Network Panoramic Camera

Quick Start Guide

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About this Manual

This Manual is applicable to Network Panoramic 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.

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

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 (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.

Warnings Follow these safeguards to prevent	**Cautions** Follow these precautions to prevent potential

serious injury or death.	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.

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 -40 °C to +60 °C (-40 °F to +140 °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.
- Keep the camera away from liquid while in use.
- While in delivery, the camera shall be packed in its original packing, or packing of the same texture.
- Regular part replacement: a few parts (e.g. electrolytic capacitor) of the equipment shall be replaced regularly according to their average enduring time. The average time varies because of differences between operating environment

and using history, so regular checking is recommended for all the users. Please contact with your dealer for more details.

- 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 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

The overview of the camera is shown below.

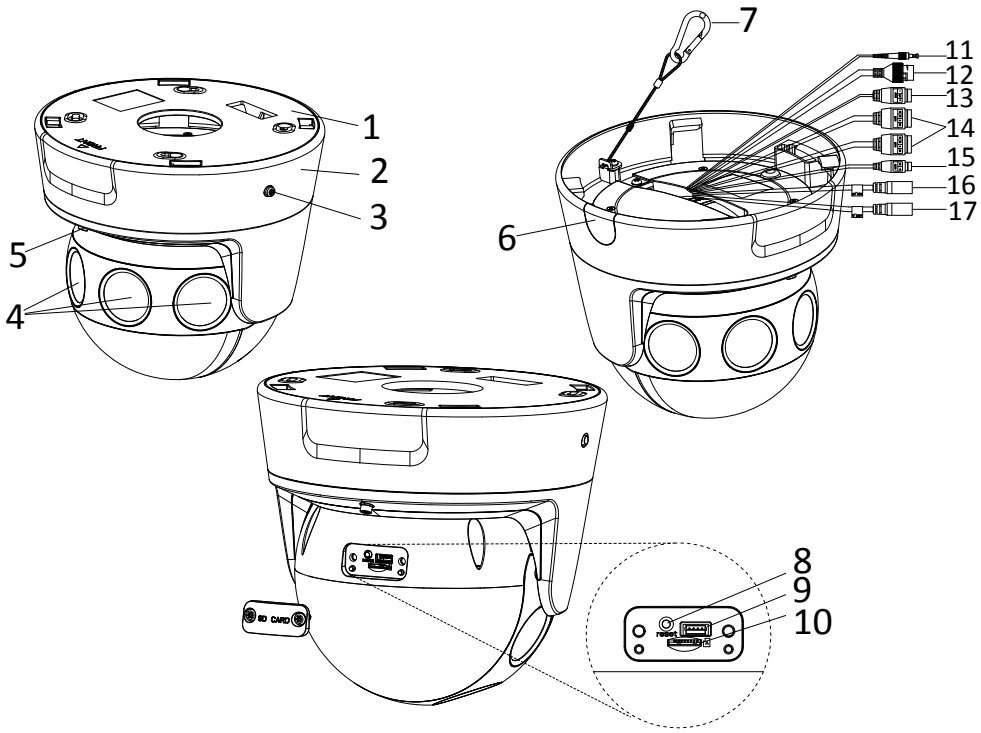

Figure 1-1 Overview of the Camera

Table 1-1 Description

No.	Description
1	Adapter Plate
2	Bottom Base
3	Locking Screw

No.	Description
4	Lens
5	Adjusting Screw
6	Side Cable Outlet
7	Security Rope
8	Reset Button
9	RS232 Interface
10	Memory Card Slot
11	FC Optical Interface (Optional)
12	Network Interface
13	Power Interface
14	Alarm Interface (Optional)
15	RS485 Interface
16	Audio Output Interface (Optional)
17	Audio Input Interface (Optional)

Note:

- The camera functions may vary with the models.
- Hold Reset about 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

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 12 VDC or PoE (802.3at). 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 precaution 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 Memory Card Installation

The camera supports memory card installation.

