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Box Camera

		GV-BX4700 GV-BX4700-3V Varifocal Lens
		
Camera		
Image Sensor		1/3" progressive scan super low lux CMOS
Picture Elements		2592 (H) x 1520 (V)
Minimum Illumination	**Color**	0.03 Lux
	B/W	0.02 Lux
	IR ON	0 Lux
Shutter Speed		Automatic, Manual (1/5 ~ 1/16000 sec)
White Balance		Automatic, Manual (2800 ~ 8500K)
Gain Control		Automatic, Manual (1/5 ~ 1/16000 sec)
S/N Ratio		50 dB
WDR Pro (with WDR sensor)		Yes
Dynamic Range		Up to 120 dB
Operation		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Triple streams from H.265, H.264 or MJPEG
Frame Rate		20 fps at 2592 x 1520, 24 fps at 2560 x 1440, 30 fps at 2048 x 1520
Audio Compression		G.711
Audio Support		Two-way Audio (external speaker required)
Sensor Input		1 Input (Dry Contact)
Alarm Output		1 Digital Output (5V DC, 200 mA)
Optical Lens		
Day/Night		Yes (with removable IR-cut filter)
Lens Type		Varifocal Lens
Focal Length		3 ~ 10.5 mm
Maximum Aperture		F/1.4
Mount		CS Mount
Image Format		1/2.7”
Horizontal FOV		78° ~ 31°
Operation	**Focus**	Manual (w/lock)
	Zoom	Manual (w/lock)
	Iris	P-Iris
Mechanical		
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)
	Digital I/O	3-pin terminal block, pitch 2.5 mm/0.1’’
	Auto Iris	Yes (with varifocal lens)
	Local Storage	microSD card slot (SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.
	TV-Out	BNC connector (640 x 480 resolution)
	Mini USB	GV-WiFi Adapter or USB hard drive
LED Indicator		2 LEDs: Power, Status
General		
Environment Temperature		0 °C ~ 50 °C (32 °F ~ 122 °F)
Humidity		10% to 90% (no condensation)
Power Source		12V DC / PoE (IEEE 802.3af)
Max. Power Consumption		4.9 W
Certification		CE, FCC, RCM, LVD, RoHS compliant
Dimensions		75.5 x 75 x 54 mm (2.97’’ x 2.95’’ x 2.13’’)
Weight		350 g (0.77 lb)

Note:

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

Vandal Proof Dome (Part 1)

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

Note:

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

Vandal Proof Dome (Part 2)

		GV-VD2702
		
Camera		
Image Sensor		1/1.8" 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 ~ 1/16000 sec)
White Balance		Auto, Manual (2800K ~ 8500K)
Gain Control		Automatic
S/N Ratio		56 dB
WDR Pro (with WDR sensor)		Yes
Dynamic Range		Up to 130 dB
Operation		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Stream 1 from H.265 or H.264 Stream 2 from H.265, H.264 or MJPEG Stream 3 from H.265, H.264 or MJPEG
Frame Rate		30 fps at 1920 x 1080
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, 200mA)
Optical Lens		
Day/Night		Yes (with removable IR-cut filter)
Lens Type		Varifocal Lens
Focal Length		2.8 ~ 12 mm
Maximum Aperture		F/1.7
Mount		Ø14 mm
Image Format		1/2.7''
Horizontal FOV		110° ~ 38°
Operation	**Focus**	Manual (w/lock)
	Zoom	Manual (w/lock)
	Iris	P-Iris
IR LED Quantity		4 IR LEDs
Max. IR Distance		30 m (100 ft)
Mechanical		
Camera Angle Adjustment	**Pan**	0° ~ 350°
	Tilt	0° ~ 75°
	Rotate	0° ~ 340°
3-axis Mechanism		Yes
Temperature Detector		Yes
Connectors	**Power**	2-pin terminal block, 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.
	TV-Out	BNC connector (640 x 480 resolution)
LED Indicator		2 LEDs: Power, Status
General		
Environment Temperature	**Start-up**	-20 °C ~ 60 °C (-4 °F ~ 140 °F)
	Operation	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Humidity		10% ~ 90% (no condensation)
Power Source		12V DC / PoE (IEEE 802.3af)
Max. Power Consumption		8.64 W
Certification		CE, FCC, RCM, LVD, RoHS compliant
Dimensions		ø160 x 108.4 mm (ø 6.2" x 4.27")
Weight		1.15 kg (2.54 lb)
Ingress Protection		IP67
Vandal Resistance		IK10 for metal casing

Note:

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

Mini Fixed Dome

		GV-TFD4700
		
Camera		
Image Sensor		1/3" progressive scan super low lux CMOS
Picture Elements		2688 (H) x 1520 (V)
Minimum Illumination	**Color**	0.01 Lux (F2.0, AGC ON)
	B/W	0 Lux
	IR ON	N/A
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)
White Balance		Auto / Manual
Gain Control		Auto / Manual
S/N Ratio		52 dB
WDR Pro (with WDR Sensor)		Yes
Dynamic Range		120 dB
Operation		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Triple streams from H.265, H.264 or MJPEG
Frame Rate		30 fps at 2688 x 1520, 30 fps at 2560 x 1440, 30 fps at 1920 x 1080
Audio Compression		G.711
Audio Support		Two-way Audio (external speaker required)
Optical Lens		
Day/Night		Yes (with removable IR-cut filter)
Lens Type		Fixed
Focal Length		2.8 mm
Maximum Aperture		F/2.0
Mount		M12
Image Format		1/3”
Horizontal FOV		95°
Operation	**Focus / Zoom / Iris**	Fixed
Mechanical		
Camera Angle Adjustment	**Pan**	3° ~ 360°
	Tilt	0° ~ 68°
	Rotate	3° ~ 360°
Temperature Detector		No
Pigtail-Free		Yes
Connectors	**Power**	2-pin terminal block, 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)
General		
Environment Temperature		-35°C ~ 60°C (-31°F ~ 140°F)
Humidity		0% ~ 95% (no condensation)
Power Source		12V DC / PoE (IEEE802.3af)
Max. Power Consumption		5.5 W
Certification		FCC, CE, RoHS, UL compliant
Dimensions		Ø 108.6 x 61.8mm (Ø4.28” x 2.43”)
Weight		0.22 kg (0.49 lb)

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

Target Series (Part 1)

		GV-TBL2705	GV-TBL2706	GV-TBL2718
				
Camera				
Image Sensor		1/2.7" progressive scan low lux CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS
Picture Elements		1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Minimum Illumination	**Color**	0.01 Lux (F2.0, AGC ON)	0.01 Lux (F2.0, AGC ON)	0.003 Lux (F1.6, AGC ON)
	B/W	N/A	N/A	N/A
	IR ON	0 Lux	0 Lux	0 Lux
Shutter Speed		Auto / Manual (1 ~ 1/100,000 sec)	Auto / Manual (1 ~ 1/100,000 sec)	Auto / Manual (1 ~ 1/100,000 sec)
White Balance		Auto / Manual	Auto / Manual	Auto / Manual
Gain Control		Auto / Manual	Auto / Manual	Auto / Manual
S/N Ratio		52 dB	52 dB	52 dB
WDR		Yes	Yes	WDR Pro
Dynamic Range		Up to 120 dB	Up to 120 dB	Up to 120 dB
Operation				
Video Compression		H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Video Streaming		Dual 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
Audio Compression		G.711	G.711	G.711
Audio Support		One-way Audio	One-way Audio	One-way Audio
Optical Lens				
Day/Night		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Lens Type		Fixed	2F / 4F: Fixed	Motorized Varifocal
Focal Length		4 mm	2F: 2.8 mm 4F: 4 mm	2.8 ~ 12 mm
Maximum Aperture		F/2.0	2F / 4F: F/2.0	F/1.6
Mount		M12	Ø 12 mm	Ø 12 mm
Image Format		1/2.7”	1/2.7”	1/2.7”
Horizontal FOV		91.2°	2F: 112.9° 4F: 91.2°	103.6 ~ 33.4°
Operation	**Focus**	Fixed	Fixed	Auto / Manual
	Zoom			4.3x Optical Zoom
	Iris			Fixed
IR LED Quantity		1 IR LED	I IR LED	3 IR LEDs
Max. IR Distance		30 m (100 ft)	30 m (100 ft)	50 m (165 ft)
Mechanical				
Camera Angle Adjustment	**Pan**	0° ~ 360°	0° ~ 360°	0° ~ 360°
	Tilt	0° ~ 90°	0° ~ 90°	0° ~ 90°
	Rotate	0° ~ 360°	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	1 In (built-in microphone)	1 In (built-in microphone)	1 In (built-in microphone)
	Digital I/O	N/A	N/A	N/A
	Local Storage	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.
	TV Out	N/A	N/A	
General				
Environment Temperature	**Startup**	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
	Operation			
Humidity		10% ~ 90% (no condensation)	0% ~ 95% (no condensation)	0% ~ 95% (no condensation)
Power Source		12V DC / PoE (IEEE 802.3af)	1.24A 12V DC / PoE (IEEE 802.3af)	12V DC, 1.25A / PoE (IEEE 802.3af)
Max. Power Consumption		6.0 W	7.0 W	9.6 W
Certification		FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant
Dimensions (L X W X H)		162 × 69 × 69 mm (6.4” × 2.7” × 2.7”)	161.9 × 68.7 × 68.5 mm (6.4” × 2.7” × 2.7”)	206 × 73 × 73 mm (8.1” × 2.9” × 2.9”)
Weight		0.45 kg (0.99 lb)	0.39 kg (0.86 lb)	0.51 kg (1.12 lb)
Ingress Protection		IP67	IP67	IP67
Vandal Resistance		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 2)

		GV-ABL4701	GV-TBL4703	GV-TBL4705	GV-TBL4700
					
Camera					
Image Sensor		1/3" progressive scan super low lux CMOS	1/3" progressive scan super low lux CMOS	1/3" progressive scan super low lux CMOS	1/3" progressive scan super low lux CMOS
Picture Elements		2592 (H) x 1520 (V)	2592 (H) x 1520 (V)	2688 (H) x 1520 (V)	2592 (H) x 1520 (V)
Minimum Illumination	**Color**	0.02 Lux (F1.8, AGC ON)	0.03 Lux (F2.0, AGC ON)	0.003 Lux (F1.6, AGC ON)	0.01 Lux (F1.6, AGC ON)
	B/W	N/A	N/A	N/A	N/A
	IR ON	0 Lux	0 Lux	0 Lux	0 Lux
Shutter Speed		Auto / Manual (1/6 ~ 1/100000 sec)	Auto / Manual (1/6 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1/25 ~ 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	56 dB	52 dB
WDR		Yes	Yes	Yes	Yes
Dynamic Range		Up to 72 dB	Up to 72 dB	Up to 120 dB	Up to 72 dB
Operation					
Video Compression		H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Video Streaming		Triple streams	Triple streams	Dual streams	Triple streams
Frame Rate		20 fps at 2592 x 1520 25 fps at 2560 x 1440 30 fps at 2048 x 1520	20 fps at 2592 x 1520	30 fps at 2688 x 1520	20 fps at 2592 x 1520
Audio Compression		N/A	N/A	N/A	N/A
Audio Support		N/A	N/A	N/A	N/A
Optical Lens					
Day/Night		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Lens Type		Fixed	Fixed	Fixed	Varifocal
Focal Length	0F / 1F	4 mm / 6 mm	4 mm	4 mm	2.8 ~ 12 mm
Maximum Aperture	0F / 1F	F/1.8	F/2.0	F/1.6	F/1.6
Mount		M12	M12	M12	Ø14 mm
Image Format	0F / 1F	1/3"	1/3"	1/3"	1/2.8"
Horizontal FOV	0F	78°	80°	83.7°	96° ~ 32°
	1F	49°			
Operation	**Focus**	Fixed	Fixed	Fixed	Manual (with lock)
	Zoom				Manual (with lock)
	Iris				Fixed
IR LED Quantity		1 IR LED	1 IR LED	2 IR LED	2 IR LEDs
Max. IR Distance		30 m (100 ft)	30 m (100 ft)	50 m (165 ft)	30 m (100 ft)
Mechanical					
Camera Angle Adjustment	**Pan**	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°
	Tilt	0° ~ 90°	0° ~ 90°	0° ~ 90°	0° ~ 120°
	Rotate	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°
Connectors	**Power**	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable	Ethernet (10/100 Base-T), RJ-45 cable	Ethernet (10/100 Base-T), RJ-45 cable	Ethernet (10/100 Base-T), RJ-45 cable
	Audio	N/A	N/A	N/A	N/A
	Digital I/O	N/A	N/A	N/A	N/A
	Local Storage	N/A	N/A	N/A	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported.
	TV Out	N/A	N/A	N/A	N/A
General					
Environment Temperature	**Startup**	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-35°C ~ 60°C (-31°F ~ 140°F)
	Operation				
Humidity		0% ~ 95% (no condensation)	10% ~ 90% (no condensation)	0% ~ 95% (no condensation)	0% ~ 95% (no condensation)
Power Source		12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)
Max. Power Consumption		5.5 W	4 W	6 W	7 W
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)		162.9 × 62.4 × 62.7 mm (6.4" × 2.5" × 2.5")	162.9 × 62.4 × 62.7 mm (6.4" × 2.5" × 2.5")	162 × 69 × 69 mm (6.4" × 2.7" × 2.7")	244 × 96 × 74 mm (9.6" × 3.8" × 2.9")
Weight		0.25 kg (0.55 lb)	0.37 kg (0.81 lb)	0.45 kg (0.99 lb)	1 kg (2.2 lb)
Ingress Protection		IP66	IP67	IP67	IP67
Vandal Resistance		N/A	N/A	N/A	IK10 for metal casing

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

Target Series (Part 3)

