

Vandal Proof Dome Network Camera

Quick Start Guide



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V1.0.4



Foreword

General

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

Safety Instructions

The following signal words might appear in the manual.

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

Revision History

Version	Revision Content	Release Date
V1.0.4	Updated the information of Important Safeguards and Warnings.	October 2022
V1.0.3	Updated "Important Safeguards and Warnings."	April 2021
V1.0.2	Changed the pictures in "3.3.3 Attaching Device" and "3.3.5 Adjusting Angle."	April 2019
V1.0.1	Modified the alarm output type in "1.2 Connecting Alarm Input/output."	August 2018
V1.0.0	First release.	March 2018

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

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, comply with the guidelines when using it.

Transportation Requirements



- Transport the device under allowed humidity and temperature conditions.
- Pack the device with packaging provided by its manufacturer or packaging of the same quality before transporting it.
- Do not place heavy stress on the device, violently vibrate or immerse it in liquid during transportation.

Storage Requirements



- Store the device under allowed humidity and temperature conditions.
- Do not place the device in a humid, dusty, extremely hot or cold site that has strong electromagnetic radiation or unstable illumination.
- Do not place heavy stress on the device, violently vibrate or immerse it in liquid during storage.

Installation Requirements

- Strictly comply with the local electrical safety code and standards, and check whether the power supply is correct before operating the device.
- Please follow the electrical requirements to power the device.
 - When selecting the power adapter, the power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Please note that the power supply requirements are subject to the device label.
 - ♦ We recommend using the power adapter provided with the device.
- Do not connect the device to two or more kinds of power supplies, unless otherwise specified, to avoid damage to the device.
- The device must be installed in a location that only professionals can access, to avoid the risk of non-professionals becoming injured from accessing the area while the device is working. Professionals must have full knowledge of the safeguards and warnings of using the device.



• Do not place heavy stress on the device, violently vibrate or immerse it in liquid during installation.



- An emergency disconnect device must be installed during installation and wiring at a readily accessible location for emergency power cut-off.
- We recommend you use the device with a lightning protection device for stronger protection against lightning. For outdoor scenarios, strictly comply with the lightning protection regulations.
- Ground the function earthing portion 💮 of the device to improve its reliability (certain models are not equipped with earthing holes). The device is a class I electrical appliance. Make sure that the power supply of the device is connected to a power socket with protective earthing.
- The dome cover is an optical component. Do not directly touch or wipe the surface of the cover during installation.

Operation Requirements

- The cover must not be opened while the device is powered on.
- Do not touch the heat dissipation component of the device to avoid the risk of getting burnt.

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- Use the device under allowed humidity and temperature conditions.
- Do not aim the device at strong light sources (such as lamplight, and sunlight) when focusing it, to avoid reducing the lifespan of the CMOS sensor, and causing overbrightness and flickering.
- When using a laser beam device, avoid exposing the device surface to laser beam radiation.
- Prevent liquid from flowing into the device to avoid damage to its internal components.
- Protect indoor devices from rain and dampness to avoid electric shocks and fires breaking out.
- Do not block the ventilation opening near the device to avoid heat accumulation.
- Protect the line cord and wires from being walked on or squeezed particularly at plugs, power sockets, and the point where they exit from the device.
- Do not directly touch the photosensitive CMOS. Use an air blower to clean the dust or dirt on the lens.
- The dome cover is an optical component. Do not directly touch or wipe the surface of the cover when using it.
- There might be a risk of electrostatic discharge on the dome cover. Power off the device when installing the cover after the camera finishes adjustment. Do not directly touch the cover and make sure the cover is not exposed to other equipment or human bodies
- Strengthen the protection of the network, device data and personal information. All necessary safety measures to ensure the network security of the device must be taken, such as using strong passwords, regularly changing your password, updating firmware to the latest version, and isolating computer networks. For the IPC firmware of some previous versions, the ONVIF password will not be automatically synchronized after the main password of the system has been changed. You need to update the firmware or change the password manually.



