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



## Box Camera Specifications


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

**Note:**

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






## IR Arctic Box Camera Specifications

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

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





## Bullet Camera Specifications

		GV-BL2702	GV-BL4713	GV-BL8714
				
<b>Camera</b>				
<b>Image Sensor</b>		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
<b>Picture Elements</b>		1920 (H) x 1080 (V)	2592 (H) x 1520 (V)	3840 (H) x 2160 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.005 Lux	0.03 Lux	0.04 Lux
	<b>B/W</b>	0.004 Lux	0.02 Lux	0.03 Lux
	<b>IR ON</b>	0 Lux		
<b>Shutter Speed</b>		Automatic, Manual (1/5 ~ 1/16000 sec)		
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)		
<b>Gain Control</b>		Automatic		
<b>S/N Ratio</b>		56 dB	50 dB	52 dB
<b>WDR Pro (with WDR sensor)</b>		Yes		
<b>Dynamic Range</b>		Up to 130 dB	Up to 120 dB	
<b>Operation</b>				
<b>Video Compression</b>		H.265, H.264, MJPEG		
<b>Video Streaming</b>		Triple streams		
<b>Frame Rate</b>		30 fps at 1920 x 1080	30 fps at 2048 x 1520	30 fps at 3840 x 2160
<b>Audio Compression</b>		G.711		
<b>Audio Support</b>		Two-way Audio (external microphone and speaker required)		
<b>Sensor Input</b>		1 input (Dry Contact)		
<b>Alarm Output</b>		1 digital output (200 mA 5 V DC)		
<b>Optical Lens</b>				
<b>Day/Night</b>		Yes (with removable IR-cut filter)		
<b>Lens Type</b>		Varifocal Lens	Motorized Varifocal Lens	
<b>Focal Length</b>	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		
<b>Maximum Aperture</b>	GV-BL2702-3V	F/1.7	F/1.7	F/1.44
	GV-BL2702-4V	F/1.6		
	GV-BL2702-5V	F/2.0		
<b>Mount</b>		Ø14 mm		
<b>Image Format</b>		1/2.7"		1/2.5"
<b>Horizontal FOV</b>	GV-BL2702-3V	110° ~ 38°	102° ~ 38°	102° ~ 62°
	GV-BL2702-4V	56° ~ 8°		
	GV-BL2702-5V	42° ~ 17°		
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)	Auto Focus	
	<b>Zoom</b>	Manual (w/lock)	4.3X optical zoom	2X optical zoom
	<b>Iris</b>		P-Iris	
<b>IR LED Quantity</b>		5 IR LEDs		
<b>Max. IR Distance</b>		60 m (200 ft)	60 m (200 ft)	40 m (130 ft)
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°		
	<b>Tilt</b>	90° ~ 180°		
	<b>Rotate</b>	0° ~ 360°		
<b>Temperature Detector</b>		Yes		
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE		
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector		
	<b>Audio</b>	1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)		
	<b>Digital I/O</b>	3-pin terminal block, pitch 2.5 mm/0.1"		
	<b>Local Storage</b>	Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported.		
<b>General</b>				
<b>Environment Temperature</b>	<b>Star-up</b>	-20 °C ~ 60 °C (-4 °F ~ 140 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	-20 °C ~ 60 °C (-4 °F ~ 140 °F)
	<b>Operation</b>	-30 °C ~ 60 °C (-22 °F ~ 140 °F)		-30 °C ~ 60 °C (-22 °F ~ 140 °F)
<b>Humidity</b>		10% ~ 90% (no condensation)		
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE802.3af)		12V DC / PoE+ (IEEE 802.3at)
<b>Max. Power Consumption</b>		12.3 W	12.9 W	18 W
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant		
<b>Dimensions</b>		Ø 121.8 x 406 mm (4.79" x 15.98")	Ø 128.64 x 406 mm (5.06" x 15.98")	Ø 292.75 x 95 x 95 mm (11.53" x 3.74" x 3.74")
<b>Weight</b>		2.04 kg (4.50 lb)	2.44 kg (5.38 lb)	1.26 kg (2.77 lb)
<b>Ingress Protection</b>		IP67		
<b>Vandal Resistance</b>		IK10 for metal casing		

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



## Vandal Proof Dome Specifications (Part 1)


		GV-VD2712	GV-VD4712	GV-VD4711	GV-VD5711
					
<b>Camera</b>					
<b>Image Sensor</b>		1/2.8" progressive scan super low lux CMOS		1/3" progressive scan super low lux CMOS	
<b>Picture Elements</b>		1920 (H) x 1080 (V)		2592 (H) x 1520 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.005 Lux		0.03 Lux	
	<b>B/W</b>	0.004 Lux		0.02 Lux	
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/16000 sec)		Auto, Manual (1/5 ~ 1/8000 sec)	
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>		Automatic			
<b>S/N Ratio</b>		56 dB		50 dB	
<b>WDR</b>		WDR Pro		Yes	
<b>Dynamic Range</b>		Up to 130 dB		Up to 120 dB	
<b>Operation</b>					
<b>Video Compression</b>		H.265, H.264, MJPEG			
<b>Video Streaming</b>		Triple streams			
<b>Frame Rate</b>		30 fps at 1920 x 1080		20 fps at 2592 x 1520, 24 fps at 2560 x 1440, 30 fps at 2048 x 1520	
<b>Audio Compression</b>		G.711			
<b>Audio Support</b>		Two-way Audio (external microphone and speaker required)			
<b>Sensor Input</b>		1 Input (Dry Contact)			
<b>Alarm Output</b>		1 Digital output (200mA 5V DC)			
<b>Optical Lens</b>					
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Motorized Varifocal Lens			
<b>Focal Length</b>		2.8 ~ 12 mm		4 ~ 8 mm	
<b>Maximum Aperture</b>		F/1.2		F/1.7	
<b>Mount</b>		Ø14 mm			
<b>Image Format</b>		1/2.7"		1/1.8"	
<b>Horizontal FOV</b>		110° ~ 38°		95° ~ 36°	
<b>Operation</b>	<b>Focus</b>	Auto Focus			
	<b>Zoom</b>	4.3x optical zoom		2x Optical zoom	
	<b>Iris</b>	P-Iris			
<b>IR LED Quantity</b>		4 IR LEDs		6 IR LEDs	
<b>Max. IR Distance</b>		30 m (100 ft)			
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 350°		-90° ~ 90°	
	<b>Tilt</b>	0° ~ 75°		0° ~ 85°	
	<b>Rotate</b>	0° ~ 340°		0° ~ 350°	
<b>3-axis Mechanism</b>		Yes			
<b>Temperature Detector</b>		Yes			
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)			
	<b>Digital I/O</b>	I/O Wires		3-pin terminal block, pitch 2.5 mm/0.1"	
	<b>Local Storage</b>	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.	
<b>TV-Out</b>		BNC connector (640 x 480 resolution)			
<b>LED Indicator</b>		2 LEDs: Power, Status			
<b>General</b>					
<b>Environment Temperature</b>		-20 °C ~ 60 °C (-4 °F ~ 140 °F)		-20 °C ~ 50 °C (-4 °F ~ 122 °F)	
<b>Heat On</b>		N/A			
<b>Fan</b>		N/A			
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)		12V DC / 24V AC / PoE (IEEE 802.3at)	
<b>Max. Power Consumption</b>		8.64 W		8.16 W	
<b>Regulatory</b>		CE, FCC, RCM, LVD, RoHS compliant		CE, FCC, RCM, RoHS compliant	
<b>Dimensions</b>		ø160 x 108.4 mm (6.2" x 4.27")		ø176.5 x 118 mm (6.9" x 4.6")	
<b>Weight</b>		1.15 kg (2.54 lb)		1.83 kg (4.03 lb)	
<b>Ingress Protection</b>		IP67			
<b>Vandal Resistance</b>		IK10 for metal casing		IK10+	

