        |  |
| Focal Length            |               | 2.8 mm                                                                            |  | 0F                      | 2.8 mm |            | 0F | 2.8 mm                                                                                |  | 2F                                                                                          | 2.8 mm |  |
|                         |               |                                                                                   |  | 1F                      | 4.0 mm |            | 1F | 4.0 mm                                                                                |  | 4F                                                                                          | 4.0 mm |  |
| Maximum Aperture        |               | F/1.8                                                                             |  | F/2.0                   |        |            |    | F/1.6                                                                                 |  | F/2.0                                                                                       |        |  |
| Mount                   |               | M12                                                                               |  |                         |        |            |    | M12                                                                                   |  | M12                                                                                         |        |  |
| Image Format            |               | 1/2.7"                                                                            |  |                         |        |            |    | 1/2.8"                                                                                |  | 1/2.7"                                                                                      |        |  |
| Horizontal FOV          |               | 105.2°                                                                            |  | 0F                      | 110°   |            | 0F | 111°                                                                                  |  | 2F                                                                                          | 113°   |  |
|                         |               |                                                                                   |  | 1F                      | 83°    |            | 1F | 81°                                                                                   |  | 4F                                                                                          | 91°    |  |
| Operation               | Focus         | Fixed                                                                             |  |                         |        |            |    | Fixed                                                                                 |  | Fixed                                                                                       |        |  |
|                         | Zoom          |                                                                                   |  |                         |        |            |    |                                                                                       |  |                                                                                             |        |  |
|                         | Iris          |                                                                                   |  |                         |        |            |    |                                                                                       |  |                                                                                             |        |  |
| IR LED Quantity         |               | 1 IR LED                                                                          |  |                         |        |            |    | 1 IR LED                                                                              |  | 1 IR LED                                                                                    |        |  |
| Max. IR Distance        |               | 30 m (100 ft)                                                                     |  |                         |        |            |    | 30 m (100 ft)                                                                         |  | 30 m (100 ft)                                                                               |        |  |
| Mechanical              |               |                                                                                   |  |                         |        |            |    |                                                                                       |  |                                                                                             |        |  |
| Camera Angle Adjustment | Pan           | 0° ~ 360°                                                                         |  |                         |        |            |    | 0° ~ 360°                                                                             |  | 0° ~ 360°                                                                                   |        |  |
|                         | Tilt          | 0° ~ 68°                                                                          |  | 0° ~ 75°                |        |            |    | 0° ~ 75°                                                                              |  | 0° ~ 68°                                                                                    |        |  |
|                         | Rotate        | N/A                                                                               |  |                         |        |            |    | 0° ~ 360°                                                                             |  | 0° ~ 360°                                                                                   |        |  |
| Connectors              | Power         | DC Jack, PoE                                                                      |  |                         |        |            |    | DC Jack, PoE                                                                          |  | DC Jack, PoE                                                                                |        |  |
|                         | Ethernet      | Ethernet (10/100 Base-T), RJ-45 cable                                             |  |                         |        |            |    | Ethernet (10/100 Base-T), RJ-45 cable                                                 |  | Ethernet (10/100 Base-T), RJ-45 cable                                                       |        |  |
|                         | Audio         | N/A                                                                               |  |                         |        |            |    | 2 In (Audio In Wire) 1 Out (Audio Out Wire)                                           |  | N/A                                                                                         |        |  |
|                         | Local Storage | N/A                                                                               |  |                         |        |            |    | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported. |  | Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported. |        |  |
| LED Indicator           |               | N/A                                                                               |  |                         |        |            |    | N/A                                                                                   |  | N/A                                                                                         |        |  |
| General                 |               |                                                                                   |  |                         |        |            |    |                                                                                       |  |                                                                                             |        |  |
| Environment Temperature |               | -30°C ~ 60°C (-22°F ~ 140°F)                                                      |  |                         |        |            |    | -35°C ~ 60°C (-31°F ~ 140°F)                                                          |  | -30 °C ~ 60 °C (-22 °F ~ 140 °F)                                                            |        |  |
| Humidity                |               | 0% ~ 95% (no condensation)                                                        |  |                         |        |            |    | 0% ~ 95% (no condensation)                                                            |  | 10% ~ 90% (no condensation)                                                                 |        |  |
| Power Source            |               | 12V DC / PoE (IEEE 802.3af)                                                       |  |                         |        |            |    | 12V DC / PoE (IEEE 802.3af)                                                           |  | 12V DC / PoE (IEEE802.3af)                                                                  |        |  |
| Max. Power Consumption  |               | 5 W                                                                               |  | 4.5 W                   |        |            |    | 4 W                                                                                   |  | 5.0 W                                                                                       |        |  |
| Regulatory              |               | FCC, CE, RoHS compliant                                                           |  |                         |        |            |    | FCC, CE, RoHS compliant                                                               |  | FCC, CE, RoHS compliant                                                                     |        |  |
| Dimensions (L X W X H)  |               | Ø 109 x 81 mm (Ø 4.3" x 3.2")                                                     |  |                         |        |            |    | Ø 109 x 81 mm (Ø 4.3" x 3.2")                                                         |  | Ø 108.7 x 81.1 mm (Ø 4.3" x 3.2")                                                           |        |  |
| Weight                  |               | 0.3 kg (0.66 lb)                                                                  |  |                         |        |            |    | 0.45 kg (0.99 lb)                                                                     |  | 0.36 kg (0.79 lb)                                                                           |        |  |
| Ingress Protection      |               | IP66                                                                              |  | IP67                    |        |            |    | IP67                                                                                  |  | IP67                                                                                        |        |  |
| Vandal Resistance       |               | N/A                                                                               |  | IK10 for metal casing   |        |            |    | IK10 for metal casing                                                                 |  | IK10 for metal casing                                                                       |        |  |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 8)

|                         |               |                                                                                       |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
|-------------------------|---------------|---------------------------------------------------------------------------------------|--|------------------------------------|----|----------------------------|--|---------------------------------------------------------------------------------------|--------|----------------------------------|----|----------------------------------|-------|
|                         |               | GV-TDR4700                                                                            |  | GV-ADR4701                         |    | GV-ADR4702                 |  | GV-TDR4702                                                                            |        | GV-TDR4703                       |    | GV-TDR4704                       |       |
|                         |               |      |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
|                         |               |                                                                                       |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| Camera                  |               |                                                                                       |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| Image Sensor            |               | 1/3" progressive scan super low lux CMOS                                              |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| Picture Elements        |               | 2592(H) x 1520 (V)                                                                    |  |                                    |    |                            |  |                                                                                       |        | 2688 (H) x 1520 (V)              |    | 2688 (H) x 1520 (V)              |       |
| Minimum Illumination    | Color         | 0.03 Lux (F2.0, AGC ON)                                                               |  | 0.02 Lux (F1.8, AGC ON)            |    | 0.03 Lux (F2.0, AGC ON)    |  |                                                                                       |        | 0.01 Lux (F2.0, AGC ON)          |    | 0.003 lux (F1.6, AGC ON)         |       |
|                         | B/W           | N/A                                                                                   |  |                                    |    |                            |  |                                                                                       |        |                                  |    | N/A                              |       |
|                         | IR ON         | 0 Lux                                                                                 |  |                                    |    |                            |  |                                                                                       |        |                                  |    | N/A                              |       |
| Shutter Speed           |               | Auto / Manual (1 ~ 1/100000 sec)                                                      |  | Auto / Manual (1/6 ~ 1/100000 sec) |    |                            |  | Auto / Manual (1 ~ 1/100000 sec)                                                      |        | Auto / Manual (1 ~ 1/100000 sec) |    |                                  |       |
| White Balance           |               | Auto / Manual                                                                         |  |                                    |    |                            |  |                                                                                       |        |                                  |    | Auto / Manual                    |       |
| Gain Control            |               | Auto / Manual                                                                         |  |                                    |    |                            |  |                                                                                       |        |                                  |    | Auto / Manual                    |       |
| S/N Ratio               |               | 52 dB                                                                                 |  |                                    |    |                            |  | 56 dB                                                                                 |        | 56 dB                            |    |                                  |       |
| WDR                     |               | WDR Pro                                                                               |  | Yes                                |    |                            |  | WDR Pro                                                                               |        | WDR Pro                          |    |                                  |       |
| Dynamic Range           |               | Up to 120 dB                                                                          |  | Up to 72 dB                        |    |                            |  | Up to 120 dB                                                                          |        | Up to 120 dB                     |    |                                  |       |
| Operation               |               |                                                                                       |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| Video Compression       |               | H.265, H.264, MJPEG                                                                   |  |                                    |    |                            |  |                                                                                       |        |                                  |    | Up to 120 dB                     |       |
| Video Streaming         |               | Triple streams                                                                        |  |                                    |    |                            |  | Dual streams                                                                          |        |                                  |    |                                  |       |
| Frame Rate              |               | 20 fps at 2592 x 1520<br>25 fps at 2560 x 1440<br>30 fps at 2048 x 1520               |  | 20 fps at 2592 x 1520              |    |                            |  | 30 fps at 2688 x 1520<br>30 fps at 2560 x 1440<br>30 fps at 1920 x 1080               |        | 30 fps at 2688 x 1520            |    |                                  |       |
| Audio Compression       |               | G.711                                                                                 |  | N/A                                |    |                            |  | G.711                                                                                 |        | N/A                              |    |                                  |       |
| Audio Support           |               | Two-way Audio (external microphone and speaker required)                              |  | N/A                                |    |                            |  | Two-way Audio (external microphone and speaker required)                              |        | N/A                              |    |                                  |       |
| Digital I/O             | Input         | 1 Input, dry contact, NO / NC                                                         |  | N/A                                |    |                            |  | 1 Input, dry contact, NO / NC                                                         |        | N/A                              |    |                                  |       |
|                         | Output        | 1 Relay Output (1A 30V DC / 0.3A 125V AC)                                             |  | N/A                                |    |                            |  | 1 Relay Output (1A 30V DC / 0.3A 125V AC)                                             |        | N/A                              |    |                                  |       |
| Optical Lens            |               |                                                                                       |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| Day/Night               |               | Yes (with removable IR-cut filter)                                                    |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| Lens Type               |               | Fixed                                                                                 |  |                                    |    |                            |  |                                                                                       |        |                                  |    | Fixed                            |       |
| Focal Length            | 0F            | 2.8 mm                                                                                |  | 2.8 mm                             | 0F | 2.8 mm                     |  | 2F                                                                                    | 2.8 mm |                                  |    |                                  |       |
|                         | 1F            | 3.6 mm                                                                                |  |                                    |    | 4.0 mm                     |  |                                                                                       | 4F     | 4.0 mm                           |    |                                  |       |
| Maximum Aperture        |               | F2.0                                                                                  |  | F/1.8                              |    | F/2.0                      |  |                                                                                       |        | F/1.6                            |    |                                  |       |
| Mount                   |               | M12                                                                                   |  |                                    |    |                            |  |                                                                                       |        |                                  |    | M12                              |       |
| Image Format            |               | 1/3"                                                                                  |  |                                    |    |                            |  |                                                                                       |        |                                  |    | 1/3"                             |       |
| Horizontal FOV          | 0F            | 100°                                                                                  |  | 101°                               | 0F | 101°                       |  | 2F                                                                                    | 95°    |                                  | 2F | 101°                             |       |
|                         | 1F            | 78°                                                                                   |  |                                    |    | 76°                        |  |                                                                                       | 82°    |                                  |    | 4F                               | 83.7° |
| Operation               | Focus         | Fixed                                                                                 |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
|                         | Zoom          |                                                                                       |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
|                         | Iris          |                                                                                       |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| IR LED Quantity         |               | 1 IR LED                                                                              |  |                                    |    |                            |  |                                                                                       |        |                                  |    | 1 IR LED                         |       |
| Max. IR Distance        |               | 30 m (100 ft)                                                                         |  |                                    |    |                            |  |                                                                                       |        |                                  |    | 30 m (100 ft)                    |       |
| Mechanical              |               |                                                                                       |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| Camera Angle Adjustment | Pan           | 0° ~ 360°                                                                             |  |                                    |    |                            |  |                                                                                       |        |                                  |    | 3° ~ 360°                        |       |
|                         | Tilt          | 0° ~ 75°                                                                              |  | 0° ~ 68°                           |    | 0° ~ 75°                   |  |                                                                                       |        | 0° ~ 90°                         |    | 0° ~ 68°                         |       |
|                         | Rotate        | 0° ~ 360°                                                                             |  | N/A                                |    |                            |  | 0° ~ 360°                                                                             |        | 3° ~ 360°                        |    |                                  |       |
| Connectors              | Power         | DC Jack, PoE                                                                          |  |                                    |    |                            |  |                                                                                       |        |                                  |    | DC Jack, PoE                     |       |
|                         | Ethernet      | Ethernet (10/100 Base-T), RJ-45 cable                                                 |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
|                         | Audio         | 2 In (Audio In Wire) 1 Out (Audio Out Wire)                                           |  | N/A                                |    |                            |  | 1 In (Audio In Wire) 1 Out (Audio Out Wire)                                           |        | N/A                              |    |                                  |       |
|                         | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported. |  | N/A                                |    |                            |  | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported. |        |                                  |    |                                  |       |
| LED Indicator           |               | N/A                                                                                   |  |                                    |    |                            |  |                                                                                       |        |                                  |    | N/A                              |       |
| General                 |               |                                                                                       |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| Environment Temperature |               | -30°C ~ 60°C (-22°F ~ 140°F)                                                          |  |                                    |    |                            |  |                                                                                       |        | -35°C ~ 60°C (-31°F ~ 140°F)     |    | -30 °C ~ 60 °C (-22 °F ~ 140 °F) |       |
| Humidity                |               | 0% ~ 95% (no condensation)                                                            |  |                                    |    | 0% ~ 90% (no condensation) |  |                                                                                       |        | 0% ~ 95% (no condensation)       |    |                                  |       |
| Power Source            |               | 12V DC / PoE (IEEE 802.3af)                                                           |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| Max. Power Consumption  |               | 5 W                                                                                   |  |                                    |    | 4.5 W                      |  |                                                                                       |        | 5.5 W                            |    |                                  |       |
| Regulatory              |               | FCC, CE, RoHS compliant                                                               |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |
| Dimensions (L X W X H)  |               | Ø 109 x 81 mm (Ø 4.3" x 3.2")                                                         |  |                                    |    |                            |  |                                                                                       |        |                                  |    | Ø 108.7 x 81.1 mm (Ø4.3" x 3.2") |       |
| Weight                  |               | 0.3 kg (0.66 lb)                                                                      |  |                                    |    |                            |  |                                                                                       |        | 0.45 kg (0.99 lb)                |    | 0.35 kg (0.77 lb)                |       |
| Ingress Protection      |               | IP66                                                                                  |  |                                    |    | IP67                       |  |                                                                                       |        |                                  |    |                                  |       |
| Vandal Resistance       |               | IK10 for metal casing                                                                 |  |                                    |    |                            |  |                                                                                       |        |                                  |    |                                  |       |

Note: Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 9)

|                         |               | GV-EBD2702                                                                        | GV-EBD2704                                                                                  |
|-------------------------|---------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                         |               |  |          |
| Camera                  |               |                                                                                   |                                                                                             |
| Image Sensor            |               | 1/2.7" progressive scan low lux CMOS                                              | 1/2.7" progressive scan low lux CMOS                                                        |
| Picture Elements        |               | 1920 (H) x 1080 (V)                                                               | 1920 (H) x 1080 (V)                                                                         |
| Minimum Illumination    | Color         | 0.005 Lux (F1.6, AGC ON)                                                          | 0.01 Lux (F2.0, AGC ON)                                                                     |
|                         | B/W           | N/A                                                                               | N/A                                                                                         |
|                         | IR ON         | 0 Lux                                                                             | 0 Lux                                                                                       |
| Shutter Speed           |               | Auto / Manual (1/6 ~ 1/100000 s)                                                  | Auto / Manual (1 ~ 1/100000 sec)                                                            |
| White Balance           |               | Auto / Manual                                                                     | Auto / Manual                                                                               |
| Gain Control            |               | Auto / Manual                                                                     | Auto / Manual                                                                               |
| S/N Ratio               |               | 52 dB                                                                             | 52 dB                                                                                       |
| WDR                     |               | Yes                                                                               | Yes                                                                                         |
| Dynamic Range           |               | Up to 72 dB                                                                       | Up to 120 dB                                                                                |
| Operation               |               |                                                                                   |                                                                                             |
| Video Compression       |               | H.265, H.264, MJPEG                                                               | H.265, H.264, MJPEG                                                                         |
| Video Streaming         |               | Triple streams                                                                    | Dual streams                                                                                |
| Frame Rate              |               | 30 fps at 1920 x 1080                                                             | 30 fps at 1920 x 1080                                                                       |
| Audio Compression       |               | N/A                                                                               | G.711                                                                                       |
| Audio Support           |               | N/A                                                                               | One-way Audio                                                                               |
| Optical Lens            |               |                                                                                   |                                                                                             |
| Day/Night               |               | Yes (with removable IR-cut filter)                                                | Yes (with removable IR-cut filter)                                                          |
| Lens Type               |               | Fixed                                                                             | Fixed                                                                                       |
| Focal Length            |               | 2.8 mm                                                                            | 2.8 mm                                                                                      |
| Maximum Aperture        |               | F/1.4                                                                             | F/2.0                                                                                       |
| Mount                   |               | M12                                                                               | M12                                                                                         |
| Image Format            |               | 1/2.7"                                                                            | 1/2.7"                                                                                      |
| Horizontal FOV          |               | 109.9°                                                                            | 113°                                                                                        |
| Operation               | Focus         | Fixed                                                                             | Fixed                                                                                       |
|                         | Zoom          |                                                                                   |                                                                                             |
|                         | Iris          |                                                                                   |                                                                                             |
| IR LED Quantity         |               | 1 IR LED                                                                          | 1 IR LED                                                                                    |
| Max. IR Distance        |               | 30 m (100 ft)                                                                     | 30 m (100 ft)                                                                               |
| Mechanical              |               |                                                                                   |                                                                                             |
| Camera Angle Adjustment | Pan           | 0° ~ 360°                                                                         | 0° ~ 360°                                                                                   |
|                         | Tilt          | 0° ~ 90°                                                                          | 0° ~ 90°                                                                                    |
|                         | Rotate        | 0° ~ 360°                                                                         | 0° ~ 360°                                                                                   |
| 3-axis Mechanism        |               | Yes                                                                               | Yes                                                                                         |
| Connectors              | Power         | DC Jack, PoE                                                                      | DC Jack, PoE                                                                                |
|                         | Ethernet      | RJ-45 connector (10/100 Base-T)                                                   | RJ-45 connector (10/100 Base-T)                                                             |
|                         | Audio         | N/A                                                                               | 1 In (built-in microphone)                                                                  |
|                         | TV-Out        | N/A                                                                               | N/A                                                                                         |
|                         | Local Storage | N/A                                                                               | Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported. |
| LED Indicator           |               | N/A                                                                               | N/A                                                                                         |
| Temperature Detector    |               |                                                                                   |                                                                                             |
| General                 |               |                                                                                   |                                                                                             |
| Environment Temperature | Start-up      | -35°C ~ 60°C (-31°F ~ 140°F)                                                      | -30 °C ~ 60 °C (-22 °F ~ 140 °F)                                                            |
|                         | Operation     |                                                                                   |                                                                                             |
| Humidity                |               | 0% ~ 95% (no condensation)                                                        | 10% ~ 90% (no condensation)                                                                 |
| Power Source            |               | 12V DC / PoE (IEEE 802.3af)                                                       | 12V DC / PoE (IEEE802.3af)                                                                  |
| Max. Power Consumption  |               | 5.5 W                                                                             | 7.0 W                                                                                       |
| Regulatory              |               | CE, FCC, RoHS compliant                                                           | FCC, CE, RoHS compliant                                                                     |
| Dimensions (L X W X H)  |               | Ø 126 x 94 mm (Ø 5.0" x 3.7")                                                     | Ø 126 x 94 mm (Ø 5.0" x 3.7")                                                               |
| Weight                  |               | 0.33 kg (0.73 lb)                                                                 | 0.45 kg (0.99 lb)                                                                           |
| Ingress Protection      |               | IP67                                                                              | IP67                                                                                        |
| Vandal Resistance       |               | N/A                                                                               | N/A                                                                                         |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 10)

