

4.0 Megapixel IP, True WDR, Outdoor IR Turret Camera



## Installation & Quick Setup Guide

## **About this Manual**

This Manual is applicable to IP4TIR100 Network Camera.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website

Please use this user manual under the guidance of professionals.

## **Legal Disclaimer**

REGARDING TO THE PRODUCT WITH INTERNET ACCESS, THE USE OF PRODUCT SHALL BE WHOLLY AT YOUR OWN RISKS. OUR COMPANY SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER ATTACK, HACKER ATTACK, VIRUS INSPECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, OUR COMPANY WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

SURVEILLANCE LAWS VARY BY JURISDICTION. PLEASE CHECK ALL RELEVANT LAWS IN YOUR JURISDICTION BEFORE USING THIS PRODUCT IN ORDER TO ENSURE THAT YOUR USE CONFORMS THE APPLICABLE LAW. OUR COMPANY SHALL NOT BE LIABLE IN THE EVENT THAT THIS PRODUCT IS USED WITH ILLEGITIMATE PURPOSES. IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATER PREVAILS.

## Regulatory Information

### FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC compliance:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

## EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: [www.recyclethis.info](http://www.recyclethis.info)



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your

supplier or to a designated collection point. For more information see: [www.recyclethis.info](http://www.recyclethis.info)

### Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (B)/NMB-3(B) standards requirements.



## Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into “Warnings” and “Cautions”

**Warnings:** Serious injury or death may occur if any of the warnings are neglected.

**Cautions:** Injury or equipment damage may occur if any of the cautions are neglected.

	
<b>Warnings</b> Follow these safeguards to prevent serious injury or death.	<b>Cautions</b> Follow these precautions to prevent potential injury or material damage.



### Warnings

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket. When the product is mounted on wall or ceiling, the device shall be firmly fixed.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

**Cautions**

- Make sure the power supply voltage is correct before using the camera.
- Do not drop the camera or subject it to physical shock.
- Do not touch sensor modules with fingers. If cleaning is necessary, use clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period, please replace the lens cap to protect the sensor from dirt.

- Do not aim the camera at the sun or extra bright places. Blooming or smearing may occur otherwise (which is not a malfunction), and affect the endurance of sensor at the same time.
- The sensor may be burned out by a laser beam, so when any laser equipment is in using, make sure that the surface of sensor will not be exposed to the laser beam.
- Do not place the camera in extremely hot, cold (the operating temperature shall be -30°C to +60°C), dusty or damp locations, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for operating environment.
- Keep internal components of the camera away from liquid while in use.
- While in shipping, the camera shall be packed in its original packing, or packing of the same quality.
- If the product does not work properly, please contact tech support at 855-388-7422 or [techsupport@northernvideo.com](mailto:techsupport@northernvideo.com) your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

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# 1 Appearance Description

## 1.1 Overview of IP4TIR100 Turret Camera

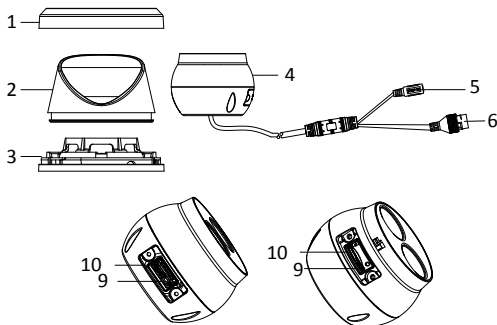


Figure 1-1 IP4TIR100 Turret Camera

Table 1-1 Description

No.	Description	No.	Description
1	Trim Ring	5	Power Cord
2	Enclosure	6	10M/100M Self-adaptive Ethernet Interface (PoE)
3	Mounting Base	7	RST (Reset) Button
4	Camera	8	Memory Card Slot

**Notes:**

- This turret camera supports PoE power supply. You can power the camera by connecting both DC 12V interface and the Ethernet interface. Or you can connect the Ethernet interface only.
- To reset the camera to default status you first need to remove power from the camera. Then press and hold the reset button while re-applying power, continue to hold the reset button for at least 15 seconds after applying power to default the camera.

