Quick Start Guide

GV-Fisheye IP Camera

GeoVision inc
The Vision of Security

Note:
1. GV-FE110 / FE420 / FE520 are excluded from Japan, EU and German market.
2. No memory card slot or local storage function for Argentina.

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* on Software DVD.

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English
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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 GV-Fisheye IP Camera. For the detailed user manual, see the *GV-Fisheye IP Camera User Manual* on the GV-Fisheye IP Camera Software DVD.

Note: GV-FE110 / FE111 / FE420 / FE421 / FE520 / FE521 are for indoor use, while GV-FER521 is designed for outdoor environment.

Packing List

- Camera Body

- Camera Cover
  (Hard-Ceiling Mount)

- Camera Cover
  (In-Ceiling Mount)

- Screw
  (Hard Ceiling Mount) x 3

- Screw
  (In-Ceiling Mount) x 3

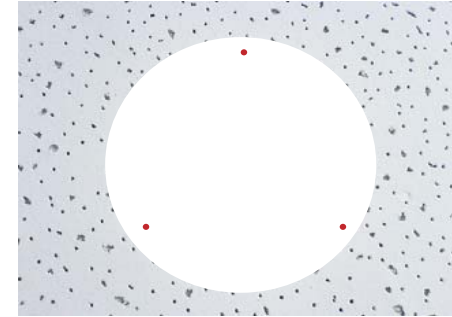- Support Bracket x 3

- Plastic Screw Anchor x 3

- Torx Wrench

- Installation Sticker
- Silica Gel Bag and Adhesive Tape x 2 (GV-FER521 only)
- DC 12V Power Adaptor and 3-Pin or 2-Pin Terminal Block (GV-FE series only)
- Cable Connector (for GV-FER521 only)
- GV-Fisheye IP Camera Software DVD
- GV-NVR Quick Start Guide
- GV-NVR Software DVD

Hard Ceiling Mount

1. Place the installation sticker on the ceiling board. The 3 red dots indicate the location of the screws.

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 GV-FER521, install the supplied cable connector to waterproof the cable. You should have 5 components:

a. Prepare an internet cable with the RJ-45 connector on one end only.

b. Connect the internet cable to the camera cable.

c. Paste the sticker to the camera cable and slide in all the components as shown below.

d. Move all the components toward the RJ-45 connector, fit item 4 to item 2, secure item 3 to the camera cable and finally secure item 5 to item 2 tightly.

IMPORTANT: Item 5 must be secured tightly to waterproof the cable.
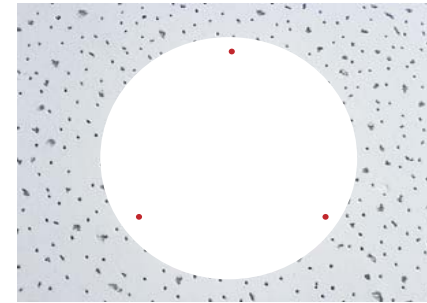
6. Place the camera cover for hard ceiling mount on top of the camera and tighten the screws with the torx wrench provided.

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).

1. Place the installation sticker on the ceiling board, and cut the circle part out of the ceiling.

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 GV-FER521, install the supplied cable connector to waterproof the cable. Refer to step 5 in 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. Place the camera cover for in-ceiling mount on top of the camera and tighten the 3 screws.
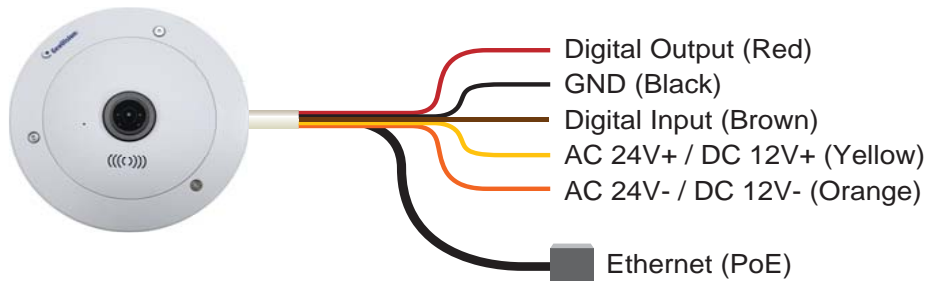

