dahua K Series Network Camera User Guide

K Series Network Camera
User Guide

General

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

Safety Instructions

The following categorized signal words with defined meanings 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 the emphasis and supplement to the text.

Contents

About the Manual

- The manual is for reference only. If there is an inconsistency between the manual and the actual product, the actual product shall prevail.

- We are not liable for any loss caused by the operations that do not comply with the manual.

- The manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper manual, CD-ROM, QR code or our official website. If there is an inconsistency between the paper manual and the electronic version, the electronic version shall prevail.

- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.

- There still might be deviations in technical data, functions, and operations description, or errors in print. If there is any doubt or dispute, please refer to our 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, and contact the supplier or customer service if there is any problem occurred when using the device.

- If there is any uncertainty or controversy, please refer to our final explanation.

Important Safeguards and Warnings

Electrical Safety

- All installation and operation shall conform to your local electrical safety codes.
  The power source shall conform to the Safety Extra Low Voltage (SELV) standard, and supply power with a rated voltage that conforms to the Limited power Source requirement according to IEC60950-1. Note that the power supply requirement is subject to the device label.
  Make sure that the power supply is correct before operating the device.

- A readily accessible disconnecting device shall be incorporated in the building installation wiring.

- Prevent the power cable from being trampled or pressed, especially the plug, power socket and junction extruded from the device.

Environment

- Do not aim the device at strong light to focus, such as lamp light and sunlight; 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, dusty extremely hot or cold environment, or 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 dampness to avoid fire or
- 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 a location where only professional staff with relevant knowledge of safety guards and warnings can access it.
  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 performing any disassembly operation on the device; otherwise, it might cause water leakage or poor image quality due to unprofessional disassembly. Please contact after-sale 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).
- It is recommended to use the device together with the lightning arrester to improve the lightning protection effect.
- It is recommended to ground the device to enhance reliability.
- Do not touch the image sensor (CMOS) directly. Dust and dirt could be removed with an air blower, or you can wipe the lens gently with a soft cloth that is moistened with alcohol.
- You can clean the device body with a soft dry cloth, and for stubborn stains, use the cloth with mild detergent. To avoid possible damage to the device body coating which could cause a performance decrease, do not use volatile solvents such as alcohol, benzene, diluent, and so on to clean the device body, nor can strong, abrasive detergent be used.
- The 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 moisten the soft cloth. You can also remove dust with an air blower.

⚠️**WARNING**

- Strengthen the protection of network, device data, and personal information by adopting measures that include but are not limited to using strong passwords, modifying passwords regularly, upgrading the firmware to the latest version, and isolating computer networks. For some devices 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 the manufacturer and make sure that 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.

Packing List

- The tool required for the installation such as an electric drill is not provided in the packing.
- The operation manual and related tools are contained in the disk or the QR code, and the actual packing shall prevail.

Figure 1-1 Packing list

QSG ×1

Positioning Map ×1

Power Adapter ×1

Camera ×1

Screw Package×1

Camera Introduction

For the introduction of the device, see Figure 2-1, Figure 2-2 and Figure 2-3.

