GeoVision inc
The Vision of Security

Quick Start Guide

GV-GFER12800



Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

G-FER-12MP-QG-A

© 2026 GeoVision, Inc. All rights reserved.
Under the copyright laws, this manual may not be copied, in whole or in part, without the written consent of GeoVision.

Every effort has been made to ensure that the information in this manual is accurate. GeoVision, Inc. makes no expressed or implied warranty of any kind and assumes no responsibility for errors or omissions. No liability is assumed for incidental or consequential damages arising from the use of the information or products contained herein. Features and specifications are subject to change without notice.

GeoVision, Inc.
9F, No. 246, Sec. 1, Neihu Rd.,
Neihu District, Taipei, Taiwan
Tel: +886-2-8797-8377
Fax: +886-2-8797-8335
http://www.geovision.com.tw

Trademarks used in this manual: *GeoVision*, the *GeoVision* logo and GV series products are trademarks of GeoVision, Inc. *Windows* is the registered trademark of Microsoft Corporation.

June 2026

Scan the following QR codes for product warranty and technical support policy:

[Warranty]

[Technical Support Policy]

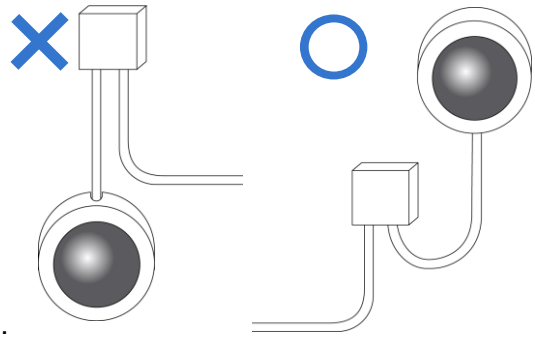
Warning and Caution

- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not be responsible for any problems caused by unauthorized repair or maintenance.)
- Keep away from liquid while use.
- In the use of the product, you must be strict compliance with the electrical safety regulations of the nation and region. When the product is mounted on wall, the device shall be firmly fixed.
- Do not use camera beyond specified voltage range.
- Do not drop the camera or subject it to physical shock.
- Avoid touching the camera lens.
- If cleaning is necessary, please use clean cloth to wipe it gently.
- Do not aim the camera at the sun or extra bright place.
- Do not place the camera in extremely hot, cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for operating environment.

Note for Installing Camera Outdoors

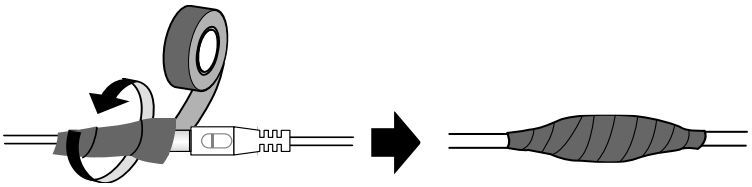
When installing the camera outdoors, ensure that:

1. The camera is positioned higher than the junction box to prevent water from running along the cables and entering the housing.



.

