GeoVision inc.
The Vision of Security

Quick Start Guide

GV-IP Camera

- GV-EBD4700 / 4711 IR Eyeball IP Dome
- GV-ABL2701 / 4701 / 4712 IR Bullet IP Camera
- GV-ADR2701 IR Mini Fixed Rugged IP Dome
- GV-AVD4710 IR Vandal Proof IP Dome

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

UBN-QG-A

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

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Contents

Note for Connecting to GV-VMS/ DVR / NVR

The GV-IPCAM in this Quick Start Guide is designed to work with 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.
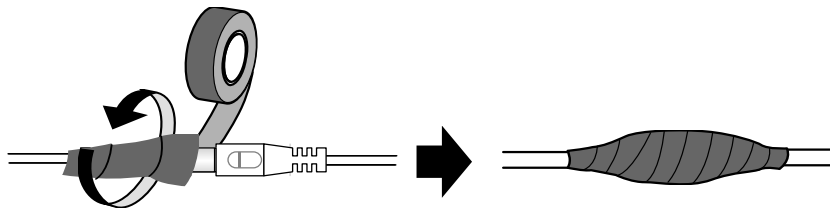
Note for Installing Camera Outdoor

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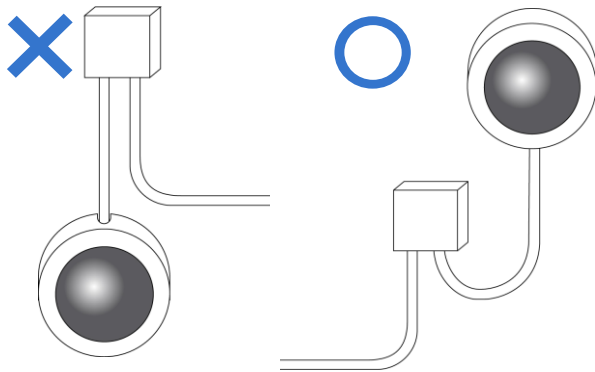
2. Any PoE, power, audio and I/O cables are waterproofed using waterproof silicon rubber or the like.

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

1. GV-EBD2702 / 4700 / 4711

The H.265 Target Eyeball Dome is an outdoor, network camera equipped with an automatic IR-cut filter and IR LEDs for day and night surveillance. GV-EBD2702 / 4711 adheres to IP67 standards, whereas GV-EBD4700 adheres to IP66. The camera supports H.265 video codec to achieve better compression ratio while maintaining high quality image at reduced network bandwidths. With its WDR Pro (WDR for GV-EBD2702), it can process scenes with contrasting intensity of lights and produce clear image.

For **GV-EBD4711**, with its motorized lens, the user can zoom and focus the camera from the Web interface. The camera also provides built-in micro SD card slot for local storage.

Model No.		Specifications	Description
GV-EBD2702	Fixed lens	Fixed Iris, f: 2.8 mm, F/1.8, M12 Lens Mount	2 MP, H.265, Low Lux, WDR
GV-EBD4700	Fixed lens		4 MP, H.265, Low Lux, WDR Pro
GV-EBD4711	Motorized varifocal lens	Fixed Iris, f: 2.7 ~ 12 mm, F/1.4, M12 Lens Mount	4 MP, H.265, Low Lux, WDR Pro

1.1 Packing List

- H.265 Target Eyeball Dome

- Screw x 3
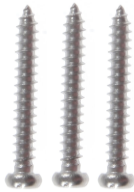
- Screw Anchor x 3

- Drill Template Paster

- Waterproof Rubber Set

- Download Guide

- Warranty Card

1.2 Optional Accessories

Optional accessories can expand the capabilities and versatility of your GV-EBD2702 / 4700 / 4711. Contact your dealer for more information.

Model Number	Name	Details
GV-Mount211P	Wall Mount Bracket	Dimensions: 233 x 126 x 126 mm (9.2" x 5" x 5") Weight: 1.0 kg (2.2 lb)
GV-Mount212P	Wall Box Mount	Dimensions: Ø126 x 36mm (5.0" x 1.4") Weight: 0.22 kg (0.48 lb)
GV-PA191	Power over Ethernet (PoE) Adapter	GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.
GV-POE Switch	GV-POE Switch is designed to provide power along with network connection for IP devices. GV-PoE Switch is available in various models with different numbers and types of ports.	
Power Adapter	Contact our sales representatives for the countries and areas supported.	

1.3 Overview

1.3.1 GV-EBD2702 / 4700
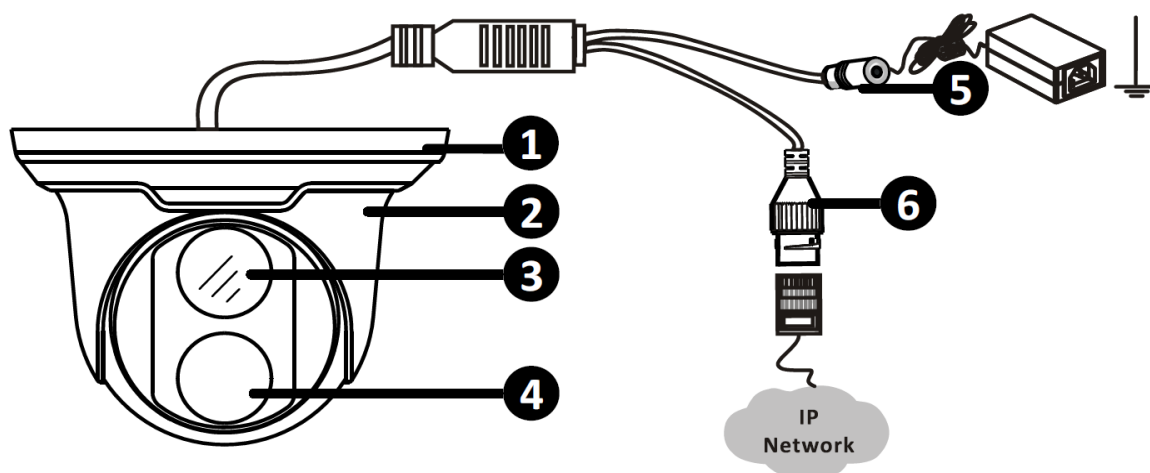
Figure 1-1

No.	Description
1	Bottom ring
2	Housing
3	Lens
4	Infrared indicator
5	Power connector (DC 12 V)
6	Ethernet connector / PoE

Note: To power the camera using the power connector (No.5), an optional power adapter is required.
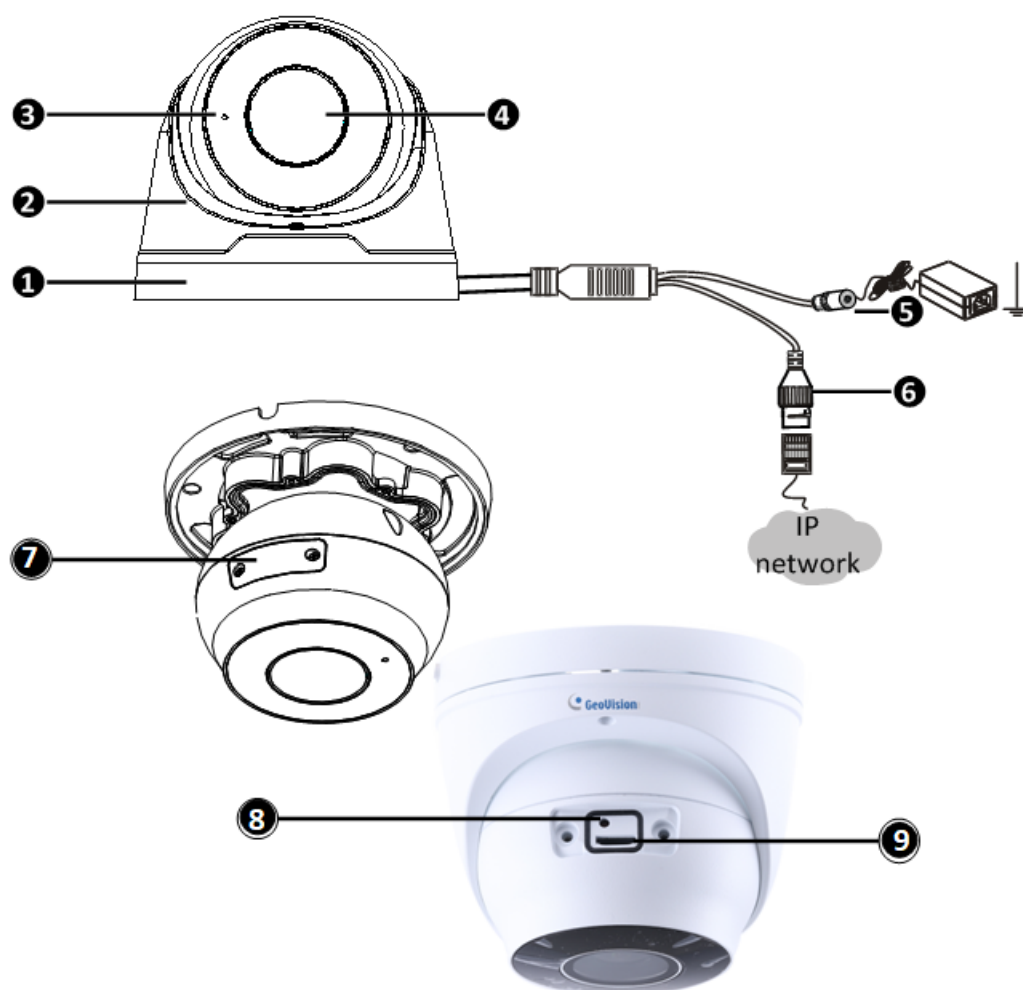
1.3.2 GV-EBD4711

Figure 1-2

No.	Description
1	Bottom ring
2	Housing
3	Microphone
4	Lens
5	Power connector (DC 12 V)
6	Ethernet connector / PoE
7	Micro SD card slot and default button compartment
8	Default button
9	Micro SD card slot

Note: To power the camera using the power connector (No.5), an optional power adapter is required.