Maintenance Requirements

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- Strictly follow the instructions to disassemble the device. Non-professionals dismantling the device can result in it leaking water or producing poor quality images. For a device that is required to be disassembled before use, make sure the seal ring is flat and in the seal groove when putting the cover back on. When you find condensed water forming on the lens or the desiccant becomes green after you disassembled the device, contact after-sales service to replace the desiccant. Desiccants might not be provided depending on the actual model.
- Use the accessories suggested by the manufacturer. Installation and maintenance must be performed by qualified professionals.
- Do not directly touch the photosensitive CMOS. Use an air blower to clean the dust or dirt on the lens. When it is necessary to clean the device, slightly wet a soft cloth with alcohol, and gently wipe away the dirt.
- Clean the device body with a soft dry cloth. If there are any stubborn stains, clean them away with a soft cloth dipped in a neutral detergent, and then wipe the surface dry. Do not use volatile solvents such as ethyl alcohol, benzene, diluent, or abrasive detergents on the device to avoid damaging the coating and degrading the performance of the device.
- The dome cover is an optical component. When it is contaminated with dust, grease, or fingerprints, use degreasing cotton moistened with a little ether or a clean soft cloth dipped in water to gently wipe it clean. An air gun is useful for blowing dust away.
- It is normal for a camera made of stainless steel to develop rust on its surface after being used in
 a strong corrosive environment (such as the seaside, and chemical plants). Use an abrasive soft
 cloth moistened with a little acid solution (vinegar is recommended) to gently wipe it away.
 Afterwards, wipe it dry.



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1 Introduction

1.1 Cable

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Waterproof all the cable joints with insulating tape and waterproof tape to avoid water damage and prevent short circuits from occurring. For details, see FAQ manual.

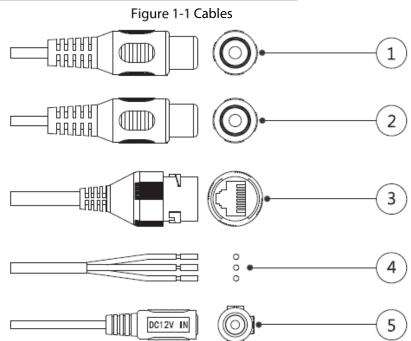


Table 1-1 Cable information

No.	Name	Description
1	Audio input	Connects to sound-pick-up device to receive audio signal.
2	Audio output	Connects to speaker to output audio signal.
3	Ethernet port	 Connects to network with network cable. Provides power to the device with PoE. PoE is available on select model.
4	Alarm I/O	Includes alarm signal input and output ports, the number of I/O ports might vary on different devices. For detailed information, see "Table 1-2 Alarm information".



No.	Name	Description
5	12 VDC power input	Inputs 12 VDC power. Please be sure to supply power as instructed in the Guide. Impute a contract of the Guide.

Table 1-2 Alarm information

Port	Port Name	Description
Alarm I/O	ALARM_OUT	Outputs alarm signal to alarm device.
	ALARM_IN	Receives the switch signal of external alarm source.
	ALARM_GND	Ground connection.

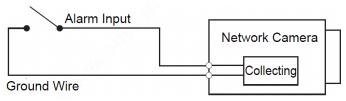
1.2 Connecting Alarm Input/output



Alarm input/output is available on select models.

- <u>Step 1</u> Connect alarm input device to the alarm input end of the I/O port, see Figure 1-2. 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 connecting to +3 V to +5 V or idling.
 - Device collects logic "0" when input signal is grounded.

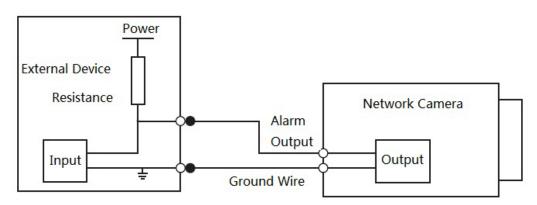
Figure 1-2 Alarm input



- <u>Step 2</u> Connect alarm output device to the alarm output end of the I/O port. The alarm output is the open-collector output.
 - Alarm output: alarm output is OD door, it needs to add pull-up resistor externally (Typical value 10 KΩ) to make it work normally. The output signal is high level by default (external pull-up voltage) after adding external pull-up resistor; the output signal becomes low level when there is alarm output.
 - The operating current of alarm output port is recommended to be less than 10 mA. The max current which is used to drive external circuit is 80 mA, it is recommended to add relay externally when it is beyond the value.



Figure 1-3 Alarm output



<u>Step 3</u> Log in webpage, and then configure alarm input and alarm output in alarm setting.

