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dahua ctxtest02 All in one Bullet Network Camera User Guide

Contents

dahua ctxtest02 All-in-one Bullet Network Camera

All-in-one Bullet Network Camera Quick Start Guide

Product Information

The All-in-one Bullet Network Camera is a security camera designed for indoor or outdoor use. It features high-definition video recording, night vision capability, and remote access via a mobile app or web browser. The camera is powered by a standard power supply conforming to the requirements of ES1 in IEC 62368-1 standard and should be installed and operated in compliance with local electrical safety codes.

Safety Instructions

When using the All-in-one Bullet Network Camera, please follow these safety instructions:

- Avoid potential hazards that could result in injury or property damage
- Comply with local privacy protection laws and regulations
- Ensure power supply requirements conform to the device label
- Do not aim the camera at strong light sources such as lamp light or sunlight to avoid over-brightness or light marks on th video recording

Product Usage Instructions

The All-in-one Bullet Network Camera can be used for both indoor and outdoor surveillance. To use the camera:

1. Connect the camera to the power supply using the included power cable
2. Connect the camera to a network via an Ethernet cable or Wi-Fi
3. Install the mobile app or access the web browser interface to configure and control the camera
4. To view live video or recorded footage, log in to the mobile app or web browser interface from anywhere with an internet connection

For more detailed information on setting up and using the All-in-one Bullet Network Camera, refer to the User Manual included with the device or visit the manufacturer's website.

Foreword

General
This manual introduces the functions, installation, and operations of the camera.

Safety Instructions
The following categorized signal words with defined meaning might appear in the manual.

Signal Words	Meaning
⚠ WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
⚠ CAUTION	Indicates a potential risk that, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
📖 NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Date
V1.0.3	Updated the description of alarm output.	November 2021
V1.0.2	Updated "Important Safeguards and Warnings."	April 2020
V1.0.2	Modified the picture in **"3.3.1 Installation Method".**	August 2020
V1.0.1	Modified the picture of **Figure 1-2.**	June 2020
V1.0.0	First release.	June 2020

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating of the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper User Manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All the designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.

- There might be deviations in the description of the technical data, functions and operations, or errors in the print. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device. If there is any uncertainty or controversy, we reserve the right of final explanation

Important Safeguards and Warnings

Electrical Safety

- All installation and operation should conform to your local electrical safety codes.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Note that the power supply requirements are subject to the device label.
- Make sure the power supply is correct before operating the device.
- A readily accessible disconnect device shall be incorporated in the building installation wiring.
- Prevent the power cable from being trampled or pressed, especially the plug, power socket and the junction extruded from the device.

Environment

- Do not aim the device at strong light to focus, such as lamp light and sun light; otherwise it might cause over brightness or light marks, which are not the device malfunction, and affect the longevity of Complementary Metal-Oxide Semiconductor (CMOS).
- Do not place the device in a damp or dusty environment, extremely hot or cold temperatures, or the locations with strong electromagnetic radiation or unstable lighting.
- Keep the device away from any liquid to avoid damage to the internal components.
- Keep the indoor device away from rain or damp to avoid fire or lightning.
- Keep sound ventilation to avoid heat accumulation.
- Transport, use and store the device within the range of allowed humidity and temperature.
- Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.
- Pack the device with standard factory packaging or the equivalent material when transporting the device.
- Install the device in the location where only the professional staff with relevant knowledge of safety guards and warnings can access. The accidental injury might happen to the non-professionals who enter the installation area when the device is operating normally.

Operation and Daily Maintenance

- Do not touch the heat dissipation component of the device to avoid scald.
- Carefully follow the instructions in the manual when disassembling operation about the device; otherwise, it might cause water leakage or poor image quality due to unprofessional operations. Make sure that the gasket ring is flat and properly installed in the groove before installing the cover. Contact after-sales service for

desiccant replacement if there is condensed fog on the lens after unpacking or when the desiccant turns green (Not all models are included with the desiccant).

