Contents

Box Camera Specifications 2
IR Arctic Box Camera Specifications 3
Bullet Camera Specifications 4
Vandal Proof Dome Specifications 6
Motorized IR IP Dome Specifications 7
Mini Fixed Dome Specifications (Part 1) 8
Mini Fixed Dome Specifications (Part 2) 9
Target Series Specifications (Part 1) 10
Target Series Specifications (Part 2) 11
Target Series Specifications (Part 3) 12
Target Series Specifications (Part 4) 13
Target Series Specifications (Part 5) 14
Target Series Specifications (Part 6) 15
Target Series Specifications (Part 7) 16
Target Series Specifications (Part 8) 17
Target Series Specifications (Part 9) 18
Target Series Specifications (Part 12) 21
Target Series Specifications (Part 13) 22
Target Series Specifications (Part 14) 23
Target Series Specifications (Part 15) 24
Fisheye Camera Specifications (Part 1) 25
Fisheye Camera Specifications (Part 2) 26
IP Speed Dome Camera Specifications (Part 1) 27
IP Speed Dome Camera Specifications (Part 2) 28
IP Speed Dome Camera Specifications (Part 3) 29
Pinhole Camera Specifications 30
Panoramic PTZ IP Camera 31
Thermal IP Camera 32
Virtual Reality IP Camera 33
Face Recognition IP Camera 34
Face Detection IP Camera 35
Surround Video IP Camera 36
AI Deep Learning IP Camera (Part 1) 37
AI Deep Learning IP Camera (Part 2) 38
AI Deep Learning IP Camera (Part3) 39
AI Deep Learning IP Camera (Part 4) 40
AI Deep Learning IP Camera (Part 5) 41
AI Deep Learning IP Camera (Part 6-Termal IP Camera) 42

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, 24 fps at 2560 x 1440, 30 fps at 2048 x 1520		30 fps at 2592 x 1944		30 fps at 3840 x 2160	15 fps at 4000 x 3000 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) *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:

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. 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
		
Camera		
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
Operation		
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
Optical Lens		
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)
Mechanical		
Camera Angle Adjustment	**Pan**	0° ~ 330°
	Tilt	0° ~ 90°
	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
General		
Environment Temperature	**Start-up**	-30 °C ~ 50 °C (-22°F ~ 122°F)
	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) (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: 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) * UHS-II card type is not supported.			
General					
Environment Temperature	**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)
	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: 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, 24 fps at 2560 x 1440, 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) *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	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. 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, 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		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) *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:

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. 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) *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: 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 60 Hz: 30 fps at 1920 x 1080		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 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) *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: 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
		
Camera		
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
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 1920 x 1080
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		2.8 mm
Maximum Aperture		F/2.0
Mount		M12
Image Format		1/3”
Horizontal FOV		95°
Operation	**Focus / Zoom / Iris**	Fixed
Mechanical		
Camera Angle Adjustment	**Pan**	3° ~ 360°
	Tilt	0° ~ 68°
	Rotate	3° ~ 360°
Temperature Detector		No
Pigtail-Free		Yes
Connectors	**Power**	2-pin terminal block (DC 12V, 1.25 A), PoE
	Ethernet	RJ-45 connector
	Audio	1 in (built-in microphone) 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)
General		
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: 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	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	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°	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) *UHS-II card type is not supported.		
LED Indicator		4 LEDs: Link, ACT, Power, Status	2 LEDs: Power, Status		
General					
Environment Temperature	**Startup**	-20°C ~ 50°C (-4°F ~ 122°F)			-20°C ~ 50°C (-4°F ~ 122°F)
	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 (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 (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: 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: 4 mm / 6 mm	0F / 1F: 4 mm / 6 mm		4 mm	2.8 ~ 12 mm
Maximum Aperture		0F / 1F: F/1.8	0F / 1F: F/2.0		F/2.0	F/1.6
Mount		M12	M12	M12	M12	Ø14 mm
Image Format		0F / 1F: 1/2.7”	0F / 1F: 1/2.7”		1/2.7”	1/2.8”
Horizontal FOV		0F: 90° 1F: 55°	0F: 86° 1F: 55°		91.2°	92 ° ~ 34°
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) 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)	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)
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
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”)	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
Vandal Resistance		N/A	N/A		N/A	IK10 for metal casing