- The alarm input in the webpage is corresponding to the alarm input end of the I/O port. There will be high level and low level alarm signal generated by the alarm input device when 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 in the webpage is corresponding to the alarm output end of the device, which is also alarm output end of the I/O port.



2 Network Configuration

Device initialization and IP setting can be finished with the ConfigTool or on webpage. For more information, see the Web Operation Manual.

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- Device initialization is available on select models, and it is required at first use and after device is being 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.
- Carefully plan the network segment for the device.
- The following figures and pages are for reference only.

2.1 Initializing the Camera

- <u>Step 1</u> Search for the device that needs to be initialized through ConfigTool.
 - 1) Double-click **ConfigTool.exe** to open the tool.
 - 2) Click **Modify IP**.
 - 3) Select the searching way, and then click **OK**.
 - 4) Select one or several cameras in uninitialized status, and then click **Initialize**.
- <u>Step 2</u> Select the devices to be initialized, and then click **Initialize**.

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If you do not provide the email address for password reset, you can reset the password only through XML file.

Figure 2-1 Password setting

Device initialization	×
1	device(s) have not been initialized
Username	admin
New Password	Weak Medium Strong
Confirm Password	Use a password that has 8 to 32 characters, it can be a combination of letter(s), number(s) and symbol(s) with at least two kinds of them. (excluding Single quote('), double quote(''), colon(:), semicolon(;), connection symbol(&))
Email Address Select P/N	1****6@gmail.com (for password reset) PAL
*After you have set new	password, please set password again in "Search Setting". Next



- <u>Step 3</u> Select **Auto-check for updates** as needed, and then click **OK** to initialize the device. If initialization failed, click **A** to see more information.
- Step 4 Click Finish.

2.2 Changing Device IP Address

- You can change IP address of one or multiple devices in one time. This section is based on changing IP addresses in batch.
- Changing IP addresses in batch is available only when the corresponding devices have the same login password.
- <u>Step 1</u> Search for the device whose IP address needs to be changed through ConfigTool.
 - 1) Double-click ConfigTool.exe to open the tool.
 - 2) Click **Modify IP**.
 - 3) Select the searching way, enter the username and password, and then click **OK**.

The username is **admin**, and the password is the one you set while initializing the device.

- <u>Step 2</u> Select the devices whose IP addresses need to be changed, and then click **Modify IP**.
- Step 3 Configure IP address.
 - Static mode: When you select Static, you need to enter Start IP, Subnet Mask, and Gateway. The IP addresses of the devices will be modified successively starting from the first IP entered.
 - **DHCP** mode: If the DHCP server is available in the network, when you select **DHCP**, the IP address of devices will be automatically obtained through the DHCP server.
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The same IP address will be set for multiple devices if you select the **Same IP** checkbox.

Step 4 Click OK.

2.3 Logging in to Webpage

<u>Step 1</u> Open the IE browser, enter the IP address of the device in the address bar, and then press the Enter key.

If the setup wizard opens, follow the on-screen instructions to complete it.

- <u>Step 2</u> Enter the username and password in the login box, and then click **Login**.
- <u>Step 3</u> (Optional) For first-time login, click **Click Here to Download Plugin**, and then install the plugin as instructed.

The home page opens when installation is complete.

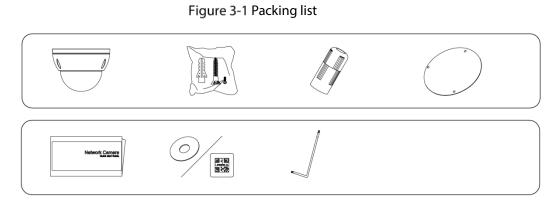


3 Installation

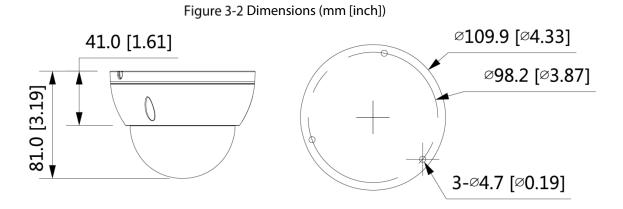
3.1 Packing List

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- Tools required for installation, such as the electric drill, are not included in the package.
- The operation manual and information on the tools are on the disk or the QR code.



