Network Dome Camera

Quick Start Guide

Quick Start Guide

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 company website

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

Trademarks Acknowledgement

Trademarks and logos mentioned are the properties of their respective owners.

LEGAL DISCLAIMER

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS MANUAL AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED “AS IS” AND “WITH ALL FAULTS AND ERRORS”. OUR COMPANY MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL OUR COMPANY BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING

NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF OUR COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.

YOU ACKNOWLEDGE THAT THE NATURE OF INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND OUR COMPANY SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INSPECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, OUR COMPANY WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.

IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATER PREVAILS.

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.

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°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.)

Table of Contents

1 Appearance Description 10

1.1 Type I/II 10

1.2 Type III 12

1.3 Type IV 14

2 Installation 16

2.1 Memory Card Installation 17

2.2 Ceiling Mounting 18

2.3 Mounting with Brackets 23

2.3.1 Wall Mounting 23

2.3.2 Wall Mounting with Junction Box 26

2.3.3 Pendant Mounting 28

2.3.4 Incline Mounting 30

2.4 Waterproof Measures 32

2.4.1 Install Network Cable Waterproof Jacket 32

2.4.2 Waterproof Other Cables 33

3 Activate and Access Network Camera 34

1 Appearance Description

This series of cameras has four types. Type I and Type II shares the same appearance, shown as the figure 1-1.

