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



## Box Camera


	GV-BX2700 Series		GV-BX4700 Series		GV-BX5700 Series		GV-BX8700	GV-BX12201	
	GV-BX2700-8F	GV-BX2700-3V	GV-BX4700-8F	GV-BX4700-3V	GV-BX5700-8F	GV-BX5700-3V			
	Fixed Lens	Varifocal Lens	Fixed Lens	Varifocal Lens	Fixed Lens	Varifocal Lens			
									
<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 (5V DC, 200 mA)								
<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							Ethernet (10/100/1000 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>	microSD 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>Certification</b>	CE, FCC, RCM, LVD, RoHS compliant						CE, FCC, LVD, 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.
- 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

		<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>LED Indicator</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>Certification</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: 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

		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 (5V DC, 200 mA)		
<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>	microSD 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>Certification</b>		CE, FCC, RCM, RoHS compliant		CE, FCC, LVD, RoHS compliant
<b>Dimensions</b>		Ø121.8 x 406 mm (4.79" x 15.98")	Ø128.64 x 406 mm (5.06" x 15.98")	Ø292.75 x 95 x 95 mm (11.53" x 3.74" x 3.74")
<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: 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 (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		46 dB	
<b>WDR</b>		WDR Pro		Yes	
<b>Dynamic Range</b>		Up to 130 dB		Up to 72 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 (5V DC, 200mA)			
<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/1.65	
<b>Mount</b>		Ø14 mm			
<b>Image Format</b>		1/2.7"		1/1.8"	
<b>Horizontal FOV</b>		110° ~ 38°		90° ~ 48°	
<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>	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.		microSD 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		25.5 W	
<b>Certification</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.
- 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 (Part 2)


		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 (5V DC, 200mA)	
<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, 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>	microSD 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>Certification</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.
- 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 Dome

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

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




## Mini Fixed Dome (Part 1)

		GV-MFD2700 Series		GV-MFD4700 Series	
					
<b>Camera</b>					
Image Sensor		1/2.8" progressive scan super low lux CMOS		1/3" progressive scan super low lux CMOS	
Picture Elements		1920 (H) x 1080 (V)		2592 (H) x 1520 (V)	
Minimum Illumination	Color	0.005 Lux		0.03 Lux	
	B/W	0.004 Lux		0.02 Lux	
	IR ON	0 Lux			
Shutter Speed		Auto, Manual (1/5 ~ 1/16000 sec)			
White Balance		Auto, Manual (2800K ~ 8500K)			
Gain Control		Automatic			
S/N Ratio		56 dB		50 dB	
WDR Pro (with WDR Sensor)		Yes			
Dynamic Range		Up to 130 dB		Up to 120 dB	
<b>Operation</b>					
Video Compression		H.265, H.264, MJPEG			
Video Streaming		Stream 1 from H.265 or H.264 Stream 2 and 3 from H.265, H.264 or MJPEG			
Frame Rate		25 fps at 1920 x 1080 (50 Hz) 30 fps at 1920 x 1080 (60 Hz)		20 fps at 2592 x 1520 24 fps at 2560 x 1440 30 fps at 2048 x 1520	
Audio Compression		G.711			
Audio Support		Two-way Audio (external speaker required)			
<b>Optical Lens</b>					
Day/Night		Yes (with removable IR-cut filter)			
Lens Type		Fixed			
Focal Length	MFD2700-0F	2.8 mm		MFD4700-0F	2.8 mm
	MFD2700-2F	3.8 mm		MFD4700-2F	3.8 mm
	MFD2700-6F	2.3 mm		MFD4700-6F	2.3 mm
Maximum Aperture	MFD2700-0F	F/2.0		MFD4700-0F	F/2.0
	MFD2700-2F	F/1.8		MFD4700-2F	F/1.8
	MFD2700-6F	F/2.2		MFD4700-6F	F/2.2
Mount		M12, Pitch 0.5 mm			
Image Format		1/2.7"			
Horizontal FOV	MFD2700-0F	100°		MFD4700-0F	96°
	MFD2700-2F	72°		MFD4700-2F	72°
	MFD2700-6F	140°		MFD4700-6F	129°
Operation	Focus / Zoom / Iris	Fixed			
<b>Mechanical</b>					
Camera Angle Adjustment	Pan	-45° ~ 45°			
	Tilt	0° ~ 70°			
	Rotate	0° ~ 360°			
Temperature Detector		Yes			
Connectors	Power	2-pin terminal block, PoE			
	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector			
	Audio	1 In (built-in or external microphone) 1 Out (3.5 mm stereo jack)			
	USB	GV-WiFi adapter or USB hard drive			
Local Storage		microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported			
IR LED Quantity		4 IR LEDs			
Max. IR Distance		20 m (65 ft)			
<b>General</b>					
Environment Temperature		0 °C ~ 50 °C (32 °F ~ 122 °F)			
Humidity		10% to 90% (no condensation)			
Power Source		12V DC / PoE (IEEE 802.3af)			
Max. Power Consumption		6.5 W		7.5 W	
Certification		CE, FCC, RCM, LVD, RoHS compliant			
Dimensions		ø 110 x 72.83 mm (ø 4.33" x 2.86")			
Weight		200 g (0.44 lb)			

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






## Mini Fixed Dome (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
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, 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		microSD 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
Certification		FCC, CE, RoHS, UL compliant
Dimensions		∅ 108.6 x 61.8mm (∅4.28" x 2.43")
Weight		0.22 kg (0.49 lb)

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




## Target Series (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	microSD 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>Certification</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: 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 (Part 2)

		GV-ABL2701 Series	GV-ABL2703	GV-TBL2703
				
<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
<b>Picture Elements</b>		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)	
	<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)
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual	Auto / Manual
<b>S/N Ratio</b>		52 dB	52 dB	52 dB
<b>WDR</b>		Yes	Yes	Yes
<b>Dynamic Range</b>		Up to 72 dB	Up to 72 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
<b>Video Streaming</b>		Triple streams	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	N/A	N/A
<b>Audio Support</b>		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)
<b>Lens Type</b>		Fixed	Fixed	Fixed
<b>Focal Length</b>		0F / 1F      4 mm / 6 mm	0F / 1F      4 mm / 6 mm	4 mm / 6 mm
<b>Maximum Aperture</b>		0F / 1F      F/1.8	0F / 1F      F/2.0	F/2.0
<b>Mount</b>		M12	M12	M12
<b>Image Format</b>		0F / 1F      1/2.7"	0F / 1F      1/2.7"	1/2.7"
<b>Horizontal FOV</b>		0F      90°	0F      86°	86°
		1F      55°	1F      55°	55°
<b>Operation</b>	<b>Focus</b>	Fixed	Fixed	Fixed
	<b>Zoom</b>			
	<b>Iris</b>			
<b>IR LED Quantity</b>		1 IR LED	1 IR LED	1 IR LED
<b>Max. IR Distance</b>		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°
	<b>Tilt</b>	0° ~ 90°	0° ~ 90°	0° ~ 90°
	<b>Rotate</b>	0° ~ 360°	0° ~ 360°	0° ~ 360°
<b>Connectors</b>	<b>Power</b>	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
	<b>Audio</b>	N/A	N/A	N/A
	<b>Digital I/O</b>	N/A	N/A	N/A
	<b>Local Storage</b>	N/A	N/A	N/A
	<b>TV Out</b>	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)
	<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 (IEEE 802.3af)	
<b>Max. Power Consumption</b>		5 W	4.5 W	
<b>Certification</b>		FCC, CE, RoHS compliant		FCC, CE, RoHS, UL 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")	
<b>Weight</b>		0.25 kg (0.55 lb)	0.37 kg (0.81 lb)	
<b>Ingress Protection</b>		IP66	IP67	
<b>Vandal Resistance</b>		N/A	N/A	

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






## Target Series (Part 3)

		GV-TBL2705	GV-TBL2706	GV-ABL2702	GV-TBL2718
					
<b>Camera</b>					
<b>Image Sensor</b>		1/2.7" progressive scan low lux CMOS	1/2.7" progressive scan CMOS	1/2.8" progressive scan low lux CMOS	1/2.7" progressive scan 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)
<b>Minimum Illumination</b>	<b>Color</b>	0.01 Lux (F2.0, AGC ON)	0.01 Lux (F2.0, AGC ON)	0.002 Lux (F1.6, AGC ON)	0.003 Lux (F1.6, AGC ON)
	<b>B/W</b>	N/A	N/A	N/A	N/A
	<b>IR ON</b>	0 Lux	0 Lux	0 Lux	0 Lux
<b>Shutter Speed</b>		Auto / Manual (1 ~ 1/100,000 sec)	Auto / Manual (1 ~ 1/100,000 sec)	Auto / Manual (1/6 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100,000 sec)
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>S/N Ratio</b>		52 dB	52 dB	52 dB	52 dB
<b>WDR</b>		Yes	Yes	WDR Pro	WDR Pro
<b>Dynamic Range</b>		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.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
<b>Video Streaming</b>		Dual streams	Dual streams	Triple streams	Dual streams
<b>Frame Rate</b>		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>		G.711	G.711	G.711	G.711
<b>Audio Support</b>		One-way Audio	One-way Audio	Two-way Audio (external microphone and speaker required)	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)
<b>Lens Type</b>		Fixed	2F 4F Fixed	Varifocal	Motorized Varifocal
<b>Focal Length</b>		4 mm	2F 4F 2.8 mm 4 mm	2.8 ~ 12 mm	2.8 ~ 12 mm
<b>Maximum Aperture</b>		F/2.0	2F 4F F/2.0	F/1.6	F/1.6
<b>Mount</b>		M12	Ø 12 mm	Ø 14 mm	Ø 12 mm
<b>Image Format</b>		1/2.7"	1/2.7"	1/2.8"	1/2.7"
<b>Horizontal FOV</b>		91.2°	2F 4F 112.9° 91.2°	92° ~ 34°	103.6° ~ 33.4°
<b>Operation</b>	<b>Focus</b>			Manual (with lock)	Auto / Manual
	<b>Zoom</b>	Fixed	Fixed	Manual (with lock)	4.3x Optical Zoom
	<b>Iris</b>			Fixed	Fixed
<b>IR LED Quantity</b>		1 IR LED	1 IR LED	3 IR LEDs	3 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	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°	0° ~ 360°	0° ~ 360°	0° ~ 360°
	<b>Tilt</b>	0° ~ 90°	0° ~ 90°	0° ~ 120°	0° ~ 90°
	<b>Rotate</b>	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
	<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
	<b>Audio</b>	1 In (built-in microphone)	1 In (built-in microphone)	1 In (Audio In Wire) 1 Out (Audio Out Wire)	1 In (built-in microphone)
	<b>Digital I/O</b>	N/A	N/A	4-pin terminal block, pitch 3.5 mm (0.14")	N/A
	<b>Local Storage</b>	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported.	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported.	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported.	microSD 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
<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)	-35°C ~ 60°C (-31°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
	<b>Operation</b>				
<b>Humidity</b>		10% ~ 90% (no condensation)	0% ~ 95% (no condensation)	0% ~ 95% (no condensation)	0% ~ 95% (no condensation)
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)	1.24A 12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)	12V DC, 1.25A / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		6.0 W	7.0 W	9 W	9.6 W
<b>Certification</b>		FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant
<b>Dimensions (L X W X H)</b>		162 x 69 x 69 mm (6.4" x 2.7" x 2.7")	161.9 x 68.7 x 68.5 mm (6.4" x 2.7" x 2.7")	244 x 96 x 74 mm (9.6" x 3.8" x 2.9")	206 x 73 x 73 mm (8.1" x 2.9" x 2.9")
<b>Weight</b>		0.45 kg (0.99 lb)	0.39 kg (0.86 lb)	0.58 kg (1.28 lb)	0.51 kg (1.12 lb)
<b>Ingress Protection</b>		IP67	IP67	IP67	IP67
<b>Vandal Resistance</b>		N/A	N/A	IK10 for metal casing	N/A

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




## Target Series (Part 4)

		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>	0.02 Lux (F1.8, AGC ON)		0.03 Lux (F2.0, AGC ON)		0.003 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	microSD 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)	-30°C ~ 60°C (-22°F ~ 140°F)	-35°C ~ 60°C (-31°F ~ 140°F)
	<b>Operation</b>					
<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>Certification</b>		FCC, CE, RoHS, UL compliant	FCC, CE, RoHS compliant	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL 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)	1 kg (2.2 lb)
<b>Ingress Protection</b>		IP66	IP67		IP67	IP67
<b>Vandal Resistance</b>		N/A	N/A		N/A	IK10 for metal casing

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




## Target Series (Part 5)

		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>	microSD 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>Certification</b>		FCC, CE, RoHS, UL 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: 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 (Part 6)

		GV-EFD4700 Series	GV-EFD2700 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>	Color	0.03 Lux	0.005 Lux
	B/W	0.02 Lux	0.004 Lux
	IR ON	0 Lux	
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)	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	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 from H.265, H.264 or MJPEG	Dual 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	30 fps at 1920 x 1080
<b>Audio Compression</b>		G.711	
<b>Audio Support</b>		One-way Audio	
<b>Optical Lens</b>			
<b>Day/Night</b>		Yes (with removable IR-cut filter)	
<b>Lens Type</b>		Fixed	
<b>Focal Length</b>	GV-EFD4700-0F / EFD2700-0F	2.8 mm	
	GV-EFD4700-2F / EFD2700-2F	3.8 mm	
<b>Maximum Aperture</b>	GV-EFD4700-0F / EFD2700-0F	F/2.0	
	GV-EFD4700-2F / EFD2700-2F	F/1.8	
<b>Mount</b>		M12, Pitch 0.5 mm	
<b>Image Format</b>		1/2.7"	
<b>Horizontal FOV</b>	GV-EFD4700-0F	96°	100°
	GV-EFD4700-2F	72°	73°
<b>Operation</b>	Focus	Fixed	
	Zoom	Fixed	
	Iris	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>	Pan	-45° ~ 45°	
	Tilt	0° ~ 63°	
<b>Connectors</b>	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	microSD 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>		0°C ~ 45°C (32°F ~ 113°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>Certification</b>		CE, FCC, RCM, LVD, RoHS compliant	
<b>Dimensions (L X W X H)</b>		ø 100 x 60 mm (3.9" x 2.4")	
<b>Weight</b>		148 g (0.33 lb)	
<b>Ingress Protection</b>		N/A	
<b>Vandal Resistance</b>		N/A	

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




## Target Series (Part 7)

		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	microSD 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>Certification</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: 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 (Part 8)

		GV-ADR2701	GV-ADR2702
			
<b>Camera</b>			
<b>Image Sensor</b>		1/2.7" progressive scan low lux CMOS	
<b>Picture Elements</b>		1920 (H) x 1080 (V)	
<b>Minimum Illumination</b>	Color	0.01 Lux (F1.8, AGC ON)	0.02 Lux (F2.0, AGC ON)
	B/W	N/A	
	IR ON	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>		Yes	
<b>Dynamic Range</b>		Up to 72 dB	
<b>Operation</b>			
<b>Video Compression</b>		H.265, H.264, MJPEG	
<b>Video Streaming</b>		Triple streams	
<b>Frame Rate</b>		25 fps at 1920 x 1080	30 fps at 1920 x 1080
<b>Audio Compression</b>		N/A	
<b>Audio Support</b>		N/A	
<b>Digital I/O</b>	Input	N/A	
	Output	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>		2.8 mm	2.8 mm
			4.0 mm
<b>Maximum Aperture</b>		F/1.8	F/2.0
<b>Mount</b>		M12	
<b>Image Format</b>		1/2.7"	
<b>Horizontal FOV</b>		105.2°	110°
			83°
<b>Operation</b>	Focus	Fixed	
	Zoom	Fixed	
	Iris	Fixed	
<b>IR LED Quantity</b>		1 IR LED	
<b>Max. IR Distance</b>		30 m (100 ft)	
<b>Mechanical</b>			
<b>Camera Angle Adjustment</b>	Pan	0° ~ 360°	0° ~ 360°
	Tilt	0° ~ 68°	0° ~ 75°
	Rotate	N/A	
<b>Connectors</b>	Power	DC Jack, PoE	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable	
	Audio	N/A	
	Local Storage	N/A	
<b>LED Indicator</b>		N/A	
<b>General</b>			
<b>Environment Temperature</b>		-30°C ~ 60°C (-22°F ~ 140°F)	
<b>Humidity</b>		0% ~ 95% (no condensation)	
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)	
<b>Max. Power Consumption</b>		5 W	4.5 W
<b>Certification</b>		FCC, CE, RoHS compliant	
<b>Dimensions (L X W X H)</b>		Ø 109 x 81 mm (Ø 4.3" x 3.2")	
<b>Weight</b>		0.3 kg (0.66 lb)	
<b>Ingress Protection</b>		IP66	IP67
<b>Vandal Resistance</b>		N/A	IK10 for metal casing

