

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)

January 4, 2018

More storage option - NAS

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.

GV-UNFE2502

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



Photos

Fisheye Source Image



Single View



2 x 180° View



360° View



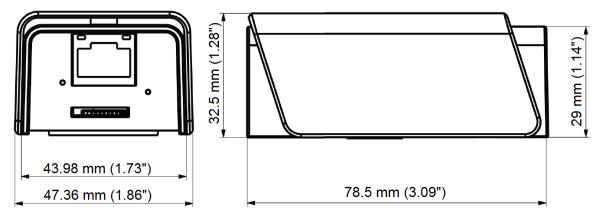
Quad View



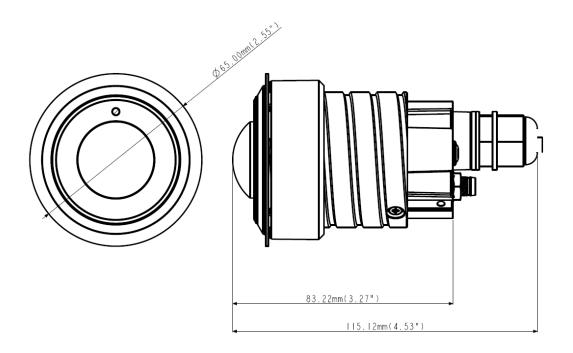


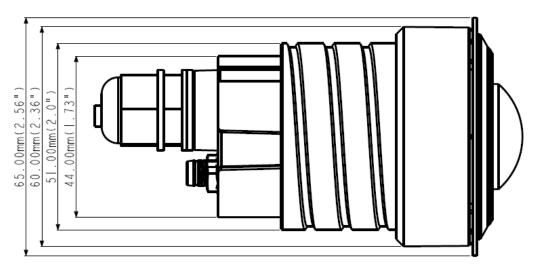
Dimensions

Camera Body



Camera Lens







Specifications

Megapixel 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 Fixed Toom Fixed Toom Fixed Operation Video Compression H.264, MJPEG Video Streaming Dual streams from H.264 and MJPEG Frame Rate "The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes). 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 Main Stream 4:3 640 x 480 (Default) 16:9 1920 x 1080, 1280 x 720 Sub Stream 4:3 640 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, UDPP, JGPP/ISMA	Camera		
Picture Elements	Image Sensor		1/2.8" progressive scan super low lux CMOS
Minimum Color Illumination ByW O.02 Lux			
Mumination	Minimum	Color	
Shutter Speed			0.02 Lux
Multie Balance	Shutter Speed	27 ***	Automatic Manual (1/5 ~ 1/8000 sec.)
Gain Control Sy/N Ratio S 25 dB WDR Yes Lens Megapixel Ves Day/Night Pics Fixed Focal Length All 1.19 mm Maximum Aperture F/2.0 Mount M12 Image Format J/2.3" Horizontal FOV 180° Operation Zoom Fixed Iris Fixed Operation Video Compression H.264, MJ/PEG Video Compression Under the There are and the performance may vary depending on the number of connections and data bitrates (different scenes). 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 200 Metwork Interface 10/100M Ethernet DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), QoS (DSCP), RTSP, SNMP, SMTP, TCP, UDP, UPnP, 3GPP/ISMA Methodical Temperature Detector Yes Audio Camera Unit Connections Alicos Stardage Ethernet Protocol Ricos Stardage Micros De card slot (SD/SDHC, SD version 2.0 only, Class 10) *SDAC and UHS-I card types are not supported. Micros De card slot (SD/SDHC, SD version 2.0 only, Class 10) *SDAC and UHS-I card types are not supported. Micros De card slot (SD/SDHC, SD version 2.0 only, Class 10) *SDAC and UHS-I card types are not supported.			
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More Megapixe Yes Megapixe Yes Day/Night Yes (with removable IR-cut filter)			
Megapixel Yes Day/Night Yes (with removable IR-cut filter) Iris Fixed Focal Length 1.19 mm Maximum Aperture Ff.20 Mount M12 Image Format 1/2.3" Horizontal FOV 180° Operation Fixed Zoom Fixed Operation Use Compression Video Compression H.264, MJPEG Video Streaming Dual streams from H.264 and MJPEG 30 fps at 1920 x 1080 (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, Backlight Compensation, D/N Sensitivity, WDR, Defog, Denoise, Metering Audio Compression AAC 32K Audio Support One-Way Audio Video Resolution 4:3 Main Stream 4:3 1600 x 1200 (Default), 1280 x 720 Sub Stream 16:9 1920 x 1080, 1280 x 720 Sub Stream 10:4 4:3 640 x 480 (Default)			
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Day/Night	Lens		
Fixed			
Focal Length			
Maximum Aperture			
Maye Format 1/2.3" Horizontal FOV 180° Operation Focus Fixed Zoom Fixed Iris Fixed Operation Video Compression Video Streaming Dual streams from H.264 and MJPEG Video Streaming Dual streams from H.264 and MJPEG The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes). Frame Rate Brightness, Contrast, Saturation, Sharpness, Gamma, White Balance, Flicker-less, Image Orientation, Shutter Speed, Backlight Compensation, D/N Sensitivity, WDR, Defog, Denoise, Metering Audio Compression Ack 32K AAC 32K Audio Support One-Way Audio AAC 32K Video Resolution Main Stream 4:3 1600 x 1200 (Default), 1280 x 960 Sub Stream 4:3 640 x 480 (Default) 16:9 640 x 360 Network Interface 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 Power Ethernet RJ-45 Audio 1 In (built-in microphone) Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) *5DXC and UHS-I card types are not supported. <td></td> <td></td> <td></td>			
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Horizontal FOV			
Pocus Fixed Fix			
Disagration Fixed Iris Fixed	Horizontal FOV	Feere	