1.4 Installation

The Target Eyeball Dome is designed for outdoors. With the standard package, you can install the camera on the ceiling. Or you can purchase optional mounting accessories to mount GV-EBD2702 / 4700 / 4711 on a wall.

Below are the instructions for **Ceiling Mount**. There are two kinds of Ceiling Mount: **Concealed Installation** and **Open Installation**. In Concealed Installation, the cables are hidden in the ceiling. In Open Installation, the cables are led out from the open slot on t he bottom ring.

1.4.1 GV-EBD2702 / 4700 Installation

For Concealed Installation

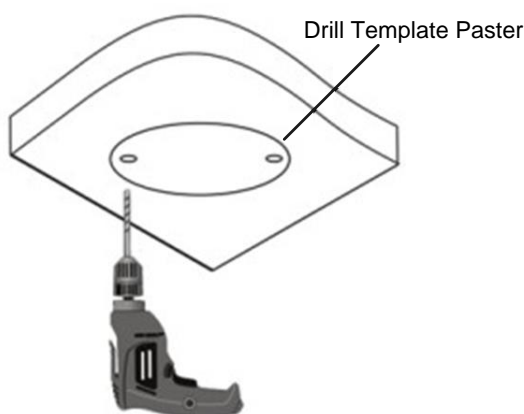1. Stick the drill template paster to the ceiling and drill three holes according to the drill template.

Figure 1-3

2. Insert the screw anchors.

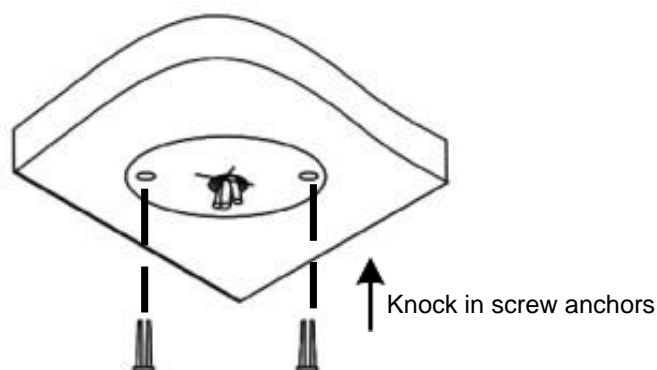*Figure 1-4*

3. Remove the bottom ring by turning it anticlockwise.
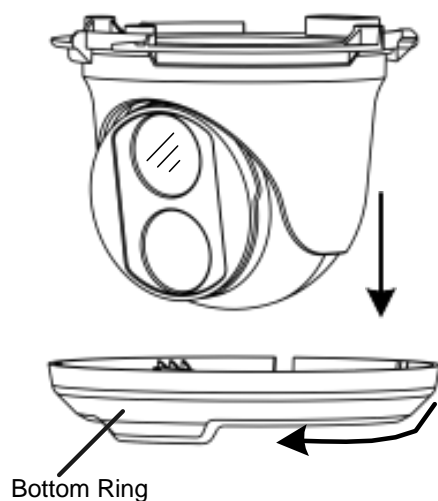
Bottom Ring

Figure 1-5

4. Connect the cables and secure the camera.

Connect the cables and protect them with waterproof tape

Attach the camera to ceiling with screws
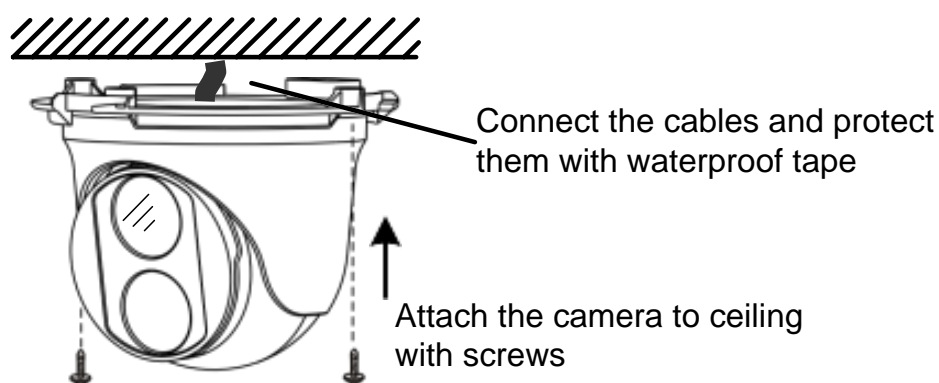
Figure 1-6

5. Adjust the monitoring direction.

The camera can rotate 360 degrees horizontally
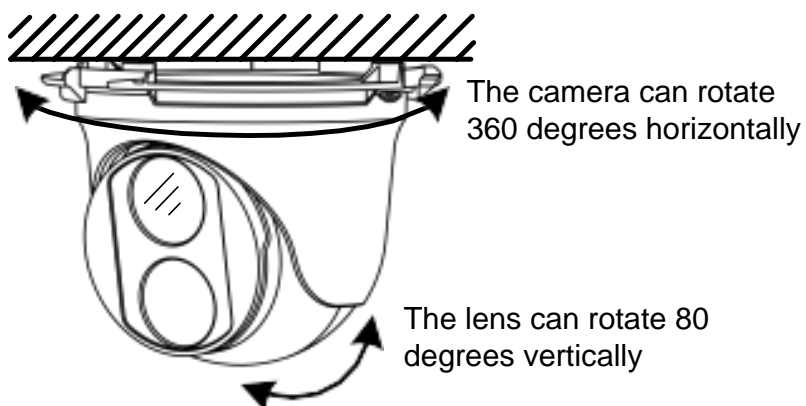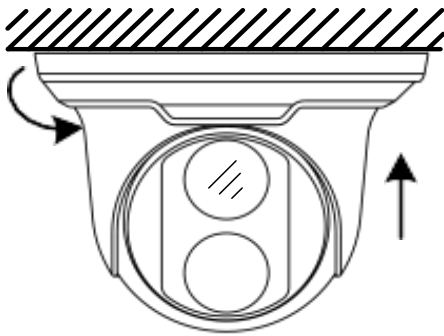
The lens can rotate 80 degrees vertically

Figure 1-7

6. Mount the bottom ring.

Push the bottom ring back up and turn
it clockwise to lock into position

Figure 1-8

For Open Installation

Lead the cables out from the open slot on the bottom ring before screwing the camera
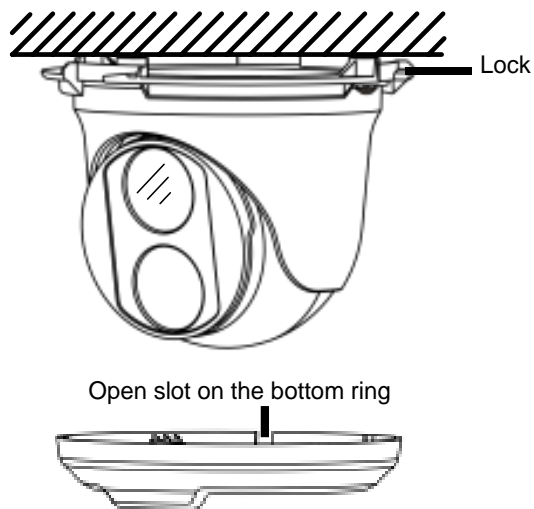to the ceiling as shown in step 4 of Conceal Installation.

Lock

Open slot on the bottom ring

Figure 1-9

1.4.2 GV-EBD4711 Installation

For Concealed Installation

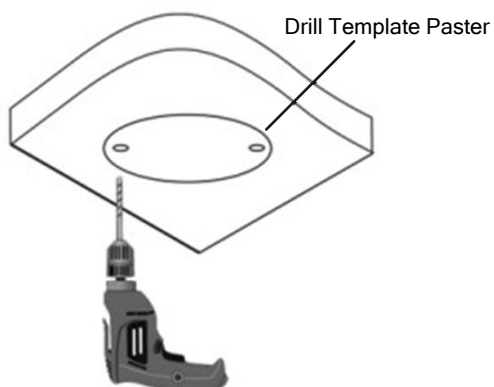1. Stick the drill template paster to the ceiling and drill three holes according to the drill template.

