

4.0 Megapixel IP Outdoor IR Wedge Camera



Installation & Quick Setup Guide

About this Manual

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.

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Regulatory Information

FCC Information

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

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 2004/108/EC, 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



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

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) 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.

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



Warnings

- 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.

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- 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 $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$), dusty or damp locations, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for operating environment.

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- Do not expose internal components to liquid or moisture.
- While in transit, the camera shall be packed in its original packing, or packing of the same protection.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.
- If the product does not work properly, please contact tech support at 855-388-7422. 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

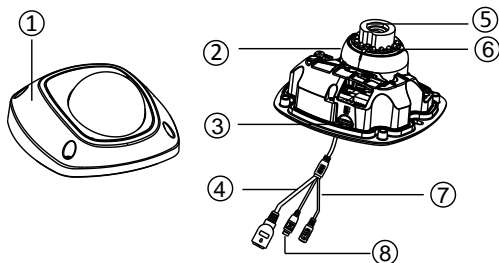


Figure 1-1 Overview (1)

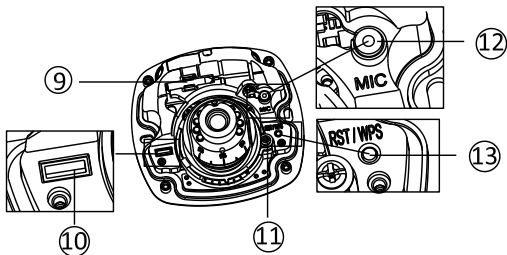


Figure 1-2 Overview (2)

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Table 1-1 Physical Description

No.	Description
1	Front Cover
2	Dome Drive
3	Micro SD Card Slot
4	Network Cable
5	Lens
6	IR LED
7	Power Cable
8	Audio/Alarm Cables
9	Not applicable for this model
10	Serial Interface
11	Hex Screw
12	Built in Microphone
13	RESET Button



- ❖ Press RESET button for 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

- ❖ No.8 is the audio/alarm cable interface, of which the “I” mark connects to the alarm input, the “o” mark connects to the alarm output, the “GND” mark connects the grounding, and the “A” mark connects the audio output (for two way audio only).

2 Installation

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 12V DC, 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:

- Dust or grease on the dome cover will cause IR reflection. Please do not remove the dome cover film until the installation is finished. If there is dust or grease on the dome cover, clean the dome cover with clean soft cloth and isopropyl alcohol.
- 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.

- The foam ring around the lens must be seated flush against the inner surface of the bubble to isolate the lens from the IR LEDs. Fasten the dome cover to camera body so that the foam ring and the dome cover are attached seamlessly.

2.1 Ceiling Mounting

Steps:

1. Drill the screw holes and the cable hole in the ceiling according to the supplied drill template.

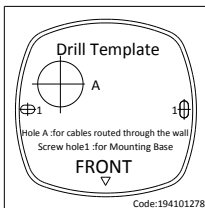


Figure 2-1 Drill Template

2. Loosen the set screw on the front cover to disassemble the camera with the supplied Allen key.

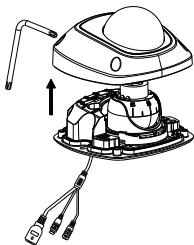


Figure 2-2 Disassemble the Camera

3. Hammer the plugs of the expansion screws to the ceiling.
4. Connect the power cable, network cable, and the audio/alarm cables.
5. Fix the camera body to the ceiling with the supplied expansion screws.

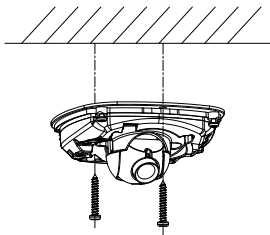


Figure 2-3 Fix the Adapter Plate

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6. View the image via the web browser.
7. Slightly loosen the hex screw beside the WPS/RESET button to adjust the surveillance angle.
8. Use the supplied adjusting tool to adjust the pan [$\pm 30^\circ$], tilt [$0\sim 80^\circ$], and rotation direction [$0\sim 360^\circ$].

