

## GV-FE3402 3MP H.264 WDR Pro Fisheye IP Camera



### Introduction

GV-FE3402 is an indoor 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
- Dual streams from H.264 and MJPEG
- 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)
- 12V DC / 24V AC / PoE (IEEE 802.3af)
- Mini USB slot for [WiFi Adapter](#) or USB hard drive
- Built-in micro SD card slot (SD/SDHC) for local storage
- Recording assigned by GV-Edge Recording Manager ([Windows](#), [Mac](#) version)
- 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
- 2D noise reduction
- Defog
- Tampering alarm
- Virtual PTZ function
- Auto Pan function
- Privacy mask
- Visual automation
- Text overlay
- 31 languages on Web interface
- ONVIF (Profile S) conformant
- More storage option - [NAS](#)

\* No Memory Card Slot & local storage function for Argentina.

Photos

Fisheye Source Image



Single View



2 x 180° View



360° View

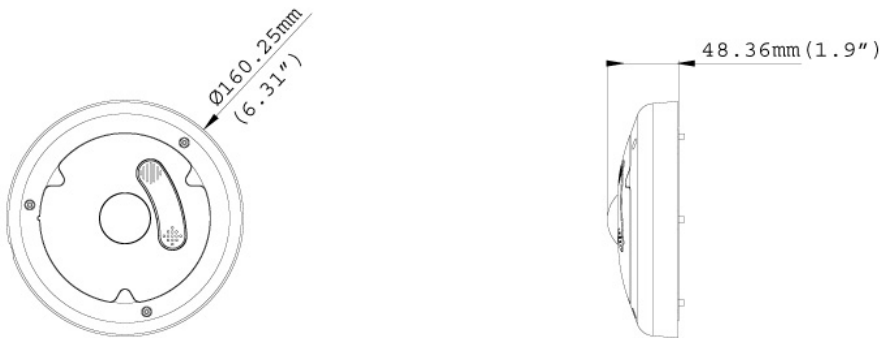


Quad View

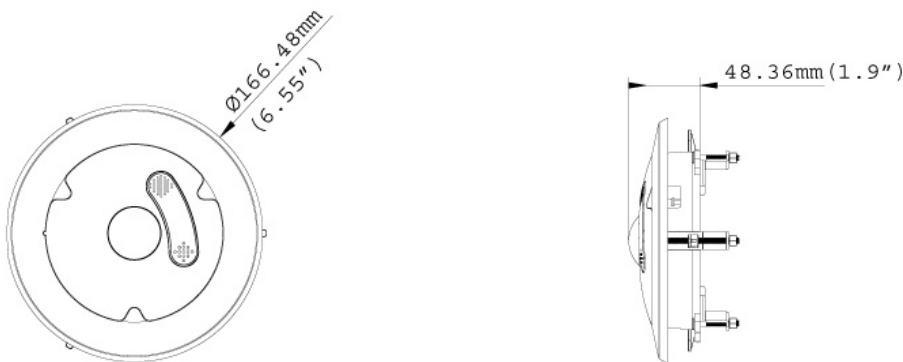


## Dimensions

- Camera Cover for Hard Ceiling Mount



- Camera Cover for In Ceiling Mount



## 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         | 4.1 mm (Image Circle)                                          |                                      |
| Horizontal FOV       | 180°                                                           |                                      |

