GeoVision inc.

The Vision of Security

Quick Start Guide

GV-IP Camera

- GV-ABL / TBL Series
- GV-ADR / TDR Series
- GV-AVD / TVD Series
- GV-BLFC5800
- GV-EBD Series
- GV-EBDP / TBLP Series
- GV-EBFC5800
- GV-FER5702
- GV-PTZ5810-IR
- GV-TFD Series
- GV-TMS8800

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

UBN-QG-ZG

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

[Warranty]   **[Technical Support Policy]**

Note for Connecting to GV-VMS / DVR / NVR

The GV-IPCAM is designed to work with and record on GV-VMS / DVR / NVR, a video management system.

- Once the camera is connected to the GV-VMS / DVR / NVR, the resolution set on the GV-VMS / DVR / NVR 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-VMS / DVR / NVR is interrupted.

- The login password of the camera cannot contain the character "&" or any whitespace when connecting to GV-VMS.

- The Video Analytic features under Intelligent (See *3.6 Intelligent* in the *User's Manual*) cannot be integrated with GV-VMS / DVR / NVR
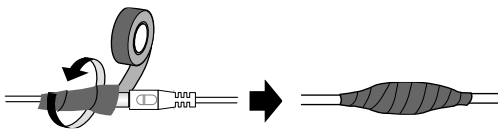
Note for Installing Camera Outdoor

When installing the camera outdoor, be sure that:

1. The camera is set up above the junction box to prevent water from entering the camera along the cables.
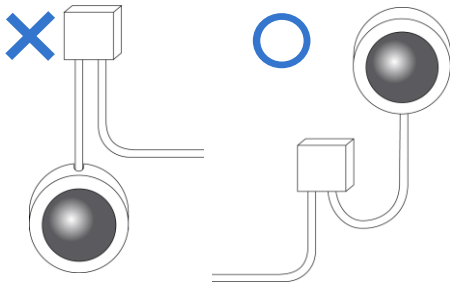
2. Any PoE, power, audio and I/O cables are waterproofed using waterproof silicon rubber or the like.

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

Note for Powering the Camera

The camera is powered by PoE. If you want to power the camera using the power connector, an optional power adapter is required.

Note for Face Detection

To use the camera's built-in face detection feature (see *3.6.1.7 Face Detection* in the *User's Manual*), which is only supported by certain models, it is recommended to install the camera according to the criteria listed below
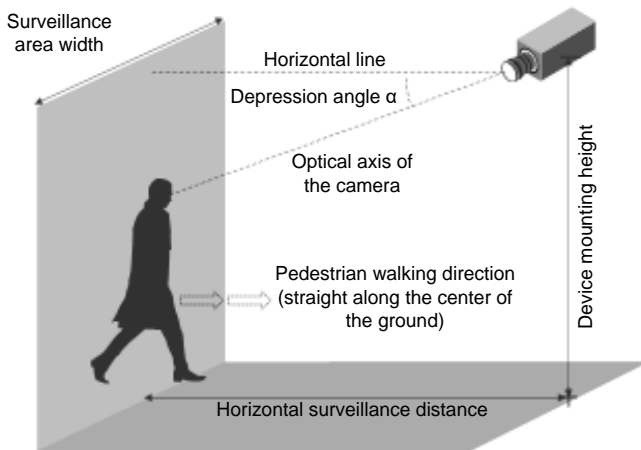
Surveillance Condition

- The camera shall be installed at a site with uniform, sufficient lighting, where the face(s) to be detected are fully illuminated.

Example of Recommended Scene	Example of Non-recommended Scene

Camera Position

- The camera shall be mounted at a recommended height of 2.5 ~ 3 m (8.2 ~ 9.84 ft).
- The camera shall be mounted with a recommended depression angle of around 10°.
- The camera shall be positioned so that the face(s) to be detected are directly aligned with the lens of the camera, with a horizontal deviation of no greater than 30°, a vertical deviation of no greater than 15° and a face size of at least 120 pixels.

Note for People Counting

To use the camera's built-in people counting feature (see *3.6.1.8 People Counting* in the *User's Manual*), which is only supported by certain models, it is recommended to install the camera according to the criteria listed below:

Surveillance Condition

- The camera shall be installed at a site with uniform, sufficient lighting, where the person(s) to be counted are fully illuminated.

- The camera shall be installed at an entrance or exit with an ideal width of 1 ~ 4 m (3.28 ~ 13.12 ft), where the persons(s) to be counted move toward the lens of the camera in single file.

Example of Recommended Scene	Example of Non-recommended Scene

Camera Position

- The camera shall be mounted at a recommended height of 3 ~ 5 m (9.84 ~ 16.4 ft).