		GV-ABL4712	GV-TBL4711
			
Camera			
Image Sensor		1/3" progressive scan super low lux CMOS	
Picture Elements		2592 (H) x 1520 (V)	2688 (H) x 1520 (V)
Minimum Illumination	**Color**	0.005 Lux (F1.4, AGC ON)	0.003 Lux (F1.6, AGC ON)
	B/W	N/A	
	IR ON	0 Lux	
Shutter Speed		Auto / Manual (1/6 ~ 1/100000 sec)	
White Balance		Auto / Manual	
Gain Control		Auto / Manual	
S/N Ratio		52 dB	
WDR		WDR Pro	
Dynamic Range		Up to 120 dB	
Operation			
Video Compression		H.265, H.264, MJPEG	
Video Streaming		Triple streams	
Frame Rate		20 fps at 2592 x 1520 25 fps at 2560 x 1440 30 fps at 2048 x 1520	30 fps at 2688 x 1520 30 fps at 2560 x 1440 30 fps at 2304 x1296
Audio Compression		G.711	
Audio Support		Two-way Audio (external microphone and speaker required)	
Optical Lens			
Day/Night		Yes (with removable IR-cut filter)	
Lens Type		Motorized varifocal	
Focal Length		2.8 ~ 12 mm	
Maximum Aperture		F/1.4	F/1.6
Mount		Ø14 mm	
Image Format		1/3”	
Horizontal FOV		27° ~ 91°	31 ~ 98°
Operation	**Focus**	Auto / Manual	
	Zoom	4.3x optical zoom	
	Iris	Fixed	
IR LED Quantity		2 IR LEDs	3 IR LEDs
Max. IR Distance		30 m (100 ft)	50 m (165 ft)
Mechanical			
Camera Angle Adjustment	**Pan**	0° ~ 360°	
	Tilt	0° ~ 120°	
	Rotate	0° ~ 360°	
Connectors	**Power**	DC Jack, PoE	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable	
	Audio	1 In (Audio In Wire), 1 Out (Audio Out Wire)	
	Digital I/O	4-pin terminal block, pitch 3.5 mm (0.14”)	
	Local Storage	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) * UHS-II card type is not supported.	
	TV Out	N/A	
General			
Environment Temperature	**Startup**	-35°C ~ 60°C (-31°F ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)
	Operation		
Humidity		0% ~ 95% (no condensation)	
Power Source		12V DC / PoE (IEEE 802.3af)	
Max. Power Consumption		9 W	9.5 W
Certification		FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant
Dimensions (L X W X H)		244 × 96 × 74 mm (9.6” × 3.8” × 2.9”)	
Weight		0.58 kg (1.28 lb)	1.0 kg (2.2 lb)
Ingress Protection		IP67	
Vandal Resistance		IK10 for metal casing	

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

Target Series (Part 4)

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

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

Target Series (Part 5)

		GV-TDR2702	GV-TDR2705
			
Camera			
Image Sensor		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)
Minimum Illumination	**Color**	0.02 Lux (F2.0, AGC ON)	0.01 Lux (F2.0, AGC ON)
	B/W	N/A	N/A
	IR ON	0 Lux	0 Lux
Shutter Speed		Auto / Manual (1/6 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)
White Balance		Auto / Manual	Auto / Manual
Gain Control		Auto / Manual	Auto / Manual
S/N Ratio		52 dB	52 dB
WDR		Yes	WDR Pro
Dynamic Range		Up to 72 dB	Up to 120 dB
Operation			
Video Compression		H.265, H.264, MJPEG	H.265, H.264, MJPEG
Video Streaming		Triple streams	Dual streams
Frame Rate		30 fps at 1920 x 1080	30 fps at 1920 x 1080
Audio Compression		N/A	G.711
Audio Support		N/A	One-way audio
Digital I/O	**Input**	N/A	N/A
	Output	N/A	N/A
Optical Lens			
Day/Night		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Lens Type		Fixed	Fixed
Focal Length		0F: 2.8 mm 1F: 4.0 mm	2.8 mm
Maximum Aperture		F/1.6	F/2.0
Mount		M12	Ø 12 mm
Image Format		1/2.7”	1/2.7”
Horizontal FOV		0F: 110° 1F: 83°	112.9°
Operation	**Focus**	Fixed	Fixed
	Zoom		
	Iris		
IR LED Quantity		1 IR LED	1 IR LED
Max. IR Distance		30 m (100 ft)	30 m (100 ft)
Mechanical			
Camera Angle Adjustment	**Pan**	0° ~ 360°	3° ~ 360°
	Tilt	0° ~ 75°	0° ~ 68°
	Rotate	N/A	3° ~ 360°
Connectors	**Power**	DC Jack, PoE	DC Jack, PoE
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable	Ethernet (10/100 Base-T), RJ-45 cable
	Audio	N/A	1 In (built-in microphone)
	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
General			
Environment Temperature		-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)
Power Source		12V DC / PoE (IEEE 802.3af)	1.25A 12V DC / PoE (IEEE802.3af)
Max. Power Consumption		4.5 W	5.0 W
Certification		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 83 mm (Ø 4.3” x 3.3”)
Weight		0.3 kg (0.66 lb)	0.36 kg (0.79 lb)
Ingress Protection		IP67	IP67
Vandal Resistance		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 6)

		GV-TDR4700	GV-TDR4702
			
Camera			
Image Sensor		1/3" progressive scan super low lux CMOS	
Picture Elements		2592(H) x 1520 (V)	
Minimum Illumination	**Color**	0.03 Lux (F2.0, AGC ON)	0.03 Lux (F2.0, AGC ON)
	B/W	N/A	
	IR ON	0 Lux	
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1/6 ~ 1/100000 sec)
White Balance		Auto / Manual	
Gain Control		Auto / Manual	
S/N Ratio		52 dB	
WDR		WDR Pro	Yes
Dynamic Range		Up to 120 dB	Up to 72 dB
Operation			
Video Compression		H.265, H.264, MJPEG	
Video Streaming		Triple streams	
Frame Rate		20 fps at 2592 x 1520 25 fps at 2560 x 1440 30 fps at 2048 x 1520	20 fps at 2592 x 1520
Audio Compression		G.711	N/A
Audio Support		Two-way Audio (external microphone and speaker required)	N/A
Digital I/O	**Input**	1 Input (dry contact, NO / NC)	N/A
	Output	1 Relay Output (1A 30V DC / 0.3A 125V AC)	N/A
Optical Lens			
Day/Night		Yes (with removable IR-cut filter)	
Lens Type		Fixed	
Focal Length	0F	2.8 mm	2.8 mm
	1F	3.6 mm	4.0 mm
Maximum Aperture		F/2.0	F/2.0
Mount		M12	
Image Format		1/3”	
Horizontal FOV	0F	100°	101°
	1F	78°	76°
Operation	**Focus**	Fixed	
	Zoom		
	Iris		
IR LED Quantity		1 IR LED	
Max. IR Distance		30 m (100 ft)	
Mechanical			
Camera Angle Adjustment	**Pan**	0° ~ 360°	
	Tilt	0° ~ 75°	0° ~ 75°
	Rotate	0° ~ 360°	N/A
Connectors	**Power**	DC Jack, PoE	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable	
	Audio	2 In (Audio In Wire) 1 Out (Audio Out Wire)	N/A
	Local Storage	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.	N/A
LED Indicator		N/A	
General			
Environment Temperature		-30°C ~ 60°C (-22°F ~ 140°F)	
Humidity		0% ~ 95% (no condensation)	0% ~ 90% (no condensation)
Power Source		12V DC / PoE (IEEE 802.3af)	
Max. Power Consumption		5 W	4.5 W
Certification		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”)	
Weight		0.3 kg (0.66 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 7)

		GV-EBD2704	GV-EBD2705
			
Camera			
Image Sensor		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)
Minimum Illumination	**Color**	0.01 Lux (F2.0, AGC ON)	0.01 Lux (F2.0, AGC ON)
	B/W	N/A	N/A
	IR ON	0 Lux	0 Lux
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)
White Balance		Auto / Manual	Auto / Manual
Gain Control		Auto / Manual	Auto / Manual
S/N Ratio		52 dB	52 dB
WDR		Yes	Yes
Dynamic Range		Up to 120 dB	Up to 120 dB
Operation			
Video Compression		H.265, H.264, MJPEG	H.265, H.264, MJPEG
Video Streaming		Dual streams	Dual streams
Frame Rate		30 fps at 1920 x 1080	30 fps at 1920 x 1080
Audio Compression		G.711	G.711
Audio Support		One-way Audio	One-way Audio
Optical Lens			
Day/Night		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Lens Type		Fixed	Fixed
Focal Length		2.8 mm	2.8 mm
Maximum Aperture		F/2.0	F/2.0
Mount		M12	Ø 12 mm
Image Format		1/2.7”	1/2.7”
Horizontal FOV		113°	112.9°
Operation	**Focus**	Fixed	Fixed
	Zoom		
	Iris		
IR LED Quantity		1 IR LED	1 IR LED
Max. IR Distance		30 m (100 ft)	30 m (100 ft)
Mechanical			
Camera Angle Adjustment	**Pan**	0° ~ 360°	0° ~ 360°
	Tilt	0° ~ 90°	0° ~ 80°
	Rotate	0° ~ 360°	0° ~ 360°
3-axis Mechanism		Yes	Yes
Connectors	**Power**	DC Jack, PoE	DC Jack, PoE
	Ethernet	RJ-45 connector (10/100 Base-T)	RJ-45 connector (10/100 Base-T)
	Audio	1 In (built-in microphone)	1 In (built-in microphone)
	TV-Out	N/A	N/A
	Local Storage	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
Temperature Detector			
General			
Environment Temperature	**Start-up Operation**	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Humidity		10% ~ 90% (no condensation)	0% ~ 95% (no condensation)
Power Source		12V DC / PoE (IEEE802.3af)	1.25A 12V DC / PoE (IEEE802.3af)
Max. Power Consumption		7.0 W	7.0 W
Certification		FCC, CE, RoHS, UL compliant	FCC, CE, RoHS, UL compliant
Dimensions (L X W X H)		Ø 126 x 94 mm (Ø 5.0” x 3.7”)	Ø 126 x 92.7 mm (Ø 5.0” x 3.6”)
Weight		0.45 kg (0.99 lb)	0.45 kg (0.99 lb)
Ingress Protection		IP67	IP67
Vandal Resistance		N/A	N/A

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

Target Series (Part 8)

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

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

Target Series (Part 9)

		GV-AVD2700	GV-TVD2712	GV-TVD4700	GV-TVD4710
					
Camera					
Image Sensor		1/2.8" progressive scan low lux CMOS	1/2.7" progressive scan low lux CMOS	1/3" progressive scan super low lux CMOS	
Picture Elements		1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	2592(H) x 1520 (V)	2592 (H) x 1520 (V)
Minimum Illumination	**Color**	0.001 Lux (F1.6, AGC ON)	0.003 Lux (F1.6, AGC ON)	0.01 Lux (F1.6, AGC ON)	0.005 Lux (F1.4, AGC ON)
	B/W	N/A			
	IR ON	0 Lux			
Shutter Speed		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)
White Balance		Auto / Manual			
Gain Control		Auto / Manual			
S/N Ratio		52 dB	52 dB	52 dB	56dB
WDR Pro		Yes			
Dynamic Range		Up to 120 dB	Up to 120 dB	Up to 72 dB	Up to 120 dB
Operation					
Video Compression		H.265, H.264, MJPEG			
Video Streaming		Triple streams	Dual streams	Triple streams	
Frame Rate		30 fps at 1920 x 1080	30 fps at 1920 x 1080, 1280 x 720	20 fps at 2592 x 1520	20 fps at 2592 x 1520, 25 fps at 2560 x 1440, 30 fps at 2048 x 1520
Audio Compression		G.711	G.711	N/A	G.711
Audio Support		Two-way Audio (external microphone and speaker required)	One-way Audio	N/A	Two-way Audio (external microphone and speaker required)
Optical Lens					
Day/Night		Yes (with removable IR-cut filter)			
Lens Type		Varifocal	Motorized varifocal	Varifocal	Motorized varifocal
Focal Length		2.8 ~ 12 mm	2.8 ~ 12 mm	2.8 ~ 12 mm	
Maximum Aperture		F/1.6	F/1.6	F/1.6	F/1.4
Mount		Ø 14 mm	Ø 14 mm	Ø 14 mm	
Image Format		1/2.8"	1/2.7"	1/3"	1/3"
Horizontal FOV		108° ~ 30°	103.6° ~ 33.4°	97° ~ 29°	91° ~ 27°
Operation	**Focus**	Manual (with lock)	Automatic / Manual	Manual (with lock)	Auto / Manual
	Zoom	Manual (with lock)	4.3x Optical Zoom	Manual (with lock)	4.3x Optical Zoom
	Iris	Fixed	Fixed	Fixed	
IR LED Quantity		2 IR LEDs	2 IR LEDs	2 IR LEDs	
Max. IR Distance		30 m (100 ft)	40 m (130 ft)	30 m (100 ft)	
Mechanical					
Camera Angle Adjustment	**Pan**	0° ~ 360°	3° ~ 360°	0° ~ 360°	
	Tilt	0° ~ 80°	0° ~ 70°	0° ~ 80°	
	Rotate	0° ~ 360°	3° ~ 360°	0° ~ 360°	
3-axis Mechanism		Yes			
Pigtail-Free		No	No	No	No
Connectors	**Power**	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable			
	Audio	1 in (Audio In Wire), 1 out (Audio Out Wire)	Built-in microphone	N/A	1 in (Audio In Wire), 1 out (Audio Out Wire)
	TV-Out	BNC connector (640 x 480 resolution)	N/A	N/A	BNC connector (640 x 480 resolution)
	Digital I/O	4-pin terminal block, pitch 3.5 mm/0.14"	N/A	N/A	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.			
General					
Environment Temperature	**Start-up** / **Operation**	-40°C ~ 60°C (-40°F ~ 140°F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-40°C ~ 60°C (-40°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)
Humidity		0 ~ 95% (no condensation)			
Power Source		12V DC / PoE (IEEE 802.3af)			
Max. Power Consumption		7.2 W	8.0 W	7 W	7.2 W
Certification		CE, FCC, RoHS, UL compliant	FCC, CE, RoHS, UL compliant	CE, FCC, RoHS, UL compliant	CE, FCC, RoHS, UL compliant
Dimensions (L X W X H)		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 148 x 111.3 mm (5.8" x 4.4")
Weight		0.75 kg (1.7 lb)	0.66 kg (1.46 lb)	0.92 kg (2 lb)	0.75 kg (1.7 lb)
Ingress Protection		IP67	IP67	IP67	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).