Note: 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)	0.01 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 ~ 1/100000 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 25 fps at 2560 x 1440 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)	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)
Max. Power Consumption		5.5 W		4 W		6 W	7 W
Regulatory		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”)	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)	1 kg (2.2 lb)
Ingress Protection		IP66		IP67		IP67	IP67
Vandal Resistance		N/A		N/A		N/A	IK10 for metal casing

Note: 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 25 fps at 2560 x 1440 30 fps at 2048 x 1520		30 fps at 2688 x 1520 30 fps at 2560 x 1440 30 fps at 2304 x1296		20 fps at 3840 x 2160 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: 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 24 fps at 2560 x 1440 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 Adjustment	**Pan**	-45° ~ 45°			
	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) *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: 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 24 fps at 2560 x 1440 30 fps at 2048 x 1520		30 fps at 1920 x 1080	
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	96°	GV-EDR2700-0F	100°
		GV-EDR4700-2F	72°	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) *UHS-II/SDXC card type is not supported.	
LED Indicator		4 LEDs: Link, ACT, Power, Status			
General					
Environment Temperature	**Start-up**	-20°C ~ 50°C (-4°F ~122°F)		-20°C ~ 60°C (-4°F ~140°F)	
	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: 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 1F: 4.0 mm		0F: 2.8 mm 1F: 4.0 mm	2F: 2.8 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° 1F: 83°		0F: 111° 1F: 81°	2F: 113° 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: 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					0 Lux
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 25 fps at 2560 x 1440 30 fps at 2048 x 1520		20 fps at 2592 x 1520		30 fps at 2688 x 1520 30 fps at 2560 x 1440 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)				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 1F: 3.6 mm	2.8 mm	0F: 2.8 mm 1F: 4.0 mm		2F: 2.8 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° 1F: 78°	101°	0F: 101° 1F: 76°		2F: 95° 4F: 82°	2F: 101° 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: 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: 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 25 fps at 2560 x 1440 30 fps at 2048 x 1520	30 fps at 2688 x 1520 30 fps at 2560 x 1440 30 fps at 1920 x 1080	30 fps at 2688 x 1520 30 fps at 2560 x 1440 30 fps at 2304 x 1296	20 fps at 2592 x 1520 25 fps at 2560 x 1440 30 fps at 2048 x 1520	30 fps at 2688 x 1520 30 fps at 2560 x 1440 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) *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.	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	N/A	N/A
Temperature Detector						
General						
Environment Temperature	**Start-up** / **Operation**	-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)
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 compliant	CE, FCC, RoHS compliant	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 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: 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 30 fps at 2944 x 1656 / 2592 x 1944 / 2560 x 1440	20 fps at 3840 x 2160 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**	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)	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		N/A	N/A
Temperature Detector			
General			
Environment Temperature	**Start-up**	-35°C ~ 60°C (-31°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)
	Operation		
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: 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 Temperature	**Start-up Operation**	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		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:

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. 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 Temperature	**Start-up**	-20 °C ~ 50 °C (-4 °F ~ 122 °F)		
	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:

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. 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						
Pigtail-Free		No		Yes	No			
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 Operation**	-40°C ~ 60°C (-40°F ~ 140°F)		-35~ 60°C (-31 ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)			
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:

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 640x480.
2. 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)
			
Camera			
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	
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		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)	
Optical Lens			
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)	
Mechanical			
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) *UHS-II card type is not supported.	
LED Indicator		2 LEDs: Power / Status	4 LEDs: Power / Status / WiFi Power / WiFi Status
General			
Environment Temperature	**Start-Up**	-20°C ~ 50°C (-4°F ~ 122°F)	
	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: 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 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) 1 Out (3.5 mm stereo jack)	1 In (built-in or external microphone) 1 Out (3.5 mm stereo jack)	1 In (built-in or external microphone with power supply) 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 Temperature	**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)
	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: 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 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) 1 Out (3.5 mm stereo jack)	1 In (external microphone with power supply) 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 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 802.3at)	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: 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 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 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) *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: 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 (F1.6, 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 at 1920 x 1080	30 fps at 2048 x 1536 60 fps at 1920 x 1080	30 fps at 2688 x 1520 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 Max Presets Allowed	N/A			
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) *UHS-I/UHS-II card types are not supported		Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *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:

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. 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		
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. AC 24V, 13.55W Max.	DC 30V, 43.87W Max. AC 24V, 44W Max.	DC 30V, 23.01W Max. 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. 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)
			
Camera			
Image Sensor		1/2.8" progressive scan super low lux CMOS	1/2.8" progressive scan super low lux CMOS
Picture Elements		1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Minimum Illumination	**Color**	0.02 Lux	0.02 Lux
	B/W		
Shutter Speed		Automatic, Manual (1/5 ~ 1/8000 sec)	Automatic, Manual (1/5 ~ 1/8000 sec)
White Balance		Automatic, Manual (2800K ~ 8500K)	Auto, Manual (2800K ~ 8500K)
Gain Control		Automatic	Automatic
S/N Ratio		52 dB	52 dB
WDR		Yes	N/A
Dynamic Range		Up to 72 dB	Up to 72 dB
Operation			
Video Compression		H.264, MJPEG	H.264, MJPEG
Video Streaming		Dual streams from H.264 or MJPEG	Dual streams from H.264 or MJPEG
Frame Rate		30 fps at 1920 x 1080	30 fps at 1920 x 1080
Audio Compression		AAC 32K * This audio codec is for custom procurement; consult our sales representatives before purchasing.	
Audio Support		One-way Audio	One-way Audio
Sensor Input		N/A	N/A
Alarm Output		N/A	N/A
Optical Lens			
Day/Night		Yes (Electronic)	Yes (with removable IR-cut filter)
Iris		Fixed	Fixed
Focal Length		3.7 mm	1.19 mm
Maximum Aperture		F/2.8	F/2.0
Mount		M12	M12
Image Format		1/2.7''	1/2.3"
Horizontal FOV		84°	180°
Operation	**Focus**	Fixed	Fixed
	Zoom	Fixed	Fixed
	Iris	Fixed	Fixed
Mechanical			
Temperature Detector		Yes	Yes
Connectors	**Power**	PoE (IEEE 802.3af)	PoE (IEEE 802.3af)
	Ethernet	RJ-45 connecter	RJ-45 connecter
	Audio	1 In (built-in microphone)	1 In (built-in microphone)
	Local Storage	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.
	Camera Unit Connect	RJ-12	RJ-12
LED Indicator		4 LEDs: Link, ACT, Camera Status, RJ-12 Status	4 LEDs: Link, ACT, Camera Status, RJ-12 Status
General			
Environment Temperature		-5 °C ~50 °C (23 °F ~ 122 °F)	-5 °C ~50 °C (23 °F ~ 122 °F)
Humidity		10% to 90% (no condensation)	10% to 90% (no condensation)
Power Source		PoE (IEEE 802.3af)	PoE (IEEE 802.3af)
Max. Power Consumption		4.8 W	7.7 W
Regulatory		CE, FCC, RCM, RoHS compliant	CE, FCC, RCM, RoHS compliant
Dimensions	**Main Base**	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
	Pinhole Unit	Ø 59.93 x 50.14 mm (2.36" x 1.97")	Ø 80.35 x 115.12 mm
Weight (with rack)		210 g (0.46 lb)	480 g (1.06 lb)

Note: 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 **SD:** 1/2.86" progressive scan CMOS	**FE:** 1/1.7" progressive scan CMOS **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) **SD:** Automatic, Manual (1/6 ~ 1/60000 sec)	**FE:** Automatic, Manual (1/25 ~ 1/16000 sec.) **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 **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) **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); **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) * UHS-I/SDXC card type is not supported.	**FE:** Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) **SD:** SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * 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: 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 (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 (4 pixels on target)	**Human (1.8 x 0.5 m)**	480 m (1575 ft)
Recognition (6 pixels on target)	**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: 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 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 * 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 Temperature	**Start-up**	-20°C ~ 50°C (-4°F ~ 122°F)
	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 Temperature	**Startup**	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	
	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: 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 super low lux CMOS		1/3" progressive scan super low lux CMOS	1/2" 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	0.04 Lux
	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 24 fps at 2560 x 1440 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)		320 g (0.7 lb)	500 g (1.10 lb)

Note:

1. 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.
2. 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 *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:

1. The signal range and data throughput may vary depending on the network conditions and environmental factors.
2. 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			
Frame Rate		30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296		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) *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 compliant			
Dimensions		Ø 129 x 110 mm (Ø 5.1" x 4.3")	244 × 96 ×74 mm (9.6" × 3.8" × 2.9")	246 × 86 × 85 mm (9.7" × 3.4" × 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:

1. The signal range and data throughput may vary depending on the network conditions and environmental factors.
2. Specifications are subject to change without notice.