- The camera shall be mounted with a recommended depression angle of 70 ~ 80°.

- The camera shall be positioned so that the person(s) to be counted face toward the lens of the camera and are displayed on the image with a shoulder size of between 120 ~ 160 pixels.
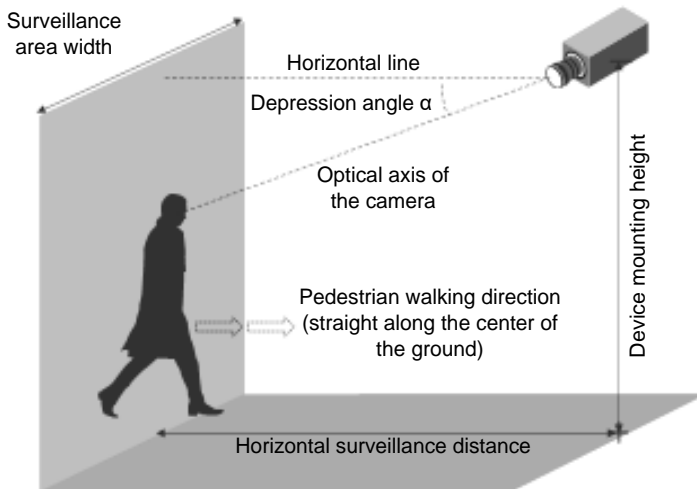
2. GV-ABL / BLFC / TBL / TBLP Series

Camera Type	Model No.
Bullet IP Camera	GV-ABL2701 Series (IP66)
	GV-ABL2702 (IP67 + IK10)
	GV-ABL2703 Series (IP67)
	GV-ABL4701 Series (IP66)
	GV-ABL4703 (IP67)
	GV-ABL4711 (IP67 + IK10)
	GV-ABL4712 (IP67)
	GV-ABL8712 (IP67 + IK10)
	GV-TBL2703 Series (IP67)
	GV-TBL2705 (IP67)
	GV-TBL2706 Series (IP67)
	GV-TBL2718 (IP67)
	GV-TBL4700 (IP67 + IK10)
	GV-TBL4703 (IP67)
	GV-TBL4705 (IP67)
	GV-TBL4710 (IP67 + IK10)
	GV-TBL4711 (IP67 + IK10)
	GV-TBL4810 (IP67 + IK10)
	GV-TBL8710 (IP67 + IK10)
	GV-TBL8804 (IP67 + IK10)
	GV-TBL8810 (IP67 + IK10)
	GV-TBLP5800 (IP67)
	GV-TBLP8800 (IP67)
	GV-BLFC5800 (IP67 + IK10)

2.1 Packing List

The packing list varies depending on the model. **Product details can be found on the datasheet.**

- Bullet IP Camera

- Waterproof Rubber Set
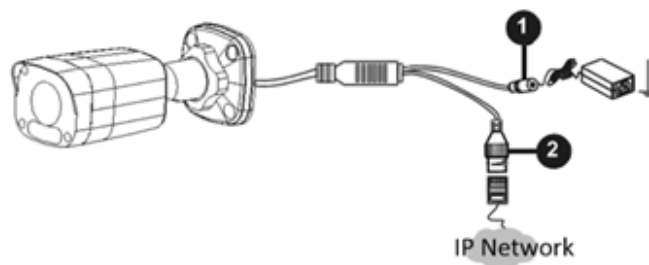

- Screw Kit

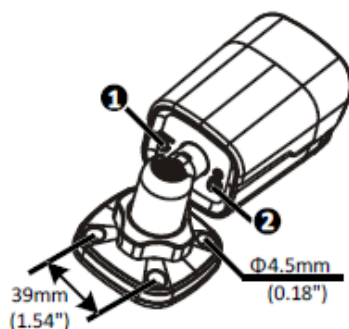- Drill Template Paster

- Download Guide

- Torx Wrench (not available for all models)

2.2 Overview

2.2.1 GV-ABL2701 / 2703 / 4701 / 4703 & TBL2703 / 2705 / 2706 / 2718 / 4703 / 4705 / 8804, TBLP5800 / 8800

No.	Description
1	Power connector (DC 12 V)
2	Ethernet connector / PoE

No.	Description	No.	Description
1	Load Default button	2	Grounding screw (**GV-TBL8804**)