## 2 Installation

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### *Before you start:*

- Make sure the device in the package is in good condition and all the assembly parts are included.
- The standard power supply is 12 VDC or PoE (802.3af), please make sure your power supply matches with your camera.
- Make sure all the related equipment is power-off during the installation.
- Check the specification of the products for the installation environment.
- Make sure that the wall is strong enough to withstand four times the weight of the camera and the bracket.

For the camera that supports IR, you are required to pay attention to the following precautions to prevent IR reflection:

Make sure that there is no reflective surface too close to the camera lens. The IR light from the camera may reflect back into the lens causing reflection.

### 2.1 Ceiling Mounting

#### *Steps:*

1. Disassemble the camera.
  - 1). Rotate the trim ring anticlockwise to take it off from the camera.
  - 2). Loosen the fixing screw. Take the mounting base off from the camera and the enclosure.

- 3). Separate the camera and the enclosure.

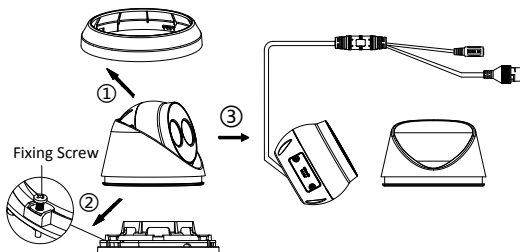


Figure 2-1 Disassemble the Camera

1. Install memory card.
  - 1). Unscrew the memory card slot cover.
  - 2). Insert the memory card.

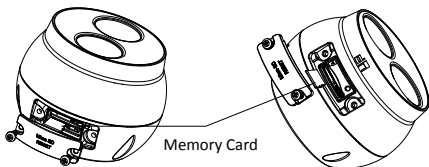


Figure 2-2 Install Memory Card

- 3). (Optional) to unmount the memory card, push to get it ejected.
- 4). Screw the memory card slot cover back.

2. Paste the drill template to desired mounting place.
3. Drill the screw holes (for expansion screws) and the cable hole on the ceiling according to the drill template.

**Note:**

If the camera is installed to a wooden wall, use self-tapping screws instead of expansion screws.

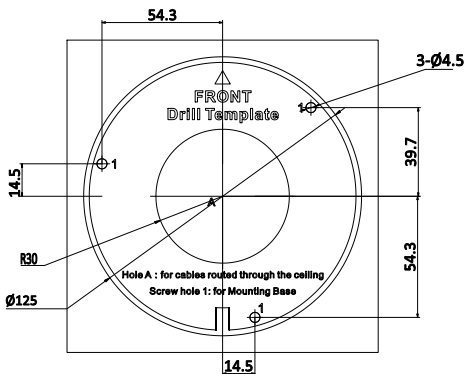


Figure 2-3 Drill Template

4. Fix the mounting base to the ceiling with two supplied screws.

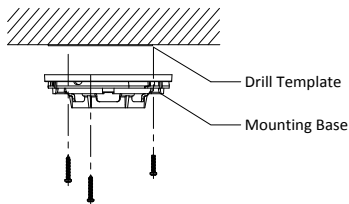


Figure 2-4 Fix Mounting Base

5. Connect the corresponding power/network cable. Refer to the section 2.3 for the waterproof accessory installation if the camera is installed in the outdoor.
6. Install the camera along with the enclosure to the mounting base.

