

# **Quick Start Guide**

## **GV-Fisheye IP Camera**



Thank you for purchasing GV-Fisheye IP Camera. This guide is designed to assist the new user in getting immediate results from the GV-Fisheye IP Camera. For advanced information on how to use the GV-Fisheye IP Camera, please refer to *GV-Fisheye IP Camera User's Manual* online.

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Note: No memory card slot or local storage function for Argentina.

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### **Naming and Definition**

GV-DVR / NVRGeoVision Analog and Digital Video Recording Software. The GV-DVR also refers to GV-Multicam System, or GV-Hybrid	
GV-VMS	GeoVision Video Management System for IP cameras.

### Note for Connecting to GV-DVR / NVR / GV-VMS

The GV-Fisheye IP Camera is designed to work with GV-DVR / NVR / VMS, a video management system. Note the following when the camera is connected to GV-DVR / NVR / VMS:

- 1. By default, the images are recorded to the memory card inserted in the GV-Fisheye IP Camera.
- Once the camera is connected to the GV-DVR / NVR / VMS, the resolution set on the GV-DVR / NVR / VMS will override the resolution set on the camera's Web interface. You can only change the resolution settings through the Web interface when the connection to the GV-DVR / NVR / VMS is interrupted.

### Caution

This caution is only for GV-EFER3700-W.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation

### **Note for Recording**

- 1. By default, the images are recorded to the memory card inserted in the GV-Fisheye IP Camera. Make sure the **Write recording data into local storage** option is enabled. If this option is disabled, the camera will stop recording to the memory card while the live view is accessed through Web browsers or other applications. For details, see *Video Settings*, *Administrator* Chapter, *GV-Fisheye IP Camera User's Manual* on the Software DVD.
- 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.
  - 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.

### Note for USB Storage and WiFi Adapter

Mind the following limitations and requirements for using USB storage and GV-WiFi Adapter V2:

- 1. The USB hard drive must be of 2.5" or 3.5", version 2.0 or above.
- 2. The USB hard drive's storage capacity must not exceed 2TB.
- 3. USB flash drives and USB hubs are not supported.
- 4. External power supply is required for the USB hard drive.
- 5. To connect a GV-WiFi Adapter V2, make sure it is connected before the camera is powered on.

### **Note for Installing Camera Outdoor**

When installing GV-FER outdoor models, be sure that:

1. The camera is set up above the junction box to prevent water from entering the camera along the cables.



2. Any PoE, power, audio and I/O cables are waterproofed using waterproof silicon rubber or the like.



3. The screws are tightened and the cover is in place after opening the camera cover.



4. An operating IR LED ring may reach high temperatures of up to 60°C (140°F). Disconnect the power supply and allow the IR LED ring to cool down before handling the device.



5. The silica gel bag loses it effectiveness when the dry camera is opened. To prevent the lens from fogging up, use the supplied adhesive tap and replace the silica gel bag every time you open the camera, and conceal the gel bag in camera within 2 minutes of exposing to open air.

### **Optional Accessories**

Optional devices can expand the capabilities and versatility of your GV-Fisheye Camera. Contact your dealer for more information.

Name	Details
<b>GV-PA191</b> 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-Mount Accessories	The GV-Mount Accessories provides a comprehensive lineup of accessories for installation on ceiling, wall and pole. For details, see <i>GV-Mount Accessories Installation Guide</i> on the software DVD.
GV-WiFi Adapter V2	The GV-WiFi Adapter V2 is a plug-and-play device that provides WiFi connectivity to GV-IP Cameras through a mini USB port. This product complies with IEEE 802.11 b/g/n (Draft 3.0) standards for wireless networking. <b>Note</b> : GV-FER12203 does not currently support GV-WiFi Adapter 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.
GV-POE Switch (only for GV-FER5700 / 12203 / EFER3700 / EFER3700-W)	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.
Power Adapter for GV-IR LED Ring	Contact your sales representative for the countries and areas supported.

### 1. Introduction

Welcome to the *GV-Fisheye IP Camera Quick Start Guide*. In the following sections, you will learn the basic installations and configurations of the GV-Fisheye IP Cameras listed below. For a detailed user manual, see the *GV-Fisheye IP Camera User's Manual* on the GV-Fisheye IP Camera Software DVD.

**Note:** Only GV-FER3402 / 3403 / 5302 / 5303 / 5700 / 12203, GV-EFER3700 / EFER3700-W, and GV-UNFE2503 / 2502 are for outdoor use.

#### 1.1 Packing List

#### GV-FE2301 / 4301

• Fisheye Camera



Camera Cover (Hard Ceiling Mount)



• Screw (Hard Ceiling Mount) x 3



Torx Wrench



- Installation Sticker
- For GV-FE2301 / 4301 only:
  - 3-Pin or 2-Pin Terminal Block
  - DC 12V Power Adapter
- GV-IPCAM H.264 Software DVD
- GV-NVR Software DVD
- Warranty Card

• Support Bracket x 3



• Camera Cover (In-Ceiling Mount)



• Screw (In-Ceiling Mount) x 3



• Plastic Screw Anchor x 3



#### GV-FE3402 / 5302 and GV-FE3403 / 5303

• Fisheye Camera



• Camera Cover (Hard Ceiling Mount)



• Screw (Hard Ceiling Mount) x 3



Torx Wrench



• Mini USB Extension Cable



• Support Bracket x 3



• Camera Cover (In-Ceiling Mount)





• Plastic Screw Anchor x 3



 IR LED Ring (GV-FE3403 / 5303 only)



PoE Converter set (including 1 module, 1 DC Power Y-cable, 1 RJ-45 cable and 3 screws) (GV-FE3403 / 5303 only)







Installation Sticker



- Power Adapter
- GV-IPCAM H.264 Software DVD
- GV-NVR Software DVD
- GV-Fisheye IP Dome Hardware Installation Guide
- Warranty Card

Note: The power adapter can be excluded upon request.

