

## GV-FER3402 3MP H.264 WDR Pro Fisheye Rugged IP Camera



### Introduction

GV-FER3402 is an outdoor fisheye camera that allows you to monitor all angles of a location. It can be installed to the ceiling, wall, wall corner and the pole. The camera's distorted hemispherical image can be converted into a conventional rectilinear projection. Without installing any software, you can watch live view and utilize functions such as motion detection, privacy mask, and alert notification through the Web interface. In addition, the camera seamlessly integrates with the GV-System, providing advanced monitoring and video management features.

### Key Features

- 1/3.2" progressive scan CMOS
- Single stream from H.264 and M.JPEG
- Up to 15 fps at 2048 x 1536
- Day and night (with removable IR-cut filter)
- Wide Dynamic Range Pro (WDR Pro)
- Vandal resistance (IK10+ for metal casing)
- Ingress protection (IP67)
- Built-in micro SD card slot (SD/SDHC) for local storage
- Built-in microphone and speaker
- [Digital Object Tracking](#)
- 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
- Two-way audio
- Defog
- Tampering alarm
- Virtual PTZ function
- Auto Pan function
- Privacy mask
- Visual automation
- Text overlay
- 31 languages on Web interface
- ONVIF (Profile S) conformant

Photos

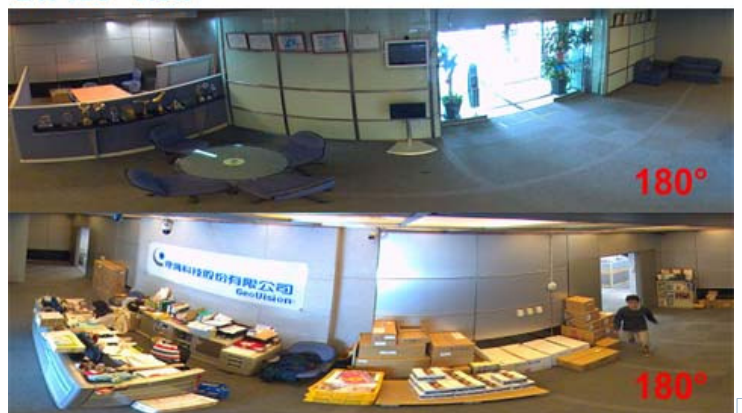
Fisheye Source Image



Single View



2 x 180° View



360° View

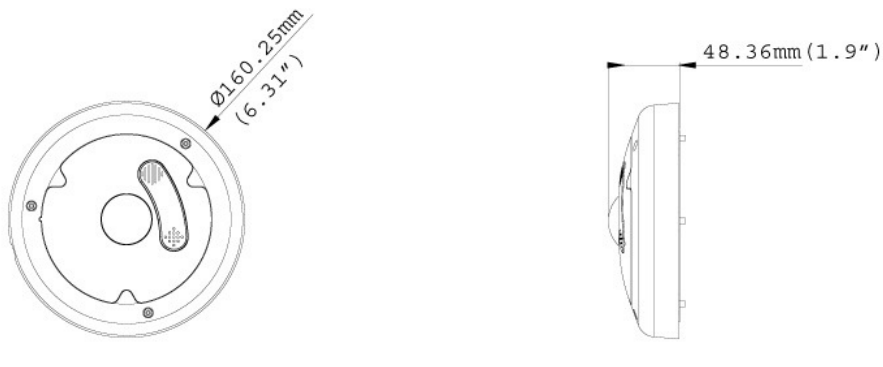


Quad View

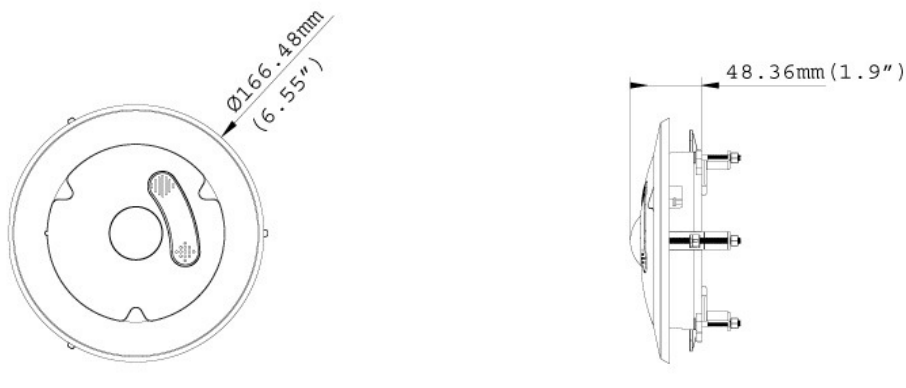


## Dimensions

- Camera Cover for Hard Ceiling Mount



- Camera Cover for In-Ceiling Mount



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## Specifications

System Requirements		
OS	32-bit	Windows XP/Vista/7/Server 2008
	64-bit	Windows 7/Server 2008
GV-System Version	GV-System V8.5.9.0 with patch or later	
Browser	Internet Explorer 7.x or later, Firefox, Google Chrome, Safari	
Camera		
Image Sensor	1/3.2" progressive scan CMOS	
Picture Elements	2048(H) x 1536(V)	
Minimum Illumination	Color	0.08 Lux
	B/W	0.05 Lux
Shutter Speed	Automatic, Manual (1/5 ~ 1/8000 sec.)	
White Balance	Automatic, Manual (2800K ~ 8500K)	
Gain Control	Automatic	
S/N Ratio	47 dB	
WDR Pro	Yes	
Optics/Lens		
Megapixel	Yes	
Day/Night	Yes (with removable IR-cut filter)	
Lens Type	Fixed	
Focal Length	1.19 mm	
Maximum Aperture	F/2.0	
Mount	M12, Pitch 0.5 mm	
Image Format	4:4 (1 megapixel) (4:3)	

Horizontal FOV	180°	
Operation	Focus	Fixed