Drill Template Paster

Figure 1-10

2. Insert the screw anchors.

Drill a hole to lead the cables out of the ceiling
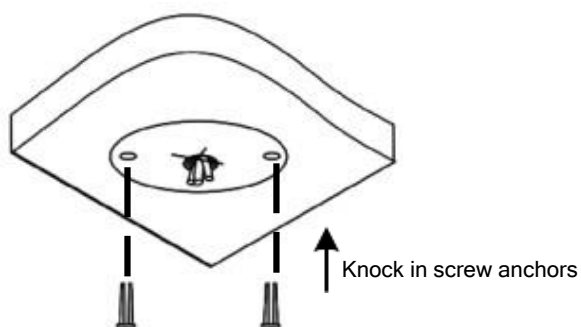

Knock in screw anchors

Figure 1-11

3. Loosen the fixing screw and remove the housing by turning it to the position as shown.

❶
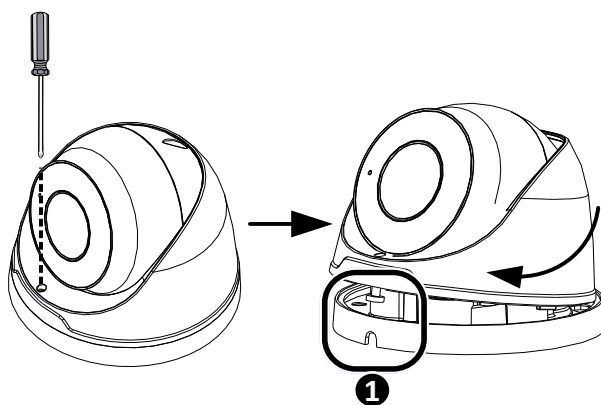
Figure 1-12

4. Secure the bottom ring to the ceiling with 3 supplied screws and connect the cable.

Connect cable and protect it with waterproof tape

(Optional) insert a micro SD card

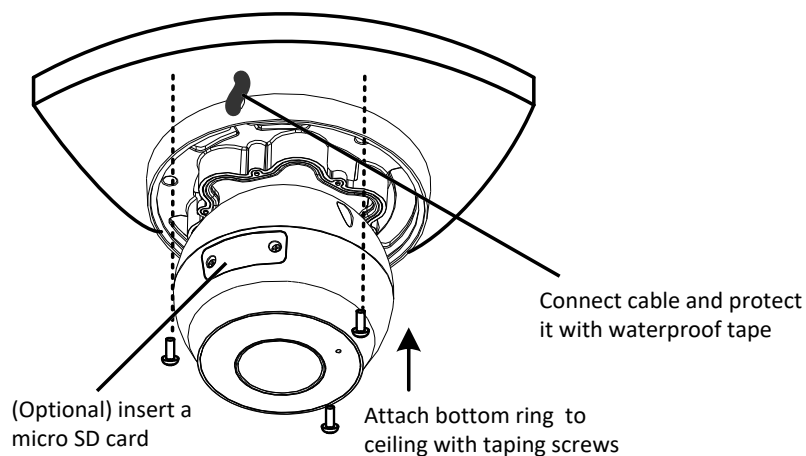Attach bottom ring to ceiling with taping screws

Figure 1-13

5. Mount the housing by adjusting to the position as shown and press and turn to anywhere but ❶.
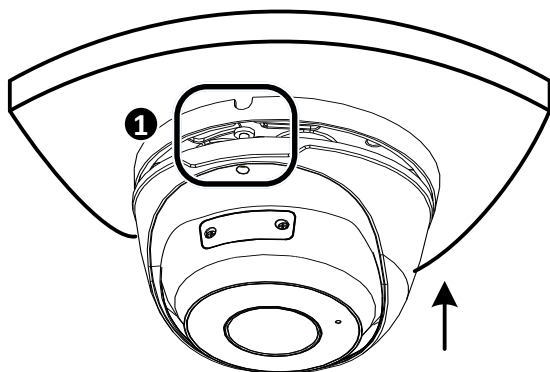

❶

Figure 1-14

6. Adjust the monitoring direction. Then tighten the screw.
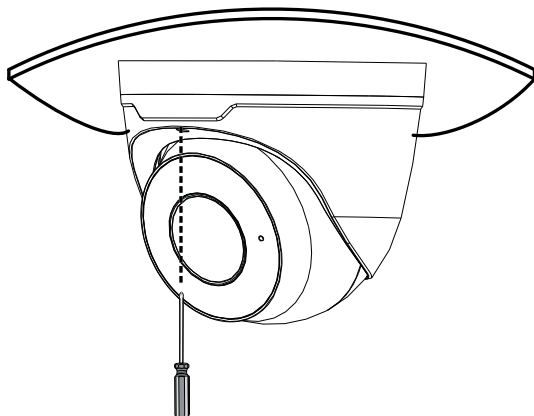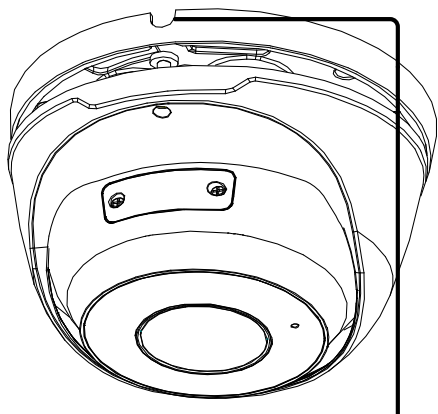

Figure 1-15

For Open Installation

Lead the cables out from the open slot on the bottom ring before screwing the camera to the ceiling as shown in step 5 of Concealed Installation.

Open slot on the bottom ring

Figure 1-16

Note: You can optionally purchase GV-Mount211 or GV-Mount212 for Wall Bracket Mount. For details, see its *User's Manual*.

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2. GV-ABL2701 / GV-ABL4701

The Bullet IP Camera is an outdoor, fixed, network camera equipped with an automatic IR-cut filter and an IR LED for day and night surveillance. The camera supports H.265 video codec to achieve better compression ratio while maintaining high quality image at reduced network bandwidths. The camera adheres to IP66 standards and can be powered through PoE.

Model No.		Specifications	Description
GV-ABL2701	Fixed lens	Fixed Iris, f: 4.0 mm, F/1.8, M12 Lens Mount	2 MP, H.265, Low Lux, WDR
GV-ABL4701	Fixed lens	Fixed Iris, f: 4.0 mm, F/1.8, M12 Lens Mount	4 MP, H.265 Low Lux, WDR
GV-ABL4712	Motorized varifocal lens	Fixed Iris, f: 2.8~12 mm, F/1.4, M14 Lens Mount	4 MP, H.265 Low Lux, WDR Pro

2.1 Packing List
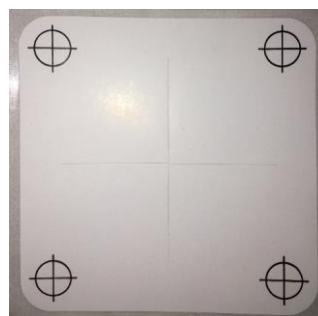
- Bullet IP Camera

- Waterproof Rubber Set

- Screw Kit

- Drill Template Paster

- Download Guide

- Warranty Card

2.2   Optional Accessories

Optional accessories can expand the capabilities and versatility of your camera.
Contact your dealer for more information.

| Model Number	Name	Details
GV-Mount502 (for **GV-ABL2701** / **4701**)	Wall Mount Bracket	Dimensions: 93 x 93 x 39 mm (3.66" x 3.66" x 1.53") Weight: 0.235 kg (0.52 lb)
GV-Mount503 (for **GV-ABL4712**)	Wall Mount Bracket	Dimension: 125 x 125 x 55 mm (4.9" x4.9" x2.2") Weight: 0.74 kg (1.63lb)
GV-PA191	Power over Ethernet (PoE) Adapter	GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.
GV-POE Switch	GV-POE Switch is designed to provide power along with network connection for IP devices. GV-POE Switch is available in various models with different numbers and types of ports.	
Power Adapter	Contact our sales representatives for the countries and areas supported.	