#### GV-FER3402 / 5302 and GV-FER3403 / 5303

• Fisheye Camera



• Camera Cover (Hard Ceiling Mount)



• Screw (Hard Ceiling Mount) x 3



Torx Wrench



• IR LED Ring (GV-FER3403 / 5303 only)



• Support Bracket x 3



• Camera Cover (In-Ceiling Mount)



• Screw (In-Ceiling Mount) x 3



• Plastic Screw Anchor x 3



• Waterproof Rubber



Power Cable



 IR Power Adapter (DC 12V, 3.5A, GV-FER3403 / 5303 only)



- Silica Gel Bag and Adhesive Tape x 2
- Power Adapter (DV 12V, 1.25A)
- GV-IPCAM H.264 Software DVD
- GV-NVR Software DVD
- GV-Fisheye IP Dome Hardware Installation Guide
- Warranty Card

Note: The power adapter (DC 12V, 1.25A) can be excluded upon request.

• Terminal Block x 2



Installation Sticker



Cable Connector

#### GV-EFER3700 / EFER3700-W

• H.265 Fisheye Camera



• Screw x 3



• Silica Gel Bag x 2



• Installation Sticker



- GV-IPCAM Software DVD
- GV-Software DVD
- Warranty Card

• Torx Wrench



• Screw Anchor x 3



• Terminal Block (3-pin)



• Power Adapter (only for GV-EFER3700-W)

#### GV-FER5700 / 12203

• Fisheye Camera



• Plate Screw x 3



• Torx Wrench



• Data Cable



• Installation Sticker



• Silica Gel Bag x 2



- Power Adapter (only for GV-FER12203)
- GV-IPCAM Software DVD
- GV-Software DVD
- Warranty Card

Back Plate



• Plastic Screw Anchor x 3



• RJ-45 Connector



Terminal Block



• Ruler



Door-Plug



Note: The power adapter can be excluded upon request.

#### GV-UNFE2503 / 2502

• GV-UNFE2503



GV-UNFE2502



• Main Body Adhesive Tape



M2 Screw



- Warning Label
- GV-NVR Software DVD
- Mounting Rail (for GV-UNFE2502)



Installation Sticker



• Installation Sticker (for GV-UNFE2502)



• Main Body Mount



• M3 Screw x 2



- GV-IPCAM H.264 Software DVD
- Warranty Card

#### 1.2 Overview

#### GV-FE2301 / 4301

To access the Default button, LED indicators and micro SD card slot, unscrew the screws indicated below and then remove the camera cover.



GV-FE2301 / 4301

You can now access the Load Default button, LED indicators, and the micro SD card slot.

#### GV-FE2301 / 4301:



No.	Name	Function
1	Lens	Receives image inputs.
2	Speaker	Talks to the surveillance area from the local computer.
3	Microphone	Receives the sound from the camera.
4	Default Button	Resets all configurations to default factory settings. See 7. Restoring to Factory Default in the Quick Start Guide.
5	Micro SD Card Slot	Inserts a micro SD / SDHC memory card to store recorded data.
6	Network status LED	Indicates the network status.
7	Power status LED	Indicates whether the camera is powered on or off.
8	System status LED	Indicates whether the system is booted successfully or not.
Note: SDXC and UHS-I card types are not supported.		

### **GeoUision**

#### GV-FE3402 / 3403 / 5302 / 5303



No.	Name	Function
1.	Lens	Receives image inputs.
2.	Speaker	Talks to the surveillance area from the local computer.
3.	Microphone	Receives the sound from the camera.
4.	Status LED	Indicates whether the device is booted successfully or not.
5.	LAN / PoE	Connects to a 10/100 Ethernet or PoE.
6.	Terminal Block	Connects to power.
7.	Default Button	Resets all configurations to default factory settings. See 7. Restoring to Factory Default in the Quick Start Guide.
8.	Audio Out	Connects to an external speaker for broadcast.
9.	Micro SD Card Slot	Inserts a micro SD / SDHC memory card to store recorded data.
10.	Mini USB Slot	Connects to a GV-WiFi Adapter V2 or a USB hard drive for external storage.
Note: SDXC and UHS-I card types are not supported.		

#### GV-FER3402 / 3403 / 5302 / 5303





No.	Name	Function
1.	Lens	Receives image inputs.
2.	Speaker	Talks to the surveillance area from the local computer.
3.	Microphone	Receives the sound from the camera.
4.	LEDs	See the LED Indicators section below for details.
5.	Default Button	Resets all configurations to default factory settings. See 7. Restoring to Factory Default in the Quick Start Guide.
6.	Micro SD Card Slot	Inserts a micro SD / SDHC memory card to store recorded data.
7.	Terminal Block	Connects to power.
Note: SDXC and UHS-I card types are not supported.		

#### **LED Indicators**



No.	Name	Function
1.	Link	Turns on when network is connected.
2.	ACT	Turns on when data are being transmitted or received.
3.	Status	Turns on when the device is ready.



**Note:** For GV-FER3402 / 3403 / 5302 / 5303, a silica gel bag is attached to the inside of the camera cover. The silica gel loses effectiveness after you open the camera cover. To prevent the lens from fogging up, it is highly recommended to replace the silica gel bag every time you open the camera. To replace the silica gel bag, use the supplied adhesive tape to attach a new silica gel bag and fasten the camera cover within 2 minutes of opening the silica gel bag package.



#### GV-EFER3700 / EFER3700-W



No.	Name	Function
1.	Status LED	Indicates whether the camera is booted successfully or not.
		Flashes when the camera is loading default settings.
2.	Power LED	Indicates whether the camera is powered on or off.
3.	Default Button	Resets all configurations to default factory settings. See 6.3 Restoring to Factory Default Settings.
4.	Lens	Receives image inputs.
5.	Micro SD Card Slot	Inserts a micro SD memory card (SD / SDHC / SDXC / UHS-I) to store recorded data. To insert the micro SD memory card, make sure the side
		with "micro SD" is facing upward.
6.	WPS button	Only for GV-EFER3700-W, connects the camera to the WiFi router wirelessly. For detailed instructions, see WPS Button below.

7.	WiFi Status LED	Flashes when the camera is mapping with the WiFi router.
8.	WiFi Power LED	Indicates whether the camera's WiFi module is powered on or off.