	Zoom	Fixed
	Iris	Fixed
<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, 1280 x 1200 * 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, Shutter Speed, D/N, Backlight Compensation, WDR, Defog	
Audio Compression	G.711, AAC (optional)	
Audio Support	Two-Way Audio	
<b>Video Resolution</b>		
Main Stream	2048 x 1536, 1440 x 1376, 1280 x 1200	
<b>Network</b>		
Interface	10/100 Ethernet	
Protocol	FTP, DHCP, DynDNS, HTTP, HTTPS, NTP, ONVIF (Profile S), PSIA, QoS (DSCP), RTSP, SMTP, SNMP, TCP, UDP, UPnP	
<b>Mechanical</b>		
Temperature Detector	Yes	
Connectors	Power	2-pin terminal block, PoE
	Ethernet	Ethernet (10/100 Base-T), RJ-45 Connector
	Audio	Built-in microphone and speaker
	Digital I/O	None
	Auto Iris	None
	Local Storage	Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) * SDXC and UHS-I card types are not supported.
	TV-Out	None
	Mini USB	GV-WiFi Adapter or USB hard drive
<b>General</b>		
Operating Temperature	-30°C ~ 50°C (-22°F ~ 122°F)	
Humidity	10% to 90% (no condensation)	
Power Source	12V DC // 24V AC // PoE (IEEE 802.3af)	
Max. Power Consumption	3.6W	
Dimension	Hard-Ceiling Mount	Ø160.25 x 48.36 mm (6.31" x 1.93")
	In-Ceiling Mount	Ø166.48 x 48.36 mm (6.55" x 1.93")
	Cable Length	1 m (3.28 ft.)
	Cable Diameter	ø 6.2 mm (0.24")
	Maximum Connector Diameter	ø 30 mm (1.18")
Weight	500 g (1.1 lb)	
Ingress Protection	IP67	
Vandal Resistance	IK10+ for metal casing	
Regulatory	CE, FCC, RoHS, PoHS compliant	
<b>Power over Ethernet</b>		
PoE Standard	IEEE 802.3af Power over Ethernet (PoE)	
PoE Power Supply Type	End-Span	
PoE Power Output	Per Port 48V DC, 350mA, Max. 15.4 watts	
<b>Web Interface</b>		
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, Digital I/O Control, Audio, Picture in Picture, Picture and Picture, Motion Detection, Privacy Mask, Visual Automation, Tampering Alarm, Auto Pan Function, Virtual PTZ, Wide Angle Lens Dewarping, Text Overlay
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	
Network Storage	GV-NVR, GV-System, GV-Backup Center, GV-Recording Server
Live Viewing	IE, GV-Multi View
OMSServer Support	GV-Control Center, GV-Center V2, GV-VSM

Note:

- Specifications are subject to change without notice.
- Do not use clothes or any ordinary material to clean the camera cover since they may result in scratches.
- 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.
  - 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.