Fisheye Camera (Part 1)

		GV-FER5702
		
Image Sensor		1/2.8” progressive scan CMOS
Picture Elements		2592 (H) x 1944 (V)
Minimum Illumination	Color	0.01 Lux (F2.0, AGC ON)
	B/W	N/A
	IR ON	0 Lux
Shutter Speed		Auto / Manual (1 ~ 1/100000s)
White Balance		Auto / Manual (2800K ~ 8500K)
Gain Control		Automatic
S/N Ratio		55 dB
WDR Pro (with WDR Sensor)		Yes
Dynamic Range		120 dB
Video Compression		H.265, H.264, MJPEG
Video Streaming		Triple streams from H.265, H.264 or MJPEG
Frame Rate		30 fps at 2592 x 1944 (50 & 60 Hz)
Audio Compression		G.711
Audio Support		Two-way Audio (external speaker required)
Sensor Input		1 Input (Dry Contact)
Alarm Output		1 Digital Output (200 mA 5V DC)
Day/Night		Yes (with removable IR-cut filter)
Lens Type		Fixed
Focal Length		1.4 mm
Maximum Aperture		F/2
Mount		M12
FOV	Horizontal	180°
	Vertical	360°
	Diagonal	360°
Operation	Focus	Fixed
	Iris	
	Zoom	
IR LED Quantity		3 IR LEDs
Max. IR Distance		20 m (65 ft)
Temperature Detector		N/A
Network Interface		10/100 Ethernet
Connectors	Power	DC Jack
	Ethernet	RJ-45 Connector
	Audio	1 In (built-in or external microphone with power supply) 1 Out (Audio Out Wire)
	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.
	USB	N/A
Environment Temperature	Start-Up	-30°C ~ 60°C (-22°F ~ 140°F)
	Operation	
Humidity		0% ~ 95% (no condensation)
Power Source		12V DC / PoE (IEEE 802.3af)
Max. Power Consumption		8.5 W
Certification		CE, FCC, RoHS, UL compliant
Dimensions		Ø 125x 44 mm (Ø 4.9” x 1.7”)
Weight		360 g (0.79 lb)
Ingress Protection		IP66
Vandal Resistance		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
				
Image Sensor		1/1.7" progressive scan CMOS	1/1.7" progressive scan CMOS	1/2.3" progressive scan CMOS
Picture Elements		4000 (H) x 3000 (V)	4000 (H) x 3000 (V)	3840 (H) x 3000 (V)
Minimum Illumination	**Color**	0.1 Lux	0.1 Lux	0.01 Lux (F1.6, AGC ON)
	B/W	0.05 Lux	0.01 Lux	N/A
	IR On	0 Lux	0 Lux	0 Lux
Shutter Speed		Auto / Manual (1/5 ~ 1/16000 sec)	Auto / Manual (1/5 ~ 1/10000 sec)	Auto / Manual (1 ~ 1/30000 sec)
White Balance		Auto / Manual (2800K ~ 8500K)	Auto / Manual	Auto / Manual
Gain Control		Automatic	Automatic	Automatic, Manual
S/N Ratio		52 dB	52 dB	39.5 dB
WDR Pro (with WDR Sensor)		WDR	WDR	WDR
Dynamic Range		Up to 72 dB	Up to 77 dB	N/A
Video Compression		H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264
Video Streaming		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
Frame Rate		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)
Audio Compression		G.711	G.711	G.711
Audio Support		Two-way audio (external microphone and speaker required)	Two-way audio (external microphone and speaker required)	Two-way audio
Sensor Input		1 input (dry contact, NO / NC)	1 input (dry contact, NO / NC)	1 input (dry contact, NO / NC)
Alarm Output		1 digital output (200 mA 5V DC)	1 output	1 relay output (2A 30V DC / 0.5A 125V AC)
Day/Night		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Lens Type		Fixed	Fixed	Fixed
Focal Length		1.2 mm	1.65 mm	1.6 mm
Maximum Aperture		F/2.2	F/2.8	F/2
Mount		M12	M12	M12
FOV	**Horizontal**	180°	180°	180°
	Vertical	N/A	N/A	N/A
	Diagonal	N/A	N/A	N/A
Operation	**Focus**	Fixed	Fixed	Fixed
	Iris			
	Zoom			
IR LED Quantity		6 IR LEDs	4 IR LEDs	3 IR LEDs
Max. IR Distance		30 m (100 ft)	10 m (35 ft)	10 m (35 ft)
Temperature Detector		Yes	Yes	N/A
Network Interface		10/100/1000 Ethernet	10/100/1000 Ethernet	10/100 Ethernet
Connectors	**Power**	2-pin terminal block	DC jack	DC jack
	Ethernet	RJ-45 Connector	RJ-45 Connector	RJ-45 Connector
	Audio	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)
	Digital I/O	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
	Local Storage	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.
	USB	GV-WiFi Adapter or USB hard drive	N/A	N/A
Environment Temperature	**Start-Up**	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C~70°C (-4°F ~ 158°F)	-35°C ~ 60°C (-31°F ~ 140°F)
	Operation	-30°C ~ 50°C (-22°F ~ 122°F)	-30°C ~ 55°C (-22°F ~ 131°F)	
Humidity		10% to 90% (no condensation)	10% to 90% (no condensation)	0% ~ 90% (no condensation)
Power Source		12V DC / PoE+ (IEEE 802.3at)	12V DC / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)
Max. Power Consumption		17 W	12.95 W	9.6 W
Certification		CE, FCC, LVD, RoHS compliant	CE, FCC, RoHS compliant	CE, FCC, RoHS compliant
Dimensions		Ø 160.59 x 59.40 mm (Ø 6.22 x 2.33 in)	Ø 130 x 57.8 mm (Ø 5.12 x 2.28 in)	Ø 120 x 55 mm (Ø 4.7 x 2.1 in)
Weight		700 g (1.54 lb)	565 g (1.25 lb)	400 g (0.88 lb)
Ingress Protection		IP67	IP66	IP66
Vandal Resistance		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
				
Image Sensor		1/2.5” progressive scan CMOS	1/1.7” progressive scan CMOS	1/1.7” progressive scan CMOS
Picture Elements		3200 (H) x 1800 (V)	4000 (H) x 3000 (V)	4000 (H) x 3000 (V)
Minimum Illumination	**Color**	0.01 Lux (F2.0, AGC ON)	0.01 Lux (F2.0, AGC ON)	0.05 Lux
	B/W	0 Lux	0 Lux	N/A
	IR On	0.1 Lux	0 Lux	0 Lux
Shutter Speed		Auto / Manual (1/3 ~ 1/100000 sec)	Auto / Manual (1/3 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)
White Balance		Auto / Manual	Auto / Manual	Auto / Manual
Gain Control		Auto / Manual	Auto / Manual	Automatic
S/N Ratio		50 dB	50 dB	55 dB
WDR Pro (with WDR Sensor)		Yes	Yes	Yes
Dynamic Range		Up to 120 dB	Up to 90 dB	Up to 120 dB
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG	H.265, H.264
Video Streaming		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
Frame Rate		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 × 2160, 1440 × 1440, 1080 x 1080, 960 × 960, 720 x 720, 640 x 640, 480 × 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 × 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 × 2160, 1440 × 1440, 1280 x 720, 1080 x 1080, 960 × 960, 960 x 540, 720 x 720, 640 x 640, 480 × 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
Audio Compression		G.711	G.711	G.711
Audio Support		Two-way audio (external speaker required)	Two-way audio (external speaker required)	Two-way audio (external speaker required)
Sensor Input		1 input (dry contact, NO / NC)	1 input, dry contact, NO / NC	1 Input (dry contact, NO / NC)
Alarm Output		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)
Day/Night		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Lens Type		Fixed	Fixed	Fixed
Focal Length		1.65 mm	1.65 mm	1.98 mm
Maximum Aperture		F/2.0	F/2.0	F/2.8
Mount		M12	M12	M12
FOV	**Horizontal**	180°	180°	180°
	Vertical	180°	180°	N/A
	Diagonal	180°	180°	N/A
Operation	**Focus**	Fixed	Fixed	Fixed
	Iris			
	Zoom			
IR LED Quantity		4 IR LEDs	4 IR LEDs	6 IR LEDs
Max. IR Distance		20 m (65 ft)	20 m (65 ft)	15 m (50 ft)
Temperature Detector		N/A	N/A	N/A
Network Interface		10/100 Ethernet	10/100 Ethernet	10/100/1000 Ethernet
Connectors	**Power**	DC jack	DC jack	DC jack
	Ethernet	RJ-45 connector	RJ-45 connector	RJ-45 connector
	Audio	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.
	Digital I/O	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
	Local Storage	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
	USB	N/A	N/A	N/A
Environment	**Start-Up**	N/A	N/A	N/A
Temperature	**Operation**	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)
Humidity		0% ~ 95% (no condensation)	0% ~ 95% (no condensation)	0% ~ 90% (no condensation)
Power Source		12V DC / PoE (IEEE 802.3af)	DC 12V / PoE (IEEE 802.3af)	12V DC / PoE (IEEE 802.3af)
Max. Power Consumption		10 W	10.5 W	11 W
Certification		CE, FCC, RoHS compliant	CE, FCC, RoHS compliant	CE, FCC, RoHS compliant
Dimensions		Ø 130.6 x 46.3 mm (Ø 5.14 x 1.82 in)	Ø 130.6 x 46.3 mm (Ø 5.14 x 1.82 in)	Ø 140 x 45.4 mm (Ø 5.5 x 1.8 in)
Weight		516.2 g (1.14 lb)	516.2 g (1.14 lb)	700 g (1.54 lb)
Ingress Protection		IP67	IP67	IP67
Vandal Resistance		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-SD2722-IR	GV-SD4825-IR	GV-SD4834-IR
				
Image Sensor		1/1.8 Progressive scan super 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)	2688 (H) x 1520 (V)	
Minimum Illumination	Color	0.0005 Lux (F1.5, AGC ON)	0.003 Lux (F1.5, AGC ON)	
	B/W	N/A	N/A	
	IR ON	0 Lux	0 Lux	
Shutter Speed		Auto / Manual (1/6 ~ 1/100000 sec)	Auto / Manual (1 ~ 1/100000 sec)	
White Balance		Auto / Manual		
AGC Control		Auto / Manual	Auto / Manual	
S/N Ratio		52 dB	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 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	N/A		
	Max Presets			
	Allowed			
Cruise				
Tour				
Patrol	Max Number	16		
	Max Actions Allowed	32		
Privacy Mask		24		
Day/Night		Yes (with removable IR Cut Filter)		
Focal Length		6.5 ~ 143 mm	4.8 ~ 120 mm	4.5 ~ 148.5 mm
Maximum Aperture		F/ 1.5	F/ 1.5	
Operation	Focus	Auto / Manual		
	Zoom	22x	25x	33x
	Iris	Auto / Manual		
IR LED Quantity		10 IR LEDs	4 IR LEDs	6 IR LEDs
Max. IR Distance		200 m (655ft)	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, 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:

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

Speed Dome Camera (Part 2)

Camera		GV-QSD5730-Indoor	GV-QSD5731-IR
			
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
Shutter Speed		Auto / Manual (1 ~ 1/10000 sec)	
White Balance		Auto / Manual	
AGC Control		N/A	N/A
S/N Ratio		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°
Movement Speed		0.1° ~ 400°/s	0.1° ~ 280°/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
	Max Actions Allowed	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
Max. IR Distance		N/A	150 m (500 ft)
Temperature Detector		N/A	
Connectors	Power	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)
Humidity		10% ~ 90% (non-condensing)	
Power Source		30V DC / 24V AC / PoE+ (802.3at)	30V DC / 24V AC / PoE++ (60W)
Max. Power Consumption		DC 30V, 11.37W Max. AC 24V, 13.55W Max.	DC 30V, 43.87W Max. AC 24V, 44W 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")
Weight		2.6 kg (5.73 lb)	3.8 kg (8.38 lb)
Ingress Protection		N/A	IP66
Vandal Resistance		N/A	IK10 for housing

Note:

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

Pinhole Camera

			GV-GPH2800
			
Camera			
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
Operation			
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)
Optical Lens			
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
Mechanical			
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
General			
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).

Face Detection Camera

			GV-BX2700-FD	GV-MD8710-FD
				
Camera				
Image Sensor			1/2.8" progressive scan super low lux CMOS	1/2" progressive scan super low lux CMOS
Picture Elements			1920 (H) x 1080 (V)	840(H) x 2160(V)
Minimum Illumination	**Color**		0.005 Lux	0.04 Lux
	B/W		0.004 Lux	0.03 Lux
Shutter Speed			Auto, Manual (1/30 ~ 1/16000 sec)	
White Balance			Auto, Manual (2800K ~ 8500K)	
Gain Control			Automatic	
S/N Ratio			56 dB	52 dB
WDR			WDR Pro	
Dynamic Range			Up to 130 dB	Up to 120 dB
Operation				
Video Compression			H.265, H.264, MJPEG	
Video Streaming			Triple streams	
Frame Rate			30 fps at 1920 x 1080	30 fps at 3840 x 2160
Audio Compression			G.711	
Sensor Input			1 Input (Dry Contact)	
Alarm Output			1 Digital Output (200 mA 5 V DC)	
Audio Support			Two-way Audio (external speaker required)	Two-way Audio (external microphone and speaker required)
Optical Lens				
Day/Night			Yes (with removable IR-cut filter)	
Lens Type			Varifocal	Motorized varifocal lens
Focal Length			3 ~ 10.5 mm	4 ~ 8 mm
Maximum Aperture			F/1.4	F/1.44
Mount			CS Mount	Ø14 mm
Image Format			1/2.7"	1/2.5"
Horizontal FOV			100° ~ 35°	112° ~ 61°
Operation	**Focus**		Manual (w/lock)	Auto
	Zoom		Manual (w/lock)	2X optical zoom
	Iris		P-Iris	
IR LED Quantity			N/A	4 IR LEDs
Max. IR Distance			N/A	30 m (100 ft)
Face Detection				
Environment			600 lux	
Detection face angle	**Tilt (Up/Down)**		± 30°	
	Swing (Left/Right)		± 60°	
Max. No of Faces			Up to 16	Up to 32
Min. Face Image Pixel Requirement			100 x 100	130 x 130
Mechanical				
Camera Angle Adjustment	**Pan**		N/A	0° ~ 350°
	Tilt			0° ~ 75°
	Rotate			0° ~ 340°
Connectors	**Power**		2-pin terminal block, PoE	
	Ethernet		Ethernet (10/100 Base-T), RJ-45 cable	
	Audio		1 In (built-in or external microphone), 1 Out (3.5 mm stereo jack')	1 In, 1 Out (3.5 mm stereo jack)
	Auto Iris		Yes (with varifocal lens)	Yes (with motorized lens)
	Digital I/O		3-pin terminal block, pitch 2.5 mm/0.1"	I/O wires
	Local Storage		microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported	
	TV-Out		BNC connector (640 x 480 resolution)	N/A
	Mini USB		GV-WiFi Adapter or USB hard drive	N/A
LED Indicator			2 LEDs: Power, Status	
General				
Environment Temperature			0 °C ~ 50 °C (32 °F ~ 122 °F)	
Humidity			10% ~ 90% (no condensation)	
Power Source			12V DC / PoE (IEEE 802.3af)	
Max. Power Consumption			4.9 W	9.5 W
Certification			CE, FCC, RCM, LVD, RoHS compliant	CE, FCC, LVD, RoHS compliant
Dimensions (L X W X H)			75.5 x 75 x 54 mm (2.97'' x 2.95'' x 2.13'')	ø 125 x 99.5 mm (4.92" x 3.92")
Weight			350 g (0.77 lb)	500 g (1.10 lb)