1.1 Type I/II

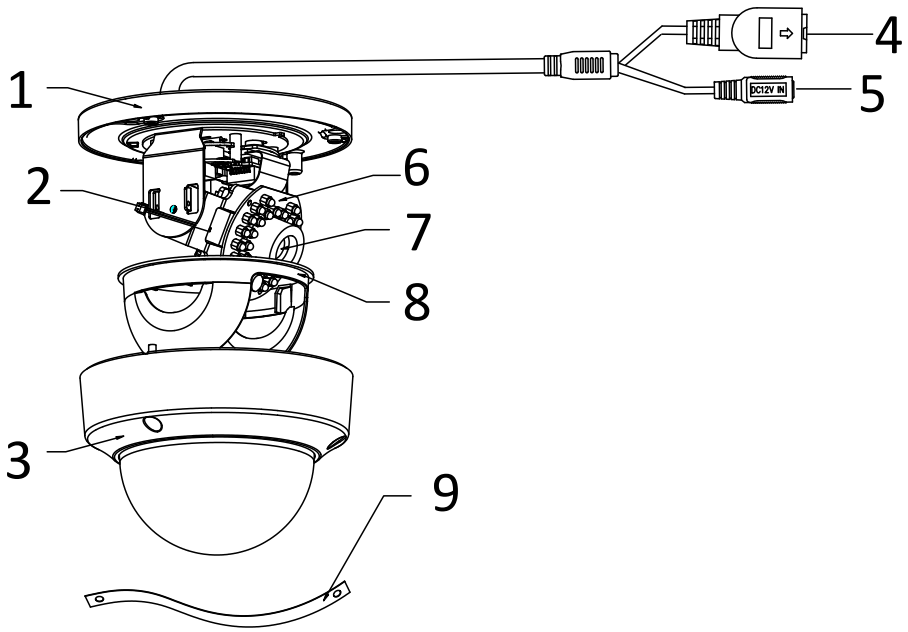


Figure 1-1 Type I/II Camera Overview

Table 1-1 Type I/II Camera Description

No.	Description
1	Mounting Base
2	Tilt Adjusting Screw
3	Bubble

4	Network Interface
5	Power Interface
6	IR LED
7	Lens
8	Black Liner
9	Safety Rope

1.2 Type III

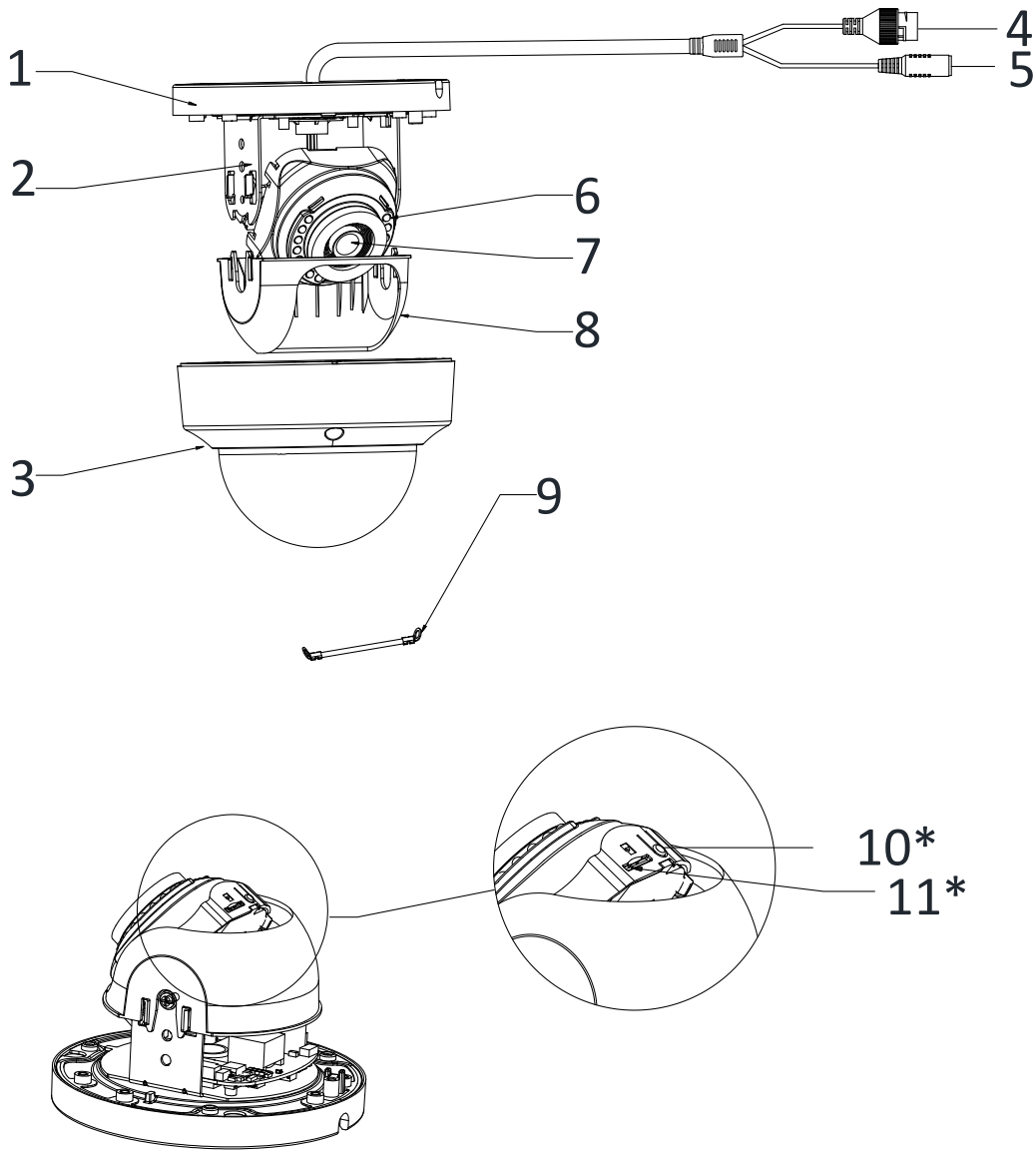


Figure 1-2 Type III Camera Overview

Table 1-2 Type III Camera Description

No.	Description
1	Mounting Base
2	Panning Adjusting Bracket
3	Bubble
4	Network Interface
5	Power Interface
6	IR LED
7	Lens
8	Black Liner
9	Safety Rope
10*	RESET Button
11*	Memory Card Slot

1.3 Type IV

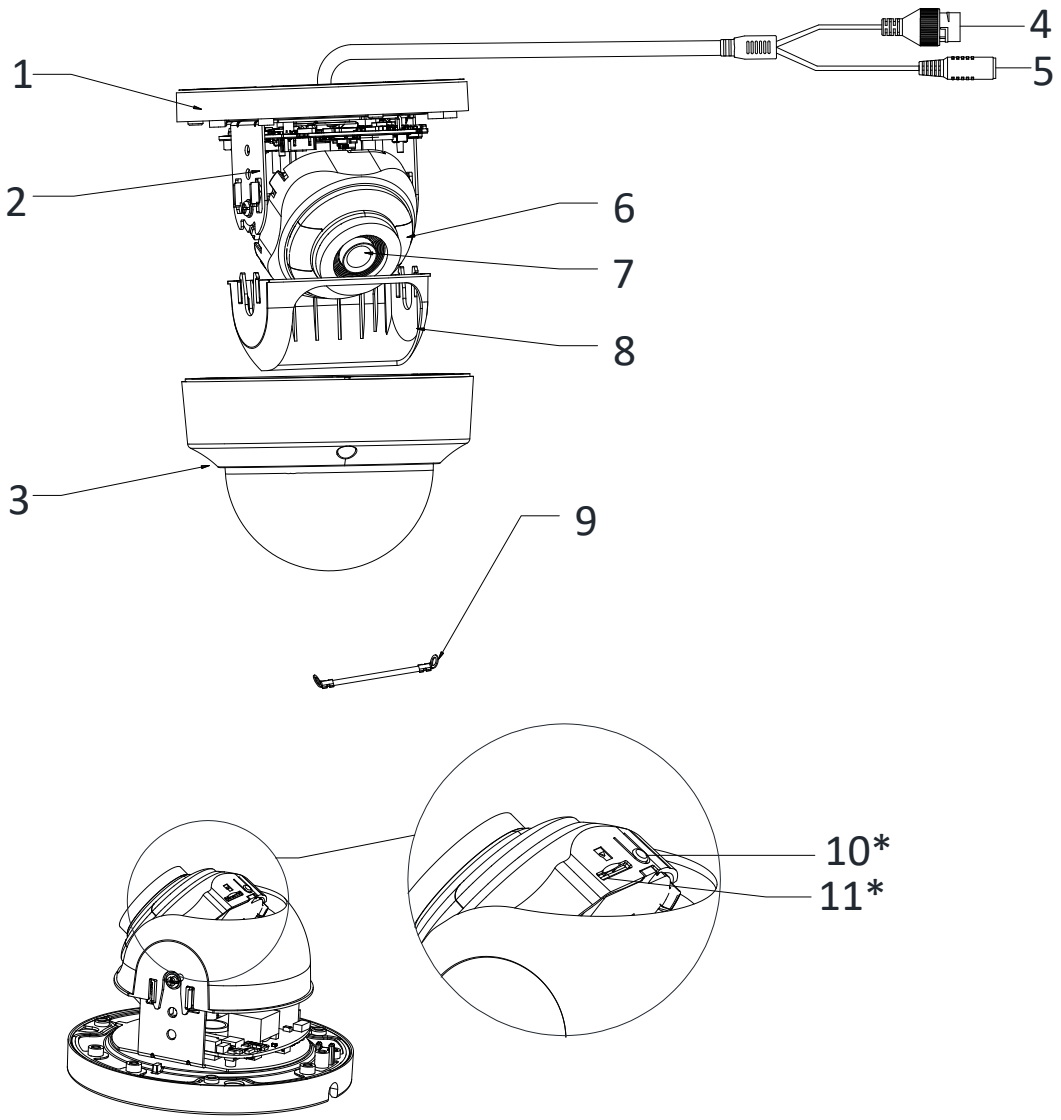


Figure 1-3 Type IV Camera Overview

Table 1-3 Type IV Camera Description

No.	Description
1	Mounting Base
2	Panning Adjusting Bracket
3	Bubble
4	Network Interface
5	Power Interface
6	IR Cover
7	Lens
8	Black Liner
9	Safety Rope
10*	RESET Button
11*	Memory Card Slot

Note:

- The item marked with the "*" is only supported by certain camera models.
- Press RESET button 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.