|                            |                                                                                                                                                                                                                                                                                                              |                                                                                                               |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Operation                  | Focus                                                                                                                                                                                                                                                                                                        | Fixed                                                                                                         |
|                            | Zoom                                                                                                                                                                                                                                                                                                         | Fixed                                                                                                         |
|                            | Iris                                                                                                                                                                                                                                                                                                         | Fixed                                                                                                         |
| <b>Operation</b>           |                                                                                                                                                                                                                                                                                                              |                                                                                                               |
| Video Compression          | H.264, MJPEG                                                                                                                                                                                                                                                                                                 |                                                                                                               |
| Video Streaming            | Dual streams from H.264 or MJPEG                                                                                                                                                                                                                                                                             |                                                                                                               |
| Frame Rate                 | 15 fps at 2048 x 1536, 1440 x 1376, 1280 x 1200<br>*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, Denoise, Metering                                                                                                                                |                                                                                                               |
| 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                                                                                                                                                                                                                                                                        |                                                                                                               |
| Sub Stream                 | 640 x 480                                                                                                                                                                                                                                                                                                    |                                                                                                               |
| <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                                                                                                                                                                                                                                                                                                          |                                                                                                               |
| <b>Mechanical</b>          |                                                                                                                                                                                                                                                                                                              |                                                                                                               |
| Connectors                 | Power                                                                                                                                                                                                                                                                                                        | 2-pin terminal block, PoE                                                                                     |
|                            | Ethernet                                                                                                                                                                                                                                                                                                     | Ethernet (10/100 Base-T), RJ-45 Connector                                                                     |
|                            | Audio                                                                                                                                                                                                                                                                                                        | 1 In (built-in microphone)<br>1 Out (built-in speaker or Stereo phone jack, 3.5 mm / 0.14")                   |
|                            | Digital I/O                                                                                                                                                                                                                                                                                                  | None                                                                                                          |
|                            | Auto Iris                                                                                                                                                                                                                                                                                                    | None                                                                                                          |
|                            | Local Storage                                                                                                                                                                                                                                                                                                | Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10)<br>* 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      | 0 °C ~ 50 °C (32 °F ~ 122 °F)                                                                                                                                                                                                                                                                                |                                                                                                               |
| Humidity                   | 10% to 90% (no condensation)                                                                                                                                                                                                                                                                                 |                                                                                                               |
| Power Source               | 12V DC / 24V AC / PoE (IEEE 802.3af)                                                                                                                                                                                                                                                                         |                                                                                                               |
| Max. Power Consumption     | 8.6 W                                                                                                                                                                                                                                                                                                        |                                                                                                               |
| Dimension                  | 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")                                                                           |
| Weight                     | 410 g (0.9 lb)                                                                                                                                                                                                                                                                                               |                                                                                                               |
| Vandal Resistance          | IK10+ for metal casing                                                                                                                                                                                                                                                                                       |                                                                                                               |
| Regulatory                 | CE, FCC, RCM, RoHS compliant                                                                                                                                                                                                                                                                                 |                                                                                                               |
| <b>Power over Ethernet</b> |                                                                                                                                                                                                                                                                                                              |                                                                                                               |
| PoE Standard               | PoE (IEEE 802.3af Power over Ethernet / PD)                                                                                                                                                                                                                                                                  |                                                                                                               |
| PoE Power Supply Type      | End-Span                                                                                                                                                                                                                                                                                                     |                                                                                                               |
| PoE Power Output           | Per Port 48V DC, 350 mA. 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 |
| <b>Applications</b> |                                                                                                                                                                                                                                                                                                                                                  |
| Network Storage     | GV-System (GV-DVR/NVR), GV-Backup Center, GV-Recording Server, GV-VMS                                                                                                                                                                                                                                                                            |
| Live Viewing        | IE , GV-Multi View                                                                                                                                                                                                                                                                                                                               |
| CMS Server Support  | GV-Control Center, GV-Center V2, GV-Vital Sign Monitor                                                                                                                                                                                                                                                                                           |

**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.
  - 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.




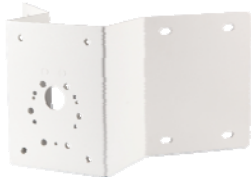



**Packing List**

- |                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| 1. Fisheye Camera                    | 9. Mini USB Extension Cable                        |
| 2. Camera Cover (Hard Ceiling Mount) | 10. Installation Sticker                           |
| 3. Screw (Hard Ceiling Mount) x 3    | 11. Power Adapter                                  |
| 4. Plastic Screw Anchor x 3          | 12. GV-IPCAM H.264 Software DVD                    |
| 5. Camera Cover (In-Ceiling Mount)   | 13. GV-Fisheye IP Dome Hardware Installation Guide |
| 6. Screw (In-Ceiling Mount) x 3      | 14. GV-NVR Software DVD                            |
| 7. Support Bracket x 3               | 15. Warranty Card                                  |
| 8. Torx Wrench                       |                                                    |

