

## GV-FD2500 2MP H.264 Super Low Lux WDR IR Fixed IP Dome



- 1/2.8" progressive scan Super Low Lux CMOS
  - Min. illumination at 0.02 lux
  - Dual streams from H.264 and MJPEG
  - Up to 30 fps at 1920 x 1080
  - 3-axis mechanism (pan / tilt / roll)
  - Varifocal megapixel lens
  - Intelligent IR
  - IR distance up to 30 m (98.4 ft)
  - 2-way audio
  - One sensor input and alarm output
  - TV-out support
  - Built-in micro SD card slot (SD/SDHC) for local storage
  - DC 12V / AC 24V / PoE
  - Wide Dynamic Range (WDR)
  - 3D noise reduction
  - Defog
  - Motion detection
  - Tampering alarm
  - Privacy mask
  - Removable IR-cut filter for Day/Night function
  - IP address filtering
  - Supports iPhone, iPad, Android & 3GPP
  - 31 languages on Web interface
  - ONVIF (Profile S) conformant
- \* No Memory card slot & local storage function for Argentina.**

### Active Tampering Alarm

Tampered



Focus Change



Camera Shift

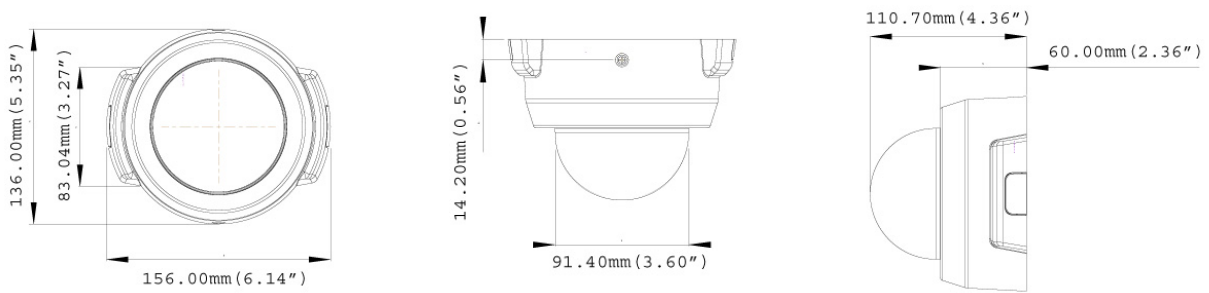


### Introduction

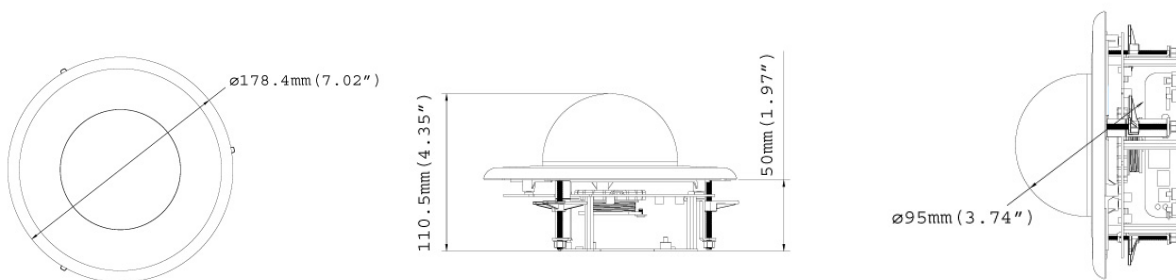
The GV-FD2500 is an indoor camera designed with 3-axis mechanism for easy and flexible installation. The camera is capable of providing a color live view in near darkness using its super low lux CMOS image sensor. The camera also supports various optional installations, including wall surface, wall corner, pole and ceiling using the GV-Mount accessories.