Note:

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

AI Camera (Part 1 – EBD / TBL)

		GV-EBD4813	GV-TBL4810	GV-TBL4807
				
Camera				
Image Sensor		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
Picture Elements		2688 (H) x 1520 (V)		
Minimum Illumination	**Color**	0.002 Lux (F1.2, AGC ON)		0.002 Lux (F1.6, AGC ON)
	B/W	N/A		
	IR ON	0 Lux		N/A
Shutter Speed		Automatic / Manual (1 ~ 1/100000 sec)		
White Balance		Automatic, Manual		
Gain Control		Automatic, Manual		
S/N Ratio		56 dB		
WDR		WDR Pro		
Dynamic Range		120 dB		
Operation				
Video Compression		H.265, H.264, MJPEG		
Video Streaming		Triple streams		
Frame Rate		30 fps at 2688 x 1520 / 2560 x 1440 / 2304 x 1296		
Audio Compression		G.711		
Audio Support		On-way Audio	Two-way Audio (external microphone and speaker required)	One-way Audio
Sensor Input		N/A		1 input (dry contact, NO / NC)
Alarm Output		N/A		1 Relay Output (1A 30V DC / 0.3A 125V AC)
Optical Lens				
Day/Night		Yes (with removable IR-cut filter)		
Lens Type		Motorized varifocal lens		Fixed
Focal Length		2.7 ~ 13.5 mm	2.7 ~ 13.5 mm	6 mm
Maximum Aperture		F/1.2	F/1.2	F/1.6
Mount		Ø 12 mm	Ø 14 mm	M12
Horizontal FOV		98°~31°	98°~31°	52.1°
Operation	**Focus**	Auto / Manual		Fixed
	Zoom	5x Optical Zoom		Fixed
	Iris			Fixed
IR LED Quantity		2 IR LEDs	3 IR LEDs	4 IR LEDs
Max. IR Distance		40 m (130 ft)	50 m (165 ft)	80 m (260 ft)
Video Resolution				
Main Stream		2688 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720		
Sub Stream		1280 x 720, 720 x 576, 640 x 480, 640 x 360 (Default)		
Third Stream (Closed by Default)		720 x 576, 704 x 288, 640 x 360, 352 x 288		
Network				
Interface		10/100 Ethernet		
Mechanical				
Camera Angle Adjustment	**Pan**	0° ~ 360°		
	Tilt	0° ~ 75°	0 ~ 90°	
	Rotate	0° ~ 360°		
Connectors	**Power**	DC Jack, PoE		
	Ethernet	RJ-45		
	Audio	1 In (built-in microphone)	1 in (Audio In Wire); 1 out (Audio Out Wire) *The Audio In port only supports microphones with power supply	2 In (built-in microphone x 2)
	Digital I/O	N/A	4-pin terminal block pitch 3.5 mm (0.14")	I/O wires
	Local Storage	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.		
General				
Operating Temperature		-30°C ~ 60°C (-22°F ~ 140°F)		
Humidity		0% ~ 95% (no condensation)		
Power Source		12V DC / PoE (IEEE802.3af)		
Max. Power Consumption		7 W	8.5 W	7 W
Certification		CE, FCC, RoHS, UL compliant		CE, FCC, LVD, RoHS, UL compliant
Dimensions		Ø 129 x 110 mm (Ø 5.1" x 4.3")	244 × 96 ×74 mm (9.6" × 3.8" × 2.9")	206 × 74 × 74 mm (8.1" × 2.9" × 2.9")
Weight		0.69 kg (1.52 lb)	1.0 kg (2.2 lb)	0.51 kg (1.12 lb)
Ingress Protection		IP67		
Vandal Resistance		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
			
Camera			
Image Sensor		1/2.7” progressive scan super low lux CMOS	
Picture Elements		2880 (H) x 1620 (V)	
Minimum Illumination	**Color**	0.001 Lux (F1.0, AGC ON)	
	B/W	N/A	
	IR ON	0 Lux	
Shutter Speed		Automatic / Manual (1 ~ 1/100000 sec)	
White Balance		Automatic, Manual	
Gain Control		Automatic, Manual	
S/N Ratio		56 dB	
WDR		WDR Pro	
Dynamic Range		120 dB	
Operation			
Video Compression		H.265, H.264, MJPEG	
Video Streaming		Triple streams	
Frame Rate		30 fps at 2880 x 1620 / 2560 x 1440 / 2304 x 1296	
Audio Compression		G.711	
Audio Support		Two-way Audio (external microphone and speaker required)	One-way audio
Sensor Input		1 input (dry contact, NO / NC)	N/A
Alarm Output		1 Relay Output (30V DC, 1A / 125V AC, 0.3A)	N/A
Optical Lens			
Day/Night		Yes	
Lens Type		Fixed	
Focal Length		4 mm	2.8 mm
Maximum Aperture		F/1.0	
Mount		M12	
Horizontal FOV		80.2°	102°
Operation	**Focus**	Fixed	
	Zoom	Fixed	
	Iris	Fixed	
LED Quantity		2 Warm LEDs	
Max. LED Distance		30 m (100 ft)	
Video Resolution			
Main Stream		2880 x 1620 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720	
Sub Stream		1280 x 720, 720 x 576, 640 x 480, 640 x 360 (Default)	
Third Stream (Closed by Default)		720 x 576, 704 x 288, 640 x 360, 352 x 288	
Network			
Interface		10/100 Ethernet	
Mechanical			
Camera Angle Adjustment	**Pan**	0° ~ 360°	3° ~ 360°
	Tilt	0 ~ 90°	0 ~ 80°
	Rotate	0° ~ 360°	3° ~ 360°
Connectors	**Power**	DC Jack, PoE	
	Ethernet	RJ-45	
	Audio	1 in (Audio In Wire); 1 out (Audio Out Wire) *The Audio In port only supports microphones with power supply	1 In (Built-in microphone)
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14”)	N/A
	Local Storage	microSD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.	
General			
Operating Temperature		-30°C ~ 60°C (-22°F ~ 140°F)	
Humidity		0% ~ 95% (no condensation)	
Power Source		12V DC / PoE (IEEE802.3af)	
Max. Power Consumption		9.0 W	7.5 W
Certification		CE, FCC, RoHS, UL compliant	
Dimensions		246 × 86 × 85 mm (9.7” × 3.4” × 3.3”)	Ø 126 x 93 mm (Ø 5” x 3.7”)
Weight		0.92 kg (2.02 lb)	0.44 kg (0.97 lb)
Ingress Protection		IP67	
Vandal Resistance		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
				
Camera				
Image Sensor		1/3" progressive scan super low lux CMOS	1/2.7" progressive scan super low lux CMOS	
Picture Elements		2688 (H) x 1520 (V)	3840 (H) x 2160 (V)	2688 (H) x 1520 (V)
Minimum Illumination	**Color**	0.003 Lux (F1.6, AGC ON)		
	IR ON	0 Lux		
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)		
White Balance		Automatic, Manual		
Gain Control		Automatic, Manual		
S/N Ratio		56 dB		52 dB
WDR		WDR Pro		
Dynamic Range		120 dB		
Operation				
Video Compression		H.265, H.264, MJPEG		
Video Streaming		Triple streams from H.265, H.264 or MJPEG		
Frame Rate		30 fps at 2688 x 1520 / 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
Audio Compression		G.711		
Audio Support		Two-way Audio (external microphone and speaker required)	Two-way Audio (external speaker required))	Two-way Audio (external speaker required))
Sensor Input		1 input (dry contact, NO / NC)		
Alarm Output		1 Relay Output (30V DC, 1A / 125V AC, 0.3A)		
Optical Lens				
Day/Night		Yes (with removable IR-cut filter)		
Lens Type		Fixed		
Focal Length		2.8 mm	2.8 mm	2.8 mm
Maximum Aperture		F/1.6		
Mount		M12		
Horizontal FOV		101°	112.9°	101.1°
Operation	**Focus**	Fixed		
	Zoom			
	Iris			
IR LED Quantity		1 IR LED		
Max. IR Distance		30 m (100 ft)		
Video Resolution				
Main Stream		2688 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720	3840 x 2160 (Default), 3072 x 1728, 2560 x 1440, 1920 x 1080, 1280 x 720	2688 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720
Sub Stream		1280 x 720, 720 x 576, 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)
Third Stream (Closed by Default)		720 x 576, 704 x 288, 640 x 360, 352 x 288		
Network				
Interface		10/100 Ethernet		
Mechanical				
Camera Angle Adjustment	**Pan**	0° ~ 360°	3° ~ 360°	0° ~ 348°
	Tilt	0° ~ 68°		-66° ~ 66°
	Rotate	0° ~ 360°	3° ~ 360°	0° ~ 346°
Connectors	**Power**	DC Jack, PoE		Terminal block, PoE
	Ethernet	RJ-45		
	Audio	1 in (Audio In Wire); 1 out (Audio Out Wire) *The Audio In port only supports microphones with power supply	1 In (built-in or external microphone with power supply) 1 Out (Audio Out Wire) *The Audio In port only support microphones with power supply.	1 In (built-in microphone or terminal block), 1 out (terminal block)
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14")	I/O wires	Terminal block
	Local Storage	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.		
General				
Operating Temperature		-30 ~ 60°C (-22 ~ 140°F)		-30 ~ 55°C (-22 ~ 131°F)
Humidity		0 ~ 95% (no condensation)		
Power Source		12V DC / PoE (IEEE802.3af)		
Max. Power Consumption		4.5 W	6 W	4.5 W
Certification		FCC, CE, RoHS, UL compliant		CE, FCC, LVD, RoHS, UL compliant
Dimensions		Ø 108.7 x 81.1 mm (Ø4.3" x 3.2")	Ø 109 x 83 mm (Ø 4.3" x 3.3")	Ø 109 x 62 mm (Ø 4.3" x 2.4")
Weight		0.42 kg (0.93 lb)	0.43 kg (0.95 lb)	0.22 kg (0.49 lb)
Ingress Protection		IP67		N/A
Vandal Resistance		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 4 – TVD)

		GV-TVD4810	GV-TVD4811
			
Camera			
Image Sensor		1/3" progressive scan super low lux CMOS	1/2.7" progressive scan super low lux CMOS
Picture Elements		2688 (H) x 1520 (V)	2688 (H) x 1520 (V)
Minimum Illumination	**Color**	0.002 Lux (F1.2, AGC ON)	0.002 Lux (F1.2, AGC ON)
	IR ON	0 Lux	0 Lux
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)	
White Balance		Automatic, Manual	
Gain Control		Automatic, Manual	
S/N Ratio		56 dB	
WDR		WDR Pro	
Dynamic Range		120 dB	
Operation			
Video Compression		H.265, H.264, MJPEG	
Video Streaming		Triple streams from H.265, H.264 or MJPEG	
Frame Rate		30 fps at 2688 x 1520 / 2560 x 1440 / 2304 x 1296	30 fps at 2688 x 1520 / 2560 x 1440 / 2304 x1296 / 1920x 1080
Audio Compression		G.711	
Audio Support		Two-way Audio (external microphone and speaker required)	Two-way audio (external speaker required)
Sensor Input		1 Input (dry contact, NO / NC)	
Alarm Output		1 Relay Output (1A 30V DC / 0.3A 125V AC)	
Optical Lens			
Day/Night		Yes (with removable IR-cut filter)	
Lens Type		Motorized varifocal lens	
Focal Length		2.7 ~ 13.5mm	
Maximum Aperture		F/1.2	
Mount		Ø 14 mm	
Horizontal FOV		98° ~ 31°	103.58° ~ 31.05°
Operation	**Focus**	Auto / Manual	
	Zoom	5x Optical Zoom	
	Iris	Fixed	
IR LED Quantity		2 IR LEDs	
Max. IR Distance		40 m (130 ft)	30 m (100 ft)
Video Resolution			
Main Stream		2688 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720	
Sub Stream		1280 x 720, 720 x 576, 640 x 480, 640 x 360 (Default)	
Third Stream (Closed by Default)		720 x 576, 704 x 288, 640 x 360, 352 x 288	
Network			
Interface		10/100 Ethernet	
Mechanical			
Camera Angle Adjustment	**Pan**	0° ~ 360°	0° ~ 356°
	Tilt	0 ~ 80°	0° ~ 70°
	Rotate	0° ~ 360°	0° ~ 356°
Connectors	**Power**	DC Jack, PoE	2-pin terminal block / PoE
	Ethernet	RJ-45	
	Audio	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)
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14")	4-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.	
General			
Operating Temperature		-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
Humidity		0 ~ 95% (no condensation)	
Power Source		12 V DC / PoE (IEEE 802.3af)	
Max. Power Consumption		7.0 W	6.5 W
Certification		FCC, CE, RoHS, UL compliant	CE, FCC, LVD, RoHS, UL compliant
Dimensions		Ø 148 x 111 mm (Ø 5.8 x 4.4")	Ø 128 x 100 mm (Ø 5.04" x 3.94")
Weight		0.92 kg (2.03 lb)	0.59 kg (1.31 lb)
Ingress Protection		IP67	IP66
Vandal Resistance		IK10 for metal casing	

Note:

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

AI Camera (Part 5 – TBL / TVD)