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 12 VDC 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 precautions to prevent IR reflection:

- Dust or grease on the dome cover will cause IR reflection. 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 to cause the 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 Memory Card Installation

For camera models that support memory card as local storage, you can follow the steps to mount and unmount the memory card.

This camera series shares a similar structure. Type III camera is used for demonstration.

Steps:

1. Loosen the screws on the bubble. Remove the bubble to expose the memory card slot.

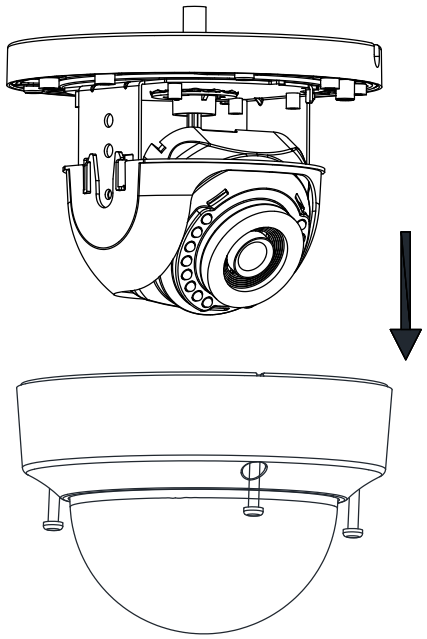


Figure 2-1 Remove Bubble

Notes:

- In case of losing, screws on bubble cannot be screwed out thoroughly.

- The bubble is fastened to the camera with a safety rope, do not force to remove the bubble, otherwise the camera will be damaged.

2. Find the memory card slot to insert the memory card.

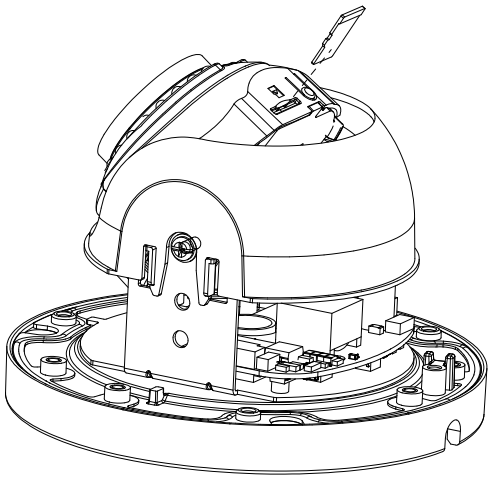


Figure 2-2 Insert Memory Card

3. (Optional) To unmount the memory card, push to get it ejected.

2.2 Ceiling Mounting

This camera series shares a similar structure, type III camera is used for demonstration.

Steps:

1. Paste the drill template to the desired mounting place.
2. Drill the screw holes on the ceiling according to the drill template.

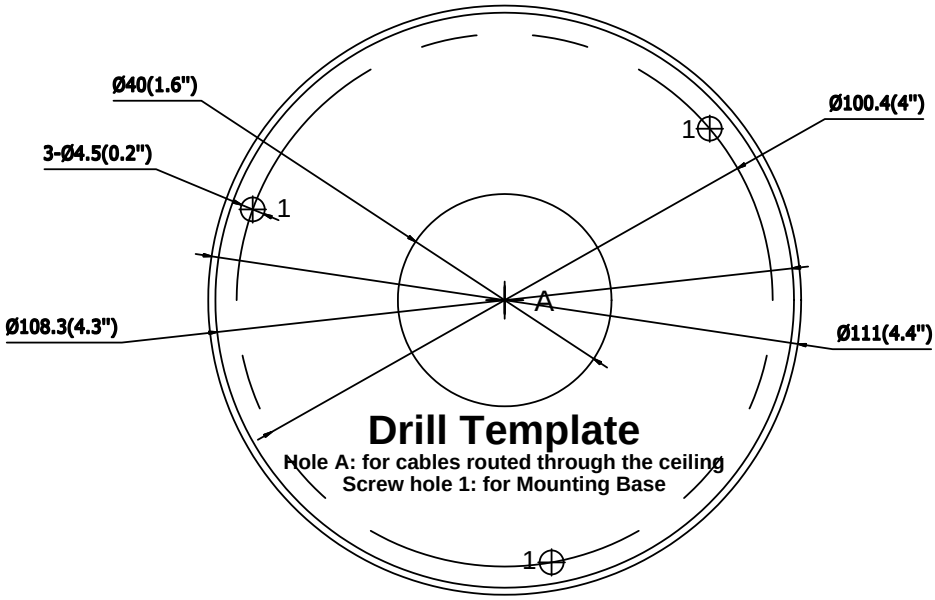


Figure 2-3 Drill Template

Notes:

- If you choose to route cable through the ceiling, cut a cable hole according to Hole A on drill template.
- You can also route cable from the side outlet.
- If you install the camera for outdoor scenes, install the waterproof jacket to the network cable. See Section 2.4.