2.3 Overview

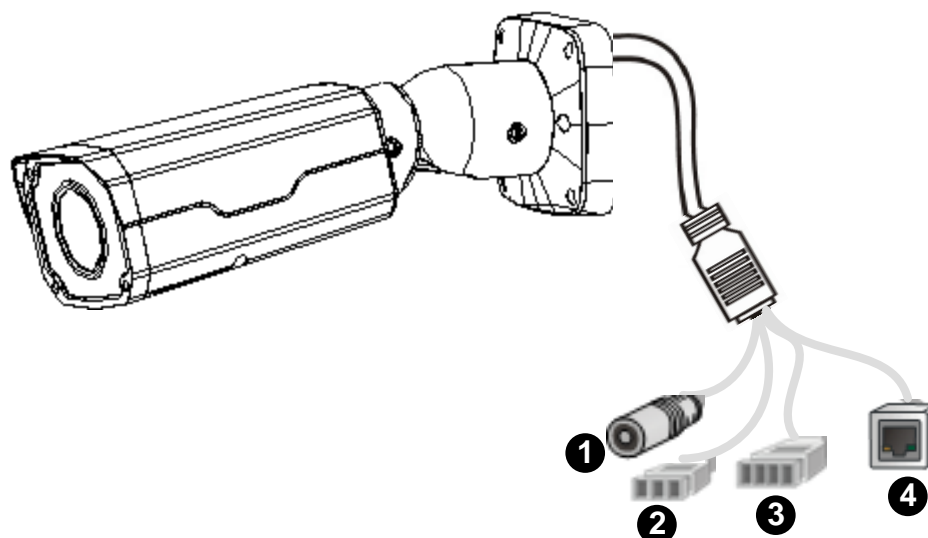### 2.3.1 GV-ABL2701 / 4701
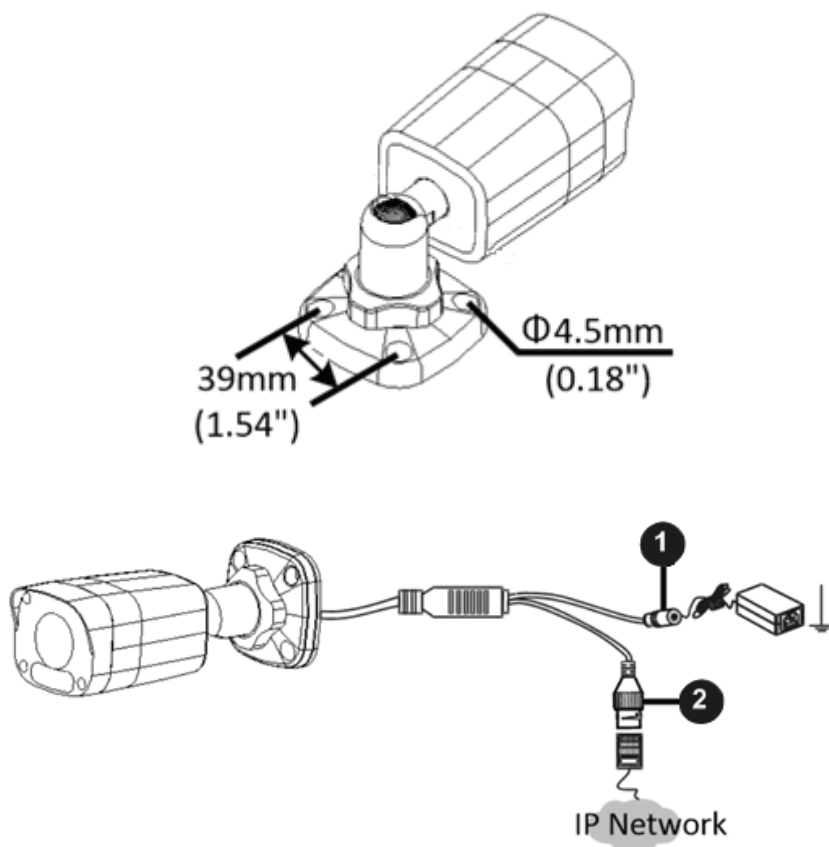
Figure 2-1

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

Note: To power the camera using the power connector (No.1), an optional power adapter is required.

2.3.2 GV-ABL4712

Figre2-2

No.	Description
1	Power connector (DC 12 V)
2	Audio input / Audio output / GND
3	Alarm input (IN, GND) / Alarm output (N,P)
4	Ethernet connector / PoE

Note: To power the camera using the power connector (No.1), an optional power adapter is required.

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2.4   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

1.   For **GV-ABL4712**, optionally loosen the two screws at the bottom of the camera to insert a SD card.
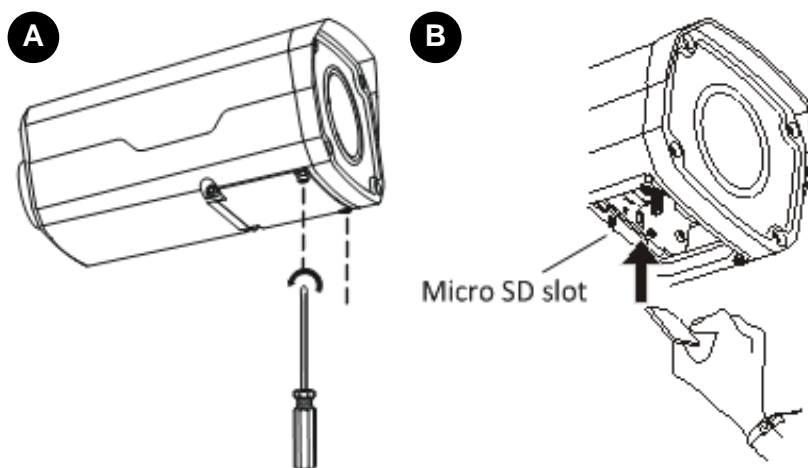

Figure 2-3

2.   Stick the drill template paster to the wall and align the cross center to the hole in the wall.
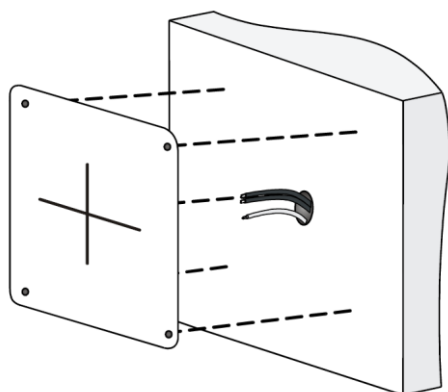3.   Lead the cables across the hole on the wall.

Figure 2-4

4. Drill four 30-mm deep holes according to the drill template.
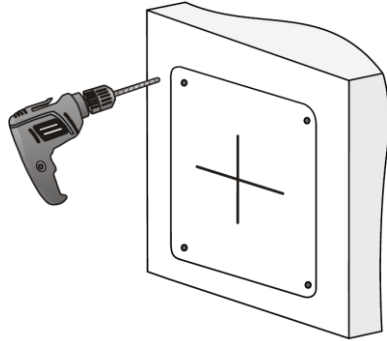
Use a Ø6-6.5mm drill bit.

Figure 2-5

5. Insert the screw anchors.

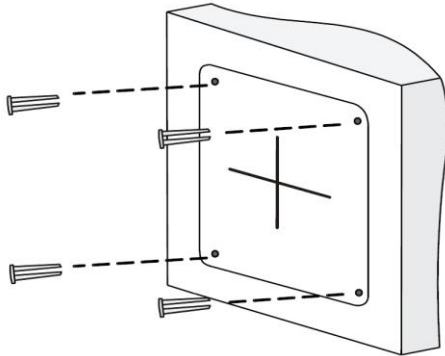*Figure 2-6*

6. Screw the locknut and loosen the universal joint before attaching the camera to the wall.
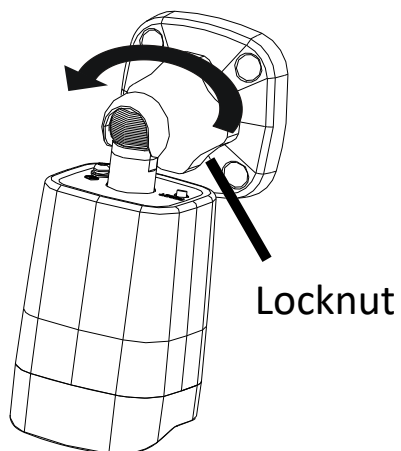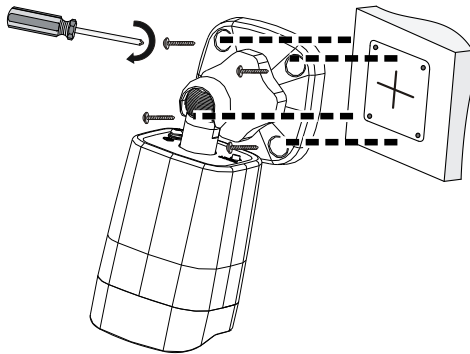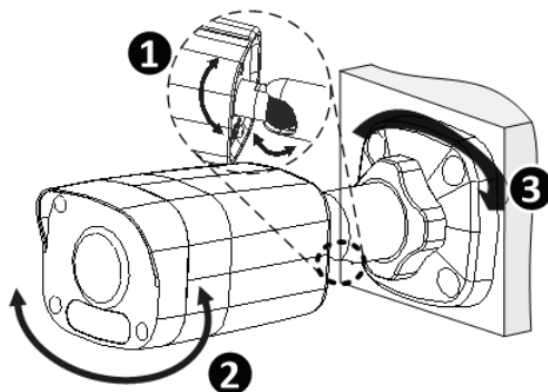

Locknut

Figure 2-7

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.

Figure 2-8

8.   Adjust the monitoring direction.

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.

Figure 2-9

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*.

Note: You can optionally purchase GV-Mount502 for Wall Bracket Mount. For details, see its *User's Manual.*

3. GV-ADR2701 / 4701

The GV-ADR2701 Mini Fixed Rugged IP Dome is an outdoor, fixed, network camera equipped with an automatic IR-cut filter and an IR LED for day and night surveillance. The camera supports H.265 video codec to achieve better compression ratio while maintaining high quality image at reduced network bandwidths. The camera adheres to IP66 standards and can be powered through PoE.

