

# Quick Start Guide

## *GV-IP Thermal Camera*



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

TMEB-QG-A



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



[Warranty]



[Technical Support Policy]

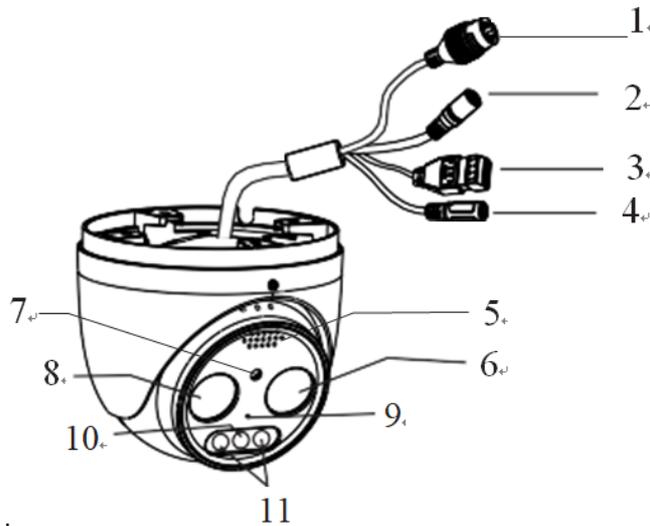
## Warning and Caution

- Please read this instruction carefully before operating the unit and keep it for further reference.
- All the examples and pictures used here are for reference only.
- The contents of this manual are subject to change without notice.
- 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.)
- Do not allow water or liquid intrusion into the camera.
- 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 or ceiling, 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.
- The product must be grounded to reduce the risk of electric 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 (the operating temperature shall be  $-30^{\circ}\text{C}$  ~  $60^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$  ~  $140^{\circ}\text{F}$ ), dusty or damp locations, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for operating environment.

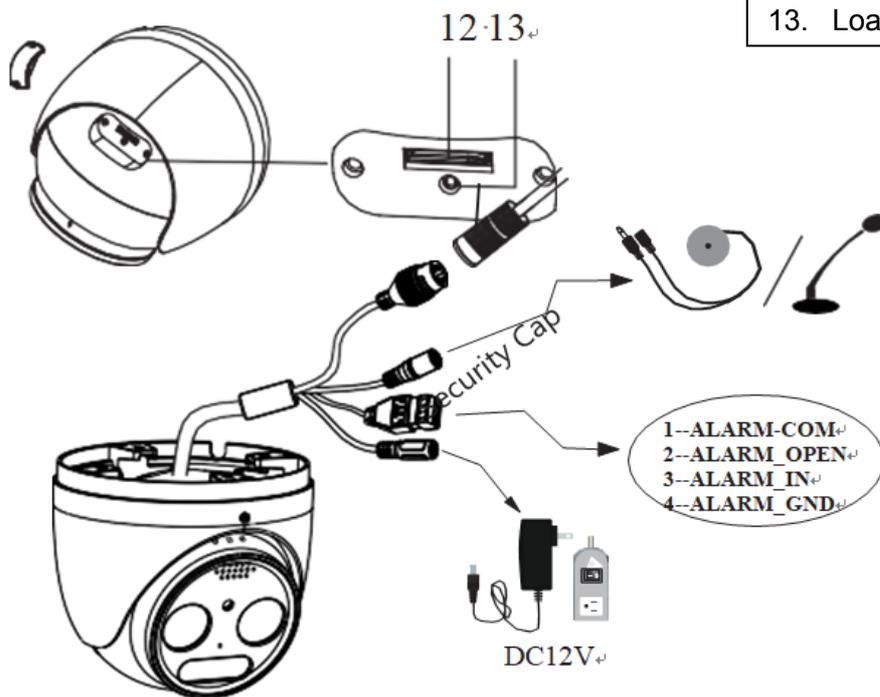
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# 1. Overview

