



Speed Dome

Quick Start Guide

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About this Manual

The Manual includes instructions for using and managing Radar PTZ Camera. 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 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 (A)/NMB-3(A) 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: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

	
Warnings Follow these safeguards to prevent serious injury or death.	Cautions Follow these precautions to prevent potential injury or material damage.



Warnings

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 24 VAC according to the IEC60950-1 standard. Refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Make sure that the plug is firmly connected to the power socket.
- Make sure that the power has been disconnected before you wire, install or dismantle the speed dome.
- 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 contact the service center.
- If the product does not work properly, contact your dealer or the nearest service center. Never attempt to disassemble the speed dome yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)



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.

- The high beam of IR supplement light at the distance of 200 mm is classified as Risk Group 1 (RG1). The white alarm light in solid mode is classified as Risk Group 2 (RG2). The minimum safe distance is approximately 1.5 m away from the device.
- Possibly hazardous optical radiation emitted from this product may be harmful to the eyes. Do not stare at operating light source.
- If appropriate shielding or eye protection is not available, turn on the light only at a safe distance or in the area that is not directly exposed to the light when installing or maintaining the device.
- If the speed dome fails to synchronize local time with that of the network, you need to set up speed dome time manually. Visit the speed dome (via web browser or client software) and enter system settings interface for time settings.
- Make sure the power supply voltage is correct before using the speed dome.
- Do not drop the speed dome or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid installation on vibrations surface or places subject to shock (ignorance can cause device damage).
- 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 speed dome will not be used for an extended period, replace the lens cap to protect the sensor from dirt.
- Do not aim the speed dome 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 speed dome in extremely hot (the operating temperature shall be -40°C to 70°C (-40°F to 158°F)), cold, 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 speed dome away from liquid while in use.
- While in delivery, the speed dome shall be packed in its original packing, or packing of the same texture.
- 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
- 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.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

L'utilisation ou le remplacement inadéquats de la pile peuvent entraîner un risque d'explosion. Remplacez-la par le même type ou l'équivalent du même type seulement. Jetez les piles usagées conformément aux directives fournies par le fabricant de la pile.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

Note : 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.

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1 Overview

Refer to the figure below for the cable interfaces of the device and the location of memory card slot.

1.1 Radar PTZ Camera Overview

The figures below are for reference only, refer to the actual product as the standard.

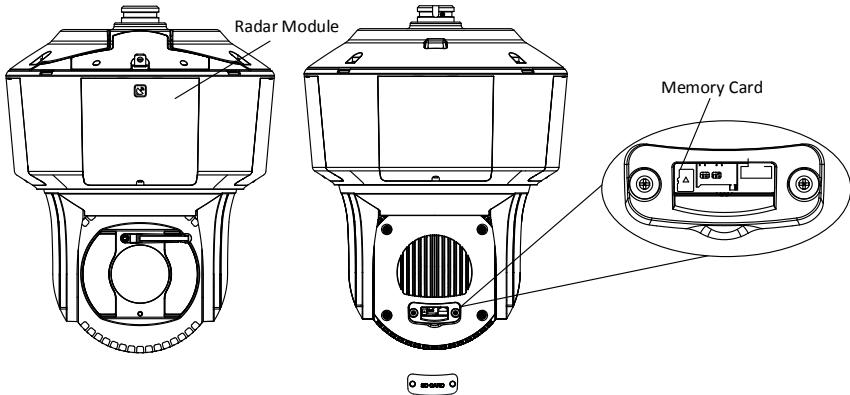


Figure 1-1 Overview of Radar PTZ Camera

1.2 Cable Interfaces

The cable interfaces of the device are shown below. The cables are distinguished by different colors. Refer to the labels attached on the cables for identification.

Notes:

- The cables vary depending on different models.
- Make sure the device is power-off before you connect the cables.
- Water-proof treatment is required for cable connectors. Refer to **Section 2.3 and 2.4** for details.