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




## Target Series (Part 9)

	GV-TDR2702	GV-TDR2700	GV-TDR2704	GV-TDR2705
				
<b>Camera</b>				
Image Sensor	1/2.7" progressive scan low lux CMOS	1/2.8" progressive scan low lux CMOS	1/2.7" progressive scan low lux CMOS	1/2.7" progressive scan CMOS
Picture Elements	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Minimum Illumination	Color	0.02 Lux (F2.0, AGC ON)	0.001 Lux (F1.6, AGC ON)	0.01 Lux (F2.0, AGC ON)
	B/W	N/A	N/A	N/A
	IR ON	0 Lux	0 Lux	0 Lux
Shutter Speed	Auto / Manual (1/6 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)
White Balance	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
Gain Control	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
S/N Ratio	52 dB	52 dB	52 dB	52 dB
WDR	Yes	WDR Pro	WDR Pro	WDR Pro
Dynamic Range	Up to 72 dB	Up to 120 dB	Up to 120 dB	Up to 120 dB
<b>Operation</b>				
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Video Streaming	Triple streams	Triple streams	Dual streams	Dual streams
Frame Rate	30 fps at 1920 x 1080	30 fps at 1920 x 1080	30 fps at 1920 x 1080	30 fps at 1920 x 1080
Audio Compression	N/A	G.711	N/A	G.711
Audio Support	N/A	Two-way Audio (external microphone and speaker required)	N/A	One-way audio
Digital I/O	Input	N/A	1 input (dry contact, NO / NC)	N/A
	Output	N/A	1 relay output (1A 30V DC / 0.3A 125V AC)	N/A
<b>Optical Lens</b>				
Day/Night	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Lens Type	Fixed	Fixed	Fixed	Fixed
Focal Length	0F	2.8 mm	0F	2.8 mm
	1F	4.0 mm	1F	4.0 mm
Maximum Aperture	F/1.6	F/2.0	F/2.0	F/2.0
Mount	M12	M12	M12	Ø 12 mm
Image Format	1/2.7"	1/2.8"	1/2.7"	1/2.7"
Horizontal FOV	0F	110°	0F	111°
	1F	83°	1F	81°
Operation	Focus	Fixed	Fixed	Fixed
	Zoom	Fixed	Fixed	Fixed
	Iris	Fixed	Fixed	Fixed
IR LED Quantity	1 IR LED	1 IR LED	1 IR LED	1 IR LED
Max. IR Distance	30 m (100 ft)	30 m (100 ft)	30 m (100 ft)	30 m (100 ft)
<b>Mechanical</b>				
Camera Angle Adjustment	Pan	0° ~ 360°	0° ~ 360°	0° ~ 360°
	Tilt	0° ~ 75°	0° ~ 75°	0° ~ 68°
	Rotate	N/A	0° ~ 360°	0° ~ 360°
Connectors	Power	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable	Ethernet (10/100 Base-T), RJ-45 cable	Ethernet (10/100 Base-T), RJ-45 cable
	Audio	N/A	2 In (Audio In Wire) 1 Out (Audio Out Wire)	N/A
	Local Storage	N/A	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.
LED Indicator	N/A	N/A	N/A	N/A
<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)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Humidity	0% ~ 95% (no condensation)	0% ~ 95% (no condensation)	10% ~ 90% (no condensation)	0% ~ 95% (no condensation)
Power Source	12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE802.3af)	1.25A 12V DC / PoE (IEEE802.3af)
Max. Power Consumption	4.5 W	4 W	5.0 W	5.0 W
Certification	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant
Dimensions (L X W X H)	Ø 109 x 81 mm (Ø 4.3" x 3.2")	Ø 109 x 81 mm (Ø 4.3" x 3.2")	Ø 108.7 x 81.1 mm (Ø 4.3" x 3.2")	Ø 109 x 83 mm (Ø 4.3" x 3.3")
Weight	0.3 kg (0.66 lb)	0.45 kg (0.99 lb)	0.36 kg (0.79 lb)	0.36 kg (0.79 lb)
Ingress Protection	IP67	IP67	IP67	IP67
Vandal Resistance	IK10 for metal casing	IK10 for metal casing	IK10 for metal casing	IK10 for metal casing

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






## Target Series (Part 10)

		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)								
Minimum Illumination		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)	
Color								
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								
Video Streaming Triple streams								
Frame Rate		20 fps at 2592 x 1520 25 fps at 2560 x 1440 30 fps at 2048 x 1520	20 fps at 2592 x 1520		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		1 Input (dry contact, NO / NC) 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	
Input								
Output								
<b>Optical Lens</b>								
Day/Night Yes (with removable IR-cut filter)								
Lens Type 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		F/2.0	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		Fixed						
Focus								
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° ~ 360°		3° ~ 360°				
Tilt		0° ~ 75°	0° ~ 68°	0° ~ 75°		0° ~ 90°	0° ~ 68°	
Rotate		0° ~ 360°		N/A		0° ~ 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) microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.	N/A		1 In (Audio In Wire) 1 Out (Audio Out Wire)		N/A	
Local Storage		N/A				microSD 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)								
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		
Certification		FCC, CE, RoHS, UL compliant	FCC, CE, RoHS compliant	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS compliant	FCC, CE, RoHS, UL 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 (Ø 4.3" x 3.2")		
Weight		0.3 kg (0.66 lb)				0.45 kg (0.99 lb)		
Ingress Protection		IP66				IP67		
Vandal Resistance		IK10 for metal casing						

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





## Target Series (Part 11)

		GV-EBD2702	GV-EBD2704	GV-EBD2705
				
<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 CMOS
<b>Picture Elements</b>		1920 (H) x 1080 (V)	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)	0.01 Lux (F2.0, 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 s)	Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual	Auto / Manual
<b>S/N Ratio</b>		52 dB	52 dB	52 dB
<b>WDR</b>		Yes	Yes	Yes
<b>Dynamic Range</b>		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
<b>Video Streaming</b>		Triple streams	Dual streams	Dual streams
<b>Frame Rate</b>		30 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	G.711
<b>Audio Support</b>		N/A	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)
<b>Lens Type</b>		Fixed	Fixed	Fixed
<b>Focal Length</b>		2.8 mm	2.8 mm	2.8 mm
<b>Maximum Aperture</b>		F/1.4	F/2.0	F/2.0
<b>Mount</b>		M12	M12	Ø 12 mm
<b>Image Format</b>		1/2.7"	1/2.7"	1/2.7"
<b>Horizontal FOV</b>		109.9°	113°	112.9°
<b>Operation</b>	<b>Focus</b>	Fixed	Fixed	Fixed
	<b>Zoom</b>			
	<b>Iris</b>			
<b>IR LED Quantity</b>		1 IR LED	1 IR LED	1 IR LED
<b>Max. IR Distance</b>		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°
	<b>Tilt</b>	0° ~ 90°	0° ~ 90°	0° ~ 80°
	<b>Rotate</b>	0° ~ 360°	0° ~ 360°	0° ~ 360°
<b>3-axis Mechanism</b>		Yes	Yes	Yes
<b>Connectors</b>	<b>Power</b>	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)
	<b>Audio</b>	N/A	1 In (built-in microphone)	1 In (built-in microphone)
	<b>TV-Out</b>	N/A	N/A	N/A
	<b>Local Storage</b>	N/A	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	microSD 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
<b>Temperature Detector</b>		N/A	N/A	N/A
<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)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
	<b>Operation</b>			
<b>Humidity</b>		0% ~ 95% (no condensation)	10% ~ 90% (no condensation)	0% ~ 95% (no condensation)
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE802.3af)	1.25A 12V DC / PoE (IEEE802.3af)
<b>Max. Power Consumption</b>		5.5 W	7.0 W	7.0 W
<b>Certification</b>		CE, FCC, RoHS compliant	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant
<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 92.7 mm (Ø 5.0" x 3.6")
<b>Weight</b>		0.33 kg (0.73 lb)	0.45 kg (0.99 lb)	0.45 kg (0.99 lb)
<b>Ingress Protection</b>		IP67	IP67	IP67
<b>Vandal Resistance</b>		N/A	N/A	N/A

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





## Target Series (Part 12)

		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>		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>Color</b>		N/A	N/A	N/A	N/A	N/A	
<b>B/W</b>		0 Lux	0 Lux	0 Lux	0 Lux	0 Lux	
<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>							
<b>Zoom</b>							
<b>Iris</b>							
<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>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	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.	microSD card slot (SD/SDHC/SDXC/UHS-I, class 10) *UHS-II card type is not supported.	microSD 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</b>							
<b>Start-up Temperature</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 Temperature</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>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)					
<b>Max. Power Consumption</b>		5.5 W	5.5 W	6 W	8.16 W	8.16 W	
<b>Certification</b>		CE, FCC, RoHS, UL compliant	CE, FCC, RoHS, UL compliant	CE, FCC, RoHS, UL compliant	CE, FCC, RoHS compliant	CE, FCC, RoHS, UL compliant	
<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: 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 (Part 13)

		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	microSD 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>	-35°C ~ 60°C (-31°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)
	<b>Operation</b>		
<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>Certification</b>		CE, FCC, RoHS, UL compliant	CE, FCC, RoHS, UL 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: 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 (Part 14)


		<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 Temperature	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
Certification		CE, FCC, RCM, RoHS compliant
Dimensions (L X W X H)		Ø 125 x 99.5 mm (4.92" x 3.92")
Weight		470 g (1.04 lb)
Ingress Protection		N/A

**Note:**

- The TV-Out function only works in 640x480 resolution. For TV-Out to work properly, you must set the resolution to 1280x1024 or lower. If both streams are enabled, the Sub Stream must be set to 640x480.
- 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 (Part 15)




		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
Certification		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.
- 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 (Part 16)


		GV-AVD2700	GV-TVD2712	GV-TVD4700	GV-TVD4711	GV-AVD4710	GV-TVD4710
							
<b>Camera</b>							
<b>Image Sensor</b>		1/2.8" progressive scan low lux CMOS	1/2.7" progressive scan low lux CMOS	1/3" progressive scan super low lux CMOS			
<b>Picture Elements</b>		1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	2592(H) x 1520 (V)	2688 (H) x 1520 (V)	2592 (H) x 1520 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.001 Lux (F1.6, AGC ON)	0.003 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)	
	<b>B/W</b>	N/A					
	<b>IR ON</b>	0 Lux					
<b>Shutter Speed</b>		Auto / Manual (1/6 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100,000 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	52 dB	52 dB	56 dB	55 dB	56dB
<b>WDR Pro</b>		Yes					
<b>Dynamic Range</b>		Up to 120 dB	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	Dual streams	Triple streams			
<b>Frame Rate</b>		30 fps at 1920 x 1080	30 fps at 1920 x 1080, 1280 x 720	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	
<b>Audio Compression</b>		G.711	G.711	N/A	G.711	G.711	
<b>Audio Support</b>		Two-way Audio (external microphone and speaker required)	One-way Audio	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	Varifocal	Motorized varifocal		
<b>Focal Length</b>		2.8 ~ 12 mm	2.8 ~ 12 mm	2.8 ~ 12 mm			
<b>Maximum Aperture</b>		F/1.6	F/1.6	F/1.6	F/1.4		
<b>Mount</b>		Ø 14 mm	Ø 14 mm	Ø 14 mm			
<b>Image Format</b>		1/2.8"	1/2.7"	1/3"		1/3"	
<b>Horizontal FOV</b>		108° ~ 30°	103.6° ~ 33.4°	97° ~ 29°	98° ~ 31°	91° ~ 27°	
<b>Operation</b>	<b>Focus</b>	Manual (with lock)	Automatic / Manual	Manual (with lock)			Auto / Manual
	<b>Zoom</b>	Manual (with lock)	4.3x Optical Zoom	Manual (with lock)	4.3x Optical Zoom	4.3x Optical Zoom	
	<b>Iris</b>	Fixed	Fixed	Fixed			
<b>IR LED Quantity</b>		2 IR LEDs	2 IR LEDs	2 IR LEDs			
<b>Max. IR Distance</b>		30 m (100 ft)	40 m (130 ft)	30 m (100 ft)			
<b>Mechanical</b>							
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	3° ~ 360°	0° ~ 360°			0° ~ 360°
	<b>Tilt</b>	0° ~ 80°	0° ~ 70°	0° ~ 80°			0° ~ 80°
	<b>Rotate</b>	0° ~ 360°	3° ~ 360°	0° ~ 360°			0° ~ 360°
<b>3-axis Mechanism</b>		Yes					
<b>Pigtail-Free</b>		No	No	No	Yes	No	
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE	2-pin terminal block, 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)	Built-in microphone	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	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	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>		microSD 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 Operation</b>	-40°C ~ 60°C (-40°F ~ 140°F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-40°C ~ 60°C (-40°F ~ 140°F)	-35~ 60°C (-31 ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)	
<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	8.0 W	7 W	8.7 W	7.2 W	
<b>Certification</b>		CE, FCC, RoHS, UL compliant	FCC, CE, RoHS, UL compliant	CE, FCC, RoHS, UL 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 128 x 100 mm (Ø 5.0" x 3.9")	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)	0.66 kg (1.46 lb)	0.92 kg (2 lb)			0.75 kg (1.7 lb)
<b>Ingress Protection</b>		IP67	IP67	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.
- 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 (Part 17)


		GV-AVD8710	GV-TVD8710
			
<b>Camera</b>			
Image Sensor		1/2" progressive scan super low lux CMOS	
Picture Elements		3840 (H) x 2160 (V)	
Minimum Illumination	Color	0.003 Lux (F1.5, AGC ON)	
	B/W	N/A	
	IR ON	0 Lux	
Shutter Speed		Auto / Manual (1/6 ~ 1/100000 sec)	
White Balance		Auto / Manual	
Gain Control		Auto / Manual	
S/N Ratio		52 dB	
WDR Pro (with WDR sensor)		Yes	
Dynamic Range		Up to 120 dB	
<b>Operation</b>			
Video Compression		H.265, H.264, MJPEG	
Video Streaming		Triple streams	
Frame Rate		20 fps at 3840 x 2160, 30 fps at 2944 x 1656 / 2592 x 1944 / 2560 x 1440	
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		Motorized varifocal	
Focal Length		2.8 ~ 12 mm	
Maximum Aperture		F/1.5	
Mount		Ø 14 mm	
Image Format		1/2"	
Horizontal FOV		114.8° ~ 47.3°	
Operation	Focus	Auto / Manual	
	Zoom	4.3x Optical Zoom	
	Iris	Fixed	
IR LED Quantity		2 IR LEDs	
Max. IR Distance		30 m (100 ft)	
<b>Mechanical</b>			
Camera Angle Adjustment	Pan	0° ~ 360°	
	Tilt	0° ~ 80°	
	Rotate	0° ~ 360°	
3-axis Mechanism		Yes	
Pigtail-Free		No	
Connectors	Power	DC Jack, PoE	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable	
	Audio	1 in (Audio In Wire), 1 out (Audio Out Wire)	
	TV-Out	BNC connector (640 x 480 resolution)	
	Digital I/O	4-pin terminal block, pitch 3.5 mm/0.14"	
Local Storage		microSD card slot (SD/SDHC/SDXC/UHS-I, class 10) *UHS-II card type is not supported.	
<b>General</b>			
Environment	Start-up	-40°C ~ 60°C (-40°F ~ 140°F)	
	Operation		
Humidity		0 ~ 95% (no condensation)	
Power Source		12V DC / PoE (IEEE 802.3af)	
Max. Power Consumption		8 W	
Certification		CE, FCC, RoHS, UL compliant	
Dimensions (L X W X H)		Ø 148 x 111.3 mm (5.8" x 4.4")	
Weight		0.75 kg (1.7 lb)	
Ingress Protection		IP67	
Vandal Resistance		IK10 for metal casing	

**Note:**

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






## Target Series (Part 18)

		GV-EFER3700	GV-EFER3700-W
			
<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	microSD 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
Certification		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: 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 (Part 1)

		GV-FER5701	GV-FER12203	GV-FER5702
				
<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)		
<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 (200 mA 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>Lens Type</b>		Fixed	Fixed	Fixed
<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>FOV</b>	<b>Horizontal</b>	180°	180°	180°
	<b>Vertical</b>	N/A	N/A	360°
	<b>Diagonal</b>	N/A	N/A	360°
<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>Network Interface</b>		10/100 Ethernet	10/100/1000 Ethernet	10/100 Ethernet
<b>Connectors</b>	<b>Power</b>	2-pin terminal block	2-pin terminal block	DC Jack
	<b>Ethernet</b>	RJ-45 Connector	RJ-45 Connector	RJ-45 Connector
	<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>	microSD 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 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 802.3at)	12V DC / 24V AC / PoE+ (IEEE 802.3at)	12V DC / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		15 W	28 W	8.5 W
<b>Certification</b>		CE, FCC, LVD, RoHS compliant	CE, FCC, RCM, LVD, RoHS compliant	CE, FCC, RoHS, UL compliant
<b>Dimensions</b>		Ø 160.59 x 59.06 mm (6.22" x 2.32")	Ø 160.59 x 59.06 mm (6.22" x 2.32")	Ø 125x 44 mm (Ø 4.9" x 1.7")
<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: 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 (Part 2)