Wall Mount and Ground Mount

To mount the camera on a wall, follow the instructions in *Hard Ceiling Mount*. For ground mount, simply place the camera on a flat surface such as a conference table.
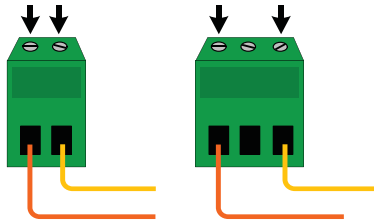
Hint: Mount the fisheye camera in the middle of the wall to have an excellent overview. Or ensure the camera is focused on the most important areas of the room as directly as possible to have the desired detailed recognition.
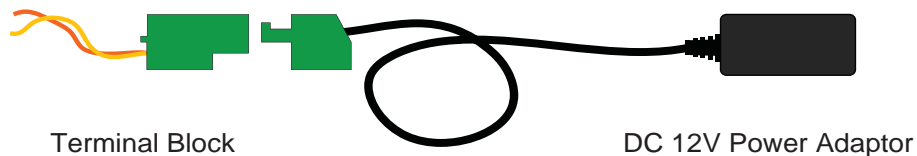
You can use a Power over Ethernet (PoE) adaptor to connect the GV-Fisheye IP Camera on the network, and the power will be provided over the network cable. Alternatively, you can use a standard network cable to connect the camera to your network, and then follow the steps below to connect to power using the 5-pin data cable and the power adaptor provided.

Note:

1. The power status LED will not be visible unless the outer shell of the camera body is removed.

2. The GV-FER521 comes with a PoE cable that allows you to connect to the power and network through a PoE adaptor. Note that digital input and output are not supported in GV-FER521.

Digital Output (Red)
GND (Black)
Digital Input (Brown)
AC 24V+ / DC 12V+ (Yellow)
AC 24V- / DC 12V- (Orange)

Ethernet (PoE)

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.

Terminal Block   DC 12V Power Adaptor
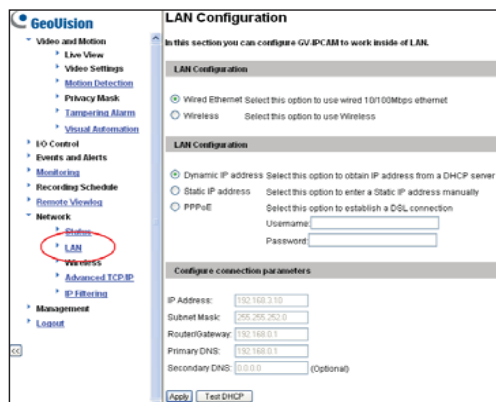
Once installed, your GV-Fisheye IP Camera is accessible on a network. Make sure your PC has good network connection, and meet this system requirement:

- Microsoft Internet Explorer 7.x or later

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 Manual.*

By default, the camera has a default IP address of 192.168.0.10. However, when GV-FE420 / 421 / 520 / 521 or GV-FER521 connects to the LAN with a DHCP server, a dynamic IP address will be assigned instead of 192.168.0.10. If no DHCP server exists, the default IP address will be applied and you can follow the steps below to assign a static IP address.

1. Open your web browser, and type the default IP address: http://192.168.0.10. The computer must be under the same network as the camera.
2. In both Login and Password fields, type the default value **admin**. Click **Apply**.
3. In the left menu, select **Network** and then **LAN** to begin the network settings.

4. Select **Static IP address**. Type IP Address, Subnet Mask, Router/Gateway, Primary DNS and Secondary DNS in the **Configure connection parameters** section.
5. Click **Apply**. The camera is now accessible by entering the assigned IP address on Internet Explorer 7.x or later.
6. To enable the updating of images in Microsoft Internet Explorer, you must set your browser to allow ActiveX Controls and perform a one-time installation of GeoVision's ActiveX component onto your computer.