Model No.		Specifications	Description
GV-ADR2701	Fixed lens	Fixed Iris, f: 2.8 mm, F/2.2, M12 Lens Mount	2 MP, H.265, Low Lux, WDR
GV-ADR4701	Fixed lens	Fixed Iris, f: 2.8 mm, F/1.8, M12 Lens Mount	4 MP, H.265, Low Lux, WDR

3.1 Packing List

- GV-ADR2701 / 4701 IR Mini Fixed Rugged IP Dome

- Waterproof Rubber Set

- Screw Kit

- Drill Template Paster

- Download Guide

- Warranty Card

3.2   Optional Accessories

Optional accessories can expand the capabilities and versatility of your camera.
Contact your dealer for more information.

Model Number	Name	Details
GV-Mount213	Wall Box Mount	Dimensions: Ø 109 x 39 mm (4.3" x 1.5") Weight: 0.2 kg (0.44 lb)
GV-PA191	Power over Ethernet (PoE) Adapter	GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.
GV-POE Switch	GV-POE Switch is designed to provide power along with network connection for IP devices. GV-PoE Switch is available in various models with different numbers and types of ports.	
Power Adapter	Contact our sales representatives for the countries and areas supported.	

![GeoVision Inc. logo]

3.3 Overview

Figure 3-1

No.	Description
1	Ethernet connector / PoE
2	Power connector (DC 12 V)
3	Transparent Dome Cover

Note: To power the camera using the power connector (No.2), an optional power adapter is required.

3.4 Installation

The IR Mini Fixed Rugged IP Dome is designed for outdoors. With the standard package, you can install the camera on the ceiling.

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

For Concealed Installation

1. Stick the drill template paster to the ceiling and drill 30-mm deep holes according to the drill template.
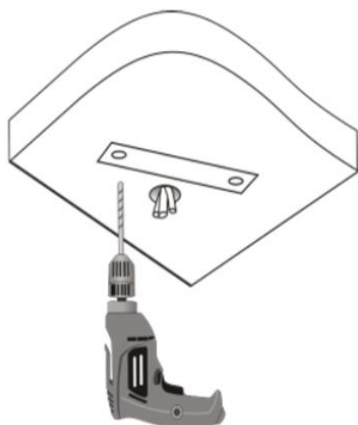

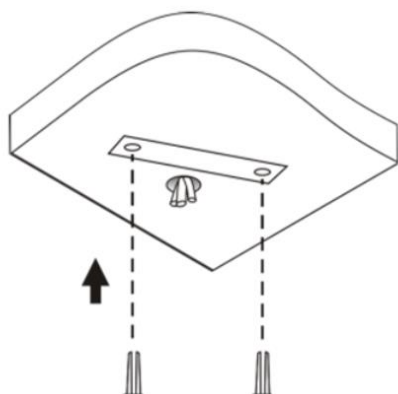*Figure 3-2*

2. Insert the screw anchors.

Figure 3-3

3. Unscrew the transparent dome cover with the supplied torx wrench.
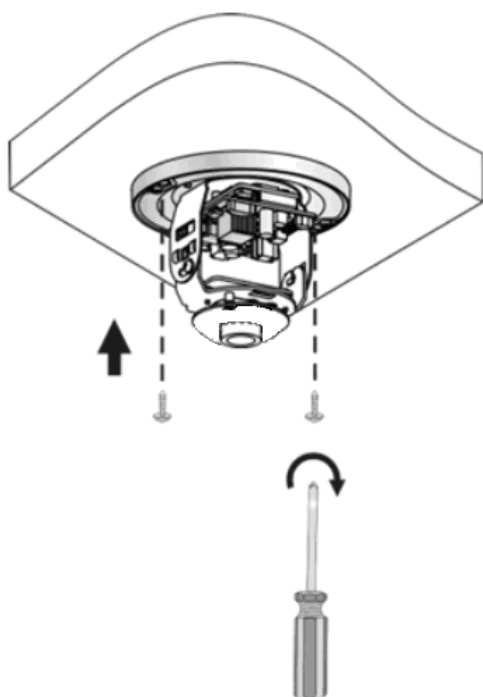
4. Connect the cables and secure the camera.

Figure 3-4

5. Adjust the monitoring direction and tighten the screws after vertically adjusting the lens.
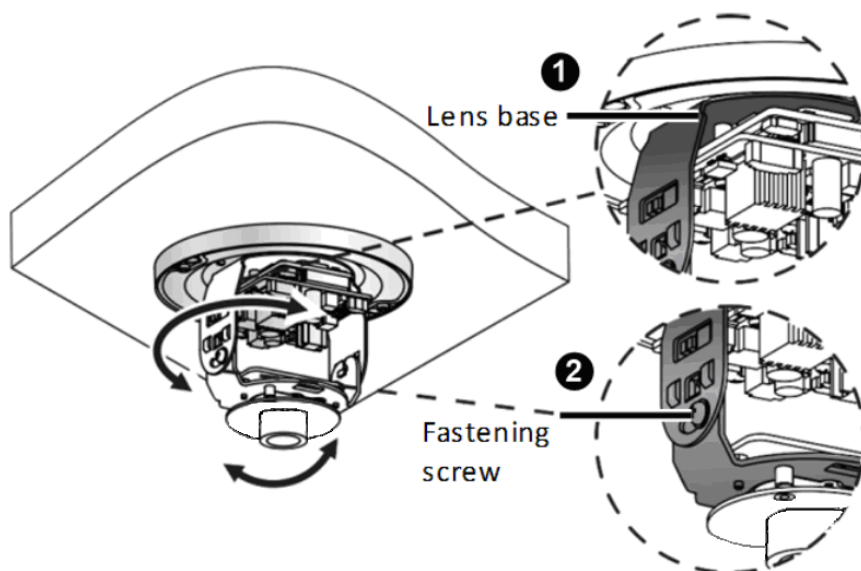

Figure 3-5

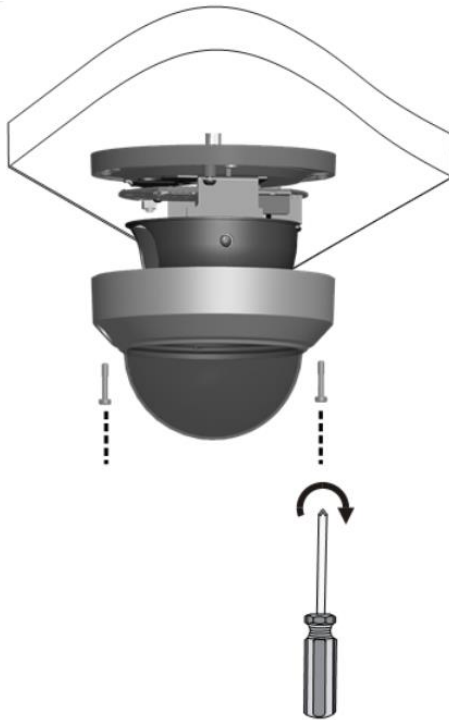6. Secure the transparent dome cover with the supplied torx wrench.

Figure 3-6

Note: Before securing the transparent dome cover, make sure the waterproof rubber strip is tightly held by the six retainers on the bottom ring.

Figure 3-7

For Open Installation

Lead the cables out from the open slot on the camera base before screwing the camera to the ceiling as shown in step 4 in *For Concealed Installation*.

4. GV-AVD4710

The Vandal Proof IP Dome is an outdoor camera designed with IK10 vandal resistance and IP67 ingress protection. The camera is equipped with an automatic IR-cut filter and IR LEDs for day and night surveillance. Adjustable in 3 axis (pan, tilt and rotate), it offers an entry-level surveillance solution with all the essential features and excellent image quality.

Model No.		Specifications	Description
GV-AVD4710	Motorized varifocal lens	Fixed Iris, f: 2.8~12 mm, F/1.4, M14 Lens Mount	4 MP, H.265, Low Lux, WDR Pro

4.1   Packing List
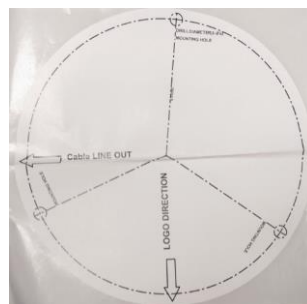
- GV-AVD4710 IR Vandal Proof IP Dome

- Waterproof Rubber Set

- Screw Kit

- Drill Template Paster

- Torx Wrench

- Download Guide

- Warranty Card

4.2 Optional Accessories

Optional accessories can expand the capabilities and versatility of your camera.
Contact your dealer for more information.

| Model Number	Name	Details
GV-Mount211-2	Wall Mount Bracket	Dimensions: 253 x125 x 125 mm (10" x 4.9" x 4.9") Weight: 0.92 kg (2.02lb)
GV-Mount212-2	Wall Box Mount	Dimensions: Φ145 x 40 mm (5.7" x 1.6") Weight: 0.24 kg(0.5lb)
GV-PA191	Power over Ethernet (PoE) Adapter	GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.
GV-POE Switch	GV-POE Switch is designed to provide power along with network connection for IP devices. GV-PoE Switch is available in various models with different numbers and types of ports.	
Power Adapter	Contact our sales representatives for the countries and areas supported.	