|                         |               | GV-EBD4700                                                                        | GV-EBD4701                                                                               | GV-EBD4704                                                                               | GV-EBD4711                                                                               | GV-EBD4712                                                                               |
|-------------------------|---------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|                         |               |  |                                                                                          |                                                                                          |       |                                                                                          |
| Camera                  |               |                                                                                   |                                                                                          |                                                                                          |                                                                                          |                                                                                          |
| Image Sensor            |               | 1/3" progressive scan super low lux CMOS                                          |                                                                                          |                                                                                          | 1/3" progressive scan super low lux CMOS                                                 |                                                                                          |
| Picture Elements        |               | 2592 (H) x 1520 (V)                                                               | 2688 (H) x 1520 (V)                                                                      | 2688 (H) x 1520 (V)                                                                      | 2592 (H) x 1520 (V)                                                                      | 2688 (H) x 1520 (V)                                                                      |
| Minimum Illumination    | Color         | 0.02 Lux (F2.0, AGC ON)                                                           | 0.01 Lux (F2.0, AGC ON)                                                                  | 0.003 Lux (F1.6, AGC ON)                                                                 | 0.005 Lux (F1.4, AGC ON)                                                                 | 0.003 Lux (F1.6, AGC ON)                                                                 |
|                         | B/W           | N/A                                                                               | N/A                                                                                      | N/A                                                                                      | N/A                                                                                      | N/A                                                                                      |
|                         | IR ON         | 0 Lux                                                                             | 0 Lux                                                                                    | 0 Lux                                                                                    | 0 Lux                                                                                    | 0 Lux                                                                                    |
| Shutter Speed           |               | Auto / Manual (1/6 ~ 1/8000 s)                                                    | Auto / Manual (1/6 ~ 1/100000 s)                                                         | Auto / Manual (1 ~ 1/100000 s)                                                           | Auto / Manual (1/6 ~ 1/100000 s)                                                         | Auto / Manual (1/6 ~ 1/100000 s)                                                         |
| White Balance           |               | Auto / Manual                                                                     | Auto / Manual                                                                            | Auto / Manual                                                                            | Auto / Manual                                                                            | Auto / Manual                                                                            |
| Gain Control            |               | Auto / Manual                                                                     | Auto / Manual                                                                            | Auto / Manual                                                                            | Auto / Manual                                                                            | Auto / Manual                                                                            |
| S/N Ratio               |               | 52 dB                                                                             | 56 dB                                                                                    | 56 dB                                                                                    | 52 dB                                                                                    | 56 dB                                                                                    |
| WDR                     |               | WDR Pro                                                                           | WDR Pro                                                                                  | WDR Pro                                                                                  | WDR Pro                                                                                  | WDR Pro                                                                                  |
| Dynamic Range           |               | Up to 120 dB                                                                      | Up to 120 dB                                                                             | Up to 120 dB                                                                             | Up to 120 dB                                                                             | Up to 120 dB                                                                             |
| Operation               |               |                                                                                   |                                                                                          |                                                                                          |                                                                                          |                                                                                          |
| Video Compression       |               | H.265, H.264, MJPEG                                                               | H.265                                                                                    | H.265, H.264, MJPEG                                                                      | MJPEG                                                                                    | H.265                                                                                    |
| Video Streaming         |               | Triple streams                                                                    | Triple streams                                                                           | Dual streams                                                                             | Triple streams                                                                           | Triple streams                                                                           |
| Frame Rate              |               | 20 fps at 2592 x 1520                                                             | 30 fps at 2688 x 1520                                                                    | 30 fps at 2688 x 1520                                                                    | 20 fps at 2592 x 1520                                                                    | 30 fps at 2688 x 1520                                                                    |
|                         |               | 25 fps at 2560 x 1440                                                             | 30 fps at 2560 x 1440                                                                    | 30 fps at 2560 x 1440                                                                    | 25 fps at 2560 x 1440                                                                    | 30 fps at 2560 x 1440                                                                    |
|                         |               | 30 fps at 2048 x 1520                                                             | 30 fps at 1920 x 1080                                                                    | 30 fps at 2304 x 1296                                                                    | 30 fps at 2048 x 1520                                                                    | 30 fps at 1920 x 1080                                                                    |
| Audio Compression       |               | N/A                                                                               | G.711                                                                                    | G.711                                                                                    | N/A                                                                                      | G.711                                                                                    |
| Audio Support           |               | N/A                                                                               | One-way Audio                                                                            | One-way Audio                                                                            | One-way Audio                                                                            | One-way Audio                                                                            |
| Optical Lens            |               |                                                                                   |                                                                                          |                                                                                          |                                                                                          |                                                                                          |
| Day/Night               |               | Yes (with removable IR-cut filter)                                                | Yes (with removable IR-cut filter)                                                       | Yes (with removable IR-cut filter)                                                       | Yes (with removable IR-cut filter)                                                       | Yes (with removable IR-cut filter)                                                       |
| Lens Type               |               | Fixed                                                                             | Fixed                                                                                    | Fixed                                                                                    | Motorized varifocal lens                                                                 | Motorized varifocal lens                                                                 |
| Focal Length            |               | 2.8 mm                                                                            | 2.8 mm                                                                                   | 2.8 mm                                                                                   | 2.7 ~ 12 mm                                                                              | 2.8 ~ 12 mm                                                                              |
| Maximum Aperture        |               | F/2.0                                                                             | F/2.0                                                                                    | F/1.6                                                                                    | F/1.4                                                                                    | F/1.6                                                                                    |
| Mount                   |               | M12                                                                               | M12                                                                                      | M12                                                                                      | M12                                                                                      | M12                                                                                      |
| Image Format            |               | 1/3"                                                                              | 1/3"                                                                                     | 1/3"                                                                                     | 1/3"                                                                                     | 1/3"                                                                                     |
| Horizontal FOV          |               | 100°                                                                              | 107°                                                                                     | 101°                                                                                     | 91.0°~27.0°                                                                              | 98°~31°                                                                                  |
| Operation               | Focus         | Fixed                                                                             | Fixed                                                                                    | Fixed                                                                                    | Auto / Manual                                                                            | Auto / Manual                                                                            |
|                         | Zoom          |                                                                                   |                                                                                          |                                                                                          | 4.4x Optical Zoom                                                                        | 4.3x Optical Zoom                                                                        |
|                         | Iris          |                                                                                   |                                                                                          |                                                                                          | Fixed                                                                                    | Fixed                                                                                    |
| IR LED Quantity         |               | 1 IR LED                                                                          | 1 IR LED                                                                                 | 1 IR LED                                                                                 | 2 IR LEDs                                                                                | 2 IR LEDs                                                                                |
| Max. IR Distance        |               | 30 m (100 ft)                                                                     | 30 m (100 ft)                                                                            | 30 m (100 ft)                                                                            | 30 m (100 ft)                                                                            | 30 m (100 ft)                                                                            |
| Mechanical              |               |                                                                                   |                                                                                          |                                                                                          |                                                                                          |                                                                                          |
| Camera Angle Adjustment | Pan           | 0° ~ 360°                                                                         | 0° ~ 360°                                                                                | 0° ~ 360°                                                                                | 0° ~ 360°                                                                                | 0° ~ 360°                                                                                |
|                         | Tilt          | 0° ~ 90°                                                                          | 0° ~ 90°                                                                                 | 0° ~ 90°                                                                                 | 0° ~ 75°                                                                                 | 0° ~ 90°                                                                                 |
|                         | Rotate        | 0° ~ 360°                                                                         | 0° ~ 360°                                                                                | 0° ~ 360°                                                                                | 0° ~ 360°                                                                                | 0° ~ 360°                                                                                |
| 3-axis Mechanism        |               | Yes                                                                               | Yes                                                                                      | Yes                                                                                      | Yes                                                                                      | Yes                                                                                      |
| Connectors              | Power         | DC Jack, PoE                                                                      | DC Jack, PoE                                                                             | DC Jack, PoE                                                                             | DC Jack, PoE                                                                             | DC Jack, PoE                                                                             |
|                         | Ethernet      | RJ-45 connector (10/100 Base-T)                                                   | RJ-45 connector (10/100 Base-T)                                                          | RJ-45 connector (10/100 Base-T)                                                          | RJ-45 connector (10/100 Base-T)                                                          | RJ-45 connector (10/100 Base-T)                                                          |
|                         | Audio         | N/A                                                                               | 1 In (built-in microphone)                                                               | 1 In (built-in microphone)                                                               | 1 In (built-in microphone)                                                               | 1 In (built-in microphone)                                                               |
|                         | TV-Out        | N/A                                                                               | N/A                                                                                      | N/A                                                                                      | N/A                                                                                      | N/A                                                                                      |
|                         | Local Storage | N/A                                                                               | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported. | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported. | Micro SD card slot (SD/SDHC/SDXC/UHS-I, class 10)<br>*UHS-II card type is not supported. | Micro SD card slot (SD/SDHC/SDXC/UHS-I, class 10)<br>*UHS-II card type is not supported. |
| LED Indicator           |               | N/A                                                                               | N/A                                                                                      | N/A                                                                                      | N/A                                                                                      | N/A                                                                                      |
| Temperature Detector    |               |                                                                                   |                                                                                          |                                                                                          |                                                                                          |                                                                                          |
| General                 |               |                                                                                   |                                                                                          |                                                                                          |                                                                                          |                                                                                          |
| Environment             | Start-up      | -35°C ~ 60°C (-31°F ~ 140°F)                                                      | -30°C ~ 60°C (-31°F ~ 140°F)                                                             | -30°C ~ 60°C (-22°F ~ 140°F)                                                             | -40°C ~ 60°C (-40°F ~ 140°F)                                                             | -40°C ~ 60°C (-40°F ~ 140°F)                                                             |
| Temperature             | Operation     |                                                                                   |                                                                                          |                                                                                          |                                                                                          |                                                                                          |
| Humidity                |               | 0% ~ 95% (no condensation)                                                        | 0% ~ 95% (no condensation)                                                               | 0% ~ 95% (no condensation)                                                               | 0% ~ 95% (no condensation)                                                               | 0% ~ 95% (no condensation)                                                               |
| Power Source            |               | 12V DC / PoE (IEEE 802.3af)                                                       |                                                                                          |                                                                                          | 12V DC / PoE (IEEE 802.3af)                                                              | 12V DC / PoE (IEEE 802.3af)                                                              |
| Max. Power Consumption  |               | 5.5 W                                                                             | 5.5 W                                                                                    | 6 W                                                                                      | 8.16 W                                                                                   | 8.16 W                                                                                   |
| Regulatory              |               | CE, FCC, RoHS compliant                                                           | CE, FCC, RoHS                                                                            | CE, FCC, RoHS                                                                            | CE, FCC, RoHS compliant                                                                  | CE, FCC, RoHS                                                                            |
| Dimensions (L X W X H)  |               | Ø 126 x 94 mm (Ø 5.0" x 3.7")                                                     | Ø 126 x 94 mm (Ø 5.0" x 3.7")                                                            | Ø 126 x 94 mm (Ø 5.0" x 3.7")                                                            | Ø 129 x 110 mm (Ø 5.08" x 4.3")                                                          | Ø 129 x 110 mm (Ø 5.08" x 4.3")                                                          |
| Weight                  |               | 0.45 kg (0.99 lb)                                                                 | 0.45 kg (0.99 lb)                                                                        | 0.45 kg (0.99 lb)                                                                        | 0.67 kg (1.48 lb)                                                                        | 0.67 kg (1.48 lb)                                                                        |
| Ingress Protection      |               | IP67                                                                              | IP67                                                                                     | IP67                                                                                     | IP67                                                                                     | IP67                                                                                     |
| Vandal Resistance       |               | N/A                                                                               | N/A                                                                                      | N/A                                                                                      | IK10 for metal casing                                                                    | IK10 for metal casing                                                                    |

Note: Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 11)

|                         |               | GV-EBD8700                                                                        | GV-EBD8711                                                                            |
|-------------------------|---------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                         |               |  |    |
| Camera                  |               |                                                                                   |                                                                                       |
| Image Sensor            |               | 1/2.5" progressive scan low lux CMOS                                              | 1/2" progressive scan super low lux CMOS                                              |
| Picture Elements        |               | 3840 (H) x 2160 (V)                                                               | 3840 (H) x 2160 (V)                                                                   |
| Minimum Illumination    | Color         | 0.05 Lux (F2.0, AGC ON)                                                           | 0.003 Lux (F1.5, AGC ON)                                                              |
|                         | B/W           | N/A                                                                               | N/A                                                                                   |
|                         | IR ON         | 0 Lux                                                                             | 0 Lux                                                                                 |
| Shutter Speed           |               | Auto / Manual (1/6 ~ 1/100000 s)                                                  | Auto / Manual (1/6 ~ 1/100000 s)                                                      |
| White Balance           |               | Auto / Manual                                                                     | Auto / Manual                                                                         |
| Gain Control            |               | Auto / Manual                                                                     | Auto / Manual                                                                         |
| S/N Ratio               |               | 52 dB                                                                             | 52 dB                                                                                 |
| WDR                     |               | WDR Pro                                                                           | WDR Pro                                                                               |
| Dynamic Range           |               | Up to 120 dB                                                                      | Up to 120 dB                                                                          |
| Operation               |               |                                                                                   |                                                                                       |
| Video Compression       |               | H.264                                                                             | H.264                                                                                 |
| Video Streaming         |               | Triple streams                                                                    | Triple streams                                                                        |
| Frame Rate              |               | 20 fps at 3840 x 2160<br>30 fps at 2944 x 1656 / 2592 x 1944 / 2560 x 1440        | 20 fps at 3840 x 2160<br>30 fps at 2944 x 1656 / 2592 x 1944 / 2560 x 1440            |
| Audio Compression       |               | N/A                                                                               | N/A                                                                                   |
| Audio Support           |               | N/A                                                                               | One-way Audio                                                                         |
| Optical Lens            |               |                                                                                   |                                                                                       |
| Day/Night               |               | Yes (with removable IR-cut filter)                                                | Yes (with removable IR-cut filter)                                                    |
| Lens Type               |               | Fixed                                                                             | Motorized varifocal lens                                                              |
| Focal Length            |               | 2.8 mm                                                                            | 2.8 ~ 12 mm                                                                           |
| Maximum Aperture        |               | F/2.0                                                                             | F/1.5                                                                                 |
| Mount                   |               | M12                                                                               | M12                                                                                   |
| Image Format            |               | 1/2.5"                                                                            | 1/2"                                                                                  |
| Horizontal FOV          |               | 106°                                                                              | 114.8° ~ 47.3°                                                                        |
| Operation               | Focus         |                                                                                   | Auto / Manual                                                                         |
|                         | Zoom          | Fixed                                                                             | 4.3x Optical Zoom                                                                     |
|                         | Iris          |                                                                                   | Fixed                                                                                 |
| IR LED Quantity         |               | 1 IR LED                                                                          | 2 IR LEDs                                                                             |
| Max. IR Distance        |               | 30 m (100 ft)                                                                     | 30 m (100 ft)                                                                         |
| Mechanical              |               |                                                                                   |                                                                                       |
| Camera Angle Adjustment | Pan           | 0° ~ 360°                                                                         | 0° ~ 360°                                                                             |
|                         | Tilt          | 0° ~ 90°                                                                          | 0° ~ 75°                                                                              |
|                         | Rotate        | 0° ~ 360°                                                                         | 0° ~ 360°                                                                             |
| 3-axis Mechanism        |               | Yes                                                                               | Yes                                                                                   |
| Connectors              | Power         | PoE                                                                               | DC Jack                                                                               |
|                         | Ethernet      | RJ-45 connector (10/100 Base-T)                                                   | RJ-45 connector (10/100 Base-T)                                                       |
|                         | Audio         | N/A                                                                               | 1 In (built-in microphone)                                                            |
|                         | TV-Out        | N/A                                                                               | N/A                                                                                   |
|                         | Local Storage | N/A                                                                               | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported. |
| LED Indicator           |               |                                                                                   |                                                                                       |
| Temperature Detector    |               | N/A                                                                               | N/A                                                                                   |
| General                 |               |                                                                                   |                                                                                       |
| Environment Temperature | Start-up      |                                                                                   |                                                                                       |
|                         | Operation     | -35°C ~ 60°C (-31°F ~ 140°F)                                                      | -40°C ~ 60°C (-40°F ~ 140°F)                                                          |
| Humidity                |               | 0% ~ 90% (no condensation)                                                        | 0% ~ 95% (no condensation)                                                            |
| Power Source            |               | 12V DC / PoE (IEEE 802.3af)                                                       | 12V DC / PoE (IEEE 802.3af)                                                           |
| Max. Power Consumption  |               | 5.5 W                                                                             | 8.16 W                                                                                |
| Regulatory              |               | CE, FCC, RoHS compliant                                                           | CE, FCC, RoHS compliant                                                               |
| Dimensions (L X W X H)  |               | Ø 126 x 94 mm (Ø 5.0" x 3.7")                                                     | Ø 129 x 110 mm (Ø 5.08" x 4.3")                                                       |
| Weight                  |               | 0.45 kg (0.99 lb)                                                                 | 0.67 kg (1.48 lb)                                                                     |
| Ingress Protection      |               | IP67                                                                              | IP67                                                                                  |
| Vandal Resistance       |               | N/A                                                                               | IK10 for metal casing                                                                 |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 12)

| GV-EFD2101                                                                        |               |                                                           |
|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------|
|  |               |                                                           |
| Camera                                                                            |               |                                                           |
| Image Sensor                                                                      |               | 1/2.8" progressive scan super low lux CMOS                |
| Picture Elements                                                                  |               | 1920 (H) x 1080 (V)                                       |
| Minimum Illumination                                                              | Color         | 0.005 Lux                                                 |
|                                                                                   | B/W           | 0.004 Lux                                                 |
|                                                                                   | IR ON         | 0 Lux                                                     |
| Shutter Speed                                                                     |               | Auto / Manual (1/5 ~ 1/8000 sec)                          |
| White Balance                                                                     |               | Auto / Manual (2800K ~ 8500K)                             |
| Gain Control                                                                      |               | Automatic                                                 |
| S/N Ratio                                                                         |               | 56 dB                                                     |
| WDR                                                                               |               | Yes                                                       |
| Dynamic Range                                                                     |               | Up to 72 dB                                               |
| Operation                                                                         |               |                                                           |
| Video Compression                                                                 |               | H.264, MJPEG                                              |
| Video Streaming                                                                   |               | Dual streams                                              |
| Frame Rate                                                                        |               | 30 fps at 1920 x 1080                                     |
| Audio Compression                                                                 |               | G.711                                                     |
| Audio Support                                                                     |               | Two-way Audio (external microphone and speaker required)  |
| Optical Lens                                                                      |               |                                                           |
| Day/Night                                                                         |               | Yes (with removable IR-cut filter)                        |
| Lens Type                                                                         |               | Varifocal                                                 |
| Focal Length                                                                      |               | 3 ~ 9 mm                                                  |
| Maximum Aperture                                                                  |               | F/1.7                                                     |
| Mount                                                                             |               | Ø 14 mm                                                   |
| Image Format                                                                      |               | 1/2.8"                                                    |
| Horizontal FOV                                                                    |               | 102° ~ 40°                                                |
| Operation                                                                         | Focus         | Manual (with lock)                                        |
|                                                                                   | Zoom          | Manual (with lock)                                        |
|                                                                                   | Iris          | P-Iris                                                    |
| IR LED Quantity                                                                   |               | 20 IR LEDs                                                |
| Max. IR Distance                                                                  |               | 50 m (165 ft)                                             |
| Mechanical                                                                        |               |                                                           |
| Camera Angle Adjustment                                                           | Pan           | 0° ~ 350°                                                 |
|                                                                                   | Tilt          | 0° ~ 75°                                                  |
|                                                                                   | Rotate        | 0° ~ 340°                                                 |
| 3-axis Mechanism                                                                  |               | Yes                                                       |
| Connectors                                                                        | Power         | 2-pin terminal block, PoE                                 |
|                                                                                   | Ethernet      | Ethernet (10/100 Base-T), RJ-45 cable                     |
|                                                                                   | Audio         | 1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack) |
|                                                                                   | TV-Out        | BNC connector (640 x 480 resolution)                      |
|                                                                                   | Local Storage | N/A                                                       |
| LED Indicator                                                                     |               | 2 LEDs: Power, Status                                     |
| Temperature Detector                                                              |               | Yes                                                       |
| General                                                                           |               |                                                           |
| Environment                                                                       | Start-up      | 0 °C ~ 50 °C (32 °F ~ 122 °F)                             |
| Temperature                                                                       | Operation     |                                                           |
| Humidity                                                                          |               | 10% to 90% (no condensation)                              |
| Power Source                                                                      |               | 12V DC / PoE (IEEE 802.3af)                               |
| Max. Power Consumption                                                            |               | 5.8 W                                                     |
| Regulatory                                                                        |               | CE, FCC, RCM, RoHS compliant                              |
| Dimensions (L X W X H)                                                            |               | Ø 125 x 99.5 mm (4.92" x 3.92")                           |
| Weight                                                                            |               | 470 g (1.04 lb)                                           |
| Ingress Protection                                                                |               | N/A                                                       |