Steps:

1. Loosen the adjusting screw.

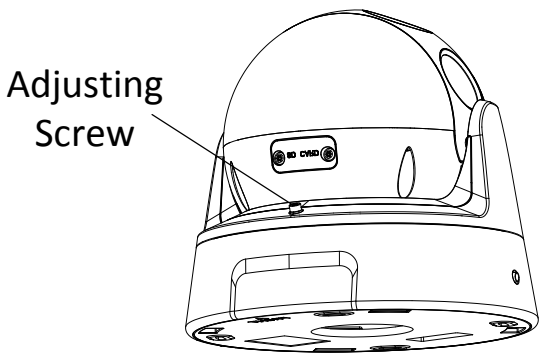

Figure 2-1 Loosen the Adjusting Screw

2. Rotate the camera body to completely expose the memory card slot.
3. Loosen the screws to remove the cover of the memory card slot and insert the memory card into the slot.

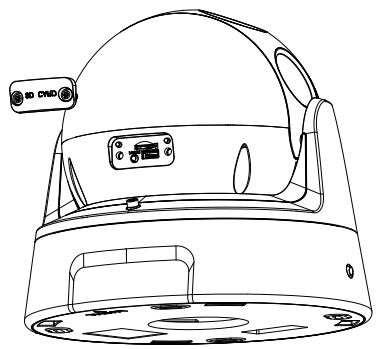

Figure 2-2 Insert the Memory Card

4. Tighten the screws to replace the slot cover and fasten the adjusting screw.

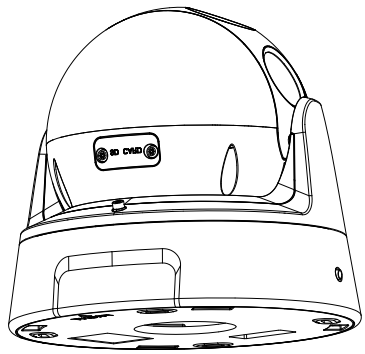

Figure 2-3 Fasten the Adjusting Screw

2.2 Camera Mounting

2.2.1 Ceiling Mounting

Steps:

1. Paste the drill template on the ceiling and drill holes according to the marked holes on the drill template.

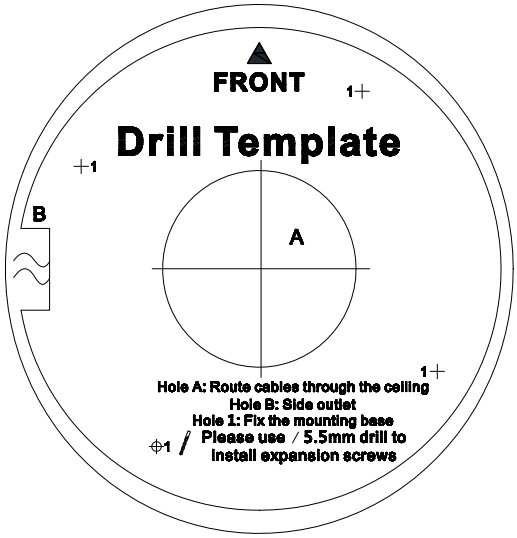

Figure 2-4 Drill Holes on the Ceiling

2. (Optional) If you need to route cables through the ceiling, cut a cable hole according to the drill template.
3. Loosen the locking screw and rotate to uninstall the adapter plate from the camera.