		GV-FER12700	GV-QFER12700	GV-RFER12700
				
<b>Image Sensor</b>		1/1.7" progressive scan CMOS	1/1.7" progressive scan CMOS	1/2.3" progressive scan CMOS
<b>Picture Elements</b>		4000 (H) x 3000 (V)	4000 (H) x 3000 (V)	3840 (H) x 3000 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.1 Lux	0.1 Lux	0.01 Lux (F1.6, AGC ON)
	<b>B/W</b>	0.05 Lux	0.01 Lux	N/A
	<b>IR On</b>	0 Lux	0 Lux	0 Lux
<b>Shutter Speed</b>		Auto / Manual (1/5 ~ 1/16000 sec)	Auto / Manual (1/5 ~ 1/10000 sec)	Auto / Manual (1 ~ 1/30000 sec)
<b>White Balance</b>		Auto / Manual (2800K ~ 8500K)	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Automatic	Automatic	Automatic, Manual
<b>S/N Ratio</b>		52 dB	52 dB	39.5 dB
<b>WDR Pro (with WDR Sensor)</b>		WDR	WDR	WDR
<b>Dynamic Range</b>		Up to 72 dB	Up to 77 dB	N/A
<b>Video Compression</b>		H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264
<b>Video Streaming</b>		Triple streams from H.265, H.264 or MJPEG	Quad streams from H.265, H.264 or MJPEG	Triple streams from H.265 & H.264
<b>Frame Rate</b>		25/30 fps at 4000 x 3000 and 3160 x 3000	20 fps at 4000 x 3000 (50/60 Hz)	25 fps at 3000 x 3000, 2560 x 2560, 2160 x 2160, 1520 x 1520, 1088 x 1088, 720 x 720, 480 x 480 (50 & 60 Hz)  15 fps at 3840 x 3000, 1280 x 960, 640 x 480 (50 & 60 Hz)
<b>Audio Compression</b>		G.711	G.711	G.711
<b>Audio Support</b>		Two-way audio (external microphone and speaker required)	Two-way audio (external microphone and speaker required)	Two-way audio
<b>Sensor Input</b>		1 input (dry contact, NO / NC)	1 input (dry contact, NO / NC)	1 input (dry contact, NO / NC)
<b>Alarm Output</b>		1 digital output (200 mA 5V DC)	1 output	1 relay output (2A 30V DC / 0.5A 125V AC)
<b>Day/Night</b>		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
<b>Focal Length</b>		1.2 mm	1.65 mm	1.6 mm
<b>Maximum Aperture</b>		F/2.2	F/2.8	F/2
<b>Mount</b>		M12	M12	M12
<b>FOV</b>	<b>Horizontal</b>	180°	180°	180°
	<b>Vertical</b>	N/A	N/A	N/A
	<b>Diagonal</b>	N/A	N/A	N/A
<b>Operation</b>	<b>Focus</b>	Fixed	Fixed	Fixed
	<b>Iris</b>			
	<b>Zoom</b>			
<b>IR LED Quantity</b>		6 IR LEDs	4 IR LEDs	3 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	10 m (35 ft)	10 m (35 ft)
<b>Temperature Detector</b>		Yes	Yes	N/A
<b>Network Interface</b>		10/100/1000 Ethernet	10/100/1000 Ethernet	10/100 Ethernet
<b>Connectors</b>	<b>Power</b>	2-pin terminal block	DC jack	DC jack
	<b>Ethernet</b>	RJ-45 Connector	RJ-45 Connector	RJ-45 Connector
	<b>Audio</b>	1 in (built-in or external microphone) 1 out (stereo jack, 3.5 mm or 0.14 in)	1 in (external microphone with power supply) 1 out (3.5 mm stereo jack)	1 in (built-in microphone) 1 out (built-in speaker)
	<b>Digital I/O</b>	3-pin terminal block, pitch 2.5 mm or 0.1 in	4-pin terminal block	4-pin terminal block pitch 3.5 mm or 0.14 in
	<b>Local Storage</b>	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported Support recording to NAS	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported Support recording to NAS	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10), up to 256 GB *UHS-II card type is not supported.
<b>Environment Temperature</b>	<b>Start-Up</b>	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 70°C (-4°F ~ 158°F)	-35°C ~ 60°C (-31°F ~ 140°F)
	<b>Operation</b>	-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)	0% ~ 90% (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>		17 W	12.95 W	9.6 W
<b>Certification</b>		CE, FCC, LVD, RoHS compliant	CE, FCC, RoHS compliant	CE, FCC, RoHS compliant
<b>Dimensions</b>		∅ 160.59 x 59.40 mm (∅ 6.22 x 2.33 in)	∅ 130 x 57.8 mm (∅ 5.12 x 2.28 in)	∅ 120 x 55 mm (∅ 4.7 x 2.1 in)
<b>Weight</b>		700 g (1.54 lb)	565 g (1.25 lb)	400 g (0.88 lb)
<b>Ingress Protection</b>		IP67	IP66	IP66
<b>Vandal Resistance</b>		IK10+ for metal casing	IK10	N/A

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







## Fisheye Camera (Part 3)

		GV-GFER6900	GV-GFER12800	GV-PFER12800
				
<b>Image Sensor</b>		1/2.5" progressive scan CMOS	1/1.7" progressive scan CMOS	1/1.7" progressive scan CMOS
<b>Picture Elements</b>		3200 (H) x 1800 (V)	4000 (H) x 3000 (V)	4000 (H) x 3000 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.01 Lux (F2.0, AGC ON)	0.01 Lux (F2.0, AGC ON)	0.05 Lux
	<b>B/W</b>	0 Lux	0 Lux	N/A
	<b>IR On</b>	0.1 Lux	0 Lux	0 Lux
<b>Shutter Speed</b>		Auto / Manual (1/3 ~ 1/100000 sec)	Auto / Manual (1/3 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual	Automatic
<b>S/N Ratio</b>		50 dB	50 dB	55 dB
<b>WDR Pro (with WDR Sensor)</b>		Yes	Yes	Yes
<b>Dynamic Range</b>		Up to 120 dB	Up to 90 dB	Up to 120 dB
<b>Video Compression</b>		H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.264
<b>Video Streaming</b>		Triple streams from H.265, H.264, or MJPEG	Triple streams from H.265, H.264, or MJPEG	Dual streams from H.265 or H.264
<b>Frame Rate</b>		Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 3200 x 1800, 2160 x 2160, 1920 x 1080, 1440 x 1440, 1280 x 720, 1080 x 1080, 960 x 960, 720 x 720, 640 x 640, 640 x 360, 480 x 480, 360 x 360 Max. 20 fps (50 & 60 Hz) at 2560 x 1440	Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 3000 x 3000, 2160 x 2160, 1440 x 1440, 1080 x 1080, 960 x 960, 720 x 720, 640 x 640, 480 x 480, 360 x 360 Max. 20 fps (50 & 60 Hz) / 10 fps (50 & 60 Hz) at 4000 x 3000, 3840 x 2160, 3200 x 1800, 2560 x 1440, 1920 x 1080, 1280 x 720, 960 x 540, 640 x 480, 640 x 360 Max. 15 fps (50 & 60 Hz) at 3000 x 3000, 2160 x 2160, 1440 x 1440, 1280 x 720, 1080 x 1080, 960 x 960, 960 x 540, 720 x 720, 640 x 640, 480 x 480, 360 x 360	Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 3000 x 3000, 2560 x 2560, 1920 x 1920, 1280 x 1280, 1280 x 960, 1024 x 1024, 736 x 736, 576 x 576
<b>Audio Compression</b>		G.711	G.711	G.711
<b>Audio Support</b>		Two-way audio (external speaker required)	Two-way audio (external speaker required)	Two-way audio (external speaker required)
<b>Sensor Input</b>		1 input (dry contact, NO / NC)	1 input, dry contact, NO / NC	1 Input (dry contact, NO / NC)
<b>Alarm Output</b>		1 relay output (DC 30V, 1A / AC 125V, 0.3A)	1 relay output (DC 30V, 1A / AC 125V, 0.3A)	1 relay output (1A 30V DC / 0.3A 125V AC)
<b>Day/Night</b>		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
<b>Focal Length</b>		1.65 mm	1.65 mm	1.98 mm
<b>Maximum Aperture</b>		F/2.0	F/2.0	F/2.8
<b>Mount</b>		M12	M12	M12
<b>FOV</b>	<b>Horizontal</b>	180°	180°	180°
	<b>Vertical</b>	180°	180°	N/A
	<b>Diagonal</b>	180°	180°	N/A
<b>Operation</b>	<b>Focus</b>	Fixed	Fixed	Fixed
	<b>Iris</b>			
	<b>Zoom</b>			
<b>IR LED Quantity</b>		4 IR LEDs	4 IR LEDs	6 IR LEDs
<b>Max. IR Distance</b>		20 m (65 ft)	20 m (65 ft)	15 m (50 ft)
<b>Temperature Detector</b>		N/A	N/A	N/A
<b>Network interface</b>		10/100 Ethernet	10/100 Ethernet	10/100/1000 Ethernet
<b>Connectors</b>	<b>Power</b>	DC jack	DC jack	DC jack
	<b>Ethernet</b>	RJ-45 connector	RJ-45 connector	RJ-45 connector
	<b>Audio</b>	1 in (built-in or external microphone) 1 out (audio jack, 3.5 mm or 0.14 in) *The Audio In port only supports microphones with power supply.	1 in (built-in or external microphone) 1 out (audio jack, 3.5 mm or 0.14 in) *The Audio In port only supports microphones with power supply.	1 in (built-in or external microphone) 1 out (4-pin terminal block pitch 3.5 mm or 0.14 in) *The Audio In port only supports microphones with power supply.
	<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm or 0.14 in	4-pin terminal block pitch 3.5 mm (0.14 in)	4-pin terminal block pitch 3.5 mm or 0.14 in
	<b>Local Storage</b>	microSD card slot (SDHC/SDXC/UHS-I, Class 10), up to 256 GB * UHS-II card type is not supported.	microSD card slot (SD / SDHC / SDXC), up to 256 GB	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported Support recording to NAS
	<b>USB</b>	N/A	N/A	N/A
<b>Environment Temperature</b>	<b>Start-Up</b>	N/A	N/A	N/A
	<b>Operation</b>	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)
<b>Humidity</b>		0% ~ 95% (no condensation)	0% ~ 95% (no condensation)	0% ~ 90% (no condensation)
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)	DC 12V / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		10 W	10.5 W	11 W
<b>Certification</b>		CE, FCC, RoHS compliant	CE, FCC, RoHS compliant	CE, FCC, RoHS compliant
<b>Dimensions</b>		∅ 130.6 x 46.3 mm (∅ 5.14 x 1.82 in)	∅ 130.6 x 46.3 mm (∅ 5.14 x 1.82 in)	∅ 140 x 45.4 mm (∅ 5.5 x 1.8 in)
<b>Weight</b>		516.2 g (1.14 lb)	516.2 g (1.14 lb)	700 g (1.54 lb)
<b>Ingress Protection</b>		IP67	IP67	IP67
<b>Vandal Resistance</b>		IK10	IK10	IK10

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







## Speed Dome Camera (Part 1)

Camera		GV-SD2301 V2	GV-SD2411 V2	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 fps at 1920 x 1080 (50 Hz) 30 fps at 1920 x 1080 (60 Hz)	
Audio Compression		G.711			
Audio Support		Two-way Audio (external microphone and speaker required)			
Sensor Input		4 Input (Dry Contact)			
Alarm Output		1 Digital Output (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, 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	
Certification		CE, FCC, RCM, RoHS Compliant			
Dimensions	Camera Body	Ø 211.63 x 232 mm (8.332" x 9.13")		Ø 201.7 x 293.2 mm (7.94" x 11.54")	
Weight		3.1 kg (6.82 lb)		5.6 kg (12.3 lb)	
Ingress Protection		IP67		IP66	
Vandal Resistance		IK10 for metal casing			

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



## Speed Dome Camera (Part 2)




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

**Note:**

- The TV-Out function only works in 640x480 resolution. For TV-Out to work properly, you must set the resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- 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).



### Speed Dome Camera (Part 3)


Camera		GV-QSD5730-Indoor	GV-QSD5731-IR	GV-QSD5730-Outdoor
				
Image Sensor		1/2.8 Progressive scan low lux CMOS sensor		
Picture Elements		2592 (H) x 1944 (V)		
Minimum Illumination	Color	0.02 Lux		
	B/W	0.002 Lux		
	IR ON	N/A	0 Lux	N/A
Shutter Speed		Auto / Manual (1 ~ 1/10000 sec)		
White Balance		Auto / Manual		
AGC Control		N/A	N/A	N/A
S/N Ratio		N/A	N/A	N/A
Optical Zoom		33x		
Digital Zoom		10x		
WDR Pro (with WDR sensor)		Yes		
Dynamic Range		Up to 120 dB		
Video Compression		H.265, H.264 or MJPEG		
Video Streaming		Quad streams from H.265, H.264 or MJPEG		
Frame Rate		30 fps at 2592 x 1944		
Audio Compression		G.711		
Audio Support		Two-way Audio (external microphone and speaker required)		
Sensor Input		4 Inputs (dry contact, NO / NC)		
Alarm Output		2 Relay Outputs (120mA 400V DC / 120mA 250V AC)		
Pan Travel		360° endless		
Tilt Travel		-10° ~ 100°	-20° ~ 100°	-10° ~ 100°
Movement Speed		0.1° ~ 400°/s	0.1° ~ 280°/s	0.1° ~ 400°/s
Presets		256		
Preset Accuracy		0.1°		
Auto Pan		4		
Sequence	Max Number	8		
	Max Presets Allowed	64		
Cruise		8		
Tour		8		
Patrol	Max Number	N/A	N/A	N/A
	Max Actions Allowed	N/A	N/A	N/A
Privacy Mask		20		
Day/Night		Yes (with removable IR Cut Filter)		
Focal Length		4.6 ~ 152 mm		
Maximum Aperture		F/ 1.6		
Operation	Focus	Auto / Manual		
	Zoom	33x		
	Iris	Auto / Manual		
IR LED Quantity		N/A	16	N/A
Max. IR Distance		N/A	150 m (500 ft)	N/A
Temperature Detector		N/A		
Connectors	Power	Terminal Block, PoE	Terminal Block, PoE	Terminal Block, PoE
	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.
Certification		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.
- 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-GPH2800		
				
<b>Camera</b>				
Image Sensor		1/2.8" progressive scan super low lux CMOS		
Picture Elements		1920 (H) x 1080 (V)		
Minimum Illumination	Color	0.05 Lux		
	B/W			
Shutter Speed		Automatic		
White Balance		N/A		
Gain Control		Automatic		
S/N Ratio		52 dB		
WDR		N/A		
WDR Pro		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 1920 x 1080		
Audio Compression		G.711		
Audio Support		Two-way audio capable (external microphone and speaker required)		
Sensor Input		8 inputs (dry contact, NO / NC)		
Alarm Output		4 relay outputs (24V DC / 1A 125V AC)		
<b>Optical Lens</b>				
Day/Night		Yes (Electronic)		
Iris		Fixed		
Focal Length		2.8 mm		
Maximum Aperture		F/2.2		
Mount		M12		
Image Format		1/2.8"		
Horizontal FOV		104°		
Operation	Focus	Fixed		
	Zoom	Fixed		
	Iris	Fixed		
<b>Mechanical</b>				
Temperature Detector		N/A		
Connectors	Power	Main Body	Input: PoE (IEEE 802.3af) / DC 12 V; Output: DC 12 V, 0.5 A	
		Camera	DC 12 V, 1 A (external power supply required)	
	Ethernet	RJ-45 connector		
	Audio	Built-in microphone	No	
		External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)	
		Built-in speaker	No	
		External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)	
* Choose either the built-in or external option for devices with a microphone or speaker. * The Audio In port only supports microphones with a power supply.				
Local Storage	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.			
Camera Unit Connect	N/A			
LED Indicator		N/A		
<b>General</b>				
Environment Temperature		-30 °C ~60 °C (23 °F ~ 122 °F)		
Humidity		0% to 95% (no condensation)		
Power Source		DC 12 V / PoE (IEEE 802.3af)		
Max. Power Consumption		5.5 W		
Certification		CE, FCC, RoHS compliant		
Dimensions	Main Base	108.5 x 87.8 x 28 mm (4.27" x 3.46" x 1.10")		
	Pinhole Unit	31.6 x 30.4 x 30.4 mm (1.24" x 1.20" x 1.20")		
Weight (with rack)		323.8 g (0.71 lb)		

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




## Panoramic PTZ 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: microSD 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>		24V DC / 24V AC / High PoE (PoE++, 40 W)	24V DC / 24V AC / High PoE (PoE++, 53 W)	
<b>Certification</b>		40 W		
<b>Dimensions</b>		57.2 W		
<b>Weight</b>		CE, FCC, RCM, RoHS compliant		
<b>Ingress Protection</b>		Ø 211.63 x 272.00 mm (8.332" x 10.709")	Ø 211 x 277 mm (8.3" x 10.9")	
<b>Vandal Resistance</b>		3.75 kg (8.27 lb)	3.3 kg (7.27 lb)	
<b>IP67</b>		IP67		
<b>IK10 for metal and polycarbonate casing</b>		IK10 for metal casing		

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




## Thermal Camera

		GV-TM0100
		
<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
Certification		CE, FCC, RCM, RoHS compliant
Dimensions		485.5 x 249.48 x 156.99 mm (19.11" x 9.82" x 6.18")
Weight (with rack)		2.75 kg (6.06 lb)

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





## Face Recognition Camera

		GV-VD8700	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	
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, 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	microSD 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	
Certification		CE, FCC, RCM, LVD, RoHS compliant	
Dimensions (L X W X H)		Ø 160 x 108.4 mm (6.2" x 4.27")	Ø 125 x 99.5 mm (4.92" x 3.92")
Weight		1.2 g (2.64 lb)	470 g (1.04 lb)
Ingress Protection		IP66	N/A
Vandal Resistance		IK10	N/A

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




## Face Detection 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>		Manual (w/lock)				
		<b>Zoom</b>		Manual (w/lock)				
		<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>		N/A			0° ~ 350°	
		<b>Tilt</b>					0° ~ 75°	
		<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)				1 In, 1 Out (3.5 mm stereo jack)
		<b>Auto Iris</b>		Yes (with varifocal lens)				Yes (with motorized lens)
		<b>Digital I/O</b>		3-pin terminal block, pitch 2.5 mm/0.1"				I/O wires
		<b>Local Storage</b>		microSD 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)				N/A
<b>Mini USB</b>		GV-WiFi Adapter or USB hard drive				N/A		
<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>Certification</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.
  - 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 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
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	microSD 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 / 24V AC / High PoE (PoE++, 72 W)
Max. Power Consumption		72 W
Certification		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: 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).





