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## Box Camera Specifications (Part 1)









	GV-BX120D Varifocal Lens	GV-BX140DW Varifocal Lens	GV-BX130D Series		GV-BX220D Series		GV-BX320D Series		GV-BX520D Varifocal Lens	
										
<b>Camera</b>										
Image Sensor	1/3" progressive scan low lux CMOS		1/3" progressive scan CMOS		1/2.5" progressive scan CMOS					
Picture Elements	1280 (H) x 1024 (V)		1280 (H) x 720 (V)		1280 (H) x 1024 (V)		1920 (H) x 1080 (V)		2048 (H) x 1536 (V)	2560 (H) x 1920 (V)
Minimum Illumination	Color	0.05 Lux		0.2 Lux		0.15 Lux				
	B/W	0.03 Lux		0.08 Lux		0.10 Lux				
	IR ON	0 Lux								
Shutter Speed	Auto, Manual (1/5 ~ 1/4000 sec)		Auto		Auto, Manual (1/5 ~ 1/8000 sec)					
White Balance	Auto, Manual (2800K ~ 8500K)									
Gain Control	Automatic									
S/N Ratio	50 dB		47 dB		45 dB					
WDR Pro (with WDR sensor)	N/A		Yes		N/A					
Dynamic Range	Up to 72 dB		Up to 100 dB		Up to 72 dB					
<b>Operation</b>										
Video Compression	H.264, MJPEG									
Video Streaming	Dual streams									
Frame Rate	30 fps at 1280 x 1024	30 fps at 1280 x 720	30 fps at 1280 x 1024		30 fps at 1920 x 1080		20 fps at 2048 x 1536		10 fps at 2560 x 1920	
Audio Compression	G.711, AAC (optional)									
Sensor Input	1 input (Dry Contact)									
Alarm Output	1 Digital Output (200mA 5V DC)									
<b>Optical Lens</b>										
Megapixel	Yes									
Day/Night	Yes (with removable IR-cut filter)									
Lens Type	Varifocal Lens		Fixed Lens	Varifocal Lens						
Focal Length	2.8 ~ 12 mm		4.0 mm	2.8 ~ 12 mm	GV-BX220D-2	2.8 ~ 6 mm	GV-BX320D-0	3.1 ~ 8 mm	4.5 ~ 10 mm	
					GV-BX220D-3	2.8 ~ 12 mm	GV-BX320D-1	2.8 ~ 6 mm		
					GV-BX220D-2	F/1.3	GV-BX320D-0	F/1.2		
					GV-BX220D-3	F/1.4	GV-BX320D-1	F/1.3		
Maximum Aperture	F/1.4		F/1.5	F/1.4	F/1.6					
Mount	CS Mount									
Image Format	1/3"								1/2"	
Operation	Focus	Manual (w/lock)								
	Zoom	Manual (w/lock)		Fixed	Manual (w/lock)					
	Iris	DC drive	Fixed	Fixed	DC drive				Manual(w/lock)	
<b>Mechanical</b>										
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 (Stereo phone jack, 3.5 mm / 0.14")								
	Digital I/O	3-pin terminal block, pitch 2.5 mm / 0.1"								
	Auto Iris	DC drive	Not functional	DC drive					Not functional	
	Local Storage*	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported								
	TV-Out	BNC connector (640 x 480 resolution)								
LED Indicator	2 LEDs: Power, Status									
<b>General</b>										
Environment Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)									
Humidity	10% to 90% (no condensation)									
Power Source	12V DC / PoE (IEEE 802.3af)									
Max. Power Consumption	7 W									
Regulatory	CE, FCC, RCM, RoHS compliant									
Dimensions (L X W X H) (Without lens)	75.5 x 75 x 54 mm (2.97" x 2.95" x 2.13")									
Weight	321 g (0.71 lb)									

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Memory card slot (local storage) is not supported in Argentina.



## Box Camera Specifications (Part 2)

	GV-BX1300 Series		GV-BX2400 Series				GV-BX3400 Series						
	GV-BX1300-0F ~2F	GV-BX1300-3V	GV-BX2400-1F ~2F	GV-BX2400-3V~4V	GV-BX3400-1F ~2F	GV-BX3400-8F	GV-BX3400-4V~5V	GV-BX3400-3V P-Iris (Coming)					
	Fixed Lens	Varifocal Lens	Fixed Lens	Varifocal Lens	Fixed Lens	Varifocal Lens	Varifocal Lens	Varifocal Lens					
													
<b>Camera</b>													
<b>Image Sensor</b>	1/2.5" progressive scan CMOS				1/3.2" progressive scan CMOS								
<b>Picture Elements</b>	1280 (H) x 1024 (V)		1920 (H) x 1080 (V)			2048 (H) x 1536 (V)							
<b>Minimum Illumination</b>	<b>Color</b>	0.15 Lux		0.08 Lux									
	<b>B/W</b>	0.10 Lux		0.05 Lux									
	<b>IR ON</b>	0 Lux											
<b>Shutter Speed</b>	Auto, Manual (1/5 ~ 1/8000 sec)												
<b>White Balance</b>	Auto, Manual (2800K ~ 8500K)												
<b>Gain Control</b>	Automatic												
<b>S/N Ratio</b>	45 dB						47 dB						
<b>WDR Pro (with WDR Sensor)</b>	N/A		Yes										
<b>Dynamic Range</b>	Up to 72 dB		Up to 100 dB										
<b>Operation</b>													
<b>Video Compression</b>	H.264, MJPEG												
<b>Video Streaming</b>	Dual streams												
<b>Frame Rate</b>	30 fps at 1280 x 1024		30 fps at 1920 x 1080			20 fps at 2048 x 1536			30 fps at 1920 x 1080				
<b>Audio Compression</b>	G.711, AAC (optional)												
<b>Sensor Input</b>	1 input (Dry Contact)												
<b>Alarm Output</b>	1 Digital Output (200mA 5V DC)												
<b>Optical Lens</b>													
<b>Megapixel</b>	Yes												
<b>Day/Night</b>	Yes (with removable IR-cut filter)												
<b>Lens Type</b>	Fixed Lens		Varifocal Lens		Fixed Lens		Varifocal Lens						
<b>Focal Length</b>	BX1300-0F	4 mm	2.8 ~ 12 mm	BX2400-1F	8 mm	BX2400-3V	2.8 ~ 12 mm	BX3400-1F	8 mm	BX3400-4V	3 ~ 10.5 mm	BX3400-3V	3 ~ 10.5 mm
	BX1300-1F	8 mm		BX2400-2F	12 mm	BX2400-4V	3 ~ 10.5 mm	BX3400-2F	12 mm	BX3400-5V	2.8 ~ 6 mm		
	BX1300-2F	12 mm				BX2400-3V		BX3400-8F	2.8 mm	BX3400-4V	F/1.4		
<b>Maximum Aperture</b>	BX1300-0F	F/1.5	F/1.4	BX2400-1F	F/1.6	BX2400-4V	F/1.4	BX3400-1F	F/1.6	BX3400-4V	F/1.3	F/1.4	F/1.4
	BX1300-1F	F/1.6		BX2400-2F	F/1.6			BX3400-2F	F/1.6	BX3400-5V	F/1.3		
	BX1300-2F	F/1.6						BX3400-8F	F/1.8				
<b>Mount</b>	CS Mount												
<b>Image Format</b>	BX1300-0F	1/3"	1/2.7"	BX2400-1F	1/2.5"	BX2400-3V	1/2.7"	BX3400-1F	1/2.5"	BX3400-4V	1/2.7"	1/2.7"	1/2.7"
	BX1300-1F	1/2.5"		BX2400-2F	1/2.5"	BX2400-4V	1/2.7"	BX3400-2F	1/2.5"	BX3400-5V	1/3"		
	BX1300-2F	1/2.5"						BX3400-8F	1/2.5"				
<b>Horizontal FOV</b>	BX1300-0F	49°	64° ~ 23°	BX2400-1F	32°	BX2400-3V	77° ~ 28°	BX3400-1F	35°	BX3400-4V	78° ~ 28°	BX3400-3V	78° ~ 28°
	BX1300-1F	26°		BX2400-2F	21°	BX2400-4V	73° ~ 27°	BX3400-2F	23°	BX3400-5V	94° ~ 45°		
	BX1300-2F	17°						BX3400-8F	88°				
<b>Operation</b>	<b>Focus</b>	Manual w/lock											
	<b>Zoom</b>	Fixed	Manual (w/lock)	Fixed	Manual (w/lock)	Fixed	Manual (w/lock)	Fixed	Manual (w/lock)	Fixed	Manual (w/lock)	Fixed	Manual (w/lock)
	<b>Iris</b>	Fixed	DC drive	Fixed	DC drive	Fixed	DC drive	Fixed	DC drive	Fixed	DC drive	Fixed	P-Iris
<b>Mechanical</b>													
<b>Temperature Detector</b>	Yes												
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE											
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector											
	<b>Audio</b>	1 In (built-in or external microphone), 1 Out (Stereo phone jack, 3.5 mm / 0.14")											
	<b>Digital I/O</b>	3-pin terminal block, pitch 2.5 mm / 0.1"											
	<b>Auto Iris</b>	Not functional	Yes	Not functional	Yes	Not functional	Yes	Not functional	Yes	Not functional	Yes	Not functional	Yes
	<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported											
	<b>TV-Out</b>	BNC connector (640 x 480 resolution)											
<b>Mini USB</b>	GV-WiFi Adapter or USB hard drive												
<b>LED Indicator</b>	2 LEDs: Power, Status												
<b>General</b>													
<b>Environment Temperature</b>	0 °C ~ 50 °C (32 °F ~ 122 °F)												
<b>Humidity</b>	10% to 90% (no condensation)												
<b>Power Source</b>	12V DC / PoE (IEEE 802.3af Class 3)												
<b>Max. Power Consumption</b>	9.5 W				9.5 W				7.12 W				
<b>Regulatory</b>	CE, FCC, RCM, RoHS compliant												
<b>Dimensions (L X W X H)</b>	75.5 x 75 x 54 mm (2.97" x 2.95" x 2.13") without lens												
<b>Weight</b>	300 g (0.66 lb)												


- Note:**
- Product design and specifications are subject to change without notice.
  - The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
  - The TV-Out function only works under 640 x 480 resolution. For TV-Out to work properly, set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
  - Memory card slot (local storage) is not supported in Argentina.

- Mind the following limitations and requirements for the mini USB port:
  - The USB hard drive must be of 2.5" or 3.5", version 2.0 or above
  - The USB hard drive's storage capacity must not exceed 2TB
  - USB flash drives and USB hubs are not supported
  - External power supply is required for the USB hard drive
  - To connect a GV-WiFi Adapter, make sure it is connected before the camera is powered on.





## Box Camera Specifications (Part 4)




		GV-BX12201 (Coming)
		
<b>Camera</b>		
Image Sensor		1/1.7" progressive scan CMOS
Picture Elements		4000 (H) x 3000 (V)
Minimum Illumination	Color	0.1 Lux
	B/W	0.05 Lux
	IR ON	0 Lux
Shutter Speed		Automatic, Manual (1/30 ~ 1/16000 sec)
White Balance		Automatic, Manual (2800 ~ 8500K)
Gain Control		Automatic
S/N Ratio		52 dB
WDR Pro (with WDR sensor)		No
Dynamic Range		Up to 72 dB
<b>Operation</b>		
Video Compression		H.264, MJPEG
Video Streaming		Dual streams from H.264 or MJPEG
Frame Rate		15 fps at 4000 x 3000 30 fps at 3840 x 2160
Audio Compression		G.711, AAC (optional)
Sensor Input		1 Input (Dry Contact)
Alarm Output		1 Digital Output (200mA 5V DC)
<b>Optical Lens</b>		
Megapixel		Yes
Day/Night		Yes (with removable IR-cut filter)
Lens Type		Varifocal Lens
Focal Length		4.1 ~ 9 mm
Maximum Aperture		F/1.6
Mount		CS Mount
Image Format		1/1.8"
Horizontal FOV		109° ~ 50°
Operation	Focus	Manual (w/lock)
	Zoom	Manual (w/lock)
	Iris	DC drive
<b>Mechanical</b>		
Temperature Detector		Yes
Connectors	Power	2-pin terminal block, PoE
	Ethernet	RJ-45 connector
	Audio	1 In (Using the built-in microphone or externally connecting a microphone) 1 Out (Stereo phone jack, 3.5 mm / 0.14 in)
	Digital I/O	3-pin terminal block, pitch 2.5 mm (0.1")
	Auto Iris	Yes (with varifocal lens)
	Local Storage*	Micro SD card slot (SDHC/SDXC/UHS-I, Class 10) *UHS-II card types are not supported. <b>*Currently, the local storage function is not supported.</b>
	TV-Out	BNC connector (640 x 480 resolution)
	Mini USB	GV-WiFi Adapter
LED Indicator		2 LEDs: Power, Status
<b>General</b>		
Environment Temperature		0 °C ~ 50 °C (32 °F ~ 122 °F)
Humidity		10% to 90% (no condensation)
Power Source		12V DC / 24V AC / PoE (IEEE 802.3af)
Max. Power Consumption		6 W
Regulatory		CE, FCC, RCM, RoHS compliant
Dimensions		Without lens: 120 x 75.2 x 54 mm (4.72" x 2.96" x 2.13") With lens: 184.1 x 75.2 x 64.1 mm (7.25" x 2.96" x 2.52")
Weight		545 g / 1.2 lb

### Note:

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Memory card slot (local storage) is not supported in Argentina.



## Ultra Box Camera Specifications





	GV-UBX1301 Series		GV-UBX2301 Series		GV-UBX3301 Series		
							
<b>Camera</b>							
<b>Image Sensor</b>	1/2.5" progressive scan CMOS						
<b>Picture Elements</b>	1280 (H) x 1024 (V)		1920 (H) x 1080 (V)		2048 (H) x 1536 (V)		
<b>Minimum Illumination</b>	<b>Color</b>	0.15 Lux					
	<b>B/W</b>	0.10 Lux					
	<b>IR ON</b>	0 Lux					
<b>Shutter Speed</b>	Auto, Manual (1/5 ~ 1/8000 sec)						
<b>White Balance</b>	Auto, Manual (2800K ~ 8500K)						
<b>Gain Control</b>	Automatic						
<b>S/N Ratio</b>	45dB						
<b>Dynamic Range</b>	Up to 72 dB						
<b>Operation</b>							
<b>Video Compression</b>	H.264, MJPEG						
<b>Video Streaming</b>	Dual streams						
<b>Frame Rate</b>	30 fps at 1280 x 1024		30 fps at 1920 x 1080		20 fps at 2048 x 1536		
<b>Audio Compression</b>	G.711, AAC (optional)						
<b>Optical Lens</b>							
<b>Megapixel</b>	Yes						
<b>Day/Night</b>	Yes (with removable IR-cut filter)						
<b>Lens Type</b>	Fixed						
<b>Focal Length</b>	GV-UBX1301-0F	2.8 mm	GV-UBX2301-0F	2.8 mm	GV-UBX3301-0F	2.8 mm	
	GV-UBX1301-1F	4 mm	GV-UBX2301-1F	4 mm	GV-UBX3301-1F	4 mm	
	GV-UBX1301-2F	8 mm	GV-UBX2301-2F	8 mm	GV-UBX3301-2F	8 mm	
<b>Maximum Aperture</b>	GV-UBX1301-0F	F/2.0	GV-UBX2301-0F	F/2.0	GV-UBX3301-0F	F/2.0	
	GV-UBX1301-1F	F/1.6	GV-UBX2301-1F	F/1.6	GV-UBX3301-1F	F/1.6	
	GV-UBX1301-2F		GV-UBX2301-2F		GV-UBX3301-2F		
<b>Mount</b>	M12, Pitch 0.5 mm						
<b>Image Format</b>	1/3"						
<b>Horizontal FOV</b>	GV-UBX1301-0F	69°	GV-UBX2301-0F	79°	GV-UBX3301-0F	80°	
	GV-UBX1301-1F	49°	GV-UBX2301-1F	58°	GV-UBX3301-1F	62°	
	GV-UBX1301-2F	25°	GV-UBX2301-2F	31°	GV-UBX3301-2F	33°	
<b>Operation</b>	<b>Focus</b>	Fixed					
	<b>Zoom</b>						
	<b>Iris</b>						
<b>IR LED Quantity</b>	4						
<b>Max. IR Distance</b>	10 m (32.81 ft)						
<b>Mechanical</b>							
<b>Temperature Detector</b>	Yes						
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE					
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector					
	<b>Audio</b>	1 In (built-in microphone), 1 Out (Stereo phone jack, 3.5 mm / 0.14")					
<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10)						
	*SDXC and UHS-I card types are not supported						
<b>LED Indicator</b>	2 LEDs: Power, Status						
<b>General</b>							
<b>Environment Temperature</b>	0°C ~ 40°C (32°F ~ 104°F)						
<b>Humidity</b>	10% to 90% (no condensation)						
<b>Power Source</b>	5V DC / PoE (IEEE 802.3af)						
<b>Max. Power Consumption</b>	6.5 W						
<b>Regulatory</b>	CE, FCC, RCM, RoHS compliant						
<b>Dimensions (L X W X H) (Without lens)</b>	95 x 45 x 40 mm (3.7" x 1.8" x 1.6")						
<b>Weight</b>	120 g (0.26 lb)						

### Note:

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Memory card slot (local storage) is not supported in Argentina.