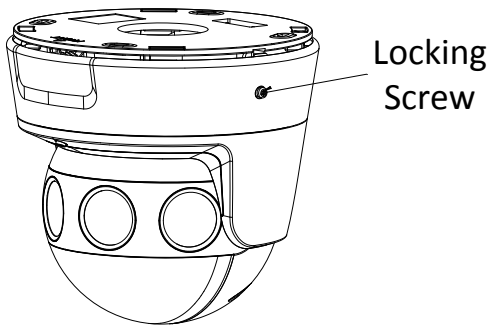

Figure 2-5 Uninstall the Adapter Plate

4. Secure the adapter plate to the ceiling with screws.

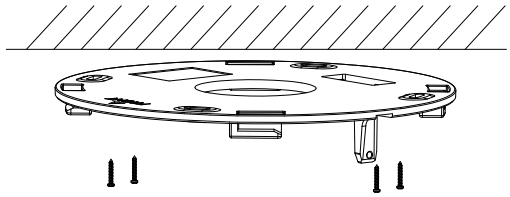

Figure 2-6 Secure the Adapter Plate to the Ceiling

5. Hang the camera to the adapter plate with the security rope.

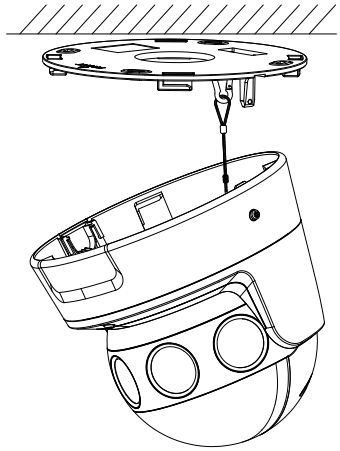

Figure 2-7 Hang the Security Rope to the Adapter Plate

6. Route the cables of the camera.
7. (Optional) Install the water-proof jacket for the network cable and install the water-proof tape for the cables. For details, refer to 2.3 and 2.4.
8. Push and rotate the camera into the adapter plate until it clicks into place. Tighten the locking screw.

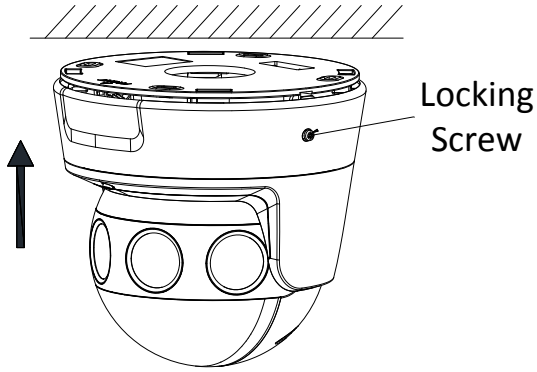

Figure 2-8 Secure the Camera into the Adapter Plate

9. Adjust the view angle of the camera.

   1). Loosen the adjusting screw.

   2). Adjust the panning and tilting position of the camera. The adjusting range of the panning is from 0° to 355°, and the range of the tilting is from 0° to 90°.

   3). Tighten the adjusting screw.

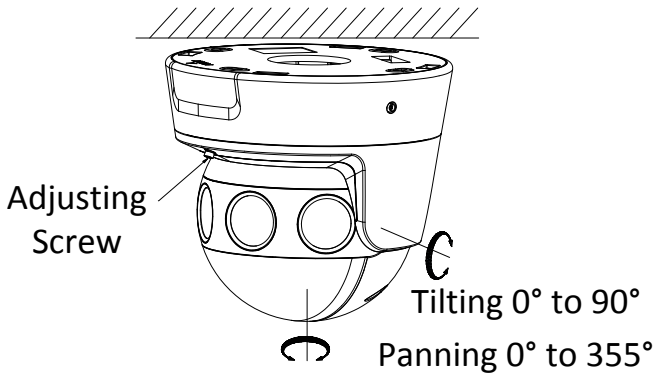

Figure 2-9 View Angle Adjustment

2.2.2 Wall Mounting

Before you start:

The wall mounting bracket is not included in the package. You need to purchase the wall mount bracket separately.

Steps:

1. Hang the security rope to the bracket and secure the supplied cap to the bracket.

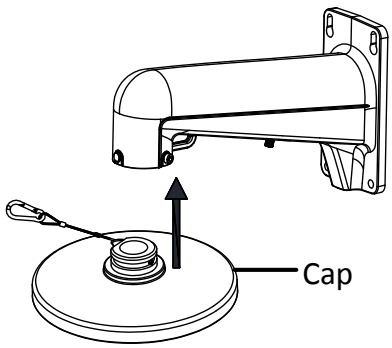

Figure 2-10 Secure the Cap to the Bracket

2. Loosen the locking screw and rotate to uninstall the adapter plate from the camera.

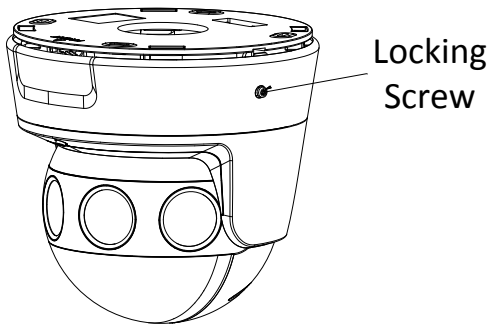

Figure 2-11 Uninstall the Adapter Plate

3. Install the adapter plate to the cap with screws.

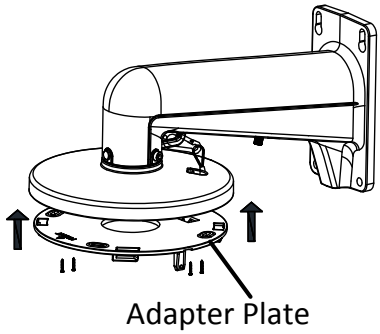

Figure 2-12 Install the Adapter Plate to the Cap

4. Install the camera to the bracket. The following steps are similar to the ceiling mounting. Refer to the step 6 to 9 in 2.2.1 Ceiling Mounting for details.