### Note:

- The TV-Out function only works in 640x480 resolution. For TV-Out to work properly, you must set the resolution to 1280x1024 or lower. If both streams are enabled, the Sub Stream must be set to 640x480.
- Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 13)

|                           |               | GV-EVD2100                                                                        | GV-EVD3100                                 | GV-EVD5100                   |
|---------------------------|---------------|-----------------------------------------------------------------------------------|--------------------------------------------|------------------------------|
|                           |               |  |                                            |                              |
| Camera                    |               |                                                                                   |                                            |                              |
| Image Sensor              |               | 1/2.8" progressive scan super low lux CMOS                                        | 1/2.8" progressive scan super low lux CMOS | 1/3.2" progressive scan CMOS |
| Picture Elements          |               | 1920 (H) x 1080 (V)                                                               | 2048 (H) x 1536 (V)                        | 2592 (H) x 1944 (V)          |
| Minimum Illumination      | Color         | 0.005 Lux                                                                         | 0.01 Lux                                   | 0.12 Lux                     |
|                           | B/W           | 0.004 Lux                                                                         | 0.01 Lux                                   | 0.10 Lux                     |
|                           | IR ON         | 0 Lux                                                                             |                                            |                              |
| Shutter Speed             |               | Auto, Manual (1/5 ~ 1/8000 sec)                                                   |                                            |                              |
| White Balance             |               | Auto, Manual (2800K ~ 8500K)                                                      |                                            |                              |
| Gain Control              |               | Auto                                                                              |                                            |                              |
| S/N Ratio                 |               | 56 dB                                                                             | 54 dB                                      | 46 dB                        |
| WDR Pro (with WDR sensor) |               | N/A                                                                               | Yes                                        |                              |
| Dynamic Range             |               | Up to 72 dB                                                                       | Up to 100 dB                               | Up to 72 dB                  |
| Operation                 |               |                                                                                   |                                            |                              |
| Video Compression         |               | H.264, MJPEG                                                                      |                                            |                              |
| Video Streaming           |               | Dual streams                                                                      |                                            |                              |
| Frame Rate                |               | 30 fps at 1920 x 1080                                                             | 30 fps at 2048 x 1536                      | 30 fps at 2592 x 1944        |
| Audio Compression         |               | G.711                                                                             |                                            |                              |
| Audio Support             |               | Two-way Audio (external microphone and speaker required)                          |                                            |                              |
| Optical Lens              |               |                                                                                   |                                            |                              |
| Day/Night                 |               | Yes                                                                               |                                            |                              |
| Lens Type                 |               | Varifocal                                                                         |                                            |                              |
| Focal Length              |               | 3 ~ 9 mm                                                                          |                                            |                              |
| Maximum Aperture          |               | F/1.7                                                                             |                                            |                              |
| Mount                     |               | Ø 14 mm                                                                           |                                            |                              |
| Image Format              |               | 1/2.8"                                                                            |                                            | 1/3.2"                       |
| Horizontal FOV            |               | 102° ~ 40°                                                                        | 96° ~ 36°                                  | 92° ~ 32°                    |
| Operation                 | Focus         | Manual (with lock)                                                                |                                            |                              |
|                           | Zoom          | Manual (with lock)                                                                |                                            |                              |
|                           | Iris          | P-Iris                                                                            |                                            |                              |
| IR LED Quantity           |               | 20 IR LEDs                                                                        |                                            |                              |
| Max. IR Distance          |               | 50 m (165 ft)                                                                     |                                            | 30 m (100 ft)                |
| Mechanical                |               |                                                                                   |                                            |                              |
| Camera Angle Adjustment   | Pan           | 0° ~ 350°                                                                         |                                            |                              |
|                           | Tilt          | 0° ~ 75°                                                                          |                                            |                              |
|                           | Rotate        | 0° ~ 340°                                                                         |                                            |                              |
| 3-axis Mechanism          |               | Yes                                                                               |                                            |                              |
| Connectors                | Power         | 2-pin terminal block, PoE                                                         |                                            |                              |
|                           | Ethernet      | Ethernet (10/100 Base-T), RJ-45 cable                                             |                                            |                              |
|                           | Audio         | 1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)                         |                                            |                              |
|                           | TV-Out        | BNC connector (640 x 480 resolution)                                              |                                            |                              |
|                           | Digital I/O   | N/A                                                                               |                                            |                              |
|                           | Local Storage | N/A                                                                               |                                            |                              |
| LED Indicator             |               | 2 LEDs: Power, Status                                                             |                                            |                              |
| Temperature Detector      |               | Yes                                                                               |                                            |                              |
| General                   |               |                                                                                   |                                            |                              |
| Environment               | Start-up      | -20 °C ~ 50 °C (-4 °F ~ 122 °F)                                                   |                                            |                              |
| Temperature               | Operation     | -30 °C ~ 50 °C (-22 °F ~ 122 °F)                                                  |                                            |                              |
| Humidity                  |               | 10% to 90% (no condensation)                                                      |                                            |                              |
| Power Source              |               | 12V DC / PoE (IEEE 802.3af)                                                       |                                            |                              |
| Max. Power Consumption    |               | 6.1 W                                                                             |                                            | 7 W                          |
| Regulatory                |               | CE, FCC, RCM, RoHS compliant                                                      |                                            |                              |
| Dimensions (L X W X H)    |               | Ø 160 x 108.4 mm (6.2" x 4.27")                                                   |                                            |                              |
| Weight                    |               | 1.15 kg (2.54 lb)                                                                 |                                            |                              |
| Ingress Protection        |               | IP67                                                                              |                                            |                              |
| Vandal Resistance         |               | IK10                                                                              |                                            |                              |

### Note:

- The TV-Out function only works in 640x480 resolution. For TV-Out to work properly, you must set the resolution to 1280x1024 or lower. If both streams are enabled, the Sub Stream must be set to 640x480.
- Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 14)

|                           |               | GV-AVD2700                                                                            | GV-TVD4700                               | GV-TVD4711                                                         | GV-AVD4710                                                          | GV-TVD4710                                   | GV-AVD8710                                                               | GV-TVD8710 |
|---------------------------|---------------|---------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------|------------|
|                           |               |      |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Camera                    |               |                                                                                       |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Image Sensor              |               | 1/2.8" progressive scan low lux CMOS                                                  | 1/3" progressive scan super low lux CMOS |                                                                    |                                                                     |                                              | 1/2" progressive scan super low lux CMOS                                 |            |
| Picture Elements          |               | 1920 (H) x 1080 (V)                                                                   | 2592(H) x 1520 (V)                       | 2688 (H) x 1520 (V)                                                | 2592 (H) x 1520 (V)                                                 |                                              | 3840 (H) x 2160 (V)                                                      |            |
| Minimum Illumination      | Color         | 0.001 Lux (F1.6, AGC ON)                                                              | 0.01 Lux (F1.6, AGC ON)                  | 0.003 Lux (F1.6, AGC ON)                                           | 0.005 Lux (F1.4, AGC ON)                                            |                                              | 0.003 Lux (F1.5, AGC ON)                                                 |            |
|                           | B/W           | N/A                                                                                   |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
|                           | IR ON         | 0 Lux                                                                                 |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Shutter Speed             |               | Auto / Manual (1/6 ~ 1/100000 sec)                                                    | Automatic, Manual (1/25 ~ 1/100000 sec)  | Auto / Manual (1/6 ~ 1/100000 sec)                                 | Auto / Manual (1/6 ~ 1/100000 sec)                                  |                                              |                                                                          |            |
| White Balance             |               | Auto / Manual                                                                         |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Gain Control              |               | Auto / Manual                                                                         |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| S/N Ratio                 |               | 52 dB                                                                                 |                                          | 56 dB                                                              | 55 dB                                                               | 56dB                                         | 52 dB                                                                    |            |
| WDR Pro (with WDR sensor) |               | Yes                                                                                   |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Dynamic Range             |               | Up to 120 dB                                                                          | Up to 72 dB                              | Up to 120 dB                                                       | Up to 120 dB                                                        |                                              |                                                                          |            |
| Operation                 |               |                                                                                       |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Video Compression         |               | H.265, H.264, MJPEG                                                                   |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Video Streaming           |               | Triple streams                                                                        |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Frame Rate                |               | 30 fps at 1920 x 1080                                                                 | 20 fps at 2592 x 1520                    | 30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x1296 | 20 fps at 2592 x 1520, 25 fps at 2560 x 1440, 30 fps at 2048 x 1520 |                                              | 20 fps at 3840 x 2160, 30 fps at 2944 x 1656 / 2592 x 1944 / 2560 x 1440 |            |
| Audio Compression         |               | G.711                                                                                 | N/A                                      | G.711                                                              | G.711                                                               |                                              |                                                                          |            |
| Audio Support             |               | Two-way Audio (external microphone and speaker required)                              | N/A                                      | Two-way Audio (external microphone and speaker required)           |                                                                     |                                              |                                                                          |            |
| Optical Lens              |               |                                                                                       |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Day/Night                 |               | Yes (with removable IR-cut filter)                                                    |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Lens Type                 |               | Varifocal                                                                             |                                          | Motorized varifocal                                                |                                                                     |                                              |                                                                          |            |
| Focal Length              |               | 2.8 ~ 12 mm                                                                           |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Maximum Aperture          |               | F/1.6                                                                                 |                                          |                                                                    | F/1.4                                                               |                                              | F/1.5                                                                    |            |
| Mount                     |               | Ø 14 mm                                                                               |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Image Format              |               | 1/2.8"                                                                                | 1/3"                                     |                                                                    | 1/3"                                                                |                                              | 1/2"                                                                     |            |
| Horizontal FOV            |               | 108° ~ 30°                                                                            | 97° ~ 29°                                | 98~ 31°                                                            | 91° ~ 27°                                                           |                                              | 114.8° ~ 47.3°                                                           |            |
| Operation                 | Focus         | Manual (with lock)                                                                    |                                          |                                                                    | Auto / Manual                                                       |                                              |                                                                          |            |
|                           | Zoom          | Manual (with lock)                                                                    |                                          | 4.3x Optical Zoom                                                  | 4.3x Optical Zoom                                                   |                                              |                                                                          |            |
|                           | Iris          | Fixed                                                                                 |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| IR LED Quantity           |               | 2 IR LEDs                                                                             |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Max. IR Distance          |               | 30 m (100 ft)                                                                         |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Mechanical                |               |                                                                                       |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Camera Angle Adjustment   | Pan           | 0° ~ 360°                                                                             |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
|                           | Tilt          | 0° ~ 80°                                                                              |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
|                           | Rotate        | 0° ~ 360°                                                                             |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| 3-axis Mechanism          |               | Yes                                                                                   |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Connectors                | Power         | DC Jack, PoE                                                                          |                                          | 2-pin terminal block (DC 12V, 1.25 A), PoE                         |                                                                     | DC Jack, PoE                                 |                                                                          |            |
|                           | Ethernet      | Ethernet (10/100 Base-T), RJ-45 cable                                                 |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
|                           | Audio         | 1 in (Audio In Wire), 1 out (Audio Out Wire)                                          | N/A                                      | 4-pin terminal block pitch 2.5 mm (0.1") (Audio In & Out)          |                                                                     | 1 in (Audio In Wire), 1 out (Audio Out Wire) |                                                                          |            |
|                           | TV-Out        | BNC connector (640 x 480 resolution)                                                  |                                          | N/A                                                                |                                                                     | BNC connector (640 x 480 resolution)         |                                                                          |            |
|                           | Digital I/O   | 4-pin terminal block, pitch 3.5 mm/0.14"                                              | N/A                                      | 4-pin terminal block pitch 2.5 mm/0.1"                             |                                                                     | 4-pin terminal block, pitch 3.5 mm/0.14"     |                                                                          |            |
|                           | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, class 10) *UHS-II card type is not supported. |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| General                   |               |                                                                                       |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Environment Temperature   | Start-up      | -40°C ~ 60°C (-40°F ~ 140°F)                                                          |                                          | -35~ 60°C (-31 ~ 140°F)                                            |                                                                     | -40°C ~ 60°C (-40°F ~ 140°F)                 |                                                                          |            |
|                           | Operation     |                                                                                       |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Humidity                  |               | 0 ~ 95% (no condensation)                                                             |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Power Source              |               | 12V DC / PoE (IEEE 802.3af)                                                           |                                          |                                                                    |                                                                     |                                              |                                                                          |            |
| Max. Power Consumption    |               | 7.2 W                                                                                 | 7 W                                      | 8.7 W                                                              | 7.2 W                                                               |                                              | 8 W                                                                      |            |
| Regulatory                |               | CE, FCC, RoHS compliant                                                               | CE, FCC, RoHS compliant                  |                                                                    |                                                                     | CE, FCC, RoHS compliant                      |                                                                          |            |
| Dimensions (L X W X H)    |               | Ø 148 x 111.3 mm (5.8" x 4.4")                                                        |                                          |                                                                    | Ø 125.8 x 99.9 mm (4.9" x 3.93")                                    |                                              | Ø 148 x 111.3 mm (5.8" x 4.4")                                           |            |
| Weight                    |               | 0.75 kg (1.7 lb)                                                                      | 0.92 kg (2 lb)                           |                                                                    |                                                                     | 0.75 kg (1.7 lb)                             |                                                                          |            |
| Ingress Protection        |               | IP67                                                                                  |                                          |                                                                    | IP66                                                                |                                              | IP67                                                                     |            |
| Vandal Resistance         |               | IK10 for metal casing                                                                 |                                          |                                                                    |                                                                     |                                              |                                                                          |            |

### Note:

- The TV-Out function only works in 640x480 resolution. For TV-Out to work properly, you must set the resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640x480.
- Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Target Series Specifications (Part 15)

|                           |               | GV-EFER3700 (Outdoor)                                                                    | GV-EFER3700-W (Outdoor)                           |
|---------------------------|---------------|------------------------------------------------------------------------------------------|---------------------------------------------------|
|                           |               |         |                                                   |
| <b>Camera</b>             |               |                                                                                          |                                                   |
| Image Sensor              |               | 1/2.8" progressive scan super low lux CMOS                                               |                                                   |
| Picture Elements          |               | 2048 (H) x 1536 (W)                                                                      |                                                   |
| Minimum Illumination      | Color         | 0.001 Lux                                                                                |                                                   |
|                           | B/W           | 0.001 Lux                                                                                |                                                   |
|                           | IR ON         | 0 Lux                                                                                    |                                                   |
| Shutter Speed             |               | Automatic, Manual (1/5 ~ 1/16000 sec)                                                    |                                                   |
| White Balance             |               | Automatic, Manual (2800K ~ 8500K)                                                        |                                                   |
| Gain Control              |               | Automatic                                                                                |                                                   |
| S/N Ratio                 |               | 54 dB                                                                                    |                                                   |
| WDR Pro (with WDR Sensor) |               | Yes                                                                                      |                                                   |
| Dynamic Range             |               | Up to 120 dB                                                                             |                                                   |
| <b>Operation</b>          |               |                                                                                          |                                                   |
| Video Compression         |               | H.265, H.264, MJPEG                                                                      |                                                   |
| Video Streaming           |               | Stream 1 from H.265 or H.264                                                             |                                                   |
|                           |               | Stream 2 from H.265, H.264 or MJPEG                                                      |                                                   |
|                           |               | Stream 3 from H.265, H.264 or MJPEG                                                      |                                                   |
| Frame Rate                |               | 50Hz: 25 fps at 2048 x 1536, 25 fps at 1440 x 1376                                       |                                                   |
|                           |               | 60Hz: 30 fps at 2048 x 1536, 30 fps at 1440 x 1376                                       |                                                   |
| Audio Compression         |               | G.711                                                                                    |                                                   |
| Audio Support             |               | Two-way Audio (external microphone and speaker required)                                 |                                                   |
| Sensor Input              |               | 1 input (Dry Contact)                                                                    |                                                   |
| Sensor Output             |               | 1 digital output (200mA 5V DC)                                                           |                                                   |
| <b>Optical Lens</b>       |               |                                                                                          |                                                   |
| Day/Night                 |               | Yes (with removable IR-cut filter)                                                       |                                                   |
| Focal Length              |               | 1.24 mm                                                                                  |                                                   |
| Maximum Aperture          |               | F/1.8                                                                                    |                                                   |
| Mount                     |               | M12                                                                                      |                                                   |
| Image Format              |               | 1/3"                                                                                     |                                                   |
| Horizontal FOV            |               | 185°                                                                                     |                                                   |
| Operation                 | Focus         | Fixed                                                                                    |                                                   |
|                           | Iris          | Fixed                                                                                    |                                                   |
|                           | Zoom          | Fixed                                                                                    |                                                   |
| IR LED Quantity           |               | 3 IR LEDs                                                                                |                                                   |
| Max. IR Distance          |               | 20 m (65 ft)                                                                             |                                                   |
| <b>Mechanical</b>         |               |                                                                                          |                                                   |
| Temperature Detector      |               | Yes                                                                                      |                                                   |
| Connectors                | Power         | 2-pin terminal block, PoE                                                                | 2-pin terminal block                              |
|                           | Ethernet      | Ethernet (10/100 Base-T), RJ-45                                                          |                                                   |
|                           | Audio         | 1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)                                |                                                   |
|                           | Digital I/O   | 3-pin terminal block, pitch 2.5 mm/0.1"                                                  |                                                   |
|                           | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported. |                                                   |
| LED Indicator             |               | 2 LEDs: Power / Status                                                                   | 4 LEDs: Power / Status / WiFi Power / WiFi Status |
| <b>General</b>            |               |                                                                                          |                                                   |
| Environment               | Start-Up      | -20°C ~ 50°C (-4°F ~ 122°F)                                                              |                                                   |
| Temperature               | Operation     | -30°C ~ 50°C (-22°F ~ 122°F)                                                             |                                                   |
| Humidity                  |               | 10% to 90% (no condensation)                                                             |                                                   |
| Power Source              |               | 12V DC / PoE (IEEE 802.3af)                                                              | 12V DC                                            |
| Max. Power Consumption    |               | 10.5 W                                                                                   | 9.5 W                                             |
| Regulatory                |               | CE, FCC, RCM, LVD, RoHS compliant                                                        |                                                   |
| Dimension                 |               | Ø 140.5 x 52.2 mm m (5.5" x 2.05")                                                       |                                                   |
| Weight                    |               | 670 g (1.47 lb)                                                                          |                                                   |
| Ingress Protection        |               | IP67                                                                                     |                                                   |
| Vandal Resistance         |               | IK8                                                                                      |                                                   |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Fisheye Camera Specifications (Part 1)

|                           |               | GV-FER5701 (Outdoor)                                                                  | GV-FER12203 (Outdoor)                                                | GV-FER5702 (Outdoor)                                                                |
|---------------------------|---------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           |               |      |                                                                      |  |
| Image Sensor              |               | 1/2.5" progressive scan CMOS                                                          | 1/1.7" progressive scan CMOS                                         | 1/2.8" progressive scan CMOS                                                        |
| Picture Elements          |               | 2592 (H) x 1944 (V)                                                                   | 4000 (H) x 3000 (V)                                                  | 2592 (H) x 1944 (V)                                                                 |
| Minimum Illumination      | Color         | 0.03 Lux                                                                              | 0.1 Lux                                                              | 0.01 Lux (F2.0, AGC ON)                                                             |
|                           | B/W           | 0.02 Lux                                                                              | 0.05 Lux                                                             | N/A                                                                                 |
|                           | IR ON         | 0 Lux                                                                                 | 0 Lux                                                                | 0 Lux                                                                               |
| Shutter Speed             |               | Automatic, Manual (1/30 ~ 1/16000 sec)                                                | Automatic, Manual (1/30 ~ 1/16000 sec)                               | Auto / Manual (1 ~ 1/100000s)                                                       |
| White Balance             |               | Auto, Manual (2800K ~ 8500K)                                                          | Auto, Manual (2800K ~ 8500K)                                         | Auto / Manual (2800K ~ 8500K)                                                       |
| Gain Control              |               | Automatic                                                                             | Automatic                                                            | Automatic                                                                           |
| S/N Ratio                 |               | 50 dB                                                                                 | 52 dB                                                                | 55 dB                                                                               |
| WDR Pro (with WDR Sensor) |               | Yes                                                                                   | N/A                                                                  | Yes                                                                                 |
| Dynamic Range             |               | Up to 120 dB                                                                          | Up to 72 dB                                                          | 120 dB                                                                              |
| Video Compression         |               | H.265, H.264, MJPEG                                                                   | H.264, MJPEG                                                         | H.265, H.264, MJPEG                                                                 |
| Video Streaming           |               | Triple streams from H.265, H.264 or MJPEG                                             | Dual streams from H.264 or MJPEG                                     | Triple streams from H.265, H.264 or MJPEG                                           |
| Frame Rate                |               | 30 fps at 2592 x 1944                                                                 | 15 fps at 4000 x 3000<br>25 fps at 2896 x 2768                       | 30 fps at 2592 x 1944 (50/60 Hz)                                                    |
| Audio Compression         |               | G.711                                                                                 |                                                                      |                                                                                     |
| Audio Support             |               | Two-way Audio (external speaker required)                                             |                                                                      | Two-way Audio (external speaker required)                                           |
| Sensor Input              |               | 1 Input (Dry Contact)                                                                 | 1 Input (Dry Contact)                                                | 1 Input (Dry Contact)                                                               |
| Alarm Output              |               | 1 Digital Output (200 mA 5V DC)                                                       | 1 Digital Output (200 mA 5V DC)                                      | 1 Digital Output (200mA 5V DC)                                                      |
| Day/Night                 |               | Yes (with removable IR-cut filter)                                                    | Yes (with removable IR-cut filter)                                   | Yes (with removable IR-cut filter)                                                  |
| Focal Length              |               | 1.05 mm                                                                               | 1.83 mm                                                              | 1.4 mm                                                                              |
| Maximum Aperture          |               | F/2.8                                                                                 | F/2.4                                                                | F/2                                                                                 |
| Mount                     |               | M12                                                                                   | M12                                                                  | M12                                                                                 |
| Image Format              |               | 1/2.5"                                                                                | 1/1.7"                                                               | 1/2.8"                                                                              |
| Horizontal FOV            |               | 180°                                                                                  | 180°                                                                 | 180°                                                                                |
| Operation                 | Focus         | Fixed                                                                                 | Fixed                                                                | Fixed                                                                               |
|                           | Iris          |                                                                                       |                                                                      |                                                                                     |
|                           | Zoom          |                                                                                       |                                                                      |                                                                                     |
| IR LED Quantity           |               | 6 IR LEDs                                                                             | 6 IR LEDs                                                            | 3 IR LEDs                                                                           |
| Max. IR Distance          |               | 30 m (100 ft)                                                                         | 30 m (100 ft)                                                        | 20 m (65 ft)                                                                        |
| Temperature Detector      |               | Yes                                                                                   | Yes                                                                  | N/A                                                                                 |
| Connectors                | Power         | 2-pin terminal block, PoE                                                             | 2-pin terminal block, PoE                                            | DC Jack                                                                             |
|                           | Ethernet      | Ethernet (10/100 Base-T), RJ-45 Connector                                             | Ethernet (10/100/1000 Base-T), RJ-45 Connector                       | RJ-45                                                                               |
|                           | Audio         | 1 In (built-in or external microphone)<br>1 Out (3.5 mm stereo jack)                  | 1 In (built-in or external microphone)<br>1 Out (3.5 mm stereo jack) | 1 In (built-in or external microphone with power supply)<br>1 Out (Audio Out Wire)  |
|                           | Digital I/O   | 3-pin terminal block, pitch 2.5 mm/0.1"                                               | 3-pin terminal block, pitch 2.5 mm/0.1"                              | I/O wires                                                                           |
|                           | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported. |                                                                      |                                                                                     |
|                           | USB           | GV-WiFi Adapter or USB hard drive                                                     | USB hard drive                                                       | N/A                                                                                 |
| Environment               | Start-Up      | -20°C ~ 50°C (-4°F ~ 122°F)                                                           | -40°C ~ 50°C (-40°F ~ 122°F)                                         | -30°C ~ 60°C (-22°F ~ 140°F)                                                        |
| Temperature               | Operation     | -30°C ~ 50°C (-22°F ~ 122°F)                                                          |                                                                      |                                                                                     |
| Humidity                  |               | 10% to 90% (no condensation)                                                          | 10% to 90% (no condensation)                                         | 0% ~ 95% (no condensation)                                                          |
| Power Source              |               | 12V DC / PoE+ (IEEE 802.3at)                                                          | 12V DC / 24V AC / PoE+ (IEEE 802.3at)                                | 12V DC / PoE (IEEE 802.3af)                                                         |
| Max. Power Consumption    |               | 15 W                                                                                  | 28 W                                                                 | 8.5 W                                                                               |
| Regulatory                |               | CE, FCC, LVD, RoHS compliant                                                          | CE, FCC, RCM, LVD, RoHS compliant                                    | CE, FCC, RoHS compliant                                                             |
| Dimensions                |               | Ø 160.59 x 59.06 mm (6.22" x 2.32")                                                   | Ø 160.59 x 59.06 mm (6.22" x 2.32")                                  | Ø 125x 44 mm (Ø 4.9" x 1.7")                                                        |
| Weight                    |               | 700 g (1.54 lb)                                                                       | 700 g (1.54 lb)                                                      | 360 g (0.79 lb)                                                                     |
| Ingress Protection        |               | IP67                                                                                  | IP67                                                                 | IP66                                                                                |
| Vandal Resistance         |               | IK10+ for metal casing                                                                | IK10+ for metal casing                                               | IK10                                                                                |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Fisheye Camera Specifications (Part 2)

