# GV-UNFE2502 2MP H.264 Super Low Lux WDR Fisheye Camera

- 1/2.8" progressive scan super low lux CMOS
- Minimum illumination at 0.02 lux
- Dual streams from H.264 and MJPEG
- Up to 30 fps at 1920 x 1080
- Megapixel lens
- Day and night function (with removable IR-cut filter)
- PoE (IEEE 802.3af)
- Ingress protection (IP67)
- Built-in micro SD card slot (SD/SDHC) for local storage
- One-way audio
- No mechanical moving parts
- 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
- Digital Object Tracking
- Virtual PTZ function
- Auto Pan function
- 3D noise reduction
- Wide Dynamic Range (WDR)
- Defog
- Motion detection
- Tampering alarm
- Privacy mask
- Text overlay
- Supports iPhone, iPad, Android & 3GPP
- 31 languages on Web interface
- ONVIF (Profile S) conformant
- Recording assigned by GV-Edge Recording Manager (Windows & Mac)
- More storage option - NAS

* No Memory card slot & local storage function for Argentina.

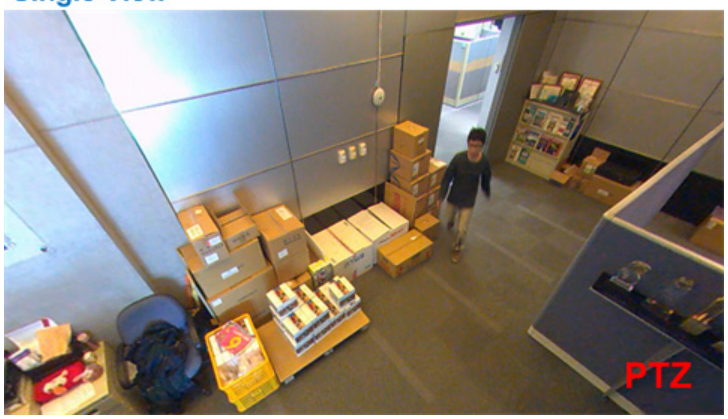
## Introduction

The Fisheye Camera is an outdoor fisheye camera that allows you to monitor all angles of a location. It consists of a main body for processing and a separate camera lens for capturing images. The compact camera lens can be installed in outdoor surveillance sites with limited space.