4.3   Overview
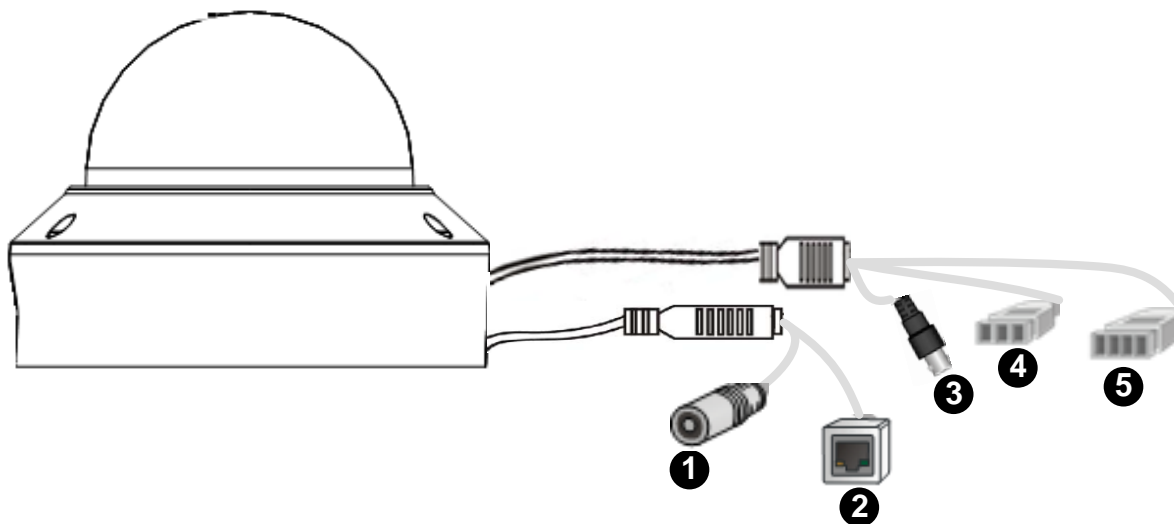
Figure 4-1

No.	Description
1	Power connector (DC 12 V)
2	Ethernet connector / PoE
3	Video Output
4	Audio input / Audio output / GND
5	Alarm input (IN,GND) / Alarm output (N,P)

Note: To power the camera using the power connector (No.1), an optional power adapter is required.

4.4 Installation

The Target Vandal Proof Dome is designed for outdoors. With the standard package, you can install the camera on the ceiling. Alternatively you can purchase optional mounting accessories to mount the camera on a wall.

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

For Concealed Installation

1. Stick the drill template paster to the ceiling, and then drill three holes according to the drill template.
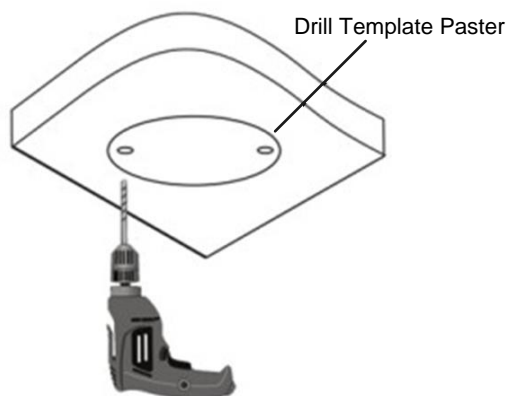
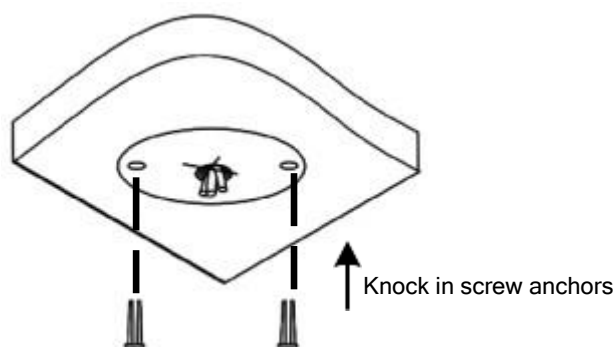*Figure 4-2*

2. Insert the screw anchors.

Figure 4-3

3. Unscrew the transparent dome cover with the supplied torx wrench.

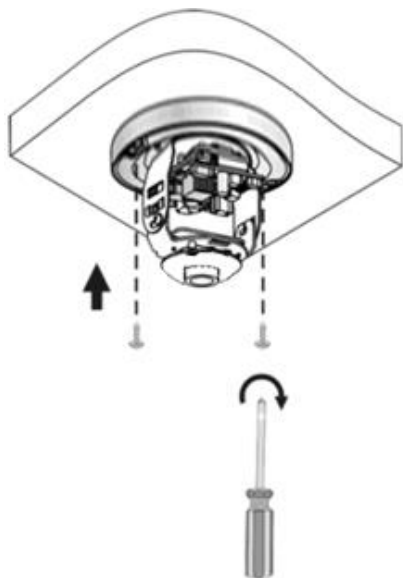4. Connect the camera cables and secure the camera.

Figure 4-4

5. Insert a SD card into the slot.

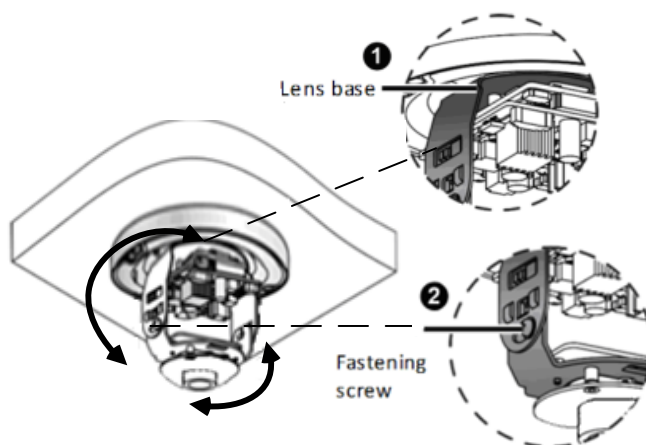6. Adjust the monitoring direction and tighten the screws after vertically adjusting the lens.

Figure 4-5

7. Secure the transparent dome cover with the supplied torx wrench.

For Open Installation

Lead the cables out from the open slot on the camera base before screwing the camera to the ceiling as shown in Step 4.

5. Waterproofing the Cable

Waterproof the Ethernet cable by using the supplied waterproof rubber set.

1. Attach the seal ring to the RJ-45 plug.

Seal ring

Figure 5-1

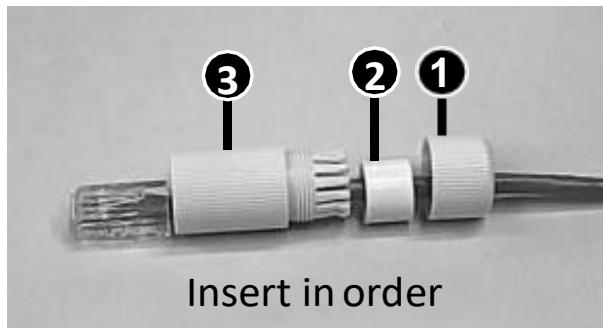2. Insert the waterproof components through the Ethernet cable as shown below.

Insert in order

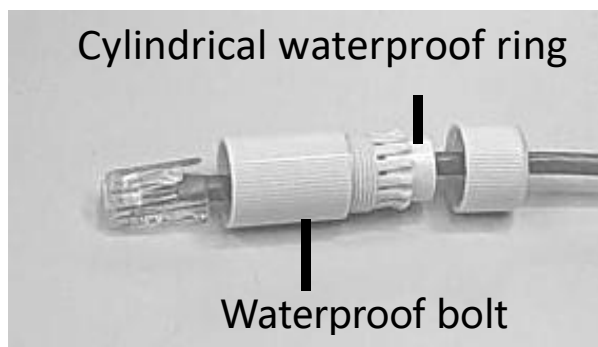*Figure 5-2*

3. Insert the cylindrical waterproof ring into waterproof bolt.

Cylindrical waterproof ring

Waterproof bolt

Figure 5-3

4.   Insert the cable into the RJ-45 plug and screw the waterproof bolt in.
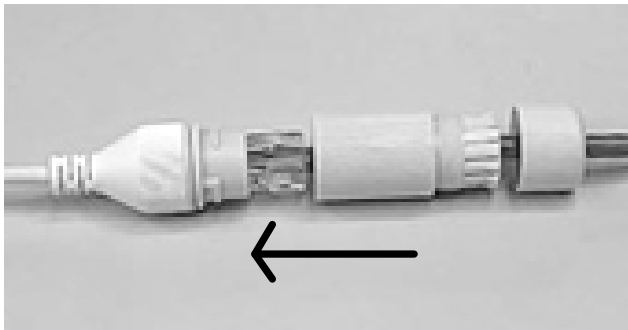

Figure 5-4

5.   Screw in the waterproof bolt lid.
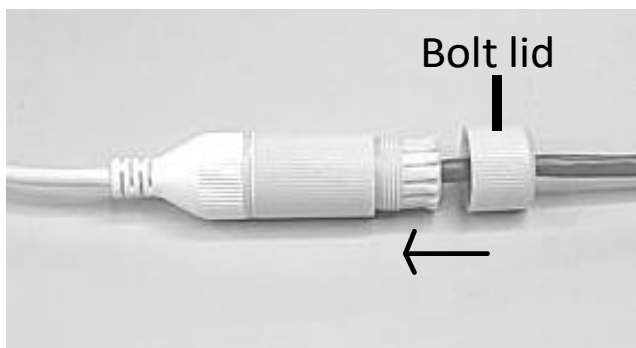

Figure 5-5

6.   Finish the waterproof installation.

Figure 5-6

6. Accessing the Camera

6.1 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 ● Mozilla Firefox ● Safari
Note: Some functions are not available on non-IE browsers.	