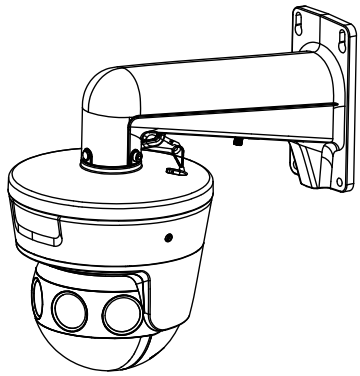

Figure 2-13 Install the Camera to the Bracket

2.2.3 Pendant Mounting

Before you start:

The pendant mounting bracket is not included in the package. You need to purchase the pendant mount bracket separately.

Steps:

1. Hang the security rope to the bracket and secure the supplied cap to the bracket and.

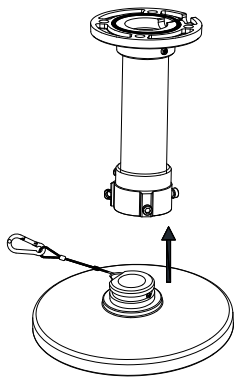

Figure 2-14 Secure the Cap to the Bracket

2. Loosen the locking screw and rotate to uninstall the adapter plate from the camera.

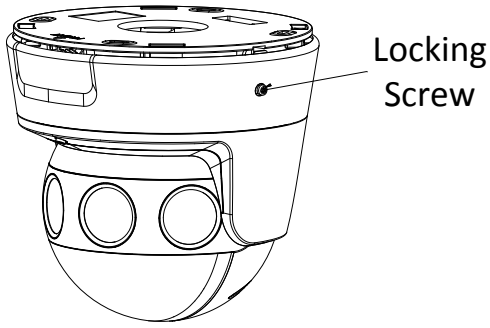

Figure 2-15 Uninstall the Adapter Plate

3. Install the adapter plate to the cap with screws.

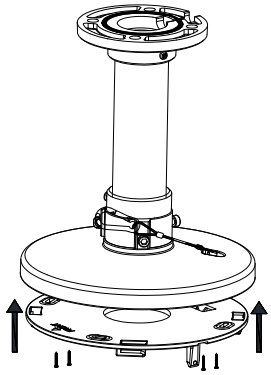

Figure 2-16 Install the Adapter Plate to the Cap

4. Install the camera to the bracket. The following steps are similar to the ceiling mounting. Refer to the step 6 to 9 in 2.2.1 Ceiling Mounting for details.

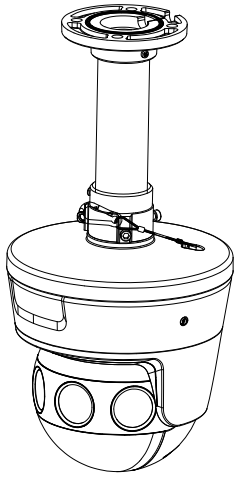

Figure 2-17 Install the Camera to the Bracket

2.3 Installation of Network Cable Water-proof Jacket (Optional)

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.

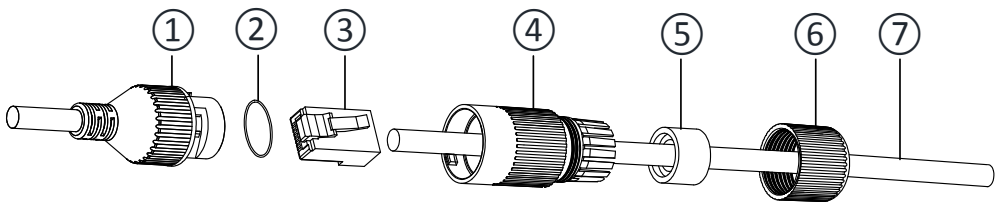

Figure 2-18 Water-proof Accessory Components

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

Steps:

1) Feed the plugless network cable ⑦ through the lock nut ⑥, waterproof rubber gasket ⑤ (the rubber gasket inset ridge must face the waterproof endcap), and the waterproof endcap ④ in order.
2) Crimp an RJ-45 network plug ③onto 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 socket①.
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.