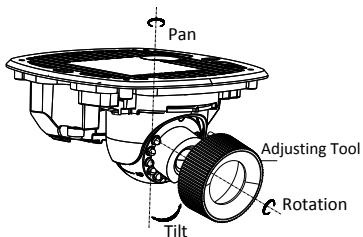


Figure 2-4 3-Axis Adjustment

9. Tighten the hex screw to fix the well-adjusted surveillance angle.
10. Align the front cover to the dome drive and tighten the set screws on the front cover.

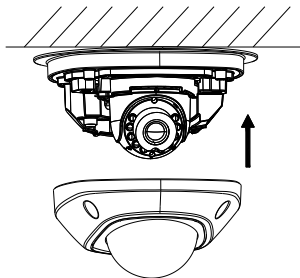


Figure 2-5 Install the Front Cover

11. Tear off the protection film softly to complete the installation.



- Do not tear off the protection film until the installation is completed.
- Do not touch the inside face of the bubble with your hands.

2.2 Installation of Network Cable Water-proof Jacket

Purpose:

If the camera is installed outdoor, you can adapt the water-proof accessory for the network cable after the camera is secured on the installation surface.

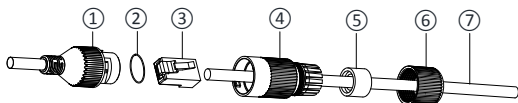


Figure 2-6 Water-proof Accessory Components

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

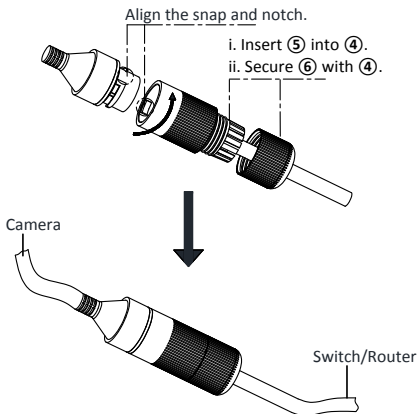


Figure 2-7 Water-proof Accessory Installation

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 water-proof 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. 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 water-proof rubber gasket ⑤ into the waterproof endcap ④, and secure lock nut ⑥ with the water-proof endcap ④.
6. Align the snap on the water-proof endcap ④ with the notch on the camera's network interface socket ①, and then secure the water-proof endcap ④ to the camera's network interface socket ① to finish installation.

2.3 Ceiling Mounting with a Gang Box

Steps:

1. Fix the adapter plate to the gang box with the supplied PM4X8 screws.

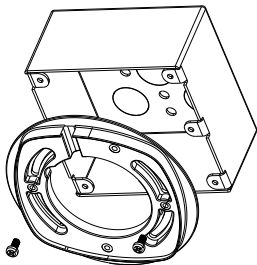


Figure 2-8 Fix the Adapter Plate

2. Fix the dome drive to the adapter plate with the supplied PM4X8 screws.

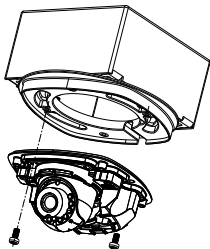


Figure 2-9 Fix the Dome Drive

3. Connect the power cable, network cable, and the alarm/audio cables.
4. Align the front cover to the dome drive and tighten the set screws on the front cover.

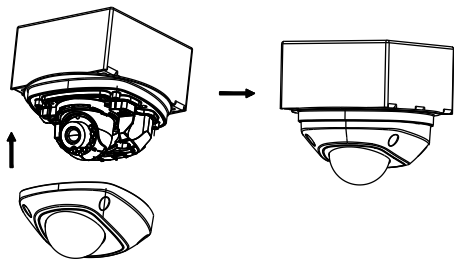


Figure 2-10 Install the Front Cover

5. Tear off the protection film softly to complete the installation.



- Do not tear off the protection film until the installation is completed.
- Do not touch the inside face of the bubble with your hands.

2.4 Pendent Mounting

Steps:

1. Install the bracket to the ceiling with the supplied screws in the bracket package.



You need to purchase a pendant bracket separately if pendant mounting is adopted.

