



Network Bullet 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 input voltage shall comply with the Safety Extra-Low Voltage (SELV) and the Limited Power Source (LPS) requirement of IEC 60950-1 or IEC 62368-1. 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 °C to +60 °C), 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

1.1 Type I Camera

The overview of Type I camera is shown below.

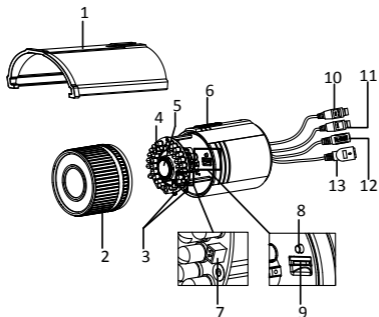


Figure 1-1 Overview of Type I Camera

Table 1-1 Description

No.	Description
1	Sun Shield
2	Front Cover
3	Zoom and Focus Lever
4	IR LED

No.	Description
5	Lens
6	Air Vent
7	Video Output Interface
8	Reset Button
9	Memory Card Slot
10	Audio Cable
11	Alarm Cable
12	Power Cord
13	Network Cable

1.2 Type II Camera

The overview of Type II camera is shown below.

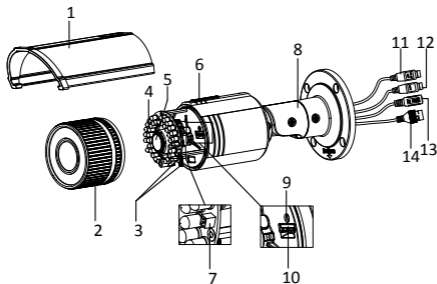


Figure 1-2 Overview of Type II Camera (1)

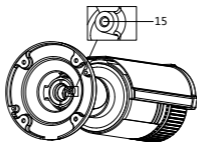


Figure 1-3 Overview of Type II Camera (2)

Table 1-2 Description

No.	Description
1	Sun Shield
2	Front Cover
3	Zoom and Focus Lever

No.	Description
4	IR LED
5	Lens
6	Air Vent
7	Video Output Interface
8	Bracket
9	Reset Button
10	Memory Card Slot
11	Audio Cable
12	Alarm Cable
13	Power Cord
14	Network Cable
15	Grounding

1.3 Type III Camera

The overview of Type III camera is shown below.

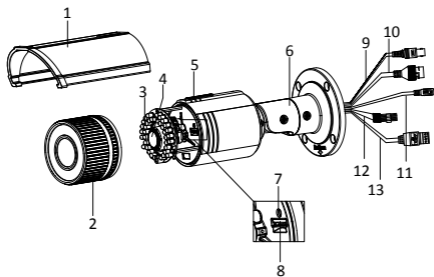


Figure 1-4 Overview of Type III Camera (1)

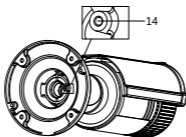


Figure 1-5 Overview of Type III Camera (2)

Table 1-3 Description

No.	Description
1	Sun Shield
2	Front Cover
3	IR LED

No.	Description
4	Lens
5	Air Vent
6	Bracket
7	Reset Button
8	Memory Card Slot
9	Video Cable
10	Network Cable
11	Power Cord
12	Alarm Cable
13	Audio Cable
14	Grounding

1.4 Type IV Camera

The overview of Type IV camera is shown below.

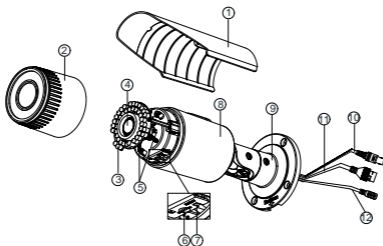


Figure 1-6 Overview of Type IV Camera

Table 1-4 Description

No.	Description
1	Sun Shield
2	Front Cover
3	IR LED
4	Lens
5	Zoom and Focus Lever
6	Memory Card Slot
7	Reset Button
8	Camera Body
9	Bracket

No.	Description
10	Video Cable
11	Network Cable
12	Power Cord

1.5 Type V Camera

The overview of Type V camera is shown below.