|                           |               | GV-FER12700 (Outdoor)                                                                                            | GV-QFER12700 (Outdoor)                                                              |
|---------------------------|---------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           |               |                                 |  |
| Image Sensor              |               | 1/1.7" progressive scan CMOS                                                                                     | 1/1.7" progressive scan CMOS                                                        |
| Picture Elements          |               | 4000 (H) x 3000 (V)                                                                                              | 4000 (H) x 3000 (V)                                                                 |
| Minimum Illumination      | Color         | 0.1 Lux                                                                                                          | 0.1 Lux                                                                             |
|                           | B/W           | 0.05 Lux                                                                                                         | 0.01 Lux                                                                            |
|                           | IR ON         | 0 Lux                                                                                                            | 0 Lux                                                                               |
| Shutter Speed             |               | Automatic, Manual (1/5 ~ 1/16000 sec)                                                                            | Automatic, Manual (1/5 ~ 1/10000 sec)                                               |
| White Balance             |               | Auto, Manual (2800K ~ 8500K)                                                                                     | Automatic, Manual                                                                   |
| Gain Control              |               | Automatic                                                                                                        | Automatic                                                                           |
| S/N Ratio                 |               | 52 dB                                                                                                            | 52 dB                                                                               |
| WDR Pro (with WDR Sensor) |               | WDR                                                                                                              | WDR                                                                                 |
| Dynamic Range             |               | Up to 72 dB                                                                                                      | Up to 77 dB                                                                         |
| Video Compression         |               | H.265, H.264, MJPEG                                                                                              | H.265, H.264, MJPEG                                                                 |
| Video Streaming           |               | Triple streams from H.265, H.264 or MJPEG                                                                        | Quad streams from H.265, H.264 or MJPEG                                             |
| Frame Rate                |               | 25/30 fps at 4000 x 3000<br>and 3160 x 3000                                                                      | 20 fps at 4000 x 3000 (50/60 Hz)                                                    |
| Audio Compression         |               | G.711                                                                                                            | G.711                                                                               |
| Audio Support             |               | Two-way Audio (external microphone and speaker required)                                                         |                                                                                     |
| Sensor Input              |               | 1 Input (Dry Contact)                                                                                            | 1 Input                                                                             |
| Alarm Output              |               | 1 Digital Output (200 mA 5V DC)                                                                                  | 1 Output                                                                            |
| Day/Night                 |               | Yes (with removable IR-cut filter)                                                                               | Yes (with removable IR-cut filter)                                                  |
| Focal Length              |               | 1.2 mm                                                                                                           | 1.65 mm                                                                             |
| Maximum Aperture          |               | F/2.2                                                                                                            | F/2.8                                                                               |
| Mount                     |               | M12                                                                                                              | M12                                                                                 |
| Image Format              |               | 1/1.7"                                                                                                           | 1/1.7"                                                                              |
| Horizontal FOV            |               | 180°                                                                                                             | 180°                                                                                |
| Operation                 | Focus         | Fixed                                                                                                            | Fixed                                                                               |
|                           | Iris          |                                                                                                                  |                                                                                     |
|                           | Zoom          |                                                                                                                  |                                                                                     |
| IR LED Quantity           |               | 6 IR LEDs                                                                                                        | 4 IR LEDs                                                                           |
| Max. IR Distance          |               | 30 m (100 ft)                                                                                                    | 10 m (35 ft)                                                                        |
| Temperature Detector      |               | Yes                                                                                                              | Yes                                                                                 |
| Connectors                | Power         | 2-pin terminal block, PoE                                                                                        | DC Jack                                                                             |
|                           | Ethernet      | Ethernet (10/100/1000 Base-T), RJ-45 Connector                                                                   | Ethernet (10/100/1000 Base-T), RJ-45 Connector                                      |
|                           | Audio         | 1 In (built-in or external microphone)<br>1 Out (3.5 mm stereo jack)                                             | 1 In (external microphone with power supply)<br>1 Out (3.5 mm stereo jack)          |
|                           | Digital I/O   | 3-pin terminal block, pitch 2.5 mm/0.1"                                                                          | 4-pin terminal block                                                                |
|                           | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported<br>Support recording to NAS |                                                                                     |
|                           | USB           | GV-WiFi Adapter or USB hard drive                                                                                | N/A                                                                                 |
| Environment               |               |                                                                                                                  |                                                                                     |
| Temperature               | Start-Up      | -20°C ~ 50°C (-4°F ~ 122°F)                                                                                      | -20°C ~ 70°C (-4°F ~ 158°F)                                                         |
|                           | Operation     | -30°C ~ 50°C (-22°F ~ 122°F)                                                                                     | -30°C ~ 55°C (-22°F ~ 131°F)                                                        |
| Humidity                  |               | 10% to 90% (no condensation)                                                                                     | 10% to 90% (no condensation)                                                        |
| Power Source              |               | 12V DC / PoE+ (IEEE 802.3af)                                                                                     | 12V DC / PoE (IEEE 802.3af)                                                         |
| Max. Power Consumption    |               | 17 W                                                                                                             | 12.95 W                                                                             |
| Regulatory                |               | CE, FCC, LVD, RoHS compliant                                                                                     | CE, FCC, RoHS compliant                                                             |
| Dimensions                |               | Ø 160.59 x 59.40 mm (6.22" x 2.33")                                                                              | Ø 130*57.8 mm (Ø 5.12" x 2.28")                                                     |
| Weight                    |               | 700 g (1.54 lb)                                                                                                  | 565 g (1.25 lb)                                                                     |
| Ingress Protection        |               | IP67                                                                                                             | IP66                                                                                |
| Vandal Resistance         |               | IK10+ for metal casing                                                                                           | IK10                                                                                |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## IP Speed Dome Camera Specifications (Part 1)

| Camera                    |                     | GV-SD2301 V2 (Outdoor)                                                             | GV-SD2411 V2(Outdoor)                                                             | GV-SD2723-IR                                                                        | GV-SD2733-IR                                                                        |
|---------------------------|---------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           |                     |   |  |  |  |
| Image Sensor              |                     | 1/3 Progressive scan low lux CMOS                                                  |                                                                                   | 1/3 progressive scan low lux CMOS sensor                                            |                                                                                     |
| Picture Elements          |                     | 1920 (H) x 1080 (V)                                                                |                                                                                   | 1920 (H) x (1080 (V)                                                                |                                                                                     |
| Minimum Illumination      | Color               | 0.5 lux                                                                            |                                                                                   | 0.5 lux at F/1.6                                                                    |                                                                                     |
|                           | B/W                 | 0.1 lux                                                                            |                                                                                   | 0.1 lux at F/1.6                                                                    |                                                                                     |
|                           | IR ON               | N/A                                                                                |                                                                                   | 0 Lux                                                                               |                                                                                     |
| Shutter Speed             |                     | 1/6 ~ 1/30000 sec                                                                  |                                                                                   |                                                                                     |                                                                                     |
| White Balance             |                     | Auto / Manual                                                                      |                                                                                   | Auto / Manual (2800 ~ 8500K)                                                        |                                                                                     |
| Gain Control              |                     | Auto / Manual                                                                      |                                                                                   | Automatic                                                                           |                                                                                     |
| S/N Ratio                 |                     | 50 dB                                                                              |                                                                                   | 50 dB (AGC Off)                                                                     |                                                                                     |
| BLC                       |                     | N/A                                                                                |                                                                                   |                                                                                     |                                                                                     |
| Optical Zoom              |                     | 20x                                                                                | 30x                                                                               | 20x                                                                                 | 30x                                                                                 |
| Digital Zoom              |                     | 32x                                                                                |                                                                                   |                                                                                     |                                                                                     |
| WDR Pro (with WDR sensor) |                     | Yes                                                                                |                                                                                   |                                                                                     |                                                                                     |
| Dynamic Range             |                     | Up to 100 dB                                                                       |                                                                                   | Up to 120 dB                                                                        |                                                                                     |
| Operation                 |                     |                                                                                    |                                                                                   |                                                                                     |                                                                                     |
| Video Compression         |                     | H.265, H.264, MJPEG                                                                |                                                                                   |                                                                                     |                                                                                     |
| Video Streaming           |                     | Dual Streams                                                                       |                                                                                   | Stream 1 from H.265 or H.264<br>Stream 2 from H.265, H264 or MJPEG                  |                                                                                     |
| Frame Rate                |                     | 30/50 fps (60/50 Hz) at 1920 x 1080                                                |                                                                                   | 50 Hz: 50 fps at 1920 x 1080<br>60 Hz: 30 fps at 1920 x 1080                        |                                                                                     |
| Audio Compression         |                     | G.711                                                                              |                                                                                   |                                                                                     |                                                                                     |
| Audio Support             |                     | Two-way Audio (external microphone and speaker required)                           |                                                                                   |                                                                                     |                                                                                     |
| Sensor Input              |                     | 4 Input (Dry Contact)                                                              |                                                                                   |                                                                                     |                                                                                     |
| Alarm Output              |                     | 1 Digital Output (4A 30V DC / 250V AC)                                             |                                                                                   |                                                                                     |                                                                                     |
| Pan Travel                |                     | 360° endless                                                                       |                                                                                   |                                                                                     |                                                                                     |
| Tilt Travel               |                     | -15° ~ 195°                                                                        |                                                                                   | -20° ~ 200°                                                                         |                                                                                     |
| Proportional Pan & Tilt   |                     | Auto (Pan and tilt speed proportional to zoom ratio)                               |                                                                                   | N/A                                                                                 |                                                                                     |
| Movement Speed            |                     | 0.1° ~ 460°/s                                                                      |                                                                                   | 0.1° ~ 400°/s                                                                       |                                                                                     |
| Presets                   |                     | 255                                                                                |                                                                                   |                                                                                     |                                                                                     |
| Preset Accuracy           |                     | 0.2°                                                                               |                                                                                   |                                                                                     |                                                                                     |
| Sequence                  | Max Number          | 8                                                                                  |                                                                                   |                                                                                     |                                                                                     |
|                           | Max Presets Allowed | 16                                                                                 |                                                                                   |                                                                                     |                                                                                     |
| Auto Pan                  |                     | 8                                                                                  |                                                                                   |                                                                                     |                                                                                     |
| Cruise                    |                     | 4                                                                                  |                                                                                   |                                                                                     |                                                                                     |
| Tour                      |                     | 8                                                                                  |                                                                                   |                                                                                     |                                                                                     |
| Privacy Mask              |                     | 8                                                                                  |                                                                                   |                                                                                     |                                                                                     |
| Wide Dynamic Range        |                     | On / Off                                                                           |                                                                                   |                                                                                     |                                                                                     |
| Optical Lens              |                     |                                                                                    |                                                                                   |                                                                                     |                                                                                     |
| Day/Night                 |                     | Yes (with removable IR Cut Filter)                                                 |                                                                                   |                                                                                     |                                                                                     |
| Focal Length              |                     | 4.7 ~ 94 mm                                                                        | 4.3 ~ 129 mm                                                                      | 4.7 ~ 94.0 mm                                                                       | 4.3 ~ 129 mm                                                                        |
| Maximum Aperture          |                     | F / 1.6                                                                            |                                                                                   |                                                                                     |                                                                                     |
| Operation                 | Focus               | Auto/Manual                                                                        |                                                                                   |                                                                                     |                                                                                     |
|                           | Zoom                | 20x                                                                                | 30x                                                                               | 20x                                                                                 | 30x                                                                                 |
|                           | Iris                | Auto/Manual                                                                        |                                                                                   |                                                                                     |                                                                                     |
| Mechanical                |                     |                                                                                    |                                                                                   |                                                                                     |                                                                                     |
| Temperature Detector      |                     | Yes                                                                                |                                                                                   |                                                                                     |                                                                                     |
| Connectors                | Power               | DC Jack (DC 24V, 3.75A), PoE++                                                     |                                                                                   |                                                                                     |                                                                                     |
|                           | Ethernet            | Ethernet (10/100 Base-T), RJ-45 Connector                                          |                                                                                   |                                                                                     |                                                                                     |
|                           | Audio               | 1 In, 1 Out (RCA female for microphone and speaker)                                |                                                                                   |                                                                                     |                                                                                     |
|                           | Digital I/O         | I/O wires                                                                          |                                                                                   |                                                                                     |                                                                                     |
|                           | Local Storage       | SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>*UHS-II card type is not supported. |                                                                                   |                                                                                     |                                                                                     |
| General                   |                     |                                                                                    |                                                                                   |                                                                                     |                                                                                     |
| Environment Temperature   |                     | -40 °C ~ 50 °C (-40 °F ~ 122 °F)                                                   |                                                                                   | -40°C ~ 70°C (-40°F ~ 158°F)                                                        |                                                                                     |
| Fan                       |                     | > 55 °C (131 °F), < 15 °C (59 °F)                                                  |                                                                                   | > 55 °C (131 °F)                                                                    |                                                                                     |
| Humidity                  |                     | 10% ~ 90% (no condensation)                                                        |                                                                                   |                                                                                     |                                                                                     |
| Power Source              |                     | 24V AC / 24V DC / High PoE (PoE++, 90 W)                                           |                                                                                   |                                                                                     |                                                                                     |
| Max. Power Consumption    |                     | 53.5 W                                                                             |                                                                                   | 85 W                                                                                |                                                                                     |
| Regulatory                |                     | CE, FCC, RCM, RoHS Compliant                                                       |                                                                                   |                                                                                     |                                                                                     |
| Dimensions                | Camera Body         | Ø 211.63 x 232 mm (8.332" x 9.13")                                                 |                                                                                   | Ø 201.7 x 293.2 mm (7.94" x 11.54")                                                 |                                                                                     |
| Weight                    |                     | 3.1 kg (6.82 lb)                                                                   |                                                                                   | 5.6 kg (12.3 lb)                                                                    |                                                                                     |
| Ingress Protection        |                     | IP67                                                                               |                                                                                   | IP66                                                                                |                                                                                     |
| Vandal Resistance         |                     | IK10 for metal casing                                                              |                                                                                   |                                                                                     |                                                                                     |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## IP Speed Dome Camera Specifications (Part 2)

| Camera                    |                     | GV-SD2722-IR (Outdoor)                                                                 | GV-SD3732-IR (Outdoor)                                                            | GV-SD4825-IR                                                                                     | GV-SD4834-IR                                                                        |
|---------------------------|---------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           |                     |       |  |               |  |
| Image Sensor              |                     | 1/1.8 Progressive scan super low lux CMOS sensor                                       | 1/2.8 Progressive scan low lux CMOS sensor                                        | 1/2.8 Progressive scan CMOS sensor                                                               | 1/2.8 Progressive scan CMOS sensor                                                  |
| Picture Elements          |                     | 1920 (H) x 1080 (V)                                                                    | 2048 (H) x 1536 (V)                                                               | 2688 (H) x 1520 (V)                                                                              |                                                                                     |
| Minimum Illumination      | Color               | 0.0005 Lux (F1.5, AGC ON)                                                              |                                                                                   | 0.003 Lux (F1.5, AGC ON)                                                                         |                                                                                     |
|                           | B/W                 | N/A                                                                                    |                                                                                   | N/A                                                                                              |                                                                                     |
|                           | IR ON               | 0 Lux                                                                                  |                                                                                   | 0 Lux                                                                                            |                                                                                     |
| Shutter Speed             |                     | Auto / Manual (1/6 ~ 1/100000 sec)                                                     |                                                                                   | Auto / Manual (1 ~ 1/100000 sec)                                                                 |                                                                                     |
| White Balance             |                     | Auto / Manual                                                                          |                                                                                   |                                                                                                  |                                                                                     |
| AGC Control               |                     | Auto / Manual                                                                          |                                                                                   | Auto / Manual                                                                                    |                                                                                     |
| S/N Ratio                 |                     | 52 dB                                                                                  | 55 dB                                                                             | 56 dB                                                                                            |                                                                                     |
| Optical Zoom              |                     | 22x                                                                                    |                                                                                   | 25x                                                                                              | 33x                                                                                 |
| Digital Zoom              |                     | Unlimited                                                                              |                                                                                   |                                                                                                  |                                                                                     |
| WDR Pro (with WDR sensor) |                     | Yes                                                                                    |                                                                                   |                                                                                                  |                                                                                     |
| Dynamic Range             |                     | Up to 120 dB                                                                           |                                                                                   |                                                                                                  |                                                                                     |
| Video Compression         |                     | H.265, H.264 or MJPEG                                                                  |                                                                                   |                                                                                                  |                                                                                     |
| Video Streaming           |                     | Triple streams from H.265, H.264 or MJPEG                                              |                                                                                   |                                                                                                  |                                                                                     |
| Frame Rate                |                     | 60 fps (60 / 50 Hz) at 1920 x 1080                                                     | 30 fps (60/ 50 Hz) at 2048 x 1536<br>60 fps (60 / 50 Hz) at 1920 x 1080           | 30 fps at 2688 x 1520<br>30 fps at 2560 x 1440                                                   |                                                                                     |
| Audio Compression         |                     | G.711                                                                                  |                                                                                   |                                                                                                  |                                                                                     |
| Audio Support             |                     | Two-way Audio (external microphone and speaker required)                               |                                                                                   |                                                                                                  |                                                                                     |
| Sensor Input              |                     | 2 Inputs, dry contact, NO / NC                                                         |                                                                                   |                                                                                                  |                                                                                     |
| Alarm Output              |                     | 1 Relay Output (1A 30V DC / 0.3A 125V AC)                                              |                                                                                   | 1 Relay Output (0.5A 125V AC / 1A 30V DC)                                                        |                                                                                     |
| Pan Travel                |                     | 360° endless                                                                           |                                                                                   |                                                                                                  |                                                                                     |
| Tilt Travel               |                     | -15° ~ 90°                                                                             |                                                                                   |                                                                                                  |                                                                                     |
| Movement Speed            |                     | 0.1° ~ 240°/s                                                                          |                                                                                   | 0.1° ~ 200°/s                                                                                    | 0.1° ~ 200°/s                                                                       |
| Presets                   |                     | 255                                                                                    |                                                                                   |                                                                                                  |                                                                                     |
| Preset Accuracy           |                     | 0.1°                                                                                   |                                                                                   | 0.2°                                                                                             | 0.1°                                                                                |
| Auto Pan                  |                     | Yes                                                                                    |                                                                                   | Yes                                                                                              | Yes                                                                                 |
| Sequence                  | Max Number          | N/A                                                                                    |                                                                                   |                                                                                                  |                                                                                     |
|                           | Max Presets Allowed |                                                                                        |                                                                                   |                                                                                                  |                                                                                     |
| Cruise                    |                     |                                                                                        |                                                                                   |                                                                                                  |                                                                                     |
| Tour                      |                     |                                                                                        |                                                                                   |                                                                                                  |                                                                                     |
| Patrol                    | Max Number          | 16                                                                                     |                                                                                   |                                                                                                  |                                                                                     |
|                           | Max Actions Allowed | 32                                                                                     |                                                                                   |                                                                                                  |                                                                                     |
| Privacy Mask              |                     | 24                                                                                     |                                                                                   |                                                                                                  |                                                                                     |
| Day/Night                 |                     | Yes (with removable IR Cut Filter)                                                     |                                                                                   |                                                                                                  |                                                                                     |
| Focal Length              |                     | 6.5 ~ 143 mm                                                                           | 4.5 ~ 148.5 mm                                                                    | 4.8 ~ 120 mm                                                                                     | 4.5 ~ 148.5 mm                                                                      |
| Maximum Aperture          |                     | F/ 1.5                                                                                 | F/ 1.6                                                                            | F/ 1.5                                                                                           |                                                                                     |
| Operation                 | Focus               | Auto / Manual                                                                          |                                                                                   |                                                                                                  |                                                                                     |
|                           | Zoom                | 22x                                                                                    | 33x                                                                               | 25x                                                                                              | 33x                                                                                 |
|                           | Iris                | Auto / Manual                                                                          |                                                                                   |                                                                                                  |                                                                                     |
| IR LED Quantity           |                     | 10 IR LEDs                                                                             |                                                                                   | 4 IR LEDs                                                                                        | 6 IR LEDs                                                                           |
| Max. IR Distance          |                     | 200 m (655ft)                                                                          | 150 m (500 ft)                                                                    | 100 m (330 ft)                                                                                   | 150 m (500 ft)                                                                      |
| Temperature Detector      |                     | N/A                                                                                    |                                                                                   |                                                                                                  |                                                                                     |
| Connectors                | Power               | 3-pin terminal block (DC 24V, AC 24V, 2.5A)                                            |                                                                                   | DC Jack (DC 12V, 2A), PoE+ (IEEE 802.3at)                                                        | 3-pin terminal block (DC 24V, 2.5A / AC 24V, 2.2A), PoE+ (IEEE 802.3at)             |
|                           | Ethernet            | 10/100 Base-T, RJ-45 connector                                                         |                                                                                   | 10M/100 Base-TX, RJ-45 connector                                                                 |                                                                                     |
|                           | Audio               | 1 In (Audio in wire only for microphone with power supply), 1 Out (Audio out wire)     |                                                                                   |                                                                                                  |                                                                                     |
|                           | Digital I/O         | I/O Wires                                                                              |                                                                                   |                                                                                                  |                                                                                     |
|                           | Local Storage       | Micro SD card slot (SDHC/SDXC, Class 10)<br>*UHS-I/UHS-II card types are not supported |                                                                                   | Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10)<br>*UHS-II card types are not supported. |                                                                                     |
| TV-Out                    |                     | BNC connector                                                                          |                                                                                   |                                                                                                  |                                                                                     |
| Environment Temperature   |                     | -40°C ~ 70°C (-40°F ~ 158°F)                                                           |                                                                                   | -40°C~70°C (-40°F ~ 158°F)                                                                       | -40°C~65°C (-40°F ~ 149°F)                                                          |
| Humidity                  |                     | 20% ~ 90% (no condensation)                                                            |                                                                                   |                                                                                                  |                                                                                     |
| Power Source              |                     | 24V AC / 24V DC                                                                        |                                                                                   | 12V DC / PoE+ (IEEE 802.3at)                                                                     | 24V AC / 24V DC / PoE+ (IEEE 802.3at)                                               |
| Max. Power Consumption    |                     | 52.5 W                                                                                 |                                                                                   | 21 W                                                                                             | 25 W                                                                                |
| Regulatory                |                     | CE, FCC, RoHS compliant                                                                |                                                                                   |                                                                                                  |                                                                                     |
| Dimensions                |                     | Ø 227 x 359.4 mm (8.94" x 14.15")                                                      |                                                                                   | Ø166 x 295mm (6.5" x 11.6")                                                                      | Ø227 x 384.8mm (8.9" x 15.1")                                                       |
| Weight                    |                     | 5.4 kg (11.9 lb)                                                                       |                                                                                   | 3.05 kg (6.72 lb)                                                                                | 5.28 kg (11.64 lb)                                                                  |
| Ingress Protection        |                     | IP66                                                                                   |                                                                                   | IP67                                                                                             | IP66                                                                                |
| Vandal Resistance         |                     | IK10 for metal casing                                                                  |                                                                                   |                                                                                                  |                                                                                     |