Figure 2-1   Front size

LED
Indicator Light

Built-in Mic

IR
IR LED

PIR Detector

Ethernet Port

Digital Input/Output

Power Port

Reset Button

Built-in Speaker

Figure 2-3   SD card slot

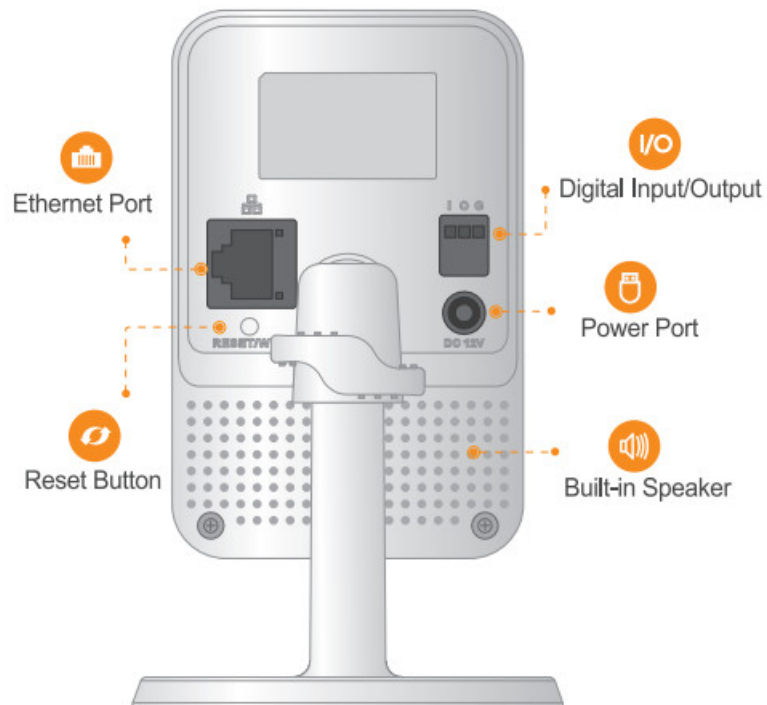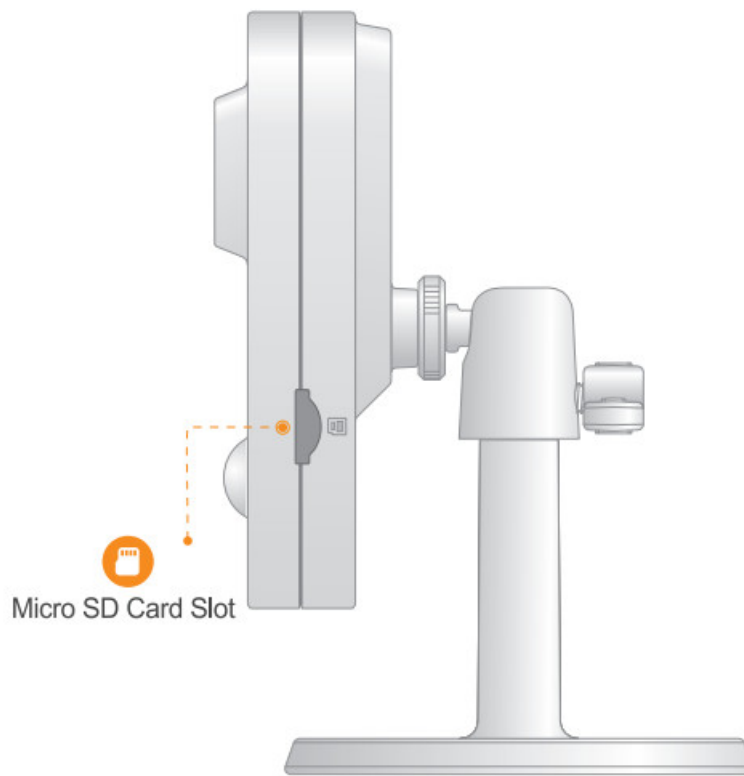Micro SD Card Slot

Press and hold the reset button for 10 s to reset the device. The pattern of the LED indicator is included in Table 2-1.

Table 2-1 LED indicator pattern

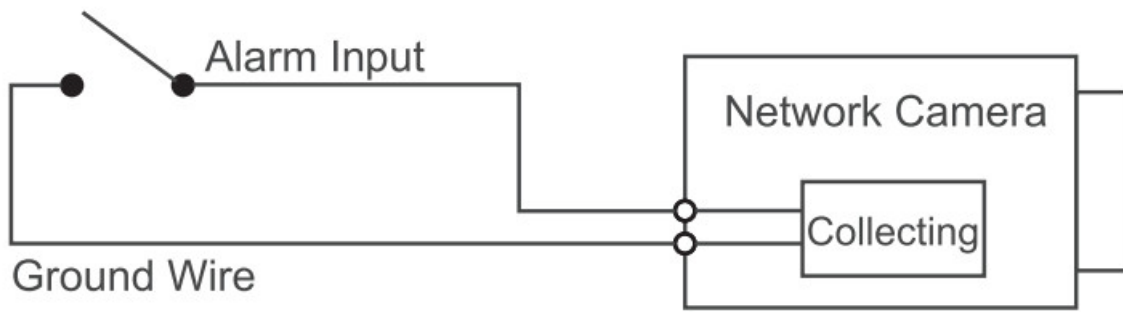| LED Indicator Status	Device Status
Off	• Powered off/LED turned off • Rebooting after reset
Red light on	• Booting • Device malfunction
Green light flashing	Waiting for network
Green light on	Operating properly
Red light flashing	Network connection failed
Green and red light flashing alternately	Firmware updating

Connecting Alarm Input/Output

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

Alarm input/output is available on select models.

Step 1 Connect alarm input device to the alarm input end of the I/O port. See Figure 4-1. 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 +3V to +5V or idling.

- Device collects logic "0" when input signal is grounded. Figure 4-1 Alarm input

Step 2 Connect alarm output device to the alarm output end of the I/ 0 port. The alarm output is open-drain output, which works in the following modes.