3.2 Dimensions





3.3 Installing the Camera

3.3.1 Installation Methods

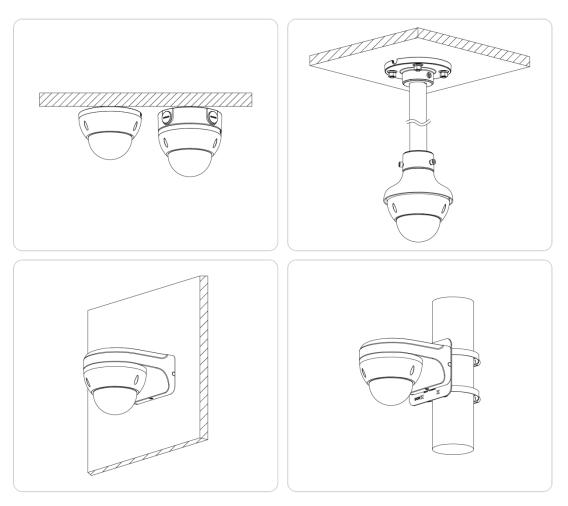


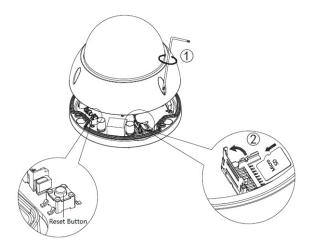
Figure 3-3 Installation methods

3.3.2 (Optional) Installing SD Card

SD card slot is available on select models. Disconnect the power from the device before installing the SD card.



Figure 3-4 Install SD card



Pressing reset button:

- Short press reset button for 1-2 s, press WPS button on the router and the device can be connected to corresponding router within 1 minute (only supported by some models).
- Press the reset button for 10 seconds to reset the device.

3.3.3 Attaching Device

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Make sure the mounting surface is strong enough to hold at least three times of the device weight. Figure 3-5 Cable going through the mounting surface

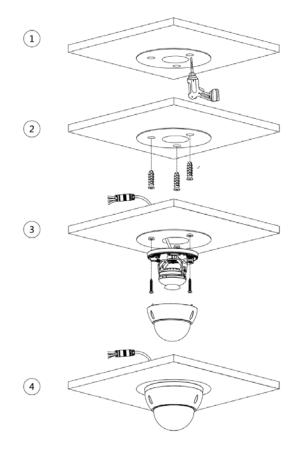
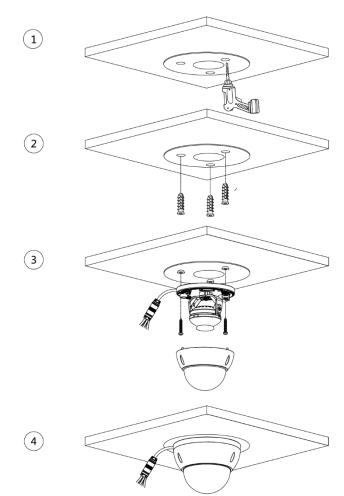




Figure 3-6 Cable going through the side cable tray

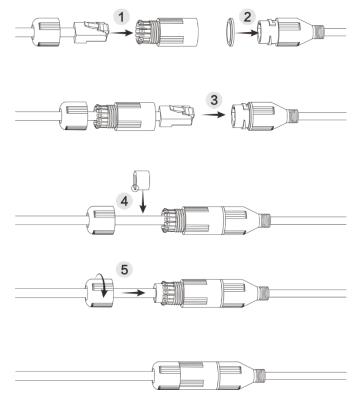


3.3.4 (Optional) Installing Waterproof Connector

This part is only needed when a waterproof connector comes with the device and the device is used outdoor.



Figure 3-7 Install the waterproof connector

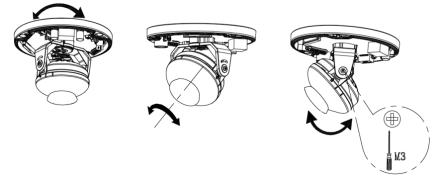


3.3.5 Adjusting Angle

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- Vertical rotation ring is available on select models, which fails to support image rotation. Please refer to the real model for more details.
- IR light layout is different according to different models; please refer to the real model for more details.
- Please be aware of image rotation direction when it turns to 64° vertically, which is to avoid IR light being blocked by enclosure and causing bad IR effect.

Figure 3-8 Adjust angle



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