



Network Box Camera

Quick Start Guide

UD10854B-A

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.
- 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 $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$, or $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$ if the camera model has an “H” in its suffix), 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

There are two types of the box camera and they have the same overview and different interfaces on the rear panel. The overview and the interfaces on the rear panels are shown below:

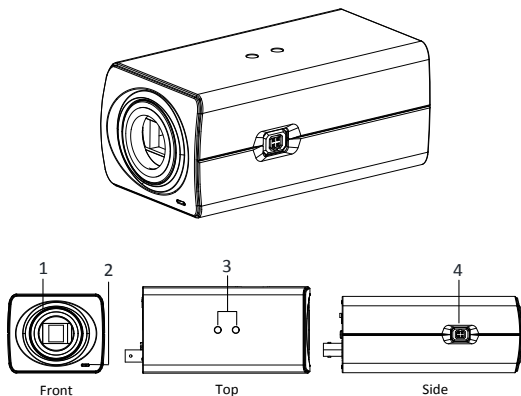


Figure 1-1 Overview

Type I:

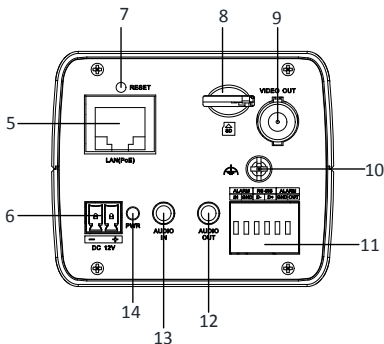


Figure 1-2 Interfaces on the Rear Panel

Type II:

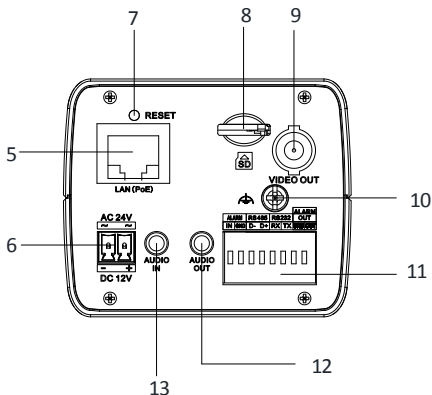


Figure 1-1 Interfaces on the Rear Panel

Table 1-1 Description

No.	Description	No.	Description
1	Lens Mount	2	MIC
3	¼-20 UNC Screw Hole	4	Auto-iris Interface
5	LAN (PoE)	6	Power Supply Interface
7	Reset	8	microSD Card Slot

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No.	Description	No.	Description
9	Video Out	10	Grounding
11	Alarm In/Alarm Out/ RS-485	12	Audio Out
13	Audio In	14	Power Indicator

Notes:

- To reset the camera default parameters, you need to press and hold the RESET button and power on the camera. After the power on of the camera, you must still press and hold the Reset button for about 20 seconds.
- The auto-iris interface is shown as below figure:

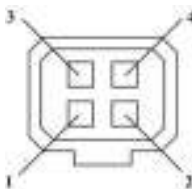


Figure 1-4 Auto-iris Interface

Table 1-7 Pins

No.	DC-driven
1	Damp-
2	Damp+
3	Drive+
4	Drive-

Power, Video and GND pins are used when the auto-iris is driven by video; Damp+, Damp-, Drive+ and Drive- pins are used when the auto-iris is driven by DC.

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 12VDC or 24VAC, 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:

- 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 microSD Card Installation

Type I and type II both support the microSD card installation and the installation steps are similar. Here take the steps of the type I for an example.

Steps:

1. Insert the microSD card to the microSD card slot to get it installed.

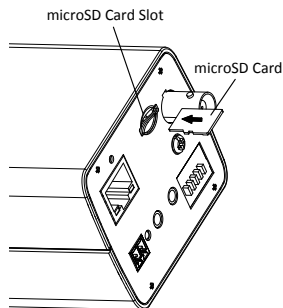


Figure 2-1 Installing the microSD Card

2. (Optional) Push the inserted microSD card slightly to get it sprung by its built-in springing to remove it.

2.2 Lens Installation

The lens installation steps of the type I and type II are similar. Here take the steps of the type I for an example.

1. Fit the lens (not supplied) to the camera and rotate it clockwise to get it tightened.
2. Plug the auto-iris cable to the auto-iris interface.