- We recommend using the device together with lightning arrester to improve lightning protection effect.
- We recommend grounding the device to enhance reliability.
- Do not touch the image sensor (CMOS) directly. Dust and dirt could be removed with air blower, or you can wipe the lens gently with soft cloth that is moistened with alcohol.
- You can clean the device body with soft dry cloth, and for stubborn stains, use the cloth with mild detergent. To avoid possible damage on device body coating which could cause performance decrease, do not use volatile solvent such as alcohol, benzene, diluent to clean the device body, nor can strong, abrasive detergent be used.
- Dome cover is an optical component. Do not touch or wipe the cover with your hands directly during installation or operation. For removing dust, grease or fingerprints, wipe gently with moistened oil-free cotton with diethyl or moistened soft cloth. You can also remove dust with an air blower.

WARNING

- Please strengthen the protection of network, device data and personal information by adopting measures which include but not limited to using strong password, changing password regularly, upgrading firmware to the latest version, and isolating computer network. For some device with old firmware versions, the ONVIF password will not be modified automatically along with the modification of the system password, and you need to upgrade the firmware or manually update the ONVIF password.
- Use standard components or accessories provided by manufacturer and make sure the device is installed and maintained by professional engineers.
- The surface of the image sensor should not be exposed to laser beam radiation in an environment where a laser beam device is used.
- Do not provide two or more power supply sources for the device unless otherwise specified. A failure to follow this instruction might cause damage to the device.

Introduction

Cable

Waterproof all the cable joints with insulating tape and waterproof tape to avoid short circuit and water damage. For the detailed operation, see FAQ manual.
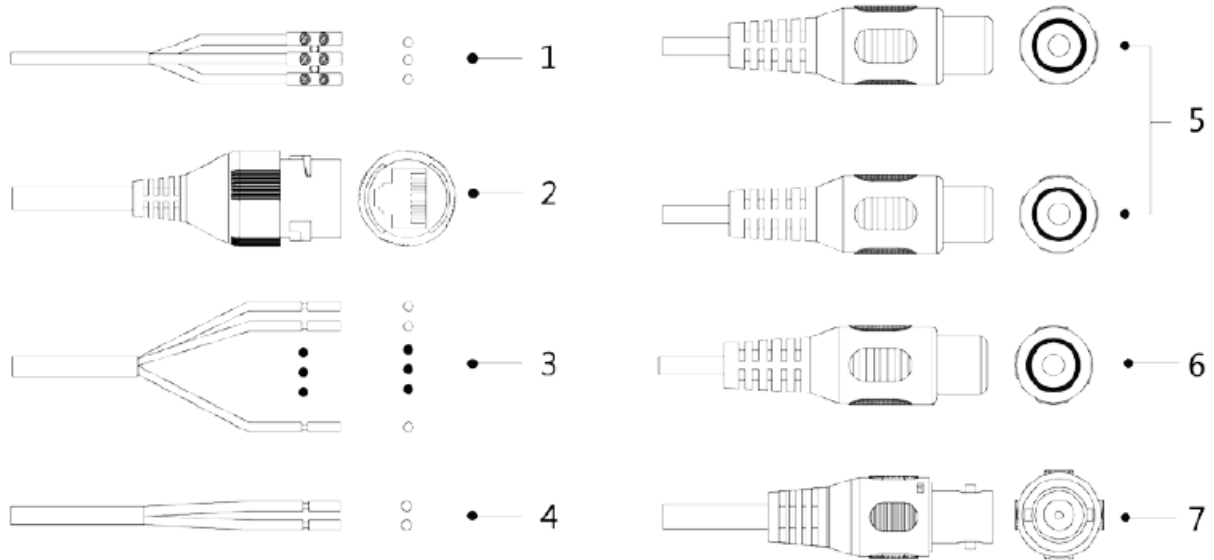
Figure 1-1 Cables

Table 1-1 Cable information

No.	Port name	Description
1	Power input	Inputs 12 VDC power. Be sure to supply power as instructed in the manual. Device abnormity or damage might occur if power is not supplied correctly.
2	Ethernet port	Connects to network with network cable.
3	Alarm I/O	Includes alarm signal input and output ports, and the number of I/O ports might vary on different devices. For detailed information, see **Table 1-2.**
4	RS-485	Controls external PTZ and so on. l Yellow: RS-485 A. l Orange: RS-485 H.
5	Audio input	Connects to sound pickups to receive the audio signals. Audio input is available on select models.
6	Audio output	Connects to the speaker to output audio signal. Audio output is available on select models.
7	CVBS	Outputs analog video signal.