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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)*	Operation		
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Dual streams from H.264 and MJPEG	Operation		
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Image Setting Orientation, Shutter Speed, Backlight Compensation, D/N Sensitivity, WDR, Defog, Denoise, Metering Audio Compression	Frame Rate		* The frame rate and the performance may vary depending on the number of connections
Audio Compression AAC 32K Audio Support One-Way Audio Video Resolution Main Stream 4:3 1600 x 1200 (Default), 1280 x 960 Sub Stream 4:3 640 x 480 (Default) Sub Stream 4:3 640 x 480 (Default) 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 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) * SDXC and UHS-I card types are not supported. RJ-12	Image Setting		Orientation, Shutter Speed, Backlight Compensation, D/N Sensitivity, WDR, Defog, Denoise,
Audio Support One-Way Audio Video Resolution Main Stream 4:3 1600 x 1200 (Default), 1280 x 960 Bub Stream 4:3 640 x 480 (Default) 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 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) * SDXC and UHS-I card types are not supported. Camera Unit Connection RJ-12	Audio Compression		
Video Resolution Main Stream 4:3 16:00 x 1200 (Default), 1280 x 960 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 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) *SDXC and UHS-I card types are not supported. Camera Unit Connection RJ-12	·		One-Way Audio
Main Stream 16:9 1920 x 1080, 1280 x 720 4:3 640 x 480 (Default) 16:9 640 x 360 Network Interface Interf	Video Resolution		
Main Stream 16:9 1920 x 1080, 1280 x 720 4:3 640 x 480 (Default) 16:9 640 x 360 Network Interface Interf		4:3	1600 x 1200 (Default), 1280 x 960
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 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) * SDXC and UHS-I card types are not supported. RJ-12	Main Stream	16:9	
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 Power PoE (IEEE 802.3af) Ethernet RJ-45 Audio 1 In (built-in microphone) Local Storage Camera Unit Connection RJ-12 RJ-12	C C	4:3	640 x 480 (Default)
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 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) * SDXC and UHS-I card types are not supported. RJ-12	Sub Stream	16:9	640 x 360
DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), QoS (DSCP), RTSP, SNMP, SMTP, TCP, UDP, UPnP, 3GPP/ISMA Mechanical Temperature Detector Yes 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) * SDXC and UHS-I card types are not supported. RJ-12	Network		
DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), QoS (DSCP), RTSP, SNMP, SMTP, TCP, UDP, UPnP, 3GPP/ISMA Mechanical Temperature Detector Yes 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) * SDXC and UHS-I card types are not supported. RJ-12	Interface		10/100M Ethernet
Temperature Detector Yes 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) * SDXC and UHS-I card types are not supported. RJ-12 RJ-12			DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), QoS (DSCP), RTSP, SNMP, SMTP,
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Connectors Ethernet RJ-45 Audio 1 In (built-in microphone) Local Storage Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) * SDXC and UHS-I card types are not supported. Camera Unit Connection RJ-12	Connectors		
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Connectors Local Storage Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) * SDXC and UHS-I card types are not supported. Camera Unit Connection RJ-12			1 In (built-in microphone)
Connection RJ-12		Local Storage	Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10)
LED Indicator 4 LEDs: Link, ACT, Camera Status, RJ-12 Status			RJ-12
	LED Indicator		4 LEDs: Link, ACT, Camera Status, RJ-12 Status

GV-UNFE2502 January 4, 2018

- 4 -



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 Etherne	t	
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 suppor	rt	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

- 5 -



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.

- 6 -