		GV-TBL8804	GV-TBL8810	GV-TVD8810
				
Camera				
Image Sensor		1/2.7” progressive scan super low lux CMOS	1/2.8” progressive scan super low lux CMOS	1/2.8” progressive scan super low lux CMOS
Picture Elements		3840 (H) x 2160 (V)		
Minimum Illumination	**Color**	0.01 Lux (F2.0, AGC ON)	0.003 Lux (F1.6, AGC ON)	0.003 Lux (F1.6, AGC ON)
	IR ON	0 Lux		
Shutter Speed		Auto / Manual (1/12 ~ 1/100000 sec)		Auto / Manual (1 ~ 1/100000 sec)
White Balance		Auto / Manual		
Gain Control		Auto / Manual		
S/N Ratio		56 dB		
WDR		WDR Pro		
Dynamic Range		Up to 120 dB		
Operation				
Video Compression		H.265, H.264, MJPEG		
Video Streaming		Triple streams		
Frame Rate		20 fps at 3840 x2160, 30 fps at 3072 x 1728 / 2560 x 1440 / 1920 x 1080		
Audio Compression		G.711		
Audio Support		Two-way Audio	Two-way Audio (external microphone and speaker required)	Two-way Audio (external speaker required)
Sensor Input		N/A	1 Input (dry contact, NO / NC)	
Alarm Output		N/A	1 Relay Output (30V DC, 1A / 125V AC, 0.3A)	
Optical Lens				
Day/Night		Yes (with removable IR-cut filter)		
Lens Type		Fixed	Motorized varifocal	
Focal Length		4 mm	2.8 ~ 12 mm	2.8 ~ 12 mm
Maximum Aperture		F/2.0	F/1.6	F/1.6
Mount		M12	Ø 14 mm	Ø 14 mm
Horizontal FOV		86°	29.2° ~ 107.4°	29.2° ~ 107.4°
Operation	**Focus**	Fixed	Auto / Manual	
	Zoom		4.3x optical zoom	4.3x optical zoom
	Iris		Fixed	Fixed
IR LED Quantity		1 IR LED	3 IR LEDs	2 IR LEDs
Max. IR Distance		30 m (100 ft)	50 m (165 ft)	40 m (130 ft)
White LED Quantity		2 Warm LEDs	N/A	N/A
Max. White Light Distance		20 m (65 ft)	N/A	N/A
Video Resolution				
Main Stream		3840 x 2160 (Default), 3072 x 1728, 2560 x 1440, 1920 x 1080		
Sub Stream		1920 x 1080, 1280 x 720, 720 x 576, 704 x 288, 640 x 480, 640 x 360 (Default), 352 x 288		
Third Stream (Closed by Default)		720 x 576, 704 x 288, 640 x 360, 352 x 288		
Network				
Interface		10/100 Ethernet		
Mechanical				
Camera Angle Adjustment	**Pan**	0 ~ 360°		
	Tilt	0 ~ 90°	0 ~ 120°	0 ~ 68°
	Rotate	0 ~ 360°		
Connectors	**Power**	DC Jack, PoE		
	Ethernet	RJ-45		
	Audio	Two-way (built-in microphone and speaker)	1 In (Audio In Wire) 1 Out (Audio Out Wire) *The Audio In port only supports microphones with power supply	1 In (built-in or external microphone with power supply) 1 Out (Audio Out Wire)
	Digital I/O	N/A	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.		
General				
Operating Temperature		-30 ~ 60°C (-22 ~ 140°F)		
Humidity		0 ~ 95% (no condensation)		
Power Source		12V DC / PoE (IEEE802.3af)		
Max. Power Consumption		10.5 W	9.5 W	5.5 W
Certification		FCC, CE, RoHS, UL compliant		
Dimensions		191 × 75 × 74 mm (7.5” × 3.0” × 2.9”)	244 × 96 ×74 mm (9.6” × 3.8” × 2.9”)	Ø 148 x 111 mm (Ø 5.8 x 4.4”)
Weight		0.41 kg (0.99 lb)	1.0 kg (2.2 lb)	0.45 kg (0.99 lb)
Ingress Protection		IP67		
Vandal Resistance		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
			
Camera			
Image Sensor		1/2.7” progressive scan super low lux CMOS	1/2.7” progressive scan super low lux CMOS
Picture Elements		2880 (H) x 1620 (V)	2688 (H) x 1520 (V)
Minimum Illumination	**Color**	0.003 Lux (F1.2, AGC ON)	0.02 Lux (F1.6, AGC ON)
	B/W	N/A	N/A
	IR ON	0 Lux	0 Lux
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)	Auto / Manual (1/30 ~ 1/30000 sec)
White Balance		Auto / Manual	Auto / Manual
Gain Control		Auto / Manual	Auto / Manual
S/N Ratio		56 dB	52 dB
WDR		WDR Pro	WDR
Dynamic Range		Up to 120 dB	Up to 108 dB
Operation			
Video Compression		H.265, H.264, MJPEG	H.265, H.265+, H.264, H.264+, MJPEG
Video Streaming		Triple streams	Triple streams
Frame Rate		30 fps at 2880 x 1620 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080	30 fps at 2688 x 1520, 2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 640 x 360, 352 × 240 (60 Hz) 25 fps at 2688 x 1520, 2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 640 x 360, 352 × 288 (50 Hz)
Audio Compression		G.711	G.711
Audio Support		Two-way Audio	Two-way audio (external speaker required)
Sensor Input		1 Input (dry contact, NO / NC)	1 Input (dry contact, NO / NC)
Alarm Output		1 relay output (30V DC, 1A / 125V AC, 0.5A)	1 relay output (30V DC, 1A / 125V AC, 0.3A)
Optical Lens			
Day/Night		Yes (with removable IR-cut filter)	
Lens Type		Motorized varifocal	Motorized varifocal
Focal Length		2.7 ~ 13.5 mm	3.18 ~ 7.42 mm
Maximum Aperture		F/1.2	F/1.6
Mount		N/A	Ø 12 mm
Horizontal FOV		30.6° ~ 106.9°	44.3° ~ 113.6°
Operation	**Focus**	Auto / Manual	Auto / Manual
	Zoom	5x optical zoom	2.3x optical zoom
	Iris	Fixed	Fixed
IR LED Quantity		2 IR LEDs	4 IR LEDs
Max. IR Distance		30 m (100 ft)	20 m (65 ft)
Video Resolution			
Main Stream		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 × 1536, 1920 x 1080, 1280 x 960, 1280 x 720 (60 / 50 Hz)
Sub Stream		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)
Third Stream		720 x 576, 704 x 288, 640 x 360, 352 x 288 (Closed by Default)	1920 x 1080, 1280 × 960, 1280 x 720, 704 × 480, 640 × 480, 352 × 240 (Default) (60Hz) 1920 x 1080, 1280 × 960, 1280 x 720, 704 x 576, 640 x 480, 352 x 288 (Default) (50Hz)
Network			
Interface		10/100 Ethernet	
Mechanical			
Camera Angle Adjustment	**Pan**	0 ~ 350°	0°~ 355°
	Tilt	0 ~ 90°	15°~ 90°
	Rotate	N/A	N/A
Connectors	**Power**	DC Jack, PoE	DC Jack, PoE
	Ethernet	RJ-45	RJ-45
	Audio	Two-way audio (built-in microphone and speaker)	Two-way audio (external speaker required)
	Digital I/O	I/O wires	4-pin terminal block pitch 3.5 (0.14”)
	Local Storage	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.
General			
Operating Temperature		-10°C ~ 50°C (14°F ~ 122°F)	-30°C ~60°C (-22°F ~ 140°F)
Humidity		0 ~ 95% (no condensation)	0 ~ 90% (no condensing)
Power Source		12V DC / PoE+ (IEEE 802.3at)	12V DC / PoE (IEEE 802.3af)
Max. Power Consumption		15 W	12 W
Certification		CE, FCC, RoHS, UL compliant	CE, FCC, RoHS compliant
Dimensions		Ø 129 x 143.6 mm (Ø 5.1” x 5.7”)	Ø 116.14 x 75 mm (Ø 4.57” x 2.95”)
Weight		0.75 kg (1.65 lb)	0.46 kg (1.02 lb)
Ingress Protection		N/A	IP67
Vandal Resistance		N/A	IK10 for metal casing

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

AI Camera (Part 7 – EBD)

		GV-EBD8800	GV-EBD8813
			
Camera			
Image Sensor		1/2.7" progressive scan super low lux CMOS	1/2.8" progressive scan super low lux CMOS
Picture Elements		3840 (H) x 2160 (V)	
Minimum Illumination	**Color**	0.01 Lux (F2.0, AGC ON)	0.003 Lux (F1.5, AGC ON)
	B/W	N/A	
	IR ON	0 Lux	
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)	
White Balance		Automatic, Manual	
Gain Control		Automatic, Manual	
S/N Ratio		56 dB	
WDR		WDR Pro	
Dynamic Range		120 dB	
Operation			
Video Compression		H.265, H.264, MJPEG	
Video Streaming		Triple streams	
Frame Rate		20 fps at 3840 x2160, 30 fps at 3072 x 1728 / 2560 x 1440 / 1920 x 1080	
Audio Compression		G.711	
Audio Support		One-way Audio	
Sensor Input		N/A	
Alarm Output		N/A	
Optical Lens			
Day/Night		Yes (with removable IR-cut filter)	
Lens Type		Fixed	Motorized varifocal
Focal Length		2.8 mm	2.8 ~ 12 mm
Maximum Aperture		F/2.0	F/1.6
Mount		M12	Ø 12 mm
Horizontal FOV		112°	107° ~ 29°
Operation	**Focus**	Fixed	Auto / Manual
	Zoom		4.3x optical zoom
	Iris		Fixed
IR LED Quantity		1 IR LED	2 IR LEDs
Max. IR Distance		30 m (100 ft)	40 m (130 ft)
Video Resolution			
Main Stream		3840 x 2160 (Default), 3072 x 1728, 2560 x 1440, 1920 x 1080	
Sub Stream		1920 x 1080, 1280 x 720, 720 x 576, 704 x 288, 640 x 480, 640 x 360 (Default), 352 x 288	
Third Stream (Closed by Default)		720 x 576, 704 x 288, 640 x 360, 352 x 288	
Network			
Interface		10/100 Ethernet	
Mechanical			
Camera Angle Adjustment	**Pan**	0° ~ 360°	
	Tilt	0 ~ 90°	0 ~ 75°
	Rotate	0° ~ 360°	
Connectors	**Power**	DC Jack, PoE	
	Ethernet	RJ-45	
	Audio	1 In (built-in microphone)	
	Digital I/O	N/A	
	Local Storage	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	
General			
Operating Temperature		-30 ~ 60°C (-22 ~ 140°F)	
Humidity		0 ~ 95% (no condensation)	
Power Source		12V DC / PoE (IEEE802.3af)	
Max. Power Consumption		6.4 W	8.16 W
Certification		FCC, CE, RoHS, UL compliant	
Dimensions		Ø 126 x 94 mm (Ø5.0 x 3.7")	Ø 129 x 110 mm (Ø 5.1" x 4.3")
Weight		0.45 kg (0.99 lb)	0.67 kg (1.48 lb)
Ingress Protection		IP67	
Vandal Resistance		N/A	IK10 for metal casing

Note: 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
					
Camera					
Image Sensor		1/2.8” progressive scan super low lux CMOS		1/2.7” progressive scan super low lux CMOS	
Picture Elements		3840 (H) x 2160 (V)		2880 (H) x 1620 (V)	
Minimum Illumination	**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	
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)		Auto / Manual (1 ~ 1/100000 sec)	
White Balance		Automatic, Manual		Automatic, Manual	
Gain Control		Automatic, Manual		Automatic, Manual	
S/N Ratio		55 dB		56 dB	
WDR		WDR Pro		WDR Pro	
Dynamic Range		120 dB		120 dB	
Operation					
Video Compression		H.265, H.264, MJPEG		H.265, H.264, MJPEG	
Video Streaming		Triple streams		Triple streams	
Frame Rate		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	
Audio Compression		G.711		G.711	
Audio Support		One-way Audio		One-way Audio	
Sensor Input		N/A		N/A	
Alarm Output		N/A		N/A	
Optical Lens					
Day/Night		Yes (with removable IR-cut filter)			
Lens Type		Fixed		Fixed	
Focal Length		1.68 mm		1.68 mm	
Maximum Aperture		F/2.0		F/2.0	
Mount		M12		Ø12 mm	M12
Horizontal FOV		180°		180°	
Operation	**Fixed**	Fixed		Fixed	
	Zoom				
	Iris				
IR LED Quantity		2 IR LEDs		2 IR LEDs	
Max. IR Distance		15 m (50 ft)		20 m (65 ft)	
Video Resolution					
Main Stream		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	
Sub Stream		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	
Third Stream (Closed by Default)		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	
Network					
Interface		10/100 Ethernet		10/100 Ethernet	
Mechanical					
Camera Angle Adjustment	**Pan**	0° ~ 360°	0° ~ 180°	0° ~ 360°	0° ~ 360°
	Tilt	5° ~ 90°	0° ~ 180°	0° ~ 75°	0° ~ 90°
	Rotate	0° ~ 360°	N/A	0° ~ 360°	0° ~ 360°
Connectors	**Power**	2-pin terminal block, PoE	DC Jack, PoE	DC Jack, 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	
	Local Storage	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.			
General					
Operating Temperature		-40°C ~ 60°C (-40°F ~ 140°F)		-30°C ~ 60°C (-22°F ~ 140°F)	
Humidity		0 ~ 90% (no condensation)		0 ~ 95% (no condensation)	
Power Source		12V DC / PoE (IEEE802.3af)		12V DC / PoE (IEEE802.3af)	
Max. Power Consumption		9 W		5.5 W	
Certification		CE, FCC compliant		CE, FCC, LVD, RoHS, UL compliant	
Dimensions		97 x 74 x 168.5 mm (3.82 x 2.91 x 6.63”)	Ø 127.2 x 107 mm (Ø 5 x 4.2”)	Ø 111 x 93 mm (Ø 4.4 x 3.7”)	198 x 71 x 71 mm (7.8 x 2.8 x 2.8”)
Weight		0.63 kg (1.39 lb)	0.85 kg (1.87 lb)	0.48 kg (1.06 lb)	0.42 kg (0.93 lb)
Ingress Protection		IP67		IP67	
Vandal Resistance		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
				