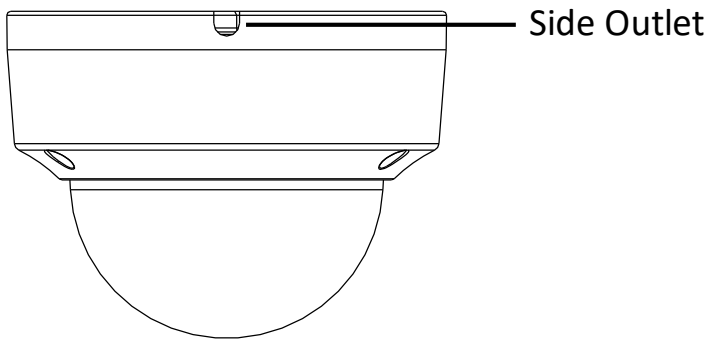


Figure 2-4 Side Outlet

3. Route the cables and fix the mounting base on the ceiling with three screws.

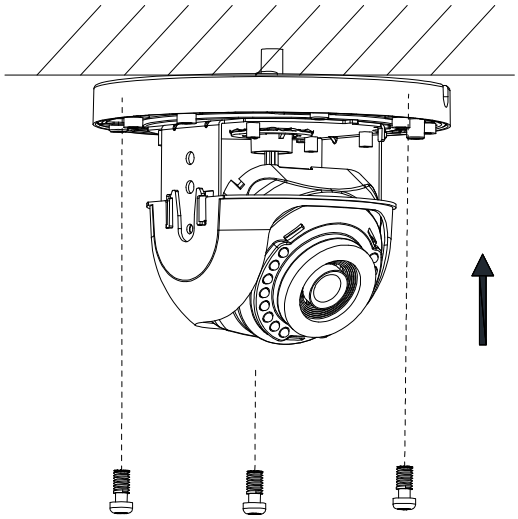


Figure 2-5 Fix the Mounting Base

4. Adjust surveillance angle. See the figure of each camera type for detailed angle adjustment range。

   1). Loosen one tilting adjust adjusting screw to adjust the tilting position. Tighten the screw after adjustment.

   2). Hold the black liner to adjust the panning position.

   3). Hold the lens to adjust the rotating position*.

   Notes:

   - Rotating position adjustment is not supported by Type I, Type III and Type IV camera.
   - For some camera models of Type IV, the tilt adjusting angle is from 0° to 60°.

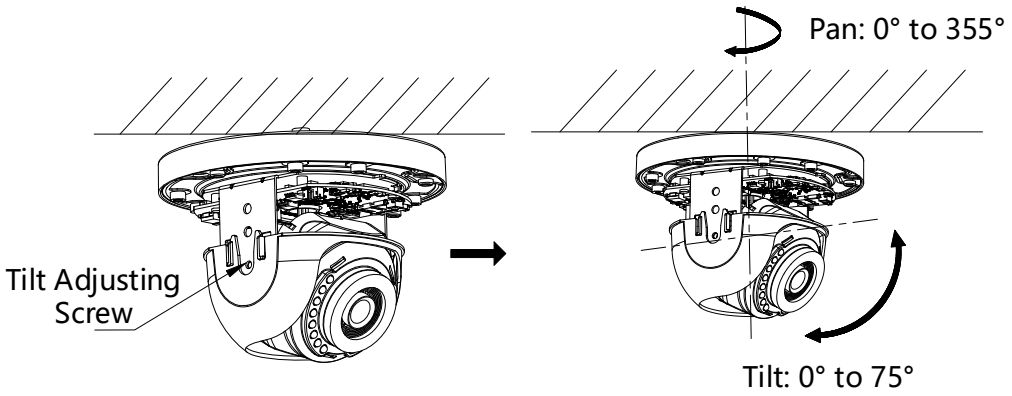
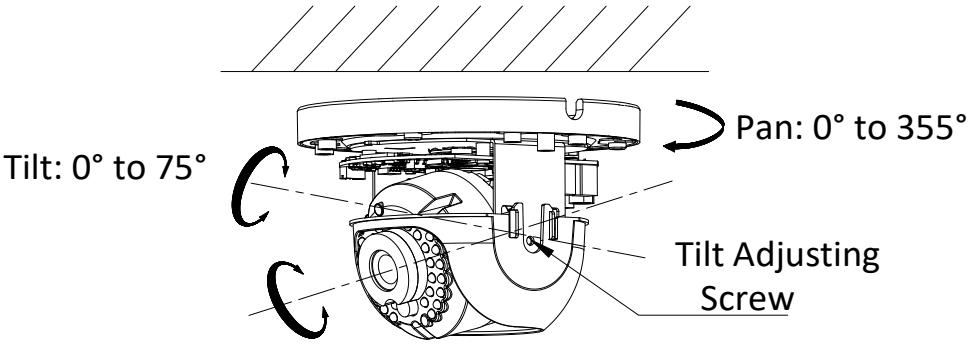