2. Any PoE, power, audio, and I/O cables are waterproofed using waterproof silicone rubber tape or a similar material.



3. The screws are securely tightened and the cover is properly reinstated whenever the camera housing has been opened.

Contents

Warning and Caution ..... **i**

Note for Installing Camera Outdoors ..... **ii**

1. Overview **1**

1.1 Camera Overview 1

1.2 Cable Connection 3

2. Installation **5**

3. Accessing the Network Camera **7**

3.1 Looking Up the Dynamic IP Address 7

3.2 Configuring the IP Address 9

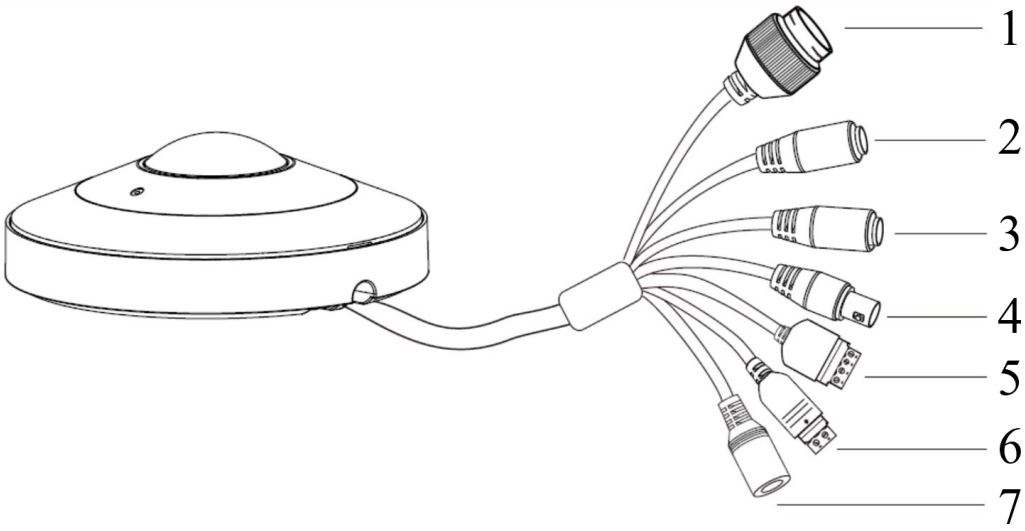
4. The Web Interface **10**

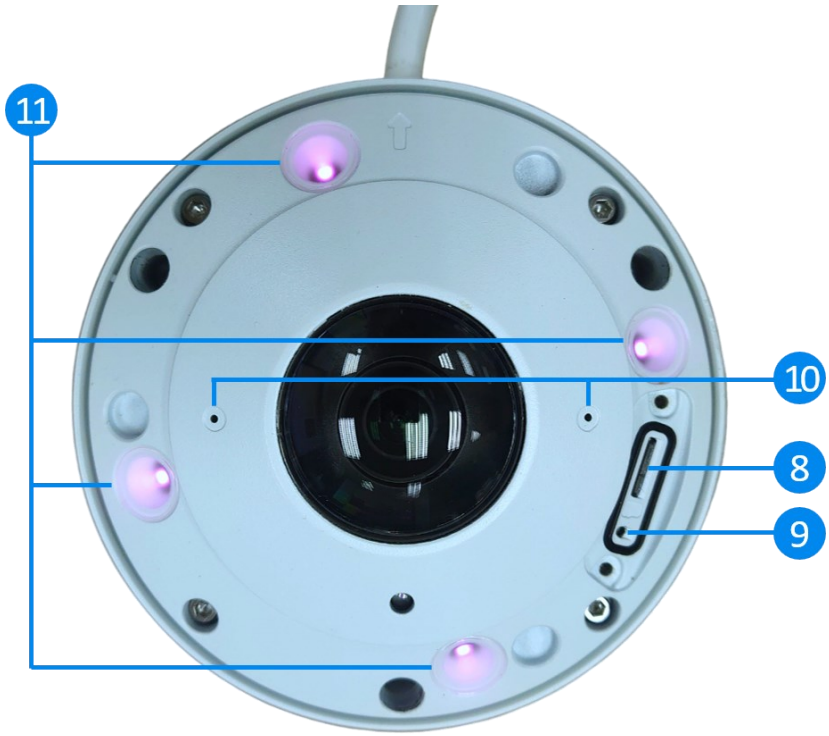
5. Upgrading System Firmware **12**

6. Restoring to Factory Default **13**

1. Overview

1.1 Camera Overview



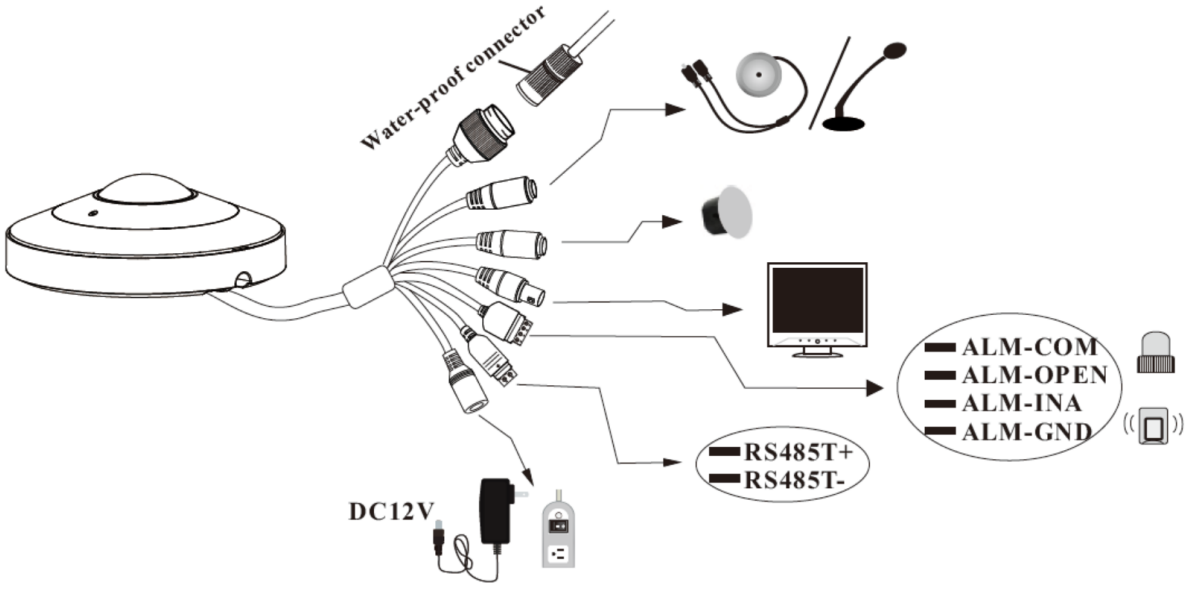


1	Ethernet connector (PoE)	7	Power connector (DC 12V)
2	MIC audio input connector	8	microSD card slot
3	HP audio output connector	9	Default button
4	CVBS video output (BNC)	10	Built-in microphone
5	Alarm input/output	11	IR LED x 4
6	RS-485 port		

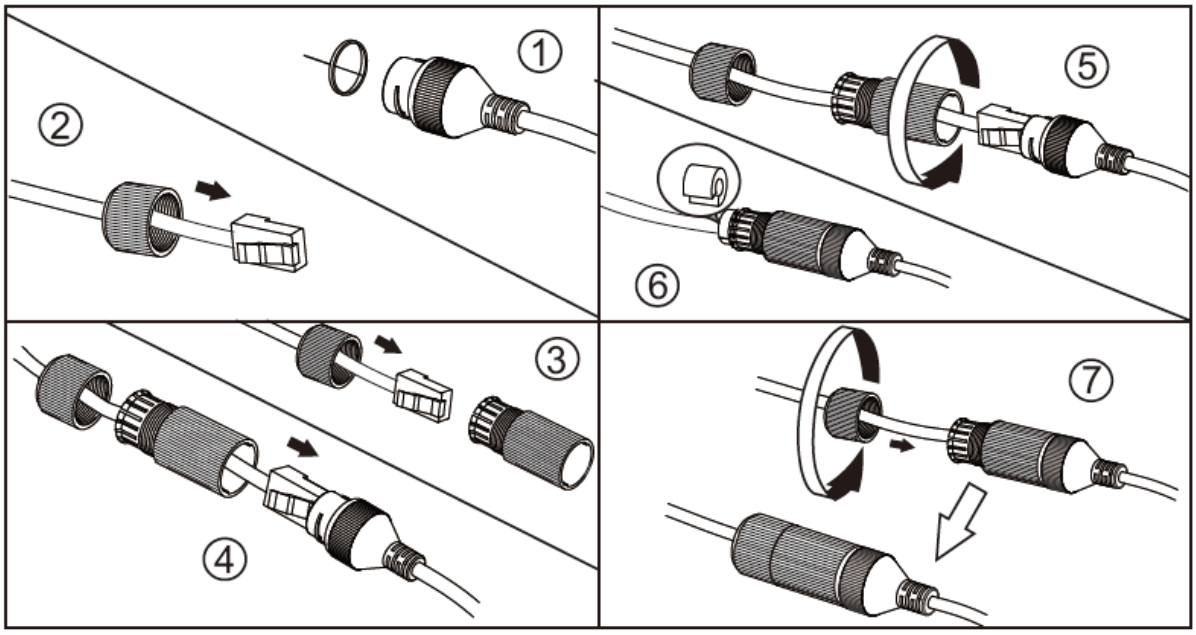
Note:

1. It is recommended to install the waterproof connector for outdoor installation.
2. This series can be powered by DC 12V / PoE power supply. If the PoE switch is used to power the camera, DC 12V power supply is not required.
3. To load default settings, press and hold the default button for 10 seconds.

1.2 Cable Connection



Connecting Network Cable



Note: If the RJ-45 connector of the network cable has a jacket and cannot be threaded through the kit, remove the jacket. If the jacket cannot be removed, cut off the connector and install an RJ 45 connector without the jacket.

Connecting Alarm Input / Output

Alarm input: Join the grounding ends of the sensor and the camera and then connect the signal cable of the sensor to the alarm input port of the camera.

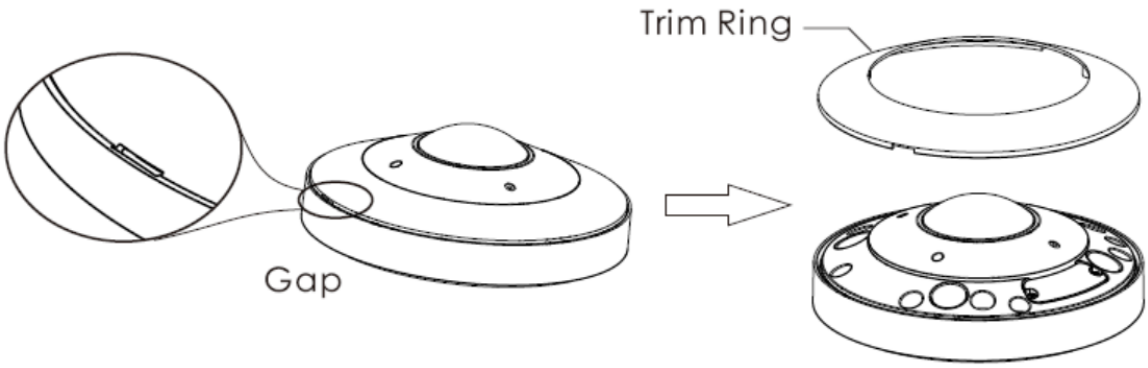
Alarm output: Loosen the screws in the alarm output port. Then insert the signal wires of the alarm output devices into the port of COM and OPEN separately. Finally tighten the screws. Some of the external alarm output devices need the power supply.

2. Installation

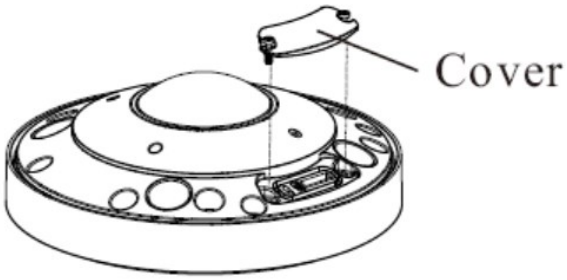
Make sure that the wall or ceiling can support at least 3 times the camera's weight and that the installation is done in a dry environment. It's recommended to reinstall the camera cover within 4 hours of removal.