Table 1-2 Alarm information

Port	Port Name	Description
Alarm I/O	ALARM_IN	Receives the switch signal of external alarm source.
	ALARM_GND	Connect different alarm input devices to the same ALARM_IN_ GND port.

Port	Port Name	Description	
	ALARM_COM	Outputs alarm signal to alarm device.	
	ALARM_ON	When connecting to alarm device, only the ALARM_COM port and ALARM_ON port with the same	
		number can be used together.	

Connecting Alarm Input / Output

The camera can connect to external alarm input/output device through digital input/output.

Alarm input/output is available on select models.

Step 1 Connect alarm input device to the alarm input end of the I/O port. Device collects different states of alarm input port when the input signal is idling and being grounded.

- Device collects logic "1" when input signal is connected to +3 V to +5 V or idling.
- Device collects logic "0" when input signal is grounded.

Figure 1-2 Alarm input
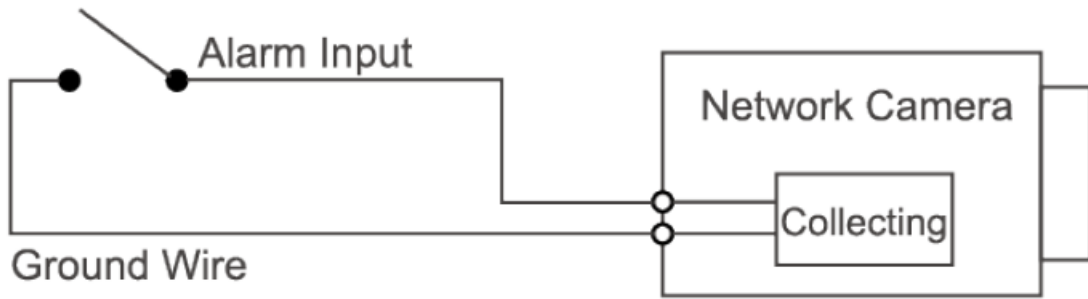
Step 2 Connect alarm output device to the alarm output end of the **I/O** port. The alarm output is relay switch output, which can only connect to NO alarm devices.

NO1 and **COM1** or **NO2** and **COM2** constitute a switch to provide the alarm output, which is shown in Figure 1-3. The switch is open normally and closed when there is alarm output.

Figure 1-3 Alarm output
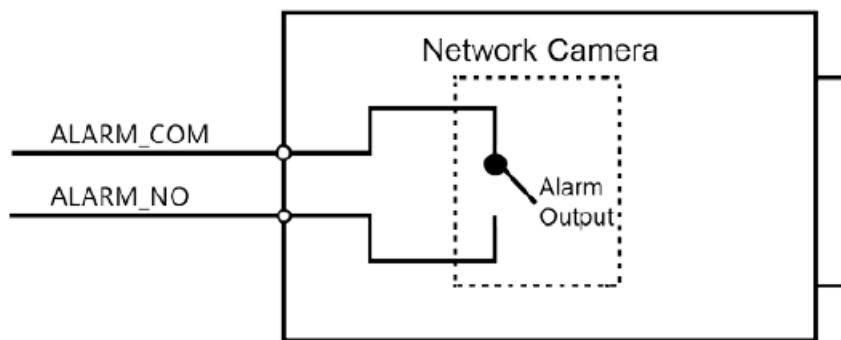
Step 3 Log in to web page, and configure alarm input and alarm output in alarm setting.

- The alarm input on the web page is corresponding to the alarm input end of the I/O port. There will be high-level and low-level alarm signals generated by the alarm input device when an alarm occurs, set the input mode to "NO" (default) if the alarm input signal is logic "0" and to "NC" if the alarm input signal is logic "1"

- The alarm output on the web interface is corresponding to the alarm output end of the device, which is also the alarm output end of the I/O port.

Network Configuration

Device initialization and IP setting can be finished with the ConfigTool or on the web page. For more information, see the web operation manual.