## AI Camera (Part 1 – EBD / TBL)

		GV-EBD4813	GV-TBL4810	GV-TBL4807
				
<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 super low lux CMOS
<b>Picture Elements</b>		2688 (H) x 1520 (V)		
<b>Minimum Illumination</b>	<b>Color</b>	0.002 Lux (F1.2, AGC ON)		0.002 Lux (F1.6, AGC ON)
	<b>B/W</b>	N/A		
	<b>IR ON</b>	0 Lux	N/A	
<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		
<b>Frame Rate</b>		30 fps at 2688 x 1520 / 2560 x 1440 / 2304 x 1296		
<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)
<b>Alarm 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)		
<b>Lens Type</b>		Motorized varifocal lens		Fixed
<b>Focal Length</b>		2.7 ~ 13.5 mm	2.7 ~ 13.5 mm	6 mm
<b>Maximum Aperture</b>		F/1.2	F/1.2	F/1.6
<b>Mount</b>		Ø 12 mm	Ø 14 mm	M12
<b>Horizontal FOV</b>		98°~31°	98°~31°	52.1°
<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	4 IR LEDs
<b>Max. IR Distance</b>		40 m (130 ft)	50 m (165 ft)	80 m (260 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		
<b>Sub Stream</b>		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		
<b>Network</b>				
<b>Interface</b>		10/100 Ethernet		
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°		
	<b>Tilt</b>	0° ~ 75°	0° ~ 90°	
	<b>Rotate</b>	0° ~ 360°		
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE		
	<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	2 In (built-in microphone x 2)
	<b>Digital I/O</b>	N/A	4-pin terminal block pitch 3.5 mm (0.14")	I/O wires
	<b>Local Storage</b>	microSD 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 W	8.5 W	7 W
<b>Certification</b>		CE, FCC, RoHS, UL compliant		CE, FCC, LVD, RoHS, UL compliant
<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")	206 x 74 x 74 mm (8.1" x 2.9" x 2.9")
<b>Weight</b>		0.69 kg (1.52 lb)	1.0 kg (2.2 lb)	0.51 kg (1.12 lb)
<b>Ingress Protection</b>		IP67		
<b>Vandal Resistance</b>		IK10 for metal casing		N/A

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






## AI Camera (Part 2 – Full Color)

		GV-BLFC5800	GV-EBFC5800
			
<b>Camera</b>			
<b>Image Sensor</b>		1/2.7" progressive scan super low lux CMOS	
<b>Picture Elements</b>		2880 (H) x 1620 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	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	
<b>Frame Rate</b>		30 fps at 2880 x 1620 / 2560 x 1440 / 2304 x 1296	
<b>Audio Compression</b>		G.711	
<b>Audio Support</b>		Two-way Audio (external microphone and speaker required)	One-way audio
<b>Sensor Input</b>		1 input (dry contact, NO / NC)	N/A
<b>Alarm Output</b>		1 Relay Output (30V DC, 1A / 125V AC, 0.3A)	N/A
<b>Optical Lens</b>			
<b>Day/Night</b>		Yes	
<b>Lens Type</b>		Fixed	
<b>Focal Length</b>		4 mm	2.8 mm
<b>Maximum Aperture</b>		F/1.0	
<b>Mount</b>		M12	
<b>Horizontal FOV</b>		80.2°	102°
<b>Operation</b>	<b>Focus</b>	Fixed	
	<b>Zoom</b>	Fixed	
	<b>Iris</b>	Fixed	
<b>LED Quantity</b>		2 Warm LEDs	
<b>Max. LED Distance</b>		30 m (100 ft)	
<b>Video Resolution</b>			
<b>Main Stream</b>		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, 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	
<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 ~ 90°	0 ~ 80°
	<b>Rotate</b>	0° ~ 360°	3° ~ 360°
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	
	<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 microphone)
	<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm (0.14")	
	<b>Local Storage</b>	microSD 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>		9.0 W	7.5 W
<b>Certification</b>		CE, FCC, RoHS, UL compliant	
<b>Dimensions</b>		246 × 86 × 85 mm (9.7" × 3.4" × 3.3")	∅ 126 × 93 mm (∅ 5" × 3.7")
<b>Weight</b>		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: 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).





## AI Camera (Part 3 – TDR / TFD)

		GV-TDR4803	GV-TDR8805	GV-TFD4800
				
<b>Camera</b>				
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS		1/2.7" 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)
<b>Minimum Illumination</b>	<b>Color</b>	0.003 Lux (F1.6, 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
<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 / 2560 x 1440 / 2304 x 1296	20 fps at 3840 x 2160, 30 fps at 3072 x 1728 / 2560 x 1440 / 1920 x 1080	30 fps at 2688 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920x 1080
<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))
<b>Sensor Input</b>		1 input (dry contact, NO / NC)		
<b>Alarm Output</b>		1 Relay Output (30V DC, 1A / 125V AC, 0.3A)		
<b>Optical Lens</b>				
<b>Day/Night</b>		Yes (with removable IR-cut filter)		
<b>Lens Type</b>		Fixed		
<b>Focal Length</b>		2.8 mm	2.8 mm	2.8 mm
<b>Maximum Aperture</b>		F/1.6		
<b>Mount</b>		M12		
<b>Horizontal FOV</b>		101°	112.9°	101.1°
<b>Operation</b>	<b>Focus</b>	Fixed		
	<b>Zoom</b>	Fixed		
	<b>Iris</b>	Fixed		
<b>IR LED Quantity</b>		1 IR LED		
<b>Max. IR Distance</b>		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	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
<b>Sub Stream</b>		1280 x 720, 720 x 576, 640 x 480, 640 x 360 (Default)	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)
<b>Third Stream (Closed by Default)</b>		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°
	<b>Tilt</b>	0° ~ 68°		-66° ~ 66°
	<b>Rotate</b>	0° ~ 360°	3° ~ 360°	0° ~ 346°
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE		Terminal block, PoE
	<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)
	<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm (0.14")	I/O wires	Terminal block
<b>Local Storage</b>	microSD 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
<b>Certification</b>		FCC, CE, RoHS, UL compliant		CE, FCC, LVD, RoHS, UL 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")
<b>Weight</b>		0.42 kg (0.93 lb)	0.43 kg (0.95 lb)	0.22 kg (0.49 lb)
<b>Ingress Protection</b>		IP67		
<b>Vandal Resistance</b>		IK10 for metal casing		

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






## AI Camera (Part 4 – TVD)

		GV-TVD4810	GV-TVD4811
			
<b>Camera</b>			
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS	1/2.7" progressive scan super low lux CMOS
<b>Picture Elements</b>		2688 (H) x 1520 (V)	2688 (H) x 1520 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.002 Lux (F1.2, AGC ON)	0.002 Lux (F1.2, AGC ON)
	<b>IR ON</b>	0 Lux	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	
<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 / 2560 x 1440 / 2304 x 1296	30 fps at 2688 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920x 1080
<b>Audio Compression</b>		G.711	
<b>Audio Support</b>		Two-way Audio (external microphone and speaker required)	Two-way audio (external 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>		Motorized varifocal lens	
<b>Focal Length</b>		2.7 ~ 13.5mm	
<b>Maximum Aperture</b>		F/1.2	
<b>Mount</b>		Ø 14 mm	
<b>Horizontal FOV</b>		98° ~ 31°	103.58° ~ 31.05°
	<b>Focus</b>	Auto / Manual	
<b>Operation</b>	<b>Zoom</b>	5x Optical Zoom	
	<b>Iris</b>	Fixed	
	<b>IR LED Quantity</b>	2 IR LEDs	
<b>Max. IR Distance</b>		40 m (130 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	
<b>Sub Stream</b>		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	
<b>Network</b>			
<b>Interface</b>		10/100 Ethernet	
<b>Mechanical</b>			
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	0° ~ 356°
	<b>Tilt</b>	0° ~ 80°	0° ~ 70°
	<b>Rotate</b>	0° ~ 360°	0° ~ 356°
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	2-pin terminal block / PoE
	<b>Ethernet</b>	RJ-45	
	<b>Audio</b>	1 In (built-in or external microphone with power supply) 1 Out (Audio Out Wire)	1 In (Built-in microphone or Terminal Block), 1 Out (Terminal Block)
	<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm (0.14")	4-pin terminal block pitch 2.5 mm (0.1")
	<b>Local Storage</b>	microSD 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)	-30°C ~ 60°C (-22°F ~ 140°F)
<b>Humidity</b>		0 ~ 95% (no condensation)	
<b>Power Source</b>		12 V DC / PoE (IEEE 802.3af)	
<b>Max. Power Consumption</b>		7.0 W	6.5 W
<b>Certification</b>		FCC, CE, RoHS, UL compliant	CE, FCC, LVD, RoHS, UL compliant
<b>Dimensions</b>		Ø 148 x 111 mm (Ø 5.8 x 4.4")	Ø 128 x 100 mm (Ø 5.04" x 3.94")
<b>Weight</b>		0.92 kg (2.03 lb)	0.59 kg (1.31 lb)
<b>Ingress Protection</b>		IP67	IP66
<b>Vandal Resistance</b>		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 Camera (Part 5 – TBL / TVD)

		GV-TBL8804	GV-TBL8810	GV-TVD8810
				
<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
<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 (F1.6, AGC ON)	0.003 Lux (F1.6, 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		
<b>Audio Compression</b>		G.711		
<b>Audio Support</b>		Two-way Audio	Two-way Audio (external microphone and speaker required)	Two-way Audio (external speaker required)
<b>Sensor Input</b>		N/A	1 Input (dry contact, NO / NC)	
<b>Alarm Output</b>		N/A	1 Relay Output (30V DC, 1A / 125V AC, 0.3A)	
<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
<b>Maximum Aperture</b>		F/2.0	F/1.6	F/1.6
<b>Mount</b>		M12	Ø 14 mm	Ø 14 mm
<b>Horizontal FOV</b>		86°	29.2° ~ 107.4°	29.2° ~ 107.4°
<b>Operation</b>	<b>Focus</b>	Auto / Manual		
	<b>Zoom</b>	Fixed	4.3x optical zoom	4.3x optical zoom
	<b>Iris</b>		Fixed	Fixed
<b>IR LED Quantity</b>		1 IR LED	3 IR LEDs	2 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	50 m (165 ft)	40 m (130 ft)
<b>White LED Quantity</b>		2 Warm LEDs	N/A	N/A
<b>Max. White Light Distance</b>		20 m (65 ft)	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		
<b>Sub Stream</b>		1920 x 1080, 1280 x 720, 720 x 576, 704 x 288, 640 x 480, 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		
<b>Network</b>				
<b>Interface</b>		10/100 Ethernet		
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0 ~ 360°		
	<b>Tilt</b>	0 ~ 90°	0 ~ 120°	0 ~ 68°
	<b>Rotate</b>	0 ~ 360°		
<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)
	<b>Digital I/O</b>	N/A	4-pin terminal block pitch 3.5 mm (0.14")	
	<b>Local Storage</b>	microSD 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)		
<b>Humidity</b>		0 ~ 95% (no condensation)		
<b>Power Source</b>		12V DC / PoE (IEEE802.3af)		
<b>Max. Power Consumption</b>		10.5 W	9.5 W	5.5 W
<b>Certification</b>		FCC, CE, RoHS, UL 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")
<b>Weight</b>		0.41 kg (0.99 lb)	1.0 kg (2.2 lb)	0.45 kg (0.99 lb)
<b>Ingress Protection</b>		IP67		
<b>Vandal Resistance</b>		N/A	IK10 for metal casing	IK10 for metal casing

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





## AI Camera (Part 6 – PTZ)

		GV-PTZ5810-IR	GV-GPTZ4810
			
<b>Camera</b>			
<b>Image Sensor</b>		1/2.7" progressive scan super low lux CMOS	1/2.7" progressive scan super low lux CMOS
<b>Picture Elements</b>		2880 (H) x 1620 (V)	2688 (H) x 1520 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.003 Lux (F1.2, AGC ON)	0.02 Lux (F1.6, 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 ~ 1/100000 sec)	Auto / Manual (1/30 ~ 1/30000 sec)
<b>White Balance</b>		Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual
<b>S/N Ratio</b>		56 dB	52 dB
<b>WDR</b>		WDR Pro	WDR
<b>Dynamic Range</b>		Up to 120 dB	Up to 108 dB
<b>Operation</b>			
<b>Video Compression</b>		H.265, H.264, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG
<b>Video Streaming</b>		Triple streams	Triple streams
<b>Frame Rate</b>		30 fps at 2880 x 1620 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080	30 fps at 2688 x 1520, 2560 x 1440, 2048 x 1536, 1920 x 1080, 1280 x 960, 1280 x 720, 704 x 480, 640 x 480, 640 x 360, 352 x 240 (60 Hz) 25 fps at 2688 x 1520, 2560 x 1440, 2048 x 1536, 1920 x 1080, 1280 x 960, 1280 x 720, 704 x 576, 640 x 480, 640 x 360, 352 x 288 (50 Hz)
<b>Audio Compression</b>		G.711	G.711
<b>Audio Support</b>		Two-way Audio	Two-way audio (external speaker required)
<b>Sensor Input</b>		1 Input (dry contact, NO / NC)	1 Input (dry contact, NO / NC)
<b>Alarm Output</b>		1 relay output (30V DC, 1A / 125V AC, 0.5A)	1 relay output (30V DC, 1A / 125V AC, 0.3A)
<b>Optical Lens</b>			
<b>Day/Night</b>		Yes (with removable IR-cut filter)	
<b>Lens Type</b>		Motorized varifocal	Motorized varifocal
<b>Focal Length</b>		2.7 ~ 13.5 mm	3.18 ~ 7.42 mm
<b>Maximum Aperture</b>		F/1.2	F/1.6
<b>Mount</b>		N/A	Ø 12 mm
<b>Horizontal FOV</b>		30.6° ~ 106.9°	44.3° ~ 113.6°
<b>Operation</b>	<b>Focus</b>	Auto / Manual	Auto / Manual
	<b>Zoom</b>	5x optical zoom	2.3x optical zoom
	<b>Iris</b>	Fixed	Fixed
<b>IR LED Quantity</b>		2 IR LEDs	4 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	20 m (65 ft)
<b>Video Resolution</b>			
<b>Main Stream</b>		2880 x 1620 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 720 x 576, 640 x 360	2688 x 1520 (Default), 2560 x 1440, 2048 x 1536, 1920 x 1080, 1280 x 960, 1280 x 720 (60 / 50 Hz)
<b>Sub Stream</b>		1280 x 720, 720 x 576, 640 x 480, 640 x 360 (Default)	1280 x 720, 704 x 480, 640 x 480, 640 x 360 (Default), 352 x 240 (60 Hz) 1280 x 720, 704 x 576, 640 x 480, 640 x 360 (Default), 352 x 288 (50 Hz)
<b>Third Stream</b>		720 x 576, 704 x 288, 640 x 360, 352 x 288 (Closed by Default)	1920 x 1080, 1280 x 960, 1280 x 720, 704 x 480, 640 x 480, 352 x 240 (Default) (60Hz) 1920 x 1080, 1280 x 960, 1280 x 720, 704 x 576, 640 x 480, 352 x 288 (Default) (50Hz)
<b>Network</b>			
<b>Interface</b>		10/100 Ethernet	
<b>Mechanical</b>			
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0 ~ 350°	0° ~ 355°
	<b>Tilt</b>	0 ~ 90°	15° ~ 90°
	<b>Rotate</b>	N/A	N/A
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	DC Jack, PoE
	<b>Ethernet</b>	RJ-45	RJ-45
	<b>Audio</b>	Two-way audio (built-in microphone and speaker)	Two-way audio (external speaker required)
	<b>Digital I/O</b>	I/O wires	4-pin terminal block pitch 3.5 (0.14")
	<b>Local Storage</b>	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	microSD card slot (SDHC / SDXC / UHS-I, Class 10) *UHS-II card types are not supported.
<b>General</b>			
<b>Operating Temperature</b>		-10°C ~ 50°C (14°F ~ 122°F)	-30°C ~ 60°C (-22°F ~ 140°F)
<b>Humidity</b>		0 ~ 95% (no condensation)	0 ~ 90% (no condensing)
<b>Power Source</b>		12V DC / PoE+ (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		15 W	12 W
<b>Certification</b>		CE, FCC, RoHS, UL compliant	CE, FCC, RoHS compliant
<b>Dimensions</b>		Ø 129 x 143.6 mm (Ø 5.1" x 5.7")	Ø 116.14 x 75 mm (Ø 4.57" x 2.95")
<b>Weight</b>		0.75 kg (1.65 lb)	0.46 kg (1.02 lb)
<b>Ingress Protection</b>		N/A	IP67
<b>Vandal Resistance</b>		N/A	IK10 for metal casing

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







## AI Camera (Part 7 – EBD)

		GV-EBD8800	GV-EBD8813
			
<b>Camera</b>			
<b>Image Sensor</b>		1/2.7" progressive scan super low lux CMOS	
<b>Picture Elements</b>		3840 (H) x 2160 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.01 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	
<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	
<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
<b>Focal Length</b>		2.8 mm	2.8 ~ 12 mm
<b>Maximum Aperture</b>		F/2.0	F/1.6
<b>Mount</b>		M12	Ø 12 mm
<b>Horizontal FOV</b>		112°	107° ~ 29°
<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)	40 m (130 ft)
<b>Video Resolution</b>			
<b>Main Stream</b>		3840 x 2160 (Default), 3072 x 1728, 2560 x 1440, 1920 x 1080	
<b>Sub Stream</b>		1920 x 1080, 1280 x 720, 720 x 576, 704 x 288, 640 x 480, 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	
<b>Network</b>			
<b>Interface</b>		10/100 Ethernet	
<b>Mechanical</b>			
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	
	<b>Tilt</b>	0 ~ 90°	0 ~ 75°
	<b>Rotate</b>	0° ~ 360°	
<b>Connectors</b>	<b>Power</b>	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>	microSD 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)	
<b>Humidity</b>		0 ~ 95% (no condensation)	
<b>Power Source</b>		12V DC / PoE (IEEE802.3af)	
<b>Max. Power Consumption</b>		6.4 W	8.16 W
<b>Certification</b>		FCC, CE, RoHS, UL compliant	
<b>Dimensions</b>		Ø 126 x 94 mm (Ø5.0 x 3.7")	Ø 129 x 110 mm (Ø 5.1" x 4.3")
<b>Weight</b>		0.45 kg (0.99 lb)	0.67 kg (1.48 lb)
<b>Ingress Protection</b>		IP67	
<b>Vandal Resistance</b>		N/A	IK10 for metal casing