**Note:** The Load Default button is for GV-ABL2703 / 4703 & GV-TBL2703 / 4703 / 8804 only.

	GV-TBL8804	**GV-TBL2705 / 2706 / 4705**
GV-TBL4807	**GV-TBLP5800**	**GV-TBL2718**

No.	Description	No.	Description
3	Default button / SD card slot	10	Built-in microphone x 2 (GV-TBL4807)
4	Built-in speaker (GV-TBL8804)	11	IR LED x 4 (GV-TBL4807)
5	Built-in microphone (GV-TBL8804)	12	IR LED x 2 (GV-TBLP5800 / 8800) Built-in microphone (GV-TBLP5800 / 8800)
6	Warm LED x 2 (GV-TBL8804)	13	Built-in microphone (GV-TBLP5800 / 8800)
7	IR LED (GV-TBL8804)	14	Built-in microphone (GV-TBL2718)
8	Built-in microphone (GV-TBL2705 / 2706 / 4705)	15	IR LED x 3 (GV-TBL2718)
9	IR LED x 2 (GV-TBL2705 / 4705) IR LED x 1 (GV-TBL2706)		

Note:

1. The Default button is only available in the following models: GV-ABL2703 / 4703, GV-TBL2703 series / 2718 / 4703 / 4807 / 8804, and GV-TBLP5800 / 8800.

2. If the Default button doesn't respond after pressing for 15 seconds, reboot the camera and try again within 10 minutes of rebooting.

3. For safety precautions, it is recommended to connect a grounding wire to the grounding screw, and do not loosen or remove the grounding screw under any circumstances.

![GeoVision Inc. logo]

2.2.2 GV-ABL2702 / 4711 / 4712 / 8712, TBL4700 / 4710 / 4711 / 4807 / 4810 / 8710 / 8810, and BLFC5800
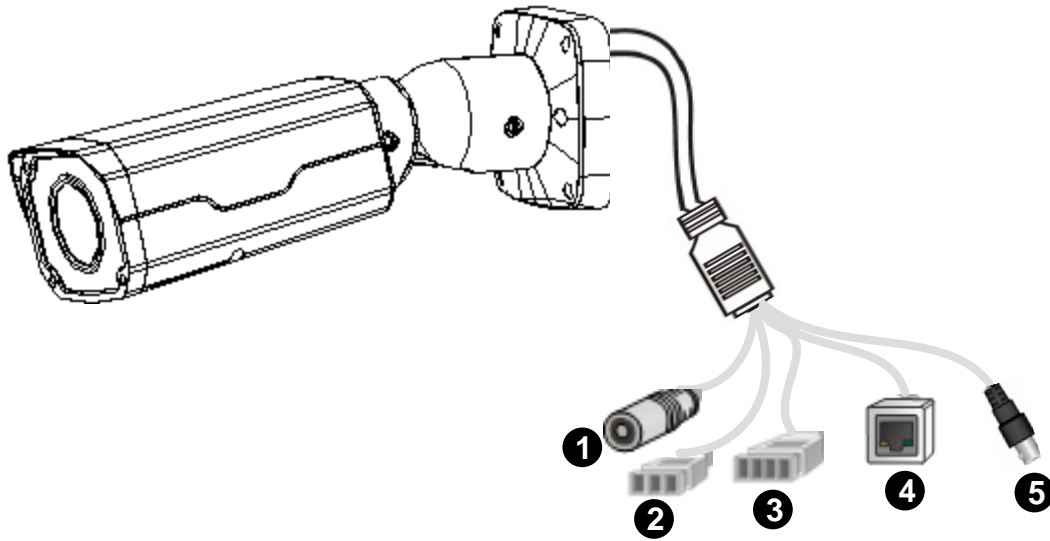
No.	Description
1	Power connector (DC 12 V)
2	Audio input / output / GND
3	Alarm input (IN, GND) / output (N, P)
4	Ethernet connector / PoE
5	Video Output (**GV-ABL8712 / TBL8710** Only)

Note: GV-TBL4807 does not have the terminal blocks for audio input / output (No. 2) and alarm input / output (No. 3). Instead, it features 4 wires for connecting alarm input and output devices.

2.3   Installation

The Bullet IP Camera is designed for outdoors. With the standard package, you can install the camera on the wall or ceiling. Or, you can purchase optional mounting accessories to mount your camera on a wall.

Below are the instructions for **Wall Mount**. There are two kinds of Wall Mount: **Concealed Installation** and **Open Installation**. In Concealed Installation, the cables are hidden in the wall. In Open Installation, the cables are led out from the open slot on the base.

For Concealed Installation
Note that the following camera illustrations may differ between models.