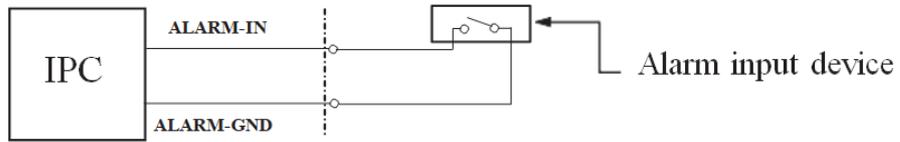


- |     |                               |
|-----|-------------------------------|
| 1.  | Ethernet connector            |
| 2.  | Audio input connector (3.5mm) |
| 3.  | Alarm input/output            |
| 4.  | Power connector               |
| 5.  | Speaker                       |
| 6.  | Thermal lens                  |
| 7.  | Light sensor                  |
| 8.  | Optical lens                  |
| 9.  | Microphone                    |
| 10. | Flashing light                |
| 11. | IR LED                        |
| 12. | Micro SD card slot            |
| 13. | Load Default                  |



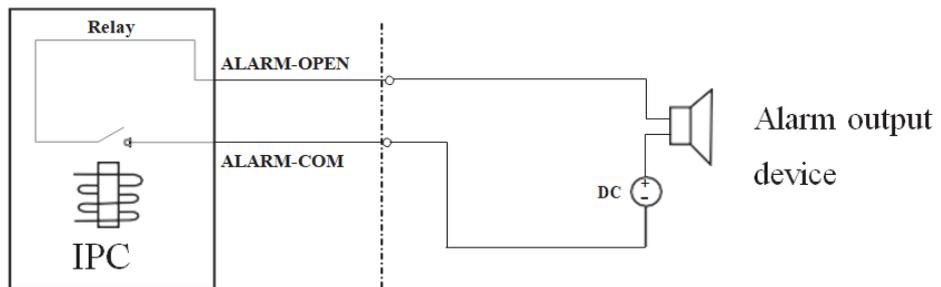
**Note:** The camera can be powered by DC 12V / PoE power supply. If the PoE switch is used to power the camera, DC12V power supply is not required.

### Connecting alarm input



### Connecting alarm output

Max. load of the alarm output: 30VDC, 1A



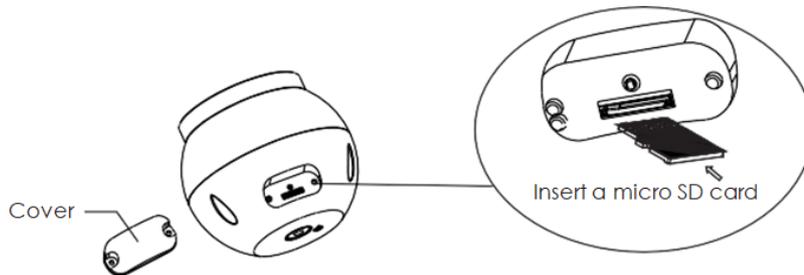
## 2. Installation

Please make sure that the wall or ceiling is strong enough to withstand 3 times the weight of the camera. And install and use the camera in the dry environment.

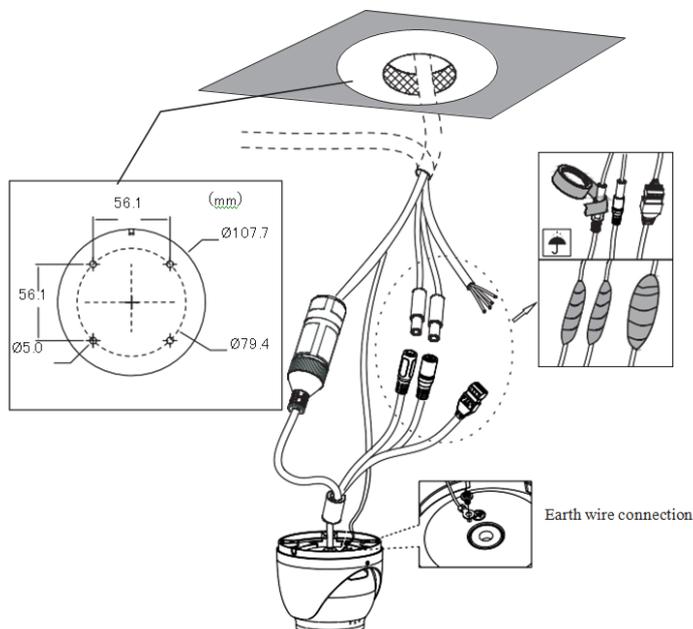
1. Loosen the fixed screw to disassemble the camera.