### Packing List

- |                                      |   |
|--------------------------------------|---|
| 1. Fisheye Camera                    | 10. Power Cable                         |
| 2. Camera Cover (Hard Ceiling Mount) | 11. Terminal Block x2                   |
| 3. Screw (Hard Ceiling Mount) x3     | 12. Installation Sticker                |
| 4. Plastic Screw Anchor x3           | 13. Silica Gel Bag and Adhesive Tape x2 |
| 5. Camera Cover (In-Ceiling Mount)   | 14. Cable Connector                     |
| 6. Screw (In-Ceiling Mount) x3       | 15. GV-Fisheye IP Camera Software DVD   |
| 7. Support Bracket x3                | 16. GV-NVR Software DVD                 |
| 8. Torx Wrench                       | 17. GV-NVR Quick Start Guide            |
| 9. Waterproof Rubber                 |   |

### Accessories

Model No.	Name	Details
GV-Mount 100	Straight Tube and Junction Box Kit	 <p>Dimensions: 200 x 170 x 257.5 mm (7.9" x 6.7" x 10.1") Weight: 3.17 kg (6.99 lb)</p>
GV-Mount 101	Straight Tube Kit	 <p>Dimensions: 219 x 125 x 332 mm (8.6" x 4.9" x 13.1") Weight: 1.8 kg (3.97 lb)</p>

Model No.	Name	Details
GV-Mount200	Wall Pendant Tube	 <p>Dimensions: 225 x 140 x 250 mm (8.9" x 5.5" x 9.8") Weight: 900 g (1.98 lb)</p>
GV-Mount203	Wall Pendant Tube and Junction Box Kit	 <p>Dimensions: 315 x 195.5 x 225 mm (12.4" x 7.7" x 8.9") Weight: 2.95 kg (6.5 lb)</p>
GV-Mount205	Wall Mount Bracket Kit	 <p>Dimensions: 126.5 x 203 x 160 mm (5 x 8 x 6.3") (L x W x diameter) Weight: 0.5 kg (1.1 lb)</p>
GV-Mount300	Convex Corner Adapter Kit	 <p>Dimensions: 238.6 x 409.5 mm (9.4" x 16.1") Weight: 4.27 kg (9.41 lb)</p>
GV-Mount310	Concave Corner Adapter Kit	 <p>Dimensions: 238.6 x 409.5 mm (9.4" x 16.1") Weight: 4.27 kg (9.41 lb)</p>
GV-Mount400	Pole Mount Bracket Kit (Ø4" x 6")	 <p>Bracket: 241 x 161 mm (9.5" x 6.3") Weight: 1.70 kg (3.75 lb) Steel Strap Diameter: Ø4" x 6"</p>
GV-Mount410	Pole Mount Bracket Kit (Ø6" x 7.5")	 <p>Bracket: 241 x 161 mm (9.5" x 6.3") Weight: 1.70 Kg (3.75 lb) Steel Strap Diameter: Ø6" x 7.5"</p>

Model No.	Name	Details
GV-Mount702	Extension Tube	 <p>Four options are available.</p> <p>Dimensions: Ø5.4 x 10 or 20 or 30 or 50 cm (Ø2.1" x 3.9" or 7.9" or 11.8" or 19.7")</p> <p>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)</p>
GV-Mount903	Fisheye Dome Housing	 <p>Dimensions: Ø186 x 97.5 mm (Ø7.3" x 3.8")</p> <p>Weight: 700 g (1.54 lb)</p>
GV-Mount904	Tilting Wall Mount Bracket	 <p>Dimensions: Ø159.1 x 40.5 mm (Ø6.3" x 1.6")</p> <p>Weight: 400 g (0.88 lb)</p>
GV-Mount912	Power Box Mount Bracket	 <p>Dimensions: Ø146 x 10.5 mm (Ø5.7" x 0.4")</p> <p>Weight: 180 g (0.4 lb)</p>
GV-PA191	Power over Ethernet (PoE) Adapter	 <p>The GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.</p>
GV-POESwitch		<p>The GV-POESwitch is designed to provide power along with network connection for IP devices. The GV-POESwitch is available in various models with different numbers and types of ports.</p>
Power Adapter		<p>The power adapter is available in 6 regions: Argentina, Australia, Brazil, Europe, U.K and U.S.</p>