1.   Optionally loosen the two screws at the bottom of the camera to insert a SD card.
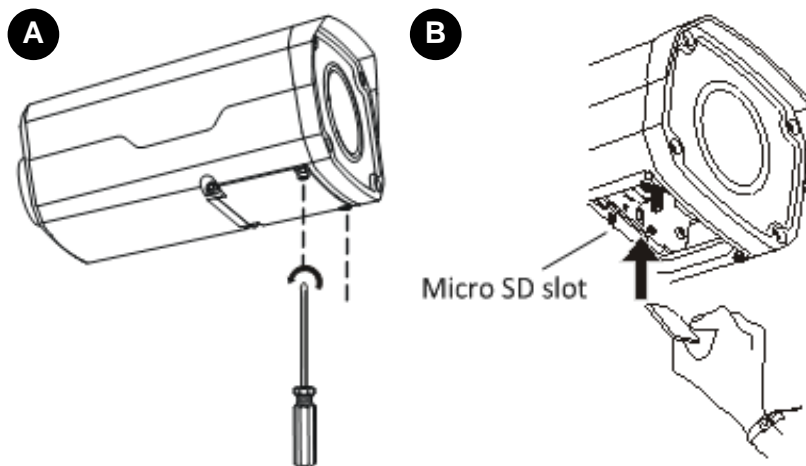
2.   Stick the drill template paster to the wall and align the cross center to the hole in the wall.

3. Lead the cables across the hole on the wall.
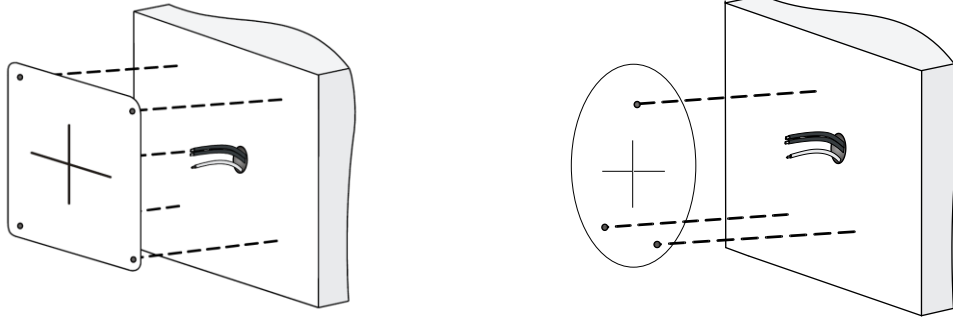
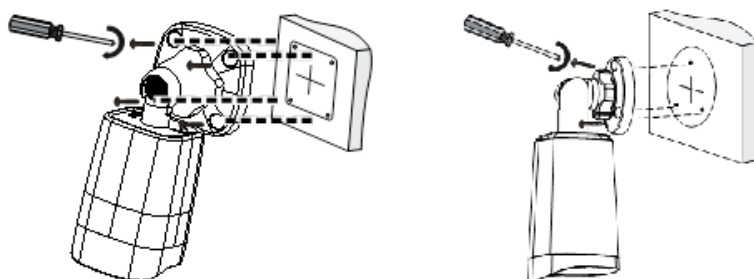4. Drill the holes according to the drill template.
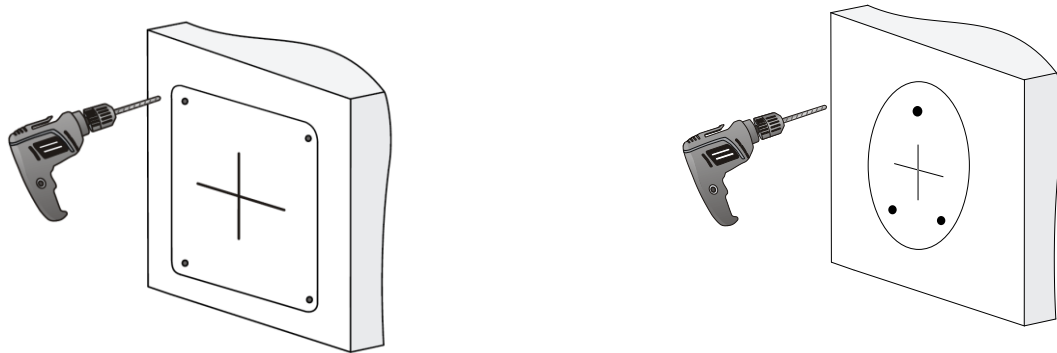
5. Insert the screw anchors.
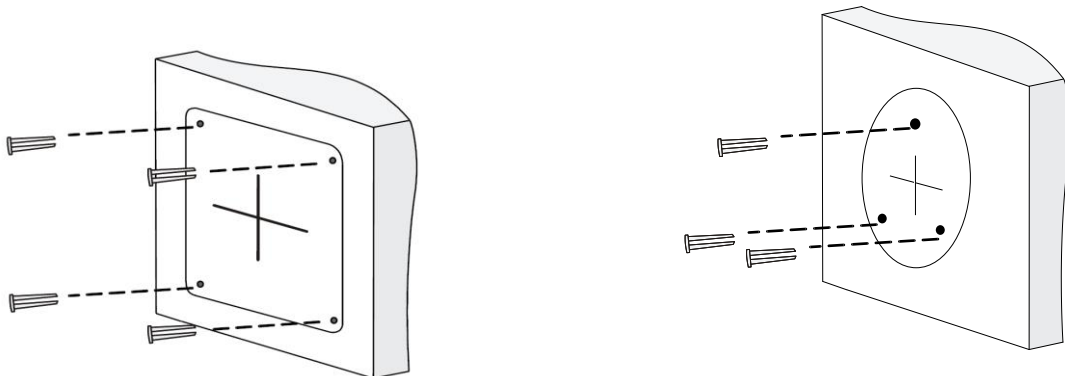
6. Screw the locknut and loosen the universal joint before attaching the camera to the wall.
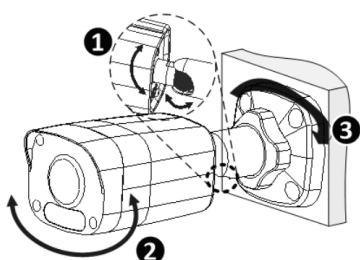