Memory Card Installation

1. Remove the trim ring from the gap of the camera.

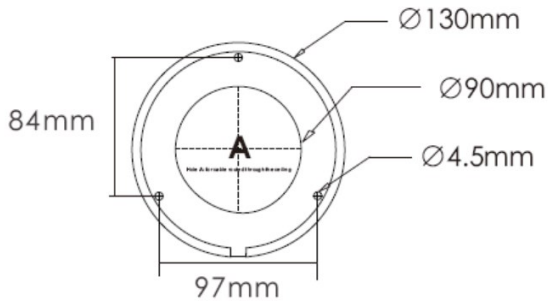


2. Loosen the screws of the cover and then insert a microSD card. After that, install the cover back.

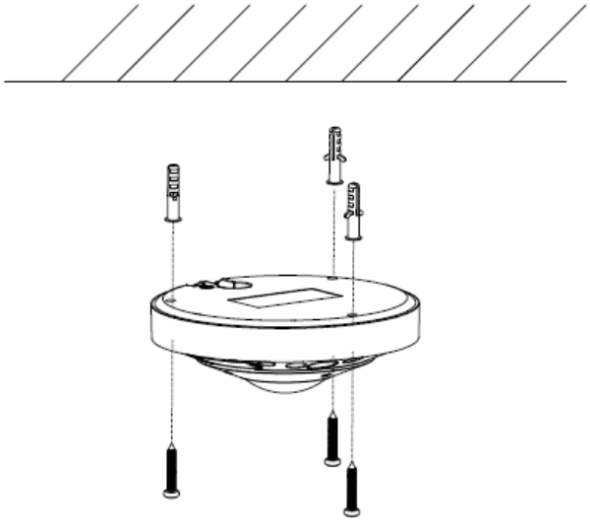


Ceiling Mounting

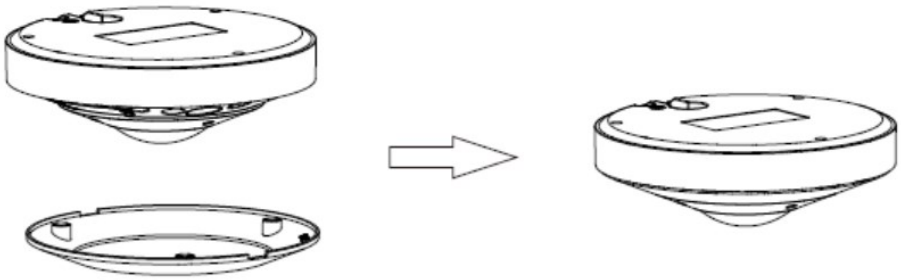
1. Remove the trim ring from the gap of the camera (see Step 1 in *Memory Card Installation*).
2. Drill the screw holes and cut the cable hole (A) in the ceiling according to the drill template.