- Mode A: Level application. Alarm outputs high and low level, and the alarm outlet is OD, which requires external pull-up resistance (10K Ohm typical) to work. The maximum external pull-up level is 12V, maximum port current is 300mA and the default output signal is high level (external pull-up voltage). The default output signal switches to low level when there is alarm output (As long as the operating current below 300mA, the output low level voltage is lower than 0.8V).
- Mode **B:** Switch application. Alarm output is used to drive external circuit, the maximum voltage is 12V and the maximum current is 300mA. If the voltage is higher than 12V, please use an additional electric relay.
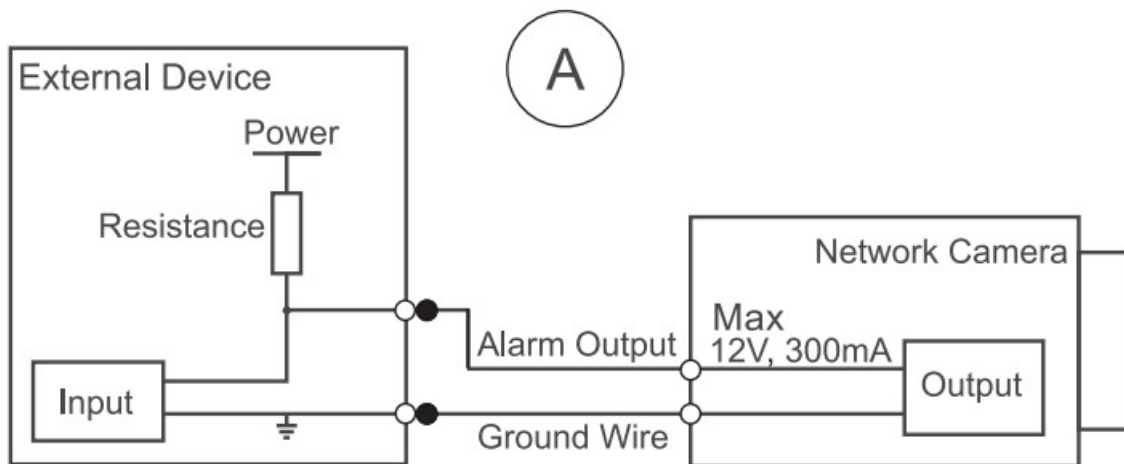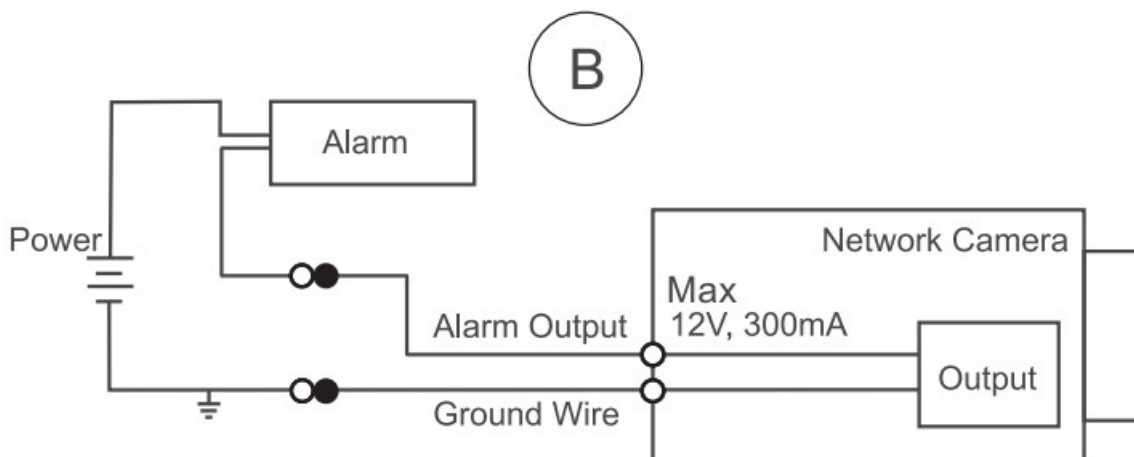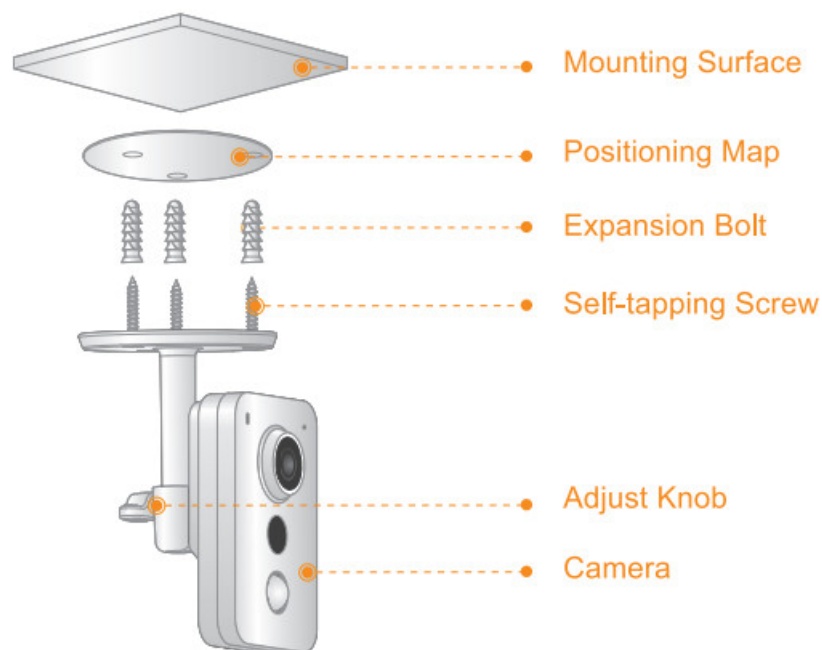