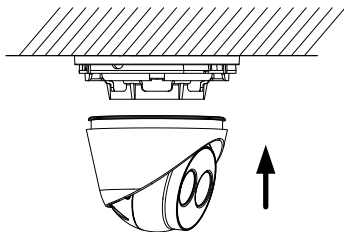


Figure 2-5 Install the Camera

7. Adjust the surveillance angle of the camera. Secure the fixing screw after adjustment.

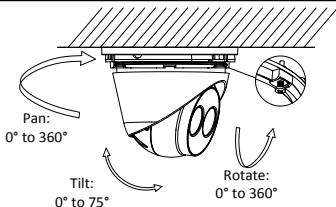


Figure 2-6 Adjust Surveillance Angle

8. Attach the trim ring to the camera and rotate the trim ring clockwise to get it secured.

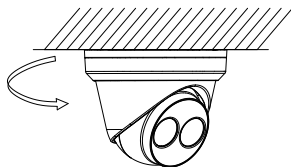


Figure 2-7 Install Trim Ring

## 2.2 Mounting with Brackets

This camera supports various mounting accessories. Wall Mounting is used as an example in this manual.

The wall mounting bracket is not included in the package. You need to purchase the **WMTS** (wall mount) along with the **DPC130T** (wall mount cap).

## 2.2.1 Wall Mounting

### Steps:

1. Mark the screw holes on desired mounting place.

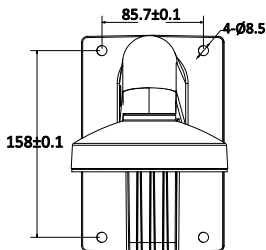


Figure 2-8 Dimension of Demonstrated Wall Mounting Bracket

2. Drill four screw holes with a  $\Phi 10$  mm drill.
3. Route the cables and fix the bracket with four M6 expansion bolts.
4. Disassemble the camera.  
Refer to step 1 in ceiling mounting.
5. Fix the mounting base to the cap of wall mount with 3 supplied self-tapping screws.



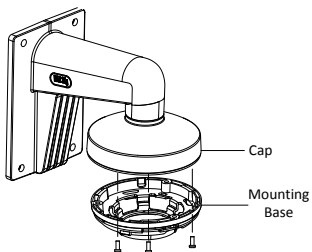


Figure 2-9 Fix Mounting Base

6. Connect the corresponding power/network cable. Refer to the section 2.3 for the waterproof accessory installation if the camera is installed in the outdoor.
7. Install the camera and the enclosure to the mounting base, adjust the surveillance angle, and fix the trim ring.

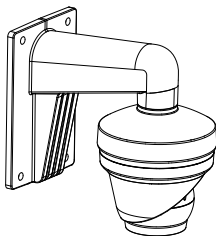


Figure 2-10 Wall Mounting

## 2.3 Network Cable Waterproof Accessory Installation

### *Purpose:*

If the camera is installed outdoor, you should use the waterproof accessory for the network cable after the camera is secured on the installation surface.

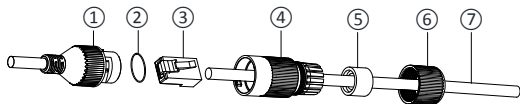


Figure 2-11 Waterproof Accessory Components

Table 2-1 Components

No.	Components
1	Camera's Network Interface Socket
2	O-Type Gasket
3	Network Plug
4	Waterproof Endcap
5	Waterproof Rubber Gasket
6	Lock Nut
7	Network Cable from Router/Switch

### *Steps:*

1. Feed the plugless network cable ⑦ through the lock nut ⑥, waterproof rubber gasket ⑤ (rubber gasket inset ridge must face waterproof endcap), and the waterproof endcap ④ in order.
2. Crimp an RJ-45 network plug ③ onto the end of the cable, taking care to insert the twisted pairs of wires in correct order.
3. Place the O-type gasket ② onto the end of the camera's network interface socket ①.
4. Insert the network plug ③ into the camera's network interface socket ①.
5. Insert the waterproof rubber gasket ⑤ into the waterproof endcap ④, and secure lock nut ⑥ with the waterproof endcap ④.
6. Align the snap on the waterproof endcap ④ with the notch on the camera's network interface socket ①, and then secure the waterproof endcap ④ to the camera's network interface socket ① to finish installation.