AI Deep Learning IP Camera (Part 2)

		GV-TDR4803	GV-TDR8805	GV-TFD4800	GV-TVD4810
					
Camera					
Image Sensor		1/3" progressive scan super low lux CMOS	1/2.7" progressive scan 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)	2688 (H) x 1520 (V)
Minimum Illumination	**Color**	0.003 Lux (F1.6, AGC ON)	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		52 dB	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	20 fps at 3840 x 2160, 30 fps at 3072 x 1728, 30 fps at 2560 x 1440, 30 fps at 1920 x 1080	30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296, 30 fps at 1920x 1080	30 fps at 2688 x 1520, 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		Two-way Audio (external microphone and speaker required)	Two-way Audio (external 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	2.8 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°	101.1°	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	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, 640 x 480, 640 x 360 (Default)	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	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° ~ 348°	0° ~ 360°
	Tilt	0° ~ 68°		-66° ~ 66°	0 ~ 80°
	Rotate	0° ~ 360°	3° ~ 360°	0° ~ 346°	0° ~ 360°
Connectors	**Power**	DC Jack (DC 12V, 1.25A), PoE (IEEE 802.3af)		Terminal block (DC 12 V, 1.25 A), PoE (IEEE 802.3af)	DC Jack (DC 12V, 1.25A), PoE (IEEE 802.3af)
	Ethernet	RJ-45			
	Audio	1 in (Audio In Wire); 1 out (Audio Out Wire) *The Audio In port only supports microphones with power supply	1 In (built-in or external microphone with power supply) 1 Out (Audio Out Wire) *The Audio In port only support microphones with power supply.	1 In (built-in microphone or terminal block), 1 out (terminal block)	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	Terminal block	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)		-30 ~ 55°C (-22 ~ 131°F)	-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	4.5 W	7.0 W
Regulatory		FCC, CE, RoHS compliant		CE, FCC, LVD, RoHS compliant	FCC, CE, RoHS compliant
Dimensions		Ø 108.7 x 81.1 mm (Ø4.3" x 3.2")	Ø 109 x 83 mm (Ø 4.3" x 3.3")	Ø 109 x 62 mm (Ø 4.3" x 2.4")	Ø 148 x 111 mm (Ø 5.8 x 4.4")
Weight		0.42 kg (0.93 lb)	0.43 kg (0.95 lb)	0.22 kg (0.49 lb)	0.92 kg (2.03 lb)
Ingress Protection		IP67		N/A	IP67
Vandal Resistance		IK10 for metal casing		N/A	IK10 for metal casing

Note:

1. The signal range and data throughput may vary depending on the network conditions and environmental factors.
2. Specifications are subject to change without notice.

AI Deep Learning IP Camera (Part3)

		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			30 fps at 2880 x 1620, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296,30 fps at 1920 x 1080
		*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°	29.2° ~ 107.4°	29.2° ~ 107.4°	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) 1 Out (Audio Out Wire) *The Audio In port only supports microphones with power supply	1 In (built-in or external microphone with power supply) 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.
2. Specifications are subject to change without notice.