- Device initialization is available on select models, and it is required at first-time use and after the device is reset.
- Device initialization is available only when the IP addresses of the device (192.168.1.108 by default) and the PC stays in the same network segment.
- Plan usable network segments properly to connect the device to the network.
- The following figures and interfaces are for reference only.

Initializing Device

Step 1 Double-click ConfigTool.exe to open the tool.

Step 2 Click ![Modify IP].
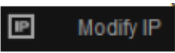
Step 3 Click Search Setting.

Figure 2-1 Setting

Step 4 Select the searching way.

- **Current Segment Search (default)**

  Select the Current Segment Search checkbox. Enter the username in the Username box and the password in the Password box. The system will search for devices accordingly.

- **Other Segment Search**

  Select the Other Segment Search checkbox. Enter IP address in the Start IP box and End IP box respectively. Enter username and password. The system will search for the devices accordingly.

- If you select the Current Segment Search checkbox and the Other Segment Search checkbox together, the system searches for devices under both conditions.

- Enter your username and password when you want to change IP, configure the system, update the device, restart the device, and more.

Step 5 Click OK.

Step 6 Select one or several devices in uninitialized status, and then click Initialize.

Step 7 Select the devices to be initialized, and then click Initialize.

- If you do not provide the linked information for password reset, you can reset the password only through XML file.

- When initializing multiple devices, ConfigTool initializes all devices based on the password reset mode of the first selected device.

Figure 2-2 Password setting

- **Step 8** Set and confirm the password of the devices, then enter a valid email address, and then click Next.

Figure 2-3 Device initialization

Step 9 Select Easy4ip or select Auto-check for updates as needed. If neither, leave them unselected.

Step 10 Click OK to initialize the device. Click the success icon (✓) or the failure icon (⚠) for the details.
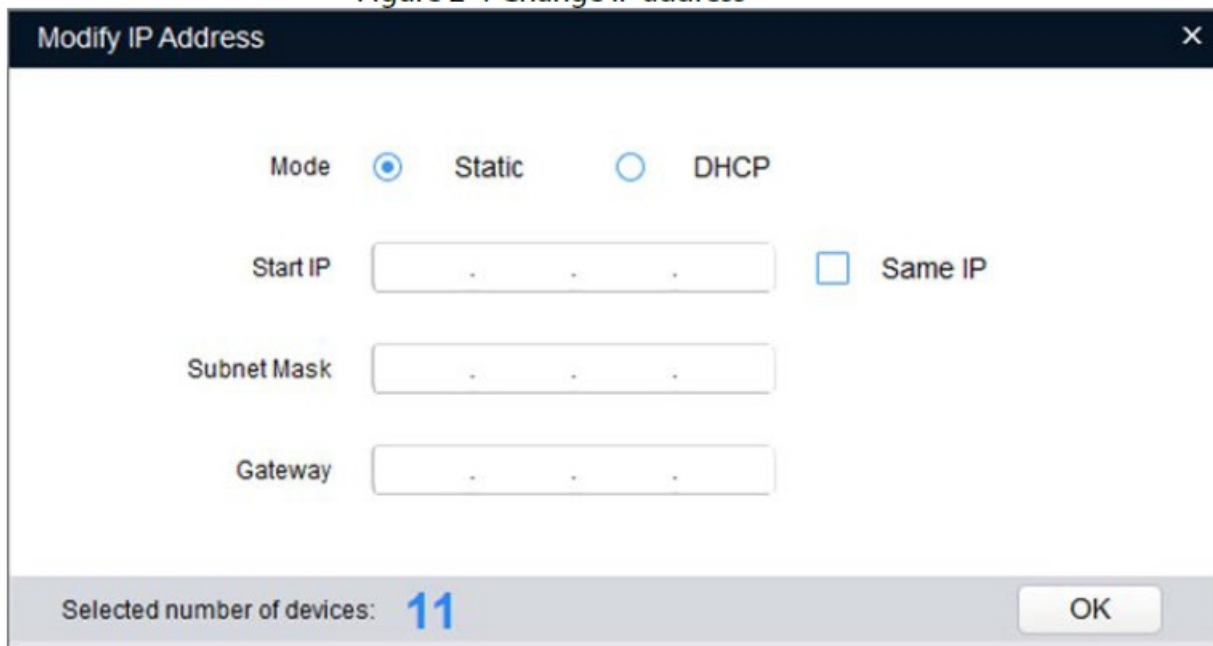
Step 11 Click Finish.