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

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1. Download and install the **GV-IP Device Utility** program from GeoVision 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.
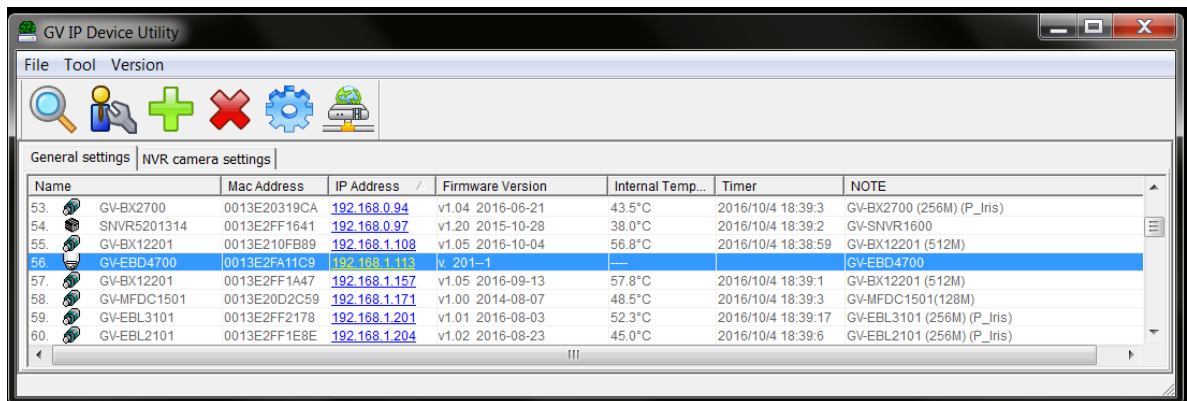
Figure 6-1

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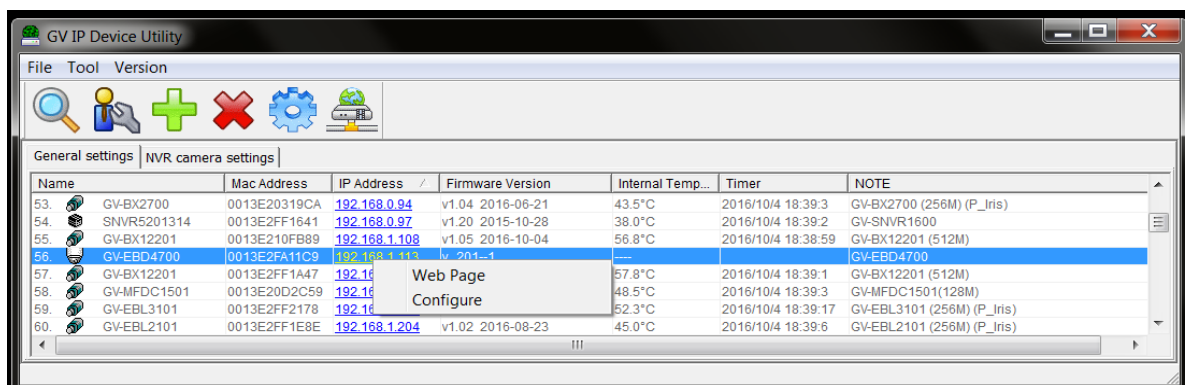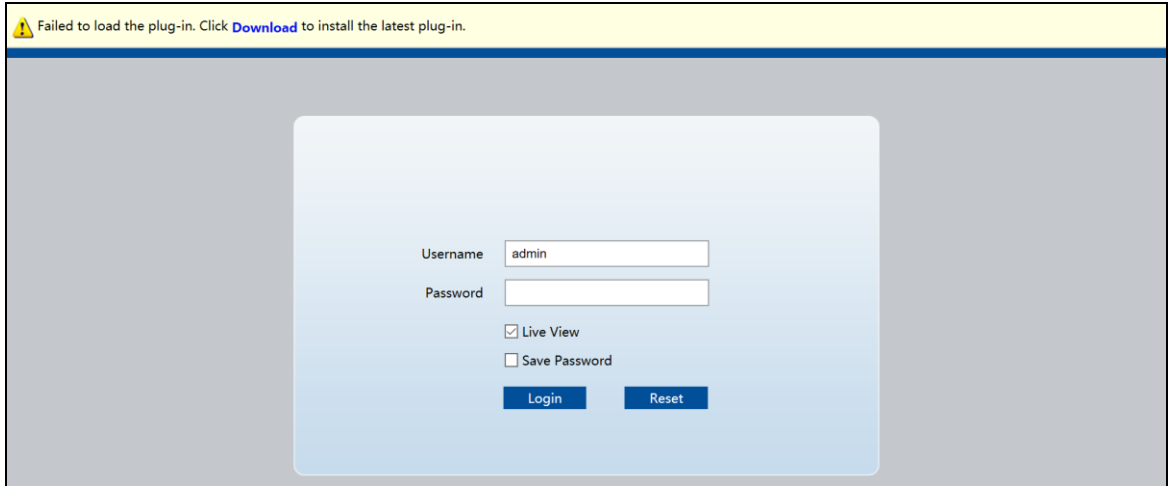

Figure 6-2

4. The login page appears.

Failed to load the plug-in. Click **Download** to install the latest plug-in.

Username	admin
Password	

☑ Live View
☐ Save Password

Login   Reset

Figure 6-3

5. For first-time accessing of the Web interface, download and install the plug-in.

6. Type the default ID and password **admin** and click **Login**.

6.3   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 http://192.168.0.10.

2. Type the default username and password **admin**. Click **Login**.
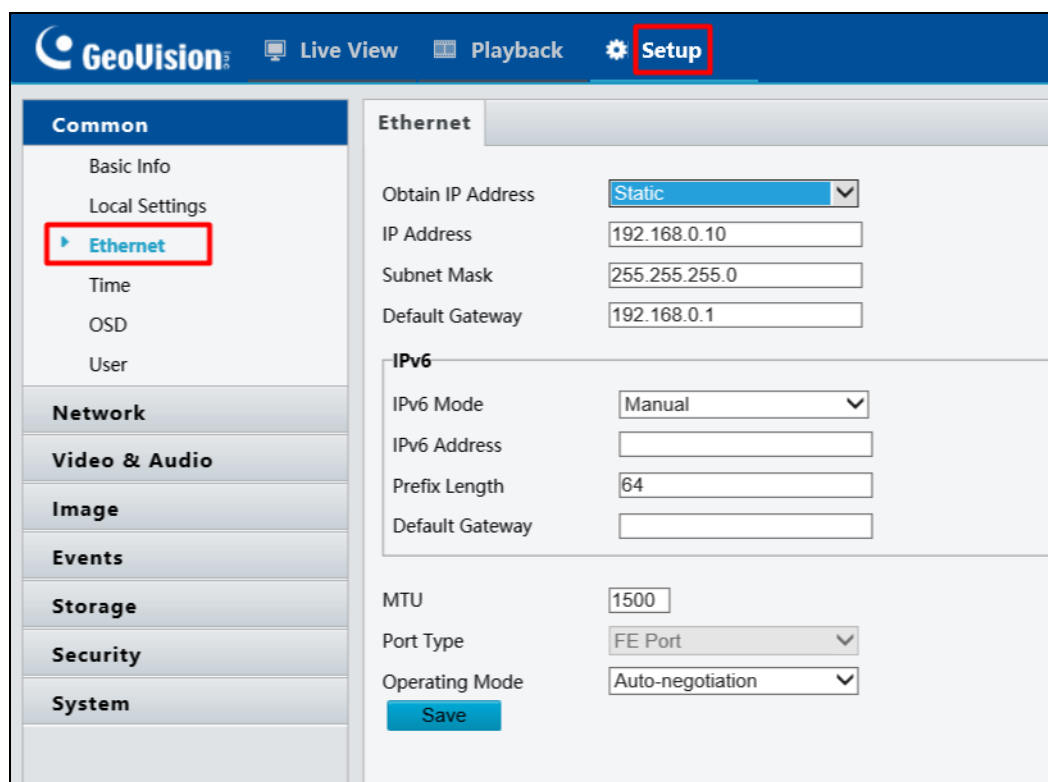
3. Click **Setup**, select **Common** in the left menu and select **Ethernet**.