Figure 4-3   Mode B

Step 3 Log in to web interface, and configure alarm input and alarm output in alarm setting.

- The alarm input on the web interface 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 on the web interface is corresponding to the alarm output end of the device, which is also alarm output end of the 110 port.

Installing Camera

Make sure that the mounting surface is smooth and strong enough to hold at least three times of the device weight. For the installation diagram and item list of the camera, see Figure 5-1.

Figure 5-1   Installation diagram

Step 1 Drill screw holes on the mounting surface as the positioning map shows, and then put in the expansion bolts.
Step 2 Attach the mounting plate to the mounting surface with the self-tapping screws.
Step 3 Connect the cable and start the camera.
Step 4 Loosen the adjust knob and adjust the camera to a proper surveillance position as needed.
Step 5 Secure the adjust knob to fix the camera

FAQ

Q: How to reset the camera to factory default?

– Press the reset button for 10 s, then the camera will restore to factory default and reboot automatically.

Q: The device cannot start?

– Check the LED indicator status. If it is not green light on, reset the camera and configure the camera again.

Q: What is the Wi-Fi password of the camera's Wi-Fi signal?

– The password is the safety code on the device label.

Q: The device is offline? Check the indicator status:

– If the green light is on, check whether the router can connect to the Internet. If Internet is working, restart the camera.
– If the red light flashes, reset the camera, and then configure the camera again.
– If the red light is on, it means the camera is faulty.

Q: How to connect the camera to a new Wi-Fi?

– If camera is online, select **Device > Network Config** to change the Wi-Fi connection.
– If camera is offline, reset the camera, and then configure the camera again.

Important Safeguards and Warnings
This Chapter describes the contents covering proper handling of the device, hazard prevention, and prevention of property damage. Read these contents carefully before using the device, comply with them when using, and keep it well for future reference.

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

Signal Words	Meaning
⚠ DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
⚠ CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
🔑 TIPS	Provides methods to help you solve a problem or save you time.
ℹ NOTE	Provides additional information as the emphasis and supplement to the text.

Safety Requirement

- Abide by local electrical safety standards to ensure that the voltage is stable and complies with the power supply requirement of the device.
- Transport, use, and store the device under the allowed humidity and temperature conditions. Refer to the corresponding technical specifications of device for specific working temperature and humidity.
- Do not place the device in a location exposed to dampness, dust, extreme hot or cold, strong electronic

radiation, or unstable lighting condtions.

- Do not install the device in a place near the heat source, such as radiator, heater, furnace, or other heat generating device to avoid fire.
- Prevent liquid from flowing into the device to avoid damge to internal components.
- Install the device horizontally or install on the stable place to pre vent it from falling.
- Install the device in a well-ventilated place, and do not block the ventilation of the device.
- Do not disassemble the device arbitrarily.
- Avoid heavy stress, violent vibration, and soaking during during transportation, storage, and Complete package is necessary during the transportation.
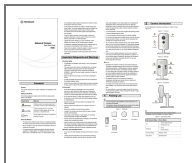- Use the factory package or the equivalent for transportation.

Battery

Low battery power affects the operation of the RTC, causing it to reset at every power-up. When the battery needs replacing, a log message will appear in the product's server report. For more information about the server report, see the product's setup pages or contact Prosegur support.

⚠️**WARNING**

- Risk of explosion if the battery is incorrectly replaced.
- Replace only with an identical battery or a battery which is recommended by lmou.
- Dispose of used batteries according to local regulations or the battery manufacturer's

Documents / Resources

	dahua K Series Network Camera [pdf] User Guide 1002, 2A7WV-1002, 2A7WV1002, Network Camera, K Series Network Camera, K Series, Camera

References

- *a¹* **Notices - Dahua Technology USA Inc**