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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/1.3		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 (IEEE802.3af)										
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-BX1200 Series		GV-BX1300 Series		GV-BX2400 Series		GV-BX3400 Series							
		GV-BX1200-0F ~2F	GV-BX1200-3V	GV-BX1300-0F ~2F	GV-BX1300-3V	GV-BX2400-0F ~2F GV-BX2400-8F	GV-BX2400-3V~4V	GV-BX3400-0F ~2F GV-BX3400-8F	GV-BX3400-4V~5V						
		Fixed Lens	Varifocal Lens	Fixed Lens	Varifocal Lens	Fixed Lens	Varifocal Lens	Fixed Lens	Varifocal Lens						
															
<b>Camera</b>															
<b>Image Sensor</b>		1/3" progressive scan low lux CMOS		1/2.5" progressive scan CMOS		1/3.2" progressive scan CMOS									
<b>Picture Elements</b>		1280 (H) x 1024 (V)		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		0.08 Lux									
	<b>B/W</b>	0.03 Lux		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>		50 dB		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>	BX1200-0F	4 mm	2.8 ~ 12 mm	BX1300-0F	4 mm	2.8 ~ 12 mm	BX2400-0F	4 mm	BX2400-3V	2.8 ~ 12 mm	BX3400-0F	4 mm	BX3400-4V	3 ~ 10.5 mm	
	BX1200-1F	8 mm		BX1300-1F	8 mm		BX2400-1F	8 mm	BX2400-4V	3 ~ 10.5 mm	BX3400-1F	8 mm	BX3400-5V	2.8 ~ 6 mm	
	BX1200-2F	12 mm		BX1300-2F	12 mm		BX2400-2 F	12 mm			BX2400-8F	2.8 mm			BX3400-2F
<b>Maximum Aperture</b>	BX1200-0F	F/1.5	F/1.4	BX1300-0F	F/1.5	F/1.4	BX2400-0F	F/1.5	BX2400-3V	F/1.4	BX3400-0F	F/1.5	BX3400-4V	F/1.4	
	BX1200-1F	F/1.6		BX1300-1F	F/1.6		BX2400-1F	F/1.6	BX2400-4V		F/1.8	BX3400-1F	F/1.6	BX3400-5V	F/1.3
	BX1200-2F			BX1300-2F			F/1.6	BX2400-2F	F/1.8			BX2400-8F	F/1.8	BX3400-2F	F/1.8
<b>Mount</b>															
CS Mount															
<b>Image Format</b>	BX1200-0F	1/3"	1/2.7"	BX1300-0F	1/3"	1/2.7"	BX2400-0F	1/3"	BX2400-3V	1/2.7"	BX3400-0F	1/3"	BX3400-4V	1/2.7"	
	BX1200-1F	1/2.5"		BX1300-1F	1/2.5"		BX2400-1F	1/2.5"	BX2400-4V	1/2.7"	BX3400-1F	1/2.5"	BX3400-5V	1/3"	
	BX1200-2F			BX1300-2F	1/2.5"		BX2400-2F		BX2400-8F	BX3400-2F	BX3400-8F				
<b>Horizontal FOV</b>	BX1200-0F	63°	87° ~ 31°	BX1300-0F	49°	64° ~ 23°	BX2400-0F	58°	BX2400-3V	77° ~ 28°	BX3400-0F	61°	BX3400-4V	78° ~ 28°	
	BX1200-1F	36°		BX1300-1F	26°		BX2400-1F	32°	BX2400-4V	73° ~ 27°	BX3400-1F	35°	BX3400-5V	94° ~ 45°	
	BX1200-2F	23°		BX1300-2F	17°		BX2400-2F	21°	BX2400-8F	83°	BX3400-2F	23°	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)						
	<b>Iris</b>	Fixed	DC drive	Fixed	DC drive	Fixed	DC drive	Fixed	DC drive						
<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						
	<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 (IEEE802.3af Class 3)													
<b>Max. Power Consumption</b>		9.5 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 640x 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 3)




	GV-BX1500 Series				GV-BX2500 Series				GV-BX5300 Series				
	GV-BX1500-0F ~ 2F		GV-BX1500-3V		GV-BX2500-0F ~ 2F		GV-BX2500-3V		GV-BX5300-8F		GV-BX5300-6V		
	GV-BX1500-8F		Varifocal Lens		GV-BX2500-8F		Varifocal Lens		Fixed Lens		Varifocal Lens		
Fixed Lens		Varifocal Lens		Fixed Lens		Varifocal Lens		Fixed Lens		Varifocal Lens			
													
<b>Camera</b>													
<b>Image Sensor</b>		1/3" progressive scan super low lux CMOS				1/2.8" progressive scan super low lux CMOS				1/2.5" progressive scan CMOS			
<b>Picture Elements</b>		1280 (H) x 1024 (V)				1920 (H) x 1080 (V)				2560 (H) x 1920 (V)			
<b>Minimum Illumination</b>	<b>Color</b>	0.01 Lux				0.02 Lux				0.15 Lux			
	<b>B/W</b>	0.01 Lux				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>		55 dB				52 dB				45 dB			
<b>WDR Pro (with WDR Sensor)</b>		N/A				N/A				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 1280 x 1024				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>		Fixed		Varifocal Lens		Fixed		Varifocal Lens		Fixed		Varifocal Lens	
<b>Focal Length</b>	BX1500-0F	4 mm		2.8 ~ 12 mm	BX2500-0F	4 mm		2.8 ~ 12 mm	2.8 mm	4.5 ~ 10 mm			
	BX1500-1F	8 mm			BX2500-1F	8 mm							
	BX1500-2F	12 mm			BX2500-2F	12 mm							
	BX1500-8F	2.8 mm			BX2500-8F	2.8 mm							
<b>Maximum Aperture</b>	BX1500-0F	F/1.5		F/1.4	BX2500-0F	F/1.5		F/1.4	F/1.8	F/1.6			
	BX1500-1F	F/1.6			BX2500-1F	F/1.6							
	BX1500-2F	F/1.6			BX2500-2F	F/1.6							
	BX1500-8F	F/1.8			BX2500-8F	F/1.8							
<b>Mount</b>						CS Mount							
<b>Image Format</b>	BX1500-0F	1/3"		1/2.7"	BX2500-0F	1/3"		1/2.7"	1/2.5"	1/2"			
	BX1500-1F				BX2500-1F								
	BX1500-2F	1/2.5"			BX2500-2F	1/2.5"							
	BX1500-8F				BX2500-8F								
<b>Horizontal FOV</b>	BX1500-0F	63°		86° ~ 31°	BX2500-0F	72°		105° ~ 36°	112°	70° ~ 34°			
	BX1500-1F	36°			BX2500-1F	40°							
	BX1500-2F	23°			BX2500-2F	25°							
	BX1500-8F	90°			BX2500-8F	107°							
<b>Operation</b>	<b>Focus</b>					Manual w/lock							
	<b>Zoom</b>	Fixed		Manual (w/lock)		Fixed		Manual (w/lock)		Fixed		Manual (w/lock)	
	<b>Iris</b>	Fixed		DC drive		Fixed		DC drive		Fixed		Manual (w/lock)	
<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), 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		Not functional	
	<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 (IEEE802.3af Class 3)							
<b>Max. Power Consumption</b>		9.5 W				7.99 W				9.5 W			
<b>Regulatory</b>						CE, FCC, RCM, RoHS compliant							
<b>Dimensions (L X W X H) (Without lens)</b>						75.5 x 75 x 54 mm (2.97" x 2.95" x 2.13")							
<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 640x 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.



## Ultra Box Camera Specifications





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

- 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.



## IR Arctic Box Camera Specifications (Part 2)

		GV-BX1500-E	GV-BX2400-E	GV-BX3400-E	GV-BX5300-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)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	2560 (H) x 1920 (V)
<b>Minimum Illumination</b>	Color	0.01 Lux		0.08 Lux	0.15 Lux
	B/W	0.01 Lux		0.05 Lux	0.10 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		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	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>		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°	73° ~ 27°	78° ~ 28°	70° ~ 34°
<b>Operation</b>	Focus	Manual (w/lock)			
	Zoom	Manual (w/lock)			
	Iris	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 Angle Adjustment</b>	Pan	0° ~ 330°			
	Tilt	0° ~ 90°			
	Rotate	No			
<b>Temperature Detector</b>		Yes			
<b>Power</b>		PoE			
<b>Connectors</b>	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector			
	Audio	1 In (external microphone), 1 Out (Stereo phone jack, 3.5 mm / 0.14")			
	Auto Iris	DC drive			Not functional
	TV-Out	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	23 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.





## 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 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>		-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>		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:**

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## Bullet Camera Specifications (Part 2)







		GV-BL1200	GV-BL1300	GV-BL1500	GV-BL2400	GV-BL2500	GV-BL3400
							
<b>Camera</b>							
<b>Image Sensor</b>		1/3" progressive scan low lux CMOS	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)
<b>Minimum Illumination</b>	<b>Color</b>	0.05 Lux	0.15 Lux	0.01 Lux	0.08 Lux	0.02 Lux	0.08 Lux
	<b>B/W</b>	0.03 Lux	0.10 Lux	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>		50 dB	45 dB	55 dB	47 dB	52 dB	47 dB
<b>WDR Pro (with WDR sensor)</b>		N/A		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>		86° ~ 32°	60° ~ 23°	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>IR LED Quantity</b>		16 IR LEDs					
<b>Max. IR Distance</b>		40 m (131 ft)		70 m (230 ft)		50 m (164 ft)	
<b>Mechanical</b>							
<b>Camera Angle</b>	<b>Pan</b>	0° ~ 360°					
	<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					
	<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 (IEEE802.3af)					
<b>Max. Power Consumption</b>		6.72 W	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>		1.35 kg (2.98 lb)	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:**

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## Bullet Camera Specifications (Part 3)



		GV-BL1210	GV-BL1510 (Coming)	GV-BL2410	GV-BL2510	GV-BL3410	GV-BL5310
							
<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	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	0.01 Lux	0.08 Lux	0.02 Lux	0.08 Lux	0.15 Lux
	<b>B/W</b>	0.03 Lux	0.01 Lux	0.05 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>		50 dB	55 dB	47 dB	52 dB	47 dB	45 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>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°	90° ~ 32°	82° ~ 30°	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>	DC drive					
<b>IR LED Quantity</b>		16 IR LEDs					
<b>Max. IR Distance</b>		40 m (131 ft)	70 m (230 ft)	50 m (164 ft)		40 m (131 ft)	
<b>Mechanical</b>							
<b>Camera Angle</b>	<b>Pan</b>	0° ~ 360°					
	<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					
	<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 (IEEE802.3af)					
<b>Max. Power Consumption</b>		11.52 W	13.8 W	11.52 W	13.4 W	12.48 W	
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant					
<b>Dimensions</b>	<b>Camera Body</b>	289.02 x 87.75 x 148.95 mm (11.4" 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)					
<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 4)






		GV-BL2510-E	GV-BL5310-E
			
<b>Camera</b>			
Image Sensor		1/2.8" progressive scan super low lux CMOS	1/2.5" progressive scan CMOS
Picture Elements		1920 (H) x 1080 (V)	2560 (H) x 1920 (V)
Minimum Illumination	Color	0.02 Lux	0.15 Lux
	B/W	0.02 Lux	0.10 Lux
	IR ON	0 Lux	
Shutter Speed		Auto, Manual (1/5 ~ 1/8000sec)	
White Balance		Auto, Manual (2800K ~ 8500K)	
Gain Control		Automatic	
S/N Ratio		52 dB	45 dB
WDR Pro (with WDR Sensor)		N/A	
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	10 fps at 2560 x 1920
Audio Compression		G.711, AAC (optional)	
Audio Support		Two-Way Audio	
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	4.5 ~ 9 mm
Maximum Aperture		F/1.2	
Mount		Ø14 mm	
Image Format		1/2.7"	
Horizontal FOV		103° ~ 36°	70° ~ 39°
Operation	Focus	Auto Focus	
	Zoom	3X Optical Zoom	2X Optical Zoom
	Iris	P-Iris	
IR LED Quantity		16 IR LEDs	
Max. IR Distance		50 m (164 ft)	40 m (131 ft)
<b>Mechanical</b>			
Camera Angle Adjustment	Pan	0° ~ 360°	
	Tilt	90° ~ 180°	
	Rotate	0° ~ 360°	
Temperature Detector		Yes	
Connectors	Power	2-pin terminal block	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable	
	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>			
Environment Temperature		-40 °C ~ 50 °C (-40 °F ~ 122 °F)	
Humidity		10% to 90% (no condensation)	
Power Source		12V DC / 24V AC	
Max. Power Consumption		34 W	33.2 W
Regulatory		CE, FCC, RCM, RoHS compliant	
Dimensions	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")	
Weight		1.4 kg (3.08 lb)	
Ingress Protection		IP67	
Vandal Resistance		IK10 for metal casing	
Heater		On: -40 °C ~ 30 °C (-40 °F ~ 86 °F) ; Off: 31 °C (87.8 °F)	
Fan		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.



## Ultra Bullet Camera Specifications (Part 1)




	GV-UBL 1211	GV-UBL1511	GV-UBL2411	GV-UBL2511	GV-UBL3411
					
<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>	Color	0.05 Lux	0.01 Lux	0.08 Lux	0.02 Lux
	B/W	0.03 Lux	0.01 Lux	0.05 Lux	0.02 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	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>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>	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				
<b>Max. Power Consumption</b>	6.94 W	9.65 W	6.94 W	9.95 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:**

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 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					
<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:**

- 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.



## 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>									
<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 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/1.3			F/1.2				
<b>Mount</b>		Ø14 mm							
<b>Image Format</b>		1/3"							
<b>Horizontal FOV</b>		86° ~ 32°	82° ~ 30°	86° ~ 31°	90° ~ 32°	82° ~ 30°	103° ~ 36°	86° ~ 31°	
<b>Operation</b>	Focus	Manual (w/lock)							
	Zoom	Manual (w/lock)							
	Iris	DC drive							
<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>	Pan	0° ~ 350°							
	Tilt	10° ~ 90°							
	Rotate	0° ~ 340°							
<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>TV-Out</b>		BNC connector (640 x 480 resolution)							
<b>LED Indicator</b>		2 LEDs: 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>		12V DC / 24V AC / PoE (IEEE802.3af)							
<b>Max. Power Consumption</b>		12 W							
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant							
<b>Dimensions</b>	Camera Body	Ø 165 x 125 mm (6.49" x 4.92")							
	Cable Length	1 m (3.28 ft)							
	Cable Diameter	Ø 16.7 mm (0.66")							
	Max. Connector Diameter	Ø 16.7 mm (0.66")							
	Weight	1.7 kg (3.75 lb)							
<b>Ingress Protection</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>						
<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>	Color	0.01 Lux	0.08 Lux	0.02 Lux	0.08 Lux	0.15 Lux
	B/W	0.01 Lux	0.05 Lux	0.02 Lux	0.05 Lux	0.10 Lux
<b>Shutter Speed</b>	0 Lux					
<b>White Balance</b>	Auto, Manual (1/5 ~ 1/8000 sec)					
<b>Gain Control</b>	Auto, Manual (2800K ~ 8500K)					
<b>S/N Ratio</b>	Automatic					
	55 dB	47 dB	52 dB	47 dB	45 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	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 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				3.3 ~ 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°	100° ~ 39°	
<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>	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</b>	<b>Pan</b>	-90° ~ 90°				
<b>Angle</b>	<b>Tilt</b>	0° ~ 85°				
<b>Adjustment</b>	<b>Rotate</b>	0° ~ 350°				
<b>Temperature</b>	<b>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>TV-Out</b>	BNC connector (640 x 480 resolution)				
<b>LED Indicator</b>	2 LEDs: Power, Status					
<b>General</b>						
<b>Environment Temperature</b>	-20 °C ~ 50 °C (-4 °F ~ 122 °F)					
<b>Humidity</b>	10% to 90% (no condensation)					
<b>Power Source</b>	12V DC / 24V AC / PoE (IEEE 802.3at)					
<b>Max. Power Consumption</b>	22.48 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.



## 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-FD120D	GV-FD220D	GV-FD320D	GV-FD1200	GV-FD1500
					
<b>Camera</b>					
<b>Image Sensor</b>	1/3" progressive scan low lux CMOS	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>	1280 (H) x 1024 (V)	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
	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		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 1280 x 1024	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>	86° ~ 32°	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			
<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>	<b>Tilt</b>	10° ~ 90°			
<b>Adjustment</b>	<b>Rotate</b>	0° ~ 340°			
<b>Temperature</b>	<b>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 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			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	0.08 Lux
	<b>B/W</b>	0.03 Lux	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>	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				
<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 (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.



## Cube Camera Specifications





		GV-CB120	GV-CB220	GV-CBW120	GV-CBW220
					
<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>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>				
	<b>Iris</b>				
<b>Mechanical</b>					
<b>Connectors</b>	<b>Power</b>	DC Jack			
	<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>		2 LEDs: Status, LAN			
<b>Wireless LAN</b>		No			IEEE 802.11 b/g/n
<b>General</b>					
<b>Environment Temperature</b>		0 °C ~ 50 °C (32 °F ~ 122 °F)		0 °C ~ 40 °C (32 °F ~ 104 °F)	
<b>Humidity</b>		10% to 90% (no condensation)			
<b>Power Source</b>		5V DC			
<b>Max. Power Consumption</b>		3.2 W			
<b>Regulatory</b>		CE, FCC, RCM, RoHS compliant			
<b>Dimensions</b>		60 x 84.8 x 39 mm (2.36" x 3.34" x 1.54")			
<b>Weight</b>		80 g (0.18 lb)		70 g (0.15 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-CBW120 / CBW220, the signal range and data throughput may vary depending on the network conditions and environmental factors.
- 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.
- 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-MFD220	GV-MFD320	GV-MFD520
						
<b>Camera</b>						
Image Sensor		1/3" progressive scan low lux CMOS		1/2.5" progressive scan CMOS		
Picture Elements		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		0.15 Lux		
	B/W	0.03 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		50 dB		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	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		4.05 mm		2.54 mm		
Maximum Aperture		F/1.5		F/2.8		
Mount		M12, Pitch 0.5 mm				
Image Format		1/3"		1/2.5"		
Horizontal FOV		67°	85°	101°	110°	138°
Operation	Focus	Fixed				
	Zoom					
	Iris					
<b>Mechanical</b>						
Camera Angle Adjustment	Pan	-45° ~ 45°				
	Tilt	0° ~ 90°				
Temperature Detector		Yes				
Connectors	Power	2-pin terminal block, PoE				
	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector				
	Audio	built-in microphone				
	USB	N/A				
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		4 LEDs: Link, ACT, 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 (IEEE802.3af)				
Max. Power Consumption		4.5 W		5.5 W		6 W
Regulatory		CE, FCC, RCM, RoHS compliant				
Dimensions	Camera Body	ø 106 x 55.6 mm (4.2" x 2.2")				
	Cable Length	1 m (3.28 ft)				
	Cable Diameter	ø 8 mm (0.31")				
	Max. Connector Diameter	ø 28.5 mm (1.12")				
Weight		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)				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	MFD2401-1F	4 mm	MFD2501-1F	4 mm	MFD3401-1F	4 mm	MFD5301-1F	4 mm	
	MFD1501-2F	8 mm	MFD2401-2F	8 mm	MFD2501-2F	8 mm	MFD3401-2F	8 mm	MFD5301-2F	8 mm	
	MFD1501-3F	12 mm	MFD2401-3F	12 mm	MFD2501-3F	12 mm	MFD3401-3F	12 mm	MFD5301-3F	12 mm	
	MFD1501-4F	2.1 mm	MFD2401-4F	2.1 mm	MFD2501-4F	2.1 mm	MFD3401-4F	2.1 mm	MFD5301-4F	2.1 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	MFD2401-1F	F/1.5	MFD2501-1F	F/1.5	MFD3401-1F	F/1.5	MFD5301-1F	F/1.5	
	MFD1501-2F	F/1.6	MFD2401-2F	F/1.6	MFD2501-2F	F/1.6	MFD3401-2F	F/1.6	MFD5301-2F	F/1.6	
	MFD1501-3F		MFD2401-3F		MFD2501-3F		MFD3401-3F		MFD5301-3F		
	MFD1501-4F	F/1.8	MFD2401-4F	F/1.8	MFD2501-4F	F/1.8	MFD3401-4F	F/1.8	MFD5301-4F	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°	MFD2401-1F	58°	MFD2501-1F	72°	MFD3401-1F	62°	MFD5301-1F	84°	
	MFD1501-2F	35°	MFD2401-2F	31°	MFD2501-2F	38°	MFD3401-2F	33°	MFD5301-2F	41°	
	MFD1501-3F	22°	MFD2401-3F	20°	MFD2501-3F	25°	MFD3401-3F	21°	MFD5301-3F	26°	
	MFD1501-4F	124°	MFD2401-4F	112°	MFD2501-4F	150°	MFD3401-4F	120°	MFD5301-4F	120°	
<b>Operation</b>	<b>Focus</b>					Fixed					
	<b>Zoom</b>										
	<b>Iris</b>										
<b>Mechanical</b>											
<b>Camera Angle</b>	<b>Pan</b>					-45° ~ 45°					
<b>Adjustment</b>	<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 (IEEE802.3af)					
<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-MDR120	GV-MDR220	GV-MDR320	GV-MDR520
					
<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)	
<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>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 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 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>		70°		110°	
<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 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:**

- 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.



## Mini Fixed Rugged Dome Specifications (Part 2)




		GV-MDR1500 Series		GV-MDR2400 Series		GV-MDR2500 Series		GV-MDR3400 Series		GV-MDR5300 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		47 dB		52 dB		47 dB		45 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		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>	MDR1500-0F	2.1 mm	MDR2400-0F	2.1 mm	MDR2500-0F	2.1 mm	MDR3400-0F	2.1 mm	MDR5300-1F	2.8 mm	
	MDR1500-1F	2.8 mm	MDR2400-1F	2.8 mm	MDR2500-1F	2.8 mm	MDR3400-1F	2.8 mm	MDR5300-2F	3.8 mm	
	MDR1500-2F	3.8 mm	MDR2400-2F	3.8 mm	MDR2500-2F	3.8 mm	MDR3400-2F	3.8 mm	MDR5300-3F	8 mm	
	MDR1500-3F	8 mm	MDR2400-3F	8 mm	MDR2500-3F	8 mm	MDR3400-3F	8 mm	MDR5300-4F	12 mm	
	MDR1500-4F	12 mm	MDR2400-4F	12 mm	MDR2500-4F	12 mm	MDR3400-4F	12 mm	MDR5300-1F	F/2.0	
<b>Maximum Aperture</b>	MDR1500-0F	F/1.8	MDR2400-0F	F/1.8	MDR2500-0F	F/1.8	MDR3400-0F	F/1.8	MDR5300-1F	F/2.0	
	MDR1500-1F	F/2.0	MDR2400-1F	F/2.0	MDR2500-1F	F/2.0	MDR3400-1F	F/2.0	MDR5300-2F	F/1.8	
	MDR1500-2F	F/1.8	MDR2400-2F	F/1.8	MDR2500-2F	F/1.8	MDR3400-2F	F/1.8	MDR5300-3F	F/1.6	
	MDR1500-3F	F/1.6	MDR2400-3F	F/1.6	MDR2500-3F	F/1.6	MDR3400-3F	F/1.6	MDR5300-4F	F/1.6	
	MDR1500-4F	F/1.6	MDR2400-4F	F/1.6	MDR2500-4F	F/1.6	MDR3400-4F	F/1.6	MDR5300-4F	F/1.6	
<b>Mount</b>		M12, Pitch 0.5 mm									
<b>Image Format</b>		1/3"									
<b>Horizontal FOV</b>	MDR1500-0F	126°	MDR2400-0F	113°	MDR2500-0F	135°	MDR3400-0F	121°	MDR5300-1F	104°	
	MDR1500-1F	88°	MDR2400-1F	80°	MDR2500-1F	98°	MDR3400-1F	85°	MDR5300-2F	76°	
	MDR1500-2F	64°	MDR2400-2F	60°	MDR2500-2F	72°	MDR3400-2F	63°	MDR5300-3F	41°	
	MDR1500-3F	34°	MDR2400-3F	30°	MDR2500-3F	38°	MDR3400-3F	32°	MDR5300-4F	27°	
	MDR1500-4F	22°	MDR2400-4F	20°	MDR2500-4F	25°	MDR3400-4F	21°	MDR5300-4F	27°	
<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>		3.47 W		4.28 W		4.23 W		4.28 W		3.81 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>Connector Diameter</b>	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")									
<b>Weight</b>		568g (1.3 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.



## 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:**

- 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).



## 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			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 (IEEE802.3af)				
<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:

- 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 1)



		GV-FE421 (Indoor)	GV-FE521 (Indoor)	GV-FER521 (Outdoor)	
					
<b>Camera</b>					
<b>Image Sensor</b>		1/2.5" progressive scan CMOS			
<b>Picture Elements</b>		2048 (H) x 1944 (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 ~ 1/8000sec)			
<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 2048 x 1944	10 fps at 2560 x 1920 15 fps at 2048 x 1944		
<b>Audio Compression</b>		G.711, AAC (optional)			
<b>Sensor Input</b>		1 Input (Dry Contact)		No	
<b>Alarm Output</b>		1 Digital output (200mA 5V DC)		No	
<b>Optical Lens</b>					
<b>Megapixel</b>		Yes			
<b>Day/Night</b>		Yes (electronic)			
<b>Focal Length</b>		1.05 mm	1.6 mm		
<b>Maximum Aperture</b>		F/2.8	F/2		
<b>Mount</b>		M12, Pitch 0.5 mm / 0.02"			
<b>Image Format</b>		1/2"	4.7 mm (Image Circle)		
<b>Horizontal FOV</b>		180°			
<b>Operation</b>	<b>Focus</b>	Fixed			
	<b>Zoom</b>	Fixed			
	<b>Iris</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>	built-in microphone and speaker			
	<b>Digital I/O</b>	I/O Wire	No		
	<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)		-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 (IEEE802.3af)		PoE (IEEE802.3af)	
<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")	ø 160 x 44.9 mm (6.30" x 1.77")	ø 160 x 46.4 mm (6.30" x 1.83")
		<b>In-Ceiling Mount</b>	ø 164 x 47.66 mm (6.46" x 1.88")	ø 164 x 44.9 mm (6.46" x 1.77")	ø 164 x 46.4 mm (6.46" x 1.83")
	<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)		480 g (1.06 lb)	
<b>Ingress Protection</b>		No		IP66	
<b>Vandal Resistance</b>		No		IK10 for metal casing	

**Note:**

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- 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 (IEEE802.3af)	
<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		
<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>			Single Stream from H.264 or MJPEG		
<b>Frame Rate</b>			15 fps at 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		
<b>Maximum Aperture</b>			F/2.0		
<b>Mount</b>			M12, Pitch 0.5 mm		
<b>Image Format</b>			4.1 mm (image circle)		
<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 (IEEE802.3af)		
<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	1/2.5" progressive scan CMOS
<b>Picture Elements</b>		2048 (H) x 1536 (V)	2560 (H) x 1920 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.08 Lux	0.15 Lux
	<b>B/W</b>	0.05 Lux	0.10 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	1.05 mm
<b>Maximum Aperture</b>		F/2.0	F/2.8
<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>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 (IEEE802.3af) IR LED ring: 12V DC	
	<b>w/ PoE Converter</b>	PoE (IEEE802.3 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:**

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 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	1.05 mm
Maximum Aperture		F/2.0	F/2.8
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 (IEEE802.3af)	
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	1.05 mm
Maximum Aperture		F/2.0	F/2.8
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		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 (IEEE802.3af) 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 ~ 1/10000 sec	1 ~ 1/10000 sec	1/2 ~ 1/30000 sec	1 ~ 1/10000 sec
			1/1.5 ~ 1/30000 sec			1/1.5 ~ 1/30000 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		3-pin terminal block					
		Ethernet (10/100 Base-T), RJ-45 connector					
		1 in 1 out (stereo jack, ø 35 mm)					
		4 in 1 out (I/O Wires)					
		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 – non-PoE)		GV-SD220-S (Outdoor – non-PoE)		
	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				
Maximum Aperture					F1.6				
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			
	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		24V AC / 24V DC		
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		



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

Camera	GV-SD220 (Indoor - PoE)		GV-SD220-S (Outdoor - PoE)	
	20X / 30X		20X / 30X	
				
Image Sensor	1/2.8 Progressive Scan CMOS			
Picture Elements	1920 (H) x 1080 (V)			
Minimum Illumination	Color	0.05 lux at F/1.6		
	B/W	0.005 lux at F/1.6		
Shutter Speed	1/1 ~ 1/10000 sec			
White Balance	Auto / Manual			
Gain Control	Auto / Manual			
AGC Control	Auto / Manual			
S/N Ratio	> 50 dB (AGC Off)			
BLC	On / Off			
Optical Zoom	20x / 30x			
Digital Zoom	12x			
WDR Pro (with WDR sensor)	Yes			
Dynamic Range	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, 60/50 fps (60/50 Hz) at 1280 x 720			
Audio Compression	G.711, AAC (optional)			
Sensor Input	4			
Alarm Output	1			
Pan Travel	360° endless			
Tilt Travel	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° ~ 460°/s			
Presets	255			
Preset Accuracy	0.2°			
Preset Speed	0.5° ~ 460°/s			
Sequence	8			
Auto Pan	8			
Cruise	4			
Tour	8			
Privacy Mask	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 ~ 94.0 mm			
Maximum Aperture	F1.6			
Operation	Focus	Auto/Manual		
	Iris			
	Zoom			
<b>Mechanical</b>				
Temperature Detector	Yes			
Connectors	Power	DC Jack, PoE		
	Ethernet	Ethernet (10/100 Base-T), RJ-45 Connector		
	Audio	1 in 1 out (RCA female)		
	Digital I/O	4 in 1 out (I/O wires)		
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	-10 °C ~ 50 °C (14 °F ~ -122 °F)		-40 °C ~ 50 °C (-40 °F ~ -122 °F)	
Humidity	20% to 90% (no condensation)			
Power Source	24V AC / 24V DC / PoE (IEEE 802.3at)		24V AC / 24V DC / PoE++ (90 W)	
Max. Power Consumption	30 W		60 W (with 30 W heater)	
Regulatory	CE, FCC, RCM, RoHS Compliant			
Dimensions	Camera Body	ø 172 x 221.9 mm (7" x 8.8")		ø 220 x 297.75 mm (8.7" x 11.7")
Weight	3.2 kg (7.1 lb)		4.7 kg (10.4 lb)	
Ingress Protection	-		IP67	
Vandal Resistance	-		IK10 for metal and polycarbonate	

**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.