#### **WPS Button**

To connect the camera to the WiFi router wirelessly, follow the steps below.

- 1. After powering on the GV-EFER3700-W, make sure the WiFi Power LED is lit up.
- 2. Keep pressing the WPS button on the camera. After 5 seconds, make sure the WiFi Status LED beside the WPS button flashes.
- 3. Press the WPS button on the WiFi router.
- 4. After the WiFi Status LED stop flashing, your camera is connected to the WiFi router.

#### **GV-FER5700**



No.	Name	Function
1.	Microphone	Receives the sound from the camera.
2.	Status LED	Green light indicates the camera is powered on. During the process of loading default setting, LED stays off.
3.	Default Button	Resets all configurations to default factory settings. See 7. Restoring to Factory Default in the Quick Start Guide.
4.	Data Cable Connector	Waterproofs the data cable.
5.	Lens	Receives image inputs.
6.	Micro SD Card Slot	Inserts a micro SD memory card (SD / SDHC / SDXC / UHS-I) to store recorded data.
7.	LAN / PoE Connector	Waterproofs the Ethernet cable.
8.	LAN / PoE	Connects to a 10/100 Ethernet or PoE.
Note: A silica get bag is attached under the LAN / PoE port. The silica get loses		

**Note:** A silica gel bag is attached under the LAN / PoE port. The silica gel loses effectiveness after you open the camera cover. To prevent the lens from fogging up, it is highly recommended to replace the silica gel bag every time you open the camera. To replace the silica gel bag, use the supplied adhesive tape to attach a new silica gel bag and fasten the camera cover within 2 minutes of opening the silica gel bag package.



#### **GV-FER12203**



No.	Name	Function
1.	Microphone	Receives the sound from the camera.
2.	Status LED	Flashes when the camera is powering on and loading default settings.
3.	Data Cable Connector	Waterproofs the data cable.
4.	Lens	Receives image inputs.
5.	Micro SD Card Slot	Inserts a micro SD memory card (SD / SDHC / SDXC / UHS-I) to store recorded data.
6.	Default Button	Resets all configurations to default factory settings. See 7. Restoring to Factory Default in the Quick Start Guide.
7.	LAN / PoE Connector	Waterproofs the Ethernet cable.
8.	LAN / PoE	Connects to a 10/100/1000 Ethernet or PoE.

**Note:** A silica gel bag is attached under the LAN / PoE port. The silica gel loses effectiveness after you open the camera cover. To prevent the lens from fogging up, it is highly recommended to replace the silica gel bag every time you open the camera. To replace the silica gel bag, use the supplied adhesive tape to attach a new silica gel bag and fasten the camera cover within 2 minutes of opening the silica gel bag package.

#### GV-UNFE2503 / 2502

GV-UNFE2503



No.	Name	Function
1	Lens	Receives images.
2	Microphone	Receives sounds.
3	IR LED	Provides infrared illumination under low-light situations.
4	RJ12 Cable	Connects the camera lens and main body.
5	IR LED Power Connector	Connects the IR LED power cable.
6	Camera Ring	Fastens the camera to the desired surface.

7	RJ12 Port	Use the camera's RJ12 cable to connect the camera lens and main body.
8	RJ12 Status LED	Turns on (green) when the camera lens and main body are connected.
9	PoE	Connects to a PoE adapter.
10	Status LED	Turns on (green) when the system is ready.
11	Memory Card Slot	Inserts a micro SD card (SD/SDHC, version 2.0, Class 10) to store recording data.
12	Default Button	Restores the camera to factory default. For details, see 6.3 <i>Restoring to Factory Default Settings: GV-UNFE2503 / 2502.</i>

### 2. Installation

The fisheye camera is designed to be mounted on the ceiling, wall or ground. There are two ways to mount the camera on the ceiling, **Hard Ceiling Mount** and **In-Ceiling Mount**. Make sure the ceiling has enough strength to support the fisheye camera.

**Note:** To re-focus your camera, follow the instruction below. However, it is only recommended to re-focus your camera when the live view is blurry.

• GV-FE2301 / 4301: Loosen the indicated screw and manually adjust the focus ring with your fingers.



 GV-FE3402 / 3403 / 5302 / 5303 and GV-FER3402 / 3403 / 5302 / 5303 / 5700 / 12203: Manually adjust the focus ring with your fingers.



#### 2.1 Hard-Ceiling Mount

In this section, we introduce two types of hard-ceiling mounts: General Hard-Ceiling Mount, GV-FER5700 / 12203 and GV-EFER3700 / EFER3700-W.

#### **General Hard-Ceiling Mount**



Without IR LED Ring



#### With IR LED Ring

#### Note:

- 1. This hard-ceiling mount is not applicable to GV-FER5700 / 12203 and GV-UNFE2503 / 2502. For GV-UNFE2503 / 2502 mounting, see *2.2 In-Ceiling Mount*.
- 2. To connect wires, cables and the IR LED ring, see *3. Connecting the Camera in the Quick Start Guide*.
- Place the installation sticker on the ceiling board. The 3 red dots indicate the location of the screws. To install GV-Fisheye Camera with PoE converter (GV-FE3403 / 5303), drill the 3 holes and the rectangle block indicated as "PoE Converter"; to install GV-Fisheye Camera only with the IR LED ring (GV-FE3403 / 5303 and GV-FER3403 / 5303), drill the 3 holes indicated as "Device" and the circle indicated as "IR".





- 2. At the 3 red dots, drill a hole slightly smaller than the plastic screw anchors provided.
- 3. Insert the 3 plastic screw anchors in the drilled holes.
- 4. Secure the fisheye camera with the 3 hard ceiling mount screws provided.



5. For outdoor GV-Fisheye Cameras (GV-FER3402 / 3403 / 5302 / 5303), install the supplied cable connector to waterproof the cable. You should have 2 components:



- A. Prepare an internet cable with the RJ-45 connector on one end only.
- B. Connect the Internet cable to the camera data cable.
- C. Slide in the components through the end of the Internet cable without RJ-45 connector as shown below.



D. Move the components toward the RJ-45 connector, secure item 1 to the Rubber Seal Ring of the camera data cable and secure item 2 to item 1 tightly.