AI Deep Learning IP Camera (Part 4)

		GV-EBD8800	GV-EBD8813	GV-PBL8800	GV-PDR8800
					
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 CMOS	1/2.8" progressive scan 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)	0.012 Lux (F2.0, 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		55 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 x2160, 30 fps at 3072 x 1728 / 2560 x 1440 / 1920 x 1080		25 fps at 3840 x 2160, 30 fps at 3456 x 1936 / 3200 x 1800 / 2880 x 1624	
		*The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).			
Audio Compression		G.711			
Audio Support		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	Fixed	
Focal Length		2.8 mm	2.8 ~ 12 mm	1.68 mm	
Maximum Aperture		F/2.0	F/1.6	F/2.0	
Mount		M12	Ø 12 mm	M12	
Horizontal FOV		112°	107° ~ 29°	180°	
Operation	**Focus**	Fixed	Auto / Manual	Fixed	Fixed
	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)	15 m (50 ft)	
Video Resolution					
Main Stream		3840 x 2160 (Default), 3072 x 1728, 2560 x 1440, 1920 x 1080		3840 x 2160 (Default), 3456 x 1936, 3200 x 1800, 2880 x 1624, 2560 x 1440, 1920 x 1080, 1280 x 720	
Sub Stream		1920 x 1080, 1280 x 720, 720 x 576, 704 x 288, 640 x 360 (Default), 352 x 288		704 x 576, 640 x 480, 640 x 360 (Default), 352 x 288, 320 x 240	
Third Stream (Closed by Default)		720 x 576, 704 x 288, 640 x 360, 352 x 288		1280 x 720, 704 x 576, 640 x 480 (Default), 640 x 360, 352 x 288, 320 x 240	
Network					
Interface		10/100 Ethernet			
Mechanical					
Camera Angle Adjustment	**Pan**	0° ~ 360°		0° ~ 360°	0° ~ 180°
	Tilt	0 ~ 90°	0 ~ 75°	5° ~ 90°	0° ~ 180°
	Rotate	0° ~ 360°		0° ~ 360°	N/A
Connectors	**Power**	DC Jack, PoE		2-pin terminal block, PoE	DC Jack, PoE
	Ethernet	RJ-45			
	Audio	1 In (built-in microphone)			
	Digital I/O	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)		-40°C ~ 60°C (-40°F ~ 140°F)	
Humidity		0 ~ 95% (no condensation)		0 ~ 90% (no condensation)	
Power Source		12V DC / PoE (IEEE802.3af)			
Max. Power Consumption		6.4 W	8.16 W	9 W	
Regulatory		FCC, CE, RoHS compliant		CE, FCC compliant	
Dimensions		Ø 126 x 94 mm (Ø5.0 x 3.7")	Ø 129 x 110 mm (Ø 5.1" x 4.3")	97 x 74 x 168.5 mm (3.82 x 2.91 x 6.63")	Ø 127.2 x 107 mm (Ø 5 x 4.2")
Weight		0.45 kg (0.99 lb)	0.67 kg (1.48 lb)	0.63 kg (1.39 lb)	0.85 kg (1.87 lb)
Ingress Protection		IP67			
Vandal Resistance		N/A	IK10 for metal casing		

Note:

1. The signal range and data throughput may vary depending on the network conditions and environmental factors.
2. Specifications are subject to change without notice.

AI Deep Learning IP Camera (Part 5)