**Note:**

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



## Vandal Proof Dome Specifications


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

**Note:**

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




## Motorized IR IP Dome Specifications

		<b>GV-MD8710</b>
		
<b>Camera</b>		
<b>Image Sensor</b>		1/2" progressive scan super low lux CMOS
<b>Picture Elements</b>		3840 (H) x 2160(V)
<b>Minimum Illumination</b>	<b>Color</b>	0.04 Lux
	<b>B/W</b>	0.03 Lux
	<b>IR ON</b>	0 Lux
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/16000 sec)
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)
<b>Gain Control</b>		Automatic
<b>S/N Ratio</b>		52 dB
<b>WDR Pro (with WDR sensor)</b>		Yes
<b>Dynamic Range</b>		Up to 120 dB
<b>Operation</b>		
<b>Video Compression</b>		H.265, H.264, MJPEG
<b>Video Streaming</b>		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
<b>Frame Rate</b>		30 fps at 3840 x 2160
<b>Audio Compression</b>		G.711
<b>Audio Support</b>		Two-way Audio (external microphone and speaker required)
<b>Sensor Input</b>		1 Input (Dry Contact)
<b>Alarm Output</b>		1 Output (200 mA 5 V DC)
<b>Optical Lens</b>		
<b>Day/Night</b>		Yes (with removable IR-cut filter)
<b>Lens Type</b>		Motorized varifocal lens
<b>Focal Length</b>		4 ~ 8 mm
<b>Maximum Aperture</b>		F/1.44
<b>Mount</b>		Ø14 mm
<b>Image Format</b>		1/2.5"
<b>Horizontal FOV</b>		112° ~ 61°
<b>Operation</b>	<b>Focus</b>	Automatic
	<b>Zoom</b>	2X optional zoom
	<b>Iris</b>	P-Iris
<b>IR LED Quantity</b>		4 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)
<b>Mechanical</b>		
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 350°
	<b>Tilt</b>	0° ~ 75°
	<b>Rotate</b>	0° ~ 340°
<b>3-axis Mechanism</b>		Yes
<b>Temperature Detector</b>		Yes
<b>Connectors</b>	<b>Power</b>	2-pin terminal block (DC 12V, 1.25 A), PoE
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector
	<b>Audio</b>	1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)
	<b>Digital I/O</b>	I/O wires
	<b>Local Storage</b>	Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.
<b>LED Indicator</b>		2 LEDs: Power, Status
<b>General</b>		
<b>Environment Temperature</b>	<b>Start-up</b>	0 °C ~ 50 °C (32 °F ~ 122 °F)
	<b>Operation</b>	
<b>Humidity</b>		10% ~ 90% (no condensation)
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		9.5 W
<b>Regulatory</b>		CE, FCC, LVD, RoHS compliant
<b>Dimensions</b>		Ø125 x 99.5 mm (Ø 4.92" x 3.92")
<b>Weight</b>		500 g (1.10 lb)

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



## Mini Fixed Dome Specifications (Part 1)


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

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








## Mini Fixed Dome Specifications (Part 2)

		GV-TFD4700
		
<b>Camera</b>		
Image Sensor		1/3" progressive scan super low lux CMOS
Picture Elements		2688 (H) x 1520 (V)
Minimum Illumination	Color	0.01 Lux (F2.0, AGC ON)
	B/W	0 Lux
	IR ON	N/A
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)
White Balance		Auto / Manual
Gain Control		Auto / Manual
S/N Ratio		52 dB
WDR Pro (with WDR Sensor)		Yes
Dynamic Range		120 dB
<b>Operation</b>		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Triple streams from H.265, H.264 or MJPEG
Frame Rate		30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 1920 x 1080 (60 / 50 Hz)
Audio Compression		G.711
Audio Support		Two-way Audio (external speaker required)
<b>Optical Lens</b>		
Day/Night		Yes (with removable IR-cut filter)
Lens Type		Fixed
Focal Length		2.8 mm
Maximum Aperture		F/2.0
Mount		M12
Image Format		1/3"
Horizontal FOV		95°
Operation	Focus / Zoom / Iris	Fixed
<b>Mechanical</b>		
Camera Angle Adjustment	Pan	3° ~ 360°
	Tilt	0° ~ 68°
	Rotate	3° ~ 360°
Temperature Detector		No
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)
<b>General</b>		
Environment Temperature		-35°C ~ 60°C (-31°F ~ 140°F)
Humidity		0% ~ 95% (no condensation)
Power Source		12V DC / PoE (IEEE802.3af)
Max. Power Consumption		5.5 W
Regulatory		FCC, CE, RoHS compliant
Dimensions		∅ 108.6 x 61.8mm (∅4.28" x 2.43")
Weight		0.22 kg (0.49 lb)

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






## Target Series Specifications (Part 1)

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

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






## Target Series Specifications (Part 2)

		GV-ABL2701 Series	GV-ABL2703	GV-TBL2703	GV-TBL2705	GV-ABL2702
						
<b>Camera</b>						
<b>Image Sensor</b>		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
<b>Picture Elements</b>		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)
<b>Minimum Illumination</b>	<b>Color</b>	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>B/W</b>	N/A	N/A	N/A	N/A	N/A
	<b>IR ON</b>	0 Lux	0 Lux	0 Lux	0 Lux	0 Lux
<b>Shutter Speed</b>		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)
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>S/N Ratio</b>		52 dB	52 dB	52 dB	52 dB	52 dB
<b>WDR</b>		Yes	Yes	Yes	Yes	WDR Pro
<b>Dynamic Range</b>		Up to 72 dB	Up to 72 dB	Up to 72 dB	Up to 120 dB	Up to 120 dB
<b>Operation</b>						
<b>Video Compression</b>		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
<b>Video Streaming</b>		Triple streams	Triple streams	Triple streams	Dual streams	Triple streams
<b>Frame Rate</b>		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
<b>Audio Compression</b>		N/A	N/A	N/A	G.711	G.711
<b>Audio Support</b>		N/A	N/A	N/A	One-way Audio	Two-way Audio (external microphone and speaker required)
<b>Optical Lens</b>						
<b>Day/Night</b>		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)
<b>Lens Type</b>		Fixed	Fixed	Fixed	Fixed	Varifocal
<b>Focal Length</b>		0F / 1F 4 mm / 6 mm	0F / 1F 4 mm / 6 mm	4 mm / 6 mm	4 mm	2.8 ~ 12 mm
<b>Maximum Aperture</b>		0F / 1F F/1.8	0F / 1F F/1.8	F/2.0	F/2.0	F/1.6
<b>Mount</b>		M12	M12	M12	M12	Ø14 mm
<b>Image Format</b>		0F / 1F 1/2.7"	0F / 1F 1/2.7"	1/2.7"	1/2.7"	1/2.8"
<b>Horizontal FOV</b>		0F 90°	0F 90°	86°	83°	92° ~ 34°
		1F 55°	1F 55°	55°		
<b>Operation</b>	<b>Focus</b>	Fixed		Fixed	Fixed	Manual (with lock)
	<b>Zoom</b>	Fixed		Fixed	Fixed	Manual (with lock)
	<b>Iris</b>	Fixed		Fixed	Fixed	Fixed
<b>IR LED Quantity</b>		1 IR LED	1 IR LED	1 IR LED	1 IR LED	3 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	30 m (100 ft)	30 m (100 ft)	30 m (100 ft)	50 m (165 ft)
<b>Mechanical</b>						
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°
	<b>Tilt</b>	0° ~ 90°	0° ~ 90°	0° ~ 90°	0° ~ 90°	0° ~ 120°
	<b>Rotate</b>	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE
	<b>Ethernet</b>	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
	<b>Audio</b>	N/A	N/A	N/A	1 In (built-in microphone)	1 In (Audio In Wire) 1 Out (Audio Out Wire)
	<b>Digital I/O</b>	N/A	N/A	N/A	N/A	4-pin terminal block, pitch 3.5 mm (0.14")
	<b>Local Storage</b>	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.
	<b>TV Out</b>	N/A	N/A	N/A	N/A	N/A
<b>General</b>						
<b>Environment Temperature</b>	<b>Startup</b>	-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)
	<b>Operation</b>	-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)
<b>Humidity</b>		0% ~ 95% (no condensation)	10% ~ 90% (no condensation)		10% ~ 90% (no condensation)	0% ~ 95% (no condensation)
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)		12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		5 W	4.5 W		6.0 W	9 W
<b>Regulatory</b>		FCC, CE, RoHS compliant	FCC, CE, RoHS compliant		FCC, CE, RoHS compliant	FCC, CE, RoHS compliant
<b>Dimensions (L X W X H)</b>		162.9 x 62.4 x 62.7 mm (6.4" x 2.5" x 2.5")	162.9 x 62.4 x 62.7 mm (6.4" x 2.5" x 2.5")		162 x 69 x 69 mm (6.4" x 2.7" x 2.7")	244 x 96 x 74 mm (9.6" x 3.8" x 2.9")
<b>Weight</b>		0.25 kg (0.55 lb)	0.37 kg (0.81 lb)		0.45 kg (0.99 lb)	0.58 kg (1.28 lb)
<b>Ingress Protection</b>		IP66	IP67		IP67	IP67
<b>Vandal Resistance</b>		N/A	N/A		N/A	IK10 for metal casing