Figure 2-6 Type I Camera 2-Axis Adjustment



Rotate*: 0° to 355°

Figure 2-7 Type II Camera 2/3-Axis Adjustment

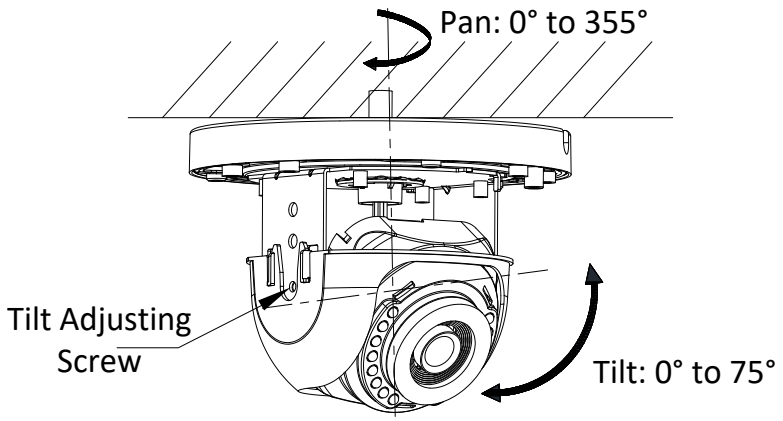


Figure 2-8 Type III Camera 2-Axis Adjustment

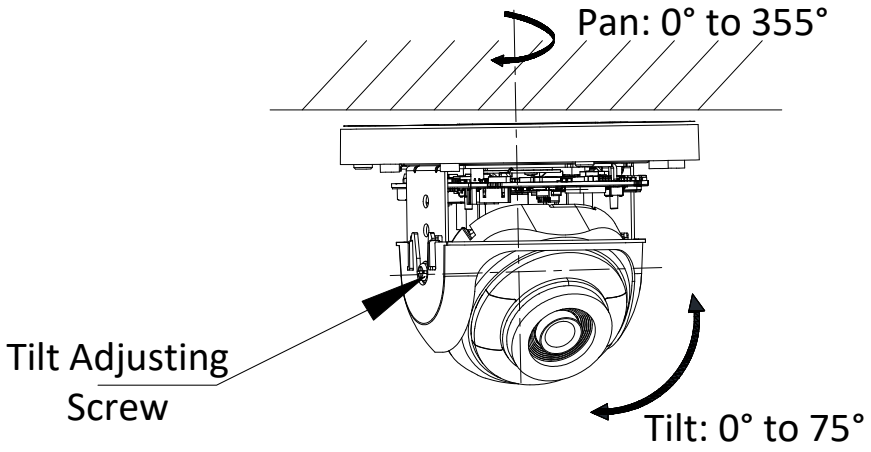


Figure 2-9 Type IV Camera 2-Axis Adjustment (1)

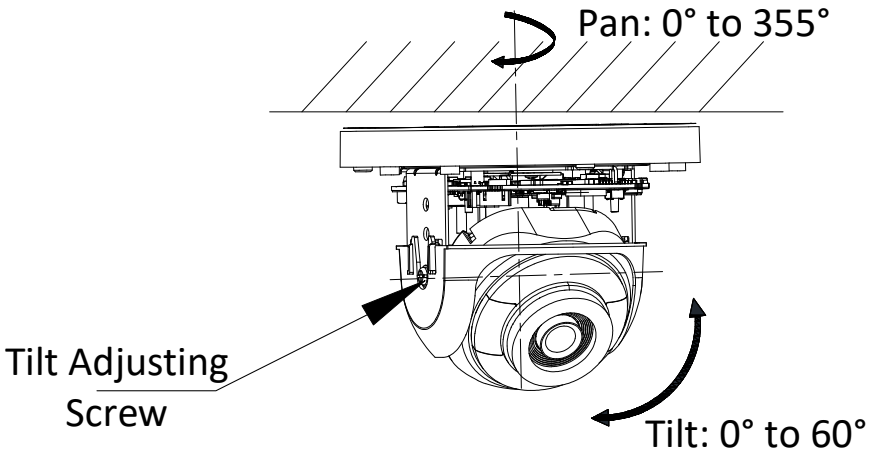


Figure 2-10 Type IV Camera 2-Axis Adjustment (2)

5. Install the bubble back to the camera.

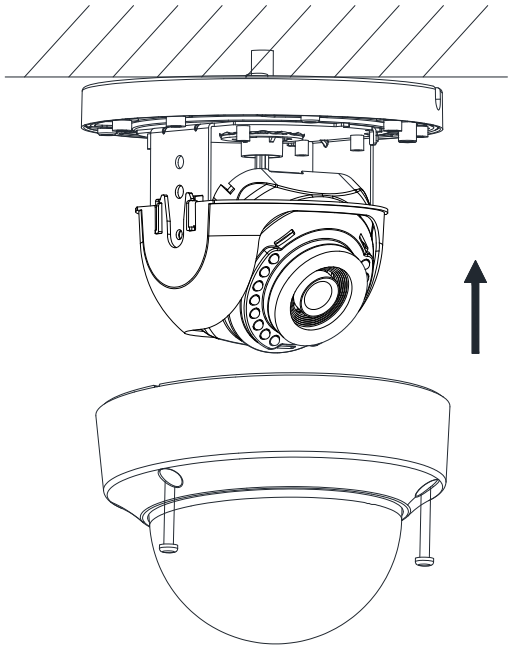


Figure 2-11 Install Bubble

2.3 Mounting with Brackets

This camera series supports mounting with wall mounting bracket, pendant mounting bracket, and incline mounting bracket. We take Type III camera as the demonstration example.

2.3.1 Wall Mounting

The wall mounting bracket is not included in the package. You need to prepare one, if you adopt this mounting type.