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





## AI Camera (Part 8 – 180° Panoramic)

		GV-PBL8800	GV-PDR8800	GV-EBDP5800	GV-TBLP5800
					
<b>Camera</b>					
<b>Image Sensor</b>		1/2.8" progressive scan super low lux CMOS		1/2.7" progressive scan super low lux CMOS	
<b>Picture Elements</b>		3840 (H) x 2160 (V)		2880 (H) x 1620 (V)	
<b>Minimum Illumination</b>	Color	0.012 Lux (F2.0, AGC ON)		0.01 Lux (F2.0, AGC ON)	
	B/W	N/A		N/A	
	IR ON	0 Lux		0 Lux	
<b>Shutter Speed</b>		Auto / Manual (1 ~ 1/100000 sec)		Auto / Manual (1 ~ 1/100000 sec)	
<b>White Balance</b>		Automatic, Manual		Automatic, Manual	
<b>Gain Control</b>		Automatic, Manual		Automatic, Manual	
<b>S/N Ratio</b>		55 dB		56 dB	
<b>WDR</b>		WDR Pro		WDR Pro	
<b>Dynamic Range</b>		120 dB		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 3840 x 2160, 30 fps at 3456 x 1936 / 3200 x 1800 / 2880 x 1624		30 fps at 2880 x 1620 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080	
<b>Audio Compression</b>		G.711		G.711	
<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 (with removable IR-cut filter)			
<b>Lens Type</b>		Fixed		Fixed	
<b>Focal Length</b>		1.68 mm		1.68 mm	
<b>Maximum Aperture</b>		F/2.0		F/2.0	
<b>Mount</b>		M12		Ø12 mm / M12	
<b>Horizontal FOV</b>		180°		180°	
<b>Operation</b>	Fixed				
	Zoom	Fixed		Fixed	
	Iris				
<b>IR LED Quantity</b>		2 IR LEDs		2 IR LEDs	
<b>Max. IR Distance</b>		15 m (50 ft)		20 m (65 ft)	
<b>Video Resolution</b>					
<b>Main Stream</b>		3840 x 2160 (Default), 3456 x 1936, 3200 x 1800, 2880 x 1624, 2560 x 1440, 1920 x 1080, 1280 x 720		2880 x 1620 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080	
<b>Sub Stream</b>		1280 x 720, 704 x 576, 640 x 480, 640 x 360 (Default), 352 x 288, 320 x 240		1920 x 1080, 1280 x 720, 720 x 576, 640 x 480, 640 x 360 (Default), 704 x 288, 352 x 288	
<b>Third Stream (Closed by Default)</b>		1280 x 720, 704 x 576, 640 x 480 (Default), 640 x 360, 352 x 288, 320 x 240		720 x 576, 704 x 288, 640 x 360, 352 x 288	
<b>Network</b>					
<b>Interface</b>		10/100 Ethernet		10/100 Ethernet	
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	Pan	0° ~ 360°		0° ~ 360°	
	Tilt	5° ~ 90°		0° ~ 75°	
	Rotate	0° ~ 360°		0° ~ 360°	
<b>Connectors</b>	Power	2-pin terminal block, PoE		DC Jack, PoE	
	Ethernet	RJ-45		RJ-45	
	Audio	1 In (built-in microphone)		1 In (built-in microphone)	
	Digital I/O	N/A		N/A	
<b>Local Storage</b>		microSD 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 ~ 60°C (-40°F ~ 140°F)		-30°C ~ 60°C (-22°F ~ 140°F)	
<b>Humidity</b>		0 ~ 90% (no condensation)		0 ~ 95% (no condensation)	
<b>Power Source</b>		12V DC / PoE (IEEE802.3af)		12V DC / PoE (IEEE802.3af)	
<b>Max. Power Consumption</b>		9 W		5.5 W	
<b>Certification</b>		CE, FCC compliant		CE, FCC, LVD, RoHS, UL compliant	
<b>Dimensions</b>		97 x 74 x 168.5 mm (3.82 x 2.91 x 6.63")		Ø 111 x 93 mm (Ø 4.4 x 3.7")	
<b>Weight</b>		0.63 kg (1.39 lb)		0.48 kg (1.06 lb)	
<b>Ingress Protection</b>		IP67		IP67	
<b>Vandal Resistance</b>		IK10 for metal casing		IK10 for metal casing / N/A	

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





## AI Camera (Part 9 – 180° Panoramic)

		GV-EBDP8800	GV-TBLP8800	
				
<b>Camera</b>				
<b>Image Sensor</b>		1/2.7" 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)		
	<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>		Auto / Manual		
<b>Gain Control</b>		Auto / Manual		
<b>S/N Ratio</b>		52 Db		
<b>WDR Pro</b>		Yes		
<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>		30 fps at 3840 x 2160, 3072 x 1728, 2560 x 1440, 1920 x 1080		
<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		
<b>Focal Length</b>		1.68 mm		
<b>Maximum Aperture</b>		F/2.0		
<b>Mount</b>		Ø12 mm	M12	
<b>Horizontal FOV</b>		180°		
<b>Operation</b>	<b>Fixed</b>			
	<b>Zoom</b>	Fixed		
	<b>Iris</b>			
<b>IR LED Quantity</b>		2 IR LEDs		
<b>Max. IR Distance</b>		20 m (65 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), 3072 x 1728, 2560 x 1440, 1920 x 1080	
<b>Sub Stream</b>		1280 x 720, 720 x 576, 640 x 480, 640 x 360 (Default), 704 x 288, 352 x 288	1280 x 720, 720 x 576, 640 x 480, 640 x 360 (Default), 704 x 288, 352 x 288	
<b>Third Stream (Closed by Default)</b>		640 x 360, 352 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° ~ 360°	
	<b>Tilt</b>	0° ~ 75°	0° ~ 90°	
	<b>Rotate</b>	0° ~ 360°	0° ~ 360°	
<b>Connectors</b>	<b>Power</b>		DC Jack, PoE	
	<b>Ethernet</b>		RJ-45	
	<b>Audio</b>	Built-in microphone	Yes	Yes
		External microphone required	No	No
		Built-in speaker	No	No
		External speaker required	No	No
	<b>Digital I/O</b>		N/A	
	<b>Local Storage</b>		microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10), Up to 256 GB *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>		12 V DC / PoE (IEEE802.3af)		
<b>Max. Power Consumption</b>		7 W		
<b>Certification</b>		CE, FCC, LVD, RoHS, UL compliant		
<b>Dimensions</b>		111 x 93 mm (4.4" x 3.7")	198 x 71 x 71 mm (7.8 x 2.8 x 2.8")	
<b>Weight</b>		0.49 kg (1.06 lb)	0.42 kg (0.93 lb)	
<b>Ingress Protection</b>		IP67		
<b>Vandal Resistance</b>		IK10 for metal casing	N/A	

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









## AI Camera (Part 10 – Box)

		GV-BX2802	GV-BX4802	
				
<b>Camera</b>				
<b>Image Sensor</b>		1/2.8" progressive scan super low lux CMOS		
<b>Picture Elements</b>		1920 (H) x 1080 (V)		
<b>Minimum Illumination</b>	<b>Color</b>	0.0028 Lux (F1.2, AGC ON)		
	<b>B/W</b>	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>		52 dB		
<b>WDR</b>		WDR Pro		
<b>Dynamic Range</b>		120 dB		
<b>Day/Night</b>		Yes (with removable IR-cut filter)		
<b>Mount</b>		CS Mount		
<b>Iris</b>		DC		
<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 / 1280 x 720 / 704 x 480 / 352 x 240 / 480 x 240 (60 / 50 Hz) (H.265 / H.265+ / H.264 / H.264+) 20 fps at 1280 x 720, 30 fps at 704 x 480 / 352 x 240 / 480 x 240 (60 / 50 Hz) (MJPEG)	30 fps at 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 352 x 240 / 480 x 240 (60 / 50 Hz)	
<b>Audio Compression</b>		G.711		
<b>Audio Support</b>		Two-way Audio (external speaker required)		
<b>Sensor Input</b>		2 inputs (dry contact, NO / NC)		
<b>Alarm Output</b>		2 relay outputs (30V DC, 1 A / 125V AC, 0.3A)		
<b>Video Resolution</b>				
<b>Main Stream</b>		1920 x 1080 (Default), 1280 x 720	2592 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720	
<b>Sub Stream</b>		1280 x 720 (Default), 704 x 480, 352 x 240	2592 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720	
<b>Third Stream</b>		704 x 480, 480 x 240, 352 x 240 (Default)		
<b>Network</b>				
<b>Interface</b>		10/100 Ethernet		
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	N/A		
	<b>Tilt</b>	N/A		
	<b>Rotate</b>	N/A		
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE		
	<b>Ethernet</b>	RJ-45		
	<b>Audio</b>	Built-in microphone	Yes	Built-in microphone
		External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)	Yes (audio jack, 3.5 mm or 0.14 in)
		Built-in speaker	No	Built-in speaker
		External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)	Yes (audio jack, 3.5 mm or 0.14 in)
	* Choose either the built-in or external option for devices with a microphone or speaker.		* Choose either the built-in or external option for devices with a microphone or speaker.	
* The Audio In port only supports microphones with a power supply.		* The Audio In port only supports microphones with a power supply.		
<b>Digital I/O</b>	8-pin terminal block pitch 2.54 mm (0.1")			
<b>TV-out</b>	BNC connector			
<b>Local Storage</b>	microSD 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)		
<b>Humidity</b>		0 ~ 95% (no condensation)		
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE802.3af)		
<b>Max. Power Consumption</b>		11 W		
<b>Certification</b>		FCC, CE, RoHS compliant		
<b>Dimensions</b>		Ø 160.8 x 79 x 64 mm (Ø 6.33 x 3.11 x 2.52")	Ø 160.8 x 79 x 64 mm (Ø 6.33 x 3.11 x 2.52")	
<b>Weight</b>		0.65 kg (1.43 lb)		
<b>Ingress Protection</b>		N/A		
<b>Vandal Resistance</b>		N/A		

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







## AI Camera (Part 11 – R Series)

		GV-RBL5800	GV-RBL5802	GV-RBL5811	GV-RDR5800	GV-REB5800	GV-REB5801
							
<b>Camera</b>							
<b>Image Sensor</b>		1/2.7" progressive scan super low lux CMOS					
<b>Picture Elements</b>		2592 (H) x 1944 (V)	2880 (H) x 1620 (V)	2592 (H) x 1944 (V)	2880 (H) x 1620 (V)	2592 (H) x 1944 (V)	2880 (H) x 1620 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.003 Lux (F1.6, AGC ON)	0.004 Lux (F1.6, AGC ON)	0.005 Lux (F1.8, AGC ON)	0.004 Lux (F1.6, AGC ON)		
	<b>B/W</b>	0 Lux					
	<b>IR ON</b>	0 Lux					
<b>Shutter Speed</b>		Auto / Manual (1/5 ~ 1/30000 sec)	Auto / Manual (1/5 ~ 1/20000 sec)	Auto / Manual (1/5 ~ 1/30000 sec)	Auto / Manual (1/5 ~ 1/20000 sec)	Auto / Manual (1/5 ~ 1/30000 sec)	Auto / Manual (1/5 ~ 1/20000 sec)
<b>White Balance</b>		Automatic, Manual					
<b>Gain Control</b>		Automatic, Manual					
<b>S/N Ratio</b>		50 dB	39 dB	50 dB	39 dB	50 dB	39 dB
<b>WDR Pro</b>		Yes					
<b>Dynamic Range</b>		120 dB					
<b>Day/Night</b>		Yes (with removable IR-cut filter)					
<b>Operation</b>							
<b>Video Compression</b>		H.265, H.264					
<b>Video Streaming</b>		Triple streams from H.265, H.264					
<b>Frame Rate</b>		Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 5 MP / 4 MP / 3 MP / 2 MP / 960P / 720P / VGA / QVGA	Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 5 MP / 4 MP / 3 MP / 2 MP / 720P / VGA / QVGA	Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 5 MP / 4 MP / 3 MP / 2 MP / 960P / 720P / VGA / QVGA	Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 5 MP / 4 MP / 3 MP / 2 MP / 720P / VGA / QVGA	Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 5 MP / 4 MP / 3 MP / 2 MP / 960P / 720P / VGA / QVGA	Max. 30 fps (60 Hz) / 25 fps (50 Hz) at 5 MP / 4 MP / 3 MP / 2 MP / 720P / VGA / QVGA
<b>Audio Compression</b>		G.711					
<b>Audio Support</b>		One-way audio (built-in microphone)		Two-way audio (external microphone and speaker required)		One-way audio (built-in microphone)	
<b>Optical Lens</b>							
<b>Focal Length</b>		3.6 mm	2F 3F	2.8 mm 3.6 mm	2.8 ~ 12 mm	2.8 mm	
<b>Mount</b>		M12		Ø 14 mm	M12		
<b>Horizontal FOV</b>		79°	2F 3F	110° 91°	32° ~ 97°	110°	97° 110°
<b>Operation</b>	<b>Focus</b>	Fixed		Auto / Manual	Fixed		
	<b>Zoom</b>	Fixed		4.3 Optical Zoom	Fixed		
	<b>Iris</b>	Fixed		DC	Fixed		
<b>Video Resolution</b>							
<b>Main Stream</b>		2592 x 1944 (Default), 2592 x 1520, 2048 x 1536, 2304 x 1296, 1920 x 1080, 1280 x 960	2880 x 1620 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720	2592 x 1944 (Default), 2592 x 1520, 2048 x 1536, 2304 x 1296, 1920 x 1080, 1280 x 960	2880 x 1620 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720	2592 x 1944 (Default), 2592 x 1520, 2048 x 1536, 2304 x 1296, 1920 x 1080, 1280 x 960	2880 x 1620 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720
<b>Sub Stream</b>		1920 x 1080, 1280 x 720, 640 x 480 (Default)	1280 x 720 (Default), 640 x 480, 320 x 240	1920 x 1080, 1280 x 720, 640 x 480 (Default)	1280 x 720 (Default), 640 x 480, 320 x 240	1920 x 1080, 1280 x 720, 640 x 480 (Default)	1280 x 720 (Default), 640 x 480, 320 x 240
<b>Third Stream</b>		640 x 480, 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° ~ 359°	
	<b>Tilt</b>	0 ~ 80°	0° ~ 90°	0 ~ 80°	0° ~ 73°		
	<b>Rotate</b>	0 ~ 360°				0° ~ 359°	
<b>Connectors</b>	<b>Power</b>	DC jack, PoE					
	<b>Ethernet</b>	RJ-45					
	<b>Audio</b>	1 in (built-in microphone)		1 in (RCA), 1 out (RCA)		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>	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10), up to 256 GB * UHS-II card type is not supported.					
<b>General</b>							
<b>Operating Temperature</b>		-35°C ~ 60°C (-31°F ~ 140°F)					
<b>Humidity</b>		0% ~ 90% (no condensation)					
<b>Power Source</b>		DC 12 V / PoE (IEEE 802.3af)					
<b>Max. Power Consumption</b>		5.5 W		9.5 W	5 W	5.5 W	
<b>Certification</b>		CE, FCC, RoHS compliant					
<b>Dimensions</b>		Ø 71.2 x 150.6 mm (Ø 2.8 x 5.93 in)		242.12 x 87.4 x 83.88 mm (9.53 x 3.44 x 3.3 in)	Ø 115 x 91.6 mm (Ø 4.5 x 3.6 in)		Ø 100 x 90 mm (Ø 3.9 x 3.5 in)
<b>Weight</b>		0.4 kg (0.88 lb)		0.81 kg (1.78 lb)	0.56 kg (1.23 lb)		0.42 kg (0.91 lb)
<b>Ingress Protection</b>		IP67					
<b>Vandal Resistance</b>		N/A		IK10 for metal casing			