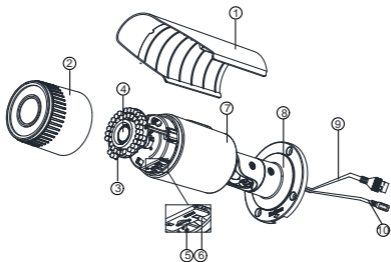


Figure 1-7 Overview of Type V Camera

Table 1-5 Description

No.	Description
1	Sun Shield
2	Front Cover

No.	Description
3	IR LED
4	Lens
5	Memory Card Slot
6	Reset Button
7	Camera Body
8	Bracket
9	Network Cable
10	Power Cord

1.6 Type VI Camera

The overview of Type VI camera is shown below.

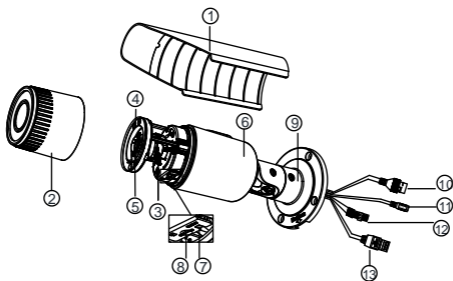


Figure 1-8 Overview of Type VI Camera

Table 1-6 Description

No.	Description
1	Sun Shield
2	Front Cover
3	Zoom and Focus Lever
4	IR LED
5	Lens
6	Camera Body
7	Reset Button
8	Memory Card Slot
9	Bracket
10	Network Cable
11	Power Input Cord
12	Audio Cable
13	Alarm Cable

1.7 Type VII Camera

The overview of Type VII camera is shown below.

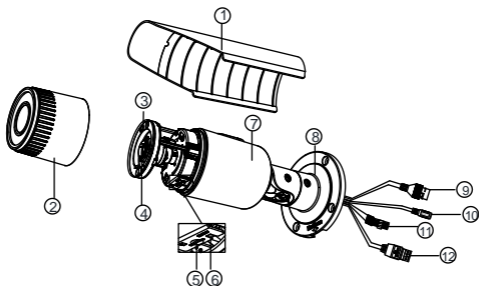


Figure 1-9 Overview of Type VII Camera

Table 1-7 Description

No.	Description
1	Sun Shield
2	Front Cover
3	IR LED
4	Lens
5	Memory Card Slot
6	Reset Button
7	Camera Body
8	Bracket
9	Network Cable

No.	Description
10	Power Input Cord
11	Audio Cable
12	Alarm Cable

Notes:

- Press RESET about 10 s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.
- For cameras support power over Ethernet (PoE), the power is passed along with data on Ethernet cabling. And a switch that supports PoE function is required.

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 12V DC or PoE. 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 precaution 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 Memory Card Installation

This series of cameras support memory card installation. Different camera types share the similar installation steps, and we take type I camera as the example.

Steps:

1. Rotate the lock screw counterclockwise to loosen it.

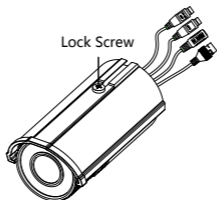


Figure 2-1 Loosen the Lock Screw

2. Remove the sun shield.

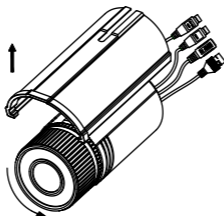


Figure 2-2 Remove the Sun Shield

3. Remove the front cover by rotating it counterclockwise.
4. Insert the memory card into the memory card slot.

Note:

Refer to **Section 1 Appearance Description** for the specific memory card slot location of different camera models.