IMPORTANT:

- 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.*

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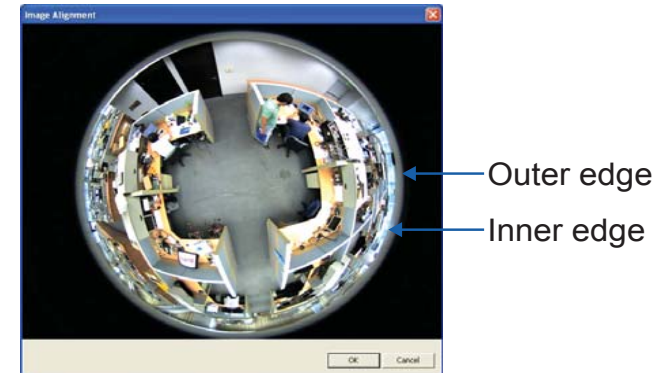
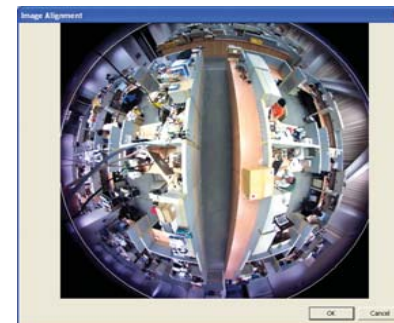| No.	Name	Function
1	Play	Plays live video.
2	Stop	Stops playing video.
3	Microphone	Listens to the audio around the camera.
4	Speaker	Talks to the surveillance area from the local computer.
5	Snapshot	Takes a snapshot of live video.
6	File Save	Records live video to the local computer.
7	Full Screen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

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-FE110 / FE111:** 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.

Outer edge
Inner edge

  - **GV-FE420 / FE421 / FE520 / FE521 / FER521:** 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-FE420 / FE421   GV-FE520 / FE521 / GV-FER521
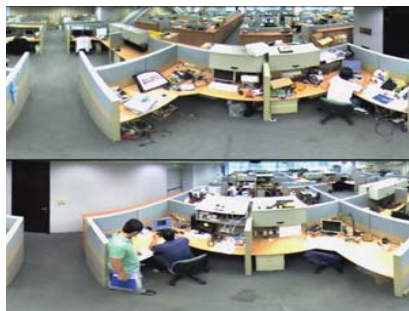
- **Camera Modes**: You can choose among four view modes.
  - **Quad view**: Composed of four PTZ views.
  - **360 degree**: Composed of two PTZ views and one 360º panoramic view.
  - **Dual 180 degree**: Composed of two 180º views.
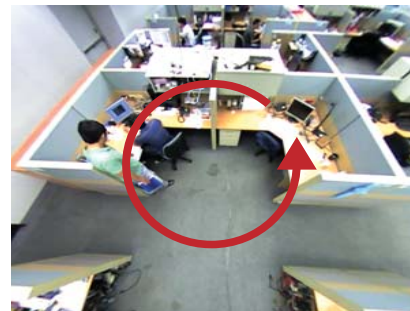 - **Single view**: Composed of one PTZ view.

Quad view: 4 PTZ views

360 degree: 2 PTZ & 1 360º views

Dual 180 degree: 2 180º views

Single view: 1 PTZ view

- **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.

  - **Frame Rate Control:** You can set the frame rate of the live view.

  - **Show Original Video in Low Resolution:** Shows circular source image when the resolution is low. This option only works on the GV-System when the fisheye camera is connected to a GV-System.

  - **Screen Ratio Setting:** Select a ratio that best fits the display ratio of your computer.

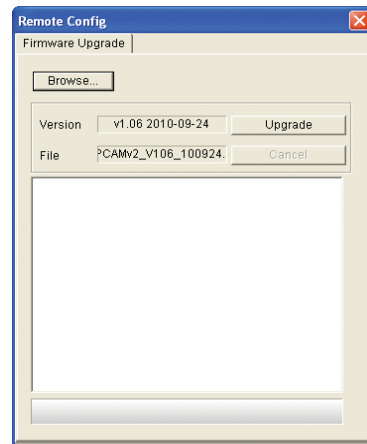You can drag and drop the PTZ view or 180º view to adjust the viewing angle.