Figure 6-4

4. Select **Static IP** from the **IP Obtain Mode** 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**.

7. The Web Interface

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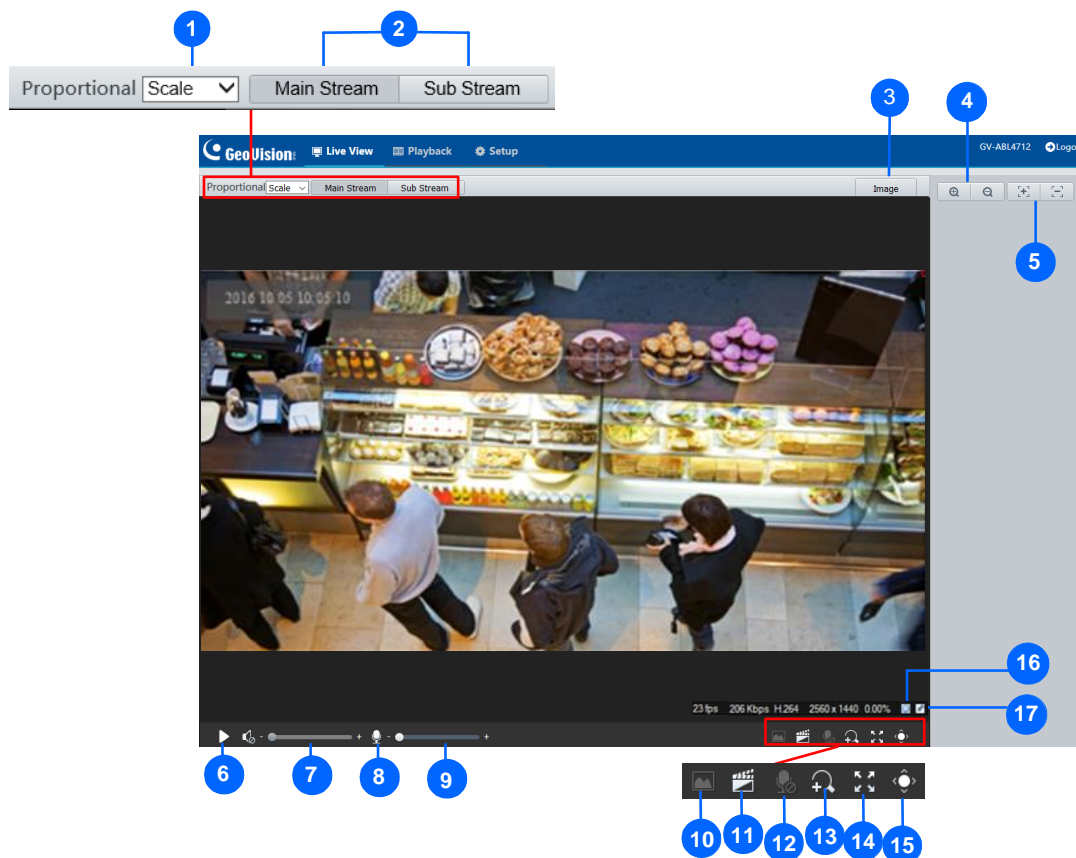

Figure 7-1

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 *3.4.1 Image* in the *User's Manual*.
4	Zoom +/-	Only for **GV-EBD4711 / GV-ABL4712 / GV-AVD4710**, increase or decrease the camera's optical zoom.

40

5	Focus +/-	Only for **GV-EBD4711 / GV-ABL4712 / GV-AVD4710**, increase or decrease the camera focus.
6	Play/Stop	Play or stop live video.
7	Video Volume	Only for **GV-EBD4711 / GV-ABL4712 / GV-AVD4710**, adjust the audio output volume on the PC.
8	Microphone	Only for **GV-ABL4712 / AVD4710**, enable or disable microphone.
9	Microphone Volume	Only for **GV-ABL4712 / AVD4710**, adjust the microphone volume on the PC during audio communication between the PC and the camera.
10	Snapshot	Take a snapshot of the current image displayed on the PC.
11	Local Recording	Start or stop local recording.
12	Two-way Audio	Only for **GV-ABL4712 / AVD4710**, start or stop two-way audio.
13	Digital Zoom	Enable or disable digital zoom. – See *2.2.1.1 Digital Zoom* in the *User's Manual*.
14	Full Screen	Display in full screen mode.
15	Control Panel	Only for **GV-EBD4711 / GV-ABL4712 / GV-AVD4710**, hide or show the camera's optical zoom and focus functions.
16		Reset the packet loss rate to zero.
17		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.

Note:

1. The paths for saving snapshots and local recordings are set in Local Settings. See *3.13 Local Settings* in the *User's Manual.*

2. The No. 16 and 17 buttons will appear on the floating toolbar when you move the mouse cursor onto the live view.

8. Upgrading System Firmware

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

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

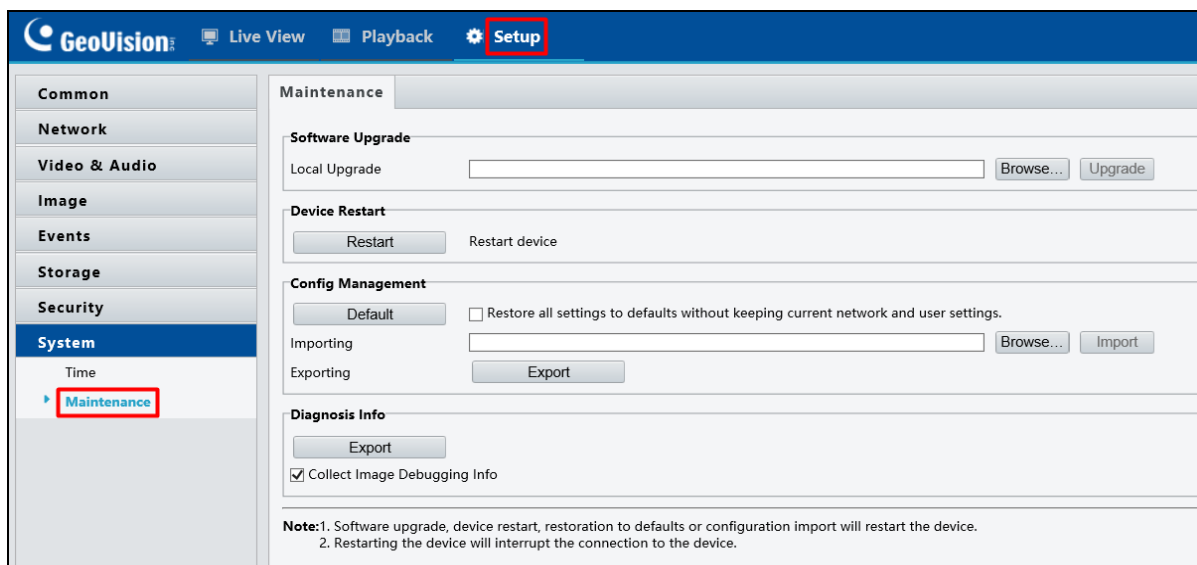2. In the left menu, select **System** and select **Maintenance**. This page appears.

Figure 8-1

3. Click **Browse** under **Software Upgrade** to locate the firmware file (.zip) saved at your local computer.

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

9. 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**.

> **Note:** Only **GV-EBD4711** and **GV-AVD4710** support a default button, refer to *1.1.3.2 GV-EBD4711* and *1.4.3 Overview* in the *User's Manual*.

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

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

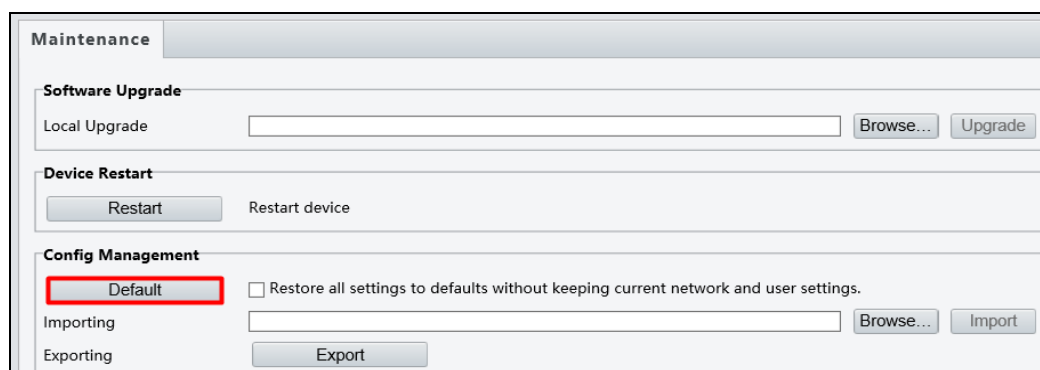3. Under the **Config Management** section, click **Default**.

Figure 9-1