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2. Fix the camera body to the pendent bracket with the supplied PM4X8 screws.

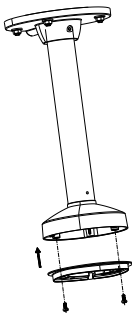


Figure 2-11 Fix the Adapter Plate

3. Install the dome drive to the adapter plate.

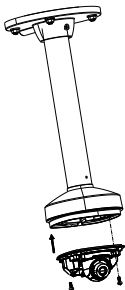


Figure 2-12 Fix the Dome Drive

4. Align the front cover to the dome drive and tighten the set screws on the front cover to complete the installation.

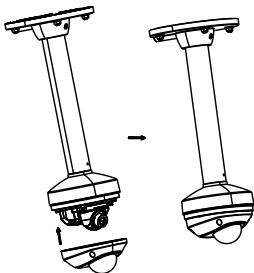


Figure 2-13 Install the Front Cover

5. Tear off the protection film softly to complete the installation.



- Do not tear off the protection film until the installation is completed.
- Do not touch the inside face of the bubble with your hands.

2.5 Wall Mounting

Steps:

1. Install the wall bracket to the wall with the supplied screws in the wall bracket package.



You need to purchase a wall bracket separately if wall mounting is adopted.

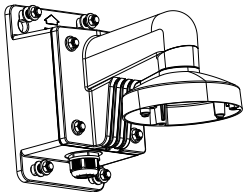


Figure 2-14 Install Wall Bracket

2. Fix the adapter plate to the wall bracket.

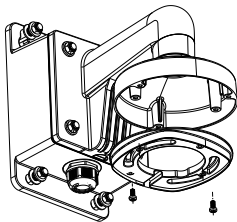


Figure 2-15 Fix the Adapter Plate

3. Fix the dome drive to the wall bracket with the supplied screws.

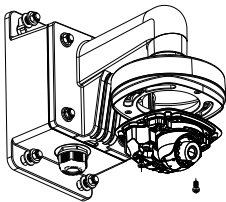


Figure 2-16 Install the Camera

4. Align the front cover to the dome drive and tighten the set screws on the front cover to complete the installation.

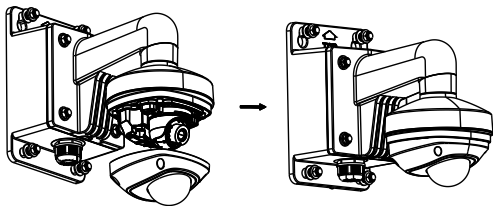


Figure 2-17 Install the Front Cover

5. Tear off the protection film softly to complete the installation.



- Do not tear off the protection film until the installation is completed.

- Do not touch the inside face of the bubble with your hands.

2.6 Install the Micro SD Card

This series of camera supports local storage, please refer to the following steps to install the micro SD card.

Steps:

1. Remove the front cover by loosening the set screws on it.

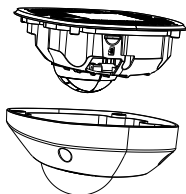


Figure 2-18 Remove the Front Cover

2. Insert the micro SD card to the card slot until you hear a click.
3. Slightly push the inserted micro SD card to uninstall it from the camera.

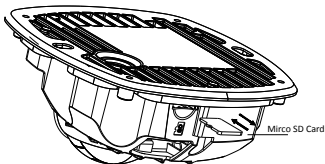


Figure 2-19 Install and Uninstall Micro SD Card

3 Setting 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.

3.1 Wiring

Please connect to the camera to the network according to the following figures

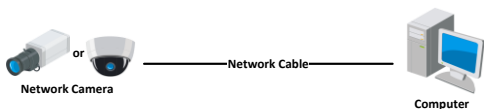


Figure 3-1 Connecting Directly

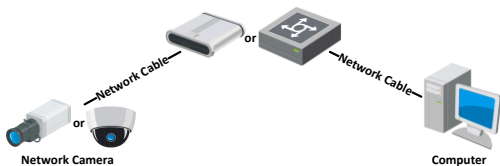


Figure 3-2 Connecting via a Switch or a Router

3.2 Activating 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 take activation via SADP software and Activation via Web Browser as examples to introduce the camera activation. Please 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, and connect the camera to the network.
2. Input the IP address into the address bar of the web browser, and click Enter to enter the activation interface.
 - The default IP address of the camera is 192.168.1.64.
 - The computer and the camera should belong to the same subnet.