## Dimensions

### Hard-Ceiling Mount



### In-Ceiling Mount



## Specifications

| Camera                           |  |                 |
|----------------------------------|--|-----------------|
| Image Sensor                     | 1/2.8" progressive scan super low lux CMOS |                 |
| Picture Elements                 | 1920 (H) x 1080 (V)                        |                 |
| Minimum Illumination             | Color                                      | 0.02 Lux        |
|                                  | B/W  |                 |
|                                  | IR ON                                      | 0 Lux           |
| Shutter Speed                    | Automatic, Manual (1/5 ~ 1/8000 sec.)      |                 |
| White Balance                    | Automatic, Manual (2800K ~ 8500K)          |                 |
| Gain Control                     | Automatic                                  |                 |
| S/N Ratio                        | 52 dB                                      |                 |
| WDR                              | Yes  |                 |
| Lens                             |  |                 |
| Megapixel                        | Yes  |                 |
| Day/Night                        | Yes (with removable IR-cut filter)         |                 |
| Lens Type                        | Varifocal                                  |                 |
| Focal Length                     | 3 ~ 9 mm                                   |                 |
| Maximum Aperture                 | F/1.2                                      |                 |
| Mount                            | $\varnothing 14\text{ mm}$                 |                 |
| Image Format                     | 1/2.7"                                     |                 |
| Horizontal FOV                   | 103°~36°                                   |                 |
| Operation                        | Focus                                      | Manual (w/lock) |
|                                  | Zoom                                       | Manual (w/lock) |
|                                  | Iris                                       | DC drive        |
| Max. Torque (Focus/ Zoom Screws) | 0.049 N.m                                  |                 |
| IR LED Quantity                  | 10 IR LEDs                                 |                 |
| Max. IR Distance                 | 30 m (98.4 ft)                             |                 |
| Operation                        |  |                 |
| Video Compression                | H.264, MJPEG                               |                 |
| Video Streaming                  | Dual streams from H.264 and MJPEG          |                 |

| Operation               |  |  |
|-------------------------|--|--|
| Frame Rate              | 30 fps at 1920 x 1080<br>* The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).  |  |
| Image Setting           | Brightness, Contrast, Sharpness, Gamma, White Balance, Flicker-less, Image Orientation, Shutter Speed, Backlight Compensation, D/N Sensitivity, WDR, Defog, Super Low Lux, Denoise, Metering   |  |
| Audio Compression       | G.711, AAC (optional)  |  |
| Audio Support           | Two-Way Audio  |  |
| Sensor Input            | 1 Input (Dry Contact)  |  |
| Alarm Output            | 1 Output (200mA 5V DC)   |  |
| Video Resolution        |  |  |
| Main Stream             | 4:3  | 1280 x 960, 640 x 480, 320 x 240   |
|                         | 16:9   | 1920 x 1080, 1280 x 720, 640 x 360, 448 x 252  |
|                         | 5:4  | 1280 x 1024, 640 x 512, 320 x 256  |
| Sub Stream              | 4:3  | 640 x 480, 320 x 240   |
|                         | 16:9   | 640 x 360, 448 x 252   |
|                         | 5:4  | 640 x 512, 320 x 256   |
| Network                 |  |  |
| Interface               | 10/100M Ethernet   |  |
| Ethernet Protocol       | DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), PSIA, QoS (DSCP), RTSP, SNMP, SMTP, TCP, UDP, UPnP, 3GPP/ISMA  |  |
| Mechanical              |  |  |
| Camera Angle Adjustment | Pan  | 0° ~ 350°  |
|                         | Tilt   | 10° ~ 90°  |
|                         | Rotation   | 0° ~ 340°  |
| Temperature Detector    | Yes  |  |
| Mechanical              |  |  |
| Connectors              | Power  | 2-pin terminal block, PoE  |
|                         | Ethernet   | Ethernet (10/100 Base-T), RJ-45 cable  |
|                         | Audio  | 1 In microphone phone jack, 3.5 mm (0.14")   |
|                         |  | 1 Out Stereo phone jack, 3.5 mm (0.14")  |
|                         | Digital I/O  | 3-pin terminal block, pitch 2.5 mm (0.1")  |
|                         | 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                  | BNC connector (640 x 480 resolution)   |  |
| LED Indicator           | 2 LEDs: Power, Status  |  |
| General                 |  |  |
| Environment Temperature | 0 °C ~ 50 °C (32 °F ~ 122 °F)  |  |
| Humidity                | 10% to 90% (no condensation)   |  |
| Power Source            | 12V DC / 24V AC / PoE  |  |
| Max. Power Consumption  | 12 W   |  |
| Dimensions              | ø 155 x 110 mm (6.1" x 4.33")  |  |
| Weight                  | 580 g (1.28 lb)  |  |
| Vandal Resistance       | IK7  |  |
| Regulatory              | CE, FCC, RCM, RoHS compliant   |  |
| Power over Ethernet     |  |  |
| PoE Standard            | 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, Privacy Mask, Visual Automation, Tampering Alarm, 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

|                     |  |
|---------------------|--|
| Network Storage     | GV-NVR, GV-System, GV-Backup Center, GV-Recording Server |
| Smart Device Access | GV-Eye for iOS and Android                               |
| Live Viewing        | IE, mobile phone   |
| CMS Server support  | GV-Control Center, GV-Center V2, GV-VSM                  |