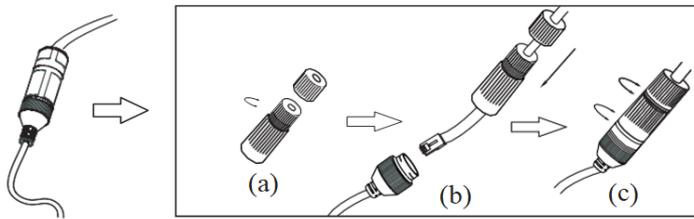


2. Unscrew the cover of the dome and then insert a micro SD card. After that, install back the cover and make sure the cover is installed firmly.

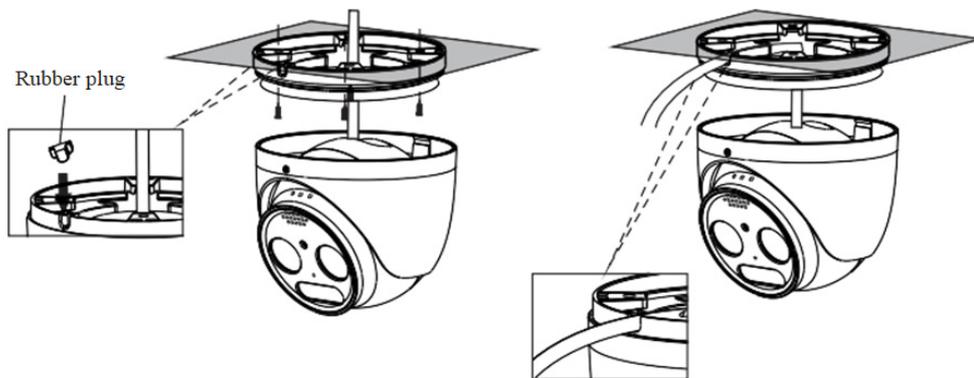


3. Drill the screw holes and the cable hole on the ceiling according to the drill template. Then route and connect the cables.

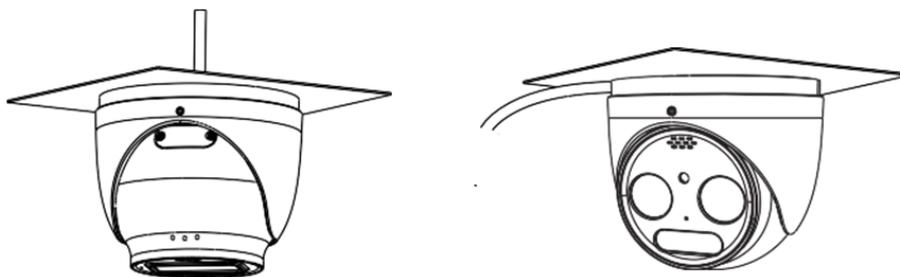




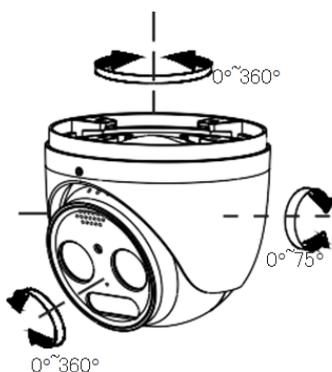
- A. Loosen the nut from the main element.
  - B. Run the network cable (without RJ 45 connector) through the both elements.  
Then crimp the cable with RJ 45 connector.
  - C. Connect the cable to the hermetic connector. Then tighten the nut and the main cover.
4. Secure the mounting base to the ceiling or wall with the screws provided.