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




## Target Series Specifications (Part 3)

		GV-ABL4701 Series	GV-ABL4703	GV-TBL4703	GV-TBL4705	GV-TBL4700
						
<b>Camera</b>						
<b>Image Sensor</b>		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
<b>Picture Elements</b>		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)
<b>Minimum Illumination</b>	<b>Color</b>	0.03 Lux (F2.0, AGC ON)			0.003 Lux (F1.6, AGC ON)	0.01 Lux (F1.6, AGC ON)
	<b>B/W</b>	N/A			N/A	N/A
	<b>IR ON</b>	0 Lux			0 Lux	0 Lux
<b>Shutter Speed</b>		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)
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>S/N Ratio</b>		52 dB	52 dB	52 dB	56 dB	52 dB
<b>WDR</b>		Yes	Yes	Yes	Yes	Yes
<b>Dynamic Range</b>		Up to 72 dB	Up to 72 dB	Up to 72 dB	Up to 120 dB	Up to 72 dB
<b>Operation</b>						
<b>Video Compression</b>		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
<b>Video Streaming</b>		Triple streams	Triple streams	Triple streams	Dual streams	Triple streams
<b>Frame Rate</b>		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
<b>Audio Compression</b>		N/A	N/A	N/A	N/A	N/A
<b>Audio Support</b>		N/A	N/A	N/A	N/A	N/A
<b>Optical Lens</b>						
<b>Day/Night</b>		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)
<b>Lens Type</b>		Fixed	Fixed	Fixed	Fixed	Varifocal
<b>Focal Length</b>		0F / 1F 4 mm / 6 mm	4 mm	4 mm	4 mm	2.8 ~ 12 mm
<b>Maximum Aperture</b>		0F / 1F F/1.8	F/2.0	F/2.0	F/1.6	F/1.6
<b>Mount</b>		M12	M12	M12	M12	Ø14 mm
<b>Image Format</b>		0F / 1F 1/3"	1/3"	1/3"	1/3"	1/2.8"
<b>Horizontal FOV</b>		0F 78°	80°	80°	83.7°	96° ~ 32°
		1F 49°				
<b>Operation</b>	<b>Focus</b>	Fixed	Fixed	Fixed	Fixed	Manual (with lock)
	<b>Zoom</b>					Manual (with lock)
	<b>Iris</b>					Fixed
<b>IR LED Quantity</b>		1 IR LED	1 IR LED	1 IR LED	2 IR LED	2 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	30 m (100 ft)	30 m (100 ft)	50 m (165 ft)	30 m (100 ft)
<b>Mechanical</b>						
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°
	<b>Tilt</b>	0° ~ 90°	0° ~ 90°	0° ~ 90°	0° ~ 90°	0° ~ 120°
	<b>Rotate</b>	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE
	<b>Ethernet</b>	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
	<b>Audio</b>	N/A	N/A	N/A	N/A	N/A
	<b>Digital I/O</b>	N/A	N/A	N/A	N/A	N/A
	<b>Local Storage</b>	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.
	<b>TV Out</b>	N/A	N/A	N/A	N/A	N/A
<b>General</b>						
<b>Environment Temperature</b>	<b>Startup</b>					
	<b>Operation</b>	-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)
<b>Humidity</b>		0% ~ 95% (no condensation)	10% ~ 90% (no condensation)		0% ~ 95% (no condensation)	0% ~ 95% (no condensation)
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)		12V DC / PoE (IEEE 802.3af)		12V DC / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		5.5 W	4 W		6 W	7 W
<b>Regulatory</b>		FCC, CE, RoHS compliant		FCC, CE, RoHS compliant		FCC, CE, RoHS compliant
<b>Dimensions (L X W X H)</b>		162.9 x 62.4 x 62.7 mm (6.4" x 2.5" x 2.5")		162 x 69 x 69 mm (6.4" x 2.7" x 2.7")		244 x 96 x 74 mm (9.6" x 3.8" x 2.9")
<b>Weight</b>		0.25 kg (0.55 lb)	0.37 kg (0.81 lb)		0.45 kg (0.99 lb)	1 kg (2.2 lb)
<b>Ingress Protection</b>		IP66		IP67		IP67
<b>Vandal Resistance</b>		N/A		N/A		IK10 for metal casing

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




## Target Series Specifications (Part 4)

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

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




## Target Series Specifications (Part 5)

		GV-EFD4700 Series		GV-EFD2700 Series	
					
<b>Camera</b>					
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		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	
<b>Operation</b>					
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			
<b>Optical Lens</b>					
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				
	Zoom	Fixed			
	Iris				
IR LED Quantity		12 IR LEDs			
Max. IR Distance		15 m (50 ft)		40 m (130 ft)	
<b>Mechanical</b>					
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			
<b>General</b>					
Environment Temperature		0°C ~ 45°C (32°F ~ 113°F)			
Humidity		10% to 90% (no condensation)			
Power Source		12V DC / PoE (IEEE 802.3af)			
Max. Power Consumption		6.07 W			
Regulatory		CE, FCC, RCM, LVD, RoHS compliant			
Dimensions (L X W X H)		ø 100 x 60 mm (3.9" x 2.4")			
Weight		148 g (0.33 lb)			
Ingress Protection		N/A			
Vandal Resistance		N/A			

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




## Target Series Specifications (Part 6)

		GV-EDR4700 Series	GV-EDR2700 Series	
				
<b>Camera</b>				
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS	1/2.8" progressive scan super low lux CMOS	
<b>Picture Elements</b>		2592 (H) x 1520 (V)	1920 (H) x 1080 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.03 Lux	0.005 Lux	
	<b>B/W</b>	0.02 Lux	0.004 Lux	
	<b>IR ON</b>	0 Lux		
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/16000 sec)		
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)		
<b>Gain Control</b>		Automatic		
<b>S/N Ratio</b>		50 dB	56 dB	
<b>WDR</b>		WDR Pro		
<b>Dynamic Range</b>		Up to 120 dB	Up to 130 dB	
<b>Operation</b>				
<b>Video Compression</b>		H.265, H.264, MJPEG		
<b>Video Streaming</b>		Triple streams	Dual streams	
<b>Frame Rate</b>		20 fps at 2592 x 1520 24 fps at 2560 x 1440 30 fps at 2048 x 1520	30 fps at 1920 x 1080	
<b>Audio Support</b>		N/A		
<b>Optical Lens</b>				
<b>Day/Night</b>		Yes (with removable IR-cut filter)		
<b>Lens Type</b>		Fixed		
<b>Focal Length</b>	GV-EDR4700-0F / EDR2700-0F	2.8 mm		
	GV-EDR4700-2F / EDR2700-2F	3.8 mm		
<b>Maximum Aperture</b>	GV-EDR4700-0F / EDR2700-0F	F/2.0		
	GV-EDR4700-2F / EDR2700-2F	F/1.8		
<b>Mount</b>		M12, Pitch 0.5 mm		
<b>Image Format</b>		1/2.7"		
<b>Horizontal FOV</b>	GV-EDR4700-0F	96°	GV-EDR2700-0F	100°
	GV-EDR4700-2F	72°	GV-EDR2700-2F	73°
<b>Operation (Focus/Zoom/Iris)</b>		Fixed		
<b>IR LED Quantity</b>		12 IR LEDs		
<b>Max. IR Distance</b>		15 m (50 ft)	40 m (130 ft)	
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	-45° ~ 45°		
	<b>Tilt</b>	0° ~ 63°		
	<b>Rotate</b>	N/A		
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE		
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 cable		
	<b>Audio</b>	N/A		
	<b>Local Storage</b>	N/A	Micro SD card slot (SD/SDHC/UHS-I, Class 10) *UHS-II/SDXC card type is not supported.	
<b>LED Indicator</b>		4 LEDs: Link, ACT, Power, Status		
<b>General</b>				
<b>Environment Temperature</b>	<b>Start-up</b>	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 60°C (-4°F ~ 140°F)	
	<b>Operation</b>	-30°C ~ 50°C (-22°F ~ 122°F)	-30°C ~ 60°C (-22°F ~ 140°F)	
<b>Humidity</b>		10% to 90% (no condensation)		
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)		
<b>Max. Power Consumption</b>		6.07 W		
<b>Regulatory</b>		CE, FCC, RCM, LVD, RoHS compliant		
<b>Dimensions (L X W X H)</b>		ø 114 x 62.8 mm (4.49" x 2.47")		
<b>Weight</b>		600 g (1.32 lb)		
<b>Ingress Protection</b>		IP67		
<b>Vandal Resistance</b>		IK10 for metal casing		