### Note:







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



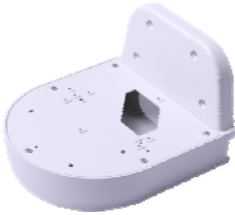




### Packing List

- |                           |                                     |
|---------------------------|-------------------------------------|
| 1. Fixed IP Dome          | 7. TV-out Wire                      |
| 2. Torx Wrench            | 8. Sticker                          |
| 3. Mounting Plate         | 9. GV-IPCAM H.264 Quick Start Guide |
| 4. Short Screw Anchor x 3 | 10. GV-IPCAM H.264 Software CD      |
| 5. Ceiling Screw x 3      | 11. GV-NVR Quick Start Guide        |
| 6. Plate Screw x 3        | 12. GV-NVR Software DVD             |

### Accessories

| Model No.   | Name                                   |  | Details  |
|-------------|--|--|--|
| GV-Mount100 | Straight Tube and Junction Box Kit     |  | Dimensions: 200 x 170 x 257.5 mm<br>(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<br>(8.6" x 4.9" x 13.1")<br>Weight: 1.8 kg (3.97 lb)    |
| GV-Mount200 | Wall Pendant Tube                      |  | Dimensions: 225 x 140 x 250 mm<br>(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<br>(12.4" x 7.7" x 8.9")<br>Weight: 2.95 kg (6.5 lb)  |

| Model No.   | Name   |  | Details  |
|-------------|--|--|--|
| GV-Mount205 | Wall Mount Bracket Kit                               |    | Dimensions:<br>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<br>(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<br>(9.4" x 16.1")<br>Weight: 4.27 kg (9.41 lb)  |
| GV-Mount400 | Pole Mount Bracket Kit<br>( $\varnothing$ 4" ~ 6")   |   | Dimensions<br>Bracket: 241 x 161 mm<br>(9.5" x 6.3")<br>Weight: 1.70 kg ( 3.75 lb)<br>Steel Strap Diameter: $\varnothing$ 4" ~ 6"  |
| GV-Mount410 | Pole Mount Bracket Kit<br>( $\varnothing$ 6" ~ 7.5") |  | Dimensions<br>Bracket: 241 x 161 mm (9.5" x 6.3")<br>Weight: 1.70 kg (3.75 lb)<br>Steel Strap Diameter: $\varnothing$ 6" ~ 7.5"  |
| GV-Mount702 | Extension Tube                                       |  | Four options are available.<br>Dimensions:<br>$\varnothing$ 5.4 x 10 or 20 or 30 or 50 cm<br>( $\varnothing$ 2.1" x 3.9" or 7.9" or 11.8" or 19.7")<br>Weight:<br>180 g or 390 g or 550 g or 800 g<br>(0.4 lb or 0.86 lb or 1.21lb or 1.76 lb) |

| Model No.     | Name   |  | Details  |
|---------------|--|--|--|
| GV-Mount900   | Wall Mount Bracket   |    | Dimensions: 154 x 108 x 50 mm<br>(6.1" x 4.3" x 2")<br>Weight: 240 g (0.53 lb)   |
| GV-Mount902   | GV-FD Series Dome Housing  |    | Dimensions: $\varnothing$ 186 x 97.5 mm<br>( $\varnothing$ 7.3" x 3.8")<br>Weight: 600 g (1.32 lb)   |
| GV-Mount909   | Wall Mount Bracket   |    | Dimensions: 170 x 150 x 110 mm<br>(6.7" x 5.9" x 4.3")<br>Weight: 610 g (1.34 lb)  |
| GV-Mount913   | Power Box Mount Bracket  |   | Dimensions: $\varnothing$ 146 x 7.5 mm<br>( $\varnothing$ 5.7" x 0.3")<br>Weight: 180 g (0.4 lb)   |
|               | Smoked Cover   |  | Dimensions:<br>$\varnothing$ 103.7 x 55 mm (4.08" x 2.16")<br>Weight: 30g (0.07 lb)<br>Vandal Resistance: IK7  |
| GV-PA191      | Power over Ethernet (PoE) Adapter  |  | The GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.  |
| GV-Relay V2   | GV-Relay V2  |  | The 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. |
| Power Adapter | Power adapters are available in 5 regions: Australia, Brazil, Europe, U.K and U.S.   |  |  |
| GV-POE Switch | 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. |  |  |