### Note:

- The TV-Out function only works in 640x480 resolution. For TV-Out to work properly, you must set the resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## IP Speed Dome Camera Specifications (Part 3)

| Camera                    |                     | GV-QSD5730-Indoor                                                                  | GV-QSD5731-IR (Outdoor)                                                           | GV-QSD5730-Outdoor                                                                  |
|---------------------------|---------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           |                     |   |  |  |
| Image Sensor              |                     | 1/2.8 Progressive scan low lux CMOS sensor                                         |                                                                                   |                                                                                     |
| Picture Elements          |                     | 2592 (H) x 1944 (V)                                                                |                                                                                   |                                                                                     |
| Minimum Illumination      | Color               | 0.02 Lux                                                                           |                                                                                   |                                                                                     |
|                           | B/W                 | 0.002 Lux                                                                          |                                                                                   |                                                                                     |
|                           | IR ON               | N/A                                                                                | 0 Lux                                                                             | N/A                                                                                 |
| Shutter Speed             |                     | Auto / Manual (1 ~ 1/10000 sec)                                                    |                                                                                   |                                                                                     |
| White Balance             |                     | Auto / Manual                                                                      |                                                                                   |                                                                                     |
| AGC Control               |                     | N/A                                                                                | N/A                                                                               | N/A                                                                                 |
| S/N Ratio                 |                     | N/A                                                                                | N/A                                                                               | N/A                                                                                 |
| Optical Zoom              |                     | 33x                                                                                |                                                                                   |                                                                                     |
| Digital Zoom              |                     | 10x                                                                                |                                                                                   |                                                                                     |
| WDR Pro (with WDR sensor) |                     | Yes                                                                                |                                                                                   |                                                                                     |
| Dynamic Range             |                     | Up to 120 dB                                                                       |                                                                                   |                                                                                     |
| Video Compression         |                     | H.265, H.264 or MJPEG                                                              |                                                                                   |                                                                                     |
| Video Streaming           |                     | Quad streams from H.265, H.264 or MJPEG                                            |                                                                                   |                                                                                     |
| Frame Rate                |                     | 30 fps at 2592 x 1944 (60/50 Hz)                                                   |                                                                                   |                                                                                     |
| Audio Compression         |                     | G.711                                                                              |                                                                                   |                                                                                     |
| Audio Support             |                     | Two-way Audio (external microphone and speaker required)                           |                                                                                   |                                                                                     |
| Sensor Input              |                     | 4 Inputs, dry contact, NO / NC                                                     |                                                                                   |                                                                                     |
| Alarm Output              |                     | 2 Relay Outputs (120mA 400V DC / 120mA 250V AC)                                    |                                                                                   |                                                                                     |
| Pan Travel                |                     | 360° endless                                                                       |                                                                                   |                                                                                     |
| Tilt Travel               |                     | -10° ~ 100°                                                                        | -20° ~ 100°                                                                       | -10° ~ 100°                                                                         |
| Movement Speed            |                     | 0.1° ~ 400°/s                                                                      | 0.1° ~ 280°/s                                                                     | 0.1° ~ 400°/s                                                                       |
| Presets                   |                     | 256                                                                                |                                                                                   |                                                                                     |
| Preset Accuracy           |                     | 0.1°                                                                               |                                                                                   |                                                                                     |
| Auto Pan                  |                     | 4                                                                                  |                                                                                   |                                                                                     |
| Sequence                  | Max Number          | 8                                                                                  |                                                                                   |                                                                                     |
|                           | Max Presets Allowed | 64                                                                                 |                                                                                   |                                                                                     |
| Cruise                    |                     | 8                                                                                  |                                                                                   |                                                                                     |
| Tour                      |                     | 8                                                                                  |                                                                                   |                                                                                     |
| Patrol                    | Max Number          | N/A                                                                                | N/A                                                                               | N/A                                                                                 |
|                           | Max Actions Allowed | N/A                                                                                | N/A                                                                               | N/A                                                                                 |
| Privacy Mask              |                     | 20                                                                                 |                                                                                   |                                                                                     |
| Day/Night                 |                     | Yes (with removable IR Cut Filter)                                                 |                                                                                   |                                                                                     |
| Focal Length              |                     | 4.6 ~ 152 mm                                                                       |                                                                                   |                                                                                     |
| Maximum Aperture          |                     | F/ 1.6                                                                             |                                                                                   |                                                                                     |
| Operation                 | Focus               | Auto / Manual                                                                      |                                                                                   |                                                                                     |
|                           | Zoom                | 33x                                                                                |                                                                                   |                                                                                     |
|                           | Iris                | Auto / Manual                                                                      |                                                                                   |                                                                                     |
| IR LED Quantity           |                     | N/A                                                                                | 16                                                                                | N/A                                                                                 |
| Max. IR Distance          |                     | N/A                                                                                | 150 m (500 ft)                                                                    | N/A                                                                                 |
| Temperature Detector      |                     | N/A                                                                                |                                                                                   |                                                                                     |
| Connectors                | Power               | Terminal Block (AC 24V), PoE+ (802.3at)                                            | Terminal Block (AC 24V), High PoE (PoE++, 60W)                                    | Terminal Block (AC 24V), PoE+ (802.3at)                                             |
|                           | Ethernet            | 10/100 Base-T, RJ-45 connector                                                     |                                                                                   |                                                                                     |
|                           | Audio               | 1 in (Audio In wire only for microphone with power supply); 1 out (Audio Out wire) |                                                                                   |                                                                                     |
|                           | Digital I/O         | I/O Terminal Block                                                                 |                                                                                   |                                                                                     |
|                           | Local Storage       | SD card slot (SDHC / SDXC, Class 10)                                               |                                                                                   |                                                                                     |
|                           | TV-Out              | BNC connector                                                                      |                                                                                   |                                                                                     |
| Environment Temperature   |                     | -25°C ~ 50°C (-40°F ~ 122°F)                                                       | -40°C ~ 50°C (-40°F ~ 122°F)                                                      | -40°C ~ 50°C (-40°F ~ 122°F)                                                        |
| Humidity                  |                     | 10% ~ 90% (non-condensing)                                                         |                                                                                   |                                                                                     |
| Power Source              |                     | 30V DC / 24V AC / PoE+ (802.3at)                                                   | 30V DC / 24V AC / PoE++ (60W)                                                     | 30V DC / 24V AC / PoE+ (802.3at)                                                    |
| Max. Power Consumption    |                     | DC 30V, 11.37W Max.<br>AC 24V, 13.55W Max.                                         | DC 30V, 43.87W Max.<br>AC 24V, 44W Max.                                           | DC 30V, 23.01W Max.<br>AC 24V, 24.20W Max.                                          |
| Regulatory                |                     | CE, FCC, RoHS compliant                                                            |                                                                                   |                                                                                     |
| Dimensions                |                     | Ø 212 x 263.6 mm (8.3" x 10.4")                                                    | Ø 207 x 300 mm (8.15" x 11.81")                                                   | Ø 209.5 x 279.3 mm (8.2" x 11")                                                     |
| Weight                    |                     | 2.6 kg (5.73 lb)                                                                   | 3.8 kg (8.38 lb)                                                                  | 2.9 kg (6.39 lb)                                                                    |
| Ingress Protection        |                     | N/A                                                                                | IP66                                                                              |                                                                                     |
| Vandal Resistance         |                     | N/A                                                                                | IK10 for housing                                                                  |                                                                                     |

### Note:

1. The TV-Out function only works in 640x480 resolution. For TV-Out to work properly, you must set the resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
2. Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Pinhole Camera Specifications

|                                |                            | GV-UNP2500                                                                                                    | GV-UNFE2503 (Outdoor)                                                                                |
|--------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                |                            |                              |                   |
| <b>Camera</b>                  |                            |                                                                                                               |                                                                                                      |
| <b>Image Sensor</b>            |                            | 1/2.8" progressive scan super low lux CMOS                                                                    | 1/2.8" progressive scan super low lux CMOS                                                           |
| <b>Picture Elements</b>        |                            | 1920 (H) x 1080 (V)                                                                                           | 1920 (H) x 1080 (V)                                                                                  |
| <b>Minimum Illumination</b>    | <b>Color B/W</b>           | 0.02 Lux                                                                                                      | 0.02 Lux                                                                                             |
| <b>Shutter Speed</b>           |                            | Automatic, Manual (1/5 ~ 1/8000 sec)                                                                          | Automatic, Manual (1/5 ~ 1/8000 sec)                                                                 |
| <b>White Balance</b>           |                            | Automatic, Manual (2800K ~ 8500K)                                                                             | Auto, Manual (2800K ~ 8500K)                                                                         |
| <b>Gain Control</b>            |                            | Automatic                                                                                                     | Automatic                                                                                            |
| <b>S/N Ratio</b>               |                            | 52 dB                                                                                                         | 52 dB                                                                                                |
| <b>WDR</b>                     |                            | Yes                                                                                                           | N/A                                                                                                  |
| <b>Dynamic Range</b>           |                            | Up to 72 dB                                                                                                   | Up to 72 dB                                                                                          |
| <b>Operation</b>               |                            |                                                                                                               |                                                                                                      |
| <b>Video Compression</b>       |                            | H.264, MJPEG                                                                                                  | H.264, MJPEG                                                                                         |
| <b>Video Streaming</b>         |                            | Dual streams from H.264 or MJPEG                                                                              | Dual streams from H.264 or MJPEG                                                                     |
| <b>Frame Rate</b>              |                            | 30 fps at 1920 x 1080                                                                                         | 30 fps at 1920 x 1080                                                                                |
| <b>Audio Compression</b>       |                            | AAC 32K<br>* This audio codec is for custom procurement; consult our sales representatives before purchasing. |                                                                                                      |
| <b>Audio Support</b>           |                            | One-way Audio                                                                                                 | One-way Audio                                                                                        |
| <b>Sensor Input</b>            |                            | N/A                                                                                                           | N/A                                                                                                  |
| <b>Alarm Output</b>            |                            | N/A                                                                                                           | N/A                                                                                                  |
| <b>Optical Lens</b>            |                            |                                                                                                               |                                                                                                      |
| <b>Day/Night</b>               |                            | Yes (Electronic)                                                                                              | Yes (with removable IR-cut filter)                                                                   |
| <b>Iris</b>                    |                            | Fixed                                                                                                         | Fixed                                                                                                |
| <b>Focal Length</b>            |                            | 3.7 mm                                                                                                        | 1.19 mm                                                                                              |
| <b>Maximum Aperture</b>        |                            | F/2.8                                                                                                         | F/2.0                                                                                                |
| <b>Mount</b>                   |                            | M12                                                                                                           | M12                                                                                                  |
| <b>Image Format</b>            |                            | 1/2.7"                                                                                                        | 1/2.3"                                                                                               |
| <b>Horizontal FOV</b>          |                            | 84°                                                                                                           | 180°                                                                                                 |
| <b>Operation</b>               | <b>Focus</b>               | Fixed                                                                                                         | Fixed                                                                                                |
|                                | <b>Zoom</b>                | Fixed                                                                                                         | Fixed                                                                                                |
|                                | <b>Iris</b>                | Fixed                                                                                                         | Fixed                                                                                                |
| <b>Mechanical</b>              |                            |                                                                                                               |                                                                                                      |
| <b>Temperature Detector</b>    |                            | Yes                                                                                                           | Yes                                                                                                  |
| <b>Connectors</b>              | <b>Power</b>               | PoE (IEEE 802.3af)                                                                                            | PoE (IEEE 802.3af)                                                                                   |
|                                | <b>Ethernet</b>            | RJ-45 connector                                                                                               | RJ-45 connector                                                                                      |
|                                | <b>Audio</b>               | 1 In (built-in microphone)                                                                                    | 1 In (built-in microphone)                                                                           |
|                                | <b>Local Storage</b>       | Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) * SDXC/UHS-I card type is not supported.          | Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) * SDXC/UHS-I card type is not supported. |
|                                | <b>Camera Unit Connect</b> | RJ-12                                                                                                         | RJ-12                                                                                                |
| <b>LED Indicator</b>           |                            | 4 LEDs: Link, ACT, Camera Status, RJ-12 Status                                                                | 4 LEDs: Link, ACT, Camera Status, RJ-12 Status                                                       |
| <b>General</b>                 |                            |                                                                                                               |                                                                                                      |
| <b>Environment Temperature</b> |                            | -5 °C ~ 50 °C (23 °F ~ 122 °F)                                                                                | -5 °C ~ 50 °C (23 °F ~ 122 °F)                                                                       |
| <b>Humidity</b>                |                            | 10% to 90% (no condensation)                                                                                  | 10% to 90% (no condensation)                                                                         |
| <b>Power Source</b>            |                            | PoE (IEEE 802.3af)                                                                                            | PoE (IEEE 802.3af)                                                                                   |
| <b>Max. Power Consumption</b>  |                            | 4.8 W                                                                                                         | 7.7 W                                                                                                |
| <b>Regulatory</b>              |                            | CE, FCC, RCM, RoHS compliant                                                                                  | CE, FCC, RCM, RoHS compliant                                                                         |
| <b>Dimensions</b>              | <b>Main Base</b>           | 78.5 x 47.36 x 32.5 mm (3.09" x 1.86" x 1.28")                                                                | 78.5 x 47.36 x 32.5 mm                                                                               |
|                                | <b>Pinhole Unit</b>        | Ø 59.93 x 50.14 mm (2.36" x 1.97")                                                                            | Ø 80.35 x 115.12 mm                                                                                  |
| <b>Weight (with rack)</b>      |                            | 210 g (0.46 lb)                                                                                               | 480 g (1.06 lb)                                                                                      |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Panoramic PTZ IP Camera

|                         |                                                      | GV-PPTZ7300                                                                                                                                         | GV-PPTZ14021                                                                                                                                     | GV-PPTZ14031                   |
|-------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                         |                                                      |                                                                    |                                                                                                                                                  |                                |
| Camera                  |                                                      |                                                                                                                                                     |                                                                                                                                                  |                                |
| Image Sensor            |                                                      | FE: 1/2.5" progressive scan CMOS<br>SD: 1/2.86" progressive scan CMOS                                                                               | FE: 1/1.7" progressive scan CMOS<br>SD: 1/3" progressive scan CMOS                                                                               |                                |
| Picture Elements        |                                                      | FE: 2560 (H) x 1920 (V); SD: 1920 (H) x 1080 (V)                                                                                                    | FE: 4000 (H) x 3000 (V); SD: 1920 (H) x 1080 (V)                                                                                                 |                                |
| Minimum Illumination    | Color                                                | FE: 0.15 Lux; SD: 0.5 Lux                                                                                                                           | FE: 0.1 Lux; SD: 0.5 Lux                                                                                                                         |                                |
|                         | B/W                                                  | FE: 0.15 Lux; SD: 0.1 Lux                                                                                                                           | FE: 0.05 Lux; SD: 0.1 Lux                                                                                                                        |                                |
| Shutter Speed           |                                                      | FE: Automatic, Manual (1/5 ~ 1/8000 sec)<br>SD: Automatic, Manual (1/6 ~ 1/60000 sec)                                                               | FE: Automatic, Manual (1/25 ~ 1/16000 sec.)<br>SD: Automatic, Manual (1/6 ~ 1/30000 sec.)                                                        |                                |
| White Balance           |                                                      | Automatic, Manual (2800K ~ 8500K)                                                                                                                   |                                                                                                                                                  |                                |
| Gain Control            |                                                      | FE: Automatic; SD: Automatic, Manual                                                                                                                |                                                                                                                                                  |                                |
| S/N Ratio               |                                                      | FE: 45 dB; SD: 50 dB (AGC Off)                                                                                                                      | FE: 52 dB; SD: 50 dB (AGC Off)                                                                                                                   |                                |
| WDR                     |                                                      | FE: Yes (WDR); SD: Yes (WDR Pro)                                                                                                                    | FE: N/A; SD: Yes (WDR Pro)                                                                                                                       |                                |
| Dynamic Range           |                                                      | FE: Up to 72 dB; SD: Up to 100 dB                                                                                                                   |                                                                                                                                                  |                                |
| Operation               |                                                      |                                                                                                                                                     |                                                                                                                                                  |                                |
| Video Compression       |                                                      | H.264, MJPEG                                                                                                                                        | H.265 (SD Only), H.264, MJPEG                                                                                                                    |                                |
| Video Streaming         |                                                      | Dual streams from H.264 or MJPEG                                                                                                                    | Dual streams from H.265 (SD Only), H.264 or MJPEG                                                                                                |                                |
| Frame Rate              |                                                      | FE: 10 fps at 2560 x 1920, 15 fps at 2048 x 1944, 1440 x 1376, 1280 x 1200<br>SD: 30 fps at 1920 x 1080, 60 fps at 1280 x 720, 640 x 360, 448 x 252 | FE: 15 fps at 4000 x 3000, 25 fps at 2896 x 2768 (60/50 Hz)<br>SD: Up to 30 fps at 1920 x 1080 (60 Hz), 50 fps at 1920 x 1080 (50 Hz)            |                                |
| Audio Compression       |                                                      | G.711                                                                                                                                               |                                                                                                                                                  |                                |
| Audio Support           |                                                      | Two-way Audio (external microphone and speaker required)                                                                                            |                                                                                                                                                  |                                |
| Sensor Input            |                                                      | 4 Input (Dry Contact)                                                                                                                               |                                                                                                                                                  |                                |
| Alarm Output            |                                                      | 1 Digital Output (200 mA 5V DC)                                                                                                                     | 1 Digital Output (4A 30V DC / 250V AC)                                                                                                           |                                |
| Pan Travel              |                                                      | 355°                                                                                                                                                | 360°                                                                                                                                             |                                |
| Tilt Travel             |                                                      | -15° ~ 195°                                                                                                                                         |                                                                                                                                                  |                                |
| Proportional Pan & Tilt |                                                      | Auto (Pan and tilt speed proportional to zoom ratio)                                                                                                |                                                                                                                                                  |                                |
| Picture Flip            |                                                      | On / Off                                                                                                                                            |                                                                                                                                                  |                                |
| Sequence                | Max. Number                                          | 8                                                                                                                                                   |                                                                                                                                                  |                                |
|                         | Max. Presets                                         | 16                                                                                                                                                  |                                                                                                                                                  |                                |
| Auto Pan                |                                                      | 8                                                                                                                                                   |                                                                                                                                                  |                                |
| Cruise                  |                                                      | 4                                                                                                                                                   |                                                                                                                                                  |                                |
| Tour                    | Max. Number                                          | 8                                                                                                                                                   |                                                                                                                                                  |                                |
|                         | Max. Number of Preset / Sequence / Auto Pan / Cruise | 16                                                                                                                                                  |                                                                                                                                                  |                                |
| Privacy Mask            |                                                      | 8                                                                                                                                                   |                                                                                                                                                  |                                |
| Wide Dynamic Range      |                                                      | On / Off                                                                                                                                            |                                                                                                                                                  |                                |
| Optical Lens            |                                                      |                                                                                                                                                     |                                                                                                                                                  |                                |
| Day/Night               |                                                      | FE: Yes (Electronic);<br>SD: Yes (with removable IR-cut filter)                                                                                     |                                                                                                                                                  |                                |
| Focal Length            |                                                      | FE: 1.32 mm; SD: 5.1 ~ 51 mm                                                                                                                        | FE: 1.505 mm; SD: 4.7 ~ 94 mm                                                                                                                    | FE: 1.505 mm; SD: 4.3 ~ 129 mm |
| Maximum Aperture        |                                                      | FE: F/2.0; SD: F/1.6                                                                                                                                |                                                                                                                                                  |                                |
| Horizontal FOV          |                                                      | FE: 180°; SD: 54° ~ 4.9°                                                                                                                            | FE: 180°; SD: 55.4° ~ 2.9°                                                                                                                       | FE: 180°; SD: 58.9° ~ 2.11°    |
| Operation               | Focus                                                | FE: Fixed; SD: Auto / Manual                                                                                                                        |                                                                                                                                                  |                                |
|                         | Zoom                                                 | FE: Fixed; SD: 10x                                                                                                                                  | FE: Fixed; SD: 20x                                                                                                                               | FE: Fixed; SD: 30x             |
|                         | Iris                                                 | FE: Fixed; SD: Auto / Manual                                                                                                                        |                                                                                                                                                  |                                |
| Mechanical              |                                                      |                                                                                                                                                     |                                                                                                                                                  |                                |
| Temperature Detector    |                                                      | Yes                                                                                                                                                 |                                                                                                                                                  |                                |
| Connectors              | Power                                                | DC Jack, PoE++                                                                                                                                      |                                                                                                                                                  |                                |
|                         | Ethernet                                             | Ethernet (10/100 Base-T), RJ-45 Connector                                                                                                           |                                                                                                                                                  |                                |
|                         | Audio                                                | 1 In, 1 Out (RCA female for microphone and speaker)                                                                                                 |                                                                                                                                                  |                                |
|                         | Digital I/O                                          | I/O wires                                                                                                                                           |                                                                                                                                                  |                                |
|                         | Local Storage                                        | 2 micro SD card slots (SD/SDHC, SD version 2.0 only, Class 10)<br><br>* UHS-I/SDXC card type is not supported.                                      | FE: Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>SD: SD card slot (SD/SDHC/SDXC/UHS-I, Class 10)<br>* UHS-II card type is not supported. |                                |
| General                 |                                                      |                                                                                                                                                     |                                                                                                                                                  |                                |
| Operating Temperature   |                                                      | -40°C ~ 50°C (-40°F ~ 122°F)                                                                                                                        |                                                                                                                                                  |                                |
| Heater                  |                                                      | Heater 1 On: 5°C (41°F); Off: 8°C (46.4°F) Heater 2 On: -7°C (19.4°F); Off: -2°C (28.4°F)                                                           | Heater 1 On: 15°C (59°F); Off: 18°C (64.4°F) Heater 2 On: 3°C (37.4°F); Off: 8°C (46.4°F)                                                        |                                |
| Fan On                  |                                                      | 45°C (113°F)                                                                                                                                        | > 55°C (149°F), < 15°C (59°F)                                                                                                                    |                                |
| Humidity                |                                                      | 20% to 90% (no condensation)                                                                                                                        | 10% to 90% (no condensation)                                                                                                                     |                                |
| Power Source            |                                                      | DC 24V / AC 24V / High PoE (PoE++, 40 W)                                                                                                            | DC 24V / AC 24V / High PoE (PoE++, 53 W)                                                                                                         |                                |
| Max. Power Consumption  |                                                      | 40 W                                                                                                                                                | 57.2 W                                                                                                                                           |                                |
| Regulatory              |                                                      | CE, FCC, RCM, RoHS compliant                                                                                                                        |                                                                                                                                                  |                                |
| Dimensions              |                                                      | Ø 211.63 x 272.00 mm (8.332" x 10.709")                                                                                                             | Ø 211 x 277 mm (8.3" x 10.9")                                                                                                                    |                                |
| Weight                  |                                                      | 3.75 kg (8.27 lb)                                                                                                                                   | 3.3 kg (7.27 lb)                                                                                                                                 |                                |
| Ingress Protection      |                                                      | IP67                                                                                                                                                |                                                                                                                                                  |                                |
| Vandal Resistance       |                                                      | IK10 for metal and polycarbonate casing                                                                                                             | IK10 for metal casing                                                                                                                            |                                |