**IMPORTANT:** Item 1 must be secured tightly to waterproof the cable.

6. For GV-Fisheye Camera that does not come with an IR LED ring, place the camera cover (for hard ceiling mount) on top of the camera and tighten the screws with the supplied torx wrench.



- 7. For GV-Fisheye Camera with an IR LED ring, follow the steps below to secure the IR LED ring to the camera.
  - A. Secure the safety lock to the camera. Then secure the camera cover.



B. Place the IR LED ring on top of the camera and tighten the screws with the torx wrench provided.



**Caution:** An operating IR LED ring may reach high temperatures. Disconnect the power supply and allow the IR LED ring to cool down before handling the device.
#### GV-FER5700 / 12203



- 1. Paste the installation sticker to the ceiling board.
- 2. At the 3 dots, drill a hole slightly smaller than the plastic screw anchors provided.



- 3. Insert the 3 plastic screw anchors in the drilled holes.
- 4. Secure the back plate onto the ceiling board with the 3 screws provided. If you want to thread the camera cables through the ceiling board, you can cut a cable opening as shown below.





5. Open the camera cover by unscrewing the indicated screws.



- 6. Connect the Ethernet cable.
  - a. Unplug the LAN / PoE connector and prepare an Ethernet cable with only one RJ-45 connector.



b. Thread the Ethernet cable through the opening into the camera and through the plug and cap as shown below. Use the supplied ruler to make sure the length of the cable from the opening to the end of the cable is about 10 cm.



- c. Insert the plug into the opening and tighten the cap.
- d. Attach the supplied RJ-45 connector to the Ethernet cable, and plug the connector into the LAN / PoE port.

e. Loosen the screw on the cable holder and thread the cable under the cable holder.



- 7. Connect the supplied data cable if needed.
  - a. Unscrew the hexagon washer on the data cable opening.



b. Thread the data cable through the black rubber ring, and then through the opening into the camera.





c. Slide the hexagon washer through the cable, and then tighten the washer.



d. Plug the pins of the cable to the camera as shown below.



8. Secure the camera to the back plate by tightening the 4 screws as shown below. The cables can be threaded through the cable opening on the side or through the ceiling board.



9. Secure the camera cover and tighten the 4 screws.

#### GV-EFER3700 / EFER3700-W



- 1. Remove the back plate.
- 2. Paste the installation sticker to the ceiling board.
- 3. Drill holes in the indicated areas on the installation sticker.



- 4. Insert the 2 screw anchors in the drilled holes.
- 5. Secure the back plate onto the ceiling board with the 2 screws provided. If you want to thread the camera cables through the ceiling board, you can cut a cable opening as shown below. Make sure to cut the cable opening slightly larger than the RJ-45 plug of the camera cable.





6. Open the camera cover by unscrewing the indicated screws.



 Secure the camera to the back plate by tightening the 4 screws as shown below. The cables can be threaded through the cable opening on the side or through the ceiling board.



- 8. Secure the camera cover and tighten the 4 screws.
- 9. Connect the camera cables. For details, refer to 3. *Connecting the Camera* in the *Quick Start Guide*.

#### Waterproofing the Cable

Waterproof the Ethernet cable of GV-EFER3700 / EFER3700-W by using the supplied waterproof rubber set.

1. Insert the waterproof components through the Ethernet cable as shown below.



2. Insert the cable into the RJ-45 plug.



3. Assemble the waterproof rubber set.



### 2.2 In-Ceiling Mount

In this section, we introduce two types of in-ceiling mounts: General In-Ceiling Mount and GV-UNFE2503 / 2502.

### **General In-Ceiling Mount**

In-Ceiling Mount allows the GV-Fisheye IP Camera to be mounted into the ceiling, revealing a small portion of the camera. In-Ceiling Mount requires the ceiling board to be between 0.5 - 3.0 cm (0.2 - 1.18 in).



**Note:** This in-ceiling mount is not applicable to GV-UNFE2502 and the models with IR LED ring (GV-FE3403 / 5303 and GV-FER3403 / 5303), GV-FER5700 / 12203 and GV-UNFE2503.

 Place the installation sticker on the ceiling board, and cut the circle part out of the ceiling. To install GV-FE3402 / 5302 and GV-FER3402 / 5302, drill the 3 holes indicated as "Device".





2. Align the 3 support brackets with the holes on the back of the camera and secure using the in-ceiling mount screws provided.



- 3. For outdoor GV-Fisheye Cameras (GV-FER3402 / 5302), install the supplied cable connector to waterproof the cable. See to step 5 in *2.1 Hard Ceiling Mount* for details.
- 4. Place the fisheye camera into the ceiling opening.



5. On the back side, make sure the black plastic clips are slightly above the ceiling board and pointing outward.



6. From the front side of the camera, tighten the screws.



- 7. Connect the camera with power, network and other wires. For details, see *3. Connecting the Camera*.
- 8. Place the camera cover for in-ceiling mount on top of the camera and tighten the 3 screws or just put on the in-ceiling cover if it does not contain screws.



#### GV-UNFE2503 / 2502

The GV-UNFE2503 / 2502 is designed for outdoors. You can install the camera lens behind a ceiling. For GV-UNFE2502, you can also install the camera lens behind a wall.



**Note:** It is recommended to have the camera lens installed behind a ceiling board with the thickness between 3 mm to 30 mm.

- 1. Paste the installation sticker on the ceiling or the wall where you want to install the camera lens.
- 2. Drill holes according to the installation sticker.



Note: Hole no. 2 is the top of the camera view.

3. Using the 2 holes / 1 hole as the starting position, drill or cut out the shape of the template sticker with the tool of your choice.



4. Only for GV-UNFE2503, remove the IR LED power cable from the camera lens by rotating the silver ring.



5. Remove the camera ring from the camera lens by rotating the ring.



GV-UNFE2503

camera ring GV-UNFE2502

**Note:** You must remove the IR LED power cable and the camera ring in order to secure the camera lens to the desired surface.