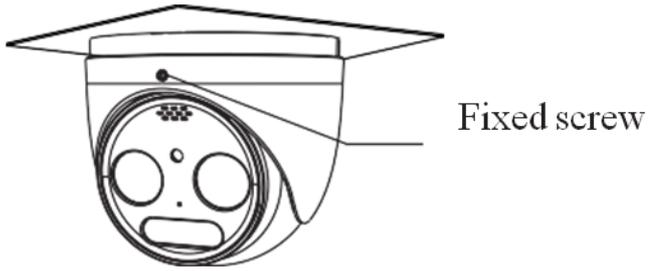
5. Install the dome and enclosure to the mounting base.



6. Adjust the dome to obtain an optimum view angle.



7. Fix the camera with the fixed screw.



## 3. Accessing the Network Camera

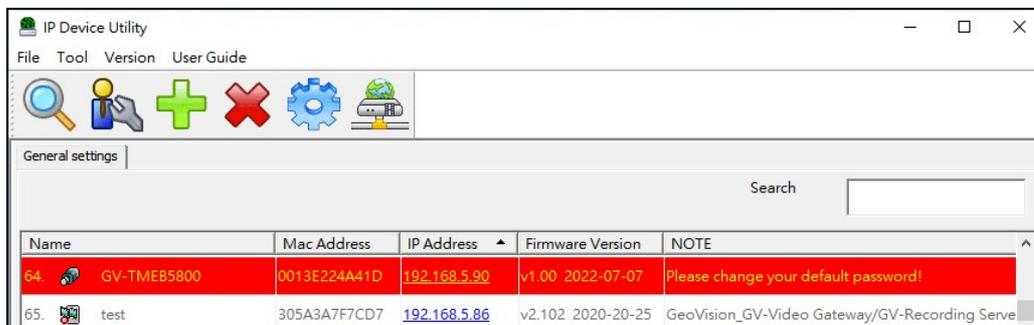
### 3.1 Looking Up the Dynamic IP Address

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

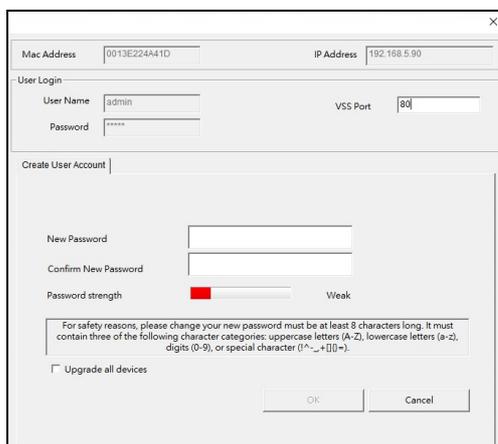
#### Note:

1. By default, the Administrator's username is **admin** and cannot be modified.
2. This function is only applicable on GV-IP Device Utility V8.9.8 or later.

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 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, and click on its IP address.



4. For the first-time users, you are requested to set up a password.

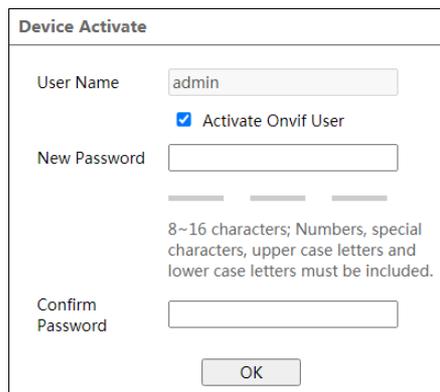


5. Type a new password and click **OK**.
6. Click on its IP address again and select **Webpage** to open its Web interface.
7. Type the set password on the login page and click **Login**.

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**IMPORTANT:**

1. **The camera has two sets of passwords: one is for Web interface and the other is for the third-party platform connection via ONVIF, e.g. GV-VMS. GV-IP Device Utility is used to set the ONVIF password.** When the first-time user uses GV-IP Device Utility to set a password for the camera, the two sets of passwords are created simultaneously.
2. To change the password **for Web interface**, go to Config > Security > User ; see “Modified User” in *5.6.1 User Configuration* in the user’s manual. To change the password **for ONVIF connection**, go Config > Network > Advanced; see *5.5.4 ONVIF* in the user’s manual.
3. If the first-time user accesses the camera’s Web interface on the browser directly by using the IP address found in GV-IP Device Utility, the following dialog box will appear.