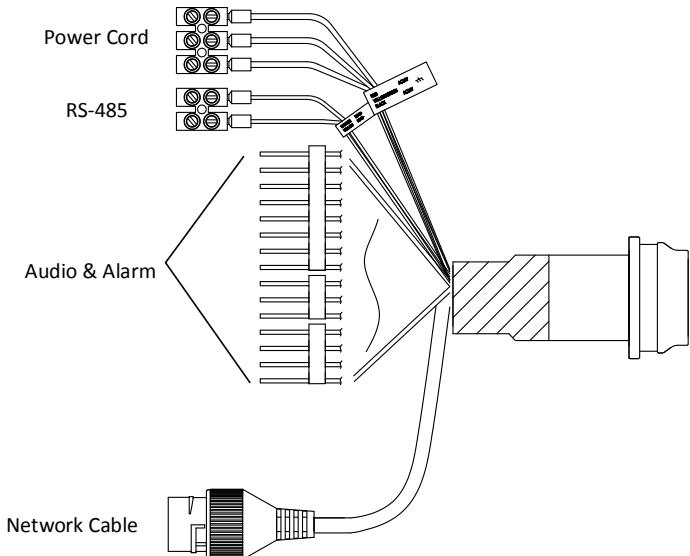


Figure 1-2 Cable Interfaces

1.3 Alarm Output

Alarm output is shown below.

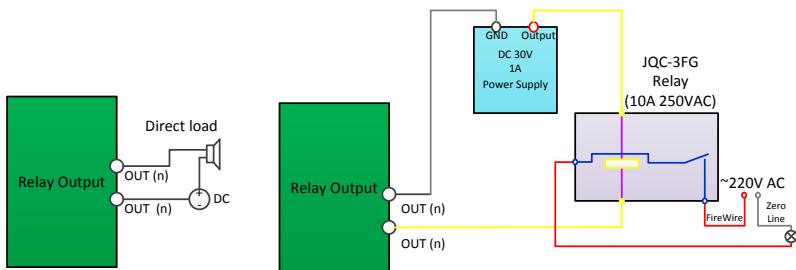


Figure 1-3 Alarm Output

2 Installation

Before you start:

Check the package contents and make sure that the device in the package is in good condition and all the assembly parts are included.

Notes:

- For better detection effect, it is recommended to install the device in spacious area without blocking.
- The tilt angle of the device should be less than 5°.
- The recommended mounting height is 4 to 5 m.
- The radar module should directly face to the target.
- Do not touch the bubble directly by hand. The image blurs otherwise.
- Do not power the speed dome up until the installation is finished. To ensure the safety of personnel and equipment, all the installation steps should be done with power supply off.
- Do not drag the speed dome with its waterproof cables; otherwise the waterproof performance is affected.

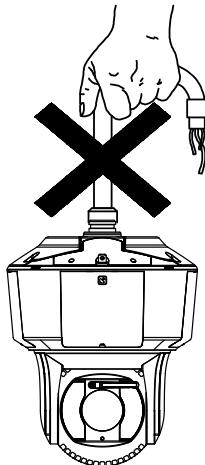


Figure 2-1 Do Not Drag the Cables

2.1 Wall Mounting

Notes:

- For cement wall, you need to use the expansion screw to fix the bracket. The mounting hole of the expansion pipe on the wall should align with the mounting hole on the bracket.
- For wooden wall, you can just use the self-tapping screw to fix the bracket.
- Make sure that the wall is strong enough to withstand more than eight times the weight of the speed dome and the accessories.
- Water-proof treatment is required for cable connectors. Refer to **Section 2.3 and 2.4** for details.

Steps:

1. Install the bracket.
 - 1) Drill four screw holes in the wall according to the holes on the bracket, and then insert four expansion screws into the mounting holes.
 - 2) Attach the bracket to the wall by aligning the four screw holes on the bracket with four expansion screws on the wall.
 - 3) Secure the bracket with four sets of hex nuts and washers.

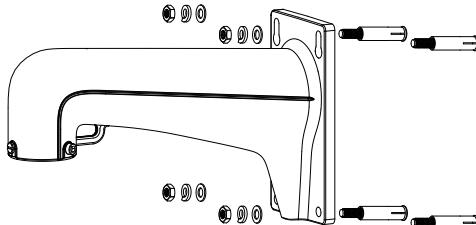


Figure 2-2 Install the Bracket

2. Use the wrench to fix head cover on the bracket.

Note:

Make sure the radar module is directly face to the moving target.