3. Route and connect the cables.
4. Secure the camera to the wall with screws as shown below.



5. Install the trim ring back to the camera.



3. Accessing the Network Camera

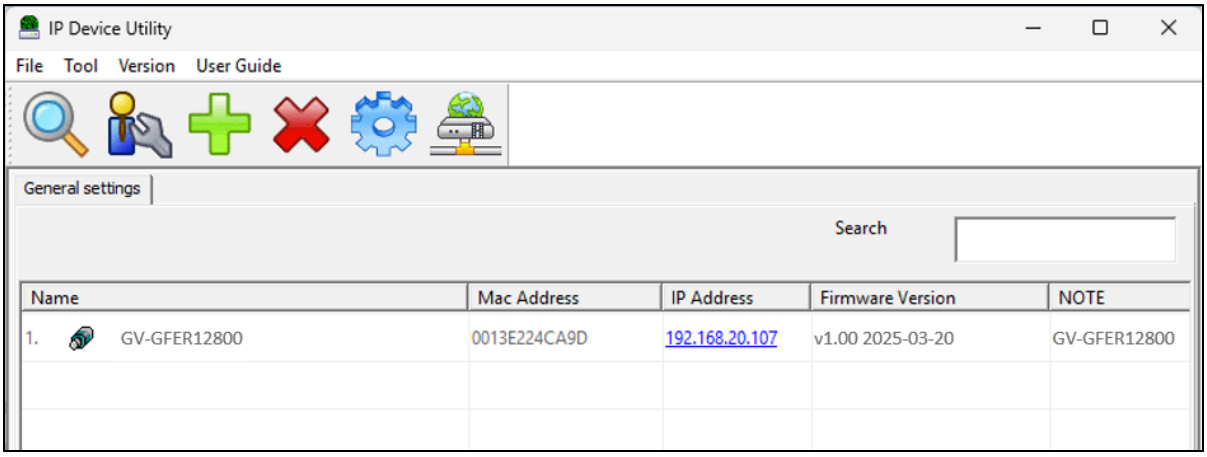
3.1 Looking Up the Dynamic IP Address

By default, when the camera is connected to a LAN with a DHCP server, it is automatically allocated a dynamic IP address. Follow the steps below to look up its IP address, and then use that address to access its Web interface.

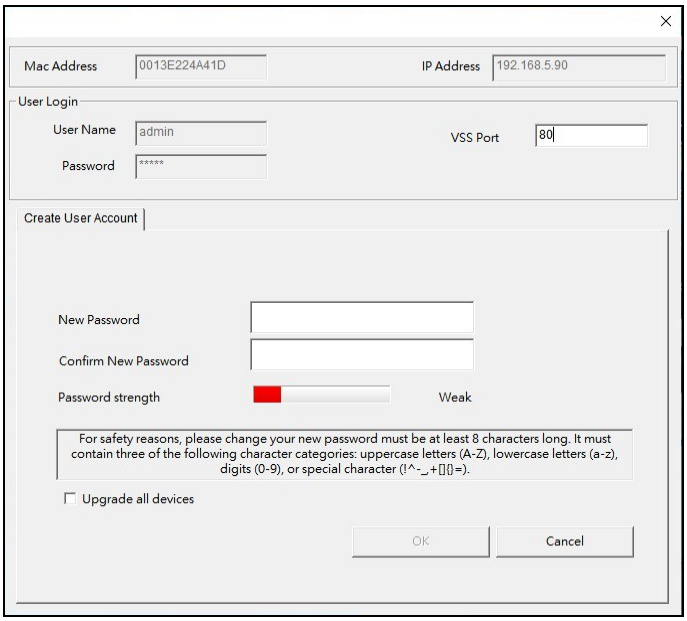
Note: By default, the Administrator's username is **admin** and cannot be modified.

---

1. Make sure the PC used to configure the IP address is under the same LAN as the camera. Download and install **GV-IP Device Utility** from the company website.
2. On the GV-IP Utility window, click the button to search for IP devices connected to the same LAN. To sort, click the **Name** or **Mac Address** column.
3. Find the camera with its Mac Address, and click on its IP address.



4. For first-time users, you are requested to create a password.



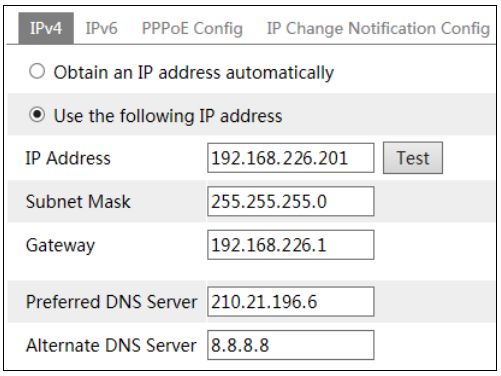
5. Type a new password and click **OK**.
6. Click on its IP address on the Utility window again and select **Web Page** to access its Web interface.
7. Type the set password on the login page and click **Login**.

