

GV-QFER12700 12MP H.265 Low Lux WDR IR Fisheye IP Camera



Introduction

GV-QFER12700 is a 12 MP outdoor fisheye camera allowing you to monitor all angles of a location and can be installed to the ceiling or the wall. GV-QFER12700 supports H.265 video codec to achieve better compression ratio while maintaining high video quality at reduced network bandwidths. The live view of the camera can be accessed from up to 20 connections through the web interface. Equipped with automatic IR-cut filter and IR LEDs, GV-QFER12700 is capable of day and night surveillance. In addition, the embedded edge dewarping engine enables the camera to dewarp images by the camera itself rather than consuming resources from the backend devices.

Key Features

- 1/1.7" progressive scan CMOS
- Quad streams from H.265, H.264 or MJPEG
- Up to 20 fps at 4000 x 3000
- On-edge dewarping up to 8 MP; software dewarping up to 12 MP
- Day and Night function (with removable IR-cut filter)
- Vandal resistance (IK10 for metal casing)
- Ingress protection (IP66)
- One sensor input and one alarm output
- Built-in micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) for local storage
- Two-way audio
- DC 12V/ PoE (IEEE 802.af)
- Provides 360° and 180° panorama view
- Different angle of view accessible by multiple users at the same time
- · Playback from any view angle and zoom level
- No mechanical moving parts
- Low lux enhancement
- 3D noise reduction
- · Virtual PTZ function

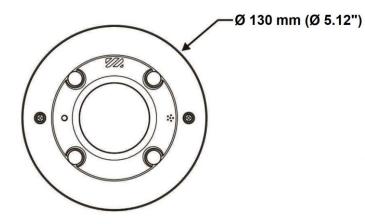
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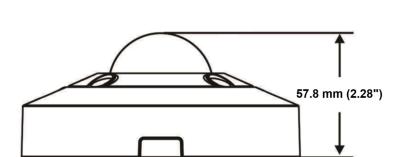
- 12 languages on Web interface
- ONVIF Profile S / G/ T support

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Dimensions





Specifications

Camera			
Image Sensor		1/1.7" progressive scan CMOS	
Picture Elements		4000 (H) x 3000 (V)	
	Color	0.1 Lux	
Minimum Illumination	B/W	0.01 Lux	
illumination	IR On	0 Lux	
Shutter Spee	d	(1 ~ 1/10000 sec)	
White Balance		Auto / Manual	
S/N Ratio		52dB	
WDR		Yes	
Dynamic Range		77dB	
Optics Lens			
Megapixel		Yes	
Day/Night		Yes (with removable IR-cut filter)	
Lens Type		Fixed	
Focal Length		1.65 mm	
Maximum Aperture		F/2.8	
Image Forma	nt	1/1.7"	
Horizontal FO	OV	180°	
	Focus	Fixed	
Operation	Zoom	Fixed	
	Iris	Fixed	
IR LED Quanti	ty	4 IR LEDs	
Max. IR Distar	nce	10 m (35 ft)	
Operation			
Video Compr	ession	H.265, H.264, MJPEG	
Video Stream	ning	Quad streams from H.265, H.264 or MJPEG	
		20 fps at 4000 x 3000 (50/60 Hz)	
Frame Rate		*The frame rate and the performance may vary depending on the number o	
		connections and data bitrates (different scenes).	
Image Setting		Brightness, Contrast, Saturation, Sharpness, Hue, White Balance, Shutter Speed, D/N Sensitivity, Backlight Compensation, WDR, Denoise	
Audio Compression		G.711	
Audio Support		Two-way Audio (external microphone and speaker required)	
Sensor Input		1 input	
Sensor Output		1 output	