Steps:

1. Mark the screw holes on desired mounting place.

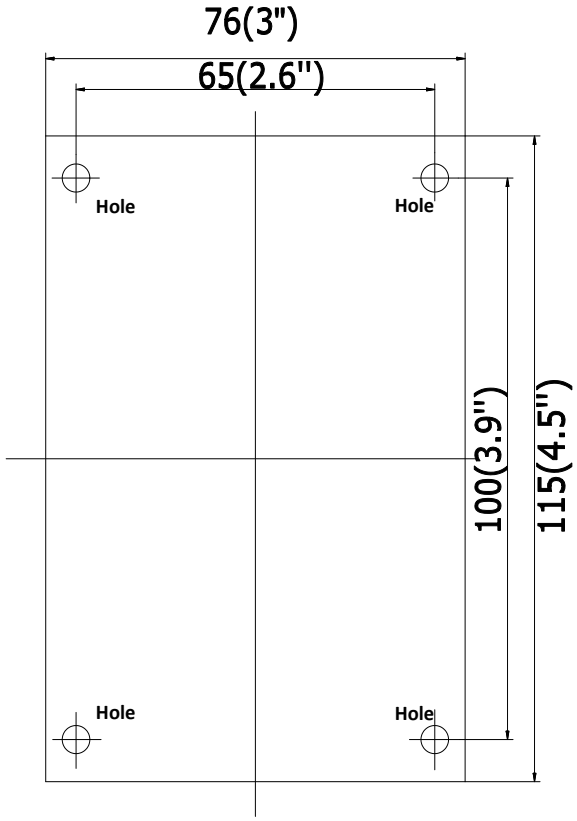


Figure 2-12 Mark Screw Hole

2. Drill four screw holes for expansion screws.
3. Unscrew the bubble of the camera.
4. (Optional) Insert the memory card to the camera, if your camera supports memory card installation. Refer to Section 2.1.
5. Route the cables and fix the camera to the cap of the wall mounting bracket with three supplied self-tapping screws.

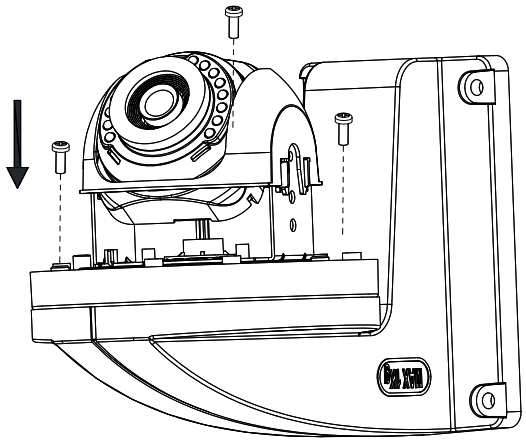


Figure 2-13 Fix the Camera to Wall Mounting Bracket

6. Align the wall mounting bracket to the screw holes and fix it to wall.

   Note:

   If you install the camera for outdoor scenes, install the waterproof jacket to the network cable. See Section 2.4.

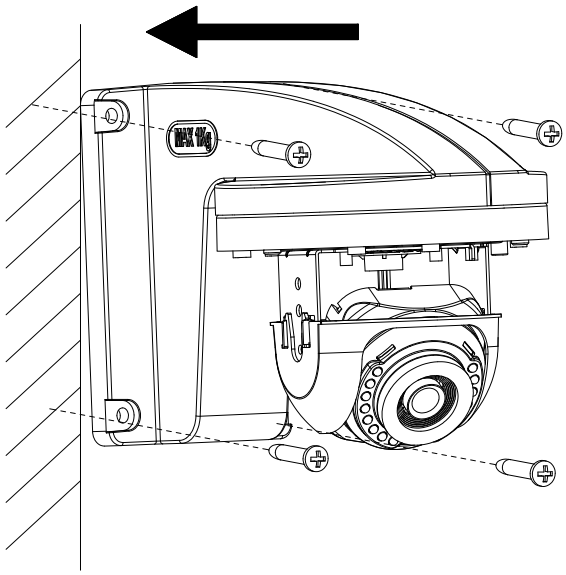


Figure 2-14 Fix the Wall Mounting Bracket to Wall

7. Adjust surveillance angle of camera. Refer to Step 4 in Section 2.2.
8. Install the bubble back to the camera.

2.3.2 Wall Mounting with Junction Box

The wall mounting bracket with junction box is not included in the package. You need to prepare one, if you adopt this mounting type.

Steps:

1. Mark the screw holes on desired mounting place.
2. Fix the bracket to the wall with four expansion bolts.

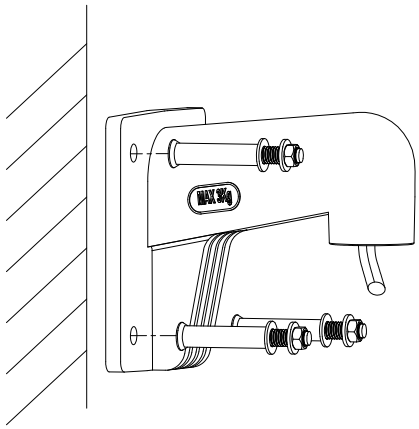


Figure 2-15 Fix the Bracket

3. Route the cables.

   Note:

   If you install the camera for outdoor scenes, install the waterproof jacket to the network cable. See Section 2.4.

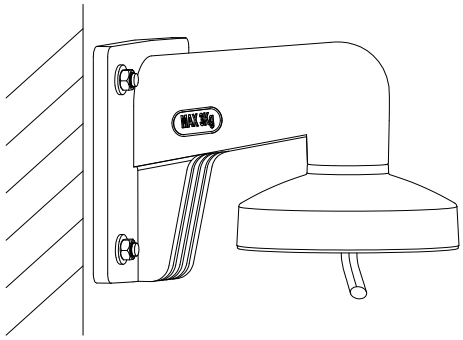


Figure 2-16 Cable Routing

4. Unscrew the bubble of the camera.
5. (Optional) Insert the memory card to the camera, if your camera supports memory card installation. Refer to Section 2.1.
6. Fix the camera to the cap of the wall mounting bracket.