Note: Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Thermal IP Camera

|                                     |                     |                                                                                    |  |
|-------------------------------------|---------------------|------------------------------------------------------------------------------------|--|
|                                     |                     | GV-TM0100                                                                          |  |
|                                     |                     |  |  |
| Camera                              |                     |                                                                                    |  |
| Image Sensor                        |                     | Uncooled FPA Micro bolometer                                                       |  |
| Picture Elements                    |                     | 352 (H) x 288 (V)                                                                  |  |
| Pixel Size                          |                     | 25 um                                                                              |  |
| Thermal Sensitivity                 |                     | ≤100 mK at f/1,300K                                                                |  |
| Spectral Range                      |                     | 8 ~ 14 um                                                                          |  |
| Gain Control                        |                     | Auto, Manual                                                                       |  |
| Operation                           |                     |                                                                                    |  |
| Video Compression                   |                     | H.264, MJPEG                                                                       |  |
| Video Streaming                     |                     | Single streams from H.264 or MJPEG                                                 |  |
| Frame Rate                          |                     | 25 fps at 352 x 288                                                                |  |
| Image Setting                       |                     | Brightness, Contrast                                                               |  |
| Noise Reduction                     |                     | Yes                                                                                |  |
| Audio Support                       |                     | N/A                                                                                |  |
| Optical Lens                        |                     |                                                                                    |  |
| Focal Length                        |                     | 40 mm                                                                              |  |
| Horizontal FOV                      |                     | 13.7°                                                                              |  |
| Operation                           | Focus               | Auto / Manual                                                                      |  |
|                                     | Zoom                | 2x (Digital)                                                                       |  |
|                                     | Iris                | N/A                                                                                |  |
| Observation Range                   |                     |                                                                                    |  |
| Detection<br>(2 pixels on target)   | Human (1.8 x 0.5 m) | 1450 m (4757 ft)                                                                   |  |
|                                     | Car (2.3 x 2.3 m)   | 1850 m (6070 ft)                                                                   |  |
| Recognition<br>(4 pixels on target) | Human (1.8 x 0.5 m) | 480 m (1575 ft)                                                                    |  |
|                                     | Car (2.3 x 2.3 m)   | 920 m (3018 ft)                                                                    |  |
| Mechanical                          |                     |                                                                                    |  |
| Connectors                          | Power               | 2-pin terminal block, PoE                                                          |  |
|                                     | Ethernet            | Ethernet (10/100 Base-T), RJ-45 cable                                              |  |
|                                     | Audio               | N/A                                                                                |  |
| General                             |                     |                                                                                    |  |
| Environment Temperature             |                     | -20°C ~ 40 °C (-4 °F ~ 104 °F)                                                     |  |
| Humidity                            |                     | 20% to 90% (no condensation)                                                       |  |
| Power Source                        |                     | 12V DC / PoE (IEEE 802.3af)                                                        |  |
| Max. Power Consumption              |                     | 10 W                                                                               |  |
| Regulatory                          |                     | CE, FCC, RCM, RoHS compliant                                                       |  |
| Dimensions                          |                     | 485.5 x 249.48 x 156.99 mm (19.11" x 9.82" x 6.18")                                |  |
| Weight (with rack)                  |                     | 2.75 kg (6.06 lb)                                                                  |  |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Virtual Reality IP Camera

|                                  |               |                                                                                                                                    |  |
|----------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------|--|
|                                  |               | GV-VR360                                                                                                                           |  |
|                                  |               |                                                   |  |
| Camera                           |               |                                                                                                                                    |  |
| Image Sensor                     |               | 1/2.9" progressive scan CMOS                                                                                                       |  |
| Picture Elements                 |               | 3840 (H) x 2160 (V)                                                                                                                |  |
| Minimum Illumination             | Color         | 0.05 Lux                                                                                                                           |  |
|                                  | B/W           | 0.04 Lux                                                                                                                           |  |
|                                  | IR ON         | 0 Lux                                                                                                                              |  |
| Shutter Speed                    |               | Automatic, Manual (1/5 ~ 1/8000 sec.)                                                                                              |  |
| White Balance                    |               | Automatic, Manual                                                                                                                  |  |
| Gain Control                     |               | Automatic                                                                                                                          |  |
| S/N Ratio                        |               | 50 dB                                                                                                                              |  |
| WDR                              |               | Yes                                                                                                                                |  |
| Dynamic Range                    |               | 96 dB                                                                                                                              |  |
| Operation                        |               |                                                                                                                                    |  |
| Video Compression                |               | H.265, H.264                                                                                                                       |  |
| Video Streaming                  |               | Stream 1 from H.265 or H.264<br>Stream 2 from H.264                                                                                |  |
| Frame Rate                       |               | 30 fps at 3840 x 2160 (50/60 Hz)                                                                                                   |  |
| Image Setting                    |               | Brightness, Contrast, Saturation, Sharpness, White Balance, Flicker-less, Image Orientation, D/N Sensitivity, WDR, Defog, Metering |  |
| Audio Compression                |               | G.711, AAC<br>* The AAC audio codec is for custom procurement; consult our sales representatives before purchasing.                |  |
| Audio Support                    |               | One-way Audio                                                                                                                      |  |
| Sensor Input                     |               | 1 Input (Dry Contact)                                                                                                              |  |
| Alarm Output                     |               | 1 Digital Output (200 mA 5V DC)                                                                                                    |  |
| Optical Lens                     |               |                                                                                                                                    |  |
| Day/Night                        |               | Yes (with removable IR-cut filter)                                                                                                 |  |
| Lens Type                        |               | Fixed                                                                                                                              |  |
| Focal Length                     |               | 1.05 mm                                                                                                                            |  |
| Maximum Aperture                 |               | F/2.25                                                                                                                             |  |
| Mount                            |               | M12                                                                                                                                |  |
| Horizontal FOV                   |               | 360°                                                                                                                               |  |
| Operation                        | Focus         | Fixed                                                                                                                              |  |
|                                  | Zoom          | Fixed                                                                                                                              |  |
|                                  | Iris          | Fixed                                                                                                                              |  |
| IR LED Quantity                  |               | 4 IR LEDs                                                                                                                          |  |
| Max. IR Distance                 |               | 10 m (35 ft)                                                                                                                       |  |
| Video Resolution                 |               |                                                                                                                                    |  |
| Main Stream                      | 16:9          | 3840 x 2160 (Default), 2560 x 1440, 1920 x 1080, 1280 x 720                                                                        |  |
| Sub Stream                       |               | Closed (Default), 3840 x 2160, 2560 x 1440, 1920 x 1080, 1280 x 720                                                                |  |
| Network                          |               |                                                                                                                                    |  |
| Interface                        |               | 10/100 Ethernet                                                                                                                    |  |
| Mechanical                       |               |                                                                                                                                    |  |
| Temperature Detector             |               | N/A                                                                                                                                |  |
| Connectors                       | Power         | DC 12V, 1.25A, DC Jack / PoE                                                                                                       |  |
|                                  | Ethernet      | 10/100 Base-T, RJ-45 Connector                                                                                                     |  |
|                                  | Audio         | 1 in (built-in or external microphone)                                                                                             |  |
|                                  | Digital I/O   | I/O wires                                                                                                                          |  |
|                                  | Local Storage | N/A                                                                                                                                |  |
| General                          |               |                                                                                                                                    |  |
| Environment                      | Start-up      | -20°C ~ 50°C (-4°F ~ 122°F)                                                                                                        |  |
| Temperature                      | Operation     | -30°C ~ 50°C (-22°F ~ 122°F)                                                                                                       |  |
| Humidity                         |               | 10% ~ 90% (no condensation)                                                                                                        |  |
| Power Source                     |               | DC 12V / PoE (PoE+, IEEE 802.3at)                                                                                                  |  |
| Max. Power Consumption           |               | 12 W                                                                                                                               |  |
| Regulatory                       |               | CE, FCC, LVD, RCM compliant                                                                                                        |  |
| Dimensions (Straight Tube Mount) |               | Ø 164 x 64 x 45.2 mm (6.46" x 2.52" x 1.78")                                                                                       |  |
| Weight                           |               | 0.58 kg (1.28 lb)                                                                                                                  |  |
| Ingress Protection               |               | IP67                                                                                                                               |  |
| Vandal Resistance                |               | IK10 for metal casing                                                                                                              |  |

### Note:

1. H.265 video codec is not supported for YouTube streaming.
2. Product design and specifications are subject to change without notice.



## Face Recognition IP Camera

|                                   |                    | GV-VD8700 (Outdoor)                                                                                            | GV-FD8700-FR (Indoor)           |
|-----------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------|
|                                   |                    |                               |                                 |
| Camera                            |                    |                                                                                                                |                                 |
| Image Sensor                      |                    | 1/2.5" progressive scan low lux CMOS                                                                           |                                 |
| Picture Elements                  |                    | 3840 (H) x 2160 (V)                                                                                            |                                 |
| Minimum Illumination              | Color              | 0.05 Lux                                                                                                       |                                 |
|                                   | B/W                | 0.04 Lux                                                                                                       |                                 |
|                                   | IR ON              | 0 Lux                                                                                                          |                                 |
| Shutter Speed                     |                    | Automatic, Manual (1/30 ~ 1/8000 sec)                                                                          |                                 |
| White Balance                     |                    | Auto, Manual (2800K ~ 8500K)                                                                                   |                                 |
| Gain Control                      |                    | Automatic                                                                                                      |                                 |
| S/N Ratio                         |                    | 56 dB                                                                                                          |                                 |
| WDR Pro (with WDR sensor)         |                    | WDR                                                                                                            |                                 |
| Dynamic Range                     |                    | Up to 96 dB                                                                                                    |                                 |
| Operation                         |                    |                                                                                                                |                                 |
| Video Compression                 |                    | H.265, H.264                                                                                                   |                                 |
| Video Streaming                   |                    | Stream 1 from H.265 or H.264, Stream 2 from H.264, Stream 3 from H.264                                         |                                 |
| Frame Rate                        |                    | 30 fps at 3840 x 2160 (50 / 60 Hz)                                                                             |                                 |
| Audio Compression                 |                    | G.711                                                                                                          |                                 |
| Audio Support                     |                    | One-way Audio                                                                                                  |                                 |
| Sensor Input                      |                    | 1 Input (Dry Contact)                                                                                          |                                 |
| Alarm Output                      |                    | 1 Digital Output (200mA 5V DC)                                                                                 |                                 |
| Optical Lens                      |                    |                                                                                                                |                                 |
| Day/Night                         |                    | Yes (with removable IR-cut filter)                                                                             |                                 |
| Lens Type                         |                    | Varifocal Lens                                                                                                 |                                 |
| Focal Length                      |                    | 3.3 ~ 12 mm                                                                                                    |                                 |
| Maximum Aperture                  |                    | F/1.4                                                                                                          |                                 |
| Mount                             |                    | Ø14 mm                                                                                                         |                                 |
| Image Format                      |                    | 1/2.5"                                                                                                         |                                 |
| Horizontal FOV                    |                    | 106° ~ 42°                                                                                                     |                                 |
| Operation                         | Focus / Zoom       | Manual (w/lock)                                                                                                |                                 |
|                                   | Iris               | P-Iris                                                                                                         |                                 |
| IR LED Quantity                   |                    | 20 IR LEDs                                                                                                     |                                 |
| Max. IR Distance                  |                    | 40 m (130 ft)                                                                                                  |                                 |
| Face Recognition                  |                    |                                                                                                                |                                 |
| Environment                       |                    | 600 lux                                                                                                        |                                 |
| Recognition face angle            | Tilt (Up/Down)     | ± 15°                                                                                                          |                                 |
|                                   | Swing (Left/Right) | ± 15°                                                                                                          |                                 |
| Max. No of Faces                  |                    | Up to 10                                                                                                       |                                 |
| Min. Face Image Pixel Requirement |                    | 120 x 120                                                                                                      |                                 |
| Mechanical                        |                    |                                                                                                                |                                 |
| Camera Angle Adjustment           | Pan                | 0° ~ 350°                                                                                                      |                                 |
|                                   | Tilt               | 0° ~ 75°                                                                                                       |                                 |
|                                   | Rotate             | 0° ~ 340°                                                                                                      |                                 |
| 3-axis Mechanism                  |                    | Yes                                                                                                            |                                 |
| Temperature Detector              |                    | Yes                                                                                                            |                                 |
| Connectors                        | Power              | 2-pin terminal block (DC 12V, 3A), PoE                                                                         |                                 |
|                                   | Ethernet           | Ethernet (10/100 Base-T), RJ-45 connector                                                                      |                                 |
|                                   | Audio              | 1 In (built-in or external microphone with power supply); 1 Out (3.5 mm stereo jack; currently not functional) |                                 |
|                                   | Digital I/O        | I/O wires                                                                                                      |                                 |
|                                   | Local Storage      | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.                          |                                 |
| TV-Out                            |                    | N/A                                                                                                            |                                 |
| LED Indicator                     |                    | 2 LEDs: Power, Status                                                                                          |                                 |
| General                           |                    |                                                                                                                |                                 |
| Environment                       | Startup            | -20 °C ~ 50 °C (-4 °F ~ 122 °F)                                                                                |                                 |
| Temperature                       | Operation          | -30 °C ~ 50 °C (-22 °F ~ 122 °F)                                                                               |                                 |
| Humidity                          |                    | 10% ~ 90% (no condensation)                                                                                    |                                 |
| Power Source                      |                    | 12V DC / PoE (IEEE 802.3af)                                                                                    |                                 |
| Max. Power Consumption            |                    | 11.04 W                                                                                                        |                                 |
| Regulatory                        |                    | CE, FCC, RCM, LVD, RoHS compliant                                                                              |                                 |
| Dimensions (L X W X H)            |                    | Ø 160 x 108.4 mm (6.2" x 4.27")                                                                                | Ø 125 x 99.5 mm (4.92" x 3.92") |
| Weight                            |                    | 1.2 g (2.64 lb)                                                                                                | 470 g (1.04 lb)                 |
| Ingress Protection                |                    | IP66                                                                                                           | N/A                             |
| Vandal Resistance                 |                    | IK10                                                                                                           | N/A                             |