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







## AI Camera (Part 12 – GBL)

		GV-GBL12811	GV-GBL2802	GV-GBL4802	GV-GBL4813
					
<b>Camera</b>					
<b>Image Sensor</b>		1/1.7" progressive scan super low lux CMOS	1/2.8" progressive scan super low lux CMOS	1/3" progressive scan super low lux CMOS	1/3" progressive scan CMOS
<b>Picture Elements</b>		4000 (H) x 3000 (V)	1920 (H) x 1080 (V)	2560 (H) x 1440 (V)	2560 (H) x 1440 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.006 Lux (F1.4, AGC ON)	0.008 Lux (F1.6, AGC ON)	0.005 Lux (F1.6, AGC ON)	0.004 Lux (F1.4, AGC ON)
	<b>B/W</b>	N/A	N/A	N/A	N/A
	<b>IR ON</b>	0 Lux	0 Lux	0 Lux	0 Lux
<b>Shutter Speed</b>		Auto / Manual (1/3 ~ 1/100000 sec)	Auto / Manual (1/3 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>S/N Ratio</b>		50 dB	50 dB	50 dB	50 dB
<b>WDR</b>		Yes	WDR Pro	WDR Pro	WDR Pro
<b>Dynamic Range</b>		75 dB	120 dB	120 dB	120 dB
<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)
<b>Operation</b>					
<b>Video Compression</b>		H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG
<b>Video Streaming</b>		Five streams	Triple streams	Triple streams	Triple streams
<b>Frame Rate</b>		30 fps at 4000 x 3000 / 3840 x 2160 / 3200 x 1800 / 2688 x 1520 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz)	30 fps at 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 352 x 240 (60 Hz)	Max. 30 fps (60 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 480, 640 x 480, 480 x 240, 352 x 240	Max. 30 fps (60 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 480, 640 x 480, 480 x 240, 352 x 240
		25 fps at 4000 x 3000 / 3840 x 2160 / 3200 x 1800 / 2688 x 1520 / 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)	25 fps at 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 352 x 288 (50 Hz)	Max. 25 fps (50 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480, 480 x 240, 352 x 288	Max. 25 fps (50 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480, 480 x 240, 352 x 288
<b>Audio Compression</b>		G.711	G.711	G.711	G.711
<b>Audio Support</b>		Two-way Audio (external speaker required)	One-way audio	One-way audio	One-way audio
<b>Sensor Input</b>		1 Input (dry contact, NO / NC)	N/A	N/A	N/A
<b>Alarm Output</b>		1 relay output (1A 30V DC / 0.3A 125V AC)	N/A	N/A	N/A
<b>Optical Lens</b>					
<b>Focal Length</b>		2.8-12 mm	2F 3F 2.8 mm 3.6 mm	2F 3F 2.8 mm 3.6 mm	2.8-12 mm
<b>Mount</b>		Ø 14	M12	M12	Ø14
<b>Horizontal FOV</b>		96°~ 46°	2F 3F 107° 89°	2F 3F 94° 78°	92° ~ 31°
<b>Operation</b>	<b>Focus</b>	Auto / Manual	Fixed	Fixed	Auto / Manual
	<b>Zoom</b>	4.3x	Fixed	Fixed	4.3x
	<b>Iris</b>	DC	Fixed	Fixed	Fixed
<b>IR LED Quantity</b>		4 IR LEDs	1 IR LED	1 IR LED	2 IR LEDs
<b>Max. IR Distance</b>		70 m (230 ft)	30 m (100 ft)	30 m (100 ft)	50 m (165 ft)
<b>Warm LED Quantity</b>		N/A	1 Warm LED	1 Warm LED	1 Warm LED
<b>Max. Warm LED Light Distance</b>		N/A	30 m (100 ft)	30 m (100 ft)	40 m (130 ft)
<b>Video Resolution</b>					
<b>Main Stream</b>		4000 x 3000 (Default), 3840 x 2160, 3200 x 1800, 2688 x 1520, 1920 x 1080	1920 x 1080 (Default), 1280 x 720	2560 x 1440 (default), 2304 x 1296, 1920 x 1080, 1280 x 720	2560 x 1440 (default), 2304 x 1296, 1920 x 1080, 1280 x 720
<b>Sub Stream</b>		1920 x 1080, 1280 x 720, 704 x 576, 704 x 480 (Default)	704 x 480, 704 x 576, 640 x 480, 640 x 360 (Default), 352 x 240, 352 x 288	1280 x 720 (default), 704 x 480, 704 x 576, 640 x 480, 352 x 240, 352 x 288	1280 x 720 (default), 704 x 480, 704 x 576, 640 x 480, 352 x 240, 352 x 288
<b>Third Stream</b>		1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 x 240	704 x 480 (Default), 704 x 576, 480 x 240, 352 x 240, 352 x 288	704 x 480 (default), 704 x 576, 480 x 240, 352 x 240, 352 x 288	704 x 480 (default), 704 x 576, 480 x 240, 352 x 240, 352 x 288
<b>Network</b>					
<b>Interface</b>		10/100 Ethernet	10/100 Ethernet	10/100 Ethernet	10/100 Ethernet
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0 ~ 360°	0 ~ 360°	0 ~ 360°	0 ~ 360°
	<b>Tilt</b>	0 ~ 90°	0 ~ 80°	0 ~ 80°	0 ~ 90°
	<b>Rotate</b>	0 ~ 360°	0 ~ 360°	0 ~ 360°	0 ~ 360°
<b>Connectors</b>	<b>Power</b>	DC Jack	DC Jack	DC Jack	DC jack
	<b>Ethernet</b>	RJ-45	RJ-45 connector	RJ-45 connector	RJ-45 connector
	<b>Audio</b>	1 In (built-in or external microphone), 1 Out (stereo phone jack, 3.5 mm / 0.14")	1 in (built-in or external microphone)	1 in (built-in or external microphone)	1 in (built-in or external microphone)
	<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm (0.14")	N/A	N/A	N/A
	<b>Local Storage</b>	microSD card slot (SD / SDHC / SDXC), up to 512 GB	microSD card slot (SD / SDHC / SDXC), up to 256 GB	microSD card slot (SD / SDHC / SDXC), up to 256 GB	microSD card slot (SD / SDHC / SDXC), up to 256 GB
<b>General</b>					
<b>Operating Temperature</b>		-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
<b>Humidity</b>		0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)
<b>Power Source</b>		12V DC, 1.5A / PoE (IEEE 802.3af)	12V DC, 1.5A / PoE (IEEE 802.3af)	DC 12V, 1A / PoE (IEEE 802.3af)	DC 12V, 1.5A / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		12 W	6 W	6 W	8.5 W
<b>Certification</b>		CE, FCC, RoHS, UKCA compliant	CE, FCC, LVD, RoHS, UKCA, BSMI compliant	CE, FCC, RoHS, UKCA compliant	CE, FCC, LVD, RoHS compliant
<b>Dimensions</b>		272.3 x 94.9 x 88.9 mm (10.72 x 3.73 x 3.5")	165.7 x 69 x 69 mm (6.5" x 2.7" x 2.7")	165.7 x 69 x 69 mm (6.5" x 2.7" x 2.7")	218.1 x 70.4 x 79.5 mm (8.6 x 2.8 x 3.1 in)
<b>Weight</b>		1.12 kg (2.47 lb)	0.45 kg (0.99 lb)	0.39 kg (0.86 lb)	0.71 kg (1.57 lb)
<b>Ingress Protection</b>		IP67	IP67	IP67	IP67
<b>Vandal Resistance</b>		IK10	IK10	IK10	IK10

Note: Specifications are subject to change without notice.






## AI Camera (Part 13 – GDR / GVD)

		GV-GDR2801	GV- GDRF4800	GV-GVD4810	GV-GVD12810
					
<b>Camera</b>					
<b>Image Sensor</b>		1/2.8" progressive scan super low lux CMOS	1/3" progressive scan super low lux CMOS	1/3" progressive scan CMOS	1/1.7" progressive scan CMOS
<b>Picture Elements</b>		1920 (H) x 1080 (V)	2560 (H) x 1440 (V)	2560 (H) x 1440 (V)	4000 (H) x 3000 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.008 Lux (F1.6, AGC ON)	0.005 Lux (F1.6, AGC ON)	0.004 Lux (F1.4, AGC ON)	0.006 Lux (F1.4, AGC ON)
	<b>B/W</b>	N/A	N/A	N/A	N/A
	<b>IR ON</b>	0 Lux	0 Lux	0 Lux	0 Lux
<b>Shutter Speed</b>		Auto / Manual (1/3 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1/3 ~ 1/100000 sec)
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
<b>S/N Ratio</b>		50 dB	50 dB	50 dB	50 dB
<b>WDR</b>		WDR Pro	WDR Pro	WDR Pro	WDR
<b>Dynamic Range</b>		120 dB	120 dB	120 dB	75 dB
<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)
<b>Operation</b>					
<b>Video Compression</b>		H.265, H.264, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG
<b>Video Streaming</b>		Triple streams	Triple streams	Triple streams	Five streams
<b>Frame Rate</b>		30 fps at 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 352 x 240 (60 Hz) 25 fps at 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 352 x 288 (50 Hz)	Max. 30 fps (60 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 480, 640 x 480, 480 x 240, 352 x 240 Max. 25 fps (50 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480, 480 x 240, 352 x 288	Max. 30 fps (60 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 480, 640 x 480, 480 x 240, 352 x 240 Max. 25 fps (50 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480, 480 x 240, 352 x 288	30 fps at 4000 x 3000 / 3840 x 2160 / 3200 x 1800 / 2688 x 1520 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz) 25 fps at 4000 x 3000 / 3840 x 2160 / 3200 x 1800 / 2688 x 1520 / 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)
<b>Audio Compression</b>		G.711	G.711	G.711	G.711
<b>Audio Support</b>		One-way audio (external microphone required)	One-way audio	One-way audio	Two-way audio (external speaker required)
<b>Sensor Input</b>		N/A	N/A	N/A	1 Input, dry contact, NO / NC
<b>Alarm Output</b>		N/A	N/A	N/A	1 Relay Output (1A 30V DC / 0.3A 125V AC)
<b>Optical Lens</b>					
<b>Focal Length</b>	2F	2.8 mm	2F	2.8 mm	2.8-12 mm
	3F	3.6 mm	3F	3.6 mm	
<b>Mount</b>		M12	M12	Ø14	Ø14
<b>Horizontal FOV</b>	2F	107°	2F	94°	92° ~ 31°
	3F	89°	3F	78°	
<b>Operation</b>	<b>Focus</b>	Fixed	Fixed	Auto / Manual	Auto / Manual
	<b>Zoom</b>	Fixed	Fixed	4.3x	4.3x
	<b>Iris</b>	Fixed	Fixed	Fixed	DC
<b>IR LED Quantity</b>		1 IR LED	2 IR LEDs	3 IR LEDs	3 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	30 m (100 ft)	50 m (165 ft)	50 m (165 ft)
<b>Warm LED Quantity</b>		N/A	N/A	N/A	N/A
<b>Max. Warm LED Light Distance</b>		N/A	N/A	N/A	N/A
<b>White LED Quantity</b>		N/A	2 White LEDs	N/A	N/A
<b>Max. White LED Light Distance</b>		N/A	30 m (100 ft)	N/A	N/A
<b>Video Resolution</b>					
<b>Main Stream</b>		1920 x 1080 (Default), 1280 x 720	2560 x 1440 (default), 2304 x 1296, 1920 x 1080, 1280 x 720	2560 x 1440 (default), 2304 x 1296, 1920 x 1080, 1280 x 720	4000 x 3000 (Default), 3840 x 2160, 3200 x 1800, 2688 x 1520, 1920 x 1080
<b>Sub Stream</b>		704 x 480, 704 x 576, 640 x 480, 640 x 360 (Default), 352 x 240, 352 x 288	1280 x 720 (default), 704 x 480, 704 x 576, 640 x 480, 352 x 240, 352 x 288	1280 x 720 (default), 704 x 480, 704 x 576, 640 x 480, 352 x 240, 352 x 288	1920 x 1080, 1280 x 720, 704 x 576, 704 x 480 (Default)
<b>Third Stream</b>		704 x 480 (Default), 704 x 576, 480 x 240, 352 x 240, 352 x 288	704 x 480 (default), 704 x 576, 480 x 240, 352 x 240, 352 x 288	704 x 480 (default), 704 x 576, 480 x 240, 352 x 240, 352 x 288	1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 x 240
<b>Network</b>					
<b>Interface</b>		10/100 Ethernet	10/100 Ethernet	10/100 Ethernet	10/100 Ethernet
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0 ~ 355°	0 ~ 355°	0 ~ 345°	0 ~ 345°
	<b>Tilt</b>	0 ~ 70°	0 ~ 70°	0 ~ 77°	0 ~ 77°
	<b>Rotate</b>	0 ~ 355°	0 ~ 180°	0 ~ 345°	0 ~ 345°
<b>Connectors</b>	<b>Power</b>	DC Jack	DC Jack	DC jack	DC jack, PoE
	<b>Ethernet</b>	RJ-45	RJ-45 connector	RJ-45 connector	RJ-45
	<b>Audio</b>	1 In (external microphone)	1 in (built-in or external microphone)	1 in (built-in or external microphone)	1 in (built-in or external microphone)
	<b>Digital I/O</b>	N/A	N/A	N/A	4-pin terminal block pitch 3.5 mm (0.14 in)
	<b>Local Storage</b>	microSD card slot (SD / SDHC / SDXC), up to 256 GB	microSD card slot (SD / SDHC / SDXC), up to 256 GB	microSD card slot (SD / SDHC / SDXC), up to 256 GB	microSD card slot (SD / SDHC / SDXC), up to 512 GB
<b>General</b>					
<b>Operating Temperature</b>		-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)
<b>Humidity</b>		0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)
<b>Power Source</b>		DC 12V, 1.5A / PoE (IEEE 802.3af)	DC 12V, 1A / PoE (IEEE 802.3af)	DC 12V, 1.5A / PoE (IEEE 802.3af)	12V DC, 1.5A / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		4 W	5.5 W	7.5 W	12 W
<b>Certification</b>		CE, FCC, LVD, RoHS, UKCA compliant	CE, FCC, RoHS, UKCA compliant	CE, FCC, LVD, RoHS compliant	CE, FCC, RoHS compliant
<b>Dimensions</b>		Ø110 x 83 mm (Ø 4.3" x 3.3")	Ø 119 x 87.8 mm (Ø 4.7 x 3.5 in)	Ø 141 x 100.2 mm (Ø 5.6 x 3.9 in)	Ø 141 x 100.2 mm (Ø 5.6 x 3.9 in)
<b>Weight</b>		0.5 kg (1.10 lb)	0.64 kg (1.41 lb)	0.93 kg (2.05 lb)	0.93 kg (2.05 lb)
<b>Ingress Protection</b>		IP67	IP67	IP67	IP67
<b>Vandal Resistance</b>		IK10	IK10	IK10	IK10 for metal casing

Note: Specifications are subject to change without notice.




## AI Camera (Part 14 – GEB)

		GV-GEBF2802	GV- GEBF4802	GV-GEBF4813
				
<b>Camera</b>				
<b>Image Sensor</b>		1/2.8" progressive scan super low lux CMOS	1/3" progressive scan super low lux CMOS	1/3" progressive scan CMOS
<b>Picture Elements</b>		1920 (H) x 1080 (V)	2560 (H) x 1440 (V)	2560 (H) x 1440 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.008 Lux (F1.6, AGC ON)	0.005 Lux (F1.6, AGC ON)	0.004 Lux (F1.4, 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 (1/3 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto / Manual	Auto / Manual	Auto / Manual
<b>S/N Ratio</b>		50 dB	50 dB	50 dB
<b>WDR</b>		WDR Pro	WDR Pro	Yes
<b>Dynamic Range</b>		120 dB	120 dB	120 dB
<b>Day/Night</b>		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
<b>Operation</b>				
<b>Video Compression</b>		H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG
<b>Video Streaming</b>		Triple streams	Triple streams	Triple streams
<b>Frame Rate</b>		Max. 30 fps (60 Hz) at 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 352 x 240 Max. 25 fps (50 Hz) at 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 352 x 288	Max. 30 fps (60 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 480, 640 x 480, 480 x 240, 352 x 240 Max. 25 fps (50 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480, 480 x 240, 352 x 288	Max. 30 fps (60 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 480, 640 x 480, 480 x 240, 352 x 240 Max. 25 fps (50 Hz) at 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480, 480 x 240, 352 x 288
<b>Audio Compression</b>		G.711	G.711	G.711
<b>Audio Support</b>		One-way audio	One-way audio	One-way audio
<b>Sensor Input</b>		N/A	N/A	N/A
<b>Alarm Output</b>		N/A	N/A	N/A
<b>Optical Lens</b>				
<b>Focal Length</b>		2F	2.8 mm	2.8-12 mm
		3F	3.6 mm	
<b>Mount</b>		M12	M12	Ø14
<b>Horizontal FOV</b>		2F	107°	92°-31°
		3F	89°	
<b>Operation</b>	<b>Focus</b>	Fixed	Fixed	Auto / Manual
	<b>Zoom</b>	Fixed	Fixed	4.3x
	<b>Iris</b>	Fixed	Fixed	Fixed
<b>IR LED Quantity</b>		1 IR LED	1 IR LED	2 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	30 m (100 ft)	50 m (165 ft)
<b>Warm LED Quantity</b>		1 Warm LED	1 Warm LED	1 Warm LED
<b>Max. Warm LED Light Distance</b>		30 m (100 ft)	30 m (100 ft)	40 m (130 ft)
<b>White LED Quantity</b>		N/A	N/A	N/A
<b>Max. White LED Light Distance</b>		N/A	N/A	N/A
<b>Video Resolution</b>				
<b>Main Stream</b>		1920 x 1080 (Default), 1280 x 720	2560 x 1440 (default), 2304 x 1296, 1920 x 1080, 1280 x 720	2560 x 1440 (default), 2304 x 1296, 1920 x 1080, 1280 x 720
<b>Sub Stream</b>		704 x 480, 704 x 576, 640 x 480, 640 x 360 (Default), 352 x 240, 352 x 288	1280 x 720 (default), 704 x 480, 704 x 576, 640 x 480, 352 x 240, 352 x 288	1280 x 720 (default), 704 x 480, 704 x 576, 640 x 480, 352 x 240, 352 x 288
<b>Third Stream</b>		704 x 480 (Default), 704 x 576, 480 x 240, 352 x 240, 352 x 288	704 x 480 (default), 704 x 576, 480 x 240, 352 x 240, 352 x 288	704 x 480 (default), 704 x 576, 480 x 240, 352 x 240, 352 x 288
<b>Network</b>				
<b>Interface</b>		10/100 Ethernet	10/100 Ethernet	10/100 Ethernet
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0 ~ 360°	0 ~ 360°	0 ~ 360°
	<b>Tilt</b>	0 ~ 75°	0 ~ 75°	0 ~ 80°
	<b>Rotate</b>	0 ~ 360°	0 ~ 360°	0 ~ 360°
<b>Connectors</b>	<b>Power</b>	DC jack	DC Jack	DC jack
	<b>Ethernet</b>	RJ-45 connector	RJ-45 connector	RJ-45 connector
	<b>Audio</b>	1 in (built-in or external microphone)	1 in (built-in or external microphone)	1 in (built-in or external microphone)
	<b>Digital I/O</b>	N/A	N/A	N/A
	<b>Local Storage</b>	microSD card slot (SD / SDHC / SDXC), up to 256 GB	microSD card slot (SD / SDHC / SDXC), up to 256 GB	microSD card slot (SD / SDHC / SDXC), up to 256 GB
<b>General</b>				
<b>Operating Temperature</b>		-30°C ~ 60°C (-22°F ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
<b>Humidity</b>		0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)
<b>Power Source</b>		DC 12V, 1A / PoE (IEEE 802.3af)	DC 12V, 1A / PoE (IEEE 802.3af)	DC 12V, 1.5A / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		6 W	6 W	9 W
<b>Certification</b>		CE, FCC, LVD, RoHS, UKCA compliant	CE, FCC, RoHS, UKCA compliant	CE, FCC, RoHS compliant
<b>Dimensions</b>		Ø 94.6 x 82.8 mm (Ø 3.7 x 3.3 in)	Ø 94.6 x 82.8 mm (Ø 3.7 x 3.3 in)	Ø 111.6 x 99.3 mm (Ø 4.39 x 3.91 in)
<b>Weight</b>		0.45 kg (0.99 lb)	0.45 kg (0.99 lb)	0.66 kg (1.45 lb)
<b>Ingress Protection</b>		IP67	IP67	IP67
<b>Vandal Resistance</b>		IK10	IK10	IK10 for metal casing

Note: Specifications are subject to change without notice.