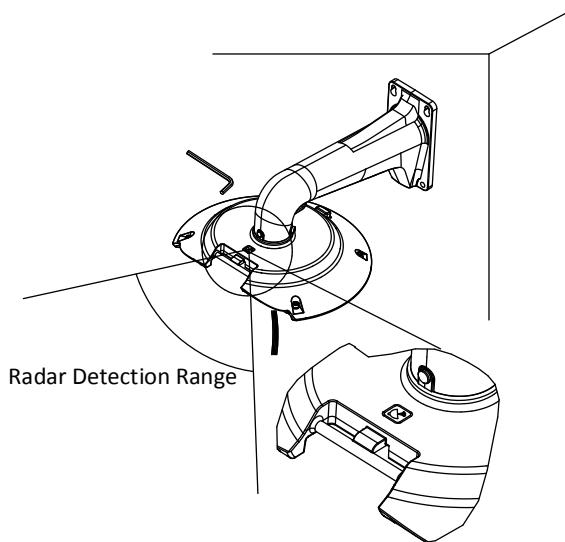


Figure 2-3 Install Head Cover

3. Hook the speed dome to the bracket with supplied safety rope.

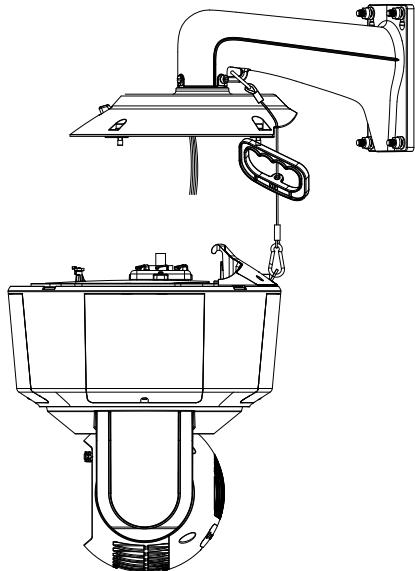


Figure 2-4 Use Safety Rope to Hook the Camera to the Bracket

4. Route and connect the cables through the head cover and bracket.

Note:

Water-proof treatment is required for cable connectors. Refer to **Section 2.3 and 2.4** for details.

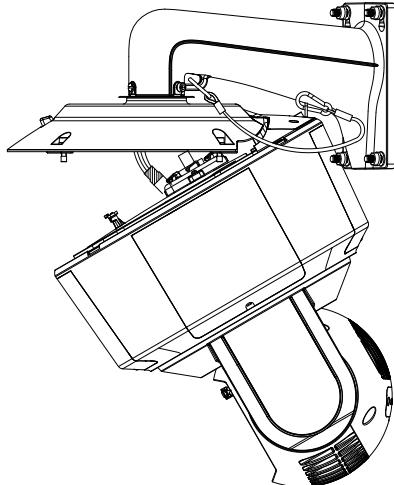


Figure 2-5 Connect the Cables

5. Align the speed dome with the head cover. Use the wrench to tighten the lock screws.

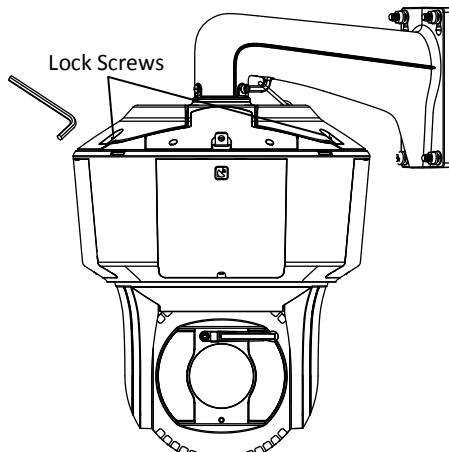


Figure 2-6 Secure the Speed Dome

2.2 Pendant Mounting

Steps:

1. Drill four holes on the ceiling to match those on the pendant mount bracket.

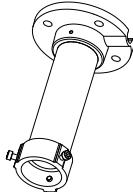


Figure 2-7 Pendant Mount

2. Route the cables through the bracket, then align the base plate to the holes and fix it to the ceiling with four screws.