6. Only for GV-UNFE2502, assemble the mounting rail to the camera lens.



7. Insert the camera lens into the wall or ceiling.



8. Assemble the camera ring to the camera lens by rotating the ring. Adjust the position of the lens before fully securing the ring.



Fasten the Camera Ring

Adjust the lens

Note: The side of the camera ring with the protruding notches must face the wall or ceiling.



- 9. Only for GV-UNFE2503, connect the IR LED cable to the camera lens. Rotate the silver ring to fasten the cable.
- 10. Place the main body mount where you want to install it, and secure the mount using one of the methods below.
  - Insert and tighten the two supplied M3 screws.



• Paste the main body adhesive tape on the bottom side of the main body mount.



11. Align the main body with the mount as shown below and secure with the supplied M2 screw.



- 12. Connect the camera lens and the main body with the RJ12 cable.
- 13. Connect the main body to the network and supply power via the PoE cable.



### 2.3 Wall Mount and Ground Mount

To mount the camera on a wall, follow the instructions in *2.1 Hard Ceiling Mount*. For ground mount, simply place the camera on a flat surface such as a conference table.



**Note:** GV-UNFE2502 also supports wall mount, while GV-UNFE2503 doesn't. For how to mount the GV-UNFE2502 on the wall, refer to *GV-UNFE2503 / 2502, 2.2 In-Ceiling Mount*.

#### Hint:

- 1. Mount the fisheye camera in the middle of the wall to have an excellent overview. Or ensure the camera is focused on the most important areas of the room as directly as possible to have the desired detailed recognition.
- 2. Orientate your camera using the printed text "TOP" on the camera or the installation sticker.

### 3.1 GV-FE2301 / 4301

GV-FE series come with a 5-pin data cable that allows you to connect to the power and any I/O devices.



#### **Wire Definition**

No.	Wire Color	Definition
1	Yellow	AC 24V+ / DC 12V+
2	Orange	AC 24V- / DC 12V-
3	Brown	Digital Input
4	Red	Digital Output
5	Black	GND

#### **Connecting to Power**

You can use a Power over Ethernet (PoE) adaptor to connect the GV-Fisheye IP Camera on the network, and the power will be provided over the network cable. Alternatively, you can use a standard network cable to connect the camera to your network, and then follow the steps below to connect to power using the 5-pin data cable and the power adaptor provided.

- 1. Insert the yellow wire to the pin on the right-side of the terminal block and the orange wire to the pin on the left-side of the terminal block.
- 2. Use a small flat-tip screwdriver to secure the screws above the pins.



3. Connect the DC 12V Power Adaptor to the Terminal Block.



#### Note:

- A DC 12V power adapter has been provided, but both AC 24V power adapter and DC 12V power adapter are compatible.
- 2. The power status LED is only visible with the camera cover removed.

### 3.2 GV-FE3402 / 3403 / 5302 / 5303



- 1. Remove the camera cover with the supplied torx wrench.
- 2. Supply power and network to the camera with one of the following methods:
  - A. **Power adapter:** plug in the power adapter and connect a standard network work cable.
  - B. **Power over Ethernet (PoE):** connect the camera to a PoE switch with a standard network cable to supply power and network.
  - C. **PoE Converter:** this method is only applicable to indoor GV-Fisheye Camera installed with an IR LED ring (GV-FE3403 / 5303). A PoE converter allows the camera to be connected to a PoE switch (thus supplied with network and power over a network cable), and also supplies power to IR LED ring. For installation steps, see 3.4 Connecting PoE Converter and IR LED Ring for GV-FE3403 / 5303.
- 3. Optionally insert a micro SD card (SD/SDHC, version 2.0 only, Class 10).
- 4. Optionally connect an external speaker.
- 5. Optionally connect a GV-WiFi Adapter V2 (for WiFi accessibility) or an external USB hard drive (for additional storage).
- 6. Secure the camera cover with the supplied torx wrench.

# 3.3 Connecting PoE Converter and IR LED Ring for GV-FE3403 / 5303

To install a PoE converter, follow the steps below.

**Note:** Instead of installing the PoE converter, you can connect the camera to a PoE switch and the IR LED ring with a power adapter separately.



1. Connect the PoE converter to a PoE switch with a standard network cable. Use the RJ-45 connector on the left.

#### Note:

- 1. Due to limited space inside the PoE converter, use a standard network cable without the rubber boot.
- 2. The camera will not work if you connect the wrong devices to the two RJ-45 connectors on the PoE converter.
- 2. Connect PoE Converter and the camera with the supplied network cable. Use the RJ-45 connector on the right.
- 3. Plug one of the PoE converter's terminal blocks to the camera and the other one to the IR LED ring.

**IMPORTANT:** It is advised to shorten the IR LED ring's wire to approximately 20 cm for it to fit inside the PoE converter.



4. Secure the camera to the PoE converter with the supplied screws.



5. Secure the PoE converter to the ceiling with 3 self-prepared screws.



### 3.4 GV-FER3402 / 3403 / 5302 / 5303



- 1. Remove the camera cover with the supplied torx wrench.
- 2. Supply power to the camera with one of the following:
  - A. Power adapter: see Assembling the Power Adapter later in this section.
  - B. **Power over Ethernet (PoE):** connect the camera to a PoE switch with a standard network cable to supply power and network.
- 3. Optionally insert a micro SD card (SD/SDHC, version 2.0 only, Class 10).
- 4. Secure the camera cover with the supplied torx wrench.

#### Assembling the Power Adapter

1. Insert the supplied power cable into the supplied waterproof rubber.



2. Insert the power cable into the supplied female terminal block as illustrated and plug it into the terminal block connector in the camera.



3. Insert the power wires at the other end into the male terminal block as illustrated and plug it to the power adapter.





### 3.5 GV-FER5700 / 12203

GV-FER5700 / 12203 comes with a data cable that allows you to connect to the power adapter, WiFi adapter or USB hard drive, microphone, speaker, and any I/O devices.



#### Note:

- 1. AC 24V is not supported by GV-FER5700.
- 2. GV-FER12203 currently does not support GV-WiFi adapter V2.

#### **Connecting to Power**

There are two ways to supply power to the camera:

- Use a Power over Ethernet (PoE) adapter to connect the camera to the network, and the power will be provided at the same time.
- Plug the power adapter to the terminal block on the data cable.