## IR Arctic Box Camera Specifications (Part 1)

		GV-BX120D-E	GV-BX220D-E	GV-BX320D-E	GV-BX520D-E
					
<b>Camera</b>					
<b>Image Sensor</b>		1/3" progressive scan low lux CMOS		1/2.5" progressive scan CMOS	
<b>Picture Elements</b>		1280 (H) x 1024 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	2560 (H) x 1920 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.05 Lux		0.15 Lux	
	<b>B/W</b>	0.03 Lux		0.10 Lux	
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)			
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>		Automatic			
<b>S/N Ratio</b>		50 dB			45 dB
<b>Dynamic Range</b>		Up to 72 dB			
<b>Operation</b>					
<b>Video Compression</b>		H.264, MJPEG			
<b>Video Streaming</b>		Dual streams			
<b>Frame Rate</b>		30 fps at 1280 x 1024	30 fps at 1920 x 1080	20 fps at 2048 x 1536	10 fps at 2560 x 1920
<b>Audio Compression</b>		G.711, AAC (optional)			
<b>Optical Lens</b>					
<b>Megapixel</b>		Yes			
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Varifocal Lens			
<b>Focal Length</b>		2.8 ~ 12 mm	2.8 ~ 6 mm		4.5 ~ 10 mm
<b>Maximum Aperture</b>		F/1.4	F/1.3		F/1.6
<b>Mount</b>		CS Mount			
<b>Image Format</b>		1/3"			1/2"
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)			
	<b>Zoom</b>	Manual (w/lock)			
	<b>Iris</b>	DC drive			Manual (w/lock)
<b>IR LED Quantity</b>		4 IR LEDs			
<b>Max. IR Distance</b>		15 m (50 ft)			
<b>Mechanical</b>					
<b>Camera</b>	<b>Pan</b>	0° ~ 330°			
<b>Angle</b>	<b>Tilt</b>	0° ~ 90°			
<b>Adjustment</b>	<b>Rotate</b>	No			
<b>Temperature</b>	<b>Detector</b>	Yes			
<b>Connectors</b>	<b>Power</b>	PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	1 In (external microphone)			
		1 Out (Stereo phone jack, 3.5 mm / 0.14")			
	<b>Auto Iris</b>	DC drive			Not functional
<b>TV-Out</b>	BNC connector (640 x 480 resolution)				
<b>LED Indicator</b>		1 LED: Status			
<b>General</b>					
<b>Environment Temperature</b>		-40 °C ~ 50 °C (-40 °F ~ 122 °F)			
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		PoE (IEEE 802.3 at)			
<b>Max. Power Consumption</b>		24 W			
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant			
<b>Dimensions (L X W X H) (Without lens)</b>		100.5 x 100.5 x 317.5 mm (3.96" x 3.96" x 12.5")			
<b>Weight</b>		3.2 Kg (7.1 lb)			
<b>Ingress Protection</b>		IP67			
<b>Vandal Resistance</b>		IK10 for metal casing			
<b>Heater On</b>		-40°C ~ 8°C (-40°F ~ 46.4°F)			
<b>Fan</b>		Constantly on			





**Note:**

1. Product design and specifications are subject to change without notice.
2. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
3. **Memory card slot (local storage) is not supported in Argentina.**





## IR Arctic Box Camera Specifications (Part 2)



		GV-BX1500-E	GV-BX2400-E	GV-BX3400-E	GV-BX5310-E
					
<b>Camera</b>					
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS		1/3.2" progressive scan CMOS	
<b>Picture Elements</b>		1280 (H) x 1024 (V)		2048 (H) x 1536 (V)	
<b>Minimum Illumination</b>	Color	0.01 Lux		0.08 Lux	
	B/W	0.01 Lux		0.05 Lux	
	IR ON			0 Lux	
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)			
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>		Automatic			
<b>S/N Ratio</b>		55 dB		47 dB	
<b>WDR Pro (with WDR Sensor)</b>		N/A		Yes	
<b>Dynamic Range</b>		Up to 72 dB		Up to 100 dB	
<b>Operation</b>					
<b>Video Compression</b>		H.264, MJPEG			
<b>Video Streaming</b>		Dual streams			
<b>Frame Rate</b>		30 fps at 1280 x 1024		20 fps at 2048 x 1536	
<b>Audio Compression</b>		G.711, AAC (optional)			
<b>Optical Lens</b>					
<b>Megapixel</b>		Yes			
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Varifocal Lens			
<b>Focal Length</b>		3 ~ 10.5 mm		4.5 ~ 10 mm	
<b>Maximum Aperture</b>		F/1.4		F/1.6	
<b>Mount</b>		CS Mount			
<b>Image Format</b>		1/2.7"		1/2"	
<b>Horizontal FOV</b>		81° ~ 29°		78° ~ 28°	
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)			
	<b>Zoom</b>	Manual (w/lock)			
	<b>Iris</b>	DC drive; P-Iris (Coming)		DC drive	
<b>IR LED Quantity</b>		4 IR LEDs			
<b>Max. IR Distance</b>		15 m (50 ft)			
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 330°			
	<b>Tilt</b>	0° ~ 90°			
	<b>Rotate</b>	No			
<b>Temperature Detector</b>		Yes			
<b>Connectors</b>	<b>Power</b>	PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	1 In (external microphone), 1 Out (Stereo phone jack, 3.5 mm / 0.14")			
	<b>Auto Iris</b>	Yes (with varifocal lens)		Not functional	
	<b>TV-Out</b>	BNC connector (640 x 480 resolution)			
<b>LED Indicator</b>		2 LEDs: Power, Status			
<b>General</b>					
<b>Environment</b>	<b>Start-up</b>	-30 °C ~ 50 °C (-22°F ~ 122°F)			
<b>Temperature</b>	<b>Operation</b>	-40 °C ~ 50 °C (-40°F ~ 122°F)			
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		PoE (IEEE 802.3 at)			
<b>Max. Power Consumption</b>		20 W		21.6 W	
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant			
<b>Dimensions (L X W X H) (Without lens)</b>		100.5 x 100.5 x 317.5 mm (3.96" x 3.96" x 12.5")			
<b>Weight</b>		3.2 Kg (7.1 lb)			
<b>Ingress Protection</b>		IP67			
<b>Vandal Resistance</b>		IK10 for metal casing			
<b>Heater On</b>		-40°C ~ 8°C (-40°F ~ 46.4°F)			
<b>Fan</b>		Constantly on			

**Note:**

1. Product design and specifications are subject to change without notice.
2. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
3. **Memory card slot (local storage) is not supported in Argentina.**



### IR Arctic Box Camera Specifications (Part 3)





		GV-BX2510-E (Coming)	GV-BX5310-E (Coming)
			
<b>Camera</b>			
<b>Image Sensor</b>		1/2.8" progressive scan super low lux CMOS	1/2.5" progressive scan CMOS
<b>Picture Elements</b>		1920 (H) x 1080 (V)	2560 (H) x 1920 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.02 Lux	0.15 Lux
	<b>B/W</b>	0.02 Lux	0.10 Lux
	<b>IR ON</b>	0 Lux	
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)	
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)	
<b>Gain Control</b>		Automatic	
<b>S/N Ratio</b>		52 dB	45 dB
<b>WDR Pro (with WDR Sensor)</b>		N/A	N/A
<b>Dynamic Range</b>		Up to 72 dB	Up to 72 dB
<b>Operation</b>			
<b>Video Compression</b>		H.264, MJPEG	
<b>Video Streaming</b>		Dual streams	
<b>Frame Rate</b>		30 fps at 1920 x 1080	10 fps at 2560 x 1920
<b>Audio Compression</b>		G.711, AAC (optional)	
<b>Sensor Input</b>		1 input (Dry Contact)	
<b>Alarm Output</b>		1 digital output (200mA 5V DC)	
<b>Optical Lens</b>			
<b>Megapixel</b>		Yes	
<b>Day/Night</b>		Yes (with removable IR-cut filter)	
<b>Lens Type</b>		Motorized Varifocal Lens	
<b>Focal Length</b>		3.7 ~ 9 mm	4.5 ~ 9 mm
<b>Maximum Aperture</b>		F/1.2	F/1.2
<b>Mount</b>		Ø14 mm	
<b>Image Format</b>		1/2.7"	1/2.7"
<b>Horizontal FOV</b>		85° ~ 36°	70° ~ 39°
<b>Operation</b>	<b>Focus</b>	Auto focus	
	<b>Zoom</b>	2.4X optical zoom	2X optical zoom
	<b>Iris</b>	P-Iris	
<b>IR LED Quantity</b>		4 IR LEDs	
<b>Max. IR Distance</b>		70 m (230 ft)	50 m (164 ft)
<b>Mechanical</b>			
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 330°	
	<b>Tilt</b>	0° ~ 90°	
	<b>Rotate</b>	No	
<b>Temperature Detector</b>		Yes	
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE	
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector	
	<b>Audio</b>	1 In (external microphone), 1 Out (Stereo phone jack, 3.5 mm / 0.14")	
	<b>Digital I/O</b>	I/O wires	
	<b>Local Storage</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported	
<b>TV-Out</b>		BNC connector (640 x 480 resolution)	
<b>LED Indicator</b>		2 LEDs: Power, Status	
<b>General</b>			
<b>Environment Temperature</b>	<b>Start-up</b>	-30 °C ~ 50 °C (-22°F ~ 122°F)	
	<b>Operation</b>	-40 °C ~ 50 °C (-40°F ~ 122°F)	
<b>Humidity</b>		10% to 90% (no condensation)	
<b>Power Source</b>		AC 24V, DC 48V, PoE++ (50W)	
<b>Max. Power Consumption</b>		50 W	
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant	
<b>Dimensions (L X W X H)</b>	<b>Camera Body</b>	406 x 145 x 109.5 mm (16" x 5.7" x 4.3")	
	<b>Cable Length</b>	1 m (39.4")	
<b>Weight</b>		3.32 Kg (7.32 lb)	
<b>Ingress Protection</b>		IP67	
<b>Vandal Resistance</b>		IK10 for metal casing	
<b>Heater On</b>		On: -40 °C ~ -4 °C (-40 °F ~ 24.8 °F); Off: -3 °C (26.6 °F)	
<b>Fan</b>		Constantly on	

**Note:**

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- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.



## Bullet Camera Specifications (Part 1)





		GV-BL120D	GV-BL130D	GV-BL220D	GV-BL320D
					
<b>Camera</b>					
<b>Image Sensor</b>		1/3" progressive scan low lux CMOS		1/2.5" progressive scan CMOS	
<b>Picture Elements</b>		1280 (H) x 1024 (V)		1920 (H) x 1080 (V)	2048 (H) x 1536 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.05 Lux		0.15 Lux	
	<b>B/W</b>	0.03 Lux		0.10 Lux	
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000sec)			
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>		Automatic			
<b>S/N Ratio</b>		50 dB	45 dB		
<b>Dynamic Range</b>		Up to 72 dB			
<b>Operation</b>					
<b>Video Compression</b>		H.264, MJPEG			
<b>Video Streaming</b>		Dual streams			
<b>Frame Rate</b>		30 fps at 1280 x 1024	30 fps at 1920 x 1080	20 fps at 2048 x 1536	
<b>Audio Compression</b>		G.711, AAC (optional)			
<b>Sensor Input</b>		1 input (Dry Contact)			
<b>Alarm Output</b>		1 digital output (200mA 5V DC)			
<b>Optical Lens</b>					
<b>Megapixel</b>		Yes			
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Varifocal Lens			
<b>Focal Length</b>		3 ~ 9 mm			
<b>Maximum Aperture</b>		F/1.2			
<b>Mount</b>		Ø14 mm			
<b>Image Format</b>		1/2.7"			
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)			
	<b>Zoom</b>	Manual (w/lock)			
	<b>Iris</b>	DC drive			
<b>IR LED Quantity</b>		16 IR LEDs			
<b>Max. IR Distance</b>		15 m (50 ft)			
<b>Mechanical</b>					
<b>Camera Adjustment</b>	<b>Pan</b>	0° ~ 360°			
	<b>Tilt</b>	90° ~ 180°			
	<b>Rotate</b>	0° ~ 360°			
<b>Temperature Detector</b>		Yes			
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	1 In (RCA female for microphone); 1 Out (RCA female for speaker)			
	<b>Digital I/O</b>	I/O Wire			
	<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported			
<b>General</b>					
<b>Environment Temperature</b>		-20 °C ~ 50 °C (-4 °F ~ 122 °F)			
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE 802.3af)			
<b>Max. Power Consumption</b>		12W			
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant			
<b>Dimensions</b>	<b>Camera Body</b>	277.5 x 87.75 x 148.95 mm (10.9" x 3.45" x 5.86")			
	<b>Cable Length</b>	1 m (3.28 ft)			
	<b>Max. Cable Diameter</b>	Ø 7.1 mm (0.28")			
	<b>Max. Connector Diameter</b>	Ø 25.2 mm (0.99")			
<b>Weight</b>		1.35 kg (2.98 lb)			
<b>Ingress Protection</b>		IP66			

**Note:**

1. Product design and specifications are subject to change without notice.
2. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
3. Memory card slot (local storage) is not supported in Argentina.



## Bullet Camera Specifications (Part 2)




		GV-BL1500	GV-BL2400	GV-BL2500	GV-BL3400
					
<b>Camera</b>					
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS	1/2.8" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS
<b>Picture Elements</b>		1280 (H) x 1024 (V)	1920 (H) x 1080 (V)		2048 (H) x 1536 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.01 Lux	0.08 Lux	0.02 Lux	0.08 Lux
	<b>B/W</b>	0.01 Lux	0.05 Lux	0.02 Lux	0.05 Lux
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000sec)			
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>		Automatic			
<b>S/N Ratio</b>		55 dB	47 dB	52 dB	47 dB
<b>WDR Pro (with WDR sensor)</b>		N/A	Yes	N/A	Yes
<b>Dynamic Range</b>		Up to 72 dB	Up to 100 dB	Up to 72 dB	Up to 100 dB
<b>Operation</b>					
<b>Video Compression</b>		H.264, MJPEG			
<b>Video Streaming</b>		Dual streams			
<b>Frame Rate</b>		30 fps at 1280 x 1024	30 fps at 1920 x 1080		20 fps at 2048 x 1536
<b>Audio Compression</b>		G.711, AAC (optional)			
<b>Sensor Input</b>		1 input (Dry Contact)			
<b>Alarm Output</b>		1 digital output (200mA 5V DC)			
<b>Optical Lens</b>					
<b>Megapixel</b>		Yes			
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Varifocal Lens			
<b>Focal Length</b>		3 ~ 9 mm			
<b>Maximum Aperture</b>		F/1.2			
<b>Mount</b>		Ø14 mm			
<b>Image Format</b>		1/2.7"			
<b>Horizontal FOV</b>		90° ~ 32°	82° ~ 30°	103° ~ 36°	86° ~ 31°
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)			
	<b>Zoom</b>	Manual (w/lock)			
	<b>Iris</b>	DC drive	DC drive	DC drive	DC drive
<b>IR LED Quantity</b>		16 IR LEDs			
<b>Max. IR Distance</b>		70 m (230 ft)	50 m (164 ft)		
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°			
	<b>Tilt</b>	90° ~ 180°			
	<b>Rotate</b>	0° ~ 360°			
<b>Temperature Detector</b>		Yes			
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	1 In (RCA female for microphone); 1 Out (RCA female for speaker)			
	<b>Digital I/O</b>	I/O Wire			
<b>Local Storage*</b>		Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported			
<b>General</b>					
<b>Environment Temperature</b>		-30 °C ~ 50 °C (-22 °F ~ 122 °F)			
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE 802.3af)			
<b>Max. Power Consumption</b>		7.68 W	7.2 W	8 W	7.2 W
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant			
<b>Dimensions</b>	<b>Camera Body</b>	277.5 x 87.75 x 148.95 mm (10.9" x 3.45" x 5.86")			
	<b>Cable Length</b>	1 m (3.28 ft)			
	<b>Max. Cable Diameter</b>	Ø 7.1 mm (0.28")			
	<b>Max. Connector Diameter</b>	Ø 25.2 mm (0.99")			
<b>Weight</b>		1.4 Kg (3.08 lb)	1.35 kg (2.98 lb)	1.4 Kg (3.08 lb)	1.35 kg (2.98 lb)
<b>Ingress Protection</b>		IP67			
<b>Vandal Resistance</b>		IK10 for metal casing			

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.



### Bullet Camera Specifications (Part 3)






		GV-BL1210	GV-BL3410	GV-BL5310
				
<b>Camera</b>				
<b>Image Sensor</b>		1/3" progressive scan low lux CMOS	1/3.2" progressive scan CMOS	1/2.5" progressive scan CMOS
<b>Picture Elements</b>		1280 (H) x 1024 (V)	2048 (H) x 1536 (V)	2560 (H) x 1920 (V)
<b>Minimum Illumination</b>	Color	0.05 Lux	0.08 Lux	0.15 Lux
	B/W	0.03 Lux	0.05 Lux	0.10 Lux
	IR ON		0 Lux	
<b>Shutter Speed</b>			Auto, Manual (1/5 ~ 1/8000sec)	
<b>White Balance</b>			Auto, Manual (2800K ~ 8500K)	
<b>Gain Control</b>			Automatic	
<b>S/N Ratio</b>		50 dB	47 dB	45 dB
<b>WDR Pro (with WDR sensor)</b>		N/A	Yes	N/A
<b>Dynamic Range</b>		Up to 72 dB	Up to 100 dB	Up to 72 dB
<b>Operation</b>				
<b>Video Compression</b>			H.264, MJPEG	
<b>Video Streaming</b>			Dual streams	
<b>Frame Rate</b>		30 fps at 1280 x 1024	20 fps at 2048 x 1536	10 fps at 2560 x 1920
<b>Audio Compression</b>			G.711, AAC (optional)	
<b>Sensor Input</b>			1 input (Dry Contact)	
<b>Alarm Output</b>			1 digital output (200mA 5V DC)	
<b>Optical Lens</b>				
<b>Megapixel</b>			Yes	
<b>Day/Night</b>			Yes (with removable IR-cut filter)	
<b>Lens Type</b>			Motorized Varifocal Lens	
<b>Focal Length</b>		3 ~ 9 mm		4.5 ~ 9 mm
<b>Maximum Aperture</b>			F/1.2	
<b>Mount</b>			Ø14 mm	
<b>Image Format</b>			1/2.7"	
<b>Horizontal FOV</b>		86° ~ 32°	86° ~ 31°	70° ~ 39°
<b>Operation</b>	Focus		Auto Focus	
	Zoom	3X Optical Zoom		2X Optical Zoom
	Iris		DC drive	
<b>IR LED Quantity</b>			16 IR LEDs	
<b>Max. IR Distance</b>		40 m (131 ft)	50 m (164 ft)	40 m (131 ft)
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	Pan		0° ~ 360°	
	Tilt		90° ~ 180°	
	Rotate		0° ~ 360°	
<b>Temperature Detector</b>			Yes	
<b>Connectors</b>	Power		2-pin terminal block, PoE	
	Ethernet		Ethernet (10/100 Base-T), RJ-45 connector	
	Audio		1 In (RCA female for microphone) 1 Out (RCA female for speaker)	
	Digital I/O		I/O Wire	
	Local Storage*		Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported	
<b>General</b>				
<b>Environment Temperature</b>			-20 °C ~ 50 °C (-4 °F ~ 122 °F)	
<b>Humidity</b>			10% to 90% (no condensation)	
<b>Power Source</b>			12V DC / 24V AC / PoE (IEEE 802.3af)	
<b>Max. Power Consumption</b>		11.52 W	12.48 W	
<b>Regulatory</b>			CE, FCC, RCM, RoHS compliant	
<b>Dimensions</b>	Camera Body	289.02 x 87.75 x 148.95 mm (11.4" x 3.45" x 5.86")		
	Cable Length	1 m (3.28 ft)		
	Max. Cable Diameter	Ø 7.1 mm (0.28")		
	Max. Connector Diameter	Ø 25.2 mm (0.99")		
<b>Weight</b>			1.4 Kg (3.08 lb)	
<b>Ingress Protection</b>			IP67	
<b>Vandal Resistance</b>			IK10 for metal casing	

**Note:**

1. Product design and specifications are subject to change without notice.
2. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
3. **Memory card slot (local storage) is not supported in Argentina.**



## Bullet Camera Specifications (Part 4)





	GV-BL1501 (Coming)	GV-BL2501 (Coming)	GV-BL3401 (Coming)	GV-BL2511-E	GV-BL5311-E	
						
<b>Camera</b>						
<b>Image Sensor</b>	1/3" progressive scan super low lux CMOS	1/2.8" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS	1/2.8" progressive scan super low lux CMOS	1/2.5" progressive scan CMOS	
<b>Picture Elements</b>	1280 (H) x 1024 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	1920 (H) x 1080 (V)	2560 (H) x 1920 (V)	
<b>Minimum Illumination</b>	Color	0.01 Lux	0.02 Lux	0.08 Lux	0.02 Lux	0.15 Lux
	B/W	0.01 Lux	0.02 Lux	0.05 Lux	0.02 Lux	0.10 Lux
	IR ON	0 Lux				
<b>Shutter Speed</b>	Auto, Manual (1/5 ~ 1/8000sec)					
<b>White Balance</b>	Auto, Manual (2800K ~ 8500K)					
<b>Gain Control</b>	Automatic					
<b>S/N Ratio</b>	55 dB	52 dB	47 dB	52 dB	45 dB	
<b>WDR Pro (with WDR sensor)</b>	N/A	N/A	Yes	N/A	N/A	
<b>Dynamic Range</b>	Up to 72 dB	Up to 72 dB	Up to 100 dB	Up to 72 dB	Up to 72 dB	
<b>Operation</b>						
<b>Video Compression</b>	H.264, MJPEG					
<b>Video Streaming</b>	Dual streams					
<b>Frame Rate</b>	30 fps at 1280 x 1024	30 fps at 1920 x 1080	20 fps at 2048 x 1536	30 fps at 1920 x 1080	10 fps at 2560 x 1920	
<b>Audio Compression</b>	G.711, AAC (optional)					
<b>Sensor Input</b>	1 input (Dry Contact)					
<b>Alarm Output</b>	1 digital output (200mA 5V DC)					
<b>Optical Lens</b>						
<b>Megapixel</b>	Yes					
<b>Day/Night</b>	Yes (with removable IR-cut filter)					
<b>Lens Type</b>	Varifocal Lens			Motorized Varifocal Lens		
<b>Focal Length</b>	3 ~ 9 mm					
<b>Maximum Aperture</b>	F/1.2					
<b>Mount</b>	Ø14 mm					
<b>Image Format</b>	1/2.7"					
<b>Horizontal FOV</b>	90° ~ 32°	103° ~ 36°	86° ~ 31°	103° ~ 36°	70° ~ 39°	
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)			Auto Focus	
	<b>Zoom</b>	Manual (w/lock)			3X Optical Zoom	2X Optical Zoom
	<b>Iris</b>	P-Iris				
<b>IR LED Quantity</b>	16 IR LEDs					
<b>Max. IR Distance</b>	70 m (230 ft)	50 m (164 ft)		50 m (164 ft)	40 m (131 ft)	
<b>Mechanical</b>						
<b>Camera</b>	<b>Pan</b>	0° ~ 360°				
<b>Angle</b>	<b>Tilt</b>	90° ~ 180°				
<b>Adjustment</b>	<b>Rotate</b>	0° ~ 360°				
<b>Temperature Detector</b>	Yes					
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE			2-pin terminal block	
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector				
	<b>Audio</b>	1 In (3.5 mm phone jack for microphone), 1 Out (3.5 mm phone jack for speaker)				
	<b>Digital I/O</b>	3-pin terminal block				
<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported					
<b>General</b>						
<b>Environment Temperature</b>	-30 °C ~ 50 °C (-22 °F ~ 122 °F)			-40°C ~ 50°C (-40 °F ~ 122 °F)		
<b>Humidity</b>	10% to 90% (no condensation)					
<b>Power Source</b>	12V DC / 24V AC / PoE (IEEE802.3af)			12V DC / 24V AC		
<b>Max. Power Consumption</b>	7.68 W	8 W	7.2 W	34 W	33.2 W	
<b>Regulatory</b>	CE, FCC, RCM, RoHS compliant					
<b>Dimensions</b>	340.4 x 87.75 x 120 mm (13.4" x 3.45" x 4.72")			355.4 x 87.75 x 120 mm (14" x 3.45" x 4.72")		
<b>Weight</b>	1.91 kg (4.21 lb)			1.96 kg (4.32 lb)		
<b>Heater</b>	N/A					
<b>Fan</b>	NA					
<b>Ingress Protection</b>	IP67					
<b>Vandal Resistance</b>	IK10 for metal casing					

### Note:

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.



## Bullet Camera Specifications (Part 5)




		GV-BL1511 (Coming)	GV-BL2511 (Coming)	GV-BL3411 (Coming)	GV-BL5311 (Coming)
					
<b>Camera</b>					
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS	1/2.8" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS	1/2.5" progressive scan CMOS
<b>Picture Elements</b>		1280 (H) x 1024 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	2560 (H) x 1920 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.01 Lux	0.02 Lux	0.08 Lux	0.15 Lux
	<b>B/W</b>	0.01 Lux	0.02 Lux	0.05 Lux	0.10 Lux
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000sec)			
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>		Automatic			
<b>S/N Ratio</b>		55 dB	52 dB	47 dB	45 dB
<b>WDR Pro (with WDR sensor)</b>		N/A	N/A	Yes	N/A
<b>Dynamic Range</b>		Up to 72 dB	Up to 72 dB	Up to 100 dB	Up to 72 dB
<b>Operation</b>					
<b>Video Compression</b>		H.264, MJPEG			
<b>Video Streaming</b>		Dual streams			
<b>Frame Rate</b>		30 fps at 1280 x 1024	30 fps at 1920 x 1080	20 fps at 2048 x 1536	10 fps at 2560 x 1920
<b>Audio Compression</b>		G.711, AAC (optional)			
<b>Sensor Input</b>		1 input (Dry Contact)			
<b>Alarm Output</b>		1 digital output (200mA 5V DC)			
<b>Optical Lens</b>					
<b>Megapixel</b>		Yes			
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Motorized Varifocal Lens			
<b>Focal Length</b>		3 ~ 9 mm			4.5 ~ 9 mm
<b>Maximum Aperture</b>		F/1.2			
<b>Mount</b>		Ø14 mm			
<b>Image Format</b>		1/2.7"			
<b>Horizontal FOV</b>		90° ~ 32°	103° ~ 36°	86° ~ 31°	70° ~ 39°
<b>Operation</b>	<b>Focus</b>	Auto Focus			
	<b>Zoom</b>	3X Optical Zoom			2X Optical Zoom
	<b>Iris</b>	P-Iris			
<b>IR LED Quantity</b>		16 IR LEDs			
<b>Max. IR Distance</b>		70 m (230 ft)	50 m (164 ft)	40 m (131 ft)	
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°			
	<b>Tilt</b>	90° ~ 180°			
	<b>Rotate</b>	0° ~ 360°			
<b>Temperature Detector</b>		Yes			
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	1 In (3.5 mm phone jack for microphone), 1 Out (3.5 mm phone jack for speaker)			
	<b>Digital I/O</b>	3-pin terminal block			
	<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported			
<b>General</b>					
<b>Environment Temperature</b>		-20 °C ~ 50 °C (-4 °F ~ 122 °F)			
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE802.3af)			
<b>Max. Power Consumption</b>		13.8 W	13.4 W	12.48 W	
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant			
<b>Dimensions</b>		355.4 x 87.75 x 120 mm (14" x 3.45" x 4.72")			
<b>Weight</b>		1.96 Kg (4.32 lb)			
<b>Ingress Protection</b>		IP67			
<b>Vandal Resistance</b>		IK10 for metal casing			

**Note:**

1. Product design and specifications are subject to change without notice.
2. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
3. Memory card slot (local storage) is not supported in Argentina.



## Ultra Bullet Camera Specifications (Part 1)

	GV-UBL 1211	GV-UBL2411	GV-UBL3411
			
<b>Camera</b>			
<b>Image Sensor</b>	1/3" progressive scan low lux CMOS	1/3.2" progressive scan CMOS	1/3.2" progressive scan CMOS
<b>Picture Elements</b>	1280 (H) x 1024 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)
<b>Minimum Illumination</b>	Color	0.05 Lux	0.08 Lux
	B/W	0.03 Lux	0.05 Lux
	IR ON		0 Lux
<b>Shutter Speed</b>	Auto, Manual (1/5 ~ 1/8000sec)		
<b>White Balance</b>	Auto, Manual (2800K ~ 8500K)		
<b>Gain Control</b>	Automatic		
<b>S/N Ratio</b>	50 dB	47 dB	47 dB
<b>WDR Pro (with WDR sensor)</b>	N/A	Yes	Yes
<b>Dynamic Range</b>	Up to 72 dB	Up to 100 dB	Up to 100 dB
<b>Operation</b>			
<b>Video Compression</b>	H.264, MJPEG		
<b>Video Streaming</b>	Dual streams		
<b>Frame Rate</b>	30 fps at 1280 x 1024	30 fps at 1920 x 1080	20 fps at 2048 x 1536
<b>Sensor Input</b>	1 input (Dry Contact)		
<b>Alarm Output</b>	1 digital output (200mA 5V DC)		
<b>Optical Lens</b>			
<b>Megapixel</b>	Yes		
<b>Day/Night</b>	Yes (with removable IR-cut filter)		
<b>Lens Type</b>	Motorized Varifocal Lens		
<b>Focal Length</b>	3~9 mm		
<b>Maximum Aperture</b>	F/1.2		
<b>Mount</b>	Ø14 mm		
<b>Image Format</b>	1/2.7"		
<b>Horizontal FOV</b>	86° ~ 32°	82° ~ 30°	86° ~ 31°
<b>Operation</b>	Focus	Auto Focus	
	Zoom	3X Optical Zoom	
	Iris	DC Drive	
<b>IR LED Quantity</b>	4 IR LEDs		
<b>Max. IR Distance</b>	10 m (32.81 ft)		
<b>Mechanical</b>			
<b>Temperature Detector</b>	Yes		
<b>Connectors</b>	Power	2-pin terminal block, PoE	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector (Waterproof or smaller-sized Non-Waterproof)	
	Digital I/O	I/O Wire	
<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported		
<b>General</b>			
<b>Environment Temperature</b>	-10 °C ~ 45 °C (14 °F ~ 113 °F)		
<b>Humidity</b>	10% to 90% (no condensation)		
<b>Power Source</b>	5V DC / PoE (IEEE 802.3af)		
<b>Max. Power Consumption</b>	6.94 W	6.94 W	6.94 W
<b>Regulatory</b>	CE, FCC, RCM, RoHS compliant		
<b>Dimensions</b>	148.75 x 65 x 69 mm (5.9" x 2.6" x 2.7")		
<b>Weight</b>	850 g (1.9 lb)		
<b>Ingress Protection</b>	IP67		
<b>Vandal Resistance</b>	IK10 for metal casing		




**Note:**

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- Memory card slot (local storage) is not supported in Argentina.





## Ultra Bullet Camera Specifications (Part 2)








		GV-UBL1301 Series		GV-UBL2401 Series		GV-UBL3401 Series	
							
<b>Camera</b>							
<b>Image Sensor</b>		1/2.5" progressive scan CMOS		1/3.2" progressive scan CMOS			
<b>Picture Elements</b>		1280 (H) x 1024 (V)		1920 (H) x 1080 (V)		2048 (H) x 1536 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.15 Lux		0.08 Lux			
	<b>B/W</b>	0.10 Lux		0.05 Lux			
	<b>IR ON</b>	0 Lux					
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000sec)					
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)					
<b>Gain Control</b>		Automatic					
<b>S/N Ratio</b>		45 dB		47 dB			
<b>WDR Pro (with WDR sensor)</b>		N/A		Yes			
<b>Dynamic Range</b>		Up to 72 dB		Up to 100 dB			
<b>Operation</b>							
<b>Video Compression</b>		H.264, MJPEG					
<b>Video Streaming</b>		Dual streams					
<b>Frame Rate</b>		30 fps at 1280 x 1024		30 fps at 1920 x 1080		20 fps at 2048 x 1536	
<b>Sensor Input</b>		1 input (Dry Contact)					
<b>Alarm Output</b>		1 digital output (200mA 5V DC)					
<b>Optical Lens</b>							
<b>Megapixel</b>		Yes					
<b>Day/Night</b>		Yes (with removable IR-cut filter)					
<b>Lens Type</b>		Fixed Lens					
<b>Focal Length</b>	GV-UBL1301-0F	2.8 mm	GV-UBL2401-0F	2.8 mm	GV-UBL3401-0F	2.8 mm	
	GV-UBL1301-1F	4 mm	GV-UBL2401-1F	4 mm	GV-UBL3401-1F	4 mm	
	GV-UBL1301-2F	8 mm	GV-UBL2401-2F	8 mm	GV-UBL3401-2F	8 mm	
	GV-UBL1301-3F	12 mm	GV-UBL2401-3F	12 mm	GV-UBL3401-3F	12 mm	
<b>Maximum Aperture</b>	GV-UBL1301-0F	F/2.0	GV-UBL2401-0F	F/2.0	GV-UBL3401-0F	F/2.0	
	GV-UBL1301-1F	F/1.5	GV-UBL2401-1F	F/1.5	GV-UBL3401-1F	F/1.5	
	GV-UBL1301-2F	F/1.6	GV-UBL2401-2F	F/1.6	GV-UBL3401-2F	F/1.6	
	GV-UBL1301-3F	F/1.6	GV-UBL2401-3F	F/1.6	GV-UBL3401-3F	F/1.6	
<b>Mount</b>		M12					
<b>Image Format</b>		1/3"					
<b>Horizontal FOV</b>	GV-UBL1301-0F	69°	GV-UBL2401-0F	79°	GV-UBL3401-0F	80°	
	GV-UBL1301-1F	49°	GV-UBL2401-1F	58°	GV-UBL3401-1F	62°	
	GV-UBL1301-2F	25°	GV-UBL2401-2F	31°	GV-UBL3401-2F	33°	
	GV-UBL1301-3F	16°	GV-UBL2401-3F	20°	GV-UBL3401-3F	21°	
<b>Operation</b>	<b>Focus</b>	Fixed					
	<b>Zoom</b>	Fixed					
	<b>Iris</b>	Fixed					
<b>IR LED Quantity</b>		4 IR LEDs					
<b>Max. IR Distance</b>		10 m (32.81 ft)					
<b>Mechanical</b>							
<b>Temperature Detector</b>		Yes					
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE					
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector (Waterproof or smaller-sized Non-Waterproof)					
	<b>Digital I/O</b>	I/O Wire					
<b>Local Storage*</b>		Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported					
<b>General</b>							
<b>Environment Temperature</b>	<b>Start-up</b>	-20 °C ~ 45 °C (-4 °F ~ 113 °F)		-20 °C ~ 45 °C (-4 °F ~ 113 °F)			
	<b>Operation</b>	-30 °C ~ 45 °C (-22 °F ~ 113 °F)					
<b>Humidity</b>		10% to 90% (no condensation)					
<b>Power Source</b>		5V DC / PoE (IEEE 802.3af)					
<b>Max. Power Consumption</b>		5.52W					
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant					
<b>Dimensions</b>		124 x 65 x 69 mm (4.9" x 2.6" x 2.7")					
<b>Weight</b>		730 g (1.6 lb)					
<b>Ingress Protection</b>		IP67					
<b>Vandal Resistance</b>		IK10 for metal casing					

**Note:**

1. Product design and specifications are subject to change without notice.
2. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
3. Memory card slot (local storage) is not supported in Argentina.



## Vandal Proof Dome Specifications (Part 1)





		(IK10+, Transparent Cover) - GV-VD120D - GV-VD121D (IK7, Transparent Cover) - GV-VD122D - GV-VD123D	(IK10+, Transparent Cover) GV-VD220D GV-VD221D (IK7, Transparent Cover) - GV-VD222D - GV-VD223D	(IK10+, Transparent Cover) - GV-VD320D - GV-VD321D (IK7, Transparent Cover) - GV-VD322D - GV-VD323D	GV-VD1500 (IK10+, Transparent Cover)	GV-VD2400 (IK10+, Transparent Cover)	GV-VD2500 (IK10+, Transparent Cover)	GV-VD3400 (IK10+, Transparent Cover)
<b>Camera</b>								
<b>Image Sensor</b>		1/2.5" progressive scan CMOS		1/3" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS	1/2.8" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS	
<b>Picture Elements</b>		1280 (H) x 1024 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	1280 (H) x 1024 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	
<b>Minimum Illumination</b>	Color	0.05 Lux	0.15 Lux		0.01 Lux	0.08 Lux	0.02 Lux	0.08 Lux
	B/W	0.03 Lux	0.10 Lux		0.01 Lux	0.05 Lux	0.02 Lux	0.05 Lux
	IR ON	0 Lux						
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)						
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)						
<b>Gain Control</b>		Automatic						
<b>S/N Ratio</b>		50 dB	45 dB		55 dB	47 dB	52 dB	47 dB
<b>WDR Pro (with WDR sensor)</b>		N/A				Yes	N/A	Yes
<b>Dynamic Range</b>		Up to 72 dB				Up to 100 dB	Up to 72 dB	Up to 100 dB
<b>Operation</b>		H.264, MJPEG						
<b>Video Compression</b>		Dual streams						
<b>Video Streaming</b>		30 fps at 1280 x 1024	30 fps at 1920 x 1080	20 fps at 2048 x 1536	30 fps at 1280 x 1024	30 fps at 1920 x 1080	20 fps at 2048 x 1536	
<b>Frame Rate</b>		G.711, AAC (optional)						
<b>Audio Compression</b>		1 Input (Dry Contact)						
<b>Sensor Input</b>		1 Digital output (200mA 5V DC)						
<b>Alarm Output</b>		Yes						
<b>Megapixel</b>		Yes (with removable IR-cut filter)						
<b>Day/Night</b>		Varifocal Lens						
<b>Lens Type</b>		3 ~ 9 mm						
<b>Focal Length</b>		F/1.3			F/1.2			
<b>Maximum Aperture</b>		Ø14 mm						
<b>Mount</b>		1/3"			1/2.7"			
<b>Image Format</b>		86° ~ 32°	82° ~ 30°	86° ~ 31°	90° ~ 32°	82° ~ 30°	103° ~ 36°	86° ~ 31°
<b>Horizontal FOV</b>		Manual (w/lock)						
<b>Operation</b>		Manual (w/lock)						
<b>Zoom</b>		DC drive						
<b>Iris</b>		10 IR LEDs						
<b>IR LED Quantity</b>		15 m (50 ft)			30 m (98.4 ft)			
<b>Max. IR Distance</b>		Yes						
<b>Mechanical</b>		2-pin terminal block, PoE						
<b>Camera</b>		Ethernet (10/100 Base-T), RJ-45 connector						
<b>Pan</b>		1 In (RCA female for microphone), 1 Out (RCA female for speaker)						
<b>Angle</b>		I/O Wire						
<b>Tilt</b>		Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported						
<b>Adjustment</b>		BNC connector (640 x 480 resolution)						
<b>Rotate</b>		2 LEDs: Power, Status						
<b>Temperature Detector</b>		-30 °C ~ 50 °C (-22 °F ~ 122 °F)						
<b>Power</b>		10% to 90% (no condensation)						
<b>Ethernet</b>		12V DC / 24V AC / PoE (IEEE 802.3af)						
<b>Audio</b>		12 W						
<b>Digital I/O</b>		CE, FCC, RCM, RoHS compliant						
<b>Local Storage*</b>		Camera Body						
<b>TV-Out</b>		ø 165 x 125 mm (6.49" x 4.92")						
<b>LED Indicator</b>		Cable Length						
<b>General</b>		1 m (3.28 ft)						
<b>Environment Temperature</b>		Cable Diameter						
<b>Humidity</b>		ø 16.7 mm (0.66")						
<b>Power Source</b>		Max. Connector Diameter						
<b>Max. Power Consumption</b>		ø 16.7 mm (0.66")						
<b>Regulatory</b>		Weight						
<b>Camera Body</b>		1.7 kg (3.75 lb)						
<b>Cable Length</b>		Ingress Protection						
<b>Cable Diameter</b>		IP67						

### Note:

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Memory card slot (local storage) is not supported in Argentina.



## Vandal Proof Dome Specifications (Part 2)






		GV-VD1530	GV-VD2430	GV-VD2530	GV-VD3430
					
<b>Camera</b>					
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS	1/2.8" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS
<b>Picture Elements</b>		1280 (H) x 1024 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.01 Lux	0.08 Lux	0.02 Lux	0.08 Lux
	<b>B/W</b>	0.01 Lux	0.05 Lux	0.02 Lux	0.05 Lux
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)			
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>		Automatic			
<b>S/N Ratio</b>		55 dB	47 dB	52 dB	47 dB
<b>WDR Pro (with WDR sensor)</b>		N/A	Yes	N/A	Yes
<b>Dynamic Range</b>		Up to 72 dB	Up to 100 dB	Up to 72 dB	Up to 100 dB
<b>Operation</b>					
<b>Video Compression</b>		H.264, MJPEG			
<b>Video Streaming</b>		Dual streams			
<b>Frame Rate</b>		30 fps at 1280 x 1024	30 fps at 1920 x 1080	30 fps at 1920 x 1080	20 fps at 2048 x 1536
<b>Audio Compression</b>		G.711, AAC (optional)			
<b>Sensor Input</b>		1 Input (Dry Contact)			
<b>Alarm Output</b>		1 Output (200mA 5V DC)			
<b>Optical Lens</b>					
<b>Megapixel</b>		Yes			
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Varifocal Lens			
<b>Focal Length</b>		3 ~ 9 mm			
<b>Maximum Aperture</b>		F/1.2			
<b>Mount</b>		Ø14 mm			
<b>Image Format</b>		1/2.7"			
<b>Horizontal FOV</b>		90° ~ 32°	82° ~ 30°	103° ~ 36°	86° ~ 31°
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)			
	<b>Zoom</b>	Manual (w/lock)			
	<b>Iris</b>	DC drive			
<b>High Power LED</b>		6 IR LEDs			
<b>Max. IR Distance</b>		30 m (98.4 ft)	20 m (65.6 ft)	25 m (82.0 ft)	20 m (65.6 ft)
<b>Mechanical</b>					
<b>Camera Angle</b>	<b>Pan</b>	-90° ~ 90°			
	<b>Tilt</b>	0° ~ 85°			
<b>Adjustment</b>	<b>Rotate</b>	0° ~ 350°			
	<b>Temperature Detector</b>	Yes			
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	1 In (3.5 mm phone jack for microphone), 1 Out (3.5 mm phone jack for speaker)			
	<b>Digital I/O</b>	3-pin terminal block, pitch 2.5 mm (0.1")			
<b>Storage*</b>	<b>Local</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10)			
	<b>Storage*</b>	*SDXC and UHS-I card types are not supported			
	<b>TV-Out</b>	BNC connector (640 x 480 resolution)			
<b>LED Indicator</b>		2 LEDs: Power, Status			
<b>General</b>					
<b>Environment Temperature</b>	<b>Start-up</b>	-20 °C ~ 50 °C (-4 °F ~ 122 °F)			
	<b>Operation</b>	-30 °C ~ 50 °C (-22 °F ~ 122 °F)			
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE 802.3at)			
<b>Max. Power Consumption</b>		15.4 W			
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant			
<b>Dimensions</b>		Ø176.5 x 118 mm (6.9" x 4.6")			
<b>Weight</b>		1.76 kg (3.88 lb)			
<b>Ingress Protection</b>		IP67			
<b>Vandal Resistance</b>		IK10+			

### Note:

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Memory card slot (local storage) is not supported in Argentina.



### Vandal Proof Dome Specifications (Part 3)



	GV-VD1540	GV-VD2440	GV-VD2540	GV-VD3440	GV-VD5340
					
<b>Camera</b>					
Image Sensor	1/3" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS	1/2.8" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS	1/2.5" progressive scan CMOS
Picture Elements	1280 (H) x 1024 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	2560 (H) x 1920 (V)
Minimum Illumination	Color	0.01 Lux	0.08 Lux	0.02 Lux	0.08 Lux
	B/W	0.01 Lux	0.05 Lux	0.02 Lux	0.05 Lux
			0 Lux		0.10 Lux
Shutter Speed	Auto, Manual (1/5 ~ 1/8000 sec)				
White Balance	Auto, Manual (2800K ~ 8500K)				
Gain Control	Automatic				
S/N Ratio	55 dB	47 dB	52 dB	47 dB	45 dB
WDR Pro (with WDR sensor)	N/A	Yes	N/A	Yes	N/A
Dynamic Range	Up to 72 dB	Up to 100 dB	Up to 72 dB	Up to 100 dB	Up to 72 dB
<b>Operation</b>					
Video Compression	H.264, MJPEG				
Video Streaming	Dual streams				
Frame Rate	30 fps at 1280 x 1024	30 fps at 1920 x 1080	30 fps at 1920 x 1080	20 fps at 2048 x 1536	10 fps at 2560 x 1920
Audio Compression	G.711, AAC (optional)				
Sensor Input	1 Input (Dry Contact)				
Alarm Output	1 Output (200mA 5V DC)				
<b>Optical Lens</b>					
Megapixel	Yes				
Day/Night	Yes (with removable IR-cut filter)				
Lens Type	Motorized Varifocal Lens				
Focal Length	3 ~ 9 mm				3.3 ~ 9 mm
Maximum Aperture	F/1.2				
Mount	Ø14 mm				
Image Format	1/2.7"				
Horizontal FOV	90° ~ 32°	82° ~ 30°	103° ~ 36°	86° ~ 31°	100° ~ 39°
Operation	Focus	Auto Focus			
	Zoom	3x Optical Zoom			
	Iris	DC drive			
High Power LED	6 IR LEDs				
Max. IR Distance	30 m (98.4 ft)	20 m (65.6 ft)	25 m (82.0 ft)	20 m (65.6 ft)	
<b>Mechanical</b>					
Camera	Pan	-90° ~ 90°			
Angle	Tilt	0° ~ 85°			
Adjustment	Rotate	0° ~ 350°			
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 phone jack for microphone), 1 Out (3.5 mm phone jack for speaker)			
	Digital I/O	3-pin terminal block, pitch 2.5 mm (0.1")			
	Local Storage*	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported			
LED Indicator	TV-Out	BNC connector (640 x 480 resolution)			
		2 LEDs: Power, Status			
<b>General</b>					
Environment Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)				
Humidity	10% to 90% (no condensation)				
Power Source	12V DC / 24V AC / PoE (IEEE 802.3at)				
Max. Power Consumption	22.48 W				
Regulatory	CE, FCC, RCM, RoHS compliant				
Dimensions	Ø176.5 x 118 mm (6.9" x 4.6")				
Weight	1.83 kg (4.03 lb)				
Ingress Protection	IP67				
Vandal Resistance	IK10+				

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Memory card slot (local storage) is not supported in Argentina.



## Vandal Proof Dome Specifications (Part 4)





		GV-VD2540-E	GV-VD5340-E
			
<b>Camera</b>			
<b>Image Sensor</b>		1/2.8" progressive scan super low lux CMOS	
<b>Picture Elements</b>		1920 (H) x 1080 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.02 Lux	
	<b>B/W</b>	0.02 Lux	
	<b>IR ON</b>	0 Lux	
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)	
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)	
<b>Gain Control</b>		Automatic	
<b>S/N Ratio</b>		52 dB	
<b>WDR Pro (with WDR sensor)</b>		N/A	
<b>Dynamic Range</b>		Up to 72 dB	
<b>Operation</b>			
<b>Video Compression</b>		H.264, MJPEG	
<b>Video Streaming</b>		Dual streams	
<b>Frame Rate</b>		30 fps at 1920 x 1080	
<b>Audio Compression</b>		G.711, AAC (optional)	
<b>Sensor Input</b>		1 Input (Dry Contact)	
<b>Alarm Output</b>		1 Output (200mA 5V DC)	
<b>Optical Lens</b>			
<b>Megapixel</b>		Yes	
<b>Day/Night</b>		Yes (with removable IR-cut filter)	
<b>Lens Type</b>		Motorized Varifocal Lens	
<b>Focal Length</b>		3 ~ 9 mm	
<b>Maximum Aperture</b>		F/1.2	
<b>Mount</b>		Ø14 mm	
<b>Image Format</b>		1/2.7"	
<b>Horizontal FOV</b>		103° ~ 36°	
<b>Operation</b>	<b>Focus</b>	Auto Focus	
	<b>Zoom</b>	3x Optical Zoom	
	<b>Iris</b>	DC drive	
<b>High Power LED</b>		6 IR LEDs	
<b>Max. IR Distance</b>		25 m (82.0 ft)	
<b>Mechanical</b>			
<b>Camera Angle</b>	<b>Pan</b>	-90° ~ 90°	
	<b>Tilt</b>	0° ~ 85°	
<b>Adjustment</b>	<b>Rotate</b>	0° ~ 350°	
	<b>Temperature Detector</b>	Yes	
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE	
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector	
	<b>Audio</b>	1 In (3.5 mm phone jack for microphone), 1 Out (3.5 mm phone jack for speaker)	
	<b>Digital I/O</b>	3-pin terminal block, pitch 2.5 mm (0.1")	
	<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported	
<b>LED Indicator</b>		2 LEDs: Power, Status	
<b>General</b>			
<b>Environment Temperature</b>		-40 °C ~ 50 °C (-40 °F ~ 122 °F)	
<b>Heat On</b>		On (0°C / 32°F), Off (1°C / 33.8°F)	
<b>Fan</b>		Constantly on	
<b>Humidity</b>		10% to 90% (no condensation)	
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE 802.3at)	
<b>Max. Power Consumption</b>		30 W	
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant	
<b>Dimensions</b>		Ø176.5 x 118 mm (6.9" x 4.6")	
<b>Weight</b>		1.83 kg (4.03 lb)	
<b>Ingress Protection</b>		IP67	
<b>Vandal Resistance</b>		IK10+	

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Memory card slot (local storage) is not supported in Argentina.



## Fixed Dome Specifications (Part 1)





		GV-FD220D	GV-FD320D	GV-FD1200	GV-FD1500
					
<b>Camera</b>					
<b>Image Sensor</b>		1/2.5" progressive scan CMOS		1/3" progressive scan low lux CMOS	1/3" progressive scan super low lux CMOS
<b>Picture Elements</b>		1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	1280 (H) x 1024 (V)	1280 (H) x 1024 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.15 Lux		0.05 Lux	0.01 Lux
	<b>B/W</b>	0.10 Lux		0.03 Lux	0.01 Lux
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)			
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>		Automatic			
<b>S/N Ratio</b>		45 dB		50 dB	55 dB
<b>WDR Pro (with WDR sensor)</b>		N/A			
<b>Dynamic Range</b>		Up to 72 dB			
<b>Operation</b>					
<b>Video Compression</b>		H.264, MJPEG			
<b>Video Streaming</b>		Dual streams			
<b>Frame Rate</b>		30 fps at 1920 x 1080	20 fps at 2048 x 1536	30 fps at 1280 x 1024	30 fps at 1280 x 1024
<b>Audio Compression</b>		G.711, AAC (optional)			
<b>Sensor Input</b>		1 Input (Dry Contact)			
<b>Alarm Output</b>		1 Digital output (200mA 5V DC)			
<b>Optical Lens</b>					
<b>Megapixel</b>		Yes			
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Varifocal Lens			
<b>Focal Length</b>		3 ~ 9 mm			
<b>Maximum Aperture</b>		F/1.3 ± 5%			F/1.2
<b>Mount</b>		Ø14 mm			
<b>Image Format</b>		1/3"			1/2.7"
<b>Horizontal FOV</b>		82° ~ 30°	86° ~ 31°	86° ~ 32°	90° ~ 32°
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)			
	<b>Zoom</b>	Manual (w/lock)			
	<b>Iris</b>	DC drive			DC drive; P-Iris (Coming)
<b>IR LED Quantity</b>		10 IR LEDs			
<b>Max. IR Distance</b>		15 m (50 ft)			30 m (98.4 ft)
<b>Mechanical</b>					
<b>Camera</b>	<b>Pan</b>	0° ~ 350°			
	<b>Angle</b>	10° ~ 90°			
	<b>Adjustment</b>	Rotate			
<b>Temperature Detector</b>		Yes			
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	1 In (microphone phone jack, 3.5mm / 0.14")			
		1 Out (Stereo phone jack, 3.5mm / 0.14")			
	<b>Digital I/O</b>	3-pin terminal block, pitch 2.5 mm			
<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported				
<b>TV-Out</b>		BNC connector (640 x 480 resolution)			
<b>LED Indicator</b>		2 LEDs: Power, Status			
<b>General</b>					
<b>Environment Temperature</b>		0 °C ~ 50 °C / 32 °F ~ 122 °F			
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE 802.3af)			
<b>Max. Power Consumption</b>		12W			
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant			
<b>Dimension</b>		Ø 155 x 110 mm (6.1" x 4.33")			
<b>Weight</b>		580 g (1.28 lb)			
<b>Vandal Resistance</b>		IK7			

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Memory card slot (local storage) is not supported in Argentina.



## Fixed Dome Specifications (Part 2)






		GV-FD2400	GV-FD2500	GV-FD3400	GV-FD5300
					
<b>Camera</b>					
<b>Image Sensor</b>		1/3.2" progressive scan CMOS	1/2.8" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS	1/2.5" progressive scan CMOS
<b>Picture Elements</b>		1920 (H) x 1080 (V)		2048 (H) x 1536 (V)	2560 (H) x 1536 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.08 Lux	0.02 Lux	0.08 Lux	0.15 Lux
	<b>B/W</b>	0.05 Lux	0.02 Lux	0.05 Lux	0.10 Lux
		0 Lux			
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)			
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>		Automatic			
<b>S/N Ratio</b>		47 dB	52 dB	47 dB	45 dB
<b>WDR Pro (with WDR sensor)</b>		Yes	N/A	Yes	N/A
<b>Dynamic Range</b>		Up to 100 dB	Up to 72 dB	Up to 100 dB	Up to 72 dB
<b>Operation</b>					
<b>Video Compression</b>		H.264, MJPEG			
<b>Video Streaming</b>		Dual streams			
<b>Frame Rate</b>		30 fps at 1920 x 1080		20 fps at 2048 x 1536	10 fps at 2560 x 1920
<b>Audio Compression</b>		G.711, AAC (optional)			
<b>Sensor Input</b>		1 Input (Dry Contact)			
<b>Alarm Output</b>		1 Digital output (200mA 5V DC)			
<b>Optical Lens</b>					
<b>Megapixel</b>		Yes			
<b>Day/Night</b>		Yes (with removable IR-cut filter)			
<b>Lens Type</b>		Varifocal Lens			
<b>Focal Length</b>		3 ~ 9 mm			4.5 ~ 10 mm
<b>Maximum Aperture</b>		F/1.2			F/1.6
<b>Mount</b>		Ø14 mm			CS Mount
<b>Image Format</b>		1/2.7"			1/2.5"
<b>Horizontal FOV</b>		82° ~ 30°	103° ~ 36°	86° ~ 31°	70° ~ 34°
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)			
	<b>Zoom</b>	Manual (w/lock)			
	<b>Iris</b>	DC drive	DC drive; P-Iris (Coming)		Manual (w/lock)
<b>IR LED Quantity</b>		10 IR LEDs			
<b>Max. IR Distance</b>		30 m (98.4 ft)			25 m (82 ft)
<b>Mechanical</b>					
<b>Camera Angle</b>	<b>Pan</b>	0° ~ 350°			
	<b>Tilt</b>	10° ~ 90°			
	<b>Rotate</b>	0° ~ 340°			
<b>Temperature Detector</b>		Yes			
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	1 In (microphone phone jack, 3.5mm / 0.14")			
		1 Out (Stereo phone jack, 3.5mm / 0.14")			
	<b>Digital I/O</b>	3-pin terminal block, pitch 2.5 mm			
<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported				
<b>TV-Out</b>	BNC connector (640 x 480 resolution)				
<b>LED Indicator</b>		2 LEDs: Power, Status			
<b>General</b>					
<b>Environment Temperature</b>		0 °C ~ 50 °C / 32 °F ~ 122 °F			
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE802.3af)			
<b>Max. Power Consumption</b>		12W			
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant			
<b>Dimension</b>		ø 155 x 110 mm (6.1" x 4.33")			
<b>Weight</b>		580 g (1.28 lb)			
<b>Vandal Resistance</b>		IK7			

### Note:

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Memory card slot (local storage) is not supported in Argentina.



### Fixed Dome Specifications (Part 3)

	GV-FD1210	GV-FD1510	GV-FD2410	GV-FD2510	GV-FD3410
					
<b>Camera</b>					
<b>Image Sensor</b>	1/3" progressive scan low lux CMOS	1/3" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS	1/2.8" progressive scan super low lux CMOS	1/3.2" progressive scan CMOS
<b>Picture Elements</b>	1280 (H) x 1024 (V)		1920 (H) x 1080 (V)		2048 (H) x 1536 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.05 Lux	0.01 Lux	0.08 Lux	0.02 Lux
	<b>B/W</b>	0.03 Lux	0.01 Lux	0.05 Lux	0.02 Lux
	<b>IR ON</b>	0 Lux			
<b>Shutter Speed</b>	Auto, Manual (1/5 ~ 1/8000 sec)				
<b>White Balance</b>	Auto, Manual (2800K ~ 8500K)				
<b>Gain Control</b>	Automatic				
<b>S/N Ratio</b>	50 dB	55 dB	47 dB	52 dB	47 dB
<b>WDR Pro (with WDR sensor)</b>	N/A		Yes	N/A	Yes
<b>Dynamic Range</b>	Up to 72 dB		Up to 100 dB	Up to 72 dB	Up to 100 dB
<b>Operation</b>					
<b>Video Compression</b>	H.264, MJPEG				
<b>Video Streaming</b>	Dual streams				
<b>Frame Rate</b>	30 fps at 1280 x 1024		30 fps at 1920 x 1080		20 fps at 2048 x 1536
<b>Audio Compression</b>	G.711, AAC (optional)				
<b>Sensor Input</b>	1 Input (Dry Contact)				
<b>Alarm Output</b>	1 Digital output (200mA 5V DC)				
<b>Optical Lens</b>					
<b>Megapixel</b>	Yes				
<b>Day/Night</b>	Yes (with removable IR-cut filter)				
<b>Lens Type</b>	Motorized Varifocal Lens				
<b>Focal Length</b>	3 ~ 9 mm				
<b>Maximum Aperture</b>	F/1.2				
<b>Mount</b>	Ø14 mm				
<b>Image Format</b>	1/2.7"				
<b>Horizontal FOV</b>	86° ~ 32°	90° ~ 32°	82° ~ 30°	103° ~ 36°	86° ~ 31°
<b>Operation</b>	<b>Focus</b>	Auto Focus			
	<b>Zoom</b>	3X Optical Zoom			
	<b>Iris</b>	DC drive	DC drive; P-Iris (Coming)	DC drive	P-Iris
<b>IR LED Quantity</b>	10 IR LEDs				
<b>Max. IR Distance</b>	15 m (50 ft)	30 m (98.4 ft)			
<b>Mechanical</b>					
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 350°			
	<b>Tilt</b>	10° ~ 90°			
	<b>Rotate</b>	0° ~ 340°			
<b>Temperature Detector</b>	Yes				
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	1 In (microphone phone jack, 3.5mm / 0.14") 1 Out (Stereo phone jack, 3.5mm / 0.14")			
	<b>Digital I/O</b>	3-pin terminal block, pitch 2.5 mm			
	<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported			
<b>TV-Out</b>	BNC connector (640 x 480 resolution)				
<b>LED Indicator</b>	2 LEDs: Power, Status				
<b>General</b>					
<b>Environment Temperature</b>	0 °C ~ 50 °C / 32 °F ~ 122 °F				
<b>Humidity</b>	10% to 90% (no condensation)				
<b>Power Source</b>	12V DC / 24V AC / PoE (IEEE 802.3af)				
<b>Max. Power Consumption</b>	12W				
<b>Regulatory</b>	CE, FCC, RCM, RoHS compliant				
<b>Dimension</b>	Ø 155 x 110 mm (6.1" x 4.33")				
<b>Weight</b>	580 g (1.28 lb)				
<b>Vandal Resistance</b>	IK7				



**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- The TV-Out function only works in 640 x 480 resolution. For TV-Out to work properly, you must set the video resolution to 1280 x 1024 or lower. If both streams are enabled, the Sub Stream must be set to 640 x 480.
- Memory card slot (local storage) is not supported in Argentina.





## Cube Camera Specifications





		GV-CB120	GV-CB220
			
<b>Camera</b>			
Image Sensor		1/2.5" progressive scan CMOS	
Picture Elements		1280 (H) x 1024 (V)	1920 (H) x 1080 (V)
Minimum Illumination	Color	0.15 Lux	
	B/W	0.10 Lux	
	IR ON	N/A	
Shutter Speed		Auto, Manual (1/5 ~ 1/8000 sec)	
White Balance		Auto, Manual (2800K ~ 8500K)	
Gain Control		Automatic	
S/N Ratio		45 dB	
Dynamic Range		Up to 72 dB	
<b>Operation</b>			
Video Compression		H.264, MJPEG	
Video Streaming		Dual streams	
Frame Rate		30 fps at 1280 x 1024	30 fps at 1920 x 1080
Audio Compression		G.711, AAC (optional)	
<b>Optical Lens</b>			
Megapixel		Yes	
Day/Night		Yes (electronic)	
Lens Type		Fixed Lens	
Focal Length		3.35 mm	
Maximum Aperture		F/2.4	
Mount		M12 mm	
Image Format		1/3"	
Horizontal FOV		67°	77°
Operation	Focus	Fixed	
	Zoom		
	Iris		
<b>Mechanical</b>			
Connectors	Power	DC Jack	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector	
	Audio	built-in microphone and speaker	
	Local Storage*	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported	
LED Indicator		2 LEDs: Status, LAN	
Wireless LAN		No	
<b>General</b>			
Environment Temperature		0 °C ~ 50 °C (32 °F ~ 122 °F)	
Humidity		10% to 90% (no condensation)	
Power Source		5V DC	
Max. Power Consumption		3.2 W	
Regulatory		CE, FCC, RCM, RoHS compliant	
Dimensions		60 x 84.8 x 39 mm (2.36" x 3.34" x 1.54")	
Weight		80 g (0.18 lb)	

**Note:**

1. Product design and specifications are subject to change without notice.
2. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
4. Be sure to use the supplied power adapter to power up the camera. To use your own power cable, make sure you look up the power source value indicated at the camera's back panel.
5. **Memory card slot (local storage) is not supported in Argentina.**



## Advanced Cube Camera Specifications




		GV-CA120	GV-CA220	GV-CAW120	GV-CAW220
					
<b>Camera</b>					
<b>Image Sensor</b>		1/2.5" progressive scan CMOS			
<b>Picture Elements</b>		1280 (H) x 1024 (V)	1920 (H) x 1080 (V)	1280 (H) x 1024 (V)	1920 (H) x 1080 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.15 Lux			
	<b>B/W</b>	0.10 Lux			
	<b>IR ON</b>	N/A			
	<b>White Illumination LED</b>	0 Lux			
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)			
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>		Automatic			
<b>S/N Ratio</b>		45 dB			
<b>Dynamic Range</b>		Up to 72 dB			
<b>Operation</b>					
<b>Video Compression</b>		H.264, MJPEG			
<b>Video Streaming</b>		Dual streams			
<b>Frame Rate</b>		30 fps at 1280 x 1024	30 fps at 1920 x 1080	30 fps at 1280 x 1024	30 fps at 1920 x 1080
<b>Audio Compression</b>		G.711, AAC (optional)			
<b>Optical Lens</b>					
<b>Megapixel</b>		Yes			
<b>Day/Night</b>		Yes (electronic)			
<b>Lens Type</b>		Fixed Lens			
<b>Focal Length</b>		3.35 mm			
<b>Maximum Aperture</b>		F/2.4			
<b>Mount</b>		M12 mm			
<b>Image Format</b>		1/3"			
<b>Horizontal FOV</b>		67°	77°	67°	77°
<b>Operation</b>	<b>Focus</b>	Fixed			
	<b>Zoom</b>	Fixed			
	<b>Iris</b>	Fixed			
<b>Mechanical</b>					
<b>Connectors</b>	<b>Power</b>	DC Jack / PoE (IEEE 802.3af Class 3, only for GV-CA120/220)			
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector			
	<b>Audio</b>	built-in microphone and speaker			
	<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported			
<b>LED Indicator</b>		4 LEDs: Status x 3, LAN/WiFi			
<b>PIR Sensor</b>		Built-in			
<b>White Illumination LED</b>		Yes			
<b>Max. PIR / White Illumination LED Distance</b>		5 m (16.4 ft)			
<b>General</b>					
<b>Environment Temperature</b>		0 °C ~ 50 °C (32 °F ~ 122 °F)			
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		5V DC and PoE		5V DC	
<b>Max. Power Consumption</b>		7 W		6 W	
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant			
<b>Dimensions (LxWxH)</b>		65.8 x 99.8 x 39 mm (2.59" x 3.92" x 1.54")			
<b>Weight</b>		100 g (0.2 lb)			

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- For GV-CAW120 / CAW220, the signal range and data throughput may vary depending on the network conditions and environmental factors.
- Memory card slot (local storage) is not supported in Argentina.



## Mini Fixed Dome Specifications (Part 1)






		GV-MFD120	GV-MFD130	GV-MFD320
				
<b>Camera</b>		1/3" progressive scan low lux CMOS		1/2.5" progressive scan CMOS
<b>Image Sensor</b>		1280 (H) x 1024 (V)		2048 (H) x 1536 (V)
<b>Picture Elements</b>		1280 (H) x 1024 (V)		2048 (H) x 1536 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.05 Lux		0.15 Lux
	<b>B/W</b>	0.03 Lux		0.10 Lux
	<b>IR ON</b>	N/A		
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)		
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)		
<b>Gain Control</b>		Automatic		
<b>S/N Ratio</b>		50 dB	45 dB	
<b>Dynamic Range</b>		Up to 72 dB		
<b>Operation</b>				
<b>Video Compression</b>		H.264, MJPEG		
<b>Video Streaming</b>		Dual streams		
<b>Frame Rate</b>		30 fps at 1280 x 1024		20 fps at 2048 x 1536
<b>Audio Compression</b>		G.711, AAC (optional)		
<b>Optical Lens</b>				
<b>Megapixel</b>		Yes		
<b>Day/Night</b>		Yes (electronic)		
<b>Lens Type</b>		Fixed Lens		
<b>Focal Length</b>		4.05 mm	2.54 mm	
<b>Maximum Aperture</b>		F/1.5	F/2.8	
<b>Mount</b>		M12, Pitch 0.5 mm		
<b>Image Format</b>		1/3"	1/2.5"	
<b>Horizontal FOV</b>		67°	85°	110°
<b>Operation</b>	<b>Focus</b>			
	<b>Zoom</b>	Fixed		
	<b>Iris</b>			
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	-45° ~ 45°		
	<b>Tilt</b>	0° ~ 90°		
<b>Temperature Detector</b>		Yes		
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE		
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector		
	<b>Audio</b>	built-in microphone		
	<b>USB</b>	N/A		
<b>Local Storage*</b>		Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported		
<b>LED Indicator</b>		4 LEDs: Link, ACT, Power, Status		
<b>General</b>				
<b>Environment Temperature</b>		0 °C ~ 50 °C (32 °F ~ 122 °F)		
<b>Humidity</b>		10% to 90% (no condensation)		
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)		
<b>Max. Power Consumption</b>		4.5 W	5.5 W	
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant		
<b>Dimensions</b>	<b>Camera Body</b>	ø 106 x 55.6 mm (4.2" x 2.2")		
	<b>Cable Length</b>	1 m (3.28 ft)		
	<b>Cable Diameter</b>	ø 8 mm (0.31")		
	<b>Max. Connector Diameter</b>	ø 28.5 mm (1.12")		
<b>Weight</b>		275 g (0.61 lb)	280 g (0.62 lb)	

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.**
- Mind the following limitations and requirements for the mini USB port:
  - The USB hard drive must be of 2.5" or 3.5", version 2.0 or above
  - The USB hard drive's storage capacity must not exceed 2TB
  - USB flash drives and USB hubs are not supported
  - External power supply is required for the USB hard drive
  - To connect a GV-WiFi Adapter, make sure it is connected before the camera is powered on.



## Mini Fixed Dome Specifications (Part 2)

		GV-MFD1501 Series		GV-MFD2401 Series		GV-MFD2501 Series		GV-MFD3401 Series		GV-MFD5301 Series			
													
<b>Camera</b>													
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS		1/3.2" progressive scan CMOS		1/2.8" progressive scan super low lux CMOS		1/3.2" progressive scan CMOS		1/2.5" progressive scan CMOS			
<b>Picture Elements</b>		1280 (H) x 1024 (V)		1920 (H) x 1080 (V)		1920 (H) x 1080 (V)		2048 (H) x 1536 (V)		2560 (H) x 1920 (V)			
<b>Minimum Illumination</b>	<b>Color</b>	0.01 Lux		0.08 Lux		0.02 Lux		0.08 Lux		0.15 Lux			
	<b>B/W</b>	0.01 Lux		0.05 Lux		0.02 Lux		0.05 Lux		0.10 Lux			
										N/A			
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)											
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)											
<b>Gain Control</b>		Automatic											
<b>S/N Ratio</b>		55 dB				52 dB				55 dB			
<b>WDR Pro (with WDR Sensor)</b>		N/A		Yes		N/A		Yes		N/A			
<b>Dynamic Range</b>		Up to 72 dB		Up to 100 dB		Up to 72 dB		Up to 100 dB		Up to 72 dB			
<b>Operation</b>													
<b>Video Compression</b>		H.264, MJPEG											
<b>Video Streaming</b>		Dual streams											
<b>Frame Rate</b>		30 fps at 1280 x 1024		30 fps at 1920 x 1080				20 fps at 2048 x 1536		10 fps at 2560 x 1920			
<b>Audio Compression</b>		G.711, AAC (optional)											
<b>Optical Lens</b>													
<b>Megapixel</b>		Yes											
<b>Day/Night</b>		Yes (electronic)											
<b>Lens Type</b>		Fixed Lens											
<b>Focal Length</b>	MFD1501-0F	2.8 mm	MFD2401-0F	2.8 mm	MFD2501-0F	2.8 mm	MFD3401-0F	2.8 mm	MFD5301-0F	2.8 mm			
	MFD1501-1F	4 mm	MFD2401-2F	8 mm	MFD2501-1F	4 mm	MFD3401-2F	8 mm	MFD5301-2F	8 mm			
	MFD1501-2F	8 mm	MFD2401-3F	12 mm	MFD2501-2F	8 mm	MFD3401-3F	12 mm	MFD5301-3F	12 mm			
	MFD1501-3F	12 mm	MFD2401-4F	2.1 mm	MFD2501-3F	12 mm	MFD3401-5F	3.8 mm	MFD5301-5F	3.8 mm			
	MFD1501-4F	2.1 mm	MFD2401-5F	3.8 mm	MFD2501-5F	3.8 mm	MFD3401-6F	2.3 mm					
MFD1501-5F	3.8 mm	MFD2501-6F			2.3 mm	MFD3401-6F	2.3 mm	MFD5301-5F	3.8 mm				
<b>Maximum Aperture</b>	MFD1501-0F	F/2.0	MFD2401-0F	F/2.0	MFD2501-0F	F/2.0	MFD3401-0F	F/2.0	MFD5301-0F	F/2.0			
	MFD1501-1F	F/1.5	MFD2401-2F	F/1.6	MFD2501-1F	F/1.5	MFD3401-2F	F/1.6	MFD5301-2F	F/1.6			
	MFD1501-2F	F/1.6	MFD2401-3F	F/1.6	MFD2501-2F	F/1.6	MFD3401-3F	F/1.6	MFD5301-3F	F/1.6			
	MFD1501-3F	F/1.6	MFD2401-4F	F/1.8	MFD2501-3F	F/1.6	MFD3401-5F	F/1.8	MFD5301-5F	F/1.8			
	MFD1501-4F	F/1.8	MFD2401-5F	F/1.8	MFD2501-5F	F/1.8	MFD3401-6F	F/2.2					
MFD1501-5F	F/1.8	MFD2501-6F			F/2.2	MFD3401-6F	F/2.2	MFD5301-5F	F/1.8				
<b>Mount</b>		M12, Pitch 0.5 mm											
<b>Image Format</b>		1/3"											
<b>Horizontal FOV</b>	MFD1501-0F	87°	MFD2401-0F	79°	MFD2501-0F	99°	MFD3401-0F	80°	MFD5301-0F	103°			
	MFD1501-1F	67°	MFD2401-2F	31°	MFD2501-1F	72°	MFD3401-2F	33°	MFD5301-2F	41°			
	MFD1501-2F	35°	MFD2401-3F	20°	MFD2501-2F	38°	MFD3401-3F	21°	MFD5301-3F	26°			
	MFD1501-3F	22°	MFD2401-4F	112°	MFD2501-3F	25°	MFD3401-5F	63°	MFD5301-5F	76°			
	MFD1501-4F	124°	MFD2401-5F	60°	MFD2501-5F	72°	MFD3401-6F	105°					
MFD1501-5F	64°	MFD2501-6F			122°	MFD3401-6F	105°	MFD5301-5F	76°				
<b>Operation</b>	<b>Focus</b>	Fixed											
	<b>Zoom</b>	Fixed											
	<b>Iris</b>	Fixed											
<b>Mechanical</b>													
<b>Camera Angle Adjustment</b>	<b>Pan</b>	-45° ~ 45°											
	<b>Tilt</b>	0° ~ 90°											
<b>Temperature Detector</b>		Yes											
<b>Connectors</b>	<b>Power</b>	PoE, 2-pin terminal block											
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector											
	<b>Audio</b>	1 In (Built-in microphone), 1 Out (RCA female for speaker)											
	<b>USB</b>	GV-WiFi adapter or USB hard drive											
	<b>Local Storage*</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported											
<b>LED Indicator</b>		4 LEDs: Link, ACT, Power, Status											
<b>General</b>													
<b>Environment Temperature</b>		0 °C ~ 50 °C (32 °F ~ 122 °F)											
<b>Humidity</b>		10% to 90% (no condensation)											
<b>Power Source</b>		DC 5V, PoE (IEEE 802.3af)											
<b>Max. Power Consumption</b>		6 W											
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant											
<b>Dimensions</b>		ø106 x 53.9 mm (4.2" x 2.1")											
<b>Weight</b>		280 g (0.62 lb)											




**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.

- Mind the following limitations and requirements for the mini USB port:
  - The USB hard drive must be of 2.5" or 3.5", version 2.0 or above
  - The USB hard drive's storage capacity must not exceed 2TB
  - USB flash drives and USB hubs are not supported
  - External power supply is required for the USB hard drive
  - To connect a GV-WiFi Adapter, make sure it is connected before the camera is powered on.



## Mini Fixed Rugged Dome Specifications (Part 1)




		GV-MDR220	GV-MDR320	GV-MDR520
				
<b>Camera</b>				
<b>Image Sensor</b>		1/2.5" progressive scan CMOS		
<b>Picture Elements</b>		1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	2560 (H) x 1920 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.15 Lux		
	<b>B/W</b>	0.10 Lux		
	<b>IR ON</b>	N/A		
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)		
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)		
<b>Gain Control</b>		Automatic		
<b>S/N Ratio</b>		45 dB		
<b>WDR Pro (with WDR sensor)</b>		N/A		
<b>Dynamic Range</b>		Up to 72 dB		
<b>Operation</b>				
<b>Video Compression</b>		H.264, MJPEG		
<b>Video Streaming</b>		Dual streams		
<b>Frame Rate</b>		30 fps at 1920 x 1080	20 fps at 2048 x 1536	10 fps at 2560 x 1920
<b>Audio Compression</b>		G.711, AAC (optional)		
<b>Optical Lens</b>				
<b>Megapixel</b>		Yes		
<b>Day/Night</b>		Yes (electronic)		
<b>Lens Type</b>		Fixed Lens		
<b>Focal Length</b>		2.54 mm		
<b>Maximum Aperture</b>		F/2.8		
<b>Mount</b>		M12, Pitch 0.5 mm		
<b>Image Format</b>		1/2.5"		
<b>Horizontal FOV</b>		101°	110°	138°
<b>Operation</b>	<b>Focus</b>	Fixed		
	<b>Zoom</b>	Fixed		
	<b>Iris</b>	Fixed		
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	-45° ~ 45°		
	<b>Tilt</b>	0° ~ 90°		
	<b>Rotate</b>	0° ~ 360°		
<b>Temperature Detector</b>		Yes		
<b>Connectors</b>	<b>Power</b>	PoE		
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector		
	<b>Audio</b>	built-in microphone		
	<b>Local Storage</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported		
<b>LED Indicator</b>		3 LEDs: Link, Power, Status		
<b>General</b>				
<b>Environment Temperature</b>		-30 °C ~ 50 °C (-22 °F ~ 122 °F)		
<b>Humidity</b>		10% to 90% (no condensation)		
<b>Power Source</b>		PoE		
<b>Max. Power Consumption</b>		3.4 W		3.6 W
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant		
<b>Dimensions</b>	<b>Camera Body</b>	ø 115 x 59.2 mm (4.5" x 2.3")		
	<b>Cable Length</b>	1.054 m (41.5")		
	<b>Cable Diameter</b>	ø 6.2 mm (0.24")		
	<b>Max. Connector Diameter</b>	ø 30 mm (1.18")		
<b>Weight</b>		568g (1.3 lb)		
<b>Ingress Protection</b>		IP67		
<b>Vandal Resistance</b>		IK10 for metal casing		

**Note:**

1. Product design and specifications are subject to change without notice.
2. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
3. **Memory card slot (local storage) is not supported in Argentina.**



## Mini Fixed Rugged Dome Specifications (Part 2)




		GV-MDR1500 Series		GV-MDR3400 Series		GV-MDR5300 Series			
									
<b>Camera</b>									
Image Sensor		1/3" progressive scan super low lux CMOS		1/3.2" progressive scan CMOS		1/2.5" progressive scan CMOS			
Picture Elements		1280 (H) x 1024 (V)		2048 (H) x 1536 (V)		2560 (H) x 1920 (V)			
Minimum Illumination	Color	0.01 Lux		0.08 Lux		0.15 Lux			
	B/W	0.01 Lux		0.05 Lux		0.10 Lux			
	IR ON			N/A					
Shutter Speed				Auto, Manual (1/5 ~ 1/8000 sec)					
White Balance				Auto, Manual (2800K ~ 8500K)					
Gain Control				Automatic					
S/N Ratio		55 dB		47 dB		45 dB			
WDR Pro (with WDR Sensor)		N/A		Yes		N/A			
Dynamic Range		Up to 72 dB		Up to 100 dB		Up to 72 dB			
<b>Operation</b>									
Video Compression				H.264, MJPEG					
Video Streaming				Dual streams					
Frame Rate		30 fps at 1280 x 1024		20 fps at 2048 x 1536		10 fps at 2560 x 1920			
Audio Compression				G.711, AAC (optional)					
<b>Optical Lens</b>									
Megapixel				Yes					
Day/Night				Yes (electronic)					
Lens Type				Fixed Lens					
Focal Length	MDR1500-1F	2.8 mm		MDR3400-1F	2.8 mm		MDR5300-1F	2.8 mm	
	MDR1500-2F	3.8 mm		MDR3400-2F	3.8 mm		MDR5300-2F	3.8 mm	
Maximum Aperture	MDR1500-1F	F/2.0		MDR3400-1F	F/2.0		MDR5300-1F	F/2.0	
	MDR1500-2F	F/1.8		MDR3400-2F	F/1.8		MDR5300-2F	F/1.8	
Mount				M12, Pitch 0.5 mm					
Image Format				1/3"					
Horizontal FOV	MDR1500-1F	88°		MDR3400-1F	85°		MDR5300-1F	104°	
	MDR1500-2F	64°		MDR3400-2F	63°		MDR5300-2F	76°	
Operation	Focus			Fixed					
	Zoom								
	Iris								
<b>Mechanical</b>									
Camera Angle Adjustment	Pan			-45° ~ 45°					
	Tilt			0° ~ 90°					
	Rotate			0° ~ 360°					
Temperature Detector				Yes					
Connectors	Power			PoE					
	Ethernet			Ethernet (10/100 Base-T), RJ-45 connector					
	Audio			built-in microphone					
	Local Storage			Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported					
LED Indicator				3 LEDs: Link, Power, Status					
<b>General</b>									
Environment Temperature				-30 °C ~ 50 °C (-22 °F ~ 122 °F)					
Humidity				10% to 90% (no condensation)					
Power Source				PoE					
Max. Power Consumption		3.47 W		4.28 W		3.81 W			
Regulatory				CE, FCC, RCM, RoHS compliant					
Dimensions	Camera Body			ø 115 x 59.2 mm (4.5" x 2.3")					
	Cable Length			1.054 m (41.5")					
	Cable Diameter			ø 6.2 mm (0.24")					
	Connector Diameter			M12: ø 14.7 mm (0.58") Waterproof: ø 27 mm (1.06") Non-waterproof (Smaller) : 16.8 x 13.8 mm (0.66" x 0.54")					
	Weight			568g (1.3 lb)					
Ingress Protection				IP67					
Vandal Resistance				IK10 for metal casing					

**Note:**

1. Product design and specifications are subject to change without notice.
2. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
3. **Memory card slot (local storage) is not supported in Argentina.**



## Target Series Specifications (Part 1)





		GV-EBX1100 Series		GV-EBL1100 Series		GV-EBL2100 Series	
							
<b>Camera</b>							
<b>Image Sensor</b>		1/3" progressive scan low lux CMOS		1/3" progressive scan low lux CMOS		1/2.8" progressive scan low lux CMOS	
<b>Picture Elements</b>		1280 (H) x 1024 (V)		1280 (H) x 1024 (V)		1920 (H) x 1080 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.05 Lux		0.05 Lux		0.07 Lux	
	<b>B/W</b>	0.03 Lux		0.03 Lux		0.04 Lux	
	<b>IR ON</b>			0 Lux			
<b>Shutter Speed</b>				Auto, Manual (1/5 ~ 1/8000 sec)			
<b>White Balance</b>				Auto, Manual (2800K ~ 8500K)			
<b>Gain Control</b>				Automatic			
<b>S/N Ratio</b>		50 dB		50 dB		48 dB	
<b>Dynamic Range</b>				Up to 72 dB			
<b>Operation</b>							
<b>Video Compression</b>				H.264, MJPEG			
<b>Video Streaming</b>				Dual streams			
<b>Frame Rate</b>		30 fps at 1280 x 1024				30 fps at 1920 x 1080	
<b>Audio Compression</b>		G.711, AAC (optional)				N/A	
<b>Optical Lens</b>							
<b>Megapixel</b>				Yes			
<b>Day/Night</b>				Yes (with removable IR-cut filter)			
<b>Lens Type</b>				Fixed			
<b>Focal Length</b>	GV-EBX1100-0F	2.8 mm	GV-EBL1100-1F	6 mm	GV-EBL2100-1F	6 mm	
	GV-EBX1100-2F	3.8 mm	GV-EBL1100-2F	3.8 mm	GV-EBL2100-2F	3.8 mm	
<b>Maximum Aperture</b>	GV-EBX1100-0F	F/2.0	GV-EBL1100-1F	F/1.8	GV-EBL2100-1F	F/1.8	
	GV-EBX1100-2F	F/1.8	GV-EBL1100-2F		GV-EBL2100-2F		
<b>Mount</b>				M12, Pitch 0.5 mm			
<b>Image Format</b>				1/2.7"			
<b>Horizontal FOV</b>	GV-EBX1100-0F	93°	GV-EBL1100-1F	44°	GV-EBL2100-1F	51°	
	GV-EBX1100-2F	64°	GV-EBL1100-2F	64°	GV-EBL2100-2F	72°	
<b>Operation</b>	<b>Focus</b>			Fixed			
	<b>Zoom</b>						
	<b>Iris</b>						
<b>IR LED Quantity</b>		8 IR LEDs		24 IR LEDs			
<b>Max. IR Distance</b>		15 m (50 ft)		30 m (98.4 ft)			
<b>Mechanical</b>							
<b>Camera Angle Adjustment</b>	<b>Pan</b>	N/A		N/A			
	<b>Tilt</b>						
<b>Connectors</b>	<b>Power</b>			2-pin terminal block, PoE			
	<b>Ethernet</b>			Ethernet (10/100 Base-T), RJ-45 cable			
	<b>Audio</b>	1 In (built-in microphone)				N/A	
<b>LED Indicator</b>		2 LEDs: Power, Status		4 LEDs: Link, ACT, Power, Status * Inside camera, not visible from outside			
<b>General</b>							
<b>Environment Temperature</b>		0°C ~ 50°C (32°F ~ 122°F)		<b>Start-up</b>	-20°C ~ 50°C (-4°F ~ 122°F)		
				<b>Operation</b>	-30°C ~ 50°C (-22°F ~ 122°F)		
<b>Humidity</b>				10% to 90% (no condensation)			
<b>Power Source</b>				12V DC / PoE (IEEE 802.3af)			
<b>Max. Power Consumption</b>		5.36 W		7.8 W			
<b>Regulatory</b>				CE, FCC, RCM, RoHS compliant			
<b>Dimensions (L X W X H)</b>		95 x 45 x 40 mm (3.7" x 1.8" x 1.6")		115 x 76 x 73 mm (4.5" x 3.0" x 2.9")			
<b>Weight</b>		120 g (0.26 lb)		547 g (1.20 lb)			
<b>Ingress Protection</b>		N/A		IP67			
<b>Vandal Resistance</b>		N/A		IK10 for metal casing			

**Note:**

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



## Target Series Specifications (Part 2)

		GV-EFD1100 Series		GV-EFD2100 Series		GV-EDR1100 Series		GV-EDR2100 Series	
									
<b>Camera</b>									
<b>Image Sensor</b>		1/3" progressive scan low lux CMOS		1/2.8" progressive scan low lux CMOS		1/3" progressive scan low lux CMOS		1/2.8" progressive scan low lux CMOS	
<b>Picture Elements</b>		1280 (H) x 1024 (V)		1920 (H) x 1080 (V)		1280 (H) x 1024 (V)		1920 (H) x 1080 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.05 Lux		0.07 Lux		0.05 Lux		0.07 Lux	
	<b>B/W</b>	0.03 Lux		0.04 Lux		0.03 Lux		0.04 Lux	
	<b>IR ON</b>	0 Lux							
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000 sec)							
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)							
<b>Gain Control</b>		Automatic							
<b>S/N Ratio</b>		50 dB		48 dB		50 dB		48 dB	
<b>Dynamic Range</b>		Up to 72 dB							
<b>Operation</b>									
<b>Video Compression</b>		H.264, MJPEG							
<b>Video Streaming</b>		Dual streams							
<b>Frame Rate</b>		30 fps at 1280 x 1024		30 fps at 1920 x 1080		30 fps at 1280 x 1024		30 fps at 1920 x 1080	
<b>Audio Compression</b>		G.711, AAC (optional)				N/A			
<b>Optical Lens</b>									
<b>Megapixel</b>		Yes							
<b>Day/Night</b>		Yes (with removable IR-cut filter)							
<b>Lens Type</b>		Fixed							
<b>Focal Length</b>	GV-EFD1100-0F	2.8 mm	GV-EFD2100-0F	2.8 mm	GV-EDR1100-0F	2.8 mm	GV-EDR2100-0F	2.8 mm	
	GV-EFD1100-2F	3.8 mm	GV-EFD2100-2F	3.8 mm	GV-EDR1100-2F	3.8 mm	GV-EDR2100-2F	3.8 mm	
<b>Maximum Aperture</b>	GV-EFD1100-0F	F/2.0	GV-EFD2100-0F	F/2.0	GV-EDR1100-0F	F/2.0	GV-EDR2100-0F	F/2.0	
	GV-EFD1100-2F	F/1.8	GV-EFD2100-2F	F/1.8	GV-EDR1100-2F	F/1.8	GV-EDR2100-2F	F/1.8	
<b>Mount</b>		M12, Pitch 0.5 mm							
<b>Image Format</b>		1/2.7"							
<b>Horizontal FOV</b>	GV-EFD1100-0F	93°	GV-EFD2100-0F	99°	GV-EDR1100-0F	93°	GV-EDR2100-0F	99°	
	GV-EFD1100-2F	64°	GV-EFD2100-2F	72°	GV-EDR1100-2F	64°	GV-EDR2100-2F	72°	
<b>Operation</b>	<b>Focus</b>	Fixed							
	<b>Zoom</b>	Fixed							
	<b>Iris</b>	Fixed							
<b>IR LED Quantity</b>		12 IR LEDs							
<b>Max. IR Distance</b>		15 m (50 ft)							
<b>Mechanical</b>									
<b>Camera Angle Adjustment</b>	<b>Pan</b>	-45° ~ 45°							
	<b>Tilt</b>	0° ~ 63°							
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE							
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 cable							
	<b>Audio</b>	1 In (built-in microphone)				N/A			
<b>LED Indicator</b>		4 LEDs: Link, ACT, Power, Status				4 LEDs: Link, ACT, Power, Status			
<b>General</b>									
<b>Environment Temperature</b>		0°C ~ 45°C (32°F ~ 113°F)				<b>Start-up</b>	-20°C ~ 50°C (-4°F ~ 122°F)		
						<b>Operation</b>	-30°C ~ 50°C (-22°F ~ 122°F)		
<b>Humidity</b>		10% to 90% (no condensation)							
<b>Power Source</b>		12V DC / PoE (IEEE 802.3af)							
<b>Max. Power Consumption</b>		5.8 W							
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant							
<b>Dimensions (L X W X H)</b>		ø 100 x 60 mm (3.9" x 2.4")				ø 114 x 62.8 mm (4.49" x 2.47")			
<b>Weight</b>		148 g (0.33 lb)				600 g (1.32 lb)			
<b>Ingress Protection</b>		N/A				IP67			
<b>Vandal Resistance</b>		N/A				IK10 for metal casing			






**Note:**

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- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).





## PT and PTZ Camera Specifications






		GV-PT130D	GV-PT220D	GV-PT320D	GV-PTZ010D-N	GV-PTZ010D-P
						
<b>Camera</b>						
<b>Image Sensor</b>		1/2.5" progressive scan CMOS			1/4" CCD image sensor	
<b>Picture Elements</b>		1280 (H) x 1024 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	704 (H) x 480 (V)	704 (H) x 576 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.15 Lux			2.5 Lux (50 IRE, F/1.8)	
	<b>B/W</b>	0.10 Lux			0.07 Lux (50 IRE, F/1.8)	
	<b>IR ON</b>	0 Lux			N/A	
<b>Shutter Speed</b>		Automatic, Manual (1/5 ~ 1/8000 sec)			Auto, Manual (1/60 ~ 1/120,000 sec) Auto, Manual (1/50 ~ 1/120,000 sec)	
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)			Auto, Manual (3200K ~ 9600K)	
<b>Gain Control</b>		Automatic				
<b>BLC</b>		Yes			Yes	
<b>Dynamic Range</b>		Up to 72 dB			N/A	
<b>Operation</b>						
<b>Video Compression</b>		H.264, MJPEG			H.264, MPEG4, MJPEG	
<b>Video Streaming</b>		Dual streams				
<b>Frame Rate</b>		30 fps at 1280 x 1024,	30 fps at 1920 x 1080	20 fps at 2048 x 1536	30 fps at 704 x 480	25 fps at 704 x 576
<b>Audio Compression</b>		G.711, AAC (optional)				
<b>Sensor Input</b>		1 Input (Dry Contact)				
<b>Alarm Output</b>		1 Digital output (200mA 5V DC)				
<b>Optical Lens</b>						
<b>Megapixel</b>		Yes			No	
<b>Day/Night</b>		Yes (with removable IR-cut filter)			Yes (electronic)	
<b>Focal Length</b>		4.0 mm			4.2 ~ 42 mm	
<b>Maximum Aperture</b>		F/1.5			F/1.8 ~ 2.9	
<b>Mount</b>		M12, Pitch 0.5 mm			No	
<b>Image Format</b>		1/2.5"			1/4"	
<b>Horizontal FOV</b>		49°	58°	62°	N/A	
<b>Operation</b>	<b>Focus</b>	Manual (w/lock)			Auto Focus	
	<b>Zoom</b>	Fixed			100X (10X Optical, 10X Digital)	
	<b>Iris</b>	Fixed			Fixed	
<b>IR LED Quantity</b>		10 IR LEDs			N/A	
<b>Max. IR Distance</b>		15 m (50 ft)			N/A	
<b>Mechanical</b>						
<b>Camera Angle</b>		-175° ~ 175°				
<b>Adjustment</b>		-45° ~ 90°				
<b>Temperature Detector</b>		Yes				
<b>Connectors</b>	<b>Power</b>	2-pin terminal block, PoE				
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector				
	<b>Audio</b>	1 In (built-in microphone or external microphone) 1 Out (Stereo phone jack, 3.5 mm / 0.14")				
	<b>Digital I/O</b>	3-pin terminal block, pitch 2.5 mm / 0.1"				
	<b>Local Storage</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported				
<b>LED Indicator</b>		2 LEDs: Power, Status				
<b>General</b>						
<b>Environment Temperature</b>		0 °C ~ 50 °C (32 °F ~ 122 °F)				
<b>Humidity</b>		10% to 90% (no condensation)				
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE 802.3af)				
<b>Max. Power Consumption</b>		12.5 W				
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant				
<b>Dimensions</b>	<b>With Base</b>	167.75 x 166.78 x 135.2 mm (6.6" x 6.7" x 5.32")				
	<b>Without Base</b>	124.55 x 122.73 x 133.3 mm (4.9" x 4.83" x 5.25")				
<b>Weight</b>		440 g (0.97 lb)			490 g (1.08 lb)	

**Note:**

1. Product design and specifications are subject to change without notice.
2. The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
3. **Memory card slot (local storage) is not supported in Argentina.**



## Fisheye Camera Specifications (Part 1)



	GV-FE420 (Indoor)	GV-FE421 (Indoor)	GV-FE520 (Indoor)	GV-FE521 (Indoor)	GV-FER521 (Outdoor)	
						
<b>Camera</b>						
Image Sensor	1/2.5" progressive scan CMOS					
Picture Elements	2048 (H) x 1944 (V)		2560 (H) x 1920 (V)			
Minimum Illumination	Color	0.15 Lux				
	B/W	0.10 Lux				
	IR ON	N/A				
Shutter Speed	Auto, Manual (1/5 ~ 1/8000sec)					
White Balance	Auto, Manual (2800K ~ 8500K)					
Gain Control	Automatic					
S/N Ratio	45 dB					
Dynamic Range	Up to 72 dB					
<b>Operation</b>						
Video Compression	H.264, MJPEG					
Video Streaming	Single Stream from H.264 or MJPEG					
Frame Rate	15 fps at 2048 x 1944		10 fps at 2560 x 1920 15 fps at 2048 x 1944			
Audio Compression	G.711, AAC (optional)					
Sensor Input	1 Input (Dry Contact)				No	
Alarm Output	1 Digital output (200mA 5V DC)				No	
<b>Optical Lens</b>						
Megapixel	Yes					
Day/Night	Yes (electronic)					
Focal Length	1.05 mm		1.6 mm			
Maximum Aperture	F/2.8		F/2			
Mount	M12, Pitch 0.5 mm / 0.02"					
Image Format	1/2"		4.7 mm (Image Circle)			
Horizontal FOV	180°					
Operation	Focus	Fixed				
	Zoom					
	Iris					
<b>Mechanical</b>						
Temperature Detector	Yes					
Connectors	Power	Terminal block (2 pin), PoE				
	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector				
	Audio	built-in microphone and speaker				
	Digital I/O	I/O Wire				
	Local Storage	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported				
<b>General</b>						
Environment Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)				-30 °C ~ 50 °C / -22 °F ~ 122 °F	
Humidity	10% to 90% (no condensation)					
Power Source	12V DC / 24V AC / PoE (IEEE 802.3af)				PoE (IEEE 802.3af)	
Max. Power Consumption	5 W					
Regulatory	CE, FCC, RCM, RoHS compliant					
Dimensions	Camera Body	Hard-Ceiling Mount	ø 160 x 47.66 mm (6.30" x 1.88")		ø 160 x 44.9 mm (6.30" x 1.77")	
		In-Ceiling Mount	ø 164 x 47.66 mm (6.46" x 1.88")		ø 164 x 44.9 mm (6.46" x 1.77")	
	Cable Length		1 m (3.28 ft)			
	Cable Diameter		ø 8 mm (0.31")			
Max. Connector Diameter		ø 28.5 (1.12")				
Weight	650 g (1.43 lb)				480 g (1.06 lb)	
Ingress Protection	No				IP66	
Vandal Resistance	No				IK10 for metal casing	

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.



## Fisheye Camera Specifications (Part 2)




		GV-FE2301 (Indoor)	GV-FE4301 (Indoor)
			
<b>Camera</b>			
<b>Image Sensor</b>		1/2.5" progressive scan CMOS	
<b>Picture Elements</b>		1440 (H) x 1376 (V)	2048 (H) x 1944 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.15 Lux	
	<b>B/W</b>	0.10 Lux	
	<b>IR ON</b>	N/A	
<b>Shutter Speed</b>		Auto, Manual (1/5 ~ 1/8000sec)	
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)	
<b>Gain Control</b>		Automatic	
<b>S/N Ratio</b>		45 dB	
<b>Dynamic Range</b>		Up to 72 dB	
<b>Operation</b>			
<b>Video Compression</b>		H.264, MJPEG	
<b>Video Streaming</b>		Single Stream from H.264 or MJPEG	
<b>Frame Rate</b>		15 fps at 1440 x 1376	15 fps at 2048 x 1944
<b>Audio Compression</b>		G.711, AAC (optional)	
<b>Sensor Input</b>		1 Input (Dry Contact)	
<b>Alarm Output</b>		1 Digital output (200mA 5V DC)	
<b>Optical Lens</b>			
<b>Megapixel</b>		Yes	
<b>Day/Night</b>		Yes (electronic)	
<b>Focal Length</b>		1.05 mm	
<b>Maximum Aperture</b>		F/2.8	
<b>Mount</b>		M12, Pitch 0.5 mm / 0.02 in	
<b>Image Format</b>		1/2"	
<b>Horizontal FOV</b>		180°	
<b>Operation</b>	<b>Focus</b>	Fixed	
	<b>Zoom</b>		
	<b>Iris</b>		
<b>Mechanical</b>			
<b>Temperature Detector</b>		Yes	
<b>Connectors</b>	<b>Power</b>	Terminal block (2 pin), PoE	
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 connector	
	<b>Audio</b>	built-in microphone and speaker	
	<b>Digital I/O</b>	I/O Wire	
	<b>Local Storage</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported	
<b>General</b>			
<b>Environment Temperature</b>		0 °C ~ 50 °C (32 °F ~ 122 °F)	
<b>Humidity</b>		10% to 90% (no condensation)	
<b>Power Source</b>		12V DC / 24V AC / PoE (IEEE 802.3af)	
<b>Max. Power Consumption</b>		5 W	
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant	
<b>Dimensions</b>	<b>Camera Body</b>	<b>Hard-Ceiling Mount</b>	ø 160 x 47.66 mm (6.30" x 1.88")
		<b>In-Ceiling Mount</b>	ø 164 x 47.66 mm (6.46" x 1.88")
	<b>Cable Length</b>		1 m (3.28 ft)
	<b>Cable Diameter</b>		ø 8 mm (0.31")
	<b>Max. Connector Diameter</b>		ø 28.5 (1.12")
<b>Weight</b>		650 g (1.43 lb)	

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.



### Fisheye Camera Specifications (Part 3)



			GV-FE2302 (Indoor)	GV-FE3402 (Indoor)	GV-FE5302 (Indoor)
			Without IR Ring		
					
<b>Camera</b>					
<b>Image Sensor</b>			1/2.5" progressive scan CMOS		
<b>Picture Elements</b>			1440 (H) x 1376 (V)		
<b>Minimum Illumination</b>	<b>Color</b>		0.15 Lux		
	<b>B/W</b>		0.10 Lux		
	<b>IR ON</b>		N/A		
<b>Shutter Speed</b>			Automatic, Manual (1/5 ~ 1/8000 sec.)		
<b>White Balance</b>			Auto, Manual (2800K ~ 8500K)		
<b>Gain Control</b>			Automatic		
<b>S/N Ratio</b>			45 dB		45 dB
<b>WDR Pro (with WDR Sensor)</b>			N/A		N/A
<b>Dynamic Range</b>			Up to 72 dB		Up to 72 dB
<b>Operation</b>					
<b>Video Compression</b>			H.264, MJPEG		
<b>Video Streaming</b>			Single Stream from H.264 or MJPEG		
<b>Frame Rate</b>			15 fps at 1440 x 1376 and 1280 x 1200	15 fps at 2048 x 1536, 1440 x 1376 and 1280 x 1200	10 fps at 2560 x 1920 15 fps at 2048 x 1944, 1440 x 1376 and 1280 x 1200
<b>Audio Compression</b>			G.711, AAC (optional)		
<b>Sensor Input</b>			N/A		
<b>Alarm Output</b>			N/A		
<b>Optical Lens</b>					
<b>Megapixel</b>			Yes		
<b>Day/Night</b>			Yes (with removable IR-cut filter)		
<b>Focal Length</b>			1.19 mm		1.32 mm
<b>Maximum Aperture</b>			F/2.0		F/2.0
<b>Mount</b>			M12, Pitch 0.5 mm		
<b>Image Format</b>			4.1 mm (image circle)		2.5"
<b>Horizontal FOV</b>			180°		
<b>Operation</b>	<b>Focus</b>		Fixed		
	<b>Iris</b>		Fixed		
	<b>Zoom</b>		Fixed		
<b>Mechanical</b>					
<b>Temperature Detector</b>			Yes		
<b>Connectors</b>	<b>Power</b>		Terminal block (2 pin), PoE		
	<b>Ethernet</b>		Ethernet (10/100 Base-T), RJ-45 Connector		
	<b>Audio</b>		1 In (built-in microphone) 1 Out (built-in speaker or stereo phone jack, 3.5 mm / 0.14")		
	<b>Local Storage</b>		Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported		
	<b>Mini USB</b>		GV-WiFi Adapter or USB hard drive		
<b>General</b>					
<b>Environment Temperature</b>			0 °C ~ 50 °C (32 °F ~ 122 °F)		
<b>Humidity</b>			10% to 90% (no condensation)		
<b>Power Source</b>			12V DC / 24V AC / PoE (IEEE 802.3af)		
<b>Max. Power Consumption</b>			8.6 W		
<b>Regulatory</b>			CE, FCC, RCM, RoHS compliant		
<b>Dimensions</b>	<b>Camera Body</b>	<b>Hard-Ceiling Mount</b>	Ø 160.25 x 48.36 mm (6.31 x 1.93")		
		<b>In-Ceiling Mount</b>	Ø 166.48 x 48.36 mm (6.55 x 1.93")		
<b>Weight</b>			410 g (0.9 lb)		
<b>Vandal Resistance</b>			IK10+ for metal casing		

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.



## Fisheye Camera Specifications (Part 4)



		GV-FE3403 (Indoor)	GV-FE5303 (Indoor)
		With IR Ring	
			
<b>Camera</b>			
<b>Image Sensor</b>		1/3.2" progressive scan CMOS	
<b>Picture Elements</b>		2048 (H) x 1536 (V)	
<b>Minimum Illumination</b>	<b>Color</b>	0.08 Lux	
	<b>B/W</b>	0.05 Lux	
	<b>IR ON</b>	0 Lux	
<b>Shutter Speed</b>		Automatic, Manual (1/5 ~ 1/8000 sec.)	
<b>White Balance</b>		Auto, Manual (2800K ~ 8500K)	
<b>Gain Control</b>		Automatic	
<b>S/N Ratio</b>		47 dB	45 dB
<b>WDR Pro (with WDR Sensor)</b>		Yes	N/A
<b>Dynamic Range</b>		Up to 100 dB	Up to 72 dB
<b>Video Compression</b>		H.264, MJPEG	
<b>Video Streaming</b>		Single Stream from H.264 or MJPEG	
<b>Frame Rate</b>		15 fps at 2048 x 1536, 1440 x 1376 and 1280 x 1200	10 fps at 2560 x 1920; 15 fps at 2048 x 1944, 1440 x 1376 and 1280 x 1200
<b>Audio Compression</b>		G.711, AAC (optional)	
<b>Sensor Input</b>		N/A	
<b>Alarm Output</b>		N/A	
<b>Megapixel</b>		Yes	
<b>Day/Night</b>		Yes (with removable IR-cut filter)	
<b>Focal Length</b>		1.19 mm	1.32 mm
<b>Maximum Aperture</b>		F/2.0	F/2.0
<b>Mount</b>		M12, Pitch 0.5 mm	
<b>Image Format</b>		4.1 mm (image circle)	2.5"
<b>Horizontal FOV</b>		180°	
<b>Operation</b>	<b>Focus</b>	Fixed	
	<b>Iris</b>		
	<b>Zoom</b>		
<b>IR LED Quantity</b>		6 IR LEDs	
<b>Max. IR Distance</b>		10 m (32.81 ft.)	
<b>Temperature Detector</b>		Yes	
<b>Connectors</b>	<b>Power</b>	Terminal block (2 pin), PoE	
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ-45 Connector	
	<b>Audio</b>	1 In (built-in microphone)	
		1 Out (built-in speaker or stereo phone jack, 3.5 mm / 0.14")	
	<b>Local Storage</b>	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported	
<b>Mini USB</b>	GV-WiFi Adapter or USB hard drive		
<b>Environment Temperature</b>		0 °C ~ 50 °C (32 °F ~ 122 °F)	
<b>Humidity</b>		10% to 90% (no condensation)	
<b>Power Source</b>	<b>w/o PoE Converter</b>	Camera: 12V DC / 24V AC / PoE (IEEE 802.3af) IR LED ring: 12V DC	
	<b>w/ PoE Converter</b>	PoE (IEEE 802.3 at)	
<b>Max. Power Consumption</b>	<b>w/o PoE Converter</b>	22 W	
	<b>w/ PoE Converter</b>	30 W	
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant	
<b>Dimensions</b>	<b>Camera Body</b>	Ø 175 x 48.36 mm (6.89" x 1.93")	
	<b>Hard-Ceiling Mount (with IR LED Ring)</b>		
<b>Weight</b>	<b>w/o PoE Converter</b>	870 g (1.92 lb)	
	<b>w/ PoE Converter</b>	1.045 kg (2.3 lb)	
<b>Vandal Resistance</b>		IK10+ for metal casing	

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.



## Fisheye Camera Specifications (Part 5)



		GV-FER3402 (Outdoor)	GV-FER5302 (Outdoor)
		Without IR Ring	
			
<b>Camera</b>			
Image Sensor		1/3.2" progressive scan CMOS	1/2.5" progressive scan CMOS
Picture Elements		2048 (H) x 1536 (V)	2560 (H) x 1920 (V)
Minimum Illumination	Color	0.08 Lux	0.15 Lux
	B/W	0.05 Lux	0.10 Lux
	IR ON	N/A	
Shutter Speed		Automatic, Manual (1/5 ~ 1/8000 sec.)	
White Balance		Auto, Manual (2800K ~ 8500K)	
Gain Control		Automatic	
S/N Ratio		47 dB	45 dB
WDR Pro (with WDR Sensor)		Yes	N/A
Dynamic Range		Up to 100 dB	Up to 72 dB
<b>Operation</b>			
Video Compression		H.264, MJPEG	
Video Streaming		Single Stream from H.264 or MJPEG	
Frame Rate		15 fps at 2048 x 1536, 1440 x 1376 and 1280 x 1200	10 fps at 2560 x 1920 15 fps at 2048 x 1944, 1440 x 1376 and 1280 x 1200
Audio Compression		G.711, AAC (optional)	
Sensor Input		N/A	
Alarm Output		N/A	
<b>Optical Lens</b>			
Megapixel		Yes	
Day/Night		Yes (with removable IR-cut filter)	
Focal Length		1.19 mm	1.32 mm
Maximum Aperture		F/2.0	F/2.0
Mount		M12, Pitch 0.5 mm	
Image Format		4.1 mm (image circle)	2.5"
Horizontal FOV		180°	
Operation	Focus		
	Iris	Fixed	
	Zoom		
IR LED Quantity		N/A	
Max. IR Distance		N/A	
<b>Mechanical</b>			
Temperature Detector		Yes	
Connectors	Power	Terminal block (2 pin), PoE	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 Connector	
	Audio	1 In (built-in microphone), 1 Out (built-in speaker)	
	Local Storage	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported	
<b>General</b>			
Environment Temperature		-30°C ~ 50°C (-22°F ~ 122°F)	
Humidity		10% to 90% (no condensation)	
Power Source		12V DC / 24V AC / PoE (IEEE 802.3af)	
Max. Power Consumption		3.6 W	
Regulatory		CE, FCC, RCM, RoHS compliant	
Dimensions	Camera Body	Hard-Ceiling Mount	Ø 160.25 x 48.36 mm (6.31" x 1.93")
		In-Ceiling Mount	Ø 166.48 x 48.36 mm (6.55" x 1.93")
	Cable Length		1 m (3.28 ft.)
	Cable Diameter		Ø 6.2 mm (0.24")
	Max. Connector Diameter		Ø 30 mm (1.18")
Weight		500 g (1.1 lb)	
Ingress Protection		IP67	
Vandal Resistance		IK10+ for metal casing	

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.



## Fisheye Camera Specifications (Part 6)



		GV-FER3403 (Outdoor)	GV-FER5303 (Outdoor)
		With IR Ring	
			
<b>Camera</b>			
Image Sensor		1/3.2" progressive scan CMOS	1/2.5" progressive scan CMOS
Picture Elements		2048 (H) x 1536 (V)	2560 (H) x 1920 (V)
Minimum Illumination	Color	0.08 Lux	0.15 Lux
	B/W	0.05 Lux	0.10 Lux
	IR ON	0 Lux	
Shutter Speed		Automatic, Manual (1/5 ~ 1/8000 sec.)	
White Balance		Auto, Manual (2800K ~ 8500K)	
Gain Control		Automatic	
S/N Ratio		47 dB	45 dB
WDR Pro (with WDR Sensor)		Yes	N/A
Dynamic Range		Up to 100 dB	Up to 72 dB
<b>Operation</b>			
Video Compression		H.264, MJPEG	
Video Streaming		Single Stream from H.264 or MJPEG	
Frame Rate		15 fps at 2048 x 1536, 1440 x 1376 and 1280 x 1200	10 fps at 2560 x 1920 15 fps at 2048 x 1944, 1440 x 1376 and 1280 x 1200
Audio Compression		G.711, AAC (optional)	
Sensor Input		N/A	
Alarm Output		N/A	
<b>Optical Lens</b>			
Megapixel		Yes	
Day/Night		Yes (with removable IR-cut filter)	
Focal Length		1.19 mm	1.32 mm
Maximum Aperture		F/2.0	F/2.0
Mount		M12, Pitch 0.5 mm	
Image Format		4.1 mm (image circle)	2.5"
Horizontal FOV		180°	
Operation	Focus	Fixed	
	Iris	Fixed	
	Zoom	Fixed	
IR LED Quantity		6 IR LEDs	
Max. IR Distance		10 m (32.81 ft.)	
<b>Mechanical</b>			
Temperature Detector		Yes	
Connectors	Power	Terminal block (2 pin), PoE	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 Connector	
	Audio	1 In (built-in microphone), 1 Out (built-in speaker)	
	Local Storage	Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported	
<b>General</b>			
Environment Temperature		-30°C ~ 50°C (-22°F ~ 122°F)	
Humidity		10% to 90% (no condensation)	
Power Source		Camera: 12V DC / 24V AC / PoE (IEEE 802.3af) IR LED ring: 12V DC	
Max. Power Consumption		22 W	
Regulatory		CE, FCC, RCM, RoHS compliant	
Dimensions	Camera Body	Hard-Ceiling Mount (with IR LED Ring) Ø 175 x 48.36 mm (6.89" x 1.93")	
	Cable Length	1 m (3.28 ft.)	
	Cable Diameter	Ø 6.2 mm (0.24")	
	Max. Connector Diameter	Ø 30 mm (1.18")	
Weight		960 g (2.12 lb)	
Ingress Protection		IP67	
Vandal Resistance		IK10+ for metal casing	

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.



## IP Speed Dome Camera Specifications (Part 1)

Camera		GV-SD010 (Indoor)			GV-SD010-S (Outdoor)		
		18X	23X	36X	18X	23X	36X
							
Image Sensor		1/4" Exview CCD	1/4" Progressive CCD	1/4" Exview CCD	1/4" Exview CCD	1/4" Progressive CCD	1/4" Exview CCD
Picture Elements		NTSC: 704 (H) x 480 (V) PAL: 704 (H) x 576 (V)					
Minimum Illumination		Color: 0.07 lux	0.1 lux	0.1 lux	0.07 lux	0.1 lux	0.1 lux
		B/W: 0.01 lux		0 lux		0.01 lux	
Shutter Speed		1 ~ 1/10000 sec	1/2 ~ 1/30000 sec 1/1.5 ~ 1/30000 sec	1 ~ 1/10000 sec	1 ~ 1/10000 sec	1/2 ~ 1/30000 sec 1/1.5 ~ 1/30000 sec	1 ~ 1/10000 sec
White Balance		Auto / Manual					
Gain Control		Auto / Manual					
S/N Ratio		> 50 dB (AGC Off)					
BLC		On / Off					
Optical Zoom		18X	23X	36X	18X	23X	36X
Digital Zoom		12X					
Video Compression		H.264, MPEG4, MJPEG					
Video Streaming		Stream 1 from H.264, MPEG4 or MJPEG Stream 2 from H.264, MPEG4 or MJPEG					
Frame Rate		30/25 fps (60/50 Hz) at 704 x 480 / 704 x 576					
Audio Compression		G.711, AAC (optional)					
Sensor Input		4					
Alarm Output		1					
Pan Travel		360° endless					
Tilt Travel		-10° ~ 190°					
Manual Speed		0.5° ~ 90°/s					
Presets		256					
Preset Accuracy		0.225°					
Preset Speed		5° ~ 400°/s					
Sequence		8					
Auto Pan		4					
Cruise		4					
Privacy Mask		24	8	24	24	8	24
Wide Dynamic Range		On / Off					
Dynamic Range		N/A					
Optical Lens							
Day/Night		Yes (with removable IR Cut Filter)					
Focal Length		4.1 ~ 73.8 mm					
Maximum Aperture		F1.4 to F3.0	F1.6 to F3.7	F1.6 to F4.5	F1.4 to F3.0	F1.6 to F3.7	F1.6 to F4.5
Operation (Focus/Zoom/Iris)		Auto/Manual					
Mechanical							
Connectors		Power: 3-pin terminal block Ethernet: Ethernet (10/100 Base-T), RJ-45 connector Audio: 1 in 1 out (stereo jack, ø 35 mm) Digital I/O: 4 in 1 out (I/O Wires) TV-Out: BNC Connector (D1 Resolution)					
General							
Environment Temperature		0 °C ~ 40 °C (32 °F ~ 104 °F)			-45 °C ~ 50 °C (-49 °F ~ -122 °F)		
Humidity		20% to 90% (no condensation)					
Power Source		24V AC ± 10%, 1.5A			24V AC ± 10%, 3A		
Max. Power Consumption		20 W			65 W (with Heater)		
Regulatory		CE, FCC, RCM, RoHS compliant					
Dimensions		Camera Body: ø 131 x 226 mm (5.2" x 8.9")		Without sunshield: ø 172 x 302.5 mm (6.7" x 11.9") With sunshield: ø 190 x 302.5 mm (97.5" x 11.9")			
Weight		1.6 kg (3.5 lb)			With sunshield: 2.6 kg (5.7 lb)		
Ingress Protection		No			IP66		





### Note:

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.





## IP Speed Dome Camera Specifications (Part 2)



Camera	GV-SD200 (Indoor)		GV-SD200-S (Outdoor)		GV-SD220 (Indoor)		GV-SD220-S (Outdoor)		
	18X		18X		20X / 30X		20X / 30X		
									
Image Sensor	1/2.8 Progressive Scan CMOS								
Picture Elements	1920 (H) x 1080 (V)				1920 (H) x 1080 (V)				
Minimum Illumination	Color	0.05 lux at F/1.6				0.05 lux at F/1.6			
	B/W	0.01 lux at F/1.6				0.005 lux at F/1.6			
Shutter Speed	1/30 ~ 1/10000 sec				1/1 ~ 1/10000 sec				
White Balance	Auto / Indoor / Outdoor / ATW / Manual				Auto / Manual				
Gain Control					Auto / Manual				
AGC Control					Auto / Manual				
S/N Ratio	N/A				> 50 dB (AGC Off)				
BLC					On / Off				
Optical Zoom	18X				20x / 30x				
Digital Zoom	10X				12x				
WDR Pro (with WDR sensor)					Yes				
Dynamic Range	N/A				Up to 100 dB				
<b>Operation</b>									
Video Compression	H.264, MJPEG								
Video Streaming	Dual Streams								
Frame Rate	30/25 fps (60/50 Hz) at 1920 x 1080				30/25 fps (60/50 Hz) at 1920 x 1080; 60/50 fps (60/50 Hz) at 1280 x 720				
Audio Compression	G.711				G.711, AAC (optional)				
Sensor Input					4				
Alarm Output	2				1				
Pan Travel	360° endless								
Tilt Travel	-10° ~ 190°				0° ~ 180°				
Proportional Pan & Tilt	On / Off (pan and tilt speed is proportional to the zoom ratio)								
Auto Flip	Digital / Mechanical / Off								
Movement Speed	0.5° ~ 90°/s (except Preset)				0.5° ~ 460°/s				
Presets	256				255				
Preset Accuracy	0.225°				0.2°				
Preset Speed	5° ~ 400°/s				0.5° ~ 460°/s				
Sequence					8				
Auto Pan	4				8				
Cruise	8				4				
Tour	16				8				
Privacy Mask	16				8				
Wide Dynamic Range	On / Off								
Calibration	Auto / Manual								
<b>Optical Lens</b>									
Megapixel	Yes								
Day/Night	Yes (with removable IR Cut Filter)								
Focal Length	4.7 ~ 84.6 mm				4.7 ~ 94.0 mm (20x); 4.3 ~ 129 mm (30x)				
Maximum Aperture	F/1.6								
Operation	Focus	Auto/Manual							
	Iris								
	Zoom								
<b>Mechanical</b>									
Temperature Detector	No				Yes				
Connectors	Power	3-pin terminal block, High power PoE(AT)		3-pin terminal block		DC Jack, PoE			
	Ethernet	Ethernet (10/100 Base-T), RJ-45 Connector							
	Audio	1 in 1 out (terminal block)				1 in 1 out (RCA female)			
	Digital I/O	4 in 2 out (12-pin terminal block)				4 in 1 out (I/O wires)			
	Local Storage	Micro SD card slot (SDHC for Class 6 card or above)				Micro SD card slot (SD/SDHC, version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported			
<b>General</b>									
Environment Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)		-40 °C ~ 50 °C (-40 °F ~ -122 °F)		-10 °C ~ 50 °C (14 °F ~ -122 °F)		-40 °C ~ 50 °C (-40 °F ~ -122 °F)		
Humidity	10% to 90% (no condensation)				20% to 90% (no condensation)				
Power Source	24V AC ± 10%, 1.5A / PoE		24V AC ± 10%, 3A		24V AC / 24V DC / PoE (IEEE 802.3at)		24V AC / 24V DC / PoE++ (60 W)		
Max. Power Consumption	20 W		65 W (with Heater)		30 W		60 W (with 30 W heater)		
Regulatory	CE, FCC, RCM, RoHS Compliant								
Dimensions	Camera Body	ø 171.7 x 228.71 mm (6.76" x 9")		With sunshield: ø 191.97 x 282.11 mm (7.55" x 11.1")		ø 172 x 221.9 mm (7" x 8.8")		ø 220 x 297.75 mm (8.7" x 11.7")	
Weight	1.62 kg (3.57 lb)		With sunshield: 2.32 kg (5.11 lb)		3.2 Kg (7.1 lb)		4.7 Kg (10.4 lb)		
Ingress Protection	-		IP66		-		IP67		
Vandal Resistance	-		-		-		IK10 for metal and polycarbonate casing		

**Note:**

- Product design and specifications are subject to change without notice.
- The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).
- Memory card slot (local storage) is not supported in Argentina.
- GV-SD200/200-S only supports dual-streaming when stream 1 is set to H.264.
- GV-SD220/220-S starts supporting PoE from November, 2014.



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


		GV-SD2300 (Outdoor)	GV-SD2301 (Outdoor)	
				
<b>Camera</b>				
<b>Image Sensor</b>		1/2.8 Progressive Scan CMOS		
<b>Picture Elements</b>		1920 (H) x 1080 (V)		
<b>Minimum Illumination</b>	<b>Color</b>	0.02 lux at F/1.6		
	<b>B/W</b>	0.001 lux at F/1.6		
<b>Shutter Speed</b>		1 ~ 1/10000 sec		
<b>White Balance</b>		Auto / Manual		
<b>Gain Control</b>		Auto / Manual		
<b>S/N Ratio</b>		50 dB (AGC Off)		
<b>BLC</b>		On / Off		
<b>Optical Zoom</b>		20x		
<b>Digital Zoom</b>		12X		
<b>Video Compression</b>		H.264, MJPEG		
<b>Video Streaming</b>		Dual streams from H.264 or MJPEG		
<b>Frame Rate</b>		30/25 fps (60/50 Hz) at 1920 x 1080 60/50 fps (60/50 Hz) at 1280 x 720		
<b>Audio Compression</b>		G.711, AAC (optional)		
<b>Sensor Input</b>		4 Input (Dry Contact)		
<b>Alarm Output</b>		1 Digital Output (200mA 5V DC)		
<b>Pan Travel</b>		360° endless		
<b>Tilt Travel</b>		0° ~ 180°	-20° ~ 200°	
<b>Manual Speed</b>		0.5° ~ 460/s		
<b>Presets</b>		255		
<b>Preset Accuracy</b>		0.2°		
<b>Preset Speed</b>		0.5° ~ 460/s		
<b>Sequence</b>	<b>Max Number</b>	8		
	<b>Max Presets Allowed</b>	16		
<b>Auto Pan</b>		8		
<b>Cruise</b>		4		
<b>Privacy Mask</b>		8		
<b>Wide Dynamic Range</b>		On / Off		
<b>Dynamic Range</b>		Up to 72dB		
<b>Optical Lens</b>				
<b>Day/Night</b>		Yes (with removable IR Cut Filter)		
<b>Focal Length</b>		4.7 ~ 94 mm		
<b>Maximum Aperture</b>		F / 1.6		
<b>Operation</b>	<b>Focus</b>	Auto/Manual		
	<b>Zoom</b>	20x		
	<b>Iris</b>	Auto/Manual		
<b>Mechanical</b>				
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE		
	<b>Ethernet</b>	10/100 Base-T, RJ-45 connector		
	<b>Audio</b>		1 in (RCA female for microphone)	
			1 out (RCA female for speaker)	
	<b>Digital I/O</b>	I/O Wires		
<b>Local Storage</b>	Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported	SD card slot (SD/SDHC, SD version 2.0 only, Class 10) *SDXC and UHS-I card types are not supported		
<b>General</b>				
<b>Environment Temperature</b>		-40 °C ~ 50 °C (-40 °F ~ 122 °F)	-40 °C ~ 70 °C (-40 °F ~ 158 °F)	
<b>Humidity</b>		20% to 90% (non-condensing)		
<b>Power Source</b>		24V AC ± 10%, 3A / 24V DC ± 10%, 3.75A / High PoE (PoE++)		
<b>Max. Power Consumption</b>		60 W (with 30 W Heater)	50 W (with 30 W Heater)	
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant		
<b>Dimensions</b>	<b>Camera Body</b>	Ø 220 x 297.75 mm (8.66" x 11.72")	Ø 211.63 x 232 mm (8.332" x 9.13")	
<b>Weight (With rack)</b>		4.7 kg (10.4 lb)	3.1 kg (6.82 lb)	
<b>Ingress Protection</b>		IP67		
<b>Vandal Resistance</b>		IK10 for metal and polycarbonate casting		

**Note:**

1. The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).
2. SDXC and UHS-I card types are not supported.
3. No memory card slot (local storage function) is not supported in Argentina.



## Pinhole Camera Specifications

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

### Note:

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