## Photos

### Fisheye Source Image

### Single View



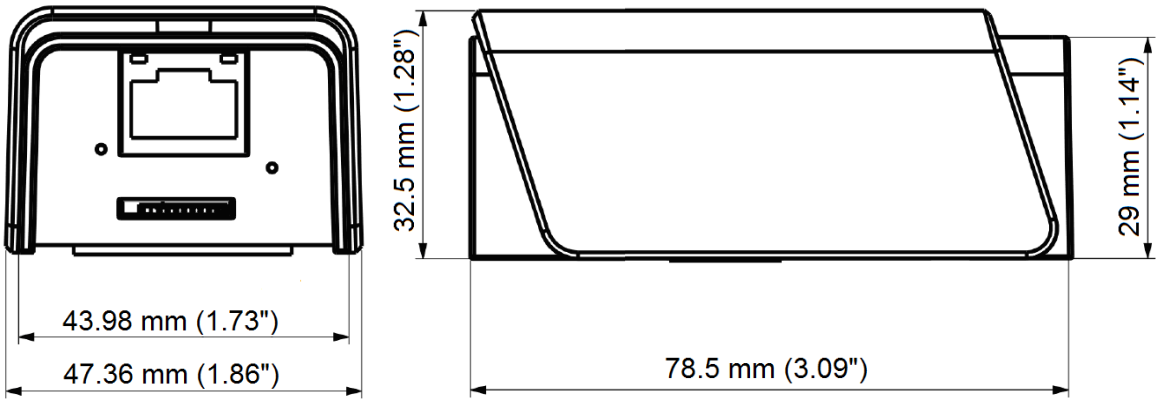

### 2 x 180° View

### 360° View

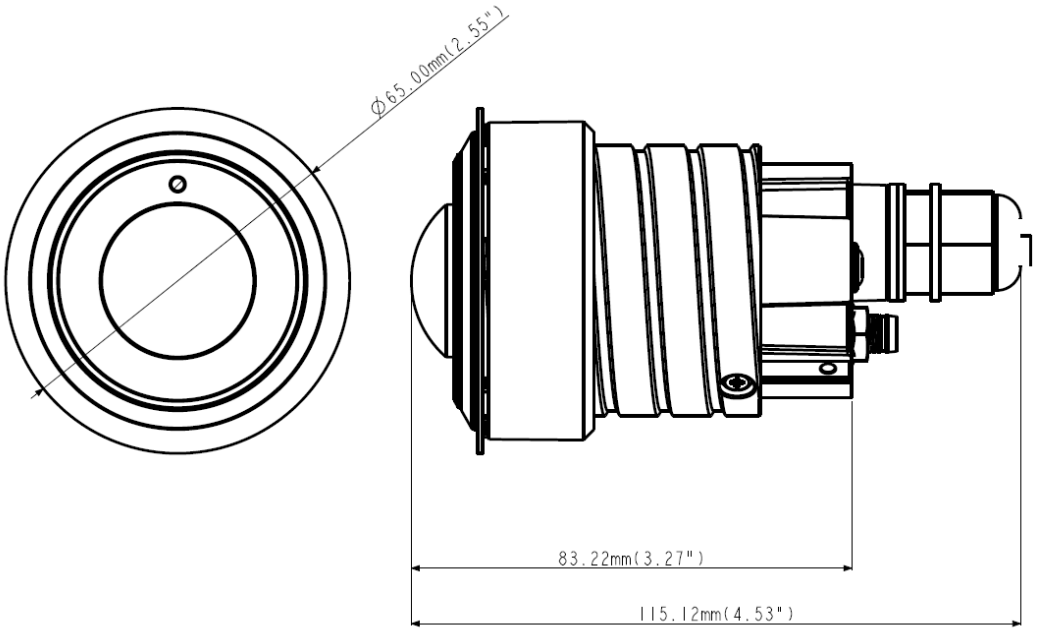
### Quad View

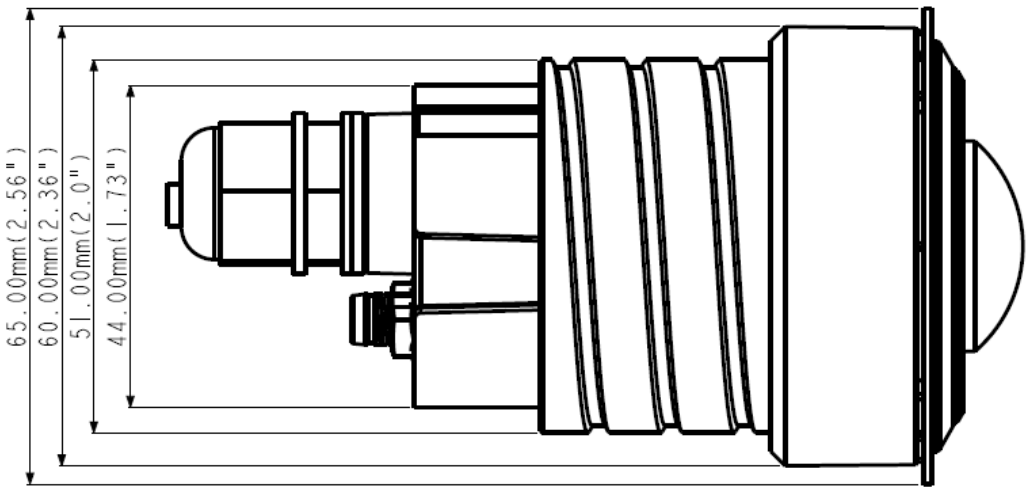
## Dimensions

- **Camera Body**




- **Camera Lens**



## 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 | |
| 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) |
| Iris | | Fixed |
| Focal Length | | 1.19 mm |
| Maximum Aperture | | F/2.0 |
| Mount | | M12 |
| Image Format | | 1/2.3" |
| Horizontal FOV | | 180° |
| Operation | Focus | Fixed |
| | Zoom | Fixed |
| | Iris | Fixed |
| **Operation** | | |
| Video Compression | | H.264, MJPEG |
| Video Streaming | | Dual streams from H.264 and MJPEG |
| Frame Rate | | 30 fps at 1920 x 1080 (60/50 Hz)<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, Backlight Compensation, D/N Sensitivity, WDR, Defog, Denoise, Metering |
| Audio Compression | | AAC 32K |
| Audio Support | | One-Way Audio |
| **Video Resolution** | | |
| Main Stream | 4:3 | 1600 x 1200 (Default), 1280 x 960 |
| | 16:9 | 1920 x 1080, 1280 x 720 |
| Sub Stream | 4:3 | 640 x 480 (Default) |
| | 16:9 | 640 x 360 |
| **Network** | | |
| Interface | | 10/100M Ethernet |
| Ethernet Protocol | | DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), QoS (DSCP), RTSP, SNMP, SMTP, TCP, UDP, UPnP, 3GPP/ISMA |
| **Mechanical** | | |
| Temperature Detector | | Yes |
| Connectors | Power | PoE (IEEE 802.3af) |
| | Ethernet | RJ-45 |
| | Audio | 1 In (built-in microphone) |
| | 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. |
| | Camera Unit Connection | RJ-12 |
| LED Indicator | | 4 LEDs: Link, ACT, Camera Status, RJ-12 Status |

| | | |