#### **Connecting to I/O Devices**

For details, see the same topic in 3.6 GV-EFER3700 / GV-EFER3700-W.

### 3.6 GV-EFER3700 / EFER3700-W

GV-EFER3700 / EFER3700-W comes with a data cable that allows you to connect to the power, microphone, speaker, and any I/O devices.



#### **Connecting to Power**

There are two ways to supply power to the camera:

- Only for GV-EFER3700, use a Power over Ethernet (PoE) adapter to connect the camera to the network, and the power will be provided at the same time.
- Plug the power adapter to the terminal block on the data cable.

### **Connecting to I/O Devices**

The camera supports one digital input and one digital output of dry contact.

I/O		
• • •	Pin	Function
	1	Digital Output
	2	GND
1 2 3	3	Digital Input

#### Voltage Load Expansion (Optional)

The camera can only drive a maximum load of **200mA 5V DC**. To expand the maximum voltage load to **10A 250V AC**, **10A 125V AC** or **5A 100V DC**, connect the camera to a GV-Relay V2 module (optional product). Refer to the figure and table below.



GV-Relay V2	Vandal Proof IP Dome
COM	Pin 2 of I/O terminal block
DO1	Pin 1 of I/O terminal block

### 4. Accessing the GV-Fisheye Camera

### 4.1 Web Browser

Once installed, your GV-Fisheye IP Camera is accessible over the network. Make sure your PC has good network connection. The supported Web browsers are Microsoft Internet Explorer 7.x or later, Firefox, Google Chrome, Safari.

**Note:** If you are using Microsoft Internet Explorer 8.0, additional settings are required. Please refer to *Settings for Internet Explorer 8*, Appendix A, *GV-Fisheye IP Camera User's Manual.* 

To access GV-FER12203 images, the following PC specifications should be met:

CPU	Intel Core i5-4670, 3.40 GHz
Memory	DDR3 8 GB RAM
On Board Graphics	Intel HD Graphics 4600 (Versions of driver from year 2014 or later
	required)

### 4.2 Looking Up the Dynamic IP Address

By default, when GV-Fisheye Camera is connected to LAN with a DHCP server, it is automatically assigned with a dynamic IP address. Follow the steps below to look up this IP address.

#### Note:

- 1. GV-Fisheye Camera has a default IP address **192.168.0.10**, and the login ID and password are **admin**.
- 2. The computer you use to configure the IP address must be under the same LAN with your camera.
- 1. Install the GV-IP Device Utility program included in the GV-Fisheye IP Camera Software DVD.
- 2. On the GV-IP Utility window, click the Q button to search for the IP devices connected in the same LAN. Click the **Name** or **Mac Address** column to sort.

🚔 GV IP	🖹 GV IP Device Utility 📃 🗆 🔀						
File Tool	1						
Q	Q 🗞 🕂 💥 🔅						
General	settings NVR camera setti	ings					
Name	•	Mac Address	IP Address	Firmware Version	Temperature	NOTE	^
90	3V-FE420/421(NVR)	0013E20415FA	192.168.2.253	v1.07 2011-11-29	47.5°C		
9 0	OV-FE520/FE521	0013E204177B	<u>192.168.2.24</u>	v1.07 2011-12-05	53.5°C		-
90	3V-FE520/FE521	0013E2025570	192.168.2.23	v1.06 2011-09-15	56.5°C		
90	3V-FE520/FE521(NVR)	0013E202FFFF	192.168.2.251	v1.07 2011-11-29	48.5°C		
	>V-FE520V/FE521V	0013E203466E	<u>192.168.0.237</u>	v1.07 2011-12-12	43.5°C		~

3. Find the camera with its Mac Address, click on its IP address and select Web Page.

🚔 GV IP Device Utility 📃 🗖 🔀						
File Tool						
🔍 🍢 🕂 💢 🤔						
General settings NVR camera sett	ings					
Name 🔻	Mac Address	IP Address	Firmware Version	Temperature	NOTE	
GV-FE420/421(NVR)	0013E20415FA	<u>192.168.2.253</u>	v1.07 2011-11-29	47.5°C		
GV-FE520/FE521	0013E204177B	<u>192.168.2.2 * .</u>	Web Dage	53.5°C		-
GV-FE520/FE521	0013E2025570	192.168.2.2	ive View	56.5°C		
GV-FE520/FE521(NVR)	0013E202FFFF	192.168.2.2	Live view Comoro odjustmost	48.5°C		
GV-FE520V/FE521V	0013E203466E	<u>192.168.0.2</u>	Configure	43.5°C		~
						11.

4. The login page appears.

GeoUision: IP CAMERA SETUP			
Login Password	:		
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5. Type the default ID and password **admin** and click **Apply** to login.

### 4.3 Configuring the IP Address

To configure the camera's default IP address or to change the IP address from dynamic to static, follow the steps below.

**Note:** If your camera is assigned with the default IP address 192.168.0.10, it is advisable to change this IP address to avoid IP conflict with other GeoVision IP devices.

1. In the left menu, select Network and then LAN to begin the network settings.

<b>GeoUision</b>	LAN Configuration		
<ul> <li>Video and Motion</li> <li>I/O Control</li> </ul>	In this section you can configure GV-IPCAM to work inside of LAN.		
Events and Alerts	LAN Configuration		
Monitoring			
Recording Schedule	O Dynamic IP address Select this option to obtain IP address from a DHCP server		
Remote Viewlog	Static IP address     Select this option to enter a Static IP address manually		
Network	O PPPoE Select this option to establish a DSL connection		
<u>Status</u>	Username:		
<u>LAN</u>	Password		
Advanced			
TCP/IP	Configure connection parameters		
P Filtering			
SNMP Setting	IP Address: 192.168.0.174		
Management	Subnet Mask: 255.255.255.0		
' <u>Loqout</u>	Router/Gateway: 192.168.0.1		
<<	Primary DNS: 192.168.0.1		
_	Secondary DNS: 192.168.0.2 (Optional)		
	Apply Test DHCP		

- 2. Select **Static IP address**. Type IP Address, Subnet Mask, Router/Gateway, Primary DNS and Secondary DNS in the **Configure connection parameters** section.
- 3. Click **Apply**. The camera is now accessible by entering the assigned IP address on the Web browser.