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



## Target Series Specifications (Part 7)


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

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







## Target Series Specifications (Part 8)

		GV-TDR4700	GV-ADR4701	GV-ADR4702	GV-TDR4702	GV-TDR4703	GV-TDR4704	
								
<b>Camera</b>								
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						
IR ON		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						
Gain Control		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	
<b>Operation</b>								
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 Output 1 Relay Output (1A 30V DC / 0.3A 125V AC)	N/A		1 Input, dry contact, NO / NC 1 Relay Output (1A 30V DC / 0.3A 125V AC)		N/A	
<b>Optical Lens</b>								
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	2.8 mm 4.0 mm		
Maximum Aperture		F2.0	F/1.8	F/2.0		F/1.6		
Mount		M12						
Image Format		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)	
<b>Mechanical</b>								
Camera Angle Adjustment		Pan 0° ~ 75° Tilt 0° ~ 75° Rotate 0° ~ 360°	0° ~ 68°	0° ~ 75°		0° ~ 90° 0° ~ 360°	0° ~ 68° 3° ~ 360°	
Power		DC Jack, PoE					DC Jack, PoE	
Ethernet		Ethernet (10/100 Base-T), RJ-45 cable						
Connectors		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	
<b>General</b>								
Environment Temperature		-30°C ~ 60°C (-22°F ~ 140°F)			-35°C ~ 60°C (-31°F ~ 140°F)		-30 °C ~ 60 °C (-22 °F ~ 140 °F)	
Humidity		0% ~ 95% (no condensation)		0% ~ 90% (no condensation)		0% ~ 95% (no condensation)		
Power Source		12V DC / PoE (IEEE 802.3af)						
Max. Power Consumption		5 W		4.5 W		5.5 W		
Regulatory		FCC, CE, RoHS compliant						
Dimensions (L X W X H)		Ø 109 x 81 mm (Ø 4.3" x 3.2")					Ø 108.7 x 81.1 mm (Ø4.3" x 3.2")	
Weight		0.3 kg (0.66 lb)			0.45 kg (0.99 lb)		0.35 kg (0.77 lb)	
Ingress Protection		IP66			IP67			
Vandal Resistance		IK10 for metal casing						

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





## Target Series Specifications (Part 9)

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

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





## Target Series Specifications (Part 10)

		GV-EBD4700	GV-EBD4701	GV-EBD4704	GV-EBD4711	GV-EBD4712
						
<b>Camera</b>						
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS			1/3" progressive scan super low lux CMOS	
<b>Picture Elements</b>		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)
<b>Minimum Illumination</b>	<b>Color</b>	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>B/W</b>	N/A	N/A	N/A	N/A	N/A
	<b>IR ON</b>	0 Lux	0 Lux	0 Lux	0 Lux	0 Lux
<b>Shutter Speed</b>		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)
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>S/N Ratio</b>		52 dB	56 dB	56 dB	52 dB	56 dB
<b>WDR</b>		WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
<b>Dynamic Range</b>		Up to 120 dB	Up to 120 dB	Up to 120 dB	Up to 120 dB	Up to 120 dB
<b>Operation</b>						
<b>Video Compression</b>		H.265, H.264, MJPEG	H.265	H.265, H.264, MJPEG	MJPEG	H.265
<b>Video Streaming</b>		Triple streams	Triple streams	Dual streams	Triple streams	Triple streams
<b>Frame Rate</b>		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
<b>Audio Compression</b>		N/A	G.711	G.711	N/A	G.711
<b>Audio Support</b>		N/A	One-way Audio	One-way Audio	One-way Audio	One-way Audio
<b>Optical Lens</b>						
<b>Day/Night</b>		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)
<b>Lens Type</b>		Fixed	Fixed	Fixed	Motorized varifocal lens	Motorized varifocal lens
<b>Focal Length</b>		2.8 mm	2.8 mm	2.8 mm	2.7 ~ 12 mm	2.8 ~ 12 mm
<b>Maximum Aperture</b>		F/2.0	F/2.0	F/1.6	F/1.4	F/1.6
<b>Mount</b>		M12	M12	M12	M12	M12
<b>Image Format</b>		1/3"	1/3"	1/3"	1/3"	1/3"
<b>Horizontal FOV</b>		100°	107°	101°	91.0°~27.0°	98°~31°
<b>Operation</b>	<b>Focus</b>	Fixed	Fixed	Fixed	Auto / Manual	Auto / Manual
	<b>Zoom</b>				4.4x Optical Zoom	4.3x Optical Zoom
	<b>Iris</b>				Fixed	Fixed
<b>IR LED Quantity</b>		1 IR LED	1 IR LED	1 IR LED	2 IR LEDs	2 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	30 m (100 ft)	30 m (100 ft)	30 m (100 ft)	30 m (100 ft)
<b>Mechanical</b>						
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°
	<b>Tilt</b>	0° ~ 90°	0° ~ 90°	0° ~ 90°	0° ~ 75°	0° ~ 90°
	<b>Rotate</b>	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°
<b>3-axis Mechanism</b>		Yes	Yes	Yes	Yes	Yes
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE
	<b>Ethernet</b>	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)
	<b>Audio</b>	N/A	1 In (built-in microphone)	1 In (built-in microphone)	1 In (built-in microphone)	1 In (built-in microphone)
	<b>TV-Out</b>	N/A	N/A	N/A	N/A	N/A
	<b>Local Storage</b>	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.
<b>LED Indicator</b>		N/A	N/A	N/A	N/A	N/A
<b>Temperature Detector</b>						
<b>General</b>						
<b>Environment Temperature</b>	<b>Start-up</b>	-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)
	<b>Operation</b>					
<b>Humidity</b>		0% ~ 95% (no condensation)	0% ~ 95% (no condensation)	0% ~ 95% (no condensation)	0% ~ 95% (no condensation)	0% ~ 95% (no condensation)
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)			12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		5.5 W	5.5 W	6 W	8.16 W	8.16 W
<b>Regulatory</b>		CE, FCC, RoHS compliant	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS compliant	CE, FCC, RoHS
<b>Dimensions (L X W X H)</b>		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")
<b>Weight</b>		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)
<b>Ingress Protection</b>		IP67	IP67	IP67	IP67	IP67
<b>Vandal Resistance</b>		N/A	N/A	N/A	IK10 for metal casing	IK10 for metal casing

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




## Target Series Specifications (Part 11)

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

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



## Target Series Specifications (Part 12)


		<b>GV-EFD2101</b>
		
<b>Camera</b>		
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	
<b>Operation</b>		
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)	
<b>Optical Lens</b>		
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)	
<b>Mechanical</b>		
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	
<b>General</b>		
Environment	Start-up	0 °C ~ 50 °C (32 °F ~ 122 °F)
	Operation	
Humidity	10% to 90% (no condensation)	
Power Source	12V DC / PoE (IEEE 802.3af)	
Max. Power Consumption	5.8 W	
Regulatory	CE, FCC, RCM, RoHS compliant	
Dimensions (L X W X H)	Ø 125 x 99.5 mm (4.92" x 3.92")	
Weight	470 g (1.04 lb)	
Ingress Protection	N/A	

**Note:**

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



## Target Series Specifications (Part 13)

		GV-EVD2100	GV-EVD3100	GV-EVD5100
				
<b>Camera</b>				
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
<b>Operation</b>				
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)		
<b>Optical Lens</b>				
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)
<b>Mechanical</b>				
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		
<b>General</b>				
Environment	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:**