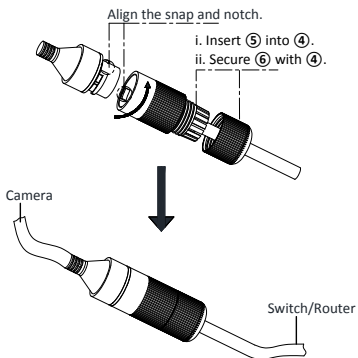


Figure 2-12 Waterproof Accessory Installation

## 3 Set the Network Camera over the LAN

### **Note:**

You shall acknowledge that the use of the product with Internet access might be under network security risks. For avoidance of any network attacks and information leakage, please strengthen your own protection.

If the product does not work properly, contact your dealer or the nearest service center for help.

### 3.1 Wiring

Connect the camera to network according to the following figures.

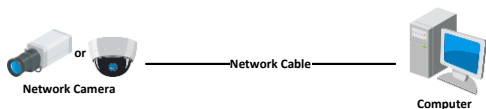


Figure 3-1 Connecting Directly

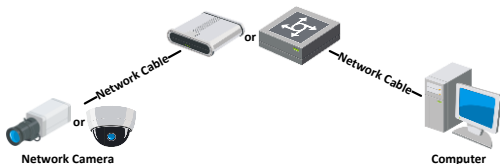


Figure 3-2 Connecting via a Switch or a Router

## 3.2 Activate the Camera

You are required to activate the camera first by setting a strong password for it before you can use the camera.

Activation via Web Browser, Activation via SADP, and Activation via Client Software are all supported. We will take activation via SADP software and Activation via Web Browser as examples to introduce the camera activation.

**Note:**

Refer to the User Manual of Network Camera for Activation via Client Software.

### 3.2.1 Activation via Web Browser

**Steps:**

1. Power on the camera. Connect the camera to your computer or the switch/router which your computer connects to.
2. Input the IP address into the address bar of the web browser, and press Enter to enter the activation interface.

**Notes:**

- The default IP address of the camera is 192.168.1.64.
- The computer and the camera should belong to the same subnet.
- For the camera enables the DHCP by default, you need to use the SADP software to search the IP address.

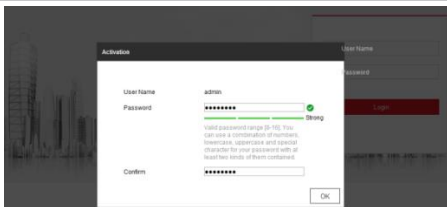


Figure 3-3 Activation Interface (Web)

3. Create a password and input the password into the password field.



**STRONG PASSWORD RECOMMENDED**– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Confirm the password.
5. Click **OK** to save the password and enter the live view interface.

### 3.2.2 Activation via SADP Software

SADP software is used for detecting the online device, activating the camera, and resetting the password.

Get the SADP software from the supplied disk or the official website, and install the SADP according to the prompts. Follow the steps to activate the camera, please refer to the User Manual of Network Camera for other two activation methods.

## Steps:

1. Run the SADP software to search the online devices.
2. Check the device status from the device list, and select the inactive device.

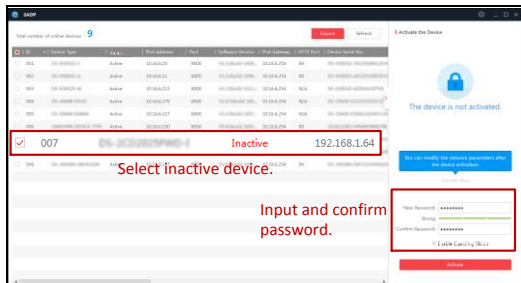


Figure 3-4 SADP Interface

## Note:

The SADP software supports activating the camera in batch. Refer to the user manual of SADP software for details.

3. Create and input the new password in the password field, and confirm the password.





**STRONG PASSWORD RECOMMENDED**– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

**Note:**

You can enable the Guarding Vision service for the device during activation. Refer to Chapter 5.1 for detailed information.