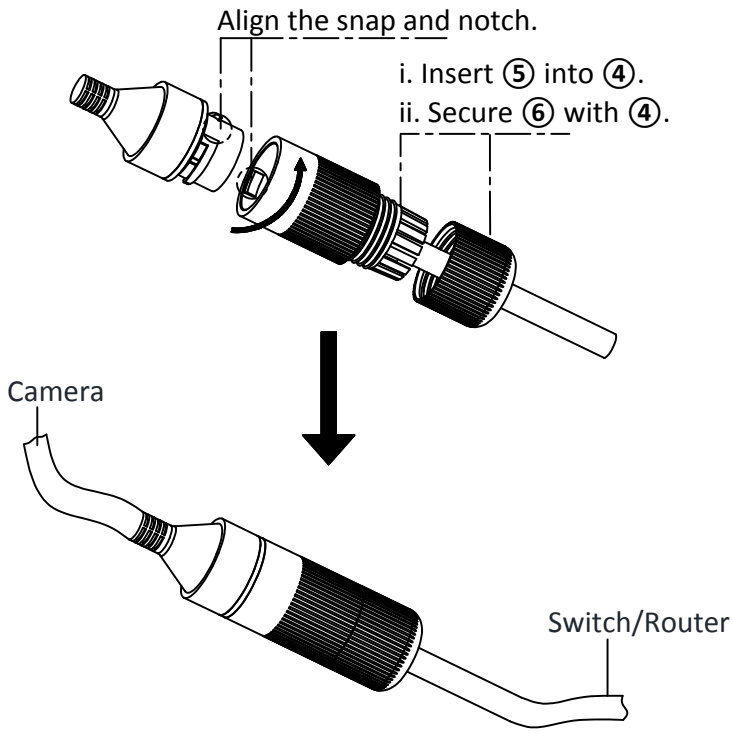

Figure 2-19 Water-proof Accessory Installation

2.4 Installation of Water-proof Tape (Optional)

Purpose:

If the camera is installed outdoor, you can use supplied water-proof tape to protect cable connectors and unused cables after the camera is secured on the installation surface.

Steps:

1. Tear off the yellow release paper on the back of the water-proof tape.
2. Stretch the water-proof tape to reach twice the initial length.

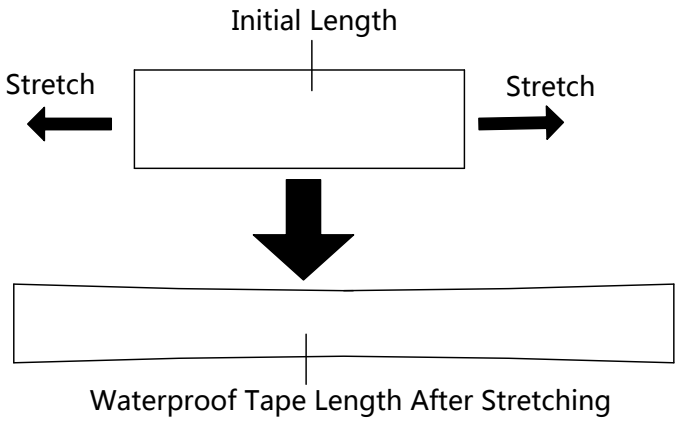

Figure 2-20 Stretch the Water-proof Tape

3. Wrap the water-proof tape around the cable connector tightly as the figure below.

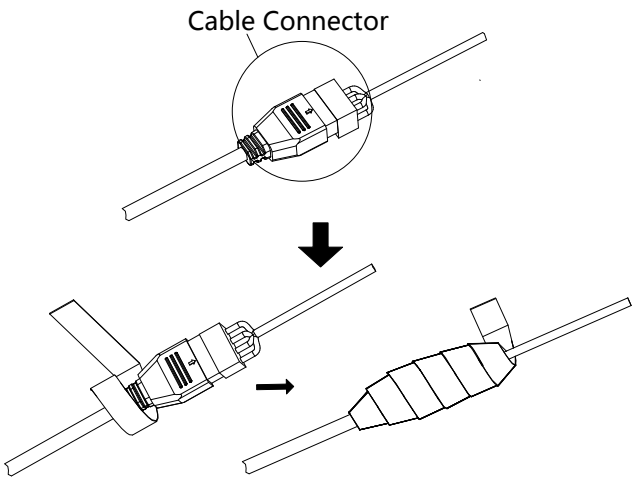

Figure 2-21 Wrap the Water-proof Tape

Note:

Make sure that all naked wires are firmly wrapped in the water-proof tape.