The image shows a dialog box titled "Device Activate". It contains the following fields and options:

- User Name: A text box containing "admin".
- Activate Onvif User
- New Password: A text box with a strength indicator below it consisting of three dashes. Below the indicator is the text: "8~16 characters; Numbers, special characters, upper case letters and lower case letters must be included."
- Confirm Password: A text box.
- OK: A button at the bottom.

If “Activate Onvif User” is enabled, the ONVIF user can be activated simultaneously for the third-party platform connection via ONVIF, using the default username and set password set above to connect.

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## 3.2 Configuring the IP Address

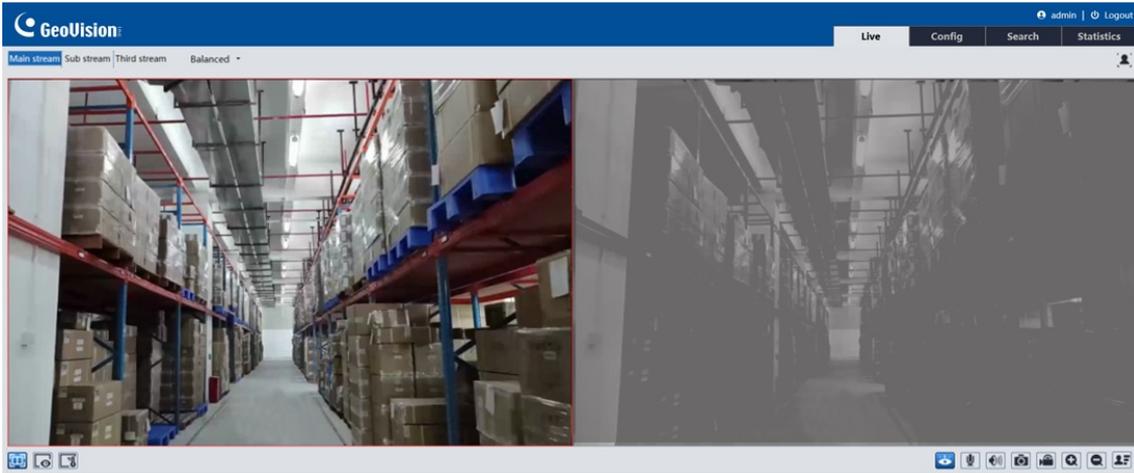
If the camera is connected to a LAN without the DHCP server, the default IP address will be **192.168.0.10**. Follow the steps below to modify the IP address to avoid IP conflict with other GV-IP devices on the same LAN.

1. Open your Web browser, and type the default IP address **192.168.0.10**.
2. Type 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 then enter the static IP address and other parameters.

IPv4	IPv6	PPPoE Config	IP Change Notification Config
<input type="radio"/> Obtain an IP address automatically			
<input checked="" type="radio"/> Use the following IP address			
IP Address	<input type="text" value="192.168.226.201"/>	<input type="button" value="Test"/>	
Subnet Mask	<input type="text" value="255.255.255.0"/>		
Gateway	<input type="text" value="192.168.226.1"/>		
Preferred DNS Server	<input type="text" value="210.21.196.6"/>		
Alternate DNS Server	<input type="text" value="8.8.8.8"/>		

## 4. The Web Interface

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



**IMPORTANT:** It is required to use **IE** or **Edge IE** mode to access thermal images.

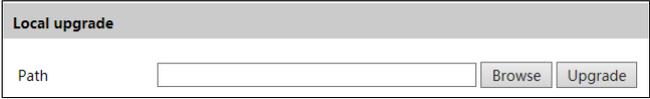
Icon	Description	Icon	Description
	Visible light image and thermal image display		Fire detection indicator
	Visible light image display		Temperature indicator
	Thermal image display		SD card recording indicator
	Start/stop live view		Color abnormal indicator
	Start/stop two-way audio		Abnormal clarity indicator
	Enable/disable audio		Scene change indicator
	Snapshot		Sensor alarm indicator
	Start/stop local recording		Motion alarm indicator
	Zoom in		Line crossing indicator
	Zoom out		Intrusion indicator
	Face Detection		Region entrance indicator
	Face detection indicator		Region exiting indicator

For detailed information, see 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.