Camera				
Image Sensor			1/2.7" progressive scan CMOS	
Picture Elements			3840 (H) x 2160 (V)	
Minimum Illumination	**Color**		0.01 Lux (F2.0, AGC ON)	
	B/W		N/A	
	IR ON		0 Lux	
Shutter Speed			Auto / Manual (1 ~ 1/100000 sec)	
White Balance			Auto / Manual	
Gain Control			Auto / Manual	
S/N Ratio			52 Db	
WDR Pro			Yes	
Dynamic Range			120 dB	
Operation				
Video Compression			H.265, H.264, MJPEG	
Video Streaming			Triple streams	
Frame Rate			30 fps at 3840 x2160, 3072 x 1728, 2560 x 1440, 1920 x 1080	
Audio Compression			G.711	
Audio Support			One-way audio	
Sensor Input			N/A	
Alarm Output			N/A	
Optical Lens				
Day/Night			Yes (with removable IR-cut filter)	
Lens Type			Fixed	
Focal Length			1.68 mm	
Maximum Aperture			F/2.0	
Mount			Ø12 mm	M12
Horizontal FOV			180°	
Operation	**Fixed**		Fixed	
	Zoom			
	Iris			
IR LED Quantity			2 IR LEDs	
Max. IR Distance			20 m (65 ft)	
Video Resolution				
Main Stream			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
Sub Stream			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
Third Stream (Closed by Default)			640 x 360, 352 x 288	640 x 360, 352 x 288
Network				
Interface			10/100 Ethernet	
Mechanical				
Camera Angle Adjustment	**Pan**		0° ~ 360°	0° ~ 360°
	Tilt		0° ~ 75°	0° ~ 90°
	Rotate		0° ~ 360°	0° ~ 360°
Connectors	**Power**		DC Jack, PoE	
	Ethernet		RJ-45	
	Audio	Built-in microphone	Yes	Yes
		External microphone required	No	No
		Built-in speaker	No	No
		External speaker required	No	No
			*For devices with microphone or speaker, choose either the built-in or external option. *If equipped with an audio in port, it only supports microphones with power supply.	
	Digital I/O		N/A	
	Local Storage		microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10), Up to 256 GB *UHS-II card type is not supported.	
General				
Operating Temperature			-30°C ~ 60°C (-22°F ~ 140°F)	
Humidity			0 ~ 95% (no condensation)	
Power Source			12 V DC / PoE (IEEE802.3af)	
Max. Power Consumption			7 W	
Certification			CE, FCC, LVD, RoHS, UL compliant	
Dimensions			111 x 93 mm (4.4" x 3.7")	198 x 71 x 71 mm (7.8 x 2.8 x 2.8")
Weight			0.49 kg (1.06 lb)	0.42 kg (0.93 lb)
Ingress Protection			IP67	
Vandal Resistance			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
			
Camera			
Image Sensor		1/2.8” progressive scan super low lux CMOS	1/3” progressive scan super low lux CMOS
Picture Elements		1920 (H) x 1080 (V)	2592 (H) x 1520 (V)
Minimum Illumination	**Color**	0.0028 Lux (F1.2, AGC ON)	0.0028 Lux (F1.2, AGC ON)
	B/W	0.002 Lux (F1.2, AGC ON)	0.001 Lux (AGC ON)
	IR ON	0 Lux	
Shutter Speed		Auto / Manual (1 ~ 1/100000 sec)	
White Balance		Automatic, Manual	
Gain Control		Automatic, Manual	
S/N Ratio		52 dB	
WDR		WDR Pro	
Dynamic Range		120 dB	
Day/Night		Yes (with removable IR-cut filter)	
Mount		CS Mount	
Iris		DC	
Operation			
Video Compression		H.265, H.264, MJPEG	
Video Streaming		Triple streams	
Frame Rate		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)
Audio Compression		G.711	
Audio Support		Two-way Audio (external speaker required)	
Sensor Input		2 inputs (dry contact, NO / NC)	
Alarm Output		2 relay outputs (30V DC, 1 A / 125V AC, 0.3A)	
Video Resolution			
Main Stream		1920 x 1080 (Default), 1280 x 720	2592 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720
Sub Stream		1280 x 720 (Default), 704 x 480, 352 × 240	2592 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720
Third Stream		704 x 480, 480 x 240, 352 × 240 (Default)	
Network			
Interface		10/100 Ethernet	
Mechanical			
Camera Angle Adjustment	**Pan**	N/A	
	Tilt	N/A	
	Rotate	N/A	
Connectors	**Power**	2-pin terminal block, PoE	
	Ethernet	RJ-45	
	Audio	Built-in microphone: Yes 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.	Built-in microphone: Yes 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.
	Digital I/O	8-pin terminal block pitch 2.54 mm (0.1”)	
	TV-out	BNC connector	
	Local Storage	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	
General			
Operating Temperature		-30 ~ 60°C (-22 ~ 140°F)	
Humidity		0 ~ 95% (no condensation)	
Power Source		12V DC / 24V AC / PoE (IEEE802.3af)	
Max. Power Consumption		11 W	
Certification		FCC, CE, RoHS compliant	
Dimensions		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”)
Weight		0.65 kg (1.43 lb)	0.65 kg (1.43 lb)
Ingress Protection		N/A	
Vandal Resistance		N/A	

Note:

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

AI Camera (Part 11 – R Series)

		GV-RBL5811	GV-REB5800
			
Camera			
Image Sensor		1/2.7” progressive scan super low lux CMOS	
Picture Elements		2592 (H) x 1944 (V)	2592 (H) x 1944 (V)
Minimum Illumination	**Color**	0.005 Lux (F1.8, AGC ON)	0.004 Lux (F1.6, AGC ON)
	B/W	0 Lux	
	IR ON	0 Lux	
Shutter Speed		Auto / Manual (1/5 ~ 1/30000 sec)	Auto / Manual (1/5 ~ 1/30000 sec)
White Balance		Automatic, Manual	
Gain Control		Automatic, Manual	
S/N Ratio		50 dB	50 dB
WDR Pro		Yes	
Dynamic Range		120 dB	
Day/Night		Yes (with removable IR-cut filter)	
Operation			
Video Compression		H.265, H.264	
Video Streaming		Triple streams from H.265, H.264	
Frame Rate		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 / 960P / 720P / VGA / QVGA
Audio Compression		G.711	
Audio Support		Two-way audio (external microphone and speaker required)	One-way audio (built-in microphone)
Optical Lens			
Focal Length		2.8 ~ 12 mm	2.8 mm
Mount		Ø 14 mm	M12
Horizontal FOV		32° ~ 97°	97°
Operation	**Focus**	Auto / Manual	Fixed
	Zoom	4.3 Optical Zoom	Fixed
	Iris	DC	Fixed
Video Resolution			
Main Stream		2592 x 1944 (Default), 2592 x 1520, 2048 x 1536, 2304 x 1296, 1920 x 1080, 1280 x 960	2592 x 1944 (Default), 2592 x 1520, 2048 x 1536, 2304 x 1296, 1920 x 1080, 1280 x 960
Sub Stream		1920 x 1080, 1280 x 720, 640 x 480 (Default)	1920 x 1080, 1280 x 720, 640 x 480 (Default)
Third Stream		640 x 480, 320 x 240	
Network			
Interface		10/100 Ethernet	
Mechanical			
Camera Angle Adjustment	**Pan**	0 ~ 360°	0° ~ 359°
	Tilt	0 ~ 80°	0° ~ 73°
	Rotate	0 ~ 360°	0° ~ 359°
Connectors	**Power**	DC jack, PoE	
	Ethernet	RJ-45	
	Audio	1 in (RCA), 1 out (RCA)	1 in (built-in microphone)
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14”)	N/A
	Local Storage	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10), up to 256 GB * UHS-II card type is not supported.	
General			
Operating Temperature		-35°C ~ 60°C (-31°F ~ 140°F)	
Humidity		0% ~ 90% (no condensation)	
Power Source		DC 12 V / PoE (IEEE 802.3af)	
Max. Power Consumption		9.5 W	5.5 W
Certification		CE, FCC, RoHS compliant	
Dimensions		242.12 x 87.4 x 83.88 mm (9.53 x 3.44 x 3.3 in)	Ø 100 x 90 mm (Ø 3.9 x 3.5 in)
Weight		0.81 kg (1.78 lb)	0.42 kg (0.91 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 12 – GBL)

		GV-GBL12811	GV- GBLF2802	GV- GBLF4802	GV-GBLF4813
					
Camera					
Image Sensor		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
Picture Elements		4000 (H) x 3000 (V)	1920 (H) x 1080 (V)	2560 (H) x 1440 (V)	2560 (H) x 1440 (V)
Minimum Illumination	**Color**	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/W	N/A	N/A	N/A	N/A
	IR ON	0 Lux	0 Lux	0 Lux	0 Lux
Shutter Speed		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)
White Balance		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
Gain Control		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
S/N Ratio		50 dB	50 dB	50 dB	50 dB
WDR		Yes	WDR Pro	WDR Pro	WDR Pro
Dynamic Range		75 dB	120 dB	120 dB	120 dB
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)
Operation					
Video Compression		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
Video Streaming		Five streams	Triple streams	Triple streams	Triple streams
Frame Rate		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)	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
Audio Compression		G.711	G.711	G.711	G.711
Audio Support		Two-way Audio (external speaker required)	One-way audio	One-way audio	One-way audio
Sensor Input		1 Input (dry contact, NO / NC)	N/A	N/A	N/A
Alarm Output		1 relay output (1A 30V DC / 0.3A 125V AC)	N/A	N/A	N/A
Optical Lens					
Focal Length		2.8-12 mm	2F 2.8 mm 3F 3.6 mm	2F 2.8 mm 3F 3.6 mm	2.8-12 mm
Mount		Ø 14	M12	M12	Ø14
Horizontal FOV		96°~ 46°	2F 107° 3F 89°	2F 94° 3F 78°	92° ~ 31°
Operation	**Focus**	Auto / Manual	Fixed	Fixed	Auto / Manual
	Zoom	4.3x	Fixed	Fixed	4.3x
	Iris	DC	Fixed	Fixed	Fixed
IR LED Quantity		4 IR LEDs	1 IR LED	1 IR LED	2 IR LEDs
Max. IR Distance		70 m (230 ft)	30 m (100 ft)	30 m (100 ft)	50 m (165 ft)
Warm LED Quantity		N/A	1 Warm LED	1 Warm LED	1 Warm LED
Max. Warm LED Light Distance		N/A	30 m (100 ft)	30 m (100 ft)	40 m (130 ft)
Video Resolution					
Main Stream		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
Sub Stream		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
Third Stream		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
Network					
Interface		10/100 Ethernet	10/100 Ethernet	10/100 Ethernet	10/100 Ethernet
Mechanical					
Camera Angle Adjustment	**Pan**	0 ~ 360°	0 ~ 360°	0 ~ 360°	0 ~ 360°
	Tilt	0 ~ 90°	0 ~ 80°	0 ~ 80°	0 ~ 90°
	Rotate	0 ~ 360°	0 ~ 360°	0 ~ 360°	0 ~ 360°
Connectors	**Power**	DC Jack	DC Jack	DC Jack	DC jack
	Ethernet	RJ-45	RJ-45 connector	RJ-45 connector	RJ-45 connector
	Audio	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)
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14”)	N/A	N/A	N/A
	Local Storage	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
General					
Operating Temperature		-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)
Humidity		0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)
Power Source		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)
Max. Power Consumption		12 W	6 W	6 W	8.5 W
Certification		CE, FCC, RoHS, UKCA compliant	CE, FCC, LVD, RoHS, UKCA, BSMI compliant	CE, FCC, RoHS, UKCA compliant	CE, FCC, LVD, RoHS compliant
Dimensions		272.3 x 94.9 x 88.9 mm (10.72 x 3.73 x 3.5”)	165.7 × 69 × 69 mm (6.5” × 2.7” × 2.7”)	165.7 × 69 × 69 mm (6.5” × 2.7” × 2.7”)	218.1 x 70.4 x 79.5 mm (8.6 x 2.8 x 3.1 in)
Weight		1.12 kg (2.47 lb)	0.45 kg (0.99 lb)	0.39 kg (0.86 lb)	0.71 kg (1.57 lb)
Ingress Protection		IP67	IP67	IP67	IP67
Vandal Resistance		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
					
Camera					
Image Sensor		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
Picture Elements		1920 (H) x 1080 (V)	2560 (H) x 1440 (V)	2560 (H) x 1440 (V)	4000 (H) x 3000 (V)
Minimum Illumination	**Color**	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/W	N/A	N/A	N/A	N/A
	IR ON	0 Lux	0 Lux	0 Lux	0 Lux
Shutter Speed		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)
White Balance		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
Gain Control		Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
S/N Ratio		50 dB	50 dB	50 dB	50 dB
WDR		WDR Pro	WDR Pro	WDR Pro	WDR
Dynamic Range		120 dB	120 dB	120 dB	75 dB
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)
Operation					
Video Compression		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
Video Streaming		Triple streams	Triple streams	Triple streams	Five streams
Frame Rate		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)
Audio Compression		G.711	G.711	G.711	G.711
Audio Support		One-way audio (external microphone required)	One-way audio	One-way audio	Two-way audio (external speaker required)
Sensor Input		N/A	N/A	N/A	1 Input, dry contact, NO / NC
Alarm Output		N/A	N/A	N/A	1 Relay Output (1A 30V DC / 0.3A 125V AC)
Optical Lens					
Focal Length		2F 2.8 mm 3F 3.6 mm	2F 2.8 mm 3F 3.6 mm	2.8-12 mm	2.8-12 mm
Mount		M12	M12	Ø14	Ø14
Horizontal FOV		2F 107° 3F 89°	2F 94° 3F 78°	92° ~ 31°	96° ~ 46°
Operation	**Focus**	Fixed	Fixed	Auto / Manual	Auto / Manual
	Zoom	Fixed	Fixed	4.3x	4.3x
	Iris	Fixed	Fixed	Fixed	DC
IR LED Quantity		1 IR LED	2 IR LEDs	3 IR LEDs	3 IR LEDs
Max. IR Distance		30 m (100 ft)	30 m (100 ft)	50 m (165 ft)	50 m (165 ft)
Warm LED Quantity		N/A	N/A	N/A	N/A
Max. Warm LED Light Distance		N/A	N/A	N/A	N/A
White LED Quantity		N/A	2 White LEDs	N/A	N/A
Max. White LED Light Distance		N/A	30 m (100 ft)	N/A	N/A
Video Resolution					
Main Stream		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
Sub Stream		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)
Third Stream		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
Network					
Interface		10/100 Ethernet	10/100 Ethernet	10/100 Ethernet	10/100 Ethernet
Mechanical					
Camera Angle Adjustment	**Pan**	0 ~ 355°	0 ~ 355°	0 ~ 345°	0 ~ 345°
	Tilt	0 ~ 70°	0 ~ 70°	0 ~ 77°	0 ~ 77°
	Rotate	0 ~ 355°	0 ~ 180°	0 ~ 345°	0 ~ 345°
Connectors	**Power**	DC Jack	DC Jack	DC jack	DC jack, PoE
	Ethernet	RJ-45	RJ-45 connector	RJ-45 connector	RJ-45
	Audio	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)
	Digital I/O	N/A	N/A	N/A	4-pin terminal block pitch 3.5 mm (0.14 in)
	Local Storage	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
General					
Operating Temperature		-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)
Humidity		0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)
Power Source		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)
Max. Power Consumption		4 W	5.5 W	7.5 W	12 W
Certification		CE, FCC, LVD, RoHS, UKCA compliant	CE, FCC, RoHS, UKCA compliant	CE, FCC, LVD, RoHS compliant	CE, FCC, RoHS compliant
Dimensions		Ø110 × 83 mm (Ø 4.3” × 3.3”)	Ø 119 × 87.8 mm (Ø 4.7 × 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)
Weight		0.5 kg (1.10 lb)	0.64 kg (1.41 lb)	0.93 kg (2.05 lb)	0.93 kg (2.05 lb)
Ingress Protection		IP67	IP67	IP67	IP67
Vandal Resistance		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
						