4. Press the tape on both ends of the connector to make sure no water can get in as the figure below.

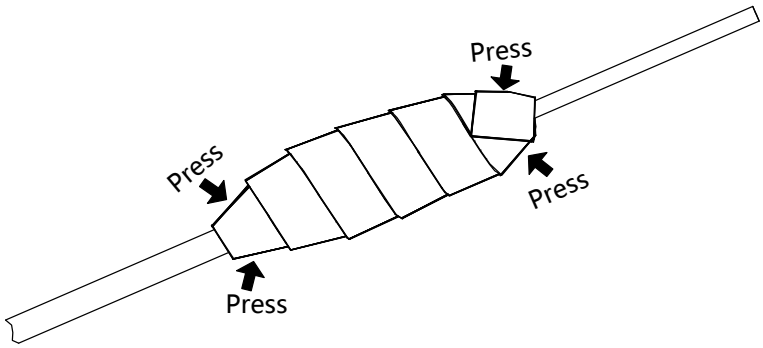

Figure 2-22 Press the Water-proof Tape

5. Wrap the water-proof tape around the remaining unused cables tightly as the figure below.

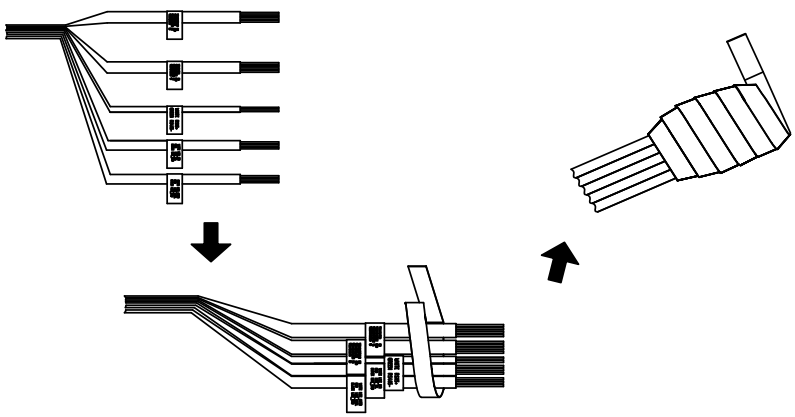

Figure 2-23 Wrap the Water-proof Tape

Note:

Make sure that all naked wires are all firmly wrapped in the water-proof tape.

6. Press the tape to make sure no water can get in as the figure below.

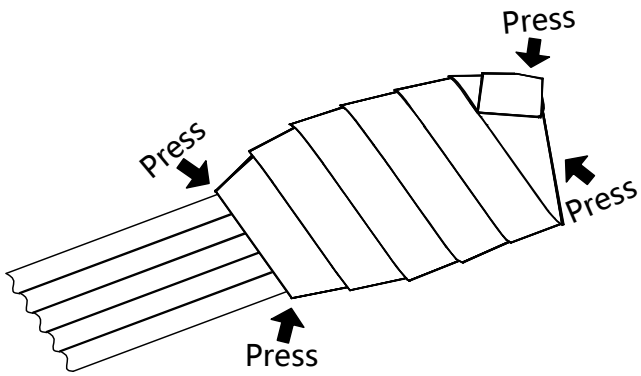

Figure 2-24 Press the Water-proof Tape

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.
- 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.