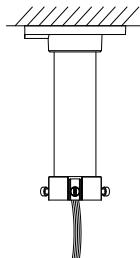


Figure 2-8 Route the Cables and Fix the Bracket on the Ceiling

3. Use the wrench to fix the head cover on the bracket.

Note:

Make sure the radar module can directly face to the moving target.

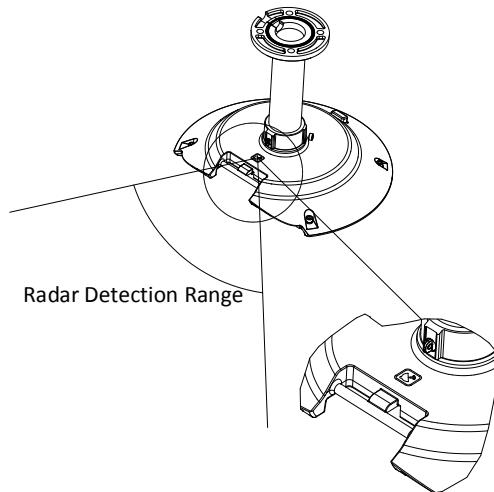


Figure 2-9 Fix the Head Cover

4. Hook the speed dome to the bracket with supplied safety rope.

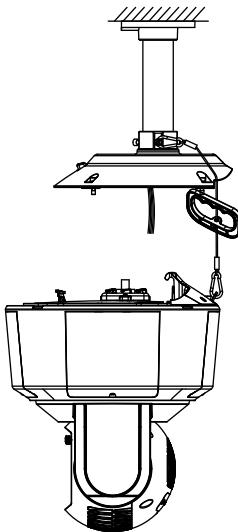


Figure 2-10 Use Safety Rope to Hook the Camera with Bracket

5. Connect the cables, and align the speed dome with the head cover, using wrench to tighten the screws on the head cover.

Note:

Water-proof treatment is required for cable connectors. Refer to **Section 2.3 and 2.4** for details.

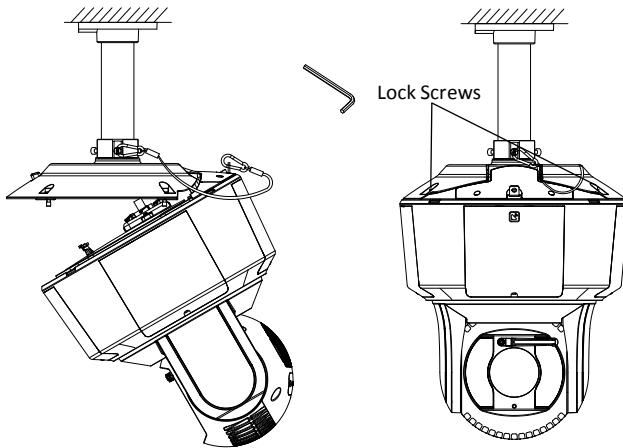


Figure 2-11 Finish the Installation

2.3 Installation of Network Cable Waterproof Jacket

Purpose:

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.

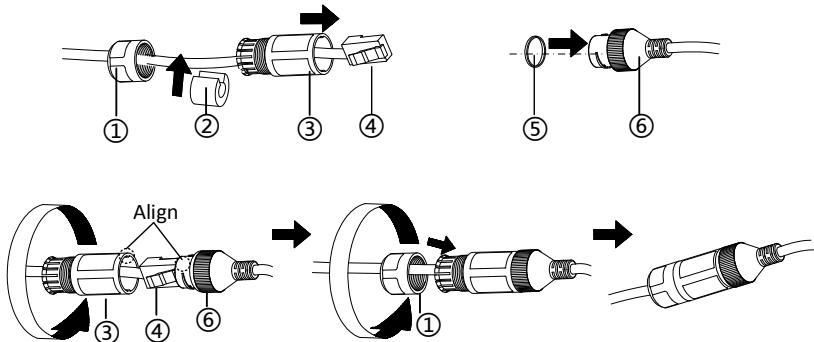


Figure 2-12 Install Waterproof Jacket

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.