Camera						
Image Sensor		1/2.8" progressive scan super low lux CMOS		1/3” progressive scan super low lux CMOS		1/3" progressive scan CMOS
Picture Elements		1920 (H) x 1080 (V)		2560 (H) x 1440 (V)		2560 (H) x 1440 (V)
Minimum Illumination	**Color**	0.008 Lux (F1.6, AGC ON)		0.005 Lux (F1.6, AGC ON)		0.004 Lux (F1.4, AGC ON)
	B/W	N/A		N/A		N/A
	IR ON	0 Lux		0 Lux		0 Lux
Shutter Speed		Auto / Manual (1/3 ~ 1/100000 sec)		Auto / Manual (1 ~ 1/100000 sec)		Auto / Manual (1 ~ 1/100000 sec)
White Balance		Auto / Manual		Auto / Manual		Auto / Manual
Gain Control		Auto / Manual		Auto / Manual		Auto / Manual
S/N Ratio		50 dB		50 dB		50 dB
WDR		WDR Pro		WDR Pro		Yes
Dynamic Range		120 dB		120 dB		120 dB
Day/Night		Yes (with removable IR-cut filter)		Yes (with removable IR-cut filter)		Yes (with removable IR-cut filter)
Operation						
Video Compression		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
Video Streaming		Triple streams		Triple streams		Triple streams
Frame Rate		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
Audio Compression		G.711		G.711		G.711
Audio Support		One-way audio		One-way audio		One-way audio
Sensor Input		N/A		N/A		N/A
Alarm Output		N/A		N/A		N/A
Optical Lens						
Focal Length		2F	2.8 mm	2F	2.8 mm	2.8-12 mm
		3F	3.6 mm	3F	3.6 mm	
Mount		M12		M12		Ø14
Horizontal FOV		2F	107°	2F	94°	92°-31°
		3F	89°	3F	78°	
Operation	**Focus**	Fixed		Fixed		Auto / Manual
	Zoom	Fixed		Fixed		4.3x
	Iris	Fixed		Fixed		Fixed
IR LED Quantity		1 IR LED		1 IR LED		2 IR LEDs
Max. IR Distance		30 m (100 ft)		30 m (100 ft)		50 m (165 ft)
Warm LED Quantity		1 Warm LED		1 Warm LED		1 Warm LED
Max. Warm LED Light Distance		30 m (100 ft)		30 m (100 ft)		40 m (130 ft)
White LED Quantity		N/A		N/A		N/A
Max. White LED Light Distance		N/A		N/A		N/A
Video Resolution						
Main Stream		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
Sub Stream		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
Third Stream		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
Network						
Interface		10/100 Ethernet		10/100 Ethernet		10/100 Ethernet
Mechanical						
Camera Angle Adjustment	**Pan**	0 ~ 360°		0 ~ 360°		0 ~ 360°
	Tilt	0 ~ 75°		0 ~ 75°		0 ~ 80°
	Rotate	0 ~ 360°		0 ~ 360°		0 ~ 360°
Connectors	**Power**	DC jack		DC Jack		DC jack
	Ethernet	RJ-45 connector		RJ-45 connector		RJ-45 connector
	Audio	1 in (built-in or external microphone)		1 in (built-in or external microphone)		1 in (built-in or external microphone)
	Digital I/O	N/A		N/A		N/A
	Local Storage	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
General						
Operating Temperature		-30°C ~ 60°C (-22°F ~ 140°F)		-30 ~ 60°C (-22 ~ 140°F)		-30°C ~ 60°C (-22°F ~ 140°F)
Humidity		0 ~ 95% (no condensation)		0 ~ 95% (no condensation)		0 ~ 95% (no condensation)
Power Source		DC 12V, 1A / PoE (IEEE 802.3af)		DC 12V, 1A / PoE (IEEE 802.3af)		DC 12V, 1.5A / PoE (IEEE 802.3af)
Max. Power Consumption		6 W		6 W		9 W
Certification		CE, FCC, LVD, RoHS, UKCA compliant		CE, FCC, RoHS, UKCA compliant		CE, FCC, RoHS compliant
Dimensions		Ø 94.6 x 82.8 mm (Ø 3.7 x 3.3 in)		Ø 94.6 × 82.8 mm (Ø 3.7 × 3.3 in)		Ø 111.6 x 99.3 mm (Ø 4.39 x 3.91 in)
Weight		0.45 kg (0.99 lb)		0.45 kg (0.99 lb)		0.66 kg (1.45 lb)
Ingress Protection		IP67		IP67		IP67
Vandal Resistance		IK10		IK10		IK10 for metal casing

Note: Specifications are subject to change without notice.

AI Camera (Part 15 – Thermal)

		GV-TMEB5800	
			
Camera			
Image Sensor		Vanadium oxide uncooled focal plane detector	
Picture Elements		256 (H) x 192 (V) (the resolution of output image is 1280 x 720)	
Pixel Size		12 um	
Thermal Sensitivity		≤50 mK (@25°C, F#=1.0)	
Spectral Range		8 ~ 14 um	
Gain Control		Auto, Manual	
Operation			
Video Compression		H.265, H.264, MJPEG	
Video Streaming		Triple streams	
Frame Rate	**Thermal**	17 fps at 1280 x 720 / 704 x 480 / 480 x 240 / 352 x 240 (60 / 50 Hz)	
	Optical	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)	
Image Setting		Brightness, Contrast, Saturation, Sharpness, Flicker-less, 3D Noise Reduction, Image Orientation, Dual Image Fusion	
Noise Reduction		Yes	
Audio Compression		G.711	
Audio Support		Two-way audio	
Thermal Lens			
Focal Length		3.2 mm	
Horizontal FOV		56°	
Optical Lens			
Focal Length		4 mm	
Horizontal FOV		81°	
Operation	**Focus**	Fixed	
	Zoom	Fixed	
	Iris	Fixed	
Observation Range			
Detection (1.5 pixels on target)	**Human (0.75 m)**	133 m (436.4 ft)	
	Car (2.3 m)	409 m (1341.8 9 ft)	
Recognition (6 pixels on target)	**Human (0.75 m)**	33 m (108.3 ft)	
	Car (2.3 m)	102 m (334.6 ft)	
Identification (12 pixels on target)	**Human (0.75 m)**	17 m (55.8 ft)	
	Car (2.3 m)	51 m (167.3 ft)	
Mechanical			
Camera Angle Adjustment	**Pan**	0° ~ 360°	
	Tilt	0° ~ 75°	
	Rotate	0° ~ 360°	
Connectors	**Power**	DC Jack, PoE	
	Ethernet	RJ-45 cable	
	Audio	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.	
	Digital I/O	4-pin terminal block pitch 3.81 mm (0.15")	
	Local Storage	microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	
General			
Environment Temperature		-30°C ~ 60 °C (-22 °F ~ 140 °F)	
Humidity		0 ~ 95% (no condensation)	
Power Source		12V DC / PoE (IEEE 802.3af)	
Max. Power Consumption		9 W	
Certification		CE, FCC, RoHS compliant	
Dimensions		Ø 111.5 × 99.6 mm (Ø 4.39" x 3.92")	
Weight		0.68 kg (1.5 lb)	

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

AI Camera (Part 16 – Cloud Series)

		GV-GEBF4911	GV-GEB4900	GV-GEBP8900
				
Camera				
Image Sensor		1/3" progressive scan super low lux CMOS	1/3" progressive scan super low lux CMOS	1/2.7" progressive scan CMOS x 2
Picture Elements		2592 (H) x 1520 (V)	2688 (H) x 1520 (V)	4640 (H) x 1760 (V)
Minimum Illumination	**Color**	0.02 Lux (F1.4, AGC ON)	0.005 Lux (F1.6, AGC ON)	0.0032 Lux (F1.6, AGC ON)
	B/W	N/A	N/A	N/A
	IR ON	N/A	0 Lux	0 Lux
Shutter Speed		Automatic / Manual (1/3 ~ 1/100000 sec)	Automatic / Manual (1/3 ~ 1/100000 sec)	Automatic, Manual (1/3 ~ 1/100000 sec)
White Balance		Automatic, Manual	Automatic, Manual	Automatic, Manual
Gain Control		Automatic, Manual	Automatic, Manual	Automatic, Manual
S/N Ratio		50 dB	50 dB	50 dB
WDR		WDR Pro	WDR Pro	Yes
Dynamic Range		120 dB	120 dB	90 dB
Operation				
Video Compression		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
Video Streaming		Triple streams	Triple streams	Triple streams
Frame Rate		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) 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)	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)	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 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)
Audio Compression		G.711	G.711	G.711
Audio Support		Two-way Audio	Two-way Audio (external speaker required)	Two-way audio
Sensor Input		1 input (dry contact, NO / NC)	N/A	1 Input, dry contact, NO / NC
Alarm Output		1 relay output (30V DC, 1 A / 125V AC, 0.3A)	N/A	1 Relay Output (1A 30V DC / 0.3A 125V AC)
Optical Lens				
Day/Night		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Lens Type		Motorized	Fixed	Fixed
Focal Length		2.8 ~ 12 mm	2.8 mm	2.8 mm
Maximum Aperture		F/1.4	F/1.6	F/1.6
Mount		Φ14	M12	M12
Horizontal FOV		96° - 32.33°	95.3°	180°
Operation	**Focus**	Auto / Manual	Fixed	Fixed
	Zoom	4.3x	Fixed	Fixed
	Iris	DC	Fixed	Fixed
Active Deterrence		1 red and blue LED	N/A	1 red and blue LED
IR LED Quantity		1 IR LED	1 IR LED	2 IR LEDs
Max. IR Distance		40 m (130 ft)	30 m (100 ft)	30 m (100 ft)
Warm LED Quantity		1 Warm LED	N/A	2 Warm LEDs
Max. Warm LED Light Distance		40 m (130 ft)	N/A	20 m (65 ft)
Video Resolution				
Main Stream		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
Sub Stream		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 × 240	2048 x 768 (Default), 1600 x 608, 1200 x 448
Third Stream		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 × 240	1200 x 448 (Default), 960 x 368, 640 x 240
Network				
Interface		10/100 Ethernet	10/100 Ethernet	10/100 Ethernet
Mechanical				
Camera Angle Adjustment	**Pan**	0° ~ 360°	0° ~ 360°	0 ~ 360°
	Tilt	0° ~ 75°	0° ~ 75°	0 ~ 75°
	Rotate	0° ~ 360°	0° ~ 360°	0 ~ 360°
Connectors	**Power**	DC Jack, PoE	DC Jack, PoE	DC jack
	Ethernet	RJ-45	RJ-45	RJ-45 connector
	Audio	Built-in microphone: Yes External microphone required: Yes (audio jack, 3.5 mm or 0.14 in) Built-in speaker: Yes 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.	Built-in microphone: Yes 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.	Built-in microphone: Yes External microphone required: Yes (audio jack, 3.5 mm or 0.14 in) Built-in speaker: Yes 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.
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14")	N/A	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.	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			
Operating Temperature	-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)
Humidity	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)
Power Source	12V DC / PoE (IEEE802.3af)	DC 12V, 1A / PoE (IEEE 802.3af)	DC 12 V, 1.25 A / PoE (IEEE 802.3af)
Max. Power Consumption	12 W	7 W	DC 12 V: Max. 9 W PoE: Max. 10.2 W
Certification	FCC, CE, RoHS, UL compliant	CE, FCC, RoHS, UKCA, UL compliant	CE, FCC, RoHS compliant
Dimensions	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)
Weight	0.64 kg (1.41 lb)	0.46 kg (1.01 lb)	0.72 kg (1.59 lb)
Ingress Protection	IP66	IP67	IP67
Vandal Resistance	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	
					
Camera					
Image Sensor		1/3" progressive scan super low lux CMOS		1/3" progressive scan super low lux CMOS	
Picture Elements		2688 (H) x 1520 (V)		2688 (H) x 1520 (V)	
Minimum Illumination	**Color**	0.005 Lux (F1.6, AGC ON)		0.003 Lux (F1.3, AGC ON)	
	B/W	N/A		N/A	
	IR ON	0 Lux		0 Lux	
Shutter Speed		Automatic / Manual (1/3 ~ 1/100000 sec)		Automatic, Manual (1/3 ~ 1/100000 sec)	
White Balance		Automatic, Manual		Automatic, Manual	
Gain Control		Automatic, Manual		Automatic, Manual	
S/N Ratio		50 dB		50 dB	
WDR		WDR Pro		WDR Pro	
Dynamic Range		120 dB		120 dB	
Operation					
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG		H.265, H.265+, H.264, H.264+, MJPEG	
Video Streaming		Triple streams		Triple streams	
Frame Rate		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)		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)	
Audio Compression		G.711		G.711	
Audio Support		Two-way Audio (external speaker required)		Two-way Audio (external speaker required)	
Sensor Input		1 Input (dry contact, NO / NC)		1 Input (dry contact, NO / NC)	
Alarm Output		1 relay output (30V DC, 1A / 125V AC, 0.3A)		1 relay output (30V DC, 1A / 125V AC, 0.3A)	
Optical Lens					
Day/Night		Yes (with removable IR-cut filter)		Yes (with removable IR-cut filter)	
Lens Type		Fixed		Motorized	
Focal Length		2.8 mm		2.8 – 12 mm	
Maximum Aperture		F/1.6		F/1.3	
Mount		M12		Ø14	
Horizontal FOV		95.3°		100° - 28.9°	
Operation	**Focus**	Fixed		Auto / Manual	
	Zoom	Fixed		4.3x	
	Iris	Fixed		DC	
IR LED Quantity		2 IR LEDs		3 IR LEDs	
Max. IR Distance		20 m (65 ft)		50 m (165 ft)	
Video Resolution					
Main Stream		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	
Sub Stream		1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 × 240		1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 × 240	
Third Stream		1280 x 720 (Default), 704 x 576, 704 x 480, 480 x 240, 352 × 240		1280 x 720 (Default), 704 x 576, 704 x 480, 480 x 240, 352 x 288, 352 × 240	
Network					
Interface		10/100 Ethernet		10/100 Ethernet	
Mechanical					
Camera Angle Adjustment	**Pan**	0° ~ 360°		0 ~ 345°	
	Tilt	0° ~ 75°		0 ~ 77°	
	Rotate	0° ~ 350°		0 ~ 345°	
Connectors	**Power**	DC Jack, PoE		DC Jack, PoE	
	Ethernet	RJ-45		RJ-45	
	Audio	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.	
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14")		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.		microSD card slot (SD / SDHC / SDXC / UHS-I, Class 10) *UHS-II card type is not supported.	
General					
Operating Temperature		-30 ~ 60°C (-22 ~ 140°F)		-30 ~ 60°C (-22 ~ 140°F)	
Humidity		0 ~ 95% (no condensation)		0 ~ 95% (no condensation)	
Power Source		DC 12V, 1A / PoE (IEEE 802.3af)		DC 12V / PoE (IEEE 802.3af)	
Max. Power Consumption		5.5 W		9 W	
Certification		CE, FCC, RoHS, UKCA, UL compliant		CE, FCC, RoHS, UKCA, UL compliant	
Dimensions		Ø 110.4 x 62 mm (Ø 4.3 x 2.4")		Ø 141 x 100.2 mm (Ø5.55 x 3.94")	
Weight		0.42 kg (0.93 lb)		0.93 kg (2.05 lb)	
Ingress Protection		IP67		IP67	
Vandal Resistance		IK10 for metal casing		IK10	