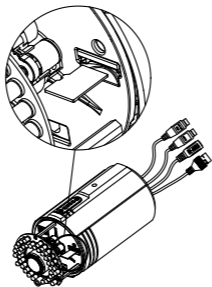


Figure 2-3 Insert the Memory Card

5. Rotate the front cover clockwise back to the camera and install the sun shield back.
6. Tighten the lock screw clockwise to tighten the sun shield.

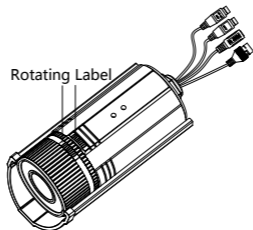


Figure 2-4 Tighten the Front Cover

Note:

For waterproof performance, align the rotating label on the front cover with that on the camera when you rotate the front cover clockwise.

2.2 Type I Camera Mounting

2.2.1 Wall Mounting

Before you start:

Wall mounting bracket is not included in the package. You need to purchase a bracket separately.

Steps:

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

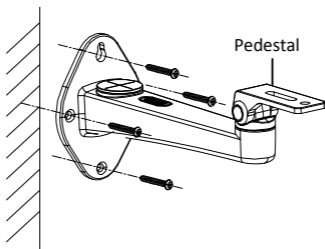


Figure 2-5 Install the Wall Mounting Bracket

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 the camera is mounted to a wooden wall.

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

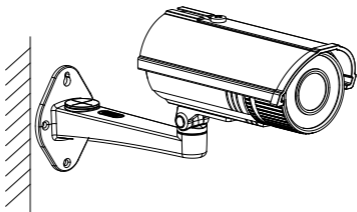


Figure 2-6 Install the Camera to the Bracket

3. Adjust the view angle.
 - 1). Loosen the pan adjusting screw to adjust the panning position from 0° to 360°. Tighten the screw.
 - 2). Loosen the tilt adjusting screw to adjust the tilting position from 0° to 90°. Tighten the screw.

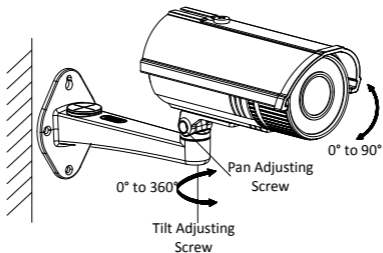


Figure 2-7 Adjust View Angle

4. Adjust zoom and focus (refer to **Section 2.4 Zoom and Focus Adjustment**).
5. (Optional) Install the waterproof jacket for network interface. Refer to **Section 2.5 Waterproof Measures** for detailed installation procedures.

2.2.2 Pendant Mounting

Before you start:

Pendant bracket is not included in the package. You need to purchase a bracket separately.

Steps:

1. Fix the pendant bracket to the ceiling with the supplied screws.

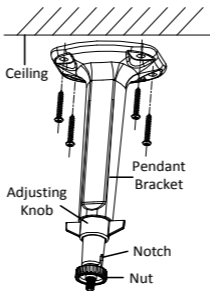


Figure 2-8 Fix the Pendant Bracket

2. Loosen and remove the lock screw on the sun shield of the camera.
3. Screw the camera to the pendant bracket through the lock screw hole. Tighten the nut to secure the camera.

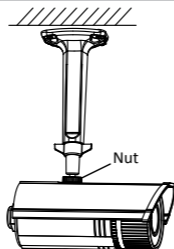


Figure 2-9 Secure the Camera

4. Adjust the view angle as shown in Figure 2-10.
 - 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 panning position from 0° to 360°.
- 4). Adjust tilting position from 0° to 90°.
- 5). Tighten the adjusting knob.

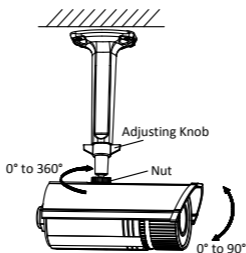


Figure 2-10 Adjust the View Angle

5. Adjust zoom and focus (refer to **Section 2.4 Zoom and Focus Adjustment**).
6. (Optional) Install the waterproof jacket for network interface. Refer to **Section 2.5 Waterproof Measures** for detailed installation procedures.