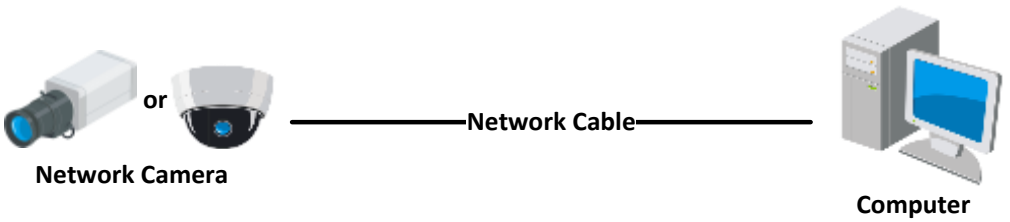

Figure 3-1 Connecting Directly

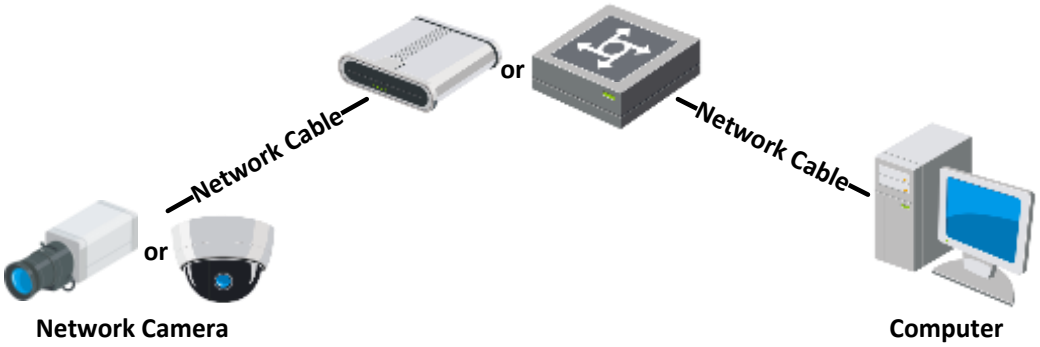

Figure 3-2 Connecting via a Switch or a Router

3.2 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 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.

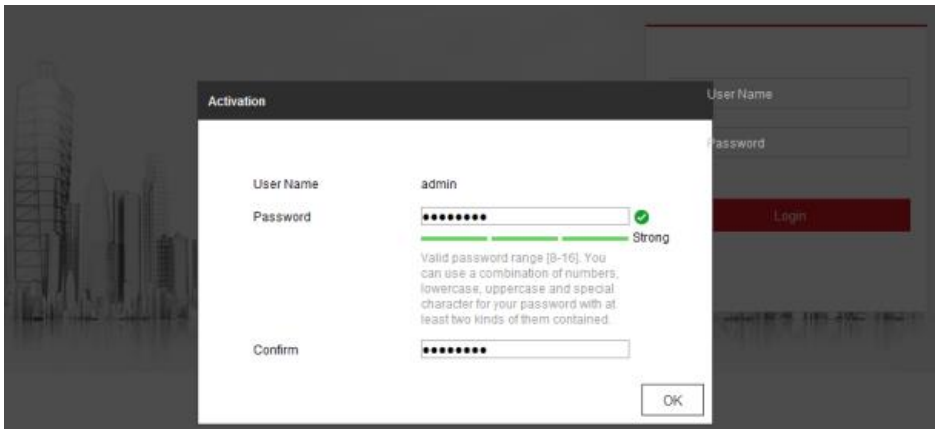

Figure 3-3 Activation Interface(Web)

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.

