



Network Box Camera

Quick Start Guide

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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 of this Manual at the Hikvision website (<http://www.hikvision.com/>).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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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	 Cautions
Warnings Follow these safeguards to prevent serious injury or death.	Cautions Follow these precautions to prevent potential 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.
- The power source should meet limited power source or PS2 requirements according to IEC 60950-1 or IEC 62368-1 standard. Refer to the appropriate documentation 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

- CAUTION: Hot parts! Burned fingers when handling the parts.



Wait one-half hour after switching off before handling parts. This sticker is to indicate that the marked item can be hot and should not be touched without taking care. For device with this sticker, this device is intended for installation in a restricted access location, access can only be gained by service persons or by users who have been instructed about the reasons for the restrictions

applied to the location and about any precautions that shall be taken.

- 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 $-30\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$ ($-22\text{ }^{\circ}\text{F}$ to $140\text{ }^{\circ}\text{F}$), $-H$: $-40\text{ }^{\circ}\text{C}$ to $65\text{ }^{\circ}\text{C}$ ($-40\text{ }^{\circ}\text{F}$ to $149\text{ }^{\circ}\text{F}$)), 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.
- This equipment is not suitable for use in locations where children are likely to be present.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions

ATTENTION: IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE BATTERIE DE TYPE INCORRECT. METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS

- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.

- 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

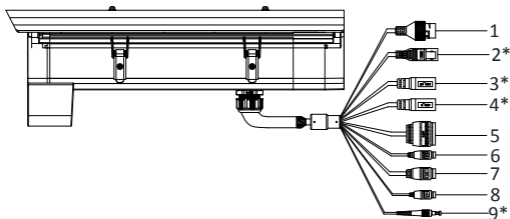


Figure 1-1 Overview

Table 1-1 Description

No.	Description	No.	Description
1	Network Interface	2*	CVBS Interface
3*	Audio Input Interface	4*	Audio Output Interface
5	Alarm Interface	6	RS-485 Interface
7	Power Input Interface	8	Power Output Interface
9*	Fiber Interface		

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 PoE or 24 VDC or 24 VAC, 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:

- 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.

2.1 Wall Mounting

Before you start:

The shown bracket is not included in package. You need to prepare suitable brackets in advance if you adopt this mounting style.

Steps:

1. Open the cover.

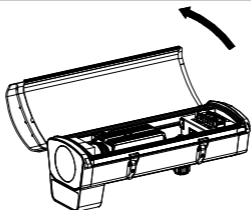


Figure 2-1 Open the Cover

2. Take out the foam and check the lens. Tighten the lens if it is loose.

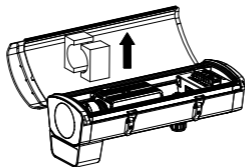


Figure 2-2 Take out the Foam

3. Lock the cover.

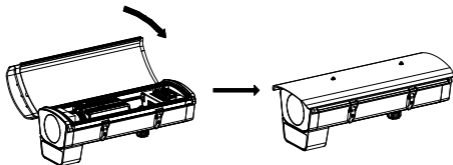


Figure 2-3 Lock the Cover

4. Separate the pedestal from the wall mount.

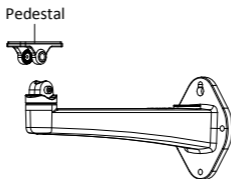


Figure 2-4 Separate Pedestal

5. Fix the pedestal to housing.

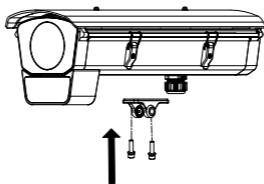


Figure 2-5 Fix Pedestal to Housing

6. Install the wall mount to wall.

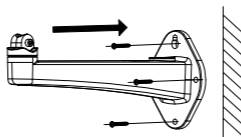


Figure 2-6 Install Wall Mount

7. Install the pedestal together with the housing (with camera) back to wall mount.

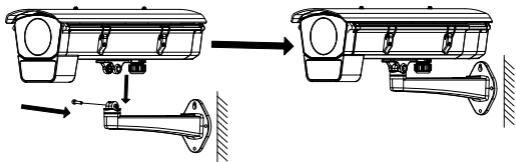


Figure 2-7 Install Housing (with Camera) to Wall Mount

8. Adjust the surveillance angle.
- 1). Loosen the No.1 adjusting screw to adjust the pan position.
 - 2). Tighten the No.1 adjusting screw.
 - 3). Loosen the No.2 adjusting screw to adjust the tilt position.
 - 4). Tighten the No.2 adjusting screw.