#### **IMPORTANT:**

1. If **Dynamic IP Address** or **PPPoE** is enabled, you need to know which IP address the camera will get from the DHCP server or ISP to log in. If your camera in installed in a LAN, use the GV-IP Device Utility to look up its current dynamic IP address. See *Checking the Dynamic IP Address*, Chapter 2, *GV-Fisheye IP Camera User's Manual*.

If your camera uses a public dynamic IP address via PPPoE, use the Dynamic DNS service to obtain a domain name linked to the camera's changing IP address first. For dynamic DNS server settings, see *Advanced TCP/IP*, Chapter 4, *GV-Fisheye IP Camera User's Manual*.

2. If **Dynamic IP Address** or **PPPoE** is enabled and you cannot access the camera, you may have to reset it to the factory default settings and then perform the network settings again. Refer to section 7 to see how to restore to factory default settings.

# 

### 4.4 Configuring the Wireless Connection

Follow the steps below to set up wireless connection to your GV-Fisheye Camera (GV-FE3402 / 3403 / 5302 / 5303, GV-FER5700 / 12203 and GV-EFER3700-W).

1. To set up the wireless LAN for the first time, power on the camera, connect a standard network cable and insert a WiFi adapter.

**Note:** GV-EFER3700-W has a built-in WiFi antenna and supports the WPS function. If your router doesn't support WPS, follow the instructions below to set up the wireless connection.

- 2. An IP address will be automatically assigned to the camera. Use GV IP Device Utility to search for the device. For details, see *4.2 Looking Up the Dynamic IP Address*.
- 3. Configure the wireless settings.
  - A. On the Web interface, select **Network**, select **Wireless** and **Client Mode**. This dialog box appears.

WLAN Configuration (Client Mode)				
i this section you can c	onfigure your GV-IPCAM to act as Wireless Client.			
Wireless Client Settin	g			
Network name (SSID)	efault Access Point Survey			
Network type	🔘 Ad Hoc 💿 Infrastructure			
Authentication Type	Disable 💌			
WPA-PSK Pre-shared k	Key 12345678			
WEP	Key 1 HEX V 0123456789			
	O Key 3 HEX 🔽			
	O Key 4 HEX 🔽			
	* HEX: 10 or 26 hex digits. ASCII: 5 or 13 characters.			
Apply				

- B. Type the Network Name (SSID) or click the **Access Point Survey** button to search and select for the available Access Points/wireless stations.
- C. Select Ad-Hoc or Infrastructure for the Network type.
- D. Select the **Authentication Type** using the drop-down list. You can also obtain this information by clicking the **Access Point Survey** button.

- E. Type the **WPA-PSK Pre-shared Key** or **WEP** depending on the encryption setting for the Access Point.
- F. Click **Apply** to save the configuration.

#### Note:

- 1. Your encryption settings must match those used by the Access Points or wireless stations with which you want to associate.
- 2. When **Ad Hoc** is used, only **WEP** encryption is supported.
- 3. When you lose the wireless access, you can still access the unit by connecting it to a LAN and using the GV IP Device Utility to search for the device.
- 4. For detailed information on configuring the wireless LAN, see *Wireless Client Mode*, *Administrator* Chapter, *GV-Fisheye User Manual* on the Software DVD.
- 4. Enable wireless LAN.
  - A. On the Web interface, select **Network** and **LAN**. This page appears.

-	1		
C GeoUision	LAN Configuration		
Video and Motion	In this section you can configure GV-IPCAM to work inside of LAN.		
Live View			
Streaming1	OptionalNetwork type		
Streaming2			
Video Settings	O Wired Ethernet Select this option to use wired 10/100Mbps ethernet		
Motion Detection	Wireless Select this option to use Wireless		
Privacy Mask			
Text Overlay	LAN Configuration		
Tampering Alarm			
Events and Alerts	O Dynamic IP address Select this option to obtain IP address from a DHCP server Test DHCP		
Monitoring	<ul> <li>Static IP address Select this option to enter a Static IP address manually</li> </ul>		
Recording Schedule	IP Address: 192.168.2.12		
Remote Viewlog	Subnet Mask: 255.252.0		
Network	Router/Gateway: 192.168.0.1		
<u>Status</u>	Priman/ DNS: 168 95 192 1		
LAN	Conservations DNIC: 192102.0.2		
Vireless	Optionaly		
Client Mode	PPPoE Select this option to establish a DSL connection		
Advanced TCP/IP	Usemame:		
IP Filtering	Password:		
SNMP Setting			
Management	WirelessSettings		
Logout			
	O Dynamic IP address Select this option to obtain IP address from a DHCP server Test DHCP		
<<	<ul> <li>Static IP address Select this option to enter a Static IP address manually</li> </ul>		
	IP Address: 192.168.2.12		
	Subnet Mask: 255.255.252.0		
	Router/Gateway: 192.168.0.1		
	Primary DNS: 192.168.0.1		
	Secondary DNS: 192.168.0.2 (Optional)		
	· · · · · · · · · · · · · · · · · · ·		
	Apply		

- B. Select **Wireless** for Optional Network Type.
- C. To use a dynamic IP address assigned by the DHCP server, select **Dynamic IP** address. To use a fixed IP address, select **Static IP address** and type the IP address information.
- 5. Click **Apply**. The Camera will start creating a wireless connection to the access point.
- 6. Unplug the Ethernet cable.

### 5. The Web Interface



No.	Name	Function
1	Play	Plays live video.
2	Stop	Stops playing video.
3	Microphone	Listens to the audio around the camera.
4	Speaker	Talks to the surveillance area from the local computer.
5	Snapshot	Takes a snapshot of live video.
6	File Save	Records live video to the local computer.
7	Full Screen	Switches to full screen. Right-click to see more options.
8	I/O Control	Enables the I/O Control Panel or the Visual Automation. This function is only supported by GV-FE2301 / 4301 and GV-FER5700 / 12203.