2.3 Other Types Camera Mounting

Before you start:

Camera of these types is equipped with a bracket. It can be mounted to a wall or a ceiling directly and can also be mounted with a junction box or a gang box.

2.3.1 Direct Mounting

Steps:

1. Attach the drill template (supplied) to the wall or the ceiling where the camera is to be mounted.
2. Drill screw holes in the wall or ceiling according to the hole 1 on the drill template.

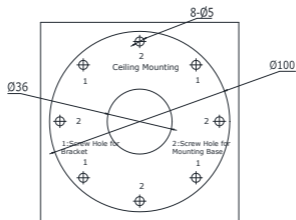


Figure 2-11 Drilling Holes in the Wall/Ceiling

3. If you need to route cables through the wall (or the ceiling), cut a cable hole according to the drill template. Skip this step if you want to route the cables on the surface of the wall (or the ceiling).
4. Route the cables of the camera.
5. Secure the camera to the wall (or the ceiling) with the expansion screws.

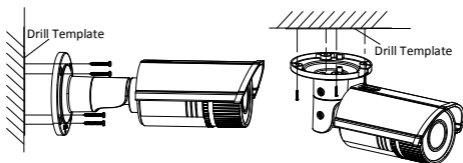


Figure 2-12 Secure the Camera

6. Adjust the view angle.

3-axis (pan/tilt/rotation) adjusting allows adjustment for optimum camera rotation and placement. Follow the steps below to adjust the view angle.

Pan Adjustment

Steps:

- 1). Loosen the lock screw 1.
- 2). Adjust the panning position of the camera. The adjusting range is from 0° to 360°.
- 3). Tighten the lock screw 1.

Tilt Adjustment

Steps:

- 1). Loosen the lock screw 2.
- 2). Adjust the tilting position of the camera. The adjusting range is from 0° to 100°.

Note:

For some camera models, the tilting adjusting angle is from 0° to 90°.

- 3). Tighten the lock screw 2.

Rotation Adjustment

Steps:

- 1). Loosen the lock screw 3.
- 2). Rotate the rotation position to adjust the azimuth angle of the image. The adjusting range is from 0° to 360°.
- 3). Tighten the lock screw 3.

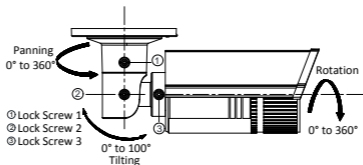


Figure 2-13 View Angle Adjustment

7. Adjust zoom and focus (refer to **Section 2.4 Zoom and Focus Adjustment**).
8. (Optional) Install the waterproof jacket for network interface. Refer to **Section 2.5 Waterproof Measures** for detailed installation procedures.

2.3.2 Mounting with a Junction Box

Before you start:

The junction box is not included in the package. You need to prepare one for this mounting type.

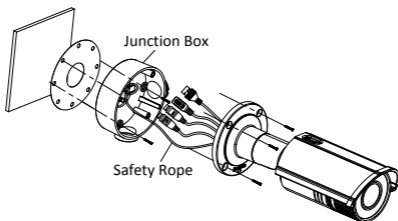


Figure 2-14 Mounting with a Junction Box

Steps:

1. Attach the drill template (supplied) to the wall where the camera is to be mounted and drill holes in the wall according to hole 2 on the drill template. See Figure 2-11.
2. If you need to route cables through the wall (or the ceiling), cut a cable hole according to the drill template. Skip this step if you want to route the cables on the surface of the wall (or the ceiling).
3. Secure the junction box to the wall (or the ceiling) with the expansion screws.
4. Hook the camera to the junction box with the safety rope.
5. (Optional) Install the waterproof jacket for network interface. Refer to **Section 2.5 Waterproof Measures** for detailed installation procedures.