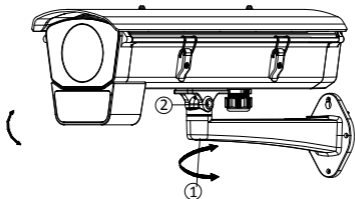


Figure 2-8 Adjust Surveillance Angle

9. Adjust zoom and focus. Refer to Section 2.4.

2.2 Horizontal Pole Mounting

Before you start:

The shown bracket is not included in package. You need to prepare suitable brackets in advance if you adopt this mounting style.

Steps:

1. Repeat steps 1 to 3 of 2.1 *Wall Mounting* to take out the foam.
2. Separate the cardan joint.

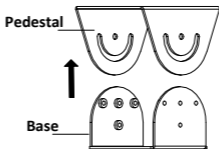


Figure 2-9 Separate Cardan Joint

3. Fixed the pedestal to housing.

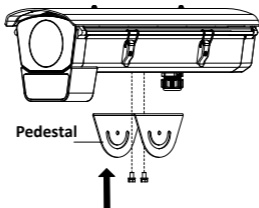


Figure 2-10 Fixed the Pedestal to Housing

4. Install the horizontal pole mount to pole.

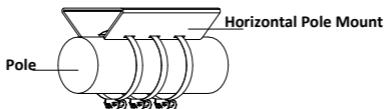


Figure 2-11 Install Horizontal Pole Mount to Pole

5. Fixed the base to hoop.

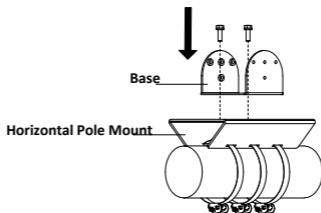


Figure 2-12 Fixed the Base to Hoop

6. Install the pedestal together with the housing (with camera) back to the base.

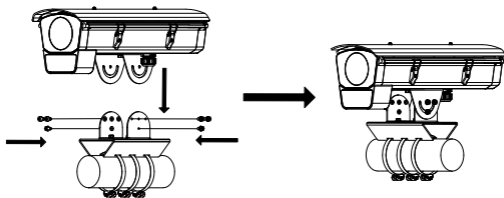


Figure 2-13 Install Housing (with Camera) to Pole Mount

7. Adjust the surveillance angle.

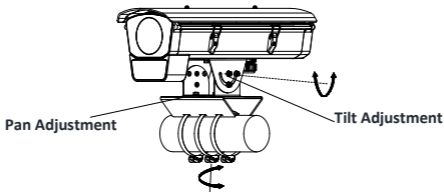


Figure 2-14 Adjust Surveillance Angle

8. Adjust zoom and focus. Refer to Section 2.4.

2.3 Vertical Pole Mounting

Before you start:

The shown bracket is not included in package. You need to prepare suitable brackets in advance if you adopt this mounting style.

Steps:

1. Repeat steps 1 to 5 of 2.1 *Wall Mounting* to fix the pedestal to housing.
2. Install the vertical pole mount to pole.

