GV-FER5302 5MP H.264 WDR Fisheye Rugged IP Camera

Introduction
GV-FER5302 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
- 1/2.5” progressive scan CMOS
- Dual streams from H.264 and MJPEG
- Up to 10 fps at 2560 x 1920
- Day and night (with removable IR-cut filter)
- Vandal resistance (IK10+ for metal casing)
- Ingress protection (IP67)
- 12V DC / 24V AC / PoE (IEEE 802.3af)
- 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
- Wide Dynamic Range (WDR)
- 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

<table>
<thead>
<tr>
<th></th>
<th>32-bit</th>
<th>64-bit</th>
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<tbody>
<tr>
<td>GV-System Version</td>
<td>GV-System V8.5.9.0 with patch or later</td>
<td></td>
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<tr>
<td>Browser</td>
<td>Internet Explorer 7.x or later, Firefox, Google Chrome, Safari</td>
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</tbody>
</table>

Camera

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/2.5” progressive scan CMOS</td>
</tr>
<tr>
<td>Picture Elements</td>
<td>2560 (H) x 1920 (V)</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>0.15 Lux</td>
</tr>
<tr>
<td>B/W</td>
<td>0.10 Lux</td>
</tr>
<tr>
<td>Shutter Speed</td>
<td>Automatic, Manual (1/5 ~ 1/8000 sec.)</td>
</tr>
<tr>
<td>White Balance</td>
<td>Automatic, Manual (2800K ~ 8500K)</td>
</tr>
<tr>
<td>Gain Control</td>
<td>Automatic</td>
</tr>
<tr>
<td>S/N Ratio</td>
<td>45 dB</td>
</tr>
<tr>
<td>WDR</td>
<td>Yes</td>
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</table>

Optics Lens

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Megapixel</td>
<td>Yes</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Yes (with removable IR-cut filter)</td>
</tr>
<tr>
<td>Lens Type</td>
<td>Fixed</td>
</tr>
<tr>
<td>Focal Length</td>
<td>1.32 mm</td>
</tr>
<tr>
<td>Maximum Aperture</td>
<td>F/2.0</td>
</tr>
<tr>
<td>Mount</td>
<td>M12, Pitch 0.5 mm</td>
</tr>
<tr>
<td>Image Format</td>
<td>2.5”</td>
</tr>
<tr>
<td>Horizontal FOV</td>
<td>180°</td>
</tr>
</tbody>
</table>
## Optics Lens
- Optics Lens
- Zoom: Fixed
- Iris: Fixed

## Operation
### Video Compression
- H.264, MJPEG
### Video Streaming
- Dual streams from H.264 or MJPEG
### Frame Rate
- 10 fps at 2560 x 1920, 15 fps at 2048 x 1944, 1440 x 1376, 1280 x 1200 (60/50 Hz)
  - *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

## Video Resolution
### Main Stream
- 2560 x 1920 (Default), 2048 x 1944, 1440 x 1376, 1280 x 1200
### Sub Stream
- 640 x 480

## Network
### Interface
- 10/100 Ethernet
### Protocol
- FTP, DHCP, DynDNS, HTTP, HTTPS, NTP, ONVIF (Profile S), PSIA, QoS (DSCP), RTSP, SMTP, SNMP, TCP, UDP, UPnP

## Mechanical
### Temperature Detector
- Yes
### Connectors
- **Power**: 2-pin terminal block, PoE
- **Ethernet**: Ethernet (10/100 Base-T), RJ-4S 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

## General
### 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
- 3.6 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")
- **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, RCM, RoHS compliant

## Power over Ethernet
### PoE Standard
- PoE (IEEE 802.3af Power over Ethernet / PD)
### PoE Power Supply Type
- End-Span
### PoE Power Output
- Per Port 48V DC, 350mA. Max. 15.4 watts

## 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, 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-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:
1. Specifications are subject to change without notice.
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.

Packing List
1. Fisheye Camera
2. Camera Cover (Hard Ceiling Mount)
3. Screw (Hard Ceiling Mount) x 3
4. Plastic Screw Anchor x 3
5. Camera Cover (In-Ceiling Mount)
6. Screw (In-Ceiling Mount) x 3
7. Support Bracket x 3
8. Torx Wrench
9. Waterproof Rubber
10. Power Cable
11. Terminal Block x 2
12. Installation Sticker
13. Silica Gel Bag and Adhesive Tape x 2
14. Cable Connector
15. Power Adapter
16. GV-IPCAM H.264 Software DVD
17. GV-Fisheye IP Dome Hardware Installation Guide
18. GV-NVR Software DVD
19. Warranty Card