**Note:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Face Detection IP Camera

|                                   |                    | GV-BX2600-FD                                                                         | GV-BX2700-FD                                                            | GV-BX4700-FD                                | GV-BX8700-FD                                | GV-MD8710-FD                                                                        |
|-----------------------------------|--------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|
|                                   |                    |     |                                                                         |                                             |                                             |  |
| Camera                            |                    |                                                                                      |                                                                         |                                             |                                             |                                                                                     |
| Image Sensor                      |                    | 1/2.8" progressive scan<br>super low lux CMOS                                        |                                                                         | 1/3" progressive scan<br>super low lux CMOS | 1/2" progressive scan<br>super low lux CMOS | 1/2" progressive scan<br>super low lux CMOS                                         |
| Picture Elements                  |                    | 1920 (H) x 1080 (V)                                                                  |                                                                         | 2592 (H) x 1520 (V)                         | 3840(H) x 2160(V)                           |                                                                                     |
| Minimum                           | Color              | 0.005 Lux                                                                            |                                                                         | 0.03 Lux                                    | 0.04 Lux                                    | 0.04 Lux                                                                            |
| Illumination                      | B/W                | 0.004 Lux                                                                            |                                                                         | 0.02 Lux                                    | 0.03 Lux                                    | 0.03 Lux                                                                            |
| Shutter Speed                     |                    | Auto, Manual (1/30 ~ 1/16000 sec)                                                    |                                                                         |                                             |                                             |                                                                                     |
| White Balance                     |                    | Auto, Manual (2800K ~ 8500K)                                                         |                                                                         |                                             |                                             |                                                                                     |
| Gain Control                      |                    | Automatic                                                                            |                                                                         |                                             |                                             |                                                                                     |
| S/N Ratio                         |                    | 56 dB                                                                                |                                                                         | 50 dB                                       | 52 dB                                       |                                                                                     |
| WDR                               |                    | WDR Pro                                                                              |                                                                         |                                             |                                             |                                                                                     |
| Dynamic Range                     |                    | Up to 130 dB                                                                         |                                                                         | Up to 120 dB                                |                                             |                                                                                     |
| Operation                         |                    |                                                                                      |                                                                         |                                             |                                             |                                                                                     |
| Video Compression                 |                    | H.265, H.264, MJPEG                                                                  |                                                                         |                                             |                                             |                                                                                     |
| Video Streaming                   |                    | Triple streams                                                                       |                                                                         |                                             |                                             |                                                                                     |
| Frame Rate                        |                    | 30 fps at 1920 x 1080                                                                | 20 fps at 2592 x 1520<br>24 fps at 2560 x 1440<br>30 fps at 2048 x 1520 |                                             | 30 fps at 3840 x 2160                       | 30 fps at 3840 x 2160                                                               |
| Audio Compression                 |                    | G.711                                                                                |                                                                         |                                             |                                             |                                                                                     |
| Sensor Input                      |                    | 1 Input (Dry Contact)                                                                |                                                                         |                                             |                                             |                                                                                     |
| Alarm Output                      |                    | 1 Digital Output (200 mA 5 V DC)                                                     |                                                                         |                                             |                                             |                                                                                     |
| Audio Support                     |                    | Two-way Audio (external speaker required)                                            |                                                                         |                                             |                                             | Two-way Audio (external microphone and speaker required)                            |
| Optical Lens                      |                    |                                                                                      |                                                                         |                                             |                                             |                                                                                     |
| Day/Night                         |                    | Yes (with removable IR-cut filter)                                                   |                                                                         |                                             |                                             |                                                                                     |
| Lens Type                         |                    | Varifocal                                                                            |                                                                         |                                             |                                             | Motorized varifocal lens                                                            |
| Focal Length                      |                    | 3 ~ 10.5 mm                                                                          |                                                                         |                                             | 3.6 ~ 10 mm                                 | 4 ~ 8 mm                                                                            |
| Maximum Aperture                  |                    | F/1.4                                                                                |                                                                         |                                             | F/1.5                                       | F/1.44                                                                              |
| Mount                             |                    | CS Mount                                                                             |                                                                         |                                             |                                             | Ø14 mm                                                                              |
| Image Format                      |                    | 1/2.7"                                                                               |                                                                         |                                             | 1/1.18"                                     | 1/2.5"                                                                              |
| Horizontal FOV                    |                    | 100° ~ 35°                                                                           | 78° ~ 31°                                                               |                                             | 108° ~ 48°                                  | 112° ~ 61°                                                                          |
| Operation                         | Focus              | Manual (w/lock)                                                                      |                                                                         |                                             |                                             | Auto                                                                                |
|                                   | Zoom               | Manual (w/lock)                                                                      |                                                                         |                                             |                                             | 2X optical zoom                                                                     |
|                                   | Iris               | P-Iris                                                                               |                                                                         |                                             |                                             |                                                                                     |
| IR LED Quantity                   |                    | N/A                                                                                  |                                                                         |                                             |                                             | 4 IR LEDs                                                                           |
| Max. IR Distance                  |                    | N/A                                                                                  |                                                                         |                                             |                                             | 30 m (100 ft)                                                                       |
| Face Detection                    |                    |                                                                                      |                                                                         |                                             |                                             |                                                                                     |
| Environment                       |                    | 600 lux                                                                              |                                                                         |                                             |                                             |                                                                                     |
| Detection face angle              | Tilt (Up/Down)     | ± 30°                                                                                |                                                                         |                                             |                                             |                                                                                     |
|                                   | Swing (Left/Right) | ± 60°                                                                                |                                                                         |                                             |                                             |                                                                                     |
| Max. No of Faces                  |                    | Up to 32                                                                             | Up to 16                                                                |                                             |                                             | Up to 32                                                                            |
| Min. Face Image Pixel Requirement |                    | 100 x 100                                                                            |                                                                         |                                             | 130 x 130                                   |                                                                                     |
| Mechanical                        |                    |                                                                                      |                                                                         |                                             |                                             |                                                                                     |
| Camera Angle Adjustment           | Pan                | N/A                                                                                  |                                                                         |                                             |                                             | 0° ~ 350°                                                                           |
|                                   | Tilt               |                                                                                      |                                                                         |                                             |                                             | 0° ~ 75°                                                                            |
|                                   | Rotate             |                                                                                      |                                                                         |                                             |                                             | 0° ~ 340°                                                                           |
| Connectors                        | Power              | 2-pin terminal block, PoE                                                            |                                                                         |                                             |                                             |                                                                                     |
|                                   | Ethernet           | Ethernet (10/100 Base-T), RJ-45 cable                                                |                                                                         |                                             |                                             |                                                                                     |
|                                   | Audio              | 1 In (built-in or external microphone), 1 Out (3.5 mm stereo jack')                  |                                                                         |                                             |                                             | 1 In, 1 Out (3.5 mm stereo jack)                                                    |
|                                   | Auto Iris          | Yes (with varifocal lens)                                                            |                                                                         |                                             |                                             | Yes (with motorized lens)                                                           |
|                                   | Digital I/O        | 3-pin terminal block, pitch 2.5 mm/0.1"                                              |                                                                         |                                             |                                             | I/O wires                                                                           |
|                                   | Local Storage      | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported |                                                                         |                                             |                                             |                                                                                     |
|                                   | TV-Out             | BNC connector (640 x 480 resolution)                                                 |                                                                         |                                             |                                             | N/A                                                                                 |
|                                   | Mini USB           | GV-WiFi Adapter or USB hard drive                                                    |                                                                         |                                             |                                             | N/A                                                                                 |
| LED Indicator                     |                    | 2 LEDs: Power, Status                                                                |                                                                         |                                             |                                             |                                                                                     |
| General                           |                    |                                                                                      |                                                                         |                                             |                                             |                                                                                     |
| Environment Temperature           |                    | 0 °C ~ 50 °C (32 °F ~ 122 °F)                                                        |                                                                         |                                             |                                             |                                                                                     |
| Humidity                          |                    | 10% ~ 90% (no condensation)                                                          |                                                                         |                                             |                                             |                                                                                     |
| Power Source                      |                    | 12V DC / PoE (IEEE 802.3af)                                                          |                                                                         |                                             |                                             |                                                                                     |
| Max. Power Consumption            |                    | 6 W                                                                                  | 4.9 W                                                                   |                                             |                                             | 6 W 9.5 W                                                                           |
| Regulatory                        |                    | CE, FCC, RCM, LVD, RoHS compliant                                                    |                                                                         |                                             | CE, FCC, LVD, RoHS compliant                |                                                                                     |
| Dimensions (L X W X H)            |                    | 75.5 x 75 x 54 mm (2.97" x 2.95" x 2.13")                                            |                                                                         |                                             | ø 125 x 99.5 mm (4.92" x 3.92")             |                                                                                     |
| Weight                            |                    | 320 g (0.7 lb)                                                                       | 350 g (0.77 lb)                                                         |                                             |                                             | 500 g (1.10 lb)                                                                     |

### Note:

- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640x480.
- Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).



## Surround Video IP Camera

|                                  |               |                                                                                                                       |  |
|----------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------|--|
|                                  |               | GV-SV48000                                                                                                            |  |
|                                  |               |                                      |  |
| Camera                           |               |                                                                                                                       |  |
| Image Sensor                     |               | 4 x 1/1.7" progressive scan CMOS                                                                                      |  |
| Picture Elements                 |               | 4 x 4000 (H) x 3000 (V)                                                                                               |  |
| Minimum Illumination             | Color         | 0.1 Lux                                                                                                               |  |
|                                  | B/W           | 0.05 Lux                                                                                                              |  |
|                                  | IR ON         | 0 Lux                                                                                                                 |  |
| Shutter Speed                    |               | Automatic, Manual (1/30 ~ 1/16000 sec)                                                                                |  |
| White Balance                    |               | Automatic, Manual (2800 ~ 8500K)                                                                                      |  |
| Gain Control                     |               | Automatic                                                                                                             |  |
| S/N Ratio                        |               | 54 dB                                                                                                                 |  |
| WDR                              |               | Yes                                                                                                                   |  |
| Dynamic Range                    |               | Up to 72 dB                                                                                                           |  |
| Operation                        |               |                                                                                                                       |  |
| Video Compression                |               | H.264, MJPEG                                                                                                          |  |
| Video Streaming                  |               | Dual streams from H.264 or MJPEG                                                                                      |  |
| Frame Rate                       |               | 15 fps at 4000 x 3000 (60/50 Hz)                                                                                      |  |
|                                  |               | *The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes). |  |
| Audio Compression                |               | G.711                                                                                                                 |  |
| Audio Support                    |               | Two-way Audio                                                                                                         |  |
| Sensor Input                     |               | 4 Input (Dry Contact)                                                                                                 |  |
| Alarm Output                     |               | 1 Digital Output (4A 30V DC/250V AC)                                                                                  |  |
| Optical Lens                     |               |                                                                                                                       |  |
| Day/Night                        |               | Yes (with removable IR-cut filter)                                                                                    |  |
| Lens Type                        |               | Fixed                                                                                                                 |  |
| Focal Length                     |               | 3.93 mm                                                                                                               |  |
| Maximum Aperture                 |               | F/2.3                                                                                                                 |  |
| Mount                            |               | M12, Pitch 0.5 mm                                                                                                     |  |
| Horizontal FOV                   |               | 112°                                                                                                                  |  |
| Operation                        | Focus         | Fixed                                                                                                                 |  |
|                                  | Zoom          | N/A                                                                                                                   |  |
|                                  | Iris          | Fixed                                                                                                                 |  |
| IR LED Quantity                  |               | 12 IR LEDs                                                                                                            |  |
| Max. IR Distance                 |               | 50 m (165 ft)                                                                                                         |  |
| Video Resolution                 |               |                                                                                                                       |  |
| Main Stream                      | 4:3           | 4000 x 3000 (Default)                                                                                                 |  |
| Sub Stream                       |               | 1024 x 768 (Default), 640 x 480, 320 x 240                                                                            |  |
| Network                          |               |                                                                                                                       |  |
| Interface                        |               | 10/100 Ethernet                                                                                                       |  |
| Mechanical                       |               |                                                                                                                       |  |
| Temperature Detector             |               | Yes                                                                                                                   |  |
| Connectors                       | Power         | DC Jack, PoE ++                                                                                                       |  |
|                                  | Ethernet      | RJ-45                                                                                                                 |  |
|                                  | Audio         | 1 In (RCA female for microphone); 1 Out (RCA female for speaker)                                                      |  |
|                                  | Digital I/O   | I/O wires                                                                                                             |  |
|                                  | Local Storage | Micro SD card slot x 4 (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.                             |  |
| General                          |               |                                                                                                                       |  |
| Environment Temperature          | Start-up      | -40°C (-40°F)                                                                                                         |  |
|                                  | Operation     | -40°C ~ 50°C (-40°F ~ 122°F)                                                                                          |  |
| Heater                           |               | Heater On: 0°C (32°F); Off: 5°C (41°F)                                                                                |  |
| Fan-on                           |               | 50°C (122°F)                                                                                                          |  |
| Humidity                         |               | 10% ~ 90% (no condensation)                                                                                           |  |
| Power Source                     |               | 24V DC, 3.75A / 24V AC, 3A / High PoE (PoE++, 72 W)                                                                   |  |
| Max. Power Consumption           |               | 72 W                                                                                                                  |  |
| Regulatory                       |               | CE, FCC, RoHS compliant                                                                                               |  |
| Dimensions (Straight Tube Mount) |               | Ø 325.60 mm x 152.60 mm (Ø 12.82" x 6.01")                                                                            |  |
| Weight                           |               | 3700 g (8.16 lb)                                                                                                      |  |
| Ingress Protection               |               | IP67                                                                                                                  |  |
| Vandal Resistance                |               | IK10 for metal casing                                                                                                 |  |

- Note:**
- The signal range and data throughput may vary depending on the network conditions and environmental factors.
  - Specifications are subject to change without notice.



## AI Deep Learning IP Camera (Part 1)

|                                  |               | GV-EBD4813                                                                                                            | GV-TBL4810                                                                                                     | GV-BLFC5800                                                                        | GV-EBFC5800                                                                         |
|----------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                  |               |                                      |                               |  |  |
| Camera                           |               |                                                                                                                       |                                                                                                                |                                                                                    |                                                                                     |
| Image Sensor                     |               | 1/3" progressive scan super low lux CMOS                                                                              | 1/3" progressive scan super low lux CMOS                                                                       | 1/2.7" progressive scan CMOS                                                       | 1/2.7" progressive scan CMOS                                                        |
| Picture Elements                 |               | 2688 (H) x 1520 (V)                                                                                                   |                                                                                                                | 2880 (H) x 1620 (V)                                                                |                                                                                     |
| Minimum Illumination             | Color         | 0.002 Lux (F1.2, AGC ON)                                                                                              | 0.002 Lux (F1.2, AGC ON)                                                                                       | 0.001 Lux (F1.0, AGC ON)                                                           |                                                                                     |
|                                  | B/W           | N/A                                                                                                                   |                                                                                                                |                                                                                    |                                                                                     |
|                                  | IR ON         | 0 Lux                                                                                                                 |                                                                                                                |                                                                                    |                                                                                     |
| Shutter Speed                    |               | Automatic / Manual (1 ~ 1/100000 sec)                                                                                 |                                                                                                                |                                                                                    |                                                                                     |
| White Balance                    |               | Automatic, Manual                                                                                                     |                                                                                                                |                                                                                    |                                                                                     |
| Gain Control                     |               | Automatic, Manual                                                                                                     |                                                                                                                |                                                                                    |                                                                                     |
| S/N Ratio                        |               | 56 dB                                                                                                                 |                                                                                                                |                                                                                    |                                                                                     |
| WDR                              |               | WDR Pro                                                                                                               |                                                                                                                |                                                                                    |                                                                                     |
| Dynamic Range                    |               | 120 dB                                                                                                                |                                                                                                                |                                                                                    |                                                                                     |
| Operation                        |               |                                                                                                                       |                                                                                                                |                                                                                    |                                                                                     |
| Video Compression                |               | H.265, H.264, MJPEG                                                                                                   |                                                                                                                |                                                                                    |                                                                                     |
| Video Streaming                  |               | Triple streams from H.265, H.264 or MJPEG                                                                             |                                                                                                                |                                                                                    |                                                                                     |
| Frame Rate                       |               | 30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296 (60 / 50 Hz)                                      |                                                                                                                | 30 fps at 2880 x 1620, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296                |                                                                                     |
|                                  |               | *The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes). |                                                                                                                |                                                                                    |                                                                                     |
| Audio Compression                |               | G.711                                                                                                                 |                                                                                                                |                                                                                    |                                                                                     |
| Audio Support                    |               | On-way Audio                                                                                                          | Two-way Audio (external microphone and speaker required)                                                       |                                                                                    | One-way audio                                                                       |
| Sensor Input                     |               | N/A                                                                                                                   | 1 Input, dry contact, NO / NC                                                                                  |                                                                                    | N/A                                                                                 |
| Alarm Output                     |               | N/A                                                                                                                   | 1 Relay Output (1A 30V DC / 0.3A 125V AC)                                                                      |                                                                                    | N/A                                                                                 |
| Optical Lens                     |               |                                                                                                                       |                                                                                                                |                                                                                    |                                                                                     |
| Day/Night                        |               | Yes (with removable IR-cut filter)                                                                                    |                                                                                                                | Yes                                                                                |                                                                                     |
| Lens Type                        |               | Motorized varifocal lens                                                                                              |                                                                                                                | Fixed                                                                              |                                                                                     |
| Focal Length                     |               | 2.7 ~ 13.5 mm                                                                                                         | 2.7 ~ 13.5 mm                                                                                                  | 4 mm                                                                               | 2.8 mm                                                                              |
| Maximum Aperture                 |               | F/1.2                                                                                                                 | F/1.2                                                                                                          | F/1.0                                                                              |                                                                                     |
| Mount                            |               | Ø 12 mm                                                                                                               | Ø 14 mm                                                                                                        | M12                                                                                |                                                                                     |
| Horizontal FOV                   |               | 98°~31°                                                                                                               | 98°~31°                                                                                                        | 80.2°                                                                              | 102°                                                                                |
| Operation                        | Focus         | Auto / Manual                                                                                                         |                                                                                                                | Fixed                                                                              |                                                                                     |
|                                  | Zoom          | 5x Optical Zoom                                                                                                       |                                                                                                                | Fixed                                                                              |                                                                                     |
|                                  | Iris          |                                                                                                                       |                                                                                                                | Fixed                                                                              |                                                                                     |
| IR LED Quantity                  |               | 2 IR LEDs                                                                                                             | 3 IR LEDs                                                                                                      | 2 Warm LEDs                                                                        |                                                                                     |
| Max. IR Distance                 |               | 40 m (130 ft)                                                                                                         | 50 m (165 ft)                                                                                                  | 30 m (100 ft)                                                                      |                                                                                     |
| Video Resolution                 |               |                                                                                                                       |                                                                                                                |                                                                                    |                                                                                     |
| Main Stream                      |               | 2688 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720                                              |                                                                                                                | 2880 x 1620 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720           |                                                                                     |
| Sub Stream                       |               | 1280 x 720, 720 x 576, 704 x 288, 640 x 360 (Default), 352 x 288                                                      |                                                                                                                | 1280 x 720, 720 x 576, 704 x 288, 640 x 480, 640 x 360 (Default), 352 x 288        | 1280 x 720, 720 x 576(Default), 704 x 288, 640 x 480, 640 x 360, 352 x 288          |
| Third Stream (Closed by Default) |               | 720 x 576, 704 x 288, 640 x 360, 352 x 288                                                                            |                                                                                                                | 640 x 360, 352 x 288                                                               | 720 x 576, 640 x 360, 706 x 288, 352 x 288                                          |
| Network                          |               |                                                                                                                       |                                                                                                                |                                                                                    |                                                                                     |
| Interface                        |               | 10/100 Ethernet                                                                                                       |                                                                                                                |                                                                                    |                                                                                     |
| Mechanical                       |               |                                                                                                                       |                                                                                                                |                                                                                    |                                                                                     |
| Camera Angle Adjustment          | Pan           | 0° ~ 360°                                                                                                             |                                                                                                                |                                                                                    | 3° ~ 360°                                                                           |
|                                  | Tilt          | 0° ~ 75°                                                                                                              | 0 ~ 90°                                                                                                        |                                                                                    | 0 ~ 80°                                                                             |
|                                  | Rotate        | 0° ~ 360°                                                                                                             |                                                                                                                |                                                                                    | 3° ~ 360°                                                                           |
| Connectors                       | Power         | DC Jack (DC 12V, 1.25A), PoE (IEEE 802.3af)                                                                           |                                                                                                                |                                                                                    |                                                                                     |
|                                  | Ethernet      | RJ-45                                                                                                                 |                                                                                                                |                                                                                    |                                                                                     |
|                                  | Audio         | 1 In (built-in microphone)                                                                                            | 1 in (Audio In Wire); 1 out (Audio Out Wire)<br>*The Audio In port only supports microphones with power supply |                                                                                    | 1 In (Built-in microphone)                                                          |
|                                  | Digital I/O   | N/A                                                                                                                   | 4-pin terminal block pitch 3.5 mm (0.14")                                                                      |                                                                                    | N/A                                                                                 |
|                                  | Local Storage | Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.                                 |                                                                                                                |                                                                                    |                                                                                     |
|                                  |               |                                                                                                                       |                                                                                                                |                                                                                    |                                                                                     |
| General                          |               |                                                                                                                       |                                                                                                                |                                                                                    |                                                                                     |
| Operating Temperature            |               | -30°C ~ 60°C (-22°F ~ 140°F)                                                                                          |                                                                                                                |                                                                                    |                                                                                     |
| Humidity                         |               | 0% ~ 95% (no condensation)                                                                                            |                                                                                                                |                                                                                    |                                                                                     |
| Power Source                     |               | 12V DC / PoE (IEEE802.3af)                                                                                            |                                                                                                                |                                                                                    |                                                                                     |
| Max. Power Consumption           |               | 7.0 W                                                                                                                 | 8.5 W                                                                                                          | 9.0 W                                                                              | 7.5 W                                                                               |
| Regulatory                       |               | CE, FCC, RoHS                                                                                                         |                                                                                                                |                                                                                    |                                                                                     |
| Dimensions                       |               | Ø 129 x 110 mm (Ø 5.1" x 4.3")                                                                                        | 244 x 96 x 74 mm (9.6" x 3.8" x 2.9")                                                                          | 246 x 86 x 85 mm (9.7" x 3.4" x 3.3")                                              | Ø 126 x 93 mm (Ø 5" x 3.7")                                                         |
| Weight                           |               | 0.69 kg (1.52 lb)                                                                                                     | 1.0 kg (2.2 lb)                                                                                                | 0.92 kg (2.02 lb)                                                                  | 0.44 kg (0.97 lb)                                                                   |
| Ingress Protection               |               | IP67                                                                                                                  |                                                                                                                |                                                                                    |                                                                                     |
| Vandal Resistance                |               | IK10 for metal casing                                                                                                 |                                                                                                                |                                                                                    | N/A                                                                                 |

- Note:**
- The signal range and data throughput may vary depending on the network conditions and environmental factors.
  - Specifications are subject to change without notice.