Note: To change the password using GV-IP Device Utility, click on the camera's IP address, and select **Configure** > **Change Password**. Alternatively, you can change the password on the camera's Web interface by clicking **Config** > **Security** > **User**; see "Modify User" in *3.7.1 User Configuration* in the user's manual.

3.2 Configuring the IP Address

If the camera is connected to a LAN without a DHCP server, the default IP address will be **192.168.0.10**. To avoid IP conflict with other GV-IP devices on the same LAN, configure an IP address as described below.

1. Open your Web browser, and type the default IP address **192.168.0.10**.
2. Type the default username **admin** and a password. Click **Login**.
3. Go to **Config** > **Network** > **TCP/IP** to set the IP address.
4. Select **Use the following IP address** and enter the static IP address and other parameters.



1. Click **Save**. The camera can now be accessed with the configured IP address.

4. The Web Interface

Once you log in the Web interface, you will see the live view as shown below.

Note: Main stream, local recording, two-way audio, and the preview mode switch (real-time / balanced / fluent mode) are only supported in the browsers supporting plugins.

Before you view the live image, set the stream mode and installation method as needed (see *3.1.5 Configuring Fisheye Parameters* in the user's manual for details). In the live mode, the different streams and live view modes can be switched as needed.



The following table is the instructions of the icons on the live view interface.

Icon	Description	Icon	Description
	Select live preview mode		Zoom out
	Original size		PTZ control
	Fit correct scale		Rule information display
	Adapt		Sensor alarm indicator
	Full screen		Motion alarm indicator
	Start/stop live view		Line Crossing indicator
	Start/stop two-way audio (only available in the browsers supporting plugins)		Region Intrusion indicator
	Enable/disable audio		Region Entrance indicator
	SD card recording indicator		Region Exiting indicator

Icon	Description	Icon	Description
	Snapshot		Target Counting by Line indicator
	Start/stop local recording (only available in the browsers supporting plugins)		Crowd density indicator
	Zoom in		Heat map indicator

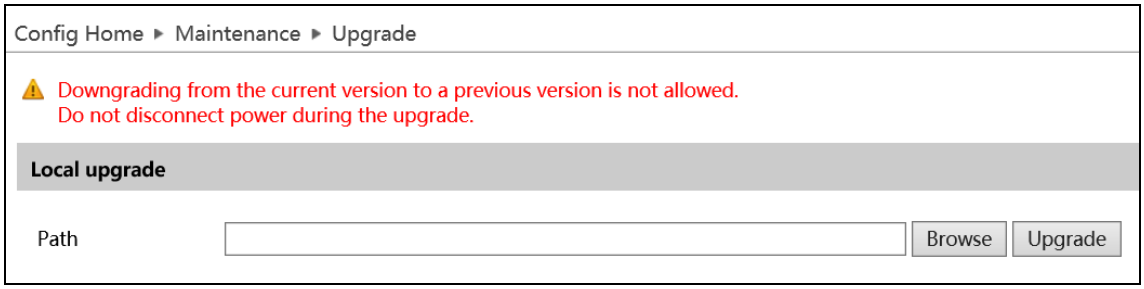
For detailed information, see *Chapter 2 Live View* in the user's manual.

5. Upgrading System Firmware

GeoVision periodically releases updated firmware on the company website. To load the new firmware into the camera, follow the instructions below.