Locknut
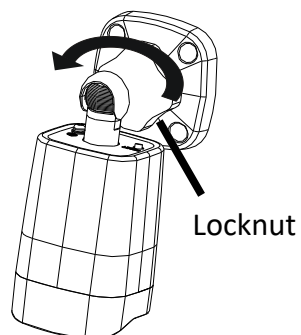
7. Secure the camera to the wall and connect all cables.

Lead tapping screws through the guide holes in the base and fix them on the wall by using a screwdriver.

8. To adjust the monitoring direction:
   GV-ABL2702 / 4711 / 4712 / 8712, **TBL2705 / 2706 / 4700 / 4705 / 4710 / 4711 / 4807 / 4810 / 8710 / 8804 / 8810,** and **BLFC5800**

❶ Adjust the opening of the universal joints as required.

❷ Rotate the spherical hinge of the camera to get the desired monitoring direction.

❸ Tighten the locknut.

GV-TBL8804 and GV-TBLP5800 / 8800

① Loosen the screw to rotate the camera.

② Loosen the screw to move the camera upward or downward.

③ Loosen the locknut to rotate the camera.

For Open Installation

Lead the cables out from the open slot on the base before screwing the camera to the wall as shown in step 6 in *For Concealed Installation*.

9. Accessing the Camera

9.1 System Requirements

Once installed, your camera is accessible over the network. Make sure your PC has good network connection and meet the following requirements:

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)
Web Browsers	● Internet Explorer 11.0 or above ● Google Chrome ● Microsoft Edge ● Mozilla Firefox ● Safari

Note:

1. Some functions are not available on non-IE browsers, e.g., Local Parameters (see *3.1.2 Local Parameters* in the *User's Manual*) is not supported by Google Chrome.

2. Non-IE browsers supporting complete functions include Google Chrome 45.0 or later, Microsoft Edge 52.0 or later, and Mozilla Firefox 79 or later.

3. The following models support complete functions on non-IE browsers:
   GV-BLFC5800, GV-EBD2705 / 4704 / 4813 / 8800 / 8813, GV-EBDP5800, GV-EBFC5800, GV-FER5702 (V1.06 or later), GV-TBL2706 / 4705 / 4807 / 4810 / 8804 / 8810, GV-TBLP5800, GV-TDR2705 / 4704 / 4803 / 8805, GV-TFD4800, GV-TMS8800, GV-TVD4810 (V1.05 or later) / 4811 / 8810, GV-PTZ5810-IR (V1.02 or later).

4. Live view is not supported on Safari for the following models: GV-BLFC5800, GV-EBD4704 / 4813 / 8800 /8813, GV-EBDP5800 / 8800, GV-EBFC5800, GV-FER5702, GV-PTZ5810-IR, GV-TBL2705 / 2718 / 4705 / 4807 / 4810 / 8804 / 8810, GV-TBLP5800 / 8800, GVTDR2704-2F / 4704-2F / 4704-4F / 4803-2F / 8805, GV-TFD4800, GV-TVD2712 / 4810 / 4811 / 8810.