|---|---|---|
| **General** | | |
| Environment Temperature | | -5 °C ~50 °C (23 °F ~ 122 °F) |
| Humidity | | 10% to 90% (no condensation) |
| Power Source | | PoE (IEEE 802.3af) |
| Max. Power Consumption | | 4.8 W |
| Dimension | Main Body | 78.5 x 47.36 x 32.5 mm (3.09" x 1.86" x 1.28") |
| | Camera Lens | Ø 65 x 115.12 mm (2.55" x 4.53") |
| Cable Length | | 1 m (3.28 ft) |
| Weight (with main body mount) | | 401 g (0.88 lb) |
| Ingress Protection | | IP67 |
| Vandal Resistance | | N/A |
| 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, Audio, Picture in Picture, Picture and Picture, Privacy Mask, 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** | | |
| Software Supported | | GV-DVR / NVR (V8.7.3.0), GV-VMS (V16.10.3.0), GV-Edge Recording Manager (V1.2.0.0), GV-Center V2 (V16.10), GV-Recording Server (V1.3.0.0), GV-Redundant / Failover Server (V1.1.0.0) |
| Smart Device Access | | GV-Eye for iOS and Android |
| Live Viewing | | IE, mobile App |
| CMS Server support | | GV-Control Center, GV-Center V2, GV-Vital Sign Monitor |

**Note:**

1. It's required to apply patch files to all the supported software mentioned above.
2. 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.
3. Specifications are subject to change without notice.

## Packing List

1. Fisheye Camera
2. Mounting Rail
3. Installation Sticker
4. Main Body Mount
5. Main Body Adhesive Tape
6. M3 Screw x 2
7. M2 Screw
8. Warning Label
9. Download Guide
10. Warranty Card

## Accessories

| Model No. | Details |
|---|---|
| GV-PA191 PoE Adapter | The GV-PA191 PoE adapter is designed to provide power and network connection to the cameras over a single Ethernet cable. |
| 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. |