GV-FER5701   5MP H.265 Low Lux WDR Pro IR Fisheye Rugged IP Camera

IoT Cyber Security

Introduction

GV-FER5701 is a 5 MP outdoor fisheye camera allowing you to monitor all angles of a location and can be installed to the ceiling and the wall. Equipped with automatic IR-cut filter and IR LEDs, GV-FER5701 is capable of day and night surveillance. GV-FER5701 supports H.265 video codec to achieve better compression ratio while maintaining high video quality at reduced network bandwidths. Without installing any software, you can watch live view and utilize functions such as video recording, privacy mask and alert notification through its Web interface. In addition, the camera seamlessly integrates with GV-DVR / NVR / VMS, providing advanced monitoring and video management features.
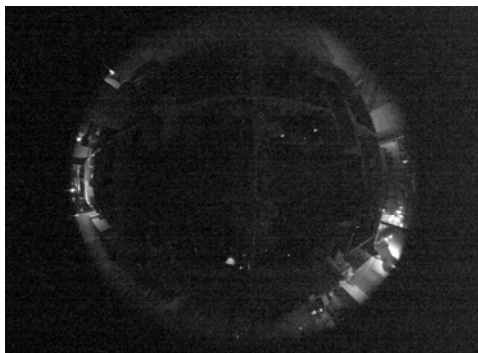
Key Features

- 1/2.5'' progressive scan low lux CMOS
- Triple streams from H.265, H.264 and MJPEG
- Up to 30 fps at 2592 x 1944
- Day and night (with removable IR-cut filter)
- Wide Dynamic Range Pro (WDR Pro)
- Intelligent IR
- Vandal resistance (IK10+ for metal casing)
- Ingress protection (IP67)
- 12V DC / PoE+ (IEEE 802.3at)
- Built-in micro SD card slot (SD/SDHC/SDXC/UHS-I) for local storage
- USB slot for WiFi adapter or USB hard drive
- One sensor input and alarm output
- Built-in microphone
- Digital Object Tracking
- Provides 360° and 180° panorama view
- Stereographic projection to reduce the distortion of the image
- Different angle of view accessible by multiple users at the same time
- Playback from any view angle and zoom level
- No mechanical moving parts
- Two-way audio
- Low lux enhancement
- 3D noise reduction
- Smart streaming
- Tampering alarm
- Virtual PTZ function
- Auto Pan function
- Privacy mask
- Visual automation
- Text overlay
- 31 languages on Web interface
- ONVIF (Profile S, T) conformant
- Recording assigned by GV-Edge Recording Manager (Windows version)
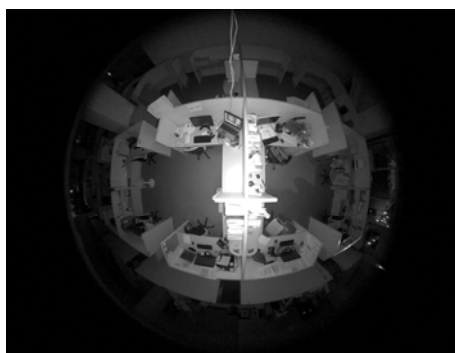- TAICS IoT Cyber Security certified

* No Memory Card Slot & local storage function for Argentina.
* Smart streaming requires GV-DVR / NVR V8.7.0, GV-VMS V16.10.3.0 or later software versions.

The following is a comparison of live view between a third-party fisheye camera and a GV-Fisheye Camera with IR LED.
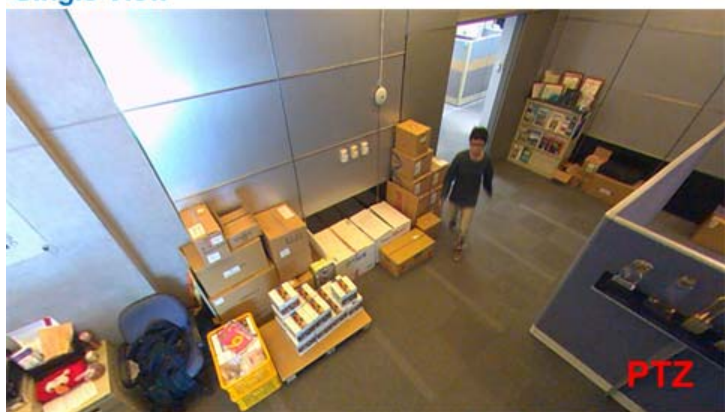