9.2 Looking Up the Dynamic IP Address

By default, when the camera is connected to LAN a with DHCP server, it is automatically assigned with a dynamic IP address. Follow the steps below to look up its IP address.

Note:

1. The computer you use to configure the IP address must be under the same LAN as your camera.

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

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1. Download and install the **GV-IP Device Utility** program from the company website.

2. On the GV-IP Utility window, click the 🔍 button to search for the IP devices connected in the same LAN. Click the **Name** or **Mac Address** column to sort.

3. Find the camera with its Mac Address, click on its IP address.
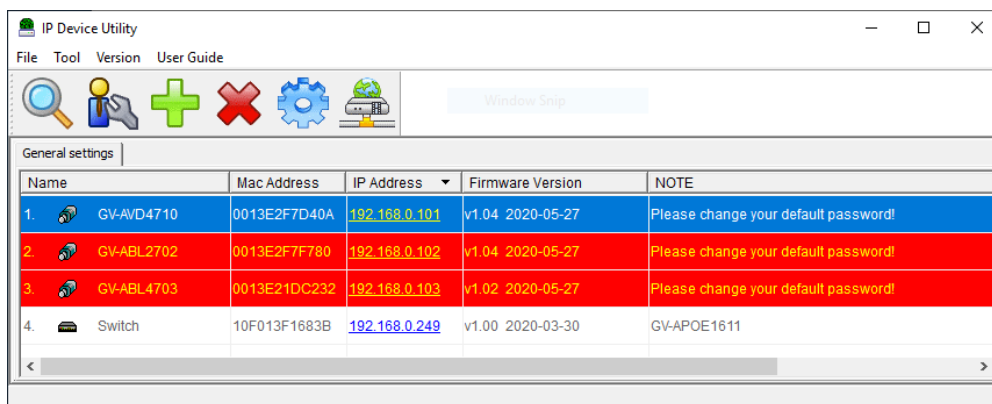
4. For the first-time users, you will be requested to set up a password.

5. Type a new password and click **OK**.

6. Type your username and password on the login page and click **Login**.

9.3   Configuring the IP Address

If the camera is connected to a LAN without DHCP server, the default IP address will be **192.168.0.10**. Follow the steps below to modify the IP address to avoid IP conflict with other GV-IP devices on the same LAN.

1. Open your Web browser, and type the default IP address **192.168.0.10**.

2. Type your username and password. Click **Login**.

3. Click **Setup**, select **Common** in the left menu and select **Network**.

4. Select **Static** from the **Obtain IP Address** drop-down list.

5. Enter the IP address, subnet mask, and default gateway address. Make sure that the IP address of the camera is unique in the network.

6. Click **Save**.

10. The Web Interface

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

GV-TMS8800

No.	Name	Function
1.	Proportional	Set the display ratio of the image. ■ **Scale:** display images by 16:9. ■ **Stretch:** display images by window size. ■ **Original:** display images in its original size.
2.	Display Mode	Set the display mode in the window. ■ **Single Channel:** display live video of a single channel. ■ **Left/Right Split:** display live video in left / right split mode. ■ **Top/Bottom Split:** display live video in top / bottom split mode. ■ **Picture in Picture:** open a floating live view window on top of the current window.

3.	Stop / Start Live View	Stop/start live view of the selected channel.
4.	Local Recording	Stop/start local recording.
5.	Live Stream	Select a live video stream: main stream, sub stream or third stream (when enabled).
6.	Image	Open the image setting page. – See 3.5.1 Image.
7.	Play/Stop	Play or stop live video. This is the same function as No. 3.
8.	Video Volume	Adjust the audio output volume on the PC.
9.	Microphone	Enable 🎤 or disable 🎤 microphone.
10.	Microphone Volume	Adjust the microphone volume on the PC during audio communication between the PC and the camera.
11.	Snapshot	Take a snapshot of the current image displayed on the PC.
12.	Local Recording	Stop/start local recording. This is the same function as No. 4.
13.	Two-way Audio	Start 🎤 or stop 🎤 two-way audio.
14.	Digital Zoom	Enable 🔍 or disable 🔍 digital zoom. – See 2.2.1 Digital Zoom.
15.	Face Snapshot	Start 👤 or stop 👤 face snapshot. By activating this function, the camera takes face snapshots, and displays them on the right of the live view window. Before activating this function, you must enable **Face Detection** - See *3.6.1.7 Face Detection*.
16.	Full Screen	Display in full screen mode.

Note:

1. To configure individual channel separately, click on the corresponding live view before proceeding with the configurations.