Changing Device IP Address

- You can change IP address of one or multiple devices at one time. This section is based on changing IP addresses in batches.
- Changing IP addresses in batches is available only when the corresponding devices have the same login password.

Step 1: Follow Step1 to Step4 in "2.1 Initializing Device" to search devices in your network segment.
After clicking Search Setting, enter the username and password, and make sure that they are the same as what you set during initialization; otherwise there will be wrong password notice.

Step 2: Select the devices whose IP addresses need to be changed, and then click Batch Modify IP.

Figure 2-4 Change IP address

Step 3 Select Static mode, and then enter start IP, subnet mask, and gateway.

- **IP** addresses of multiple devices will be set to the same if you select the Same IP checkbox.
- **If DHCP** server is available in the network, devices will automatically obtain IP addresses from DHCP server when you select DHCP.

Step 4 Click **OK**.

Logging in to Web Page

Step 1 Open IE browser, enter the IP address of the device in the address bar, and then press the Enter key.
If the setup wizard is displayed, finish the settings as instructed.
Step 2 Enter the username and password in the login box, and then click Login.
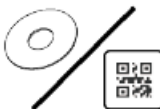**Step 3** For the first-time login, click Click Here to Download Plugin, and then install the plugin as instructed.
The home page is displayed when the installation is finished.

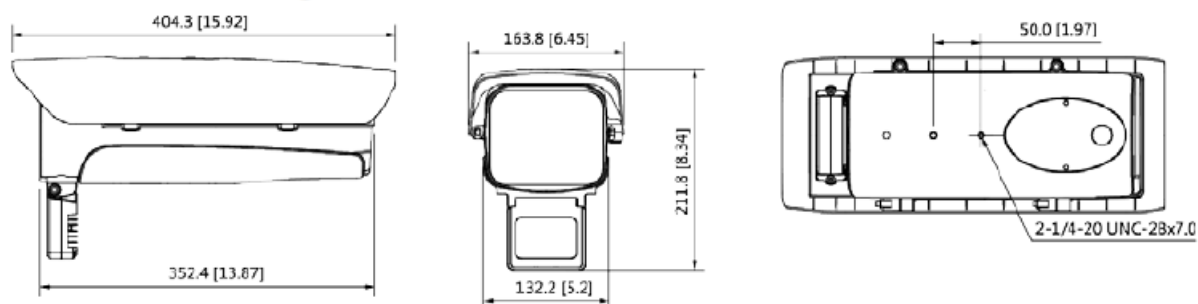**Installation**

Packing List

- The tool required for the installation such as an electric drill is not provided in the package.
- The operation manual and related tool information are contained in the disk or the QR code.