Note: The power adapter can be excluded upon request.
## Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Name</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>GV-Mount100</td>
<td>Straight Tube and Junction Box Kit</td>
<td>Dimensions: 200 x 170 x 257.5 mm (7.9” x 6.7” x 10.1”)</td>
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<tr>
<td></td>
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<td>Weight: 3.17 kg (6.99 lb)</td>
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<tr>
<td>GV-Mount101</td>
<td>Straight Tube Kit</td>
<td>Dimensions: 219 x 125 x 332 mm (8.6” x 4.9” x 13.1”)</td>
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<td></td>
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<td>Weight: 1.8 kg (3.97 lb)</td>
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<tr>
<td>GV-Mount200</td>
<td>Wall Pendant Tube</td>
<td>Dimensions: 225 x 140 x 250 mm (8.9” x 5.5” x 9.8”)</td>
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<td></td>
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<td>Weight: 900 g (1.98 lb)</td>
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<tr>
<td>GV-Mount203</td>
<td>Wall Pendant Tube and Junction Box Kit</td>
<td>Dimensions: 315 x 195.5 x 225 mm (12.4” x 7.7” x 8.9”)</td>
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<td></td>
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<td>Weight: 2.95 kg (6.5 lb)</td>
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<tr>
<td>GV-Mount205</td>
<td>Wall Mount Bracket Kit</td>
<td>Dimensions: 126.5 x 203 x 160 mm / 5 x 8 x 6.3” (L x W x diameter)</td>
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<td></td>
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<td>Weight: 0.5 kg / 1.1 lb</td>
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<tr>
<td>GV-Mount208-2</td>
<td>Swan Neck Mount</td>
<td>Dimensions: 1043 x 519 x 256 mm (41.06 x 20.43 x 10.08”)</td>
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<td>Weight: 10.5 kg (23.15 lb)</td>
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<tr>
<td>Model No.</td>
<td>Name</td>
<td>Details</td>
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<tr>
<td>GV-Mount300</td>
<td>Convex Corner Adapter Kit</td>
<td>Dimensions: 238.6 x 409.5 mm (9.4&quot; x 16.1&quot;) Weight: 4.27 kg (9.41 lb)</td>
</tr>
<tr>
<td>GV-Mount310</td>
<td>Concave Corner Adapter Kit</td>
<td>Dimensions: 238.6 x 409.5 mm (9.4&quot; x 16.1&quot;) Weight: 4.27 kg (9.41 lb)</td>
</tr>
<tr>
<td>GV-Mount400</td>
<td>Pole Mount Bracket Kit (Ø 4&quot; ~ 6&quot;)</td>
<td>Bracket: 241 x 161 mm (9.5&quot; x 6.3&quot;) Weight: 1.70 kg (3.75 lb)</td>
</tr>
<tr>
<td>GV-Mount400</td>
<td>Pole Mount Bracket Kit (Ø 6&quot; ~ 7.5&quot;)</td>
<td>Bracket: 241 x 161 mm (9.5&quot; x 6.3&quot;) Weight: 1.70 Kg (3.75 lb)</td>
</tr>
<tr>
<td>GV-Mount702</td>
<td>Extension Tube</td>
<td>Four options are available. Dimensions: Ø 5.4 x 10 or 20 or 30 or 50 cm (Ø 2.1&quot; x 3.9&quot; or 7.9&quot; or 11.8&quot; or 19.7&quot;) 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)</td>
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<tr>
<td>GV-Mount903</td>
<td>Fisheye Dome Housing</td>
<td>Dimensions: Ø 186 x 97.5 mm (Ø 7.3&quot; x 3.8&quot;) Weight: 700 g (1.54 lb)</td>
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<tr>
<td>GV-Mount904</td>
<td>Tilting Wall Mount Bracket</td>
<td>Dimensions: Ø 159.1 x 40.5 mm (Ø 6.3&quot; x 1.6&quot;) Weight: 400 g (0.88 lb)</td>
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<tr>
<td>GV-Mount912</td>
<td>Power Box Mount Bracket</td>
<td>Dimensions: Ø 146 x 10.5 mm (Ø 5.7&quot; x 0.4&quot;) Weight: 180 g (0.4 lb)</td>
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<tr>
<td>Model No.</td>
<td>Name</td>
<td>Details</td>
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<tr>
<td>GV-PA191</td>
<td>Power over Ethernet (PoE) Adapter</td>
<td>The GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.</td>
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<td></td>
<td>Power Adapter</td>
<td>The power adapter is available in 6 regions: Argentina, Australia, Brazil, Europe, U.K and U.S.</td>
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<tr>
<td></td>
<td>GV-POE Switch</td>
<td>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.</td>
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