2. The paths for saving snapshots and local recordings are set in Local Settings. See *3.1.2 Local Parameters*.

Other Models

No.	Name	Function
1	Proportional	Set the display ratio of the image. • Scale: display images by 16:9. • Stretch**:** display images by window size. • Original: display images in its original size.
2	Live Stream	Select a live video stream: main stream, sub stream or third stream (when enabled).
3	Image	Open the image setting page. – See *3.5.1 Image* in the *User's Manual*.
4	Zoom +/-	Only for **models with motorized varifocal lens**, increase or decrease the camera's optical zoom.
5	Focus +/-	Only for **models with motorized varifocal lens**, increase or decrease the camera focus.
6	General Parameters	Only for **GV-EBD2704, EBD2705, TBL2705, TBL2706, TDR2704, TDR2705**. Configure the parameters for image enhancement and exposure. See *3.5.1 Image* in the User's Manual for details.

| 7	Play/Stop	Play or stop live video.
8	Video Volume	Only for **audio-supporting models**, adjust the audio output volume on the PC.
9	Microphone	Only for **audio-supporting models**, enable 🎤 or disable 🎤 microphone.
10	Microphone Volume	Only for **audio-supporting models**, adjust the microphone volume on the PC during audio communication between the PC and the camera.
11	Calculate Pixels	Only for **GV-EBD2704, EBD2705, TBL2705, TBL2706, TDR2704, TDR2705**. Enable and drag the mouse on the desired object on the live view to calculate its size in pixels.
12	Snapshot	Take a snapshot of the current image displayed on the PC.
13	Local Recording	Start 🎬 or stop 🎬 local recording.
14	Two-way Audio	Only for **two-way-audio-supporting models**, start 🎤 or stop 🎤 two-way audio.
15	Digital Zoom	Enable 🔍 or disable 🔍 digital zoom. – See *2.2.1.1 Digital Zoom* in the *User's Manual*.
16	Face Snapshot	Only for **face-snapshot-supporting models**, start 👤 or stop 👤 face snapshot. By activating this function, the camera takes face snapshots, and displays them on the right of the live view window. Before activating this function, you must enable **Face Detection** - See *3.6.1.7 Face Detection*.
17	Full Screen	Display in full screen mode.
18	Control Panel	Hide or show the camera's optical zoom and focus or the general parameter functions.
19	🔵	Reset the packet loss rate to zero.
20	📌	Click to always display packet loss rate and bit rate information at the bottom. Click again to restore to only displaying the information for 3 seconds when the mouse cursor is moved onto the live view.

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> **Note:**
>
> 1. The paths for saving snapshots and local recordings are set in Local Settings. See *3.1.2 Local Parameters* in the *User's Manual*.
>
> 2. The No. 19 and 20 buttons will appear on the floating toolbar when you move the mouse cursor onto the live view.