4. Click **Activate** to start activation.

You can check whether the activation is completed on the popup window. If activation failed, make sure that the password meets the requirement and try again.

## 3.3 Modify the IP Address

**Purpose:**

To view and configure the camera via LAN (Local Area Network), you need to connect the network camera in the same subnet with your PC.

Use the SADP software or client software to search and change the IP address of the device. We take modifying the IP Address via SADP software as an example to introduce the IP address modification.

For IP address modification via client software, refer to the user manual of client software.

**Steps:**

1. Run the SADP software.
2. Select an activate device.
3. Change the device IP address to the same subnet with your computer by either modifying the IP address manually or checking **Enable DHCP**.

Modify Network Parameters

☐ Enable DHCP

☒ Enable Guarding Vision

Device Serial No.:

IP Address:

Port:

Subnet Mask:

Gateway:

IPv6 Address:

IPv6 Gateway:

IPv6 Prefix Length:

HTTP Port:

Security Verification

Admin Password:

Modify

[Forgot Password](#)

Figure 3-5 Modify the IP Address

**Note:**

You can enable the Guarding Vision service for the device during activation. Refer to Chapter 5.1 for detailed information.

4. Input the admin password and click **Modify** to activate your IP address modification.

The batch IP address modification is supported by the SADP. Please refer to the User Manual of SADP for details.

## 4 Access via Web Browser

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### **System Requirement:**

Operating System: Microsoft Windows XP SP1 and above version

CPU: 2.0 GHz or higher

RAM: 1G or higher

Display: 1024×768 resolution or higher

Web Browser: Internet Explorer 8.0 and above version, Apple Safari 5.0.2 and above version, Mozilla Firefox 5.0 and above version and Google Chrome 18 and above version

### **Steps:**

1. Open the web browser.
2. In the browser address bar, input the IP address of the network camera, and press the **Enter** key to enter the login interface.

### **Note:**

The default IP address is 192.168.1.64. You are recommended to change the IP address to the same subnet with your computer.

3. Input the user name and password.

The admin user should configure the device accounts and user/operator permissions properly. Delete the unnecessary accounts and user/operator permissions.

### **Note:**

The device IP address gets locked if the admin user performs 7 failed password attempts (5 attempts for the user/operator).

4. Click **Login**.



Figure 4-1 Login Interface

5. Install the plug-in before viewing the live video and managing the camera. Please follow the installation prompts to install the plug-in.

**Note:**

You may have to close the web browser to finish the installation of the plug-in.

[Please click here to download and install the plug-in. Close the browser when installing the plug-in.](#)

Figure 4-2 Download Plug-in

6. Reopen the web browser after the installation of the plug-in and repeat steps 2 to 4 to log in.

**Note:**

For detailed instructions of further configuration, please refer to the user manual of network camera.

## 5 Operate via Guarding Vision App

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### ***Purpose:***

Guarding Vision is an application for mobile devices. With the App, you can view live image of the camera, receive alarm notification and so on.

### ***Note:***

Guarding Vision service is not supported by certain camera models.

## 5.1 Enable Guarding Vision Service on Camera

### ***Purpose:***

Guarding Vision service should be enabled on your camera before using the service.

You can enable the service through SADP software or web browser.

### 5.1.1 Enable Guarding Vision via SADP Software

#### ***Steps:***

1. Check the checkbox of **Enable Guarding Vision** on:
  - 1). "Activate the Device" page during camera activation, refer to Chapter 3.2.2.
  - 2). Or "Modify Network Parameters" page during modifying IP address, refer to Chapter 3.3.
2. Create a verification code or change the verification code.