6. Route the cables of the camera. Connect the interfaces to the power on the camera to see if you can get an image on your monitoring screen.

Note:

If you can't get the image, check the power and network connection before performing the next step.

7. Secure the camera to the junction box with the screws.
8. Adjust the view angle. Refer to Step 6 in **Section 2.3.1 Direct Mounting**.
9. Adjust zoom and focus (refer to **Section 2.4 Zoom and Focus Adjustment**).

2.3.3 Mounting with a Gang Box

Before you start:

The gang box is not included in the package. You need to prepare one for this mounting type.

Steps:

1. Secure the camera attachment to a gang box with the screws.
2. (Optional) Install the waterproof jacket for network interface. Refer to **Section 2.5 Waterproof Measures** for detailed installation procedures.
3. Route the cables of the camera.
4. Connect the interfaces to the power on the camera to see if you can get an image on you monitoring screen.

Note:

If you can't get the image, check the connection of the interfaces before performing the next step.

5. Secure the camera to the camera attachment with the screws.

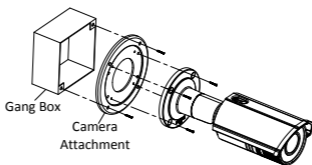


Figure 2-15 Mounting with a Gang Box

7. Adjust the view angle. Refer to Step 6 in **Section 2.3.1 Direct Mounting**.
8. Adjust zoom and focus (refer to **Section 2.4 Zoom and Focus Adjustment**).

2.4 Zoom and Focus Adjustment

2.4.1 Type I, Type II, Type IV, and Type VI

Purpose:

You can use the zoom lever and focus lever to adjust the zoom and focus level. Follow the steps below to adjust focus and zoom. We take type II camera as the example to explain the adjusting steps.

Steps:

1. Remove the sun shield and front cover to expose the zoom lever and the focus lever.

2. View the camera image on the monitoring screen.
3. Loosen the zoom lever and move the lever between T (Tele) and W (Wide) to obtain the desired angle of view.
4. Tighten the zoom lever.
5. Loosen the focus lever and move the lever between F (Far) and N (Near) to obtain the optimum focus.
6. Tighten the focus lever.
7. Install the sun shield and the front cover back to the camera .

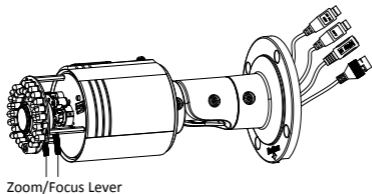


Figure 2-16 Zoom and Focus Adjustment

Note:

If the camera is equipped with a fixed lens, you don't need to adjust the zoom and focus.

2.4.2 Type III, Type V, and Type VII

Camera of these types is equipped with a motorized vari-focal lens. You can adjust the zoom and focus level on PTZ control panel by visiting the camera via web browser or client software.

For detailed steps, refer to the *User Manual of Network Camera*.

PTZ

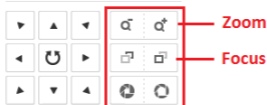


Figure 2-17 Zoom and Focus Adjustment via Web Browser

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

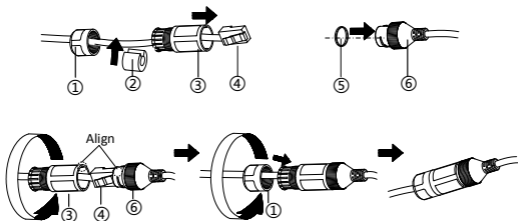


Figure 2-18 Install Waterproof Jacket

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.

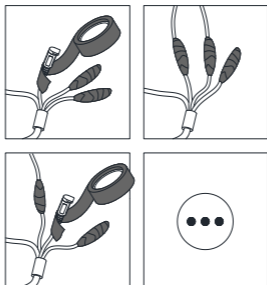


Figure 2-19 Waterproof Cables

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.





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