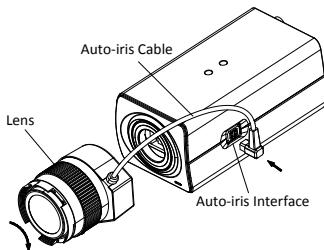


Figure 2-2 Installing the Lens

2.3 Ceiling Mounting

Type I and type II both support the ceiling mounting and the installation steps are similar. Here take the steps of the type I for an example.

Steps:

1. Install the ceiling mounting bracket to the ceiling with supplied screws.

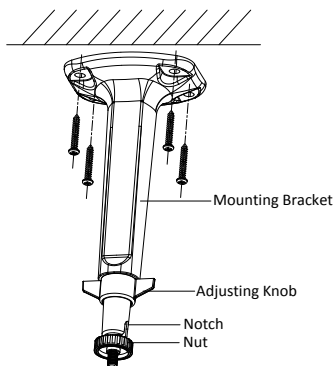


Figure 2-1 Installing the Mounting Bracket

Note:

Insert the expansion screws first if the camera is mounted to a cement ceiling. And you can use the self-tapping screws directly if camera is mounted to a wooden ceiling.

2. Align the ¼-20 UNC Screw Hole on the camera with the mounting bracket and rotate the camera to get it fixed.
3. Adjust the surveillance angle.
 - 1). Loosen the adjusting knob.
 - 2). Rotate the notch to face or be back to your surveillance scene according to your actual need.

Note:

To obtain larger angel adjustment range, place the notch back to the surveillance scene if your camera monitors downwards, and place the notch facing the surveillance scene if your camera monitors upwards.

- 3). Adjust the panning position from 0° to 360°.
- 4). Adjust tilting position from 0° to 90°.
- 5). Tighten the adjusting knob.

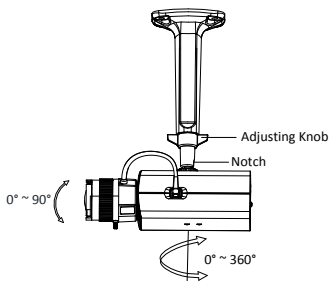


Figure 2-4 Adjusting the Surveillance Angle

4. Adjust the Lens.

- 1). Connect the VIDEO OUT interface of the camera to the debugging monitor.
- 2). Adjust the Zoom Lever and Focus Lever to obtain a perfect image on the monitor.

Notes:

- Do not remove the lens cap until you finish the installation to avoid the scrape and dust during the installation and wiring.
- 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.

2.4 Wall Mounting

Type I and type II both support the wall mounting and the installation steps are similar. Here take the steps of the type I for an example.

Steps:

1. Fix the wall mounting bracket to the wall with the screws.

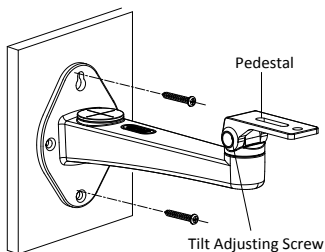


Figure 2-5 Installing the Mounting Bracket

Note:

Insert the expansion screws first if the camera is mounted to a cement wall. And you can use the self-tapping screws directly if camera is mounted to a wooden wall.

2. Align the camera to the pedestal, and fix the camera with the supplied screws.

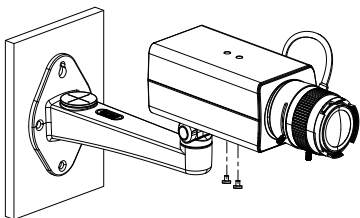


Figure 2-6 Installing the Camera to the Bracket

3. Adjust the camera to the optimal surveillance angle.

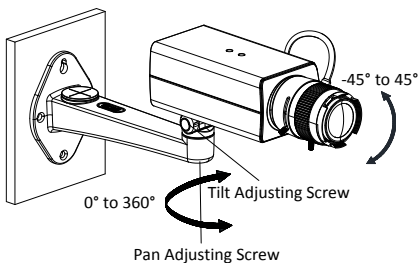


Figure 2-7 Adjusting the Surveillance Angle

- 1). Loosen the tilt adjusting screw to adjust the tilting position [-45° to 45°]. Tighten the screw.
- 2). Loosen the pan adjusting screw to adjust the panning position [0° to 360°]. Tighten the screw.

4. Adjust the Lens

- 1). Connect the VIDEO OUT interface of the camera to the debugging monitor.
- 2). Adjust the Zoom Lever and Focus Lever to obtain a perfect image on the monitor.

Notes:

- Do not remove the lens cap until you finish the installation to avoid the scrape and dust during the installation and wiring.
- 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.

3 Activate and Access Network Camera

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





See Far, Go Further