2.4 Installation of Water-proof Tape

Purpose:

If the camera is installed outdoor, you can use supplied water-proof tape to protect cable connectors and unused cables after the camera is secured on the installation surface.

Steps:

1. Tear off the yellow release paper on the back of the water-proof tape.
2. Stretch the water-proof tape to reach twice the initial length.

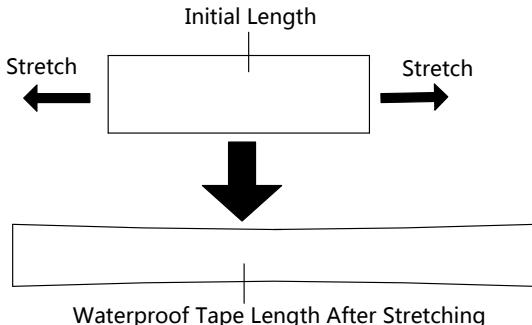


Figure 2-13 Stretch the Water-proof Tape

3. Wrap the water-proof tape around the cable connector tightly as the figure below.

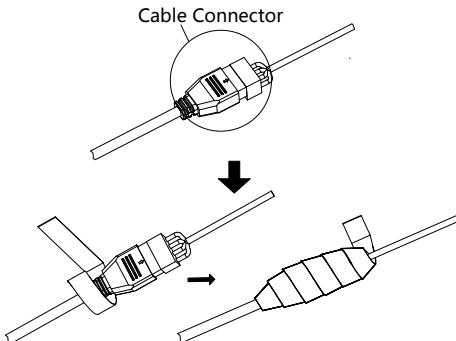


Figure 2-14 Wrap the Water-proof Tape

Note:

Make sure that all naked wires are all firmly wrapped in the water-proof tape.

4. Press the tape on both ends of the connector to make sure no water can get in as the figure below.

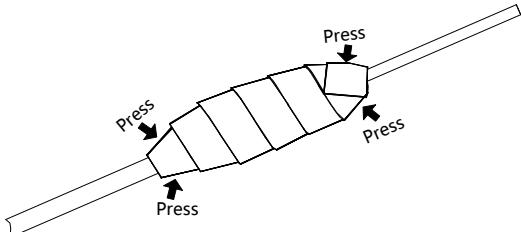


Figure 2-15 Press the Water-proof Tape

5. Wrap the water-proof tape around the remaining unused cables tightly as the figure below.

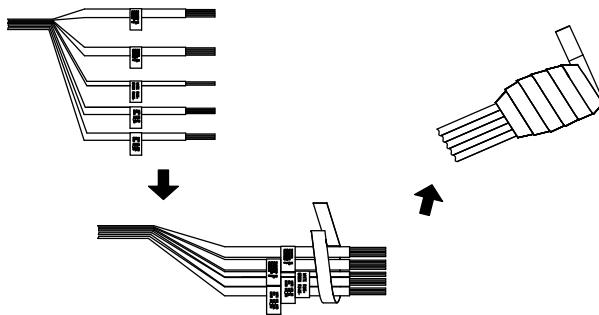


Figure 2-16 Wrap the Unused Cables

Note:

Make sure that all naked wires are all firmly wrapped in the water-proof tape.

6. Press the tape to make sure no water can get in as the figure below.

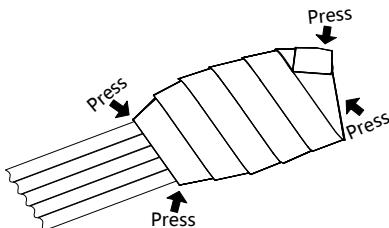


Figure 2-17 Press the Water-proof Tape

2.5 Protective Measures for Outdoor Installation

If the device is installed outdoors, necessary protective measures should be taken to ensure safety. Scan the following QR code to get protective measures for outdoor installation.



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.





See Far, Go Further