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



## Target Series Specifications (Part 14)




		GV-AVD2700	GV-TVD4700	GV-TVD4711	GV-AVD4710	GV-TVD4710	GV-AVD8710	GV-TVD8710	
<b>Camera</b>									
<b>Image Sensor</b>		1/2.8" progressive scan low lux CMOS	1/3" progressive scan super low lux CMOS				1/2" progressive scan super low lux CMOS		
<b>Picture Elements</b>		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)			
<b>Minimum Illumination</b>	<b>Color</b>	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>B/W</b>	N/A							
	<b>IR ON</b>	0 Lux							
<b>Shutter Speed</b>		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)			
<b>White Balance</b>		Auto / Manual							
<b>Gain Control</b>		Auto / Manual							
<b>S/N Ratio</b>		52 dB		56 dB		55 dB	56dB	52 dB	
<b>WDR Pro (with WDR sensor)</b>		Yes							
<b>Dynamic Range</b>		Up to 120 dB	Up to 72 dB	Up to 120 dB		Up to 120 dB			
<b>Operation</b>									
<b>Video Compression</b>		H.265, H.264, MJPEG							
<b>Video Streaming</b>		Triple streams							
<b>Frame Rate</b>		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 x 1296	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		
<b>Audio Compression</b>		G.711	N/A	G.711		G.711			
<b>Audio Support</b>		Two-way Audio (external microphone and speaker required)	N/A	Two-way Audio (external microphone and speaker required)					
<b>Optical Lens</b>									
<b>Day/Night</b>		Yes (with removable IR-cut filter)							
<b>Lens Type</b>		Varifocal			Motorized varifocal				
<b>Focal Length</b>		2.8 ~ 12 mm							
<b>Maximum Aperture</b>		F/1.6			F/1.4		F/1.5		
<b>Mount</b>		Ø 14 mm							
<b>Image Format</b>		1/2.8"	1/3"		1/3"		1/2"		
<b>Horizontal FOV</b>		108° ~ 30°	97° ~ 29°	98° ~ 31°		91° ~ 27°		114.8° ~ 47.3°	
<b>Operation</b>	<b>Focus</b>	Manual (with lock)				Auto / Manual			
	<b>Zoom</b>	Manual (with lock)		4.3x Optical Zoom		4.3x Optical Zoom			
	<b>Iris</b>	Fixed							
<b>IR LED Quantity</b>		2 IR LEDs							
<b>Max. IR Distance</b>		30 m (100 ft)							
<b>Mechanical</b>									
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°							
	<b>Tilt</b>	0° ~ 80°							
	<b>Rotate</b>	0° ~ 360°							
<b>3-axis Mechanism</b>		Yes							
<b>Pigtail-Free</b>		No		Yes		No			
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE		2-pin terminal block (DC 12V, 1.25 A), PoE		DC Jack, PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 cable							
	<b>Audio</b>	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)			
	<b>TV-Out</b>	BNC connector (640 x 480 resolution)	N/A				BNC connector (640 x 480 resolution)		
	<b>Digital I/O</b>	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"			
<b>Local Storage</b>	Micro SD card slot (SD/SDHC/SDXC/UHS-I, class 10) *UHS-II card type is not supported.								
<b>General</b>									
<b>Environment Temperature</b>	<b>Start-up</b>	-40°C ~ 60°C (-40°F ~ 140°F)			-35° 60°C (-31 ~ 140°F)		-40°C ~ 60°C (-40°F ~ 140°F)		
	<b>Operation</b>								
<b>Humidity</b>		0 ~ 95% (no condensation)							
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)							
<b>Max. Power Consumption</b>		7.2 W	7 W	8.7 W		7.2 W	8 W		
<b>Regulatory</b>		CE, FCC, RoHS compliant	CE, FCC, RoHS compliant			CE, FCC, RoHS compliant			
<b>Dimensions (L X W X H)</b>		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")		
<b>Weight</b>		0.75 kg (1.7 lb)		0.92 kg (2 lb)		0.75 kg (1.7 lb)			
<b>Ingress Protection</b>		IP67			IP66		IP67		
<b>Vandal Resistance</b>		IK10 for metal casing							

**Note:**

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



## Target Series Specifications (Part 15)



		GV-EFER3700 (Outdoor)	GV-EFER3700-W (Outdoor)
			
<b>Camera</b>			
Image Sensor		1/2.8" progressive scan super low lux CMOS	
Picture Elements		2048 (H) x 1536 (W)	
Minimum Illumination	Color	0.001 Lux	
	B/W	0.001 Lux	
	IR ON	0 Lux	
Shutter Speed		Automatic, Manual (1/5 ~ 1/16000 sec)	
White Balance		Automatic, Manual (2800K ~ 8500K)	
Gain Control		Automatic	
S/N Ratio		54 dB	
WDR Pro (with WDR Sensor)		Yes	
Dynamic Range		Up to 120 dB	
<b>Operation</b>			
Video Compression		H.265, H.264, MJPEG	
Video Streaming		Stream 1 from H.265 or H.264	
		Stream 2 from H.265, H.264 or MJPEG	
		Stream 3 from H.265, H.264 or MJPEG	
Frame Rate		50Hz: 25 fps at 2048 x 1536, 25 fps at 1440 x 1376 60Hz: 30 fps at 2048 x 1536, 30 fps at 1440 x 1376	
Audio Compression		G.711	
Audio Support		Two-way Audio (external microphone and speaker required)	
Sensor Input		1 input (Dry Contact)	
Sensor Output		1 digital output (200mA 5V DC)	
<b>Optical Lens</b>			
Day/Night		Yes (with removable IR-cut filter)	
Focal Length		1.24 mm	
Maximum Aperture		F/1.8	
Mount		M12	
Image Format		1/3"	
Horizontal FOV		185°	
Operation	Focus	Fixed	
	Iris	Fixed	
	Zoom	Fixed	
IR LED Quantity		3 IR LEDs	
Max. IR Distance		20 m (65 ft)	
<b>Mechanical</b>			
Temperature Detector		Yes	
Connectors	Power	2-pin terminal block, PoE	2-pin terminal block
	Ethernet	Ethernet (10/100 Base-T), RJ-45	
	Audio	1 In (3.5 mm microphone jack), 1 Out (3.5 mm stereo jack)	
	Digital I/O	3-pin terminal block, pitch 2.5 mm/0.1"	
	Local Storage	Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.	
LED Indicator		2 LEDs: Power / Status	4 LEDs: Power / Status / WiFi Power / WiFi Status
<b>General</b>			
Environment	Start-Up	-20°C ~ 50°C (-4°F ~ 122°F)	
	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 (5.5" x 2.05")	
Weight		670 g (1.47 lb)	
Ingress Protection		IP67	
Vandal Resistance		IK8	

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







## Fisheye Camera Specifications (Part 1)

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

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







## Fisheye Camera Specifications (Part 2)

		GV-FER12700 (Outdoor)	GV-QFER12700 (Outdoor)
			
<b>Image Sensor</b>		1/1.7" progressive scan CMOS	1/1.7" progressive scan CMOS
<b>Picture Elements</b>		4000 (H) x 3000 (V)	4000 (H) x 3000 (V)
<b>Minimum Illumination</b>	Color	0.1 Lux	0.1 Lux
	B/W	0.05 Lux	0.01 Lux
	IR ON	0 Lux	0 Lux
<b>Shutter Speed</b>		Automatic, Manual (1/5 ~ 1/16000 sec)	Automatic, Manual (1/5 ~ 1/10000 sec)
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)	Automatic, Manual
<b>Gain Control</b>		Automatic	Automatic
<b>S/N Ratio</b>		52 dB	52 dB
<b>WDR Pro (with WDR Sensor)</b>		WDR	WDR
<b>Dynamic Range</b>		Up to 72 dB	Up to 77 dB
<b>Video Compression</b>		H.265, H.264, MJPEG	H.265, H.264, MJPEG
<b>Video Streaming</b>		Triple streams from H.265, H.264 or MJPEG	Quad streams from H.265, H.264 or MJPEG
<b>Frame Rate</b>		25/30 fps at 4000 x 3000 and 3160 x 3000	20 fps at 4000 x 3000 (50/60 Hz)
<b>Audio Compression</b>		G.711	G.711
<b>Audio Support</b>		Two-way Audio (external microphone and speaker required)	
<b>Sensor Input</b>		1 Input (Dry Contact)	1 Input
<b>Alarm Output</b>		1 Digital Output (200 mA 5V DC)	1 Output
<b>Day/Night</b>		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
<b>Focal Length</b>		1.2 mm	1.65 mm
<b>Maximum Aperture</b>		F/2.2	F/2.8
<b>Mount</b>		M12	M12
<b>Image Format</b>		1/1.7"	1/1.7"
<b>Horizontal FOV</b>		180°	180°
<b>Operation</b>	Focus	Fixed	Fixed
	Iris		
	Zoom		
<b>IR LED Quantity</b>		6 IR LEDs	4 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	10 m (35 ft)
<b>Temperature Detector</b>		Yes	Yes
<b>Connectors</b>	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
<b>Environment</b>	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)
<b>Humidity</b>		10% to 90% (no condensation)	10% to 90% (no condensation)
<b>Power Source</b>		12V DC / PoE+ (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		17 W	12.95 W
<b>Regulatory</b>		CE, FCC, LVD, RoHS compliant	CE, FCC, RoHS compliant
<b>Dimensions</b>		Ø 160.59 x 59.40 mm (6.22" x 2.33")	Ø 130*57.8 mm (Ø 5.12" x 2.28")
<b>Weight</b>		700 g (1.54 lb)	565 g (1.25 lb)
<b>Ingress Protection</b>		IP67	IP66
<b>Vandal Resistance</b>		IK10+ for metal casing	IK10