No.	Name	Function
9	Show System Menu	Brings up these functions: Alarm Notify, Video and Audio Configuration, Remote Config, Show Camera Name and Image Enhance.
10	Control Panel	Displays the camera information, video settings, audio data rate, I/O device status, images captured upon alarm, and GPS location of the camera. Also allows you to adjust image quality and install the program from the hard drive.
## 5.1 Fisheye View

To enable the fisheye options, right-click the live view image and select **Geo Fisheye**. Right-click the image again and select **Fisheye Option** to see the following options.

- **Image Alignment**: By default, the image should be properly aligned already. If not, follow the steps below to align the image for each model:
  - GV-FE3402 / 3403 / 5302 / 5303, GV-FER3402 / 3403 / 5302 / 5303 / 5700 / 12203, GV-EFER3700 / 3700-W and GV-UNFE2503 / 2502: Align the circle with the outer edge of the camera image, and then align it with the inner edge of the image frame to achieve optimal results.



GV-FE2301: Align the red circle with the edge of the camera image. You can
eliminate the darker areas toward the edge of the image by making the red circle
smaller, but the field of view will be slightly reduced.



GV-FE2301 / 4301



**Note:** The circular source image of GV-FE2301 / 4301 should be centered and slightly cropped on all four edges. If the image is not centered, please contact your sales representative and send your device back to GeoVision for adjustment. Refer to Chapter 3, *GV-Fisheye IP Camera User's Manual* to see how to determine if your device needs adjustment or not.

- Camera Modes: You can choose among four view modes.
  - Quad view: Composed of four PTZ views.
  - **360 degree:** Composed of two PTZ views and one 360° panoramic view.
  - **Dual 180 degree:** Composed of two 180° views.
  - **Single view:** Composed of one PTZ view.



Quad view: 4 PTZ views



Dual 180 degree: 2 180° views



360 degree: 2 PTZ views &1 360° view



Single view: 1 PTZ view

**Note:** When the wall mount is selected for Camera Position, only one 180° view will be displayed.

- Camera Position: Select Ceiling, Wall or Ground according to where the camera is mounted.
- Adjust AutoPan Speed At Top-Left Channel: Select low, medium, or high speed to enable Auto Pan for one PTZ view at the rotation speed of your choice. This option applies to Quad view, 360 degree and Single view.
- Zoom: Select Zoom In or Zoom Out and then click on the image.
- Show Source Video At Top-Right Channel: Shows the circular source image in the top-right quadrant when **Quad view** is selected.
- 360 degrees Object Tracking: Tracks moving objects under 360 degree view.
- **Settings:** The following settings are available.
  - **Screen Ratio Setting:** Select a ratio that best fits the display ratio of your computer.
  - Wide View: Increase the height of the 180 degree view when camera position is set to wall mount.
  - Hardware Acceleration: Dewarps fisheye view processed by GPU to lower CPU loading.
  - **Frame Rate Control**: You can set the frame rate of the live view image.
  - Show Original Video in Low Resolution: Shows circular source image when the resolution is low. This option only works on the GV-DVR / NVR / VMS when the fisheye camera is connected to a GV-DVR / NVR / VMS.

You can drag and drop the PTZ view or 180° view to adjust the viewing angle.

# 6. Upgrading System Firmware

GeoVision periodically releases the updated firmware on the website. To load the new firmware into the GV-Fisheye IP Camera, read the important notes and then follow the instructions below.

#### **IMPORTANT:**

- While the firmware is being updated, the power supply must not be interrupted, and do not unplug the Ethernet cable if the cable is the source of power supply (Power over Ethernet or PoE supported).
- 2. Do not turn the power off for 10 minutes after the firmware is updated.
- 3. If you use the IP Device Utility for firmware upgrade, the computer used to upgrade firmware must be under the same network of the camera.
- 1. In the Live View window, click the **Show System Menu** button is on the right and select **Remote Config**. This dialog box appears.



- 2. Click the **Browse** button to locate the firmware file (.img) saved at your local computer.
- 3. Click the **Upgrade** button to process the upgrade.

**WARNING:** The interruption of power supply during updating causes not only update failures but also damages to your camera. In this case, contact your sales representative and send your device back to GeoVision for repair.

# 7. Restoring to Factory Default

You can restore the camera to factory default settings using the Web interface or directly on the camera.

## 7.1 Using the Web Interface

- 1. In the left menu, select **Management** and select **Tools**.
- 2. Under the System Settings section, click the Load Default button.

<b>GeoUision</b>	In this section you can set the system's auto reboot time.
Video and Motion	Enable
I/O Control	Day Interval 1 days
Events and Alerts	RebootTime 00 V 00 V
Monitoring	
Recording Schedule	Apply
Remote Viewlog	
Network	Repair Recording Database
Management	
Date and Time	Click Apply to repair the database when you cannot play back recordings.
GPS Maps Settings	
Storage Settings	Apply
User Account	Renairing Status
Log Information	ropulling status
System Log	
Tools	Unknown
Language	
► Logout	
	Firmware Update
	In this section you can see GV-IPCAM firmware version.
	v2.11.2014-02-14 (128.MB)
	System Settings
	Restore to factory default settings Load Default

# **GeoVision**

## 7.2 Directly on the Camera

- 1. Use the supplied torx wrench to remove the camera cover.
- 2. Use a pointy object such as the tip of a pen to hold down the **Load default** button labeled below.
- 3. Release the default button when the system status LED blinks.
- 4. When the status LED fades, the process of loading default settings is completed and the camera reboots automatically.



GV-FE2301 / 4301

GV-FE3402 / 3403 / 5302 / 5303



## GV-FER3402 / 3403 / 5302 / 5303



### GV-EFER3700 / EFER3700-W







## GV-FER5700



GV-FER12203



#### GV-UNFE2503 / 2502

- 1. Keep the PoE cable connected to the main body.
- 2. Use a pin to press and hold the Load default button on the panel.



- 3. Release the default button when the status LED blinks. This shall take about 8 seconds.
- 4. When the status LED fades, the process of loading default settings is completed and the camera reboots automatically.