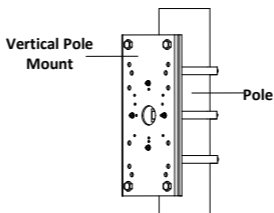


Figure 2-15 Install Vertical Pole Mount to Pole

3. Fixed the wall mount to vertical pole mount.

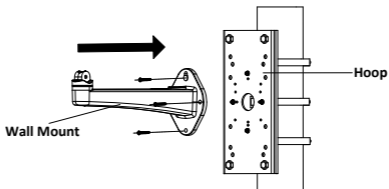


Figure 2-16 Fixed the Wall Mount to Vertical Pole Mount

4. Install the pedestal together with the housing (with camera) back to wall mount.

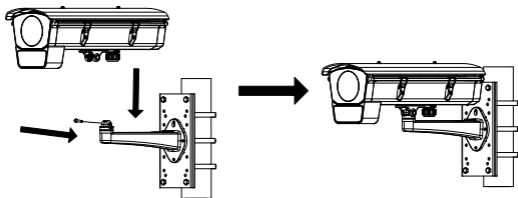


Figure 2-17 Install Housing (with Camera) to Wall Mount

5. Adjust the surveillance angle.

- 1). Loosen the No.1 adjusting screw to adjust the pan position.
- 2). Tighten the No.1 adjusting screw.
- 3). Loosen the No.2 adjusting screw to adjust the tilt position.
- 4). Tighten the No.2 adjusting screw.

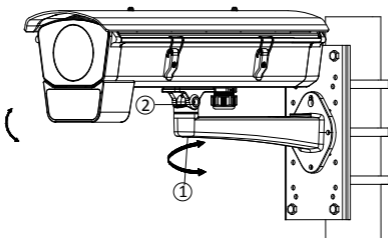


Figure 2-18 Adjust Surveillance Angle

6. Adjust zoom and focus. Refer to Section 2.4.

2.4 Zoom and Focus Adjustment

Steps:

1. Power on the camera.
2. Connect the video out interface of the camera to the installation display device.
3. Adjust zoom and focus.
 - For certain camera models, zoom and focus must be manually adjusted via zoom/focus lever according to the image on the display device.

Note:

For the camera equipped with the auto iris, it is suggested you change the iris mode to manual from the camera menu (accessed via web browser), and re-change it back to auto iris after you adjust the focus by the focus lever.

- For camera equipped with a motor-driven lens, adjust the zoom and focus on PTZ control panel by visiting the camera via web browser or client software.
4. (Optional) For the camera supports ABF, you can adjust the focus manually, or click the ABF button on the rear panel of the camera to adjust the focus automatically.

2.5 Waterproof Measures

If the camera is installed outdoor, you should use the waterproof accessory or tapes to waterproof the cables. Otherwise the cables might get wet or a short circuit occurs.

2.5.1 Install Network Cable Waterproof Jacket

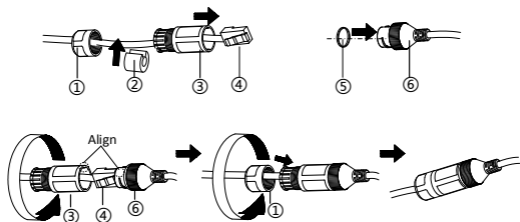


Figure 2-19 Install Waterproof Jacket

Steps:

1. Feed the network cable through ① and ③ in order.
2. Fix ② on the network cable between ① and ③.
3. Place ⑤ onto the end of ⑥, and plug the RJ45 male connector into RJ45 female connector.
4. Screw ③ to ⑥ clockwise.
5. Push ② into ③.
6. Secure ① with the ③ in clockwise direction.

2.5.2 Waterproof Other Cables

After routing and connecting the cables, use the waterproof tapes to wrap up the cables. Connected cables and spare cables both should be wrapped up as the figures below.

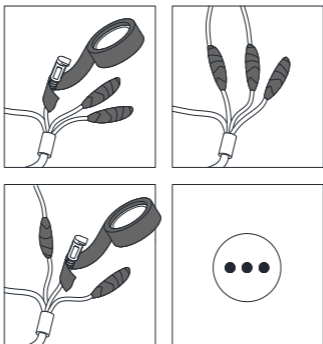


Figure 2-20 Waterproof Cables

3 Activate and Access Network Camera

Scan the QR code to get *Activate and Visit Network Camera*. Note that mobile data charges may apply if Wi-Fi is unavailable.