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

AI Camera (Part 18 – Cloud Series)

		GV-GBL4900	GV-GBL4911	GV-GBLP8900
				
Camera				
Image Sensor		1/3" progressive scan super low lux CMOS	1/3" progressive scan super low lux CMOS	1/2.7" progressive scan CMOS x 2
Picture Elements		2688 (H) x 1520 (V)	2688 (H) x 1520 (V)	4640 (H) x 1760 (V)
Minimum Illumination	**Color**	0.005 Lux (F1.6, AGC ON)	0.005 Lux (F1.6, AGC ON)	0.0032 Lux (F1.6, AGC ON)
	B/W	N/A	N/A	N/A
	IR ON	0 Lux	0 Lux	0 Lux
Shutter Speed		Automatic / Manual (1/3 ~ 1/100000 sec)	Automatic, Manual (1/3 ~ 1/100000 sec)	Automatic, Manual (1/3 ~ 1/100000 sec)
White Balance		Automatic, Manual	Automatic, Manual	Automatic, Manual
Gain Control		Automatic, Manual	Automatic, Manual	Automatic, Manual
S/N Ratio		50 dB	50 dB	50 dB
WDR		WDR Pro	WDR Pro	Yes
Dynamic Range		120 dB	120 dB	90 dB
Operation				
Video Compression		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
Video Streaming		Triple streams	Triple streams	Triple streams
Frame Rate		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)	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)	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 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)
Audio Compression		G.711	G.711	G.711
Audio Support		Two-way Audio (external speaker required)	Two-way Audio (external speaker required)	Two-way audio
Sensor Input		1 Input (dry contact, NO / NC)	1 Input (dry contact, NO / NC)	1 Input, dry contact, NO / NC
Alarm Output		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)
Optical Lens				
Day/Night		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Lens Type		Fixed	Motorized	Fixed
Focal Length		2.8 mm	2.8 – 12 mm	2.8 mm
Maximum Aperture		F/1.6	F/1.3	F/1.6
Mount		M12	Ø14	M12
Horizontal FOV		95.3°	100° - 28.9°	180°
Operation	**Focus**	Fixed	Auto / Manual	Fixed
	Zoom	Fixed	4.3x	Fixed
	Iris	Fixed	DC	Fixed
Active Deterrence		N/A	N/A	1 red and blue LED
IR LED Quantity		2 IR LEDs	4 IR LEDs	2 IR LEDs
Max. IR Distance		50 m (165 ft)	70 m (230 ft)	30 m (100 ft)
Warm LED Quantity		N/A	N/A	2 Warm LEDs
Max. Warm LED Light Distance		N/A	N/A	20 m (65 ft)
Video Resolution				
Main Stream		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
Sub Stream		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 × 240	2048 x 768 (Default), 1600 x 608, 1200 x 448
Third Stream		1280 x 720 (Default), 704 x 576, 704 x 480, 480 x 240, 352 x 288, 352 × 240	1280 x 720 (Default), 704 x 576, 704 x 480, 480 x 240, 352 x 288, 352 × 240	1200 x 448 (Default), 960 x 368, 640 x 240
Network				
Interface		10/100 Ethernet	10/100 Ethernet	10/100 Ethernet
Mechanical				
Camera Angle Adjustment	**Pan**	0° ~ 360°	0 ~ 360°	0 ~ 360°
	Tilt	0° ~ 90°	0 ~ 90°	0 ~ 90°
	Rotate	0° ~ 360°	0 ~ 360°	0 ~ 360°
Connectors	**Power**	DC Jack, PoE	DC Jack, PoE	DC jack
	Ethernet	RJ-45	RJ-45	RJ-45 connector
	Audio	Built-in microphone: Yes 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.	Built-in microphone: Yes 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.	Built-in microphone: Yes External microphone required: Yes (audio jack, 3.5 mm or 0.14 in) Built-in speaker: Yes 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.
	Digital I/O	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")
	Local Storage	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			
Operating Temperature	-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)	-30 ~ 60°C (-22 ~ 140°F)
Humidity	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)	0 ~ 95% (no condensation)
Power Source	DC 12V, 1A / PoE (IEEE 802.3af)	DC 12V / PoE (IEEE 802.3af)	DC 12 V, 1.25 A / PoE (IEEE 802.3af)
Max. Power Consumption	10 W	12.5 W	DC 12 V: Max. 9 W PoE: Max. 10.2 W
Certification	CE, FCC, RoHS, UKCA, UL compliant	CE, FCC, RoHS, UKCA, UL compliant	CE, FCC, RoHS, UKCA, UL compliant
Dimensions	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)
Weight	0.67 kg (1.48 lb)	0.93 kg (2.05 lb)	0.906 kg (2.0 lb)
Ingress Protection	IP67	IP67	IP67
Vandal Resistance	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)

			GV-TMS8800
			
Camera			
Image Sensor			1/3" progressive scan super low lux CMOS
Picture Elements			2688 (H) x 1520 (V)
Minimum Illumination	**Color**		0.002 Lux (F1.6, AGC ON)
	B/W		N/A
	IR ON		0 Lux
Shutter Speed			Automatic / Manual (1 ~ 1/100000 sec)
White Balance			Automatic, Manual
Gain Control			Automatic, Manual
S/N Ratio			52 dB
WDR			WDR Pro
Dynamic Range			130 dB
Operation			
Video Compression			H.265, H.264, MJPEG
Video Streaming			Triple streams
Frame Rate			25 fps at 2688 x 1520, 2560 x 1440, 30 fps at 2304 x 1296, 1920 x 1080, 1280 x 720 (60 / 50 Hz)
Audio Compression			G.711
Audio Support			Two-way Audio (external microphone and speaker required)
Sensor Input			1 input (dry contact, NO / NC)
Alarm Output			1 relay output (30V DC, 1A / 125V AC, 0.3A)
Optical Lens			
Day/Night			Yes (with removable IR-cut filter)
Lens Type			Fixed
Focal Length			2.8 mm
Maximum Aperture			F/1.6
Mount			Ø 12 mm
Horizontal FOV			97.7°
Operation	**Focus**		Fixed
	Zoom		Fixed
	Iris		Fixed
IR LED Quantity			2 IR LEDs
Max. IR Distance			30 m (100 ft)
Video Resolution			
Main Stream			2688 x 1520 (Default), 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720
Sub Stream			1280 x 720, 720 x 576, 704 x 288, 640 x 480, 640 x 360 (Default), 352 x 288
Third Stream			720 x 576, 704 x 288, 640 x 360, 352 x 288
Network			
Interface			10/100 Ethernet
Mechanical			
Camera Angle Adjustment	**Pan**		0° ~ 180°
	Tilt		0° ~ 66°
	Rotate		0° ~ 346°
Connectors	**Power**		DC Jack, PoE
	Ethernet		RJ-45
	Audio	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.	
	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.
General			
Operating Temperature			-30 ~ 60°C (-22 ~ 140°F)
Humidity			0 ~ 95% (no condensation)
Power Source			DC 12V, 1.25A / PoE (IEEE 802.3af)
Max. Power Consumption			9.1 W
Certification			FCC, CE, RoHS, UKCA compliant
Dimensions			176 × 104 × 72 mm (6.9" × 4.1'' × 2.8")
Weight			0.62 kg (1.37 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 20 – Quad-Sensor)

		GV-TMS20811
		
Camera		
Image Sensor		1/2.7" progressive scan super low lux CMOS
Picture Elements		2880 (H) x 1620 (V)
Minimum Illumination	**Color**	0.002 Lux (F1.2, AGC ON)
	B/W	0.001 Lux (F1.2, AGC ON)
	IR ON	0 Lux
Shutter Speed		Automatic / Manual (1 ~ 1/100000 sec)
White Balance		Automatic, Manual
Gain Control		Automatic, Manual
S/N Ratio		52 dB
WDR		WDR Pro
Dynamic Range		130 dB
Operation		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Triple streams from H.265, H.264, or MJPEG
Frame Rate		30 fps at 2880 x 1620, 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 (60 / 50 Hz)
Audio Compression		G.711
Audio Support		Two-way audio (external speaker required)
Sensor Input		3 input (dry contact, NO / NC)
Alarm Output		2 relay output (30V DC, 1A / 125V AC, 0.5A)
Optical Lens		
Megapixel		5 MP for each lens
Day/Night		Yes (with removable IR-cut filter)
Lens Type		Motorized varifocal
Focal Length		2.7 ~ 13.5 mm
Maximum Aperture		F/1.2
Mount		Ø 14 mm
FOV	**Horizontal**	110.3° ~ 31°
	Vertical	57.1° ~ 17.5°
	Diagonal	143.4° ~ 38.1°
Operation	**Focus**	Auto / Manual
	Zoom	5x Optical Zoom
	Iris	Fixed
IR LED Quantity		9 IR LEDs
Max. IR Distance		50 m (165 ft)
Warm LED Quantity		N/A
Max. Warm LED Light Distance		N/A
Video Resolution		
Main Stream		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
Sub Stream		1920 x 1080 (Default), 1280 x 720, 720 x 576, 640 x 480, 640 x 360, 704 x 288, 352 x 288
Third Stream (Closed by Default)		720 x 576, 640 x 360, 704 x 288, 352 x 288
Network		
Interface		10/100/1000 Ethernet
Mechanical		
Camera Angle Adjustment	**Pan**	0° ~ 360°
	Tilt	0° ~ 65°
	Rotate	0° ~ 355°
Connectors	**Power Input**	3-pin Power Input wire
	Power Output	2-pin terminal block with pitch 3.81 mm (0.15 in)
	Ethernet	RJ-45 connector
	Audio	1 in (built-in or external microphone) 1 out (3-pin terminal block with pitch 3.81 mm or 0.15 in) *The Audio In port only supports microphones with power supply.
	Digital I/O	4-pin terminal block with pitch 3.81 mm (0.15 in)
	Local Storage	microSD card slot (SD / SDHC / SDXC), up to 512 GB
General		
Operating Temperature		-30°C ~ 60°C (-22°F ~ 140°F)
Humidity		5% ~ 95% (no condensation)
Power Source		DC 24V, 2.5A / AC 24V, 2.5A / PoE++ (IEEE 802.3bt, 60 W)
Max. Power Consumption		48.7 W
Power Output		DC 12V, 100mA
Certification		CE, FCC, RoHS compliant
Dimensions		Ø 318 × 136.6 mm (Ø 12.5 x 5.4 in)
Weight		4.77 kg (10.52 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 21 – AI ISP)

			GV-GEBN4800	GV-GDRN4800	GV-GBLN4800
					
Camera					
Image Sensor			1/1.79" progressive scan CMOS sensor		
Picture Elements			2688 (H) x 1520 (V)		
Minimum Illumination	**Color**		0.0001 Lux (F1.0, AGC ON)		
	B/W		N/A		
	LED ON		0 Lux		
Shutter Speed			Automatic / Manual (1/3 ~ 1/100000 sec)		
White Balance			Automatic, Manual		
Gain Control			Automatic, Manual		
S/N Ratio			50 dB		
WDR			WDR Pro (supported in the next version)		
Dynamic Range			120 dB (supported in the future version)		
Operation					
Video Compression			H.265, H.265+, H.264, H.264+, MJPEG		
Video Streaming			Triple streams		
Frame Rate			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)		
Audio Compression			G.711		
Audio Support			One-way Audio		
Sensor Input			N/A		
Alarm Output			N/A		
Optical Lens					
Day/Night			Color		
Lens Type			Fixed		
Focal Length		2F	2.8 mm		
		3F	3.6 mm		
Maximum Aperture			F/1.0		
Mount			M12		
Horizontal FOV		2F	112°		
		3F	96°		
Operation	**Focus**		Auto / Manual	Auto / Manual	Fixed
	Zoom		Fixed		
	Iris		Fixed		
Active Deterrence			N/A		
Warm LED Quantity			3 Warm LEDs	2 White LEDs	3 Warm LEDs
Max. Warm LED Light Distance			30 m (100 ft)	20 m (65 ft)	30 m (100 ft)
Video Resolution					
Main Stream			2688 x 1520 (Default), 2560 x 1440, 1920 x 1080		
Sub Stream			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		
Third Stream			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		
Network					
Interface			10/100 Ethernet		
Mechanical					
Camera Angle Adjustment	**Pan**		0° ~ 360°	0° ~ 355°	0° ~ 360°
	Tilt		0° ~ 80°	0° ~ 70°	0° ~ 90°
	Rotate		0° ~ 360°	0° ~ 180°	0° ~ 360°
Connectors	**Power**		DC Jack		
	Ethernet		RJ-45		
	Audio	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.			
	Digital I/O		N/A		
	Local Storage		microSD card slot (SD / SDHC / SDXC), up to 512 GB		
General					
Operating Temperature			-30 ~ 60°C (-22 ~ 140°F)		
Humidity			0 ~ 95% (no condensation)		
Power Source			12V DC / PoE (IEEE802.3af)		
Max. Power Consumption			6.5 W	7 W	6.5 W
Certification			CE, FCC, RoHS compliant		
Dimensions			Ø 111.6 x 99.3 mm (Ø 4.39" x 3.91")	Ø 119 x 87.8 mm (Ø 4.7" x 3.46")	218.1 x 70.4 x 79.5 mm (8.58" x 2.77" x 3.12")
Weight			0.62 kg (1.37 lb)	0.64 kg (1.41 lb)	0.71 kg (1.57 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).