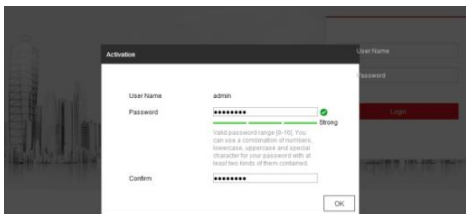


Figure 3-3 Activation Interface(Web)

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.

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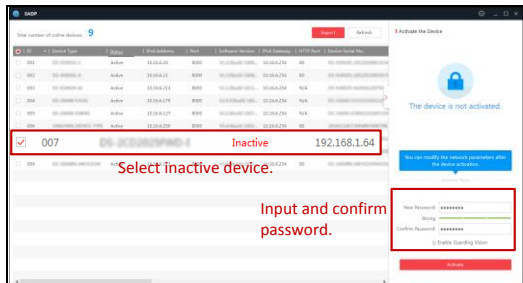


Figure 3-4 SADP Interface

Note:

The SADP software supports activating the camera in batch. Please 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 6.1 for detailed information.

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

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

3.3 Modifying 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 active device.

Note:

Please refer to Section 3.2 to activate the camera if the camera is inactive.

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3. Change the device IP address to the same subnet with your computer by either modifying the IP address manually or checking the checkbox of 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 6.1 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 Accessing via Web Browser

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



Figure 4-3 Install Plug-in (1)

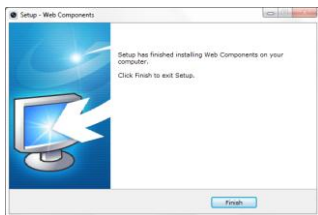


Figure 4-4 Install Plug-in (2)

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

Note:

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

5 Operating via Guarding Vision App

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 4.2.2.
 - 2). Or "Modify Network Parameters" page during modifying IP address, refer to Chapter 4.3.
2. Create a verification code or change the verification code.

The screenshot shows a 'Tips' dialog box with a red header bar containing a close button (X). The main text reads: '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 note: '6 to 12 letters or numbers, case sensitive. You are recommended to use a combination of no less than 8 letters or numbers.' At the bottom of the dialog, there is a grey bar with two buttons: 'Confirm' (red) and 'Cancel' (white).

Verification Code

Confirm 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.

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.

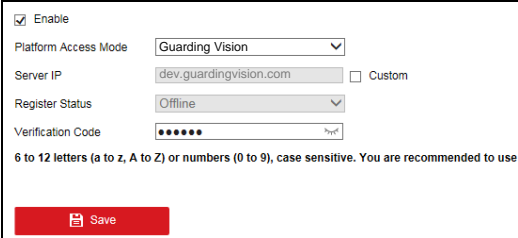
5.1.2 Enable Guarding Vision via Web Browser

Before you start:

You need to activate the camera before enabling the service. Refer to Chapter 4.2.

Steps:

1. Access the camera through web browser. Refer to Chapter 5.
2. Enter platform access configuration interface: Configuration > Network > Advanced Settings > Platform Access



☒ Enable

Platform Access Mode: Guarding Vision

Server IP: dev.guardingvision.com ☐ Custom

Register Status: Offline

Verification Code: •••••• Copy

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 the checkbox of 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 Adding 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 6.1.

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.

Installation & Quick Setup Guide

You can find the QR code on the camera or on the cover of the Quick Start Guide of the camera in the package. Camera may differ from picture shown in Figure 5-4.

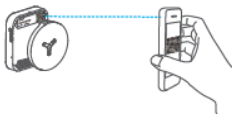



Figure 5-4 Scan QR Code

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.