Figure 3-1 Packing list

Network Camera × 1   Manual × 2   CD-ROM/QR Code × 1   Wrench × 1

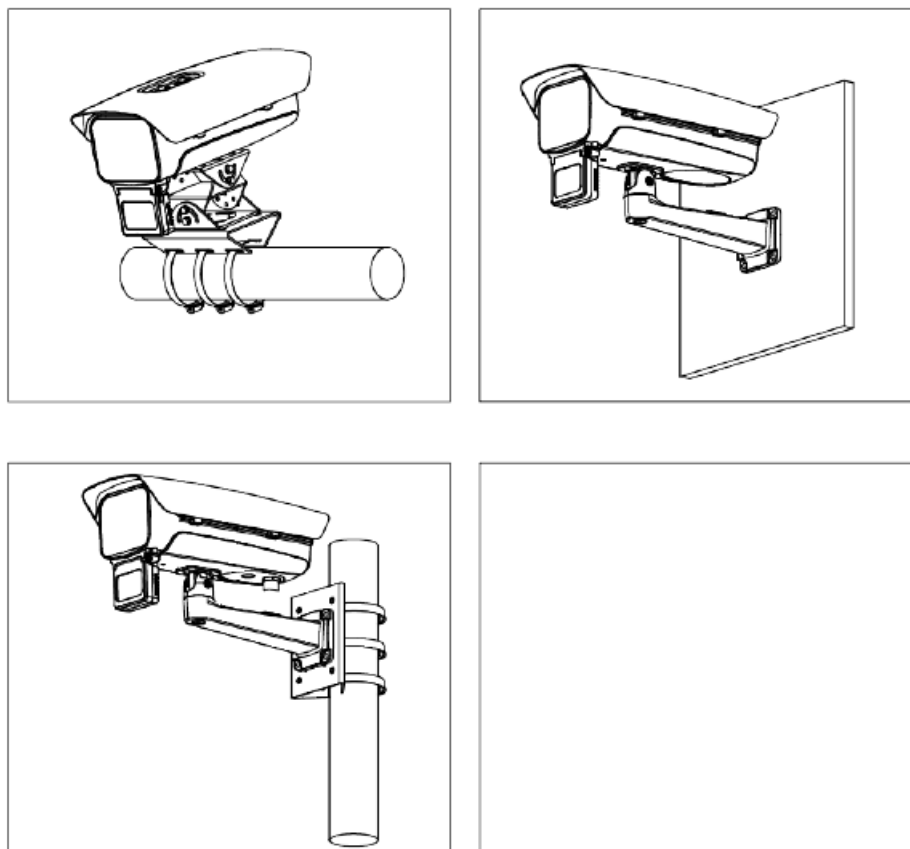Waterproof Connector × 1

Dimensions

Figure 3-2 Dimensions (Unit: mm [inch])

404.3 [15.92]   163.8 [6.45]   50.0 [1.97]
352.4 [13.87]   132.2 [5.2]   211.8 [8.34]   2-1/4-20 UNC-2Bx7.0

Installing Camera

Installation Method
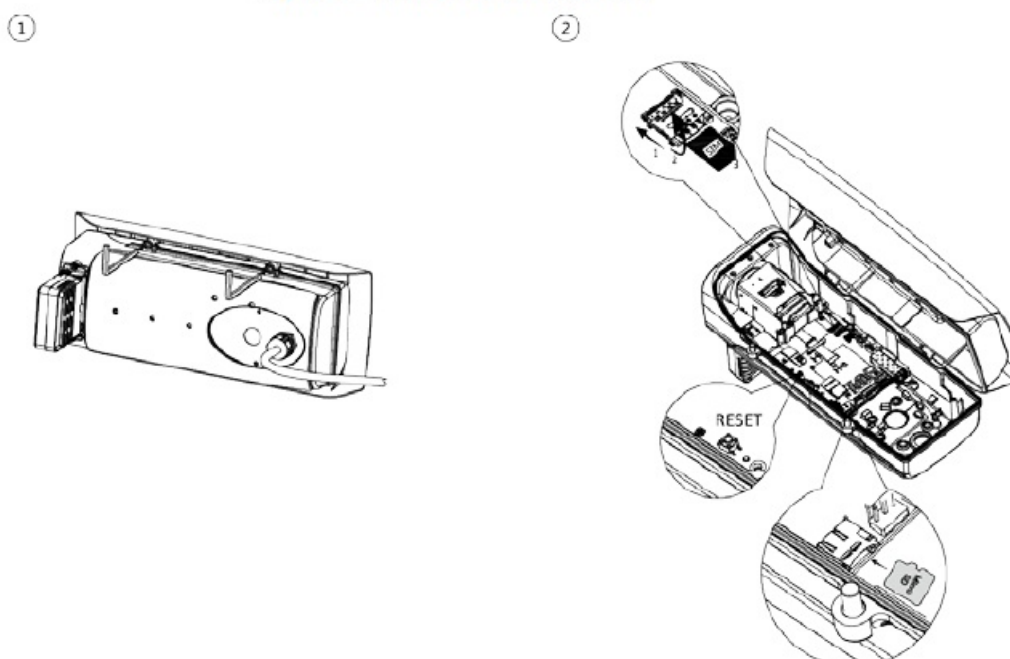
Figure 3-3 Installation method

Installing SD/SIM Card

- Disconnect the power before installing or removing the SD/SIM card.
- Micro SIM card size: 15 mm × 12 mm × 0.76 mm L × W × H).