## AI Camera (Part 15 – Thermal)

		<b>GV-TMEBS800</b>		
				
<b>Camera</b>				
<b>Image Sensor</b>		Vanadium oxide uncooled focal plane detector		
<b>Picture Elements</b>		256 (H) x 192 (V) (the resolution of output image is 1280 x 720)		
<b>Pixel Size</b>		12 $\mu$ m		
<b>Thermal Sensitivity</b>		$\leq 50$ mK (@25°C, F#=1.0)		
<b>Spectral Range</b>		8 ~ 14 $\mu$ m		
<b>Gain Control</b>		Auto, Manual		
<b>Operation</b>				
<b>Video Compression</b>		H.265, H.264, MJPEG		
<b>Video Streaming</b>		Triple streams		
<b>Frame Rate</b>	<b>Thermal</b>	17 fps at 1280 x 720 / 704 x 480 / 480 x 240 / 352 x 240 (60 / 50 Hz)		
	<b>Optical</b>	30 fps at 2592 x 1944 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 480 x 240 / 352 x 240 (60 / 50 Hz)		
<b>Image Setting</b>		Brightness, Contrast, Saturation, Sharpness, Flicker-less, 3D Noise Reduction, Image Orientation, Dual Image Fusion		
<b>Noise Reduction</b>		Yes		
<b>Audio Compression</b>		G.711		
<b>Audio Support</b>		Two-way audio		
<b>Thermal Lens</b>				
<b>Focal Length</b>		3.2 mm		
<b>Horizontal FOV</b>		56°		
<b>Optical Lens</b>				
<b>Focal Length</b>		4 mm		
<b>Horizontal FOV</b>		81°		
<b>Operation</b>	<b>Focus</b>	Fixed		
	<b>Zoom</b>	Fixed		
	<b>Iris</b>	Fixed		
<b>Observation Range</b>				
<b>Detection</b> (1.5 pixels on target)	<b>Human (0.75 m)</b>	133 m (436.4 ft)		
	<b>Car (2.3 m)</b>	409 m (1341.8 9 ft)		
<b>Recognition</b> (6 pixels on target)	<b>Human (0.75 m)</b>	33 m (108.3 ft)		
	<b>Car (2.3 m)</b>	102 m (334.6 ft)		
<b>Identification</b> (12 pixels on target)	<b>Human (0.75 m)</b>	17 m (55.8 ft)		
	<b>Car (2.3 m)</b>	51 m (167.3 ft)		
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°		
	<b>Tilt</b>	0° ~ 75°		
	<b>Rotate</b>	0° ~ 360°		
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE		
	<b>Ethernet</b>	RJ-45 cable		
	<b>Audio</b>	Built-in microphone	Yes	
		External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)	
		Built-in speaker	Yes	
		External speaker required	No	
	* Choose either the built-in or external option for devices with a microphone or speaker. * The Audio In port only supports microphones with a power supply.			
<b>Digital I/O</b>	4-pin terminal block pitch 3.81 mm (0.15")			
<b>Local Storage</b>	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.			
<b>General</b>				
<b>Environment Temperature</b>		-30°C ~ 60 °C (-22 °F ~ 140 °F)		
<b>Humidity</b>		0 ~ 95% (no condensation)		
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)		
<b>Max. Power Consumption</b>		9 W		
<b>Certification</b>		CE, FCC, RoHS compliant		
<b>Dimensions</b>		Ø 111.5 x 99.6 mm (Ø 4.39" x 3.92")		
<b>Weight</b>		0.68 kg (1.5 lb)		

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



## AI Camera (Part 16 – Cloud Series)

		GV-GEF4911	GV-GE4900	GV-GE8900	
					
<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 x 2	
<b>Picture Elements</b>		2592 (H) x 1520 (V)	2688 (H) x 1520 (V)	4640 (H) x 1760 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.02 Lux (F1.4, AGC ON)	0.005 Lux (F1.6, AGC ON)	0.0032 Lux (F1.6, AGC ON)	
	<b>B/W</b>	N/A	N/A	N/A	
	<b>IR ON</b>	N/A	0 Lux	0 Lux	
<b>Shutter Speed</b>		Automatic / Manual (1/3 ~ 1/100000 sec)	Automatic / Manual (1/3 ~ 1/100000 sec)	Automatic, Manual (1/3 ~ 1/100000 sec)	
<b>White Balance</b>		Automatic, Manual	Automatic, Manual	Automatic, Manual	
<b>Gain Control</b>		Automatic, Manual	Automatic, Manual	Automatic, Manual	
<b>S/N Ratio</b>		50 dB	50 dB	50 dB	
<b>WDR</b>		WDR Pro	WDR Pro	Yes	
<b>Dynamic Range</b>		120 dB	120 dB	90 dB	
<b>Operation</b>					
<b>Video Compression</b>		H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	
<b>Video Streaming</b>		Triple streams	Triple streams	Triple streams	
<b>Frame Rate</b>		30 fps at 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 352 x 240 / 480 x 240 (60 Hz)	30 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz)	30 fps at 4640 x 1760 / 3632 x 1632 / 3200 x 1200 / 2304 x 864 / 2048 x 768 / 1600 x 608 / 1200 x 448 / 960 x 368 / 640 x 240 (60 Hz)	
		25 fps at 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 567 / 640 x 480 / 352 x 288 / 480 x 240 (50 Hz)	25 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)	25 fps at 4640 x 1760 / 3632 x 1632 / 3200 x 1200 / 2304 x 864 / 2048 x 768 / 1600 x 608 / 1200 x 448 / 960 x 368 / 640 x 240 (50 Hz)	
<b>Audio Compression</b>		G.711	G.711	G.711	
<b>Audio Support</b>		Two-way Audio	Two-way Audio (external speaker required)	Two-way audio	
<b>Sensor Input</b>		1 input (dry contact, NO / NC)	N/A	1 Input, dry contact, NO / NC	
<b>Alarm Output</b>		1 relay output (30V DC, 1 A / 125V AC, 0.3A)	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)	Yes (with removable IR-cut filter)	
<b>Lens Type</b>		Motorized	Fixed	Fixed	
<b>Focal Length</b>		2.8 ~ 12 mm	2.8 mm	2.8 mm	
<b>Maximum Aperture</b>		F/1.4	F/1.6	F/1.6	
<b>Mount</b>		Φ14	M12	M12	
<b>Horizontal FOV</b>		96° - 32.33°	95.3°	180°	
<b>Operation</b>	<b>Focus</b>	Auto / Manual	Fixed	Fixed	
	<b>Zoom</b>	4.3x	Fixed	Fixed	
	<b>Iris</b>	DC	Fixed	Fixed	
<b>Active Deterrence</b>		1 red and blue LED	N/A	1 red and blue LED	
<b>IR LED Quantity</b>		1 IR LED	1 IR LED	2 IR LEDs	
<b>Max. IR Distance</b>		40 m (130 ft)	30 m (100 ft)	30 m (100 ft)	
<b>Warm LED Quantity</b>		1 Warm LED	N/A	2 Warm LEDs	
<b>Max. Warm LED Light Distance</b>		40 m (130 ft)	N/A	20 m (65 ft)	
<b>Video Resolution</b>					
<b>Main Stream</b>		2592 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720	2688 x 1520 (Default), 2592 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080	4640 x 1760 (Default), 3632 x 1632, 3200 x 1200, 2304 x 864	
<b>Sub Stream</b>		1280 x 720 (Default), 704 x 480, 640 x 480, 352 x 240	1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 240	2048 x 768 (Default), 1600 x 608, 1200 x 448	
<b>Third Stream</b>		704 x 480, 640 x 480, 352 x 240, 480 x 240	1280 x 720 (Default), 704 x 576, 704 x 480, 480 x 240, 352 x 240	1200 x 448 (Default), 960 x 368, 640 x 240	
<b>Network</b>					
<b>Interface</b>		10/100 Ethernet	10/100 Ethernet	10/100 Ethernet	
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	0° ~ 360°	0 ~ 360°	
	<b>Tilt</b>	0° ~ 75°	0° ~ 75°	0 ~ 75°	
	<b>Rotate</b>	0° ~ 360°	0° ~ 360°	0 ~ 360°	
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	DC Jack, PoE	DC jack	
	<b>Ethernet</b>	RJ-45	RJ-45	RJ-45 connector	
	<b>Audio</b>	Built-in microphone	Yes	Built-in microphone	Yes
		External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)	External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)
		Built-in speaker	Yes	Built-in speaker	No
		External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)	External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)
	* Choose either the built-in or external option for devices with a microphone or speaker.		* Choose either the built-in or external option for devices with a microphone or speaker.		* Choose either the built-in or external option for devices with a microphone or speaker.
* The Audio In port only supports microphones with a power supply.		* The Audio In port only supports microphones with a power supply.		* The Audio In port only supports microphones with a power supply.	
<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm (0.14")	N/A	4-pin terminal block pitch 3.5 mm (0.14")		
<b>Local Storage</b>	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	microSD card slot (SD / SDHC / SDXC), up to 256 GB		
<b>General</b>					
<b>Operating Temperature</b>		-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)	





<b>Humidity</b>	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)
<b>Power Source</b>	12V DC / PoE (IEEE802.3af)	DC 12V, 1A / PoE (IEEE 802.3af)	DC 12 V, 1.25 A / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>	12 W	7 W	DC 12 V: Max. 9 W PoE: Max. 10.2 W
<b>Certification</b>	FCC, CE, RoHS, UL compliant	CE, FCC, RoHS, UKCA, UL compliant	CE, FCC, RoHS compliant
<b>Dimensions</b>	Ø 111.6 x 99.3 mm (Ø 4.39" x 3.91")	Ø 94.6 x 82.8 mm (Ø 3.72" x 3.26")	Ø 111.5 x 102.2 mm (Ø 4.4 x 4.0 in)
<b>Weight</b>	0.64 kg (1.41 lb)	0.46 kg (1.01 lb)	0.72 kg (1.59 lb)
<b>Ingress Protection</b>	IP66	IP67	IP67
<b>Vandal Resistance</b>	IK10 for metal casing	IK10 for metal casing	N/A

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






## AI Camera (Part 17 – Cloud Series)

		GV-GDR4900	GV-GVD4910	
				
<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>		2688 (H) x 1520 (V)	2688 (H) x 1520 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.005 Lux (F1.6, AGC ON)	0.003 Lux (F1.3, AGC ON)	
	<b>B/W</b>	N/A	N/A	
	<b>IR ON</b>	0 Lux	0 Lux	
<b>Shutter Speed</b>		Automatic / Manual (1/3 ~ 1/100000 sec)	Automatic, Manual (1/3 ~ 1/100000 sec)	
<b>White Balance</b>		Automatic, Manual	Automatic, Manual	
<b>Gain Control</b>		Automatic, Manual	Automatic, Manual	
<b>S/N Ratio</b>		50 dB	50 dB	
<b>WDR</b>		WDR Pro	WDR Pro	
<b>Dynamic Range</b>		120 dB	120 dB	
<b>Operation</b>				
<b>Video Compression</b>		H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	
<b>Video Streaming</b>		Triple streams	Triple streams	
<b>Frame Rate</b>		30 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz)	30 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz)	
		25 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)	25 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)	
<b>Audio Compression</b>		G.711	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, NO / NC)	1 Input (dry contact, NO / NC)	
<b>Alarm Output</b>		1 relay output (30V DC, 1A / 125V AC, 0.3A)	1 relay output (30V DC, 1A / 125V AC, 0.3A)	
<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	
<b>Focal Length</b>		2.8 mm	2.8 – 12 mm	
<b>Maximum Aperture</b>		F/1.6	F/1.3	
<b>Mount</b>		M12	Ø14	
<b>Horizontal FOV</b>		95.3°	100° - 28.9°	
<b>Operation</b>	<b>Focus</b>	Fixed	Auto / Manual	
	<b>Zoom</b>	Fixed	4.3x	
	<b>Iris</b>	Fixed	DC	
<b>IR LED Quantity</b>		2 IR LEDs	3 IR LEDs	
<b>Max. IR Distance</b>		20 m (65 ft)	50 m (165 ft)	
<b>Video Resolution</b>				
<b>Main Stream</b>		2688 x 1520 (Default), 2592 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080	2688 x 1520 (Default), 2592 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080	
<b>Sub Stream</b>		1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 240	1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 x 240	
<b>Third Stream</b>		1280 x 720 (Default), 704 x 576, 704 x 480, 480 x 240, 352 x 240	1280 x 720 (Default), 704 x 576, 704 x 480, 480 x 240, 352 x 288, 352 x 240	
<b>Network</b>				
<b>Interface</b>		10/100 Ethernet	10/100 Ethernet	
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	0° ~ 345°	
	<b>Tilt</b>	0° ~ 75°	0° ~ 77°	
	<b>Rotate</b>	0° ~ 350°	0° ~ 345°	
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	DC Jack, PoE	
	<b>Ethernet</b>	RJ-45	RJ-45	
	<b>Audio</b>	Built-in microphone	Yes	Yes
		External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)	Yes (audio jack, 3.5 mm or 0.14 in)
		Built-in speaker	No	No
		External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)	Yes (audio jack, 3.5 mm or 0.14 in)
	<i>* Choose either the built-in or external option for devices with a microphone or speaker. * The Audio In port only supports microphones with a power supply.</i>		<i>* Choose either the built-in or external option for devices with a microphone or speaker. * The Audio In port only supports microphones with a power supply.</i>	
<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm (0.14")	4-pin terminal block pitch 3.5 mm (0.14")		
<b>Local Storage</b>	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	microSD 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 ~ 60°C (-22 ~ 140°F)	
<b>Humidity</b>		0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	
<b>Power Source</b>		DC 12V, 1A / PoE (IEEE 802.3af)	DC 12V / PoE (IEEE 802.3af)	
<b>Max. Power Consumption</b>		5.5 W	9 W	
<b>Certification</b>		CE, FCC, RoHS, UKCA, UL compliant	CE, FCC, RoHS, UKCA, UL compliant	
<b>Dimensions</b>		Ø 110.4 x 62 mm (Ø 4.3 x 2.4")	Ø 141 x 100.2 mm (Ø 5.55 x 3.94")	
<b>Weight</b>		0.42 kg (0.93 lb)	0.93 kg (2.05 lb)	
<b>Ingress Protection</b>		IP67	IP67	
<b>Vandal Resistance</b>		IK10 for metal casing	IK10	