Third-Party Fisheye Camera

GV-Fisheye Camera with IR LED

Photos

Fisheye Source Image
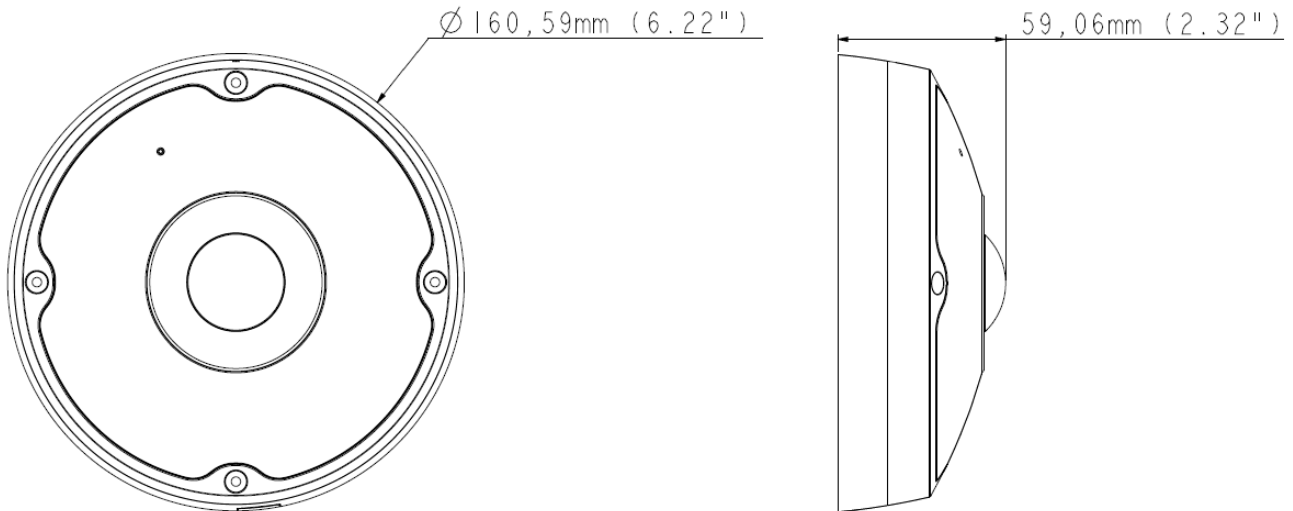

Single View

2 x 180° View

360° View

Quad View

Dimensions

Specifications

Camera		
Image Sensor		1/2.5" progressive scan low lux CMOS
Picture Elements		2592 (H) x 1944 (V)
Minimum Illumination	Color	0.03 Lux
	B/W	0.02 Lux
	IR On	0 Lux
Shutter Speed		Automatic, Manual (1/5 ~ 1/16000 sec)
White Balance		Automatic, Manual (2800K ~ 8500K)
Gain Control		Automatic
S/N Ratio		50 dB
WDR Pro		Yes
Dynamic Range		Up to 120 dB
Optics Lens		
Megapixel		Yes
Day/Night		Yes (with removable IR-cut filter)
Lens Type		Fixed
Focal Length		1.05 mm
Maximum Aperture		F/2.8
Mount		M12
Image Format		1/2.5"
Horizontal FOV		180°
Operation	Focus	Fixed
	Zoom	Fixed
	Iris	Fixed
IR LED Quantity		6 IR LEDs
Max. IR Distance		30 m (100 ft)
Operation		
Video Compression		H.265, H.264, MJPEG
Video Streaming		Stream 1 from H.265 or H.264 Stream 2 from H.265, H.264 or MJPEG Stream 3 from H.265, H.264 or MJPEG
Frame Rate		50Hz: 25 fps at 2592 x 1944, 25 fps at 2048 x 1944 60Hz: 30 fps at 2592 x 1944(default), 30 fps at 2048 x 1944 *The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).