		GV-BX2802	GV-BX4802
			
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**	0.0028 Lux (F1.2, AGC ON)	0.0028 Lux (F1.2, AGC ON)
	B/W	0.002 Lux (F1.2, AGC ON)	0.001 Lux (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		52 dB	
WDR		WDR Pro	
Dynamic Range		120 dB	
Day/Night		Yes (with removable IR-cut filter)	
Mount		CS Mount	
Iris		DC Iris	
Operation			
Video Compression		H.265, H.264, MJPEG	
Video Streaming		Triple streams	
Frame Rate		30 fps at 1920 x 1080, 30 fps at 1280 x 720, 30 fps at 704 x 480, 30 fps at 352 x 240, 30 fps at 480 x 240 (60 / 50 Hz) (H.265 / H.265+ / H.264 / H.264+) 20 fps at 1280 x 720, 30 fps at 704 x 480, 30 fps at 352 x 240, 30 fps at 480 x 240 (60 / 50 Hz) (MJPEG)	30 fps at 2592 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296, 30 fps at 1920 x 1080, 30 fps at 1280 x 720, 30 fps at 704 x 480, 30 fps at 352 x 240, 30 fps at 480 x 240 (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 speaker required)	
Sensor Input		2 inputs, dry contact, NO / NC	
Alarm Output		2 relay outputs (1 A 30V DC / 0.3A 125V AC)	
Video Resolution			
Main Stream		1920 x 1080 (Default), 1280 x 720	2592 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720
Sub Stream		1280 x 720 (Default), 704 x 480, 352 × 240	2592 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720
Third Stream		704 x 480, 480 x 240, 352 × 240 (Default)	
Network			
Interface		10/100 Ethernet	
Mechanical			
Camera Angle Adjustment	**Pan**	N/A	
	Tilt	N/A	
	Rotate	N/A	
Connectors	**Power**	2-pin terminal block, PoE	
	Ethernet	RJ-45	
	Audio	1 In (built-in or external microphone), 1 Out (stereo phone jack, 3.5 mm / 0.14’’)	
	Digital I/O	8-pin terminal block pitch 2.54 mm (0.1”)	
	TV-out	BNC connector	
	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, 24V AC / PoE (IEEE802.3af)	
Max. Power Consumption		11 W	
Regulatory		FCC, CE, RoHS compliant	
Dimensions		Ø 160.8 x 79 x 64 mm (6.33 x 3.11 x 2.52”)	Ø 160.8 x 79 x 64 mm (6.33 x 3.11 x 2.52”)
Weight		0.65 kg (1.43 lb)	0.65 kg (1.43 lb)
Ingress Protection		N/A	
Vandal Resistance		N/A	

Note:

1. Users need to purchase camera lens separately for GV-BX2802 / GV-BX4802.
2. The signal range and data throughput may vary depending on the network conditions and environmental factors.
3. Specifications are subject to change without notice.

AI Deep Learning IP Camera (Part 6-Termal IP Camera)

		GV-TMEB5800
		
Camera		
Image Sensor		Vanadium oxide uncooled focal plane detector
Picture Elements		256 (H) x 192 (V) (the resolution of output image is 1280 x 720)
Pixel Size		12 um
Thermal Sensitivity		≤50 mK (@25°C, F#=1.0)
Spectral Range		8 ~ 14 um
Gain Control		Auto, Manual
Operation		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Triple streams
Frame Rate	**Thermal**	17 fps at 1280 x 720, 17 fps at 704 x 480, 17 fps at 352 x 240, 17 fps at 480 x 240
	Optical	30 fps at 2592 x 1944, 30 fps at 2592 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296, 30 fps at 1920 x 1080, 30 fps at 1280 x 720, 30 fps at 704 x 480, 30 fps at 352 x 240, 30 fps at 480 x 240
Image Setting		Brightness, Contrast, Saturation, Sharpness, Flicker-less, 3D Noise Reduction, Image Orientation
Noise Reduction		Yes
Audio Compression		G.711
Audio Support		Two-way Audio
Optical Lens		
Focal Length		3.2 mm
Horizontal FOV		56°
Operation	**Focus**	Fixed
	Zoom	Fixed
	Iris	Fixed
Observation Range		
Detection (1.5 pixels on target)	**Human (0.75 m)**	130 m (435 ft)
	Car (2.3 m)	405 m (1340 ft)
Recognition (6 pixels on target)	**Human (0.75 m)**	33 m (105 ft)
	Car (2.3 m)	100 m (335 ft)
Recognition (12 pixels on target)	**Human (0.75 m)**	17 m (55 ft)
	Car (2.3 m)	50 m (165 ft)
Mechanical		
Camera Angle Adjustment	**Pan**	0° ~ 360°
	Tilt	0° ~ 75°
	Rotate	0° ~ 360°
Connectors	**Power**	DC Jack, PoE
	Ethernet	RJ-45 cable
	Audio	1 In (Audio In Wire) 1 In (built-in microphone) 1 Out (built-in speaker)
	Digital I/O	4-pin terminal block pitch 3.81 mm (0.15")
	Local Storage	Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.
General		
Environment Temperature		-30°C ~ 60 °C (-22 °F ~ 140 °F)
Humidity		0 ~ 95% (no condensation)
Power Source		12V DC / PoE (IEEE 802.3af)
Max. Power Consumption		9 W
Regulatory		CE, FCC, RoHS compliant
Dimensions		Ø111.5 × 99.6 mm (Ø4.39" x 3.92")
Weight		0.68 kg (1.5 lb)

Note: 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).