## AI Deep Learning IP Camera (Part 2)

|                                  |               | GV-TDR4803                                                                                                            | GV-TDR8805                                                                                                                                           | GV-TVD4810                                                                          |
|----------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                  |               |                                      |                                                                     |  |
| Camera                           |               |                                                                                                                       |                                                                                                                                                      |                                                                                     |
| Image Sensor                     |               | 1/3" progressive scan super low lux CMOS                                                                              | 1/2.7" progressive scan CMOS                                                                                                                         | 1/3" progressive scan super low lux CMOS                                            |
| Picture Elements                 |               | 2688 (H) x 1520 (V)                                                                                                   | 3840 (H) x 2160 (V)                                                                                                                                  | 2688 (H) x 1520 (V)                                                                 |
| Minimum Illumination             | Color         | 0.003 Lux (F1.6, AGC ON)                                                                                              | 0.003 Lux (F1.6, AGC ON)                                                                                                                             | 0.002 Lux (F1.2, AGC ON)                                                            |
|                                  | IR ON         | 0 Lux                                                                                                                 |                                                                                                                                                      |                                                                                     |
| Shutter Speed                    |               | Auto / Manual (1 ~ 1/100000 sec)                                                                                      |                                                                                                                                                      |                                                                                     |
| White Balance                    |               | Automatic, Manual                                                                                                     |                                                                                                                                                      |                                                                                     |
| Gain Control                     |               | Automatic, Manual                                                                                                     |                                                                                                                                                      |                                                                                     |
| S/N Ratio                        |               | 56 dB                                                                                                                 |                                                                                                                                                      |                                                                                     |
| WDR                              |               | WDR Pro                                                                                                               |                                                                                                                                                      |                                                                                     |
| Dynamic Range                    |               | 120 dB                                                                                                                |                                                                                                                                                      |                                                                                     |
| Operation                        |               |                                                                                                                       |                                                                                                                                                      |                                                                                     |
| Video Compression                |               | H.265, H.264, MJPEG                                                                                                   |                                                                                                                                                      |                                                                                     |
| Video Streaming                  |               | Triple streams from H.265, H.264 or MJPEG                                                                             |                                                                                                                                                      |                                                                                     |
| Frame Rate                       |               | 30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296 (60 / 50 Hz)                                      | 20 fps at 3840 x 2160, 30 fps at 3072 x 1728, 30 fps at 2560 x 1440, 30 fps at 1920 x 1080 (60 / 50 Hz)                                              | 30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296 (60 / 50 Hz)    |
|                                  |               | *The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes). |                                                                                                                                                      |                                                                                     |
| Audio Compression                |               | G.711                                                                                                                 |                                                                                                                                                      |                                                                                     |
| Audio Support                    |               | Two-way Audio (external microphone and speaker required)                                                              | Two-way Audio (external speaker required))                                                                                                           | Two-way Audio (external microphone and speaker required)                            |
| Sensor Input                     |               | 1 Input, dry contact, NO / NC                                                                                         |                                                                                                                                                      |                                                                                     |
| Alarm Output                     |               | 1 Relay Output (1A 30V DC / 0.3A 125V AC)                                                                             |                                                                                                                                                      |                                                                                     |
| Optical Lens                     |               |                                                                                                                       |                                                                                                                                                      |                                                                                     |
| Day/Night                        |               | Yes (with removable IR-cut filter)                                                                                    |                                                                                                                                                      |                                                                                     |
| Lens Type                        |               | Fixed                                                                                                                 |                                                                                                                                                      | Motorized varifocal lens                                                            |
| Focal Length                     | 2F            | 2.8 mm                                                                                                                | 2.8 mm                                                                                                                                               | 2.7 ~ 13.5mm                                                                        |
|                                  | 4F            | 4 mm                                                                                                                  |                                                                                                                                                      |                                                                                     |
| Maximum Aperture                 |               | F/1.6                                                                                                                 |                                                                                                                                                      | F/1.2                                                                               |
| Mount                            |               | M12                                                                                                                   |                                                                                                                                                      | Ø 14 mm                                                                             |
| Horizontal FOV                   |               | 101°                                                                                                                  | 112.9°                                                                                                                                               | 98~ 31°                                                                             |
| Operation                        | Focus         | Fixed                                                                                                                 |                                                                                                                                                      | Auto / Manual                                                                       |
|                                  | Zoom          |                                                                                                                       |                                                                                                                                                      | 5x Optical Zoom                                                                     |
|                                  | Iris          |                                                                                                                       |                                                                                                                                                      | Fixed                                                                               |
| IR LED Quantity                  |               | 1 IR LED                                                                                                              |                                                                                                                                                      | 2 IR LEDs                                                                           |
| Max. IR Distance                 |               | 30 m (100 ft)                                                                                                         |                                                                                                                                                      | 40 m (130 ft)                                                                       |
| Video Resolution                 |               |                                                                                                                       |                                                                                                                                                      |                                                                                     |
| Main Stream                      |               | 2688 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720                                              | 3840 x 2160 (Default), 3072 x 1728, 2560 x 1440, 1920 x 1080, 1280 x 720                                                                             | 2688 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720            |
| Sub Stream                       |               | 1280 x 720, 720 x 576, 704 x 288, 640 x 360 (Default), 352 x 288                                                      | 1920 x 1080, 1280 x 720, 720 x 576, 704 x 288, 640 x 480, 640 x 360 (Default), 352 x 288                                                             | 1280 x 720, 720 x 576, 704 x 288, 640 x 360 (Default), 352 x 288                    |
| Third Stream (Closed by Default) |               | 720 x 576, 704 x 288, 640 x 360, 352 x 288                                                                            | 640 x 360, 352 x 288                                                                                                                                 | 720 x 576, 704 x 288, 640 x 360, 352 x 288                                          |
| Network                          |               |                                                                                                                       |                                                                                                                                                      |                                                                                     |
| Interface                        |               | 10/100 Ethernet                                                                                                       |                                                                                                                                                      |                                                                                     |
| Mechanical                       |               |                                                                                                                       |                                                                                                                                                      |                                                                                     |
| Camera Angle Adjustment          | Pan           | 0° ~ 360°                                                                                                             | 3° ~ 360°                                                                                                                                            | 0° ~ 360°                                                                           |
|                                  | Tilt          | 0° ~ 68°                                                                                                              |                                                                                                                                                      | 0 ~ 80°                                                                             |
|                                  | Rotate        | 0° ~ 360°                                                                                                             | 3° ~ 360°                                                                                                                                            | 0° ~ 360°                                                                           |
| Connectors                       | Power         | DC Jack (DC 12V, 1.25A), PoE (IEEE 802.3af)                                                                           |                                                                                                                                                      |                                                                                     |
|                                  | Ethernet      | RJ-45                                                                                                                 |                                                                                                                                                      |                                                                                     |
|                                  | Audio         | 1 in (Audio In Wire); 1 out (Audio Out Wire)<br>*The Audio In port only supports microphones with power supply        | 1 In (built-in or external microphone with power supply)<br>1 Out (Audio Out Wire)<br>*The Audio In port only support microphones with power supply. | 1 In (built-in or external microphone with power supply) 1 Out (Audio Out Wire)     |
|                                  | Digital I/O   | 4-pin terminal block pitch 3.5 mm (0.14")                                                                             | I/O wires                                                                                                                                            | 4-pin terminal block pitch 3.5 mm (0.14")                                           |
|                                  | Local Storage | Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.                           |                                                                                                                                                      |                                                                                     |
| General                          |               |                                                                                                                       |                                                                                                                                                      |                                                                                     |
| Operating Temperature            |               | -30 ~ 60°C (-22 ~ 140°F)                                                                                              |                                                                                                                                                      |                                                                                     |
| Humidity                         |               | 0 ~ 95% (no condensation)                                                                                             |                                                                                                                                                      |                                                                                     |
| Power Source                     |               | 12V DC / PoE (IEEE802.3af)                                                                                            |                                                                                                                                                      |                                                                                     |
| Max. Power Consumption           |               | 4.5 W                                                                                                                 | 6 W                                                                                                                                                  | 7.0 W                                                                               |
| Regulatory                       |               | FCC, CE, RoHS compliant                                                                                               |                                                                                                                                                      |                                                                                     |
| Dimensions                       |               | Ø 108.7 x 81.1 mm (Ø 4.3" x 3.2")                                                                                     | Ø 109 x 83 mm (Ø 4.3" x 3.3")                                                                                                                        | Ø 148 x 111 mm (Ø 5.8 x 4.4")                                                       |
| Weight                           |               | 0.42 kg (0.93 lb)                                                                                                     | 0.43 kg (0.95 lb)                                                                                                                                    | 0.92 kg (2.03 lb)                                                                   |
| Ingress Protection               |               | IP67                                                                                                                  |                                                                                                                                                      |                                                                                     |
| Vandal Resistance                |               | IK10 for metal casing                                                                                                 |                                                                                                                                                      |                                                                                     |

- Note:**
- The signal range and data throughput may vary depending on the network conditions and environmental factors.
  - Specifications are subject to change without notice.



## AI Deep Learning IP Camera (Part 3)

|                                  |               | GV-TBL8804                                                                                                            | GV-TBL8810                                                                                                       | GV-TVD8810                                                                          | GV-PTZ5810-IR                                                                                          |
|----------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                                  |               |                                      |                                 |  |                     |
| Camera                           |               |                                                                                                                       |                                                                                                                  |                                                                                     |                                                                                                        |
| Image Sensor                     |               | 1/2.7" progressive scan super low lux CMOS                                                                            | 1/2.8" progressive scan super low lux CMOS                                                                       | 1/2.8" progressive scan super low lux CMOS                                          | 1/2.7" progressive scan CMOS sensor                                                                    |
| Picture Elements                 |               | 3840 (H) x 2160 (V)                                                                                                   |                                                                                                                  |                                                                                     | 2880 (H) x 1620 (V)                                                                                    |
| Minimum Illumination             | Color         | 0.01 Lux (F2.0, AGC ON)                                                                                               | 0.003 Lux (F1.6, AGC ON)                                                                                         | 0.003 Lux (F1.6, AGC ON)                                                            | 0.003 Lux (F1.2, AGC ON)                                                                               |
|                                  | IR ON         | 0 Lux                                                                                                                 |                                                                                                                  |                                                                                     |                                                                                                        |
| Shutter Speed                    |               | Auto / Manual (1/12 ~ 1/100000 sec)                                                                                   |                                                                                                                  | Auto / Manual (1 ~ 1/100000 sec)                                                    |                                                                                                        |
| White Balance                    |               | Auto / Manual                                                                                                         |                                                                                                                  |                                                                                     |                                                                                                        |
| Gain Control                     |               | Auto / Manual                                                                                                         |                                                                                                                  |                                                                                     |                                                                                                        |
| S/N Ratio                        |               | 56 dB                                                                                                                 |                                                                                                                  |                                                                                     |                                                                                                        |
| WDR                              |               | WDR Pro                                                                                                               |                                                                                                                  |                                                                                     |                                                                                                        |
| Dynamic Range                    |               | Up to 120 dB                                                                                                          |                                                                                                                  |                                                                                     |                                                                                                        |
| Operation                        |               |                                                                                                                       |                                                                                                                  |                                                                                     |                                                                                                        |
| Video Compression                |               | H.265, H.264, MJPEG                                                                                                   |                                                                                                                  |                                                                                     |                                                                                                        |
| Video Streaming                  |               | Triple streams                                                                                                        |                                                                                                                  |                                                                                     |                                                                                                        |
| Frame Rate                       |               | 20 fps at 3840 x2160, 30 fps at 3072 x 1728 / 2560 x 1440 / 1920 x 1080 (60 / 50 Hz)                                  |                                                                                                                  |                                                                                     | 30 fps at 2880 x 1620, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296,30 fps at 1920 x 1080 (60 / 50 Hz) |
|                                  |               | *The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes). |                                                                                                                  |                                                                                     |                                                                                                        |
| Audio Compression                |               | G.711                                                                                                                 |                                                                                                                  |                                                                                     |                                                                                                        |
| Audio Support                    |               | Two-way Audio (built-in microphone and speaker)                                                                       | Two-way Audio (external microphone and speaker required)                                                         | Two-way Audio (external speaker required)                                           | Two-way Audio (built-in microphone and speaker)                                                        |
| Sensor Input                     |               | N/A                                                                                                                   | 1 Input, dry contact, NO / NC                                                                                    |                                                                                     | 1 Input, NO / NC                                                                                       |
| Alarm Output                     |               | N/A                                                                                                                   | 1 Relay Output (1A 30V DC / 0.3A 125V AC)                                                                        |                                                                                     | 1 Relay Output (0.5A 125V AC / 1A 30V DC)                                                              |
| Optical Lens                     |               |                                                                                                                       |                                                                                                                  |                                                                                     |                                                                                                        |
| Day/Night                        |               | Yes (with removable IR-cut filter)                                                                                    |                                                                                                                  |                                                                                     |                                                                                                        |
| Lens Type                        |               | Fixed                                                                                                                 | Motorized varifocal                                                                                              |                                                                                     |                                                                                                        |
| Focal Length                     |               | 4 mm                                                                                                                  | 2.8 ~ 12 mm                                                                                                      | 2.8 ~ 12 mm                                                                         | 2.7 ~ 13.5 mm                                                                                          |
| Maximum Aperture                 |               | F/2.0                                                                                                                 | F/1.6                                                                                                            | F/1.6                                                                               | F/1.2                                                                                                  |
| Mount                            |               | M12                                                                                                                   | Ø 14 mm                                                                                                          | Ø 14 mm                                                                             | N/A                                                                                                    |
| Horizontal FOV                   |               | 86°                                                                                                                   | 31° ~ 96°                                                                                                        | 34° ~ 106°                                                                          | 30.6° ~ 106.9°                                                                                         |
| Operation                        | Focus         | Fixed                                                                                                                 | Auto / Manual                                                                                                    |                                                                                     |                                                                                                        |
|                                  | Zoom          |                                                                                                                       | 4.3x optical zoom                                                                                                | 4.3x optical zoom                                                                   | 5x optical zoom                                                                                        |
|                                  | Iris          |                                                                                                                       | Fixed                                                                                                            | Fixed                                                                               | Fixed                                                                                                  |
| IR LED Quantity                  |               | 1 IR LED                                                                                                              | 3 IR LEDs                                                                                                        | 2 IR LEDs                                                                           | 2 IR LEDs                                                                                              |
| Max. IR Distance                 |               | 30 m (100 ft)                                                                                                         | 50 m (165 ft)                                                                                                    | 40 m (130 ft)                                                                       | 30 m (100 ft)                                                                                          |
| White LED Quantity               |               | 2 Warm LEDs                                                                                                           | N/A                                                                                                              | N/A                                                                                 | N/A                                                                                                    |
| Max. White Light Distance        |               | 20 m (65 ft)                                                                                                          | N/A                                                                                                              | N/A                                                                                 | N/A                                                                                                    |
| Video Resolution                 |               |                                                                                                                       |                                                                                                                  |                                                                                     |                                                                                                        |
| Main Stream                      |               | 3840 x 2160 (Default), 3072 x 1728, 2560 x 1440, 1920 x 1080                                                          |                                                                                                                  |                                                                                     | 2880 x 1620 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 720 x 576, 640 x 360         |
| Sub Stream                       |               | 1920 x 1080, 1280 x 720, 720 x 576, 704 x 288, 640 x 360 (Default), 352 x 288                                         |                                                                                                                  |                                                                                     | 1280 x 720, 720 x 576, 640 x 480, 640 x 360 (Default)                                                  |
| Third Stream (Closed by Default) |               | 720 x 576, 704 x 288, 640 x 360, 352 x 288                                                                            |                                                                                                                  |                                                                                     | 720 x 576, 704 x 288, 640 x 360, 352 x 288                                                             |
| Network                          |               |                                                                                                                       |                                                                                                                  |                                                                                     |                                                                                                        |
| Interface                        |               | 10/100 Ethernet                                                                                                       |                                                                                                                  |                                                                                     |                                                                                                        |
| Mechanical                       |               |                                                                                                                       |                                                                                                                  |                                                                                     |                                                                                                        |
| Camera Angle Adjustment          | Pan           | 0 ~ 360°                                                                                                              |                                                                                                                  |                                                                                     | 0 ~ 350°                                                                                               |
|                                  | Tilt          | 0 ~ 90°                                                                                                               | 0 ~ 120°                                                                                                         | 0 ~ 68°                                                                             | 0 ~ 90°                                                                                                |
|                                  | Rotate        | 0 ~ 360°                                                                                                              |                                                                                                                  |                                                                                     | N/A                                                                                                    |
| Connectors                       | Power         | DC Jack, PoE                                                                                                          |                                                                                                                  |                                                                                     |                                                                                                        |
|                                  | Ethernet      | RJ-45                                                                                                                 |                                                                                                                  |                                                                                     |                                                                                                        |
|                                  | Audio         | Two-way (built-in microphone and speaker)                                                                             | 1 In (Audio In Wire)<br>1 Out (Audio Out Wire)<br>*The Audio In port only supports microphones with power supply | 1 In (built-in or external microphone with power supply)<br>1 Out (Audio Out Wire)  | Two-way audio (built-in microphone and speaker)                                                        |
|                                  | Digital I/O   | N/A                                                                                                                   | 4-pin terminal block pitch 3.5 mm (0.14")                                                                        |                                                                                     | I/O wires                                                                                              |
|                                  | Local Storage | Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.                           |                                                                                                                  |                                                                                     |                                                                                                        |
| General                          |               |                                                                                                                       |                                                                                                                  |                                                                                     |                                                                                                        |
| Operating Temperature            |               | -30 ~ 60°C (-22 ~ 140°F)                                                                                              |                                                                                                                  |                                                                                     | -10°C ~ 50°C (14°F ~ 122°F)                                                                            |
| Humidity                         |               | 0 ~ 95% (no condensation)                                                                                             |                                                                                                                  |                                                                                     |                                                                                                        |
| Power Source                     |               | 12V DC / PoE (IEEE802.3af)                                                                                            |                                                                                                                  |                                                                                     | 12V DC / PoE+ (IEEE 802.3at)                                                                           |
| Max. Power Consumption           |               | 10.5 W                                                                                                                | 9.5 W                                                                                                            | 5.5 W                                                                               | 15 W                                                                                                   |
| Regulatory                       |               | FCC, CE, RoHS compliant                                                                                               |                                                                                                                  |                                                                                     |                                                                                                        |
| Dimensions                       |               | 191 × 75 × 74 mm (7.5" × 3.0" × 2.9")                                                                                 | 244 × 96 ×74 mm (9.6" × 3.8" × 2.9")                                                                             | Ø 148 x 111 mm (Ø 5.8 x 4.4")                                                       | Ø129 x 143.6 mm (Ø5.1" x 5.7")                                                                         |
| Weight                           |               | 0.41 kg (0.99 lb)                                                                                                     | 1.0 kg (2.2 lb)                                                                                                  | 0.45 kg (0.99 lb)                                                                   | 0.75 kg (1.65 lb)                                                                                      |
| Ingress Protection               |               | IP67                                                                                                                  |                                                                                                                  |                                                                                     | N/A                                                                                                    |
| Vandal Resistance                |               | N/A                                                                                                                   | IK10 for metal casing                                                                                            | IK10 for metal casing                                                               | N/A                                                                                                    |

**Note:**  
1. The signal range and data throughput may vary depending on the network conditions and environmental factors.



## AI Deep Learning IP Camera (Part 4)

|                                  |               | GV-EBD8800                                                                                  | GV-EBD8813                                                                          |
|----------------------------------|---------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                  |               |            |  |
| Camera                           |               |                                                                                             |                                                                                     |
| Image Sensor                     |               | 1/2.7" progressive scan super low lux CMOS                                                  | 1/2.8" progressive scan super low lux CMOS                                          |
| Picture Elements                 |               | 3840 (H) x 2160 (V)                                                                         |                                                                                     |
| Minimum Illumination             | Color         | 0.01 Lux (F2.0, AGC ON)                                                                     | 0.003 Lux (F1.5, AGC ON)                                                            |
|                                  | B/W           | N/A                                                                                         |                                                                                     |
|                                  | IR ON         | 0 Lux                                                                                       |                                                                                     |
| Shutter Speed                    |               | Auto / Manual (1 ~ 1/100000 sec)                                                            |                                                                                     |
| White Balance                    |               | Automatic, Manual                                                                           |                                                                                     |
| Gain Control                     |               | Automatic, Manual                                                                           |                                                                                     |
| S/N Ratio                        |               | 56 dB                                                                                       |                                                                                     |
| WDR                              |               | WDR Pro                                                                                     |                                                                                     |
| Dynamic Range                    |               | 120 dB                                                                                      |                                                                                     |
| Operation                        |               |                                                                                             |                                                                                     |
| Video Compression                |               | H.265, H.264, MJPEG                                                                         |                                                                                     |
| Video Streaming                  |               | Triple streams                                                                              |                                                                                     |
| Frame Rate                       |               | 20 fps at 3840 x 2160, 30 fps at 3072 x 1728 / 2560 x 1440 / 1920 x 1080 (60 / 50 Hz)       |                                                                                     |
| Audio Compression                |               | G.711                                                                                       |                                                                                     |
| Audio Support                    |               | One-way Audio                                                                               | One-way Audio                                                                       |
| Sensor Input                     |               | N/A                                                                                         |                                                                                     |
| Alarm Output                     |               | N/A                                                                                         |                                                                                     |
| Optical Lens                     |               |                                                                                             |                                                                                     |
| Day/Night                        |               | Yes (with removable IR-cut filter)                                                          |                                                                                     |
| Lens Type                        |               | Fixed                                                                                       | Motorized varifocal                                                                 |
| Focal Length                     |               | 2.8 mm                                                                                      | 2.8 ~ 12 mm                                                                         |
| Maximum Aperture                 |               | F/2.0                                                                                       | F/1.6                                                                               |
| Mount                            |               | M12                                                                                         | Ø 12 mm                                                                             |
| Horizontal FOV                   |               | 112°                                                                                        | 107° ~ 29°                                                                          |
| Operation                        | Focus         | Fixed                                                                                       | Auto / Manual                                                                       |
|                                  | Zoom          |                                                                                             | 4.3x optical zoom                                                                   |
|                                  | Iris          |                                                                                             | Fixed                                                                               |
| IR LED Quantity                  |               | 1 IR LED                                                                                    | 2 IR LEDs                                                                           |
| Max. IR Distance                 |               | 30 m (100 ft)                                                                               | 40 m (130 ft)                                                                       |
| Video Resolution                 |               |                                                                                             |                                                                                     |
| Main Stream                      |               | 3840 x 2160 (Default), 3072 x 1728, 2560 x 1440, 1920 x 1080                                |                                                                                     |
| Sub Stream                       |               | 1920 x 1080, 1280 x 720, 720 x 576, 704 x 288, 640 x 360 (Default), 352 x 288               |                                                                                     |
| Third Stream (Closed by Default) |               | 720 x 576, 704 x 288, 640 x 360, 352 x 288                                                  |                                                                                     |
| Network                          |               |                                                                                             |                                                                                     |
| Interface                        |               | 10/100 Ethernet                                                                             |                                                                                     |
| Mechanical                       |               |                                                                                             |                                                                                     |
| Camera Angle Adjustment          | Pan           | 0° ~ 360°                                                                                   |                                                                                     |
|                                  | Tilt          | 0 ~ 90°                                                                                     | 0 ~ 75°                                                                             |
|                                  | Rotate        | 0° ~ 360°                                                                                   |                                                                                     |
| Connectors                       | Power         | DC Jack, PoE                                                                                |                                                                                     |
|                                  | Ethernet      | RJ-45                                                                                       |                                                                                     |
|                                  | Audio         | 1 In (built-in microphone)                                                                  | 1 In (built-in microphone)                                                          |
|                                  | Digital I/O   | N/A                                                                                         | N/A                                                                                 |
|                                  | Local Storage | Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported. |                                                                                     |
| General                          |               |                                                                                             |                                                                                     |
| Operating Temperature            |               | -30 ~ 60°C (-22 ~ 140°F)                                                                    |                                                                                     |
| Humidity                         |               | 0 ~ 95% (no condensation)                                                                   |                                                                                     |
| Power Source                     |               | 12V DC / PoE (IEEE802.3af)                                                                  |                                                                                     |
| Max. Power Consumption           |               | 6.4 W                                                                                       | 8.16 W                                                                              |
| Regulatory                       |               | FCC, CE, RoHS compliant                                                                     |                                                                                     |
| Dimensions                       |               | Ø 126 x 94 mm (Ø5.0 x 3.7")                                                                 | Ø 129 x 110 mm (Ø 5.1" x 4.3")                                                      |
| Weight                           |               | 0.45 kg (0.99 lb)                                                                           | 0.67 kg (1.48 lb)                                                                   |
| Ingress Protection               |               | IP67                                                                                        |                                                                                     |
| Vandal Resistance                |               | N/A                                                                                         | IK10 for metal casing                                                               |

- Note:**
- The signal range and data throughput may vary depending on the network conditions and environmental factors.
  - Specifications are subject to change without notice.