  Press the reset button for 10 seconds to reset the device.
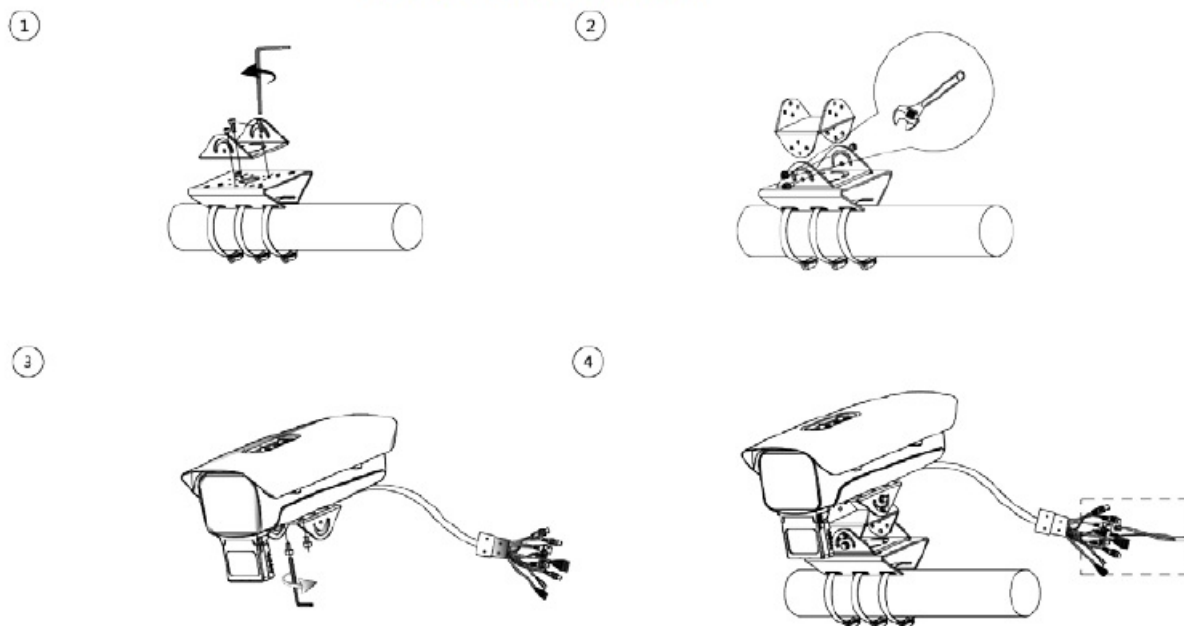
Figure 3-4 Install SD/SIM card

Attaching Camera

Make sure that the mounting surface is strong enough to hold at least three times of the weight of the device and
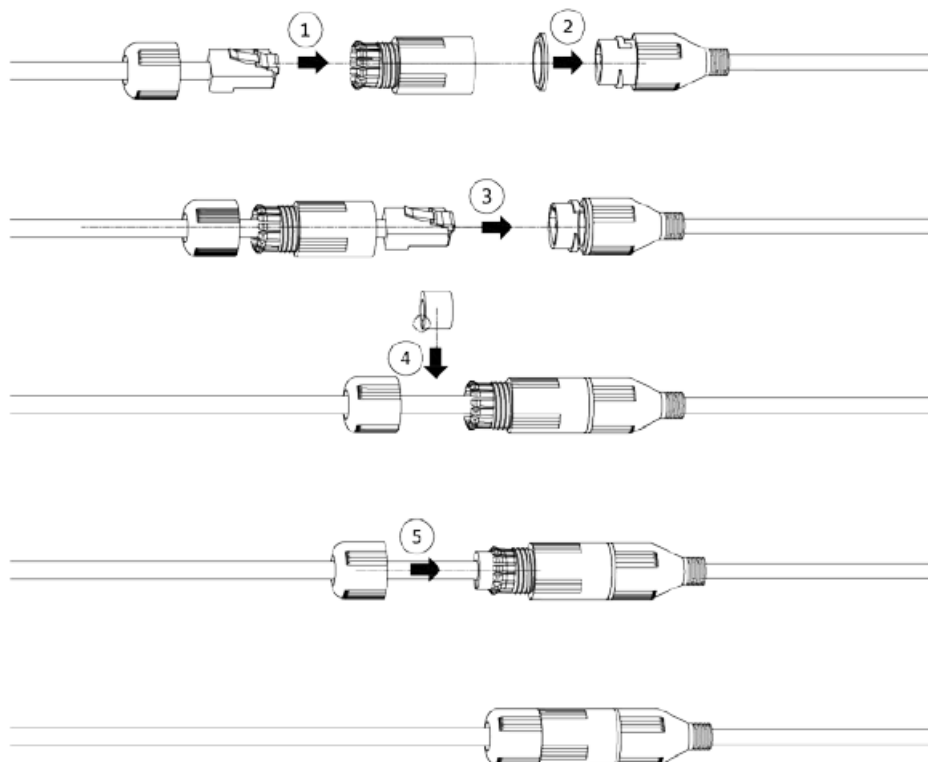
bracket.

