



Network Dome Camera

Quick Start Guide

Quick Start Guide

© 2020 Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

This Manual is the property of Hangzhou Hikvision Digital Technology Co., Ltd. or its affiliates (hereinafter referred to as “Hikvision”), and it cannot be reproduced, changed, translated, or distributed, partially or wholly, by any means, without the prior written permission of Hikvision. Unless otherwise expressly stated herein, Hikvision does not make any warranties, guarantees or representations, express or implied, regarding to the Manual, any information contained herein.

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.

Trademarks Acknowledgement

- **HIKVISION** and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.
- Other 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”. HIKVISION 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 HIKVISION 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 HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.

YOU ACKNOWLEDGE THAT THE NATURE OF INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKVISION 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, HIKVISION 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

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 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 $-30\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$), 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.

Network Dome Camera • Quick Start Guide

- 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	12
2 Installation	17
2.1 Install the Memory Card	18
2.2 Camera Mounting.....	19
2.2.1 Ceiling Mounting.....	20
2.2.2 Wall Mounting.....	22
2.2.3 Pendant Mounting	25
2.3 Adjust Zoom and Focus	29
2.3.1 Manually Adjustment	29
2.3.2 Motor-Driven Lens	30
2.4 Waterproof Measures	30
2.4.1 Install Network Cable Waterproof Jacket	30
2.4.2 Waterproof Other Cables	31
3 Activate and Access Network Camera	32

1 Appearance Description

This series of cameras has three types with the same appearance and different cable connections. The overview of these types of cameras are shown below.

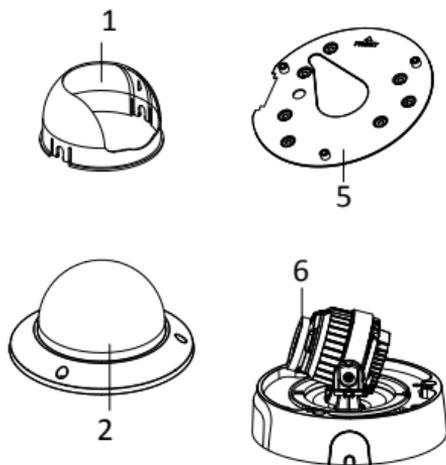


Figure 1-1 Appearance of Camera

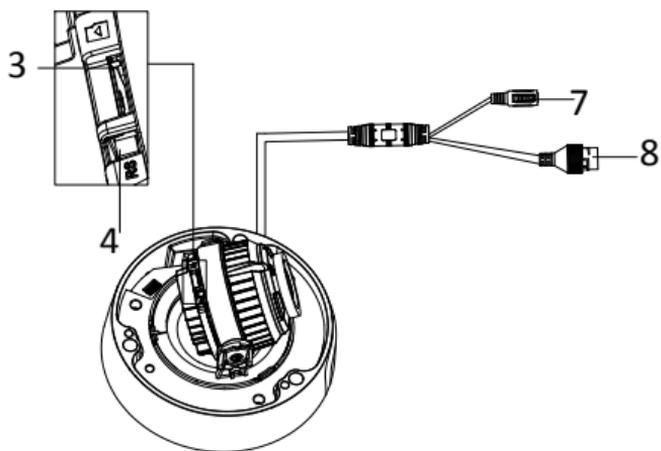


Figure 1-2 Cable Connection of Type I Camera

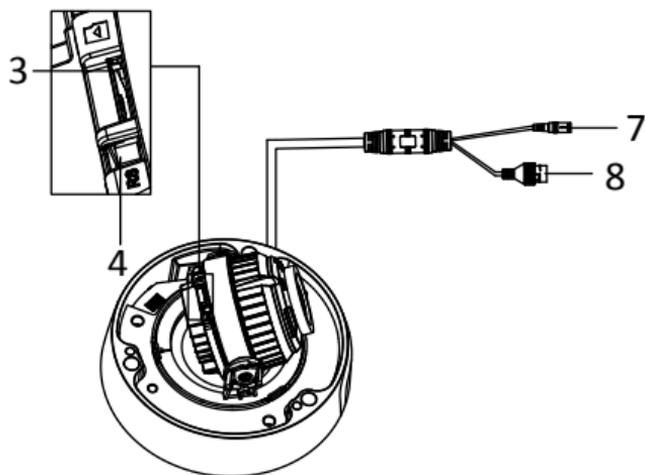


Figure 1-3 Cable Connection of Type II Camera

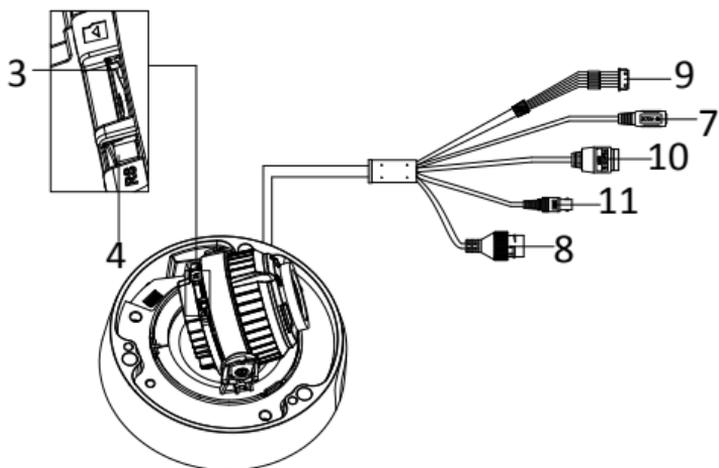


Figure 1-4 Cable Connection of Type III Camera