The screenshot shows a 'Tips' dialog box with a red header bar containing the title 'Tips' and a close button (X). The main content area is white and contains the following text: 'To enable Guarding Vision service, you need to create a verification code or edit the verification code.' Below this, there are two input fields. The first is labeled 'Verification Code' and contains six dots. The second is labeled 'Confirm Verification Code' and contains six dots followed by a cursor. To the right of the first input field, there is a text block: '6 to 12 letters or numbers, case sensitive. You are recommended to use a combination of no less than 8 letters or numbers.' Below the input fields, there is a paragraph: 'The Guarding Vision service will require internet access. Please read the [Service](#) and [Privacy Policy](#) before enabling the service.' At the bottom right of the dialog, there are two buttons: 'Confirm' (red) and 'Cancel' (gray).

Tips

To enable Guarding Vision service, you need to create a verification code or edit the verification code.

Verification Code

6 to 12 letters or numbers, case sensitive. You are recommended to use a combination of no less than 8 letters or numbers.

Confirm Verification Code

The Guarding Vision service will require internet access. Please read the [Service](#) and [Privacy Policy](#) before enabling the service.

Confirm Cancel

Figure 5-1 Verification Code Setting (SADP)

**Note:**

The verification code is required when you add the camera to Guarding Vision app.

3. Click and read "Terms of Service" and "Privacy Policy".
4. Confirm the settings.


### 5.1.2 Enable Guarding Vision via Web Browser

**Before you start:**

You need to activate the camera before enabling the service. Refer to Chapter 3.2.

**Steps:**

1. Access the camera through web browser. Refer to Chapter 4.
2. Enter platform access configuration interface: **Configuration > Network > Advanced Settings > Platform Access.**



☒ Enable

Platform Access Mode:

Server IP:  ☐ Custom

Register Status:

Verification Code:

6 to 12 letters (a to z, A to Z) or numbers (0 to 9), case sensitive. You are recommended to use


 Save

Figure 5-2 Platform Access Configuration (Web)

3. Select **Platform Access Mode** as **Guarding Vision**.
4. Check **Enable**.
5. Click and read "Terms of Service" and "Privacy Policy" in pop-up window.
6. Create a verification code or change the verification code for the camera.

**Note:**

The verification code is required when you add the camera to Guarding Vision app.

7. Save the settings.



## 5.2 Guarding Vision Setup

### Steps:

1. Download and install the Guarding Vision app by searching “Guarding Vision” in App Store or Google Play™.
2. Launch the app and register for a Guarding Vision user account.
3. Log in Guarding Vision app after registration.

## 5.3 Add Camera to Guarding Vision

### Before you start:

You need to enable the Guarding Vision service on camera before adding it to your Guarding Vision account. Refer to Chapter 5.1.

### Steps:

1. Use a network cable to connect the camera with a router if the camera does not support Wi-Fi.



Figure 5-3 Connect a Router

### Note:

After the camera connects to the network, please wait one minute before any operation on the camera using Guarding Vision app.

2. In the Guarding Vision app, tap “+” on the upper-right corner and then scan the QR code of the camera to add the camera.

You can find the QR code on the camera or on the cover of the Quick Start Guide of the camera in the package.

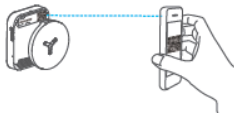



Figure 5-4 Scan QR Code

**Note:**

If the QR code is missing or too blur to be recognized, you can also add the camera by tapping the  icon and inputting the camera's serial number.

3. Input the verification code of your camera.

**Note:**

- The required verification code is the code you create or change when you enabling Guarding Vision service on camera.
- If you forget the verification code, you can check the current verification code on **Platform Access** configuration page via web browser.

4. Follow the prompts to set the network connection and add the camera to your Guarding Vision account.

**Note:**

For detailed information, refer to the user manual of the Guarding Vision app.

## 5.4 Initialize the Memory Card

### ***Steps:***

Check the memory card status by tapping on the Storage Status in the Device Settings interface.

If the memory card status displays as Uninitialized, tap to initialize it. The status will then change to Normal. You can then start recording any event triggered video in the camera such as motion detection.