Image Setting		Brightness, Contrast, Saturation, Sharpness, Gamma, White Balance, Flicker-less, Image Orientation (Flip, Mirror, 0°, 180°), Shutter Speed, D/N Sensitivity, Backlight Compensation, WDR, Defog, Low Lux Enhancement, Denoise, Metering
Audio Compression		G.711
Audio Support		Two-way Audio (external speaker required)
Sensor Input		1 input (Dry Contact)
Sensor Output		1 digital output (200mA 5V DC)
Video Resolution		
Main Stream	4:3	2592 x 1944 (default)
	20:19	2048 x 1944, 1792 x 1696, 1440 x 1376, 1280 x 1200
Sub Stream	4:3	640 x 480 (default)
	20:19	640 x 608
Third Stream (Closed by Default)	4:3	640 x 480
	20:19	640 x 608
Network		
Interface		10/100 Ethernet
Protocol		DHCP, DNS, DynDNS, FTP, HTTP, HTTPS, ICMP, IPv4, IPv6, Multicast, NTP, ONVIF (Profile S, T), QoS (DSCP), RTCP, RTSP, SNMP, SMTP, SSL, TCP/IP, UDP, UPnP, 3GPP/ISMA
Wireless LAN		IEEE 802.11 b/g/n
Antenna Type		External
Security		WEP, WPA-PSK(TKIP), WPA-PSK(AES), WPA2-PSK(TKIP), WPA2-PSK(AES)
Security Feature		- No default ID and Password - 802.1x authentication - HTTPS with a SSL certificate stored in the camera - 256-bit AES encryption (requires firmware V1.14 or later working with GV-VMS V18.1 or later)
Mechanical		
Temperature Detector		Yes
Connectors	Power	2-pin terminal block (DC 12V, 3.5A), PoE
	Ethernet	RJ-45
	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
	Auto Iris	None
	Local Storage	Micro SD card slot (SD/SDHC/SDXC/UHS-I, Class 10) *UHS-II card type is not supported.
	USB	GV-WiFi Adapter or USB hard drive
LED Indicator		1 LED: Power / Status (Green light shows the camera is on.)
General		
Operating Temperature	Start-up	-20°C ~ 50°C (-4°F ~ 122°F)
	Operation	-30°C ~ 50°C (-22°F ~ 122°F)
Humidity		10% to 90% (no condensation)
Power Source		12V DC / PoE+ (IEEE 802.3at)
Max. Power Consumption		15 W
Dimension		Ø 160.6 x 59.1 mm (Ø 6.32" x 2.33")
Weight		700 g (1.54 lb)
Ingress Protection		IP67
Vandal Resistance		IK10+ for metal casing
Regulatory		CE, FCC, LVD, RoHS, TAICS (IoT Cyber Security) compliant
Power over Ethernet		
PoE Standard		PoE+ (IEEE 802.3at Class 4 Power over Ethernet / PD)
PoE Power Supply Type		End-Span, Mid-Span
PoE Power Output		Per Port 48V DC, 600mA. Max. 30 watts

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Web Interface	
Installation Management	Web-based configuration
Maintenance	Firmware upgrade through Web Browser or Utility
Access from Web Browser	Camera Live View, Video Recording, Change Video Quality, Bandwidth Control, Image Snapshot, Audio, Picture in Picture, Picture and Picture, Privacy Mask, Text Overlay, Digital PTZ
Language	Arabic / Bulgarian / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Indonesian / Italian / Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Swedish / Thai / Traditional Chinese / Turkish
Applications	
Software Supported	GV-DVR / NVR (V8.8.0), GV-VMS (V17.1.0.100), GV-Control Center (V3.5.1), GV-Edge Recording Manager Windows Version (V1.4.0), GV-Recording Server (V1.4.2), GV-Redundant / Failover Server (V1.1.0.0), GV-Mobile Server (V1.5.0.0)
Smart Device Access	GV-Eye for iOS and Android
Live Viewing	IE, Mobile App

Note:

1. It is required to apply patch files to some of the supported software.
2. Do not use clothes or any ordinary material to clean the camera cover since they may result in scratches.
3. 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.
4. Specifications are subject to change without notice.

Packing List

1. H.265 Fisheye Camera
2. Back Plate
3. Plate Screw x 3
4. Plastic Screw Anchor x 3
5. Torx Wrench
6. RJ-45 Connector
7. Data Cable
8. Terminal Block
9. Installation Sticker
10. Ruler
11. Silica Gel Bag x 2
12. Download Guide
13. 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)

Model No.	Name		Details
GV-Mount101	Straight Tube Kit		Dimensions: 219 x 125 x 332 mm (8.6" x 4.9" x 13.1") Weight: 1.8 kg (3.97 lb)
GV-Mount200	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 Kit		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	Wall Box Mount		Dimensions: 126.5 x 211.3 x Ø 176.85 mm (5" x 8.3" x Ø 6.96") Weight: 0.93 kg / 2.06 lb **Note:** To ensure the image quality, leave a distance of 1 M or more between the camera body and the wall.
GV-Mount 208-2	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-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)

Model No.	Name		Details
GV-Mount903-1	Dome Housing		Dimensions: Ø 185.51 x 165.35 mm (Ø 7.3" x 6.51") Weight: 900 g (1.98 lb)
GV-Mount904-1	Tilting Wall Mount Bracket		Dimensions: Ø 159.1 x 40.5 mm (Ø 6.3" x 1.6") Weight: 350 g (0.77 lb)
GV-Mount912	Power Box Mount Bracket		Dimensions: Ø 146 x 10.5 mm (Ø 5.7'' x 0.4'') Weight: 180 g (0.4 lb)
GV-WiFi Adaptor V2			Dimensions: 15 x 15 x 155 mm (0.59" x 0.59" x 6.10") Weight: 0.01 kg (0.02 lb)
GV-Relay V2			GV-Relay V2 is designed to expand the voltage load of GV IP devices. It provides 4 relay outputs, and each can be set as normally open (NO) or normally closed (NC) independently as per your requirement.
GV-POE Switch			GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.
Power Adaptor			Contact our sales representatives for the countries and areas supported.