GV-FE4301 4MP H.264 WDR Fisheye IP Camera

Introduction

The GV-FE4301 is a fisheye camera that allows you to monitor all angles of a location using just one camera. The distorted hemispherical image of the fisheye camera will be converted into the 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 using an IE browser. In addition, the GV-FE4301 seamlessly integrates with the GV-System, providing advanced monitoring and video management features.

The GV-Fisheye IP Camera is designed to be mounted on the ceiling, wall or ground. There are two ways to mount the GV-FE4301 on the ceiling, Hard Ceiling Mount and In-Ceiling Mount. In-Ceiling Mount allows the GV-FE4301 to be mounted into the ceiling, revealing a small portion of the camera.

Key Features

- 4 MP progressive scan CMOS
- Dual streams from H.264 and MJPEG
- Electronic day and night function
- Wide Dynamic Range (WDR)
- Provides 360° and 180° panorama view
- No mechanical moving parts
- Built-in micro SD card slot (SD/SDHC) for local storage
- Recording assigned by GV-Edge Recording Manager (Windows, Mac version)
- Digital Object Tracking
- Virtual PTZ function
- Auto Pan function
- Object tracking
- Built-in Web server for monitoring through IE browser
- Different angle of view controllable by multiple users at the same time
- Up to 15 fps at 2048 x 1944
- Built-in microphone and speaker
- One sensor input and alarm output
- 12V DC / 24V AC / PoE (IEEE 802.3af)
- Playback from any view angle and zoom level
- 2D noise reduction
- Privacy mask to cover parts of the image that should not be viewable
- Visual automation
- Tampering alarm
- Text overlay
- 31 languages on web interface

- ONVIF (Profile S) conformant
- More storage option - NAS

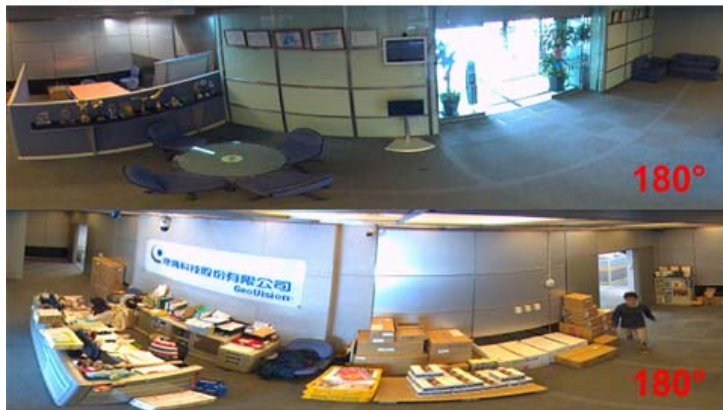* No Memory Card Slot & local storage function for Argentina.