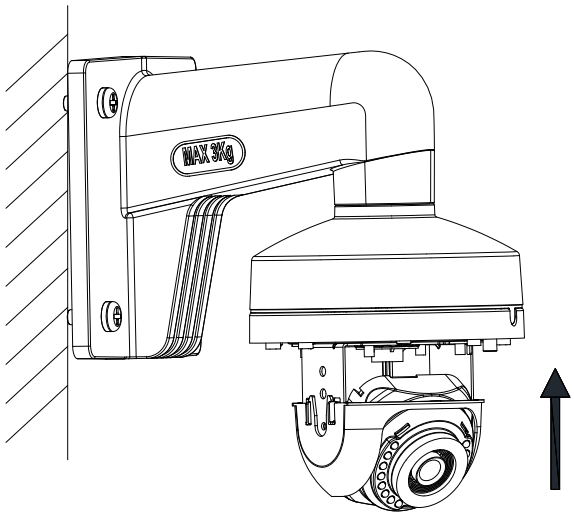


Figure 2-17 Fix the Camera to Wall Mounting Bracket

7. Adjust surveillance angle of camera. Refer to Step 4 in Section 2.2.
8. Install the bubble back to the camera.

2.3.3 Pendant Mounting

The pendant mounting bracket is not included in the package. You need to prepare one in advance, if you adopt this mounting type.

Steps:

1. Mark the screw holes on desired mounting place.
2. Drill four screw holes for expansion bolts.
3. Route the cables and fix the pendant mounting bracket to ceiling.

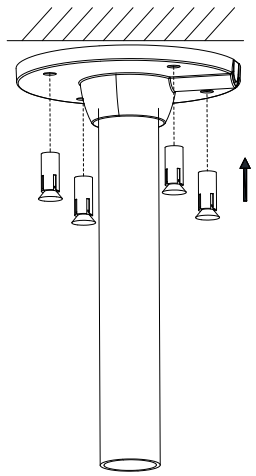


Figure 2-18 Fix the Pendant Mount

4. Unscrew the bubble of the camera.
5. (Optional) Insert the memory card to the camera, if your camera supports memory card installation. Refer to Section 2.1.
6. Fix the camera to the cap of the pendant mounting bracket with three supplied self-tapping screws.

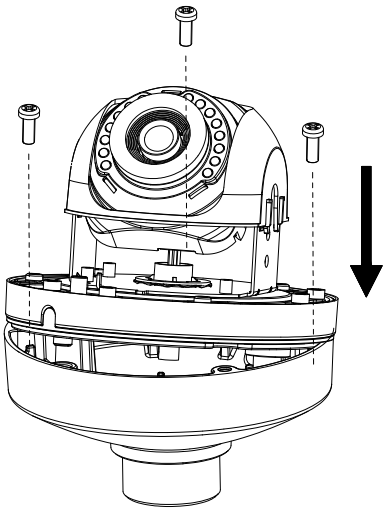


Figure 2-19 Fix the Camera to Cap

7. Screw the cap to the pendant mounting bracket.

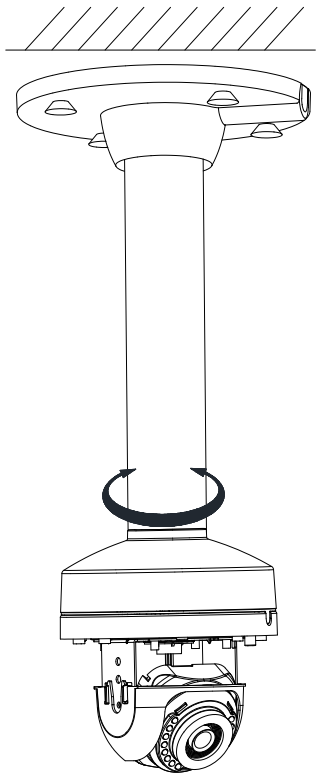


Figure 2-20 Install the Cap

8. Adjust surveillance angle of camera. Refer to Step 4 in Section 2.2.
9. Install the bubble back to the camera.

2.3.4 Incline Mounting

The incline mounting bracket is not included in the package. You need to prepare one, if you adopt this mounting type.

Steps:

1. Paste the drill template to desired mounting place.

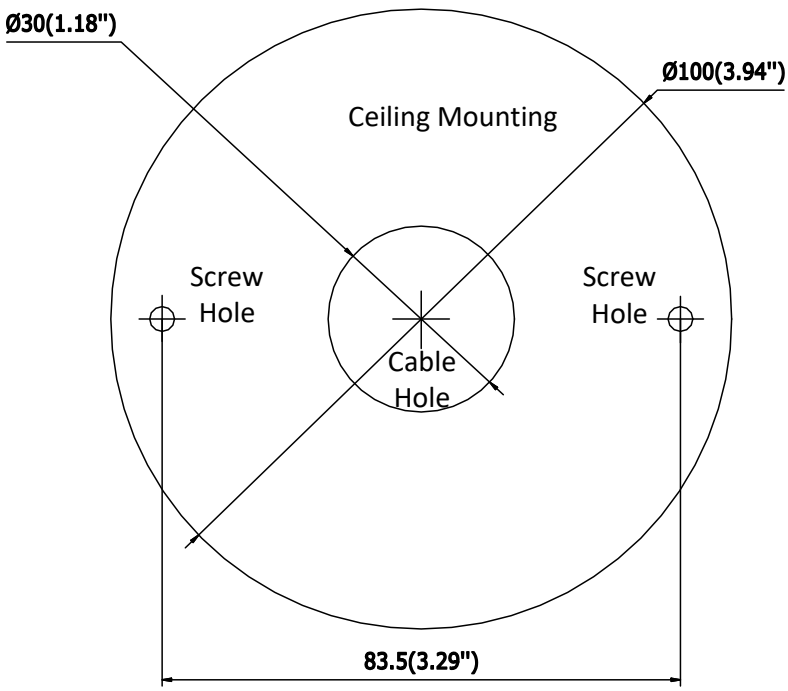


Figure 2-21 Drill Template

2. Drill two screw holes for expansion screws, and a cable hole according to the template.
3. Fix the incline mounting bracket to ceiling.