**Note:** The power adapter can be excluded upon request.

**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")<br>Weight: 3.17 kg (6.99 lb) |
| GV-Mount101 | Straight Tube Kit                  |  | Dimensions: 219 x 125 x 332 mm (8.6" x 4.9" x 13.1")<br>Weight: 1.8 kg (3.97 lb)    |

| Model No.   | Name                                   |                                                                                                    | Details                                                                                               |
|-------------|----------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| GV-Mount200 | Wall Pendant Tube                      |                   | Dimensions: 225 x 140 x 250 mm (8.9" x 5.5" x 9.8")<br>Weight: 900 g (1.98 lb)                        |
| GV-Mount203 | Wall Pendant Tube and Junction Box Kit |                   | Dimensions: 315 x 195.5 x 225 mm (12.4" x 7.7" x 8.9")<br>Weight: 2.95 kg (6.5 lb)                    |
| GV-Mount205 | Wall Mount Bracket Kit                 |                   | Dimensions: 126.5 x 203 x 160 mm / 5 x 8 x 6.3"<br>(L x W x diameter)<br>Weight: 0.5 kg / 1.1 lb      |
| GV-Mount300 | Convex Corner Adapter Kit              |                 | Dimensions: 238.6 x 409.5 mm (9.4" x 16.1")<br>Weight: 4.27 kg (9.41 lb)                              |
| GV-Mount310 | Concave Corner Adapter Kit             |                 | Dimensions: 238.6 x 409.5 mm (9.4" x 16.1")<br>Weight: 4.27 kg (9.41 lb)                              |
| GV-Mount400 | Pole Mount Bracket Kit (Ø 4" ~ 6")     |    | Bracket: 241 x 161 mm (9.5" x 6.3")<br>Weight: 1.70 kg (3.75 lb)<br>Steel Strap Diameter: Ø 4" ~ 6"   |
| GV-Mount410 | Pole Mount Bracket Kit (Ø 6" ~ 7.5")   |  | Bracket: 241 x 161 mm (9.5" x 6.3")<br>Weight: 1.70 kg (3.75 lb)<br>Steel Strap Diameter: Ø 6" ~ 7.5" |

| Model No.       | Name                              |                                                                                     | Details                                                                                                                                                                                                                                  |
|-----------------|-----------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GV-Mount702     | Extension Tube                    |    | <p><b>Four</b> options are available.</p> <p>Dimensions: Ø 5.4 x 10 or 20 or 30 or 50 cm<br/>(Ø 2.1" 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<br/>(0.4 lb or 0.86 lb or 1.21 lb or 1.76 lb)</p> |
| GV-Mount903     | Fisheye Dome Housing              |    | <p>Dimensions: Ø 186 x 97.5 mm (Ø 7.3" x 3.8")</p> <p>Weight: 700 g (1.54 lb)</p>                                                                                                                                                        |
| GV-Mount904     | Tilting Wall Mount Bracket        |    | <p>Dimensions: Ø 159.1 x 40.5 mm (Ø 6.3" x 1.6")</p> <p>Weight: 400 g (0.88 lb)</p>                                                                                                                                                      |
| GV-Mount912     | Power Box Mount Bracket           |  | <p>Dimensions: Ø 146 x 10.5 mm (Ø 5.7" 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-POE Switch   |                                   |                                                                                     | <p>The 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.</p>                                          |
| GV-WiFi Adaptor |                                   |  | <p>Weight: 20 g (0.04 lb)</p> <p>Dimensions: 15 x 15 x 155 mm (0.59" x 0.59" x 6.10")</p> <p>Supplied with mini USB to standard USB adapter.</p>                                                                                         |
| Power Adapter   |                                   |                                                                                     | <p>The power adapter is available in 6 regions: Argentina, Australia, Brazil, Europe, U.K and U.S.</p>                                                                                                                                   |