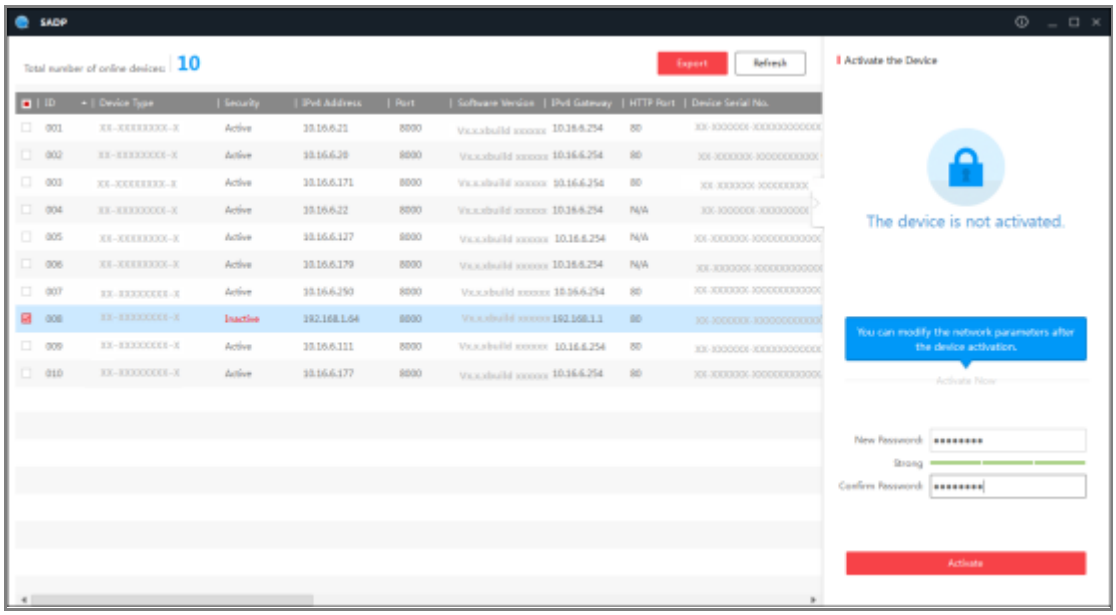

Figure 3-4 SADP Interface

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.*

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 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 activate device.
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.

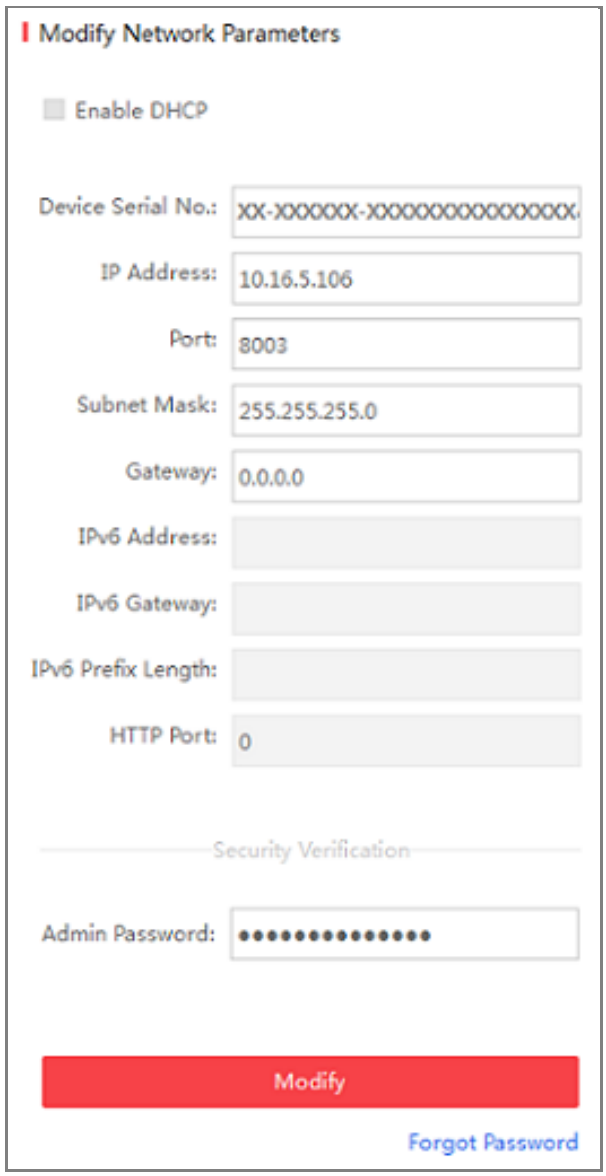

Figure 3-5 Modify the IP Address

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.

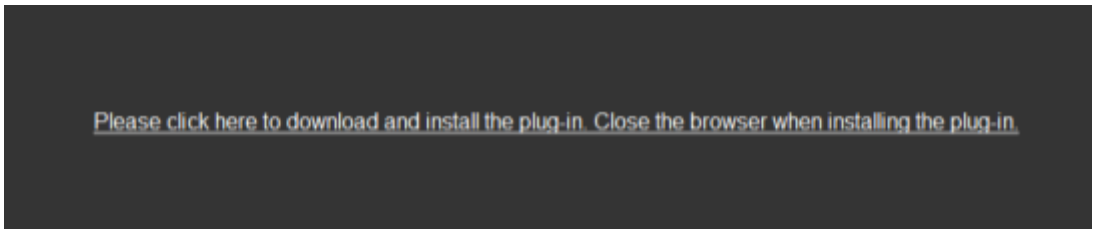

Figure 4-2 Download Plug-in

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

Note:

For detailed instructions of further configuration, please refer to the *User Manual of Network Camera*.

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