Photos

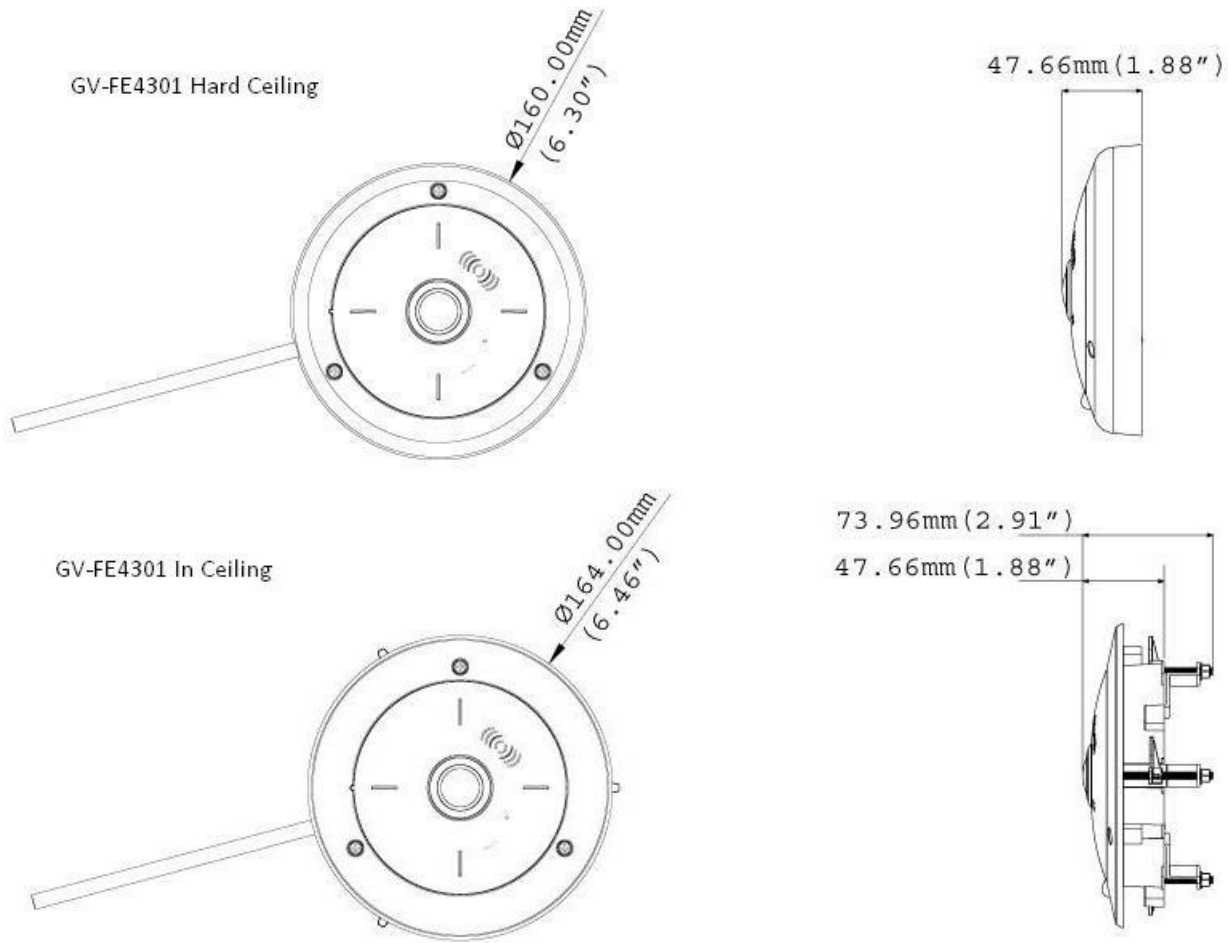Fisheye Source Image

Single View

2 x 180° View

360° View

Quad View

Dimensions

GV-FE4301 Hard Ceiling

Ø160.00mm (6.30")

47.66mm (1.88")

GV-FE4301 In Ceiling

Ø164.00mm (6.46")

73.96mm (2.91")
47.66mm (1.88")

Specifications

System Requirements		
OS	32-bit	Windows XP / Vista / 7 / Server 2008
	64-bit	Windows 7 / Server 2008
GV-System Version		GV-System V8.5.6 with patch or later
Browser		Internet Explorer 7.x or later
Camera		
Image Sensor		1/2.5" progressive scan CMOS
Picture Elements		2048 (H) x 1944 (V), 1440(H) x 1376 (V)
Minimum Illumination	Color	0.15 Lux
	B/W	0.10 Lux
Shutter Speed		Automatic, Manual (1/5 – 1/8000 sec.)
White Balance		Automatic, Manual (2800K – 8500K)
Gain Control		Automatic
S/N Ratio		45 dB
Optics Lens		
Megapixel		Yes
Day/Night		Yes (electronic)
Iris		Fixed Iris
Focal Length		1.05 mm
Aperture		F/2.8
Mount		M12, Pitch 0.5 mm
Image Format		1/2"
Operation	Focus	Fixed
	Zoom	Fixed
	Iris	Fixed