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



## AI Camera (Part 18 – Cloud Series)

		GV-GBL4900	GV-GBL4911	GV-GBLP8900	
					
<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 x 2	
<b>Picture Elements</b>		2688 (H) x 1520 (V)	2688 (H) x 1520 (V)	4640 (H) x 1760 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.005 Lux (F1.6, AGC ON)	0.005 Lux (F1.6, AGC ON)	0.0032 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>		Automatic / Manual (1/3 ~ 1/100000 sec)	Automatic, Manual (1/3 ~ 1/100000 sec)	Automatic, Manual (1/3 ~ 1/100000 sec)	
<b>White Balance</b>		Automatic, Manual	Automatic, Manual	Automatic, Manual	
<b>Gain Control</b>		Automatic, Manual	Automatic, Manual	Automatic, Manual	
<b>S/N Ratio</b>		50 dB	50 dB	50 dB	
<b>WDR</b>		WDR Pro	WDR Pro	Yes	
<b>Dynamic Range</b>		120 dB	120 dB	90 dB	
<b>Operation</b>					
<b>Video Compression</b>		H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	
<b>Video Streaming</b>		Triple streams	Triple streams	Triple streams	
<b>Frame Rate</b>		30 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz)	30 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz)	30 fps at 4640 x 1760 / 3632 x 1632 / 3200 x 1200 / 2304 x 864 / 2048 x 768 / 1600 x 608 / 1200 x 448 / 960 x 368 / 640 x 240 (60 Hz)	
		25 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)	25 fps at 2688 x 1520 / 2592 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)	25 fps at 4640 x 1760 / 3632 x 1632 / 3200 x 1200 / 2304 x 864 / 2048 x 768 / 1600 x 608 / 1200 x 448 / 960 x 368 / 640 x 240 (50 Hz)	
<b>Audio Compression</b>		G.711	G.711	G.711	
<b>Audio Support</b>		Two-way Audio (external speaker required)	Two-way Audio (external speaker required)	Two-way audio	
<b>Sensor Input</b>		1 Input (dry contact, NO / NC)	1 Input (dry contact, NO / NC)	1 Input, dry contact, NO / NC	
<b>Alarm Output</b>		1 relay output (30V DC, 1A / 125V AC, 0.3A)	1 relay output (30V DC, 1A / 125V AC, 0.3A)	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)	Yes (with removable IR-cut filter)	
<b>Lens Type</b>		Fixed	Motorized	Fixed	
<b>Focal Length</b>		2.8 mm	2.8 – 12 mm	2.8 mm	
<b>Maximum Aperture</b>		F/1.6	F/1.3	F/1.6	
<b>Mount</b>		M12	Ø14	M12	
<b>Horizontal FOV</b>		95.3°	100° - 28.9°	180°	
<b>Operation</b>	<b>Focus</b>	Fixed	Auto / Manual	Fixed	
	<b>Zoom</b>	Fixed	4.3x	Fixed	
	<b>Iris</b>	Fixed	DC	Fixed	
<b>Active Deterrence</b>		N/A	N/A	1 red and blue LED	
<b>IR LED Quantity</b>		2 IR LEDs	4 IR LEDs	2 IR LEDs	
<b>Max. IR Distance</b>		50 m (165 ft)	70 m (230 ft)	30 m (100 ft)	
<b>Warm LED Quantity</b>		N/A	N/A	2 Warm LEDs	
<b>Max. Warm LED Light Distance</b>		N/A	N/A	20 m (65 ft)	
<b>Video Resolution</b>					
<b>Main Stream</b>		2688 x 1520 (Default), 2592 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080	2688 x 1520 (Default), 2592 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080	4640 x 1760 (Default), 3632 x 1632, 3200 x 1200, 2304 x 864	
<b>Sub Stream</b>		1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 x 240	1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 x 240	2048 x 768 (Default), 1600 x 608, 1200 x 448	
<b>Third Stream</b>		1280 x 720 (Default), 704 x 576, 704 x 480, 480 x 240, 352 x 288, 352 x 240	1280 x 720 (Default), 704 x 576, 704 x 480, 480 x 240, 352 x 288, 352 x 240	1200 x 448 (Default), 960 x 368, 640 x 240	
<b>Network</b>					
<b>Interface</b>		10/100 Ethernet	10/100 Ethernet	10/100 Ethernet	
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	0 ~ 360°	0 ~ 360°	
	<b>Tilt</b>	0° ~ 90°	0 ~ 90°	0 ~ 90°	
	<b>Rotate</b>	0° ~ 360°	0 ~ 360°	0 ~ 360°	
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	DC Jack, PoE	DC jack	
	<b>Ethernet</b>	RJ-45	RJ-45	RJ-45 connector	
	<b>Audio</b>	Built-in microphone	Yes	Built-in microphone	Yes
		External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)	External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)
		Built-in speaker	No	Built-in speaker	No
		External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)	External speaker required	Yes (audio jack, 3.5 mm or 0.14 in)
		* Choose either the built-in or external option for devices with a microphone or speaker. * The Audio In port only supports microphones with a power supply.		* Choose either the built-in or external option for devices with a microphone or speaker. * The Audio In port only supports microphones with a power supply.	
<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm (0.14")	4-pin terminal block pitch 3.5 mm (0.14")	4-pin terminal block pitch 3.5 mm (0.14")		
<b>Local Storage</b>	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	microSD card slot (SD / SDHC / SDXC), up to 256 GB		




General			
<b>Operating Temperature</b>	-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)
<b>Humidity</b>	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)
<b>Power Source</b>	DC 12V, 1A / PoE (IEEE 802.3af)	DC 12V / PoE (IEEE 802.3af)	DC 12 V, 1.25 A / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>	10 W	12.5 W	DC 12 V: Max. 9 W PoE: Max. 10.2 W
<b>Certification</b>	CE, FCC, RoHS, UKCA, UL compliant	CE, FCC, RoHS, UKCA, UL compliant	CE, FCC, RoHS, UKCA, UL compliant
<b>Dimensions</b>	218.1 x 70.4 x 79.5 mm (8.58 x 2.77 x 3.12")	272.3 x 94.9 x 88.9 mm (10.72 x 3.73 x 3.5")	225.9 x 102.3 x 85.8 mm (8.9 x 4.0 x 3.4 in)
<b>Weight</b>	0.67 kg (1.48 lb)	0.93 kg (2.05 lb)	0.906 kg (2.0 lb)
<b>Ingress Protection</b>	IP67	IP67	IP67
<b>Vandal Resistance</b>	IK10 for metal casing	IK10 for metal casing	N/A

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





**AI Camera (Part 19 – Dual-Sensor)**

		<b>GV-TMS8800</b>	
			
<b>Camera</b>			
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS	
<b>Picture Elements</b>		2688 (H) x 1520 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.002 Lux (F1.6, 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>		52 dB	
<b>WDR</b>		WDR Pro	
<b>Dynamic Range</b>		130 dB	
<b>Operation</b>			
<b>Video Compression</b>		H.265, H.264, MJPEG	
<b>Video Streaming</b>		Triple streams	
<b>Frame Rate</b>		25 fps at 2688 x 1520, 2560 x 1440, 30 fps at 2304 x 1296, 1920 x 1080, 1280 x 720 (60 / 50 Hz)	
<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, NO / NC)	
<b>Alarm Output</b>		1 relay output (30V DC, 1A / 125V AC, 0.3A)	
<b>Optical Lens</b>			
<b>Day/Night</b>		Yes (with removable IR-cut filter)	
<b>Lens Type</b>		Fixed	
<b>Focal Length</b>		2.8 mm	
<b>Maximum Aperture</b>		F/1.6	
<b>Mount</b>		Ø 12 mm	
<b>Horizontal FOV</b>		97.7°	
<b>Operation</b>	<b>Focus</b>	Fixed	
	<b>Zoom</b>	Fixed	
	<b>Iris</b>	Fixed	
<b>IR LED Quantity</b>		2 IR LEDs	
<b>Max. IR Distance</b>		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	
<b>Sub Stream</b>		1280 x 720, 720 x 576, 704 x 288, 640 x 480, 640 x 360 (Default), 352 x 288	
<b>Third Stream</b>		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° ~ 180°	
	<b>Tilt</b>	0° ~ 66°	
	<b>Rotate</b>	0° ~ 346°	
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	
	<b>Ethernet</b>	RJ-45	
	<b>Audio</b>	Built-in microphone	Yes
		External microphone required	Yes (3-pin terminal block)
		Built-in speaker	No
		External speaker required	Yes (3-pin terminal block)
	*Choose either the built-in or external microphone.		
	*The audio in port only supports microphones with power supply.		
	<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm (0.14")	
	<b>Local Storage</b>	microSD 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)	
<b>Humidity</b>		0 ~ 95% (no condensation)	
<b>Power Source</b>		DC 12V, 1.25A / PoE (IEEE 802.3af)	
<b>Max. Power Consumption</b>		9.1 W	
<b>Certification</b>		FCC, CE, RoHS, UKCA compliant	
<b>Dimensions</b>		176 × 104 × 72 mm (6.9" × 4.1" × 2.8")	
<b>Weight</b>		0.62 kg (1.37 lb)	
<b>Ingress Protection</b>		IP67	
<b>Vandal Resistance</b>		IK10 for metal casing	

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






## AI Camera (Part 20 – Quad-Sensor)

		GV-RMS32810	GV-TMS20811
			
<b>Camera</b>			
<b>Image Sensor</b>		1/1.8" progressive scan super low lux CMOS	1/2.7" progressive scan super low lux CMOS
<b>Picture Elements</b>		3840 (H) x 2160 (V)	2880 (H) x 1620 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.006 Lux (F1.2, AGC ON)	0.002 Lux (F1.2, AGC ON)
	<b>B/W</b>	0.002 Lux	0.001 Lux (F1.2, AGC ON)
	<b>IR ON</b>	0 Lux	0 Lux
<b>Shutter Speed</b>		Automatic / Manual (1/5 ~ 1/20000 sec)	Automatic / Manual (1 ~ 1/100000 sec)
<b>White Balance</b>		Automatic, Manual	Automatic, Manual
<b>Gain Control</b>		Automatic, Manual	Automatic, Manual
<b>S/N Ratio</b>		50 dB	52 dB
<b>WDR</b>		WDR Pro	WDR Pro
<b>Dynamic Range</b>		120 dB	130 dB
<b>Operation</b>			
<b>Video Compression</b>		H.265, H.264	H.265, H.264, MJPEG
<b>Video Streaming</b>		Dual streams	Triple streams from H.265, H.264, or MJPEG
<b>Frame Rate</b>		25 fps at 3840 x 2160, 3072 x 1728, 2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080, 1280 x 960, 1280 x 720 (60 / 50 Hz)	30 fps at 2880 x 1620, 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 (60 / 50 Hz)
<b>Audio Compression</b>		G.711	G.711
<b>Audio Support</b>		Two-way Audio (external microphone and speaker required)	Two-way audio (external speaker required)
<b>Sensor Input</b>		2 input (dry contact, NO / NC)	3 input (dry contact, NO / NC)
<b>Alarm Output</b>		2 relay output (30V DC, 2A / 125V AC, 0.5A)	2 relay output (30V DC, 1A / 125V AC, 0.5A)
<b>Optical Lens</b>			
<b>Megapixel</b>		8 MP for each lens	5 MP for each lens
<b>Day/Night</b>		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
<b>Lens Type</b>		Motorized varifocal	Motorized varifocal
<b>Focal Length</b>		2.8 ~ 12 mm	2.7 ~ 13.5 mm
<b>Maximum Aperture</b>		F/1.30	F/1.2
<b>Mount</b>		Ø 16.7 mm	Ø 14 mm
<b>FOV</b>	<b>Horizontal</b>	48° ~ 112°	110.3° ~ 31°
	<b>Vertical</b>	N/A	57.1° ~ 17.5°
	<b>Diagonal</b>	N/A	143.4° ~ 38.1°
<b>Operation</b>	<b>Focus</b>	Auto / Manual	Auto / Manual
	<b>Zoom</b>	4.3x Optical Zoom	5x Optical Zoom
	<b>Iris</b>	DC	Fixed
<b>IR LED Quantity</b>		8 IR LEDs	9 IR LEDs
<b>Max. IR Distance</b>		30 m (100 ft)	50 m (165 ft)
<b>Warm LED Quantity</b>		8 Warm LEDs	N/A
<b>Max. Warm LED Light Distance</b>		15 m (50 ft)	N/A
<b>Video Resolution</b>			
<b>Main Stream</b>		3840 x 2160 (Default), 3072 x 1728, 2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080, 1280 x 960, 1280 x 720	2880 x 1620 (Default), 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, 720 x 576, 640 x 360, 704 x 288, 352 x 288
<b>Sub Stream</b>		1280 x 720 (Default), 640 x 480, 320 x 240	1920 x 1080 (Default), 1280 x 720, 720 x 576, 640 x 480, 640 x 360, 704 x 288, 352 x 288
<b>Third Stream (Closed by Default)</b>		N/A	720 x 576, 640 x 360, 704 x 288, 352 x 288
<b>Network</b>			
<b>Interface</b>		10/100/1000 Ethernet	10/100/1000 Ethernet
<b>Mechanical</b>			
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	0° ~ 360°
	<b>Tilt</b>	0° ~ 90°	0° ~ 65°
	<b>Rotate</b>	0° ~ 355°	0° ~ 355°
<b>Connectors</b>	<b>Power Input</b>	DC Jack	3-pin Power Input wire
	<b>Power Output</b>	N/A	2-pin terminal block with pitch 3.81 mm (0.15 in)
	<b>Ethernet</b>	RJ-45 connector	RJ-45 connector
	<b>Audio</b>	1 in (external microphone) 1 out (RCA) <small>*The Audio In port only supports microphones with power supply.</small>	1 in (built-in or external microphone) 1 out (3-pin terminal block with pitch 3.81 mm or 0.15 in) <small>*The Audio In port only supports microphones with power supply.</small>
	<b>Digital I/O</b>	4-pin terminal block pitch 3.5 mm (0.14")	4-pin terminal block with pitch 3.81 mm (0.15 in)
<b>Local Storage</b>	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) <small>*UHS-II card type is not supported.</small>	microSD card slot (SD / SDHC / SDXC), up to 512 GB	
<b>General</b>			
<b>Operating Temperature</b>		-30°C ~ 55°C (-22°F ~ 131°F)	-30°C ~ 60°C (-22°F ~ 140°F)
<b>Humidity</b>		0% ~ 90% (no condensation)	5% ~ 95% (no condensation)
<b>Power Source</b>		DC 12V, AC 24V / High PoE (IEEE 802.3bt, 60 W)	DC 24V, 2.5A / AC 24V, 2.5A / PoE++ (IEEE 802.3bt, 60 W)
<b>Max. Power Consumption</b>		43 W	48.7 W
<b>Power Output</b>		N/A	DC 12V, 100mA
<b>Certification</b>		CE, FCC, RoHS compliant	CE, FCC, RoHS compliant
<b>Dimensions</b>		Ø 300 mm x 175.31 mm (11.8" x 6.9")	Ø 318 x 136.6 mm (Ø 12.5 x 5.4 in)
<b>Weight</b>		4.6 kg (10.1 lb)	4.77 kg (10.52 lb)
<b>Ingress Protection</b>		IP67	IP67
<b>Vandal Resistance</b>		IK10 for metal casing	IK10 for metal casing

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



## AI Camera (Part 21 – AI ISP)

		GV-GEBN4800	GV-GDRN4800	GV-GBLN4800	
					
<b>Camera</b>					
<b>Image Sensor</b>		1/1.79" progressive scan CMOS sensor			
<b>Picture Elements</b>		2688 (H) x 1520 (V)			
<b>Minimum Illumination</b>	<b>Color</b>	0.0001 Lux (F1.0, AGC ON)			
	<b>B/W</b>	N/A			
	<b>LED ON</b>	0 Lux			
<b>Shutter Speed</b>		Automatic / Manual (1/3 ~ 1/100000 sec)			
<b>White Balance</b>		Automatic, Manual			
<b>Gain Control</b>		Automatic, Manual			
<b>S/N Ratio</b>		50 dB			
<b>WDR</b>		WDR Pro (supported in the next version)			
<b>Dynamic Range</b>		120 dB (supported in the future version)			
<b>Operation</b>					
<b>Video Compression</b>		H.265, H.265+, H.264, H.264+, MJPEG			
<b>Video Streaming</b>		Triple streams			
<b>Frame Rate</b>		30 fps at 2688 x 1520, 2560 x 1440, 1920 x 1080, 1280 x 720, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 240 (60 Hz) 25 fps at 2688 x 1520, 2560 x 1440, 1920 x 1080, 1280 x 720, 704 x 567, 640 x 480, 640 x 360, 480 x 240, 352 x 288 (50 Hz)			
<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>		Color			
<b>Lens Type</b>		Fixed			
<b>Focal Length</b>	2F	2.8 mm			
	3F	3.6 mm			
<b>Maximum Aperture</b>		F/1.0			
<b>Mount</b>		M12			
<b>Horizontal FOV</b>	2F	112°			
	3F	96°			
<b>Operation</b>	<b>Focus</b>	Auto / Manual	Auto / Manual	Fixed	
	<b>Zoom</b>		Fixed		
	<b>Iris</b>		Fixed		
<b>Active Deterrence</b>		N/A			
<b>Warm LED Quantity</b>		3 Warm LEDs	2 White LEDs	3 Warm LEDs	
<b>Max. Warm LED Light Distance</b>		30 m (100 ft)	20 m (65 ft)	30 m (100 ft)	
<b>Video Resolution</b>					
<b>Main Stream</b>		2688 x 1520 (Default), 2560 x 1440, 1920 x 1080			
<b>Sub Stream</b>		1280 x 720 (Default), 704 x 480, 704 x 567, 640 x 480, 640 x 360, 480 x 240, 352 x 240, 352 x 288			
<b>Third Stream</b>		1280 x 720 (Default), 704 x 480, 704 x 567, 640 x 480, 640 x 360, 480 x 240, 352 x 240, 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° ~ 355°	0° ~ 360°	
	<b>Tilt</b>	0° ~ 80°	0° ~ 70°	0° ~ 90°	
	<b>Rotate</b>	0° ~ 360°	0° ~ 180°	0° ~ 360°	
<b>Connectors</b>	<b>Power</b>	DC Jack			
	<b>Ethernet</b>	RJ-45			
	<b>Audio</b>	Built-in microphone	Yes		
		External microphone required	Yes (audio jack, 3.5 mm or 0.14 in)		
		Built-in speaker	No		
		External speaker required	No		
	* Choose either the built-in or external option for devices with a microphone or speaker.				
* The Audio In port only supports microphones with a power supply.					
<b>Digital I/O</b>	N/A				
<b>Local Storage</b>	microSD card slot (SD / SDHC / SDXC), up to 512 GB				
<b>General</b>					
<b>Operating Temperature</b>		-30 ~ 60°C (-22 ~ 140°F)			
<b>Humidity</b>		0 ~ 95% (no condensation)			
<b>Power Source</b>		12V DC / PoE (IEEE802.3af)			
<b>Max. Power Consumption</b>		6.5 W	7 W	6.5 W	
<b>Certification</b>		CE, FCC, RoHS compliant			
<b>Dimensions</b>		∅ 111.6 x 99.3 mm (∅ 4.39" x 3.91")	∅ 119 x 87.8 mm (∅ 4.7" x 3.46")	218.1 x 70.4 x 79.5 mm (8.58" x 2.77" x 3.12")	
<b>Weight</b>		0.62 kg (1.37 lb)	0.64 kg (1.41 lb)	0.71 kg (1.57 lb)	
<b>Ingress Protection</b>		IP67			
<b>Vandal Resistance</b>		IK10 for metal casing			

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