GeoVision will periodically release 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:

1 While the firmware is being updated,
   A. the power supply must not be interrupted, and
   B. 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 on the right and select **Remote Config**.

2. Click the **Browser** button to locate the firmware file (.img) saved at your local computer.

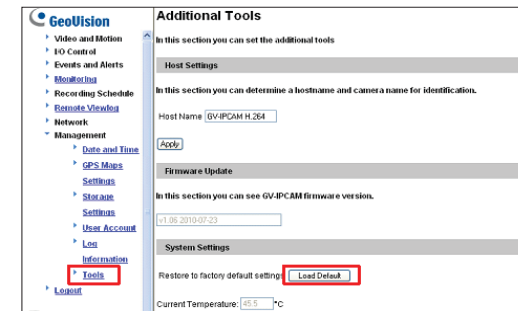3. Click the **Upgrade** button to process the upgrade.

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

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

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.

Directly on the Camera:

For GV-FE420 / FE421 / FE520 / FE521 / FER521:

1. Remove the outer shell of the camera by unscrewing the screws indicated below and then removing the outer shell of the camera.
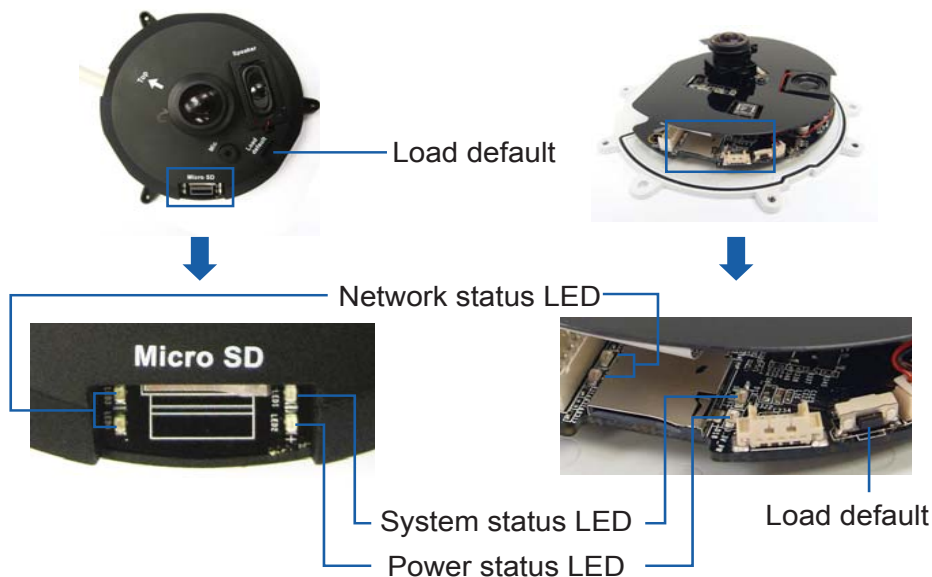
GV-FE Series   **GV-FER521**

2. Use a pointy object such as the tip of a pen to hold down the **Load default** button labeled below.

GV-FE Series   **GV-FER521**

Load default

Network status LED

Micro SD

System status LED   Load default

Power status LED

3. Release the default button when the status LED blinks.

4. When the status LED fades, the process of loading default settings is completed and the camera reboots automatically.

For GV-FE110 / FE111:

1. Unplug the power cable and the network cable.

2. Remove the outer shell of the camera.

3. Use a pointy object such as the tip of a pen to hold down the **Load default** button while plugging back the power cable and the network cable.

4. Wait until the network status LED turns off momentarily to release the **Load default** button. This may take about 40 seconds.

5. The system status LED should turn back on. The process of loading default settings is completed and the camera reboots automatically.

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