Operation	
Video Compression	H.264, MJPEG
Video Streaming	Dual streams from H.264 or MJPEG
Frame Rate	15 fps at 2048 x 1944, 1440 x 1376, 1280 x 1200 (50/60Hz) *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, Backlight Compensation, Image Orientation, Shutter Speed, Day / Night, WDR, Defog, Denoise, Metering
Audio Compression	G.711, AAC (optional)
Audio Support	Two-Way Audio
Sensor Input	1 Digital Input (Dry Contact)
Alarm Output	1 Digital Output

Video Resolution	
Main Stream	2048 x 1944 (Default), 1440 x 1376, 1280 x 1200
Sub Stream	640 x 608

Mechanical	
Lens Mounting	M12, Pitch 0.5 mm (0.02")
Temperature Detector	Yes

Mechanical		
Connectors	Power	Terminal block (3 pin), PoE
	Ethernet	Ethernet (10/100BaseT[X]), RJ-45 Connector
	Audio	Built-in microphone and speaker
	Digital I/O	I/O Wire
	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		
Environment 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		5 W
Dimension	Camera Body — Hard-Ceiling Mount	ø 160 x 47.66 mm (6.30" x 1.88")
	Camera Body — In-Ceiling Mount	ø 164 x 47.66 mm (6.46" x 1.88")
	Cable Length	1 m (3.28 ft.)
	Cable Diameter	ø 8 mm (0.31")
	Maximum Connector Diameter	ø 28.5 mm (1.12")
Weight		650 g (1.43 lb)
Regulatory		CE, FCC, RCM, RoHS compliant

Power over Ethernet	
PoE Standard	PoE (IEEE 802.3af Power over Ethernet / PSE)
PoE Power Supply Type	End-Span
PoE Power Output	Per Port 48V DC, 350 mA. 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, Auto Pan Function, Virtual PTZ, Motion Detection, Wide Angle Lens Dewarping, 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-System (GV-DVR/NVR), GV-Backup Center, GV-Recording Server, GV-VMS
Live Viewing	IE , mobile phone
CMS Server Support	GV-Control Center, GV-Center V2, GV-Vital Sign Monitor

Note:

1. Specifications are subject to change without notice.
2. 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.
   - 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. 3-Pin or 2-Pin Terminal Block
10. DC 12V Power Adapter
11. Installation Sticker
12. GV-IPCAM H.264 Software DVD
13. GV-NVR Software DVD
14. Warranty Card

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") 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") Weight: 1.8 kg (3.97 lb)
GV-Mount200	Wall Pendant Tube		Dimensions: 225 x 140 x 250 mm (8.9" x 5.5" x 9.8") Weight: 900 g (1.98 lb)

Model No.	Name		Details
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") 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" (L x W x diameter) 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") 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") 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") Weight: 1.70 kg (3.75 lb) 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") Weight: 1.70 kg (3.75 lb) Steel Strap Diameter: Ø 6" ~ 7.5"
GV-Mount702	Extension Tube		**Four** options are available. Dimensions: Ø 5.4 x 10 or 20 or 30 or 50 cm (Ø 2.1" x 3.9" or 7.9" or 11.8" or 19.7") Weight: 180 g or 390 g or 550 g or 800 g (0.4 lb or 0.86 lb or 1.21lb or 1.76 lb)
GV-Mount903	Fisheye Dome Housing		Dimensions: Ø 186 x 97.5 mm (Ø 7.3" x 3.8") Weight: 700 g (1.54 lb)

Model No.	Name		Details
GV-Mount904	Tilting Wall Mount Bracket		Dimensions: Ø 159.1 x 40.5 mm (Ø 6.3" x 1.6") Weight: 400 g (0.88 lb)
GV-Mount912	Power Box Mount Bracket		Dimensions: Ø 146 x 10.5 mm (Ø 5.7'' x 0.4'') Weight: 180 g (0.4 lb)
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.
Power Adapter			Contact your sales representative for the countries and areas supported. * This item does not include a power cord.
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.
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.