Using Camera's Web Interface

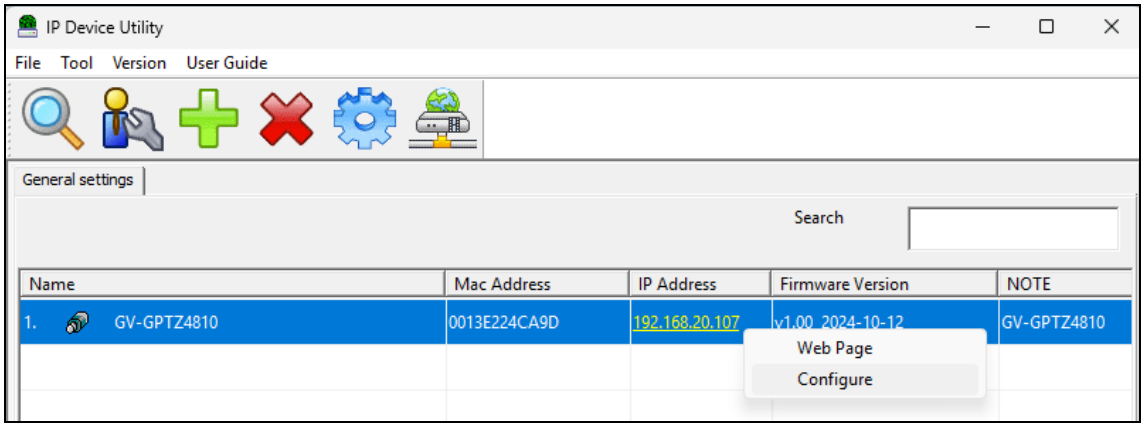
1. On the Web interface, click **Config** > **Maintenance** > **Upgrade.**



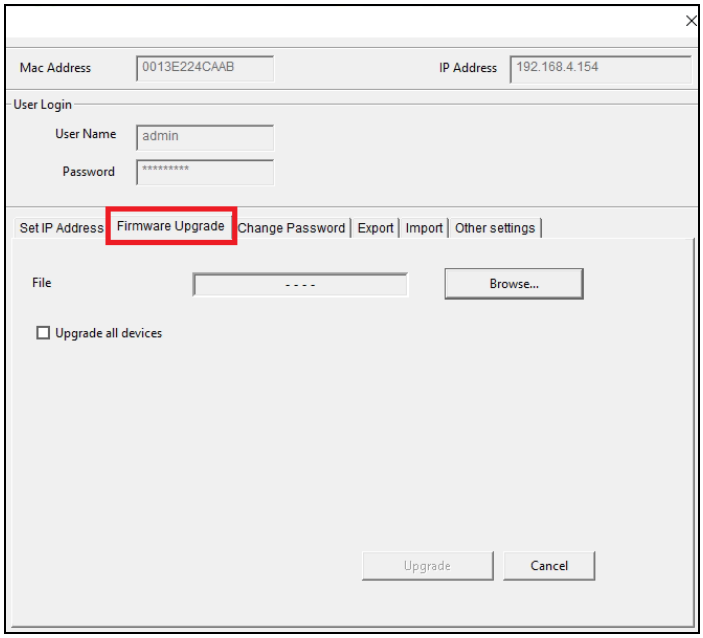
2. Click **Browse** to locate the firmware file saved at your local computer.
3. Click **Upgrade** to start upgrading the firmware.
4. After upgrading, the camera will restart automatically.

Using GV-IP Device Utility

1. On the GV-IP Utility window, find the camera with its Mac Address, click on its IP address, and select **Configure**. The login credentials are requested.



2. Click the **Firmware Upgrade** tab, click the **Browse** button to locate the firmware file saved at your local computer.



3. Click the **Upgrade** button to start upgrading the firmware.
4. After upgrading, the camera will restart automatically.

6. Restoring to Factory Default

If for any reason the camera is not responding correctly, you can restore the camera back to its factory default settings using the Web interface or the Reset Button.

On the Camera

1. Find the **Default** button on the camera (see *1.1 Camera Overview*).
2. Press and hold the button for more than 10 seconds to restore to factory default settings.

On the Web Interface

1. On the Web interface, click **Config** >**Maintenance** > **Backup and Restore**.
2. Click **Restore Factory Settings** and then verify the password to restore all system settings to the default factory settings. Or, select **Keep Image Configuration** to retain passwords and image configurations after restoring defaults.