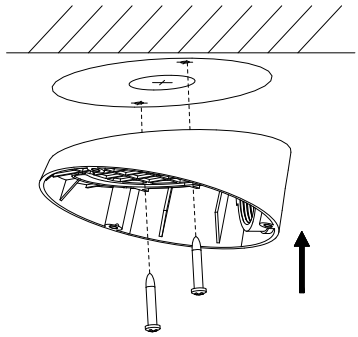


Figure 2-22 Fix Incline Mounting Bracket to Wall

4. Unscrew the bubble of the camera.
5. (Optional) Insert the memory card to the camera, if your camera supports memory card installation. Refer to Section 2.1.
6. Route the cables and fix the camera to the incline mounting bracket with three supplied self-tapping screws.

   Note:

   If you install the camera for outdoor scenes, install the waterproof jacket to the network cable. See Section 2.4.

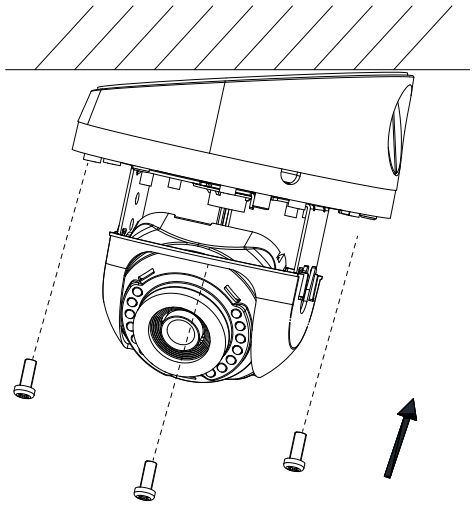


Figure 2-23 Fix the Camera to Incline Mounting Bracket

7. Adjust surveillance angle of camera. Refer to Step 4 in Section 2.2.
8. Install the bubble back to the camera.

2.4 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.

2.4.1 Install Network Cable Waterproof Jacket

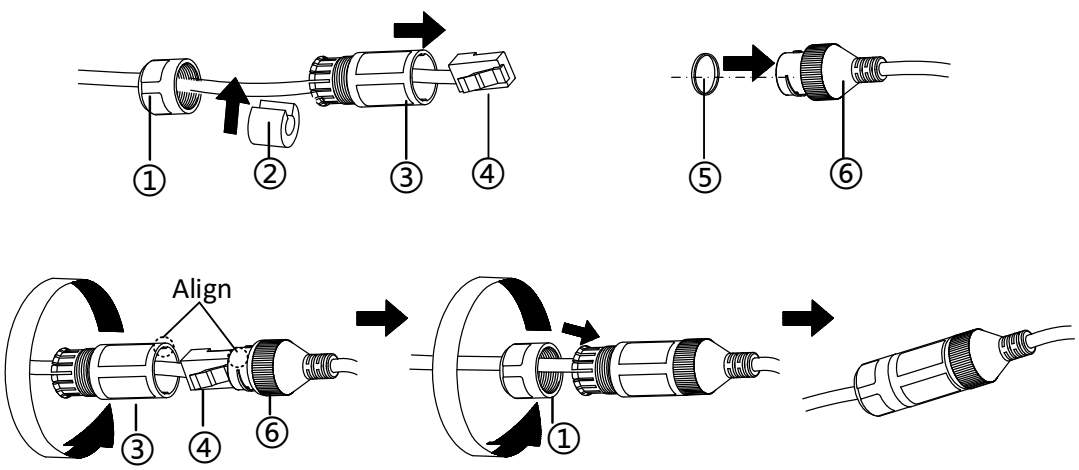


Figure 2-24 Install Waterproof Jacket

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.

2.4.2 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.

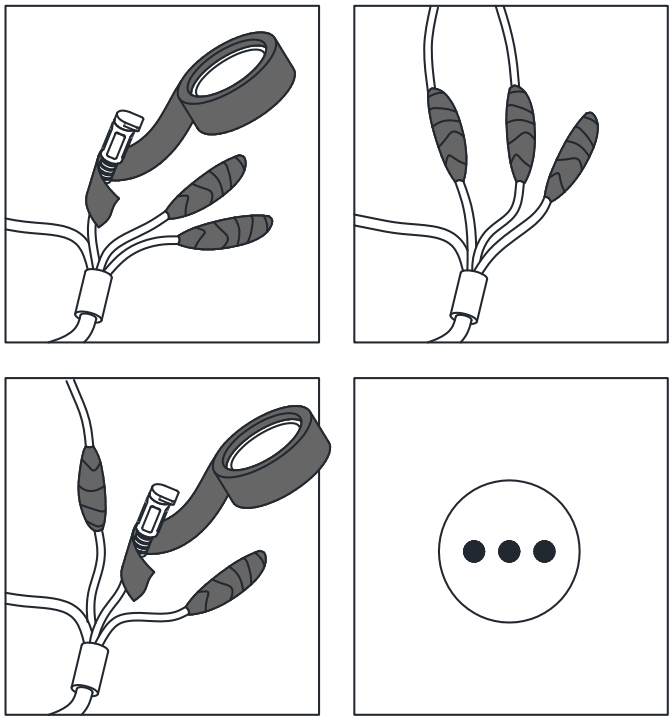


Figure 2-25 Waterproof Cables

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.