Figure 3-5 Attach camera

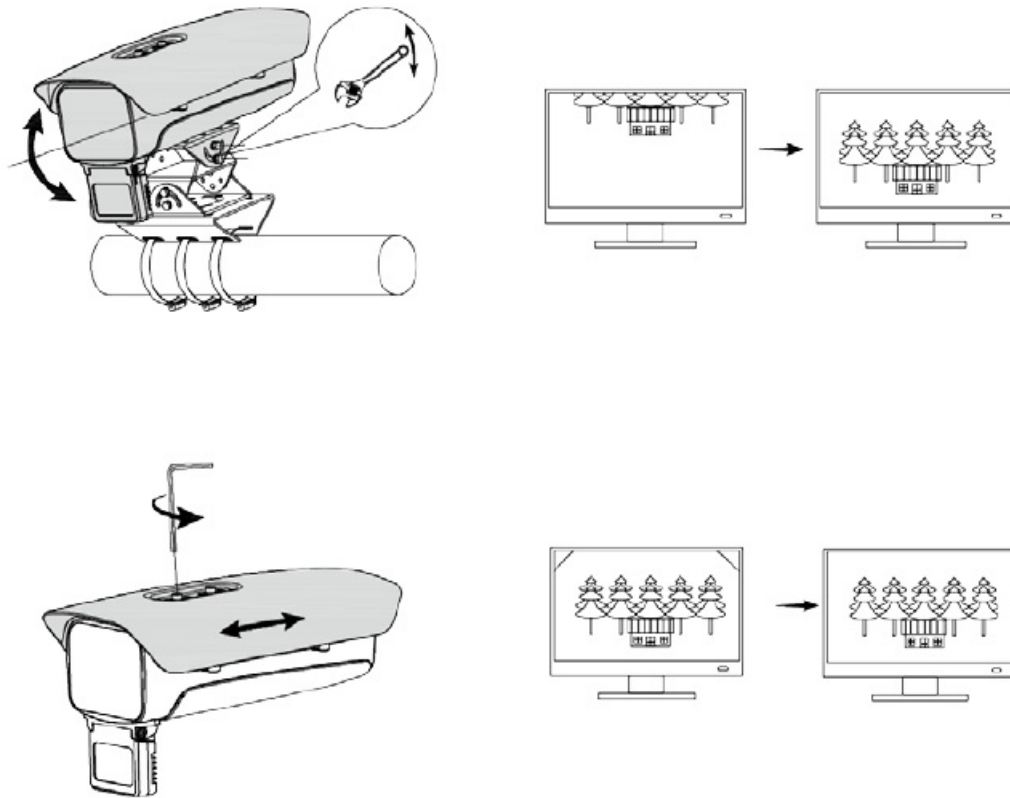**Installing a Waterproof Connector (Optional)**

This part is needed only when there is a waterproof connector in the package and the device is used outdoors.

Figure 3-6 Install waterproof connector

Adjusting Lens Angle

Figure 3-7 Adjust lens angle

Documents / Resources

dahua All-in-one Bullet Network Camera Quick Start Guide V1.0.0	[**dahua ctxtest02 All in one Bullet Network Camera**](#) [pdf] User Guide ctxtest02 All in one Bullet Network Camera, ctxtest02, All in one Bullet Network Camera, Bullet Network Camera, Network Camera, Camera