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







## IP Speed Dome Camera Specifications (Part 1)

Camera		GV-SD2301 V2 (Outdoor)	GV-SD2411 V2(Outdoor)	GV-SD2723-IR	GV-SD2733-IR
					
Image Sensor		1/3 Progressive scan low lux CMOS		1/3 progressive scan low lux CMOS sensor	
Picture Elements		1920 (H) x 1080 (V)		1920 (H) x (1080 (V)	
Minimum Illumination	Color	0.5 lux		0.5 lux at F/1.6	
	B/W	0.1 lux		0.1 lux at F/1.6	
	IR ON	N/A		0 Lux	
Shutter Speed		1/6 ~ 1/30000 sec			
White Balance		Auto / Manual		Auto / Manual (2800 ~ 8500K)	
Gain Control		Auto / Manual		Automatic	
S/N Ratio		50 dB		50 dB (AGC Off)	
BLC				N/A	
Optical Zoom		20x	30x	20x	30x
Digital Zoom		32x			
WDR Pro (with WDR sensor)		Yes			
Dynamic Range		Up to 100 dB		Up to 120 dB	
<b>Operation</b>					
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			
<b>Optical Lens</b>					
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			
<b>Mechanical</b>					
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.			
<b>General</b>					
Environment Temperature		-40 °C ~ 50 °C (-40 °F ~ 122 °F)		-40°C ~ 70°C (-40°F ~ 158°F)	
Fan		> 55 °C (131 °F), < 15 °C (59 °F)		> 55 °C (131 °F)	
Humidity		10% ~ 90% (no condensation)			
Power Source		24V AC / 24V DC / High PoE (PoE++, 90 W)			
Max. Power Consumption		53.5 W		85 W	
Regulatory		CE, FCC, RCM, RoHS Compliant			
Dimensions	Camera Body	Ø 211.63 x 232 mm (8.332" x 9.13")		Ø 201.7 x 293.2 mm (7.94" x 11.54")	
Weight		3.1 kg (6.82 lb)		5.6 kg (12.3 lb)	
Ingress Protection		IP67		IP66	
Vandal Resistance		IK10 for metal casing			

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



## IP Speed Dome Camera Specifications (Part 2)




Camera	GV-SD2722-IR (Outdoor)		GV-SD3732-IR (Outdoor)		GV-SD4825-IR		GV-SD4834-IR		
									
Image Sensor	1/1.8 Progressive scan super low lux CMOS sensor		1/2.8 Progressive scan low lux CMOS sensor		1/2.8 Progressive scan CMOS sensor		1/2.8 Progressive scan CMOS sensor		
Picture Elements	1920 (H) x 1080 (V)		2048 (H) x 1536 (V)		2688 (H) x 1520 (V)		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)		0.003 Lux (F1.5, AGC ON)	
	B/W	N/A		N/A		N/A		N/A	
	IR ON	0 Lux		0 Lux		0 Lux		0 Lux	
Shutter Speed	Auto / Manual (1/6 ~ 1/100000 sec)				Auto / Manual (1 ~ 1/100000 sec)				
White Balance	Auto / Manual								
AGC Control	Auto / Manual				Auto / Manual				
S/N Ratio	52 dB		55 dB		56 dB				
Optical Zoom	22x				25x		33x		
Digital Zoom	Unlimited								
WDR Pro (with WDR sensor)	Yes								
Dynamic Range	Up to 120 dB								
Video Compression	H.265, H.264 or MJPEG								
Video Streaming	Triple streams from H.265, H.264 or MJPEG								
Frame Rate	60 fps (60 / 50 Hz) at 1920 x 1080		30 fps (60 / 50 Hz) at 2048 x 1536 60 fps (60 / 50 Hz) 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								
Cruise	N/A								
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		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")				Ø 166 x 295mm (6.5" x 11.6")		Ø 227 x 384.8mm (8.9" x 15.1")		
Weight	5.4 kg (11.9 lb)				3.05 kg (6.72 lb)		5.28 kg (11.64 lb)		
Ingress Protection	IP66				IP67		IP66		
Vandal Resistance	IK10 for metal casing								

**Note:**

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



### IP Speed Dome Camera Specifications (Part 3)



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

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




## Pinhole Camera Specifications

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

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




## Panoramic PTZ IP Camera

		GV-PPTZ7300	GV-PPTZ14021	GV-PPTZ14031
				
<b>Camera</b>				
<b>Image Sensor</b>		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	
<b>Picture Elements</b>		FE: 2560 (H) x 1920 (V); SD: 1920 (H) x 1080 (V)	FE: 4000 (H) x 3000 (V); SD: 1920 (H) x 1080 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	FE: 0.15 Lux; SD: 0.5 Lux	FE: 0.1 Lux; SD: 0.5 Lux	
	<b>B/W</b>	FE: 0.15 Lux; SD: 0.1 Lux	FE: 0.05 Lux; SD: 0.1 Lux	
<b>Shutter Speed</b>		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.)	
<b>White Balance</b>		Automatic, Manual (2800K ~ 8500K)		
<b>Gain Control</b>		FE: Automatic; SD: Automatic, Manual		
<b>S/N Ratio</b>		FE: 45 dB; SD: 50 dB (AGC Off)	FE: 52 dB; SD: 50 dB (AGC Off)	
<b>WDR</b>		FE: Yes (WDR); SD: Yes (WDR Pro)	FE: N/A; SD: Yes (WDR Pro)	
<b>Dynamic Range</b>		FE: Up to 72 dB; SD: Up to 100 dB		
<b>Operation</b>				
<b>Video Compression</b>		H.264, MJPEG	H.265 (SD Only), H.264, MJPEG	
<b>Video Streaming</b>		Dual streams from H.264 or MJPEG	Dual streams from H.265 (SD Only), H.264 or MJPEG	
<b>Frame Rate</b>		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)	
<b>Audio Compression</b>		G.711		
<b>Audio Support</b>		Two-way Audio (external microphone and speaker required)		
<b>Sensor Input</b>		4 Input (Dry Contact)		
<b>Alarm Output</b>		1 Digital Output (200 mA 5V DC)	1 Digital Output (4A 30V DC / 250V AC)	
<b>Pan Travel</b>		355°	360°	
<b>Tilt Travel</b>		-15° ~ 195°		
<b>Proportional Pan &amp; Tilt</b>		Auto (Pan and tilt speed proportional to zoom ratio)		
<b>Picture Flip</b>		On / Off		
<b>Sequence</b>	<b>Max. Number</b>	8		
	<b>Max. Presets</b>	16		
<b>Auto Pan</b>		8		
<b>Cruise</b>		4		
<b>Tour</b>	<b>Max. Number</b>	8		
	<b>Max. Number of Preset / Sequence / Auto Pan / Cruise</b>	16		
<b>Privacy Mask</b>		8		
<b>Wide Dynamic Range</b>		On / Off		
<b>Optical Lens</b>				
<b>Day/Night</b>		FE: Yes (Electronic); SD: Yes (with removable IR-cut filter)		
<b>Focal Length</b>		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
<b>Maximum Aperture</b>		FE: F/2.0; SD: F/1.6		
<b>Horizontal FOV</b>		FE: 180°; SD: 54° ~ 4.9°	FE: 180°; SD: 55.4° ~ 2.9°	FE: 180°; SD: 58.9° ~ 2.11°
<b>Operation</b>	<b>Focus</b>	FE: Fixed; SD: Auto / Manual		
	<b>Zoom</b>	FE: Fixed; SD: 10x	FE: Fixed; SD: 20x	FE: Fixed; SD: 30x
	<b>Iris</b>	FE: Fixed; SD: Auto / Manual		
<b>Mechanical</b>				
<b>Temperature Detector</b>		Yes		
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE++		
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 Connector		
	<b>Audio</b>	1 In, 1 Out (RCA female for microphone and speaker)		
	<b>Digital I/O</b>	I/O wires		
<b>Local Storage</b>		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.	
<b>General</b>				
<b>Operating Temperature</b>		-40°C ~ 50°C (-40°F ~ 122°F)		
<b>Heater</b>		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)	
<b>Fan On</b>		45°C (113°F)		
<b>Humidity</b>		20% to 90% (no condensation)		
<b>Power Source</b>		10% to 90% (no condensation)		
<b>Max. Power Consumption</b>		DC 24V / AC 24V / High PoE (PoE++, 40 W)	DC 24V / AC 24V / High PoE (PoE++, 53 W)	
<b>Regulatory</b>		40 W		
<b>Dimensions</b>		CE, FCC, RCM, RoHS compliant		
<b>Weight</b>		Ø 211.63 x 272.00 mm (8.332" x 10.709")	Ø 211 x 277 mm (8.3" x 10.9")	
<b>Ingress Protection</b>		3.75 kg (8.27 lb)	IP67	
<b>Vandal Resistance</b>		3.3 kg (7.27 lb)		IK10 for metal casing
<b>Vandal Resistance</b>		IK10 for metal and polycarbonate casing		