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



The screenshot shows a web interface titled "Local upgrade". It features a text input field labeled "Path" with a "Browse" button to its right. To the right of the "Browse" button is an "Upgrade" button.

2. 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.

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**Note:** Do not close the browser or disconnect the camera from the network during the upgrade.

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## 6. Restoring to Factory Default

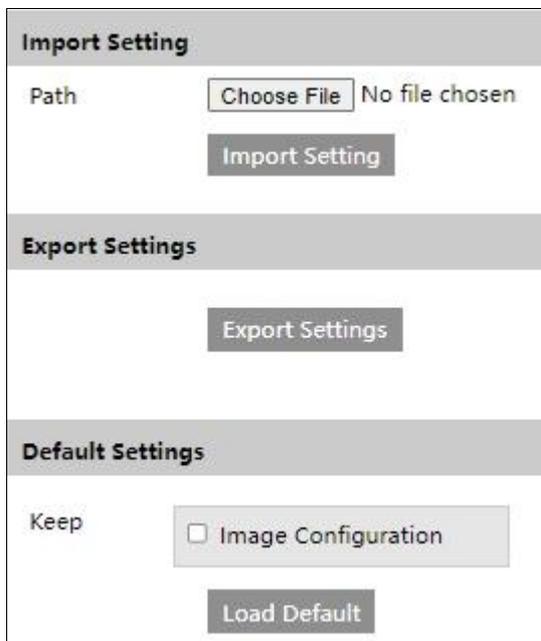
If for any reason the camera is not responding correctly, you can restore the camera back to its factory default settings using the Web interface or the Load Default Button.

### On the Camera

1. Find the **Load Default** button on the camera (see No. 13, 1. Overview in the Quick Start Guide).
2. Press and hold the button for more than 10 seconds to restore to the factory default setting.

### On the Web Interface

1. On the Web interface, click **Config > Maintenance > Backup & Restore**.
2. Click the **Load Default** button to restore all system settings to factory default, except the image settings (see 5.2 Image Configuration in the User's Manual for details) you want to keep.



The screenshot shows a web interface with three main sections: 'Import Setting', 'Export Settings', and 'Default Settings'. The 'Import Setting' section includes a 'Path' field with a 'Choose File' button and 'No file chosen' text, and an 'Import Setting' button. The 'Export Settings' section has an 'Export Settings' button. The 'Default Settings' section has a 'Keep' section with an unchecked checkbox for 'Image Configuration' and a 'Load Default' button.

## 7. Connecting to GV-VMS

To connect GV-TMEB5800 to GV-VMS surveillance system, follow the steps below.

### Note:

1. It is only supported by GV-VMS V17.4.5 / V18.3.1 with patch files or later versions.
2. Make sure to use the camera's ONVIF password to connect to GV-VMS.
3. The camera allows for a maximum of 10 simultaneous connections, including the Web, ONVIF and RTSP. And the maximum throughput is 100 Mbps.

1. Add GV-TMBE5800 to GV-VMS (**Home**  > **Toolbar**  > **Configure**  > **Camera Install**).
2. Once it is added, you will see two camera entries are listed in the IP Device Setup window, one is the GV-TMB5800 and the other is GV-TMB5800 (Thermal).

38		192.168.9.123	80	2592K1944(H265) / 704X480(H264)	1007 / 100 kbps	GeoVision_GV-TMEB5800	Camera38	
48		192.168.9.123	80	1280X720(H265)	379 kbps	GeoVision_GV-TMEB5800(Thermal)	Camera48	

3. Open the **Content List** (**Home**  > **Toolbar**  > **Content List** .
4. Find the camera GV-TMB5800, and click the Expand button to see the thermal camera listed under.
5. Drag the two cameras to the live view window.