11. Upgrading System Firmware

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

1. At the top of the Web interface, click **Setup.**

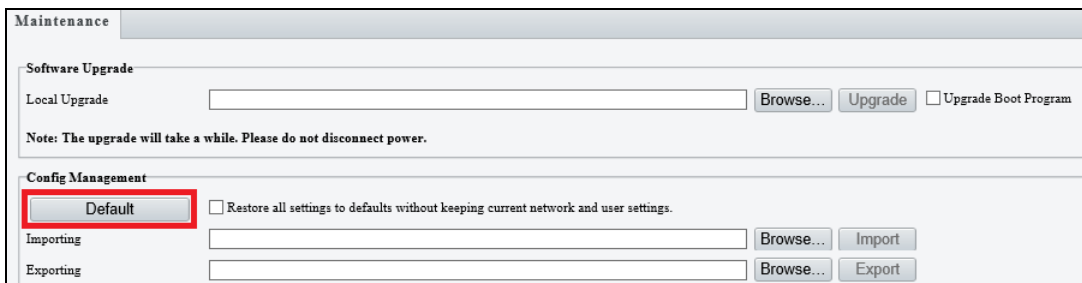2. In the left menu, select **System** and select **Maintenance**. This page appears.
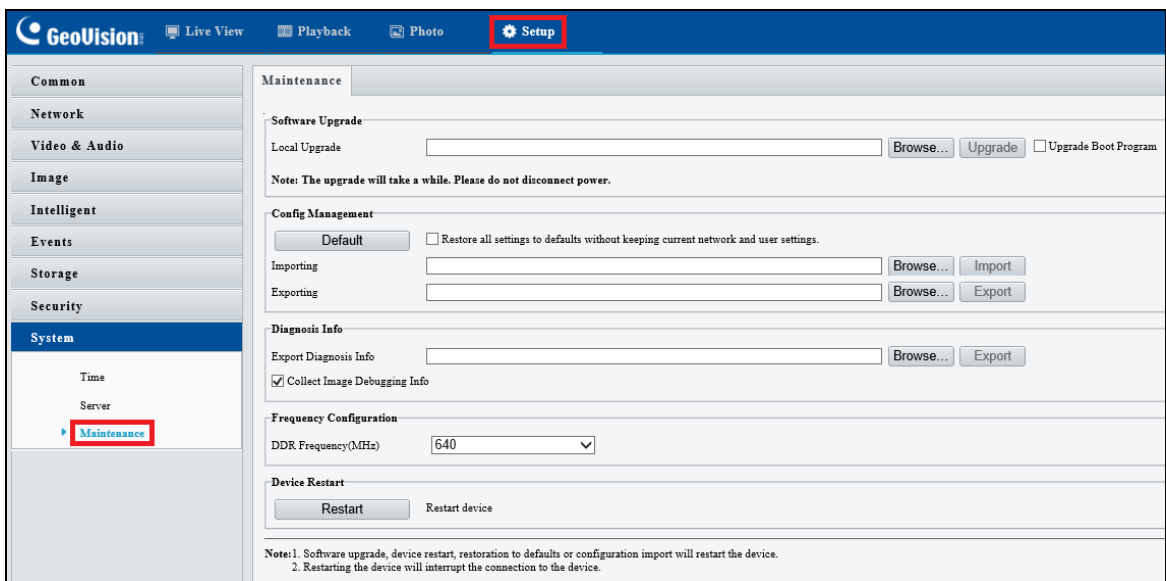
3. Click **Browse** under **Software Upgrade** to locate the firmware file (.zip) saved at your
   local computer.

4. Click **Upgrade** to process the upgrade.

12. 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 Default button.

To use the Web interface:

1. In the Web interface, click **Setup**.

2. In the left menu, select **System** and select **Maintenance**.

3. Under the Config Management section, click **Default**.

Note:

1. Only the following models have a default button: **GV-ABL2703 series** / **4703**, **GV-AVD2700** / **4710** / **8710**, **GV-EBD4711** / **4712** / **8711 / 8813**, **GV-EBDP5800 / 8800**, **GV-FER5702, GV-PTZ5810-IR**, **GV-TBL2703 series** / **2718** / **4703 / 4807 / 8804, GV-TBLP5800 / 8800, GV-TFD4700 / 4800, GV-TMS8800,** and **GV-TVD2712 / 4700** / **4710** / **4711** / **4811** / **8710 / 8810**. For where the button is on the camera, see the *Overview* section in their respective chapters.

2. If the default button doesn't work after pressing for 15 seconds, reboot the camera and try again within 10 minutes of rebooting.

13. Connecting to UA-SNVR / HD DVR / GV-RNVR

To access the dual-sensor live view from GV-TMS8800 on UA-SNVR / HD DVR, GV-RNVR, follow the instructions below.

1. On the Web interface of UA-SNVR / HD DVR, or GV-RNVR, go to **Remote Setting > Channel > Channel**.
2. At the bottom of the page, click **Quick Add**. All devices on the same LAN will be displayed.
3. Find GV-TMS8800 on the list, adjust the channel number to 2, and click the plus sign ⊕.

4. Select both of the channels on the popup window and click **OK**.
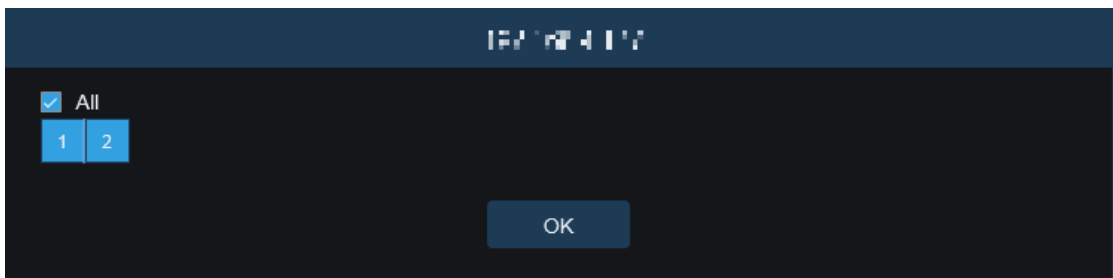
5. Select the GV-TMS8800 on the list, and fill in the username and password at the bottom of the page, and click **Add**.