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



## Thermal IP Camera


		<b>GV-TM0100</b>
		
<b>Camera</b>		
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
<b>Operation</b>		
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
<b>Optical Lens</b>		
Focal Length		40 mm
Horizontal FOV		13.7°
Operation	Focus	Auto / Manual
	Zoom	2x (Digital)
	Iris	N/A
<b>Observation Range</b>		
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)
<b>Mechanical</b>		
Connectors	Power	2-pin terminal block, PoE
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable
	Audio	N/A
<b>General</b>		
Environment Temperature		-20°C ~ 40 °C (-4 °F ~ 104 °F)
Humidity		20% to 90% (no condensation)
Power Source		12V DC / PoE (IEEE 802.3af)
Max. Power Consumption		10 W
Regulatory		CE, FCC, RCM, RoHS compliant
Dimensions		485.5 x 249.48 x 156.99 mm (19.11" x 9.82" x 6.18")
Weight (with rack)		2.75 kg (6.06 lb)

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





## Virtual Reality IP Camera


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

**Note:**

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





## Face Recognition IP Camera

		GV-VD8700 (Outdoor)	GV-FD8700-FR (Indoor)
			
<b>Camera</b>			
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	
<b>Operation</b>			
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)	
<b>Optical Lens</b>			
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)	
<b>Face Recognition</b>			
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	
<b>Mechanical</b>			
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	
<b>General</b>			
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:** Product design and specifications are subject to change without notice. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).




## Face Detection IP Camera

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

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







## Surround Video IP Camera

		GV-SV48000
		
<b>Camera</b>		
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
<b>Operation</b>		
Video Compression		H.264, MJPEG
Video Streaming		Dual streams from H.264 or MJPEG
Frame Rate		15 fps at 4000 x 3000 (60/50 Hz) *The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).
Audio Compression		G.711
Audio Support		Two-way Audio
Sensor Input		4 Input (Dry Contact)
Alarm Output		1 Digital Output (4A 30V DC/250V AC)
<b>Optical Lens</b>		
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)
<b>Video Resolution</b>		
Main Stream	4:3	4000 x 3000 (Default)
Sub Stream		1024 x 768 (Default), 640 x 480, 320 x 240
<b>Network</b>		
Interface		10/100 Ethernet
<b>Mechanical</b>		
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.
<b>General</b>		
Environment Temperature	Start-up	-40°C (-40°F)
	Operation	-40°C ~ 50°C (-40°F ~ 122°F)
Heater		Heater On: 0°C (32°F); Off: 5°C (41°F)
Fan-on		50°C (122°F)
Humidity		10% ~ 90% (no condensation)
Power Source		24V DC, 3.75A / 24V AC, 3A / High PoE (PoE++, 72 W)
Max. Power Consumption		72 W
Regulatory		CE, FCC, RoHS compliant
Dimensions (Straight Tube Mount)		Ø 325.60 mm x 152.60 mm (Ø 12.82" x 6.01")
Weight		3700 g (8.16 lb)
Ingress Protection		IP67
Vandal Resistance		IK10 for metal casing

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







## AI Deep Learning IP Camera (Part 1)

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

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







## AI Deep Learning IP Camera (Part 2)

		GV-TDR4803	GV-TDR8805	GV-TFD4800	GV-TVD4810
					
<b>Camera</b>					
<b>Image Sensor</b>		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
<b>Picture Elements</b>		2688 (H) x 1520 (V)	3840 (H) x 2160 (V)	2688 (H) x 1520 (V)	2688 (H) x 1520 (V)
<b>Minimum Illumination</b>	<b>Color</b>	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)
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>		Auto / Manual (1 ~ 1/100000 sec)			
<b>White Balance</b>		Automatic, Manual			
<b>Gain Control</b>		Automatic, Manual			
<b>S/N Ratio</b>		56 dB		52 dB	56 dB
<b>WDR</b>		WDR Pro			
<b>Dynamic Range</b>		120 dB			
<b>Operation</b>					
<b>Video Compression</b>		H.265, H.264, MJPEG			
<b>Video Streaming</b>		Triple streams from H.265, H.264 or MJPEG			
<b>Frame Rate</b>		30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296 (60 / 50 Hz)	20 fps at 3840 x 2160, 30 fps at 3072 x 1728, 30 fps at 2560 x 1440, 30 fps at 1920 x 1080 (60 / 50 Hz)	30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296, 30 fps at 1920 x 1080 (60 / 50 Hz)	30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296 (60 / 50 Hz)
		*The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).			
<b>Audio Compression</b>		G.711			
<b>Audio Support</b>		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)
<b>Sensor Input</b>		1 Input, dry contact, NO / NC			
<b>Alarm Output</b>		1 Relay Output (1A 30V DC / 0.3A 125V AC)			
<b>Optical Lens</b>					
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Fixed			Motorized varifocal lens
<b>Focal Length</b>	2F	2.8 mm	2.8 mm	2.8 mm	2.7 ~ 13.5mm
	4F	4 mm			
<b>Maximum Aperture</b>		F/1.6			F/1.2
<b>Mount</b>		M12			Ø 14 mm
<b>Horizontal FOV</b>		101°	112.9°	101.1°	98~ 31°
<b>Operation</b>	<b>Focus</b>	Fixed			Auto / Manual
	<b>Zoom</b>	Fixed			5x Optical Zoom
	<b>Iris</b>	Fixed			Fixed
<b>IR LED Quantity</b>		1 IR LED			2 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)			40 m (130 ft)
<b>Video Resolution</b>					
<b>Main Stream</b>		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
<b>Sub Stream</b>		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
<b>Third Stream (Closed by Default)</b>		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
<b>Network</b>					
<b>Interface</b>		10/100 Ethernet			
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	3° ~ 360°	0° ~ 348°	0° ~ 360°
	<b>Tilt</b>	0° ~ 68°		-66° ~ 66°	0 ~ 80°
	<b>Rotate</b>	0° ~ 360°	3° ~ 360°	0° ~ 346°	0° ~ 360°
<b>Connectors</b>	<b>Power</b>	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)
	<b>Ethernet</b>	RJ-45			
	<b>Audio</b>	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)
	<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm (0.14")		Terminal block	4-pin terminal block pitch 3.5 mm (0.14")
	<b>Local Storage</b>	Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.			
<b>General</b>					
<b>Operating Temperature</b>		-30 ~ 60°C (-22 ~ 140°F)		-30 ~ 55°C (-22 ~ 131°F)	
<b>Humidity</b>		0 ~ 95% (no condensation)			
<b>Power Source</b>		12V DC / PoE (IEEE802.3af)			
<b>Max. Power Consumption</b>		4.5 W	6 W	4.5 W	7.0 W
<b>Regulatory</b>		FCC, CE, RoHS compliant		CE, FCC, LVD, RoHS compliant	FCC, CE, RoHS compliant
<b>Dimensions</b>		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")
<b>Weight</b>		0.42 kg (0.93 lb)	0.43 kg (0.95 lb)	0.22 kg (0.49 lb)	0.92 kg (2.03 lb)
<b>Ingress Protection</b>		IP67		N/A	IP67
<b>Vandal Resistance</b>		IK10 for metal casing		N/A	IK10 for metal casing

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



## AI Deep Learning IP Camera (Part 3)





		GV-TBL8804	GV-TBL8810	GV-TVD8810	GV-PTZ5810-IR
					
<b>Camera</b>					
<b>Image Sensor</b>		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
<b>Picture Elements</b>		3840 (H) x 2160 (V)		2880 (H) x 1620 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	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)
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>		Auto / Manual (1/12 ~ 1/100000 sec)		Auto / Manual (1 ~ 1/100000 sec)	
<b>White Balance</b>		Auto / Manual			
<b>Gain Control</b>		Auto / Manual			
<b>S/N Ratio</b>		56 dB			
<b>WDR</b>		WDR Pro			
<b>Dynamic Range</b>		Up to 120 dB			
<b>Operation</b>					
<b>Video Compression</b>		H.265, H.264, MJPEG			
<b>Video Streaming</b>		Triple streams			
<b>Frame Rate</b>		20 fps at 3840 x 2160, 30 fps at 3072 x 1728 / 2560 x 1440 / 1920 x 1080 (60 / 50 Hz)			30 fps at 2880 x 1620, 30 fps at 2560 x 1440, 30 fps at 2304 x 1296, 30 fps at 1920 x 1080 (60 / 50 Hz)
*The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).					
<b>Audio Compression</b>		G.711			
<b>Audio Support</b>		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)
<b>Sensor Input</b>		N/A	1 Input, dry contact, NO / NC		1 Input, NO / NC
<b>Alarm Output</b>		N/A	1 Relay Output (1A 30V DC / 0.3A 125V AC)		1 Relay Output (0.5A 125V AC / 1A 30V DC)
<b>Optical Lens</b>					
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Fixed	Motorized varifocal		
<b>Focal Length</b>		4 mm	2.8 ~ 12 mm	2.8 ~ 12 mm	2.7 ~ 13.5 mm
<b>Maximum Aperture</b>		F/2.0	F/1.6	F/1.6	F/1.2
<b>Mount</b>		M12	Ø 14 mm	Ø 14 mm	N/A
<b>Horizontal FOV</b>		86°	31° ~ 96°	34° ~ 106°	30.6° ~ 106.9°
<b>Operation</b>	<b>Focus</b>	Fixed	Auto / Manual		
	<b>Zoom</b>		4.3x optical zoom	4.3x optical zoom	5x optical zoom
	<b>Iris</b>		Fixed	Fixed	Fixed
<b>IR LED Quantity</b>		1 IR LED	3 IR LEDs	2 IR LEDs	2 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	50 m (165 ft)	40 m (130 ft)	30 m (100 ft)
<b>White LED Quantity</b>		2 Warm LEDs	N/A	N/A	N/A
<b>Max. White Light Distance</b>		20 m (65 ft)	N/A	N/A	N/A
<b>Video Resolution</b>					
<b>Main Stream</b>		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
<b>Sub Stream</b>		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)
<b>Third Stream (Closed by Default)</b>		720 x 576, 704 x 288, 640 x 360, 352 x 288			720 x 576, 704 x 288, 640 x 360, 352 x 288
<b>Network</b>					
<b>Interface</b>		10/100 Ethernet			
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0 ~ 360°			0 ~ 350°
	<b>Tilt</b>	0 ~ 90°	0 ~ 120°	0 ~ 68°	0 ~ 90°
	<b>Rotate</b>	0 ~ 360°			N/A
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE			
	<b>Ethernet</b>	RJ-45			
	<b>Audio</b>	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)
	<b>Digital I/O</b>	N/A	4-pin terminal block pitch 3.5 mm (0.14")		I/O wires
<b>Local Storage</b>		Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.			
<b>General</b>					
<b>Operating Temperature</b>		-30 ~ 60°C (-22 ~ 140°F)			-10°C ~ 50°C (14°F ~ 122°F)
<b>Humidity</b>		0 ~ 95% (no condensation)			
<b>Power Source</b>		12V DC / PoE (IEEE802.3af)			12V DC / PoE+ (IEEE 802.3at)
<b>Max. Power Consumption</b>		10.5 W	9.5 W	5.5 W	15 W
<b>Regulatory</b>		FCC, CE, RoHS compliant			
<b>Dimensions</b>		191 x 75 x 74 mm (7.5" x 3.0" x 2.9")	244 x 96 x 74 mm (9.6" x 3.8" x 2.9")	Ø 148 x 111 mm (Ø 5.8 x 4.4")	Ø 129 x 143.6 mm (Ø 5.1" x 5.7")
<b>Weight</b>		0.41 kg (0.99 lb)	1.0 kg (2.2 lb)	0.45 kg (0.99 lb)	0.75 kg (1.65 lb)
<b>Ingress Protection</b>		IP67			N/A
<b>Vandal Resistance</b>		N/A	IK10 for metal casing	IK10 for metal casing	N/A

**Note:**

- The signal range and data throughput may vary depending on the network conditions and environmental



## AI Deep Learning IP Camera (Part 4)

		GV-EBD8800	GV-EBD8813	GV-PBL8800	GV-PDR8800
					
<b>Camera</b>					
<b>Image Sensor</b>		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
<b>Picture Elements</b>		3840 (H) x 2160 (V)			
<b>Minimum Illumination</b>	<b>Color</b>	0.01 Lux (F2.0, AGC ON)	0.003 Lux (F1.5, AGC ON)	0.012 Lux (F2.0, AGC ON)	
	<b>B/W</b>	N/A			
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>		Auto / Manual (1 ~ 1/100000 sec)			
<b>White Balance</b>		Automatic, Manual			
<b>Gain Control</b>		Automatic, Manual			
<b>S/N Ratio</b>		56 dB		55 dB	
<b>WDR</b>		WDR Pro			
<b>Dynamic Range</b>		120 dB			
<b>Operation</b>					
<b>Video Compression</b>		H.265, H.264, MJPEG			
<b>Video Streaming</b>		Triple streams			
<b>Frame Rate</b>		20 fps at 3840 x 2160, 30 fps at 3072 x 1728 / 2560 x 1440 / 1920 x 1080 (60 / 50 Hz)		25 fps at 3840 x 2160, 30 fps at 3456 x 1936 / 3200 x 1800 / 2880 x 1624 (60 / 50 Hz)	
		*The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).			
<b>Audio Compression</b>		G.711			
<b>Audio Support</b>		One-way Audio			
<b>Sensor Input</b>		N/A			
<b>Alarm Output</b>		N/A			
<b>Optical Lens</b>					
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Fixed	Motorized varifocal	Fixed	
<b>Focal Length</b>		2.8 mm	2.8 ~ 12 mm	1.68 mm	
<b>Maximum Aperture</b>		F/2.0	F/1.6	F/2.0	
<b>Mount</b>		M12	∅ 12 mm	M12	
<b>Horizontal FOV</b>		112°	107° ~ 29°	180°	
<b>Operation</b>	<b>Focus</b>	Auto / Manual		Fixed	Fixed
	<b>Zoom</b>	Fixed	4.3x optical zoom		
	<b>Iris</b>	Fixed			
<b>IR LED Quantity</b>		1 IR LED	2 IR LEDs		
<b>Max. IR Distance</b>		30 m (100 ft)	40 m (130 ft)	15 m (50 ft)	
<b>Video Resolution</b>					
<b>Main Stream</b>		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	
<b>Sub Stream</b>		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	
<b>Third Stream (Closed by Default)</b>		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	
<b>Network</b>					
<b>Interface</b>		10/100 Ethernet			
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°		0° ~ 360°	0° ~ 180°
	<b>Tilt</b>	0 ~ 90°	0 ~ 75°	5° ~ 90°	0° ~ 180°
	<b>Rotate</b>	0° ~ 360°		0° ~ 360°	N/A
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE		2-pin terminal block, PoE	DC Jack, PoE
	<b>Ethernet</b>	RJ-45			
	<b>Audio</b>	1 In (built-in microphone)			
	<b>Digital I/O</b>	N/A			
	<b>Local Storage</b>	Micro SD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.			
<b>General</b>					
<b>Operating Temperature</b>		-30 ~ 60°C (-22 ~ 140°F)		-40°C ~ 60°C (-40°F ~ 140°F)	
<b>Humidity</b>		0 ~ 95% (no condensation)		0 ~ 90% (no condensation)	
<b>Power Source</b>		12V DC / PoE (IEEE802.3af)			
<b>Max. Power Consumption</b>		6.4 W	8.16 W	9 W	
<b>Regulatory</b>		FCC, CE, RoHS compliant		CE, FCC compliant	
<b>Dimensions</b>		∅ 126 x 94 mm (∅5.0 x 3.7")	∅ 129 x 110 mm (∅ 5.1" x 4.3")	97 x 74 x 168.5 mm (3.82 x 2.91 x 6.63")	∅ 127.2 x 107 mm (∅ 5 x 4.2")
<b>Weight</b>		0.45 kg (0.99 lb)	0.67 kg (1.48 lb)	0.63 kg (1.39 lb)	0.85 kg (1.87 lb)
<b>Ingress Protection</b>		IP67			
<b>Vandal Resistance</b>		N/A	IK10 for metal casing		

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