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Video Resolutio	on			
	Main Stream		4000 x 3000 (Default), 1920 x 1080	
Software Dewarping	Sub Stream		1024 x 768 (Default), 800 x 600, 640 x 480, 320 x 240	
	Third Stream (Closed by Default)		800 x 600, 720 x 576, 640 x 480, 352 x 288, 320 x 240	
	Quad Stream (Clos		800 x 600, 720 x 576, 640 x 480, 352 x 288, 320 x 240	
	(0.00	Fisheye	2976 x 2976, 2048 x 2048, 2048 x 1536, 1920 x 1080	
		Single View	2976 x 2976, 2048 x 2048, 2048 x 1536, 1920 x 1080	
	Main Stream	Dual 180 Degree	2048 x 1536, 1920 x 1080	
		Quad View	2976 x 2976, 2048 x 2048, 2048 x 1536, 1920 x 1080	
0. 5.1		Fisheye	2048 x 2048, 2048 x 1536, 1920 x 1080, 1600 x 1200, 1408 x 1408, 960 x 960, 960 x 720, 960 x 544	
On-Edge Dewarping	Sub Stream	Single View	2048 x 2048, 2048 x 1536, 1920 x 1080, 1600 x 1200, 1408 x 1408, 960 x 960, 960 x 720, 960 x 544	
	Sub Stream	Dual 180 Degree	2048 x 1536, 1920 x 1080, 1600 x 1200, 960 x 720, 960 x 544	
		Quad View	2048 x 2048, 2048 x 1536, 1920 x 1080, 1600 x 1200, 1408 x 1408, 960 x 960, 960 x 720, 960 x 544	
	Third Stream (Closed by Default)	Single View	480 x 360	
Network				
Interface			10/100/1000 Ethernet	
Protocol			ARP, IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF (Profile S/G/T)	
Security Feature			 No default ID and Password 802.1x authentication HTTPS with a SSL certificate stored in the camera 	
Mechanical			THE SWILL SEE SCHOOL STORES IN THE COMMENT	
	Power		DC Jack	
	Ethernet		RJ-45	
Connectors	Audio		1 In (external microphone) 1 Out (Stereo phone jack, 3.5 mm / 0.14")	
	Digital I/O		4-pin terminal block pitch 2.5 mm (0.1")	
	Local Storage		Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) Support recording to NAS	
General			and the same of th	
Operating	Start-up		-20°C ~ 70°C (-4°F ~ 158°F)	
Temperature	Operation		-30°C ~ 55°C (-22°F ~ 131°F)	
Humidity	<u> </u>		10% to 90% (no condensation)	
Power Source			12V DC / PoE (IEEE 802.3af)	
Max. Power C	Consumption		12.95W	
Dimension			Ø 130 x 57.8 mm (Ø 5.12" x 2.28")	
Weight			565 g (1.25 lb)	
Ingress Protection			IP66	
Vandal Resistance			IK10	
Regulatory			CE, FCC, RoHS compliant	
Power over Eth	ernet		SE, FOG, NOTIS COMPILATE	
PoE Standard			PoE (IEEE 802.3af Power over Ethernet / PD)	
PoE Power Supply Type			End-Span, Mid-Span	
PoE Power Output			Per Port 48 V DC, 320 mA, Max. 15.4 W	
Web Interface				
Installation Management			Web-based configuration	
Maintenance			Firmware upgrade through Web Browser or GV-IP Device Utility	
Language			Czech, English, French, German, Hungarian, Italian, Japanese, Portuguese, Russian, Spanish, Traditional Chinese, Simplified Chinese	

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Applications		
Software Supported	GV-VMS (V17.4.1 / V18.2.1) *It is required to apply patch files to all the supported software. *Currently only GV-VMS, applied with the patches, supports GV-QFER12700.	
Smart Device Access	GV-Eye for iOS and Android	
Live Viewing	Internet Explorer, Non-IE browser (Edge, Chrome, Firefox, Safari), Mobile App *Edge, Chrome, and Firefox only support displaying live view with MJPEG and H.264. *Safari only supports displaying live view with MJPEG.	

Note:

- 1. Do not use clothes or any ordinary material to clean the camera cover since they may result in scratches.
- 2. Mind the following when using an inserted memory card for recording:
 - Recorded data on the memory card can be damaged or lost if the data are accessed while the camera is under physical shock, power interruption, memory card detachment or when the memory card reaches the end of its lifespan. No guarantee is provided for such causes.
 - The stored data can be lost if the memory card is not accessed for a long period of time. Back up your data periodically if you seldom access the memory card.
 - Memory cards are expendable and their durability varies according to the conditions of the installed site and how they are
 used. Back up your data regularly and replace the memory card annually.
 - To avoid power outage, it is highly suggested to apply a battery backup (UPS).
 - For better performance, it is highly suggested to use micro SD card of MLC NAND flash, Class 10.
 - Replace the memory card when its read/write speed is lower than 6 MB/s or when the memory card is frequently undetected by the camera.
- 3. To avoid reflected glare by IR LED, keep a minimum distance of 1 M (3.28 ft) between the camera body and nearby walls.
- 4. Specifications are subject to change without notice.

Packing List

- 1. GV-QFER12700
- 2. Self-Tapping Screw x 3
- 3. Plastic Anchor x 3
- 4. Torx Wrench
- 5. Waterproof Rubber Set
- 6. 4-Pin Terminal Block
- 7. Download Guide
- 8. Warranty Card

Accessories

Model No.	Name		Details
GV-Mount100	Straight Tube and Junction Box Kit		Dimensions: 200 x 170 x 257.5 mm (7.9" x 6.7" x 10.1") Weight: 3.17 kg (6.99 lb)
GV-Mount101	Straight Tube Kit	1	Dimensions: 219 x 125 x 332 mm (8.6" x 4.9" x 13.1") Weight: 1.8 kg (3.97 lb)

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GV-Mount200 (*) (must be used with GV-Mount903-2)	Wall Pendant Mount		Dimensions: 225 x 140 x 250 mm (8.9" x 5.5" x 9.8") Weight: 900 g (1.98 lb) Note: To ensure the image quality, leave a distance of 1 M or more between the camera body and the wall.
GV-Mount203	Wall Mount and Junction Box		Dimensions: 315 x 195.5 x 225 mm (12.4 x 7.7 x 8.9") Weight: 2.95 kg (6.5 lb)
GV-Mount206-1	Wall Box Mount		Dimensions: 126.5 x 211.3 x 176.85 mm / 5 x 8.3 x 6.96" Weight: 1.06 kg (2.33 lb)
GV-Mount208-2	Swan Neck Mount		Dimensions: 1043 x 519 x 256 mm (41.06" x 20.43" x 10.08") Weight 10.5 kg (23.15 lb)
GV-Mount300-1 (*)	Convex Corner Adapter Kit		Dimensions: 238.6 x 395.2 x 210 mm (9.4" x 15.5" x 8.2") Weight: 4.27 kg (9.41 lb)
GV-Mount310-1 (*)	Concave Corner Adapter Kit		Dimensions: 111.2 x 369.9 x 210 mm (4.37" x 14.5" x 8.2") Weight: 2.96 kg (6.53 lb)
GV-Mount702	Extension Tube		Four options are available. Dimensions: Ø 5.4 x 10 or 20 or 30 or 50 cm (Ø 2.1" x 3.9" or 7.9" or 11.8" or 19.7") Weight: 180 g or 390 g or 550 g or 800 g (0.4 lb or 0.86 lb or 1.21 lb or 1.76 lb)
GV-Mount903-2 (*)	Dome Housing Mount	1	Dimensions: Ø 185.5 x 165.3 mm (Ø 7.3" x 6.5") Weight: 1.03 kg (2.27lb)
GV-Mount904-2	Tilting Wall Mount Bracket		Dimensions: Ø 159.1 x 40.5 mm Ø 6.3 x 1.6") Weight: 0.48 kg (1.05 lb)
GV-Mount912-1	Power Box Mount Bracket		Dimensions: Ø 130 mm (Ø 5.1") Weight: 180 g (0.4 lb)



Power Adapter	Contact our sales representatives for the countries and areas supported.	
GV-PoE Switch	GV-PoE Switch is designed to provide power along with network connection for IP devices. GV-PoE Switch is available in various models with different numbers and types of ports.	
GV-PA191	Power over Ethernet (PoE) Adapter	GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.
GV-Mount919	In-Ceiling Mount	Dimensions: Ø 189 x 75.9 mm (Ø 7.44 x 2.98") Weight: 525 g (1.15 lb)

Note (*): GV-Mount200 + GV-Mount903-2 + GV-Mount300-1 and GV-Mount200 + GV-Mount903-2 + GV-Mount310-1 are only for US markets. Please note that using a pendant or corner mount with the Fisheye camera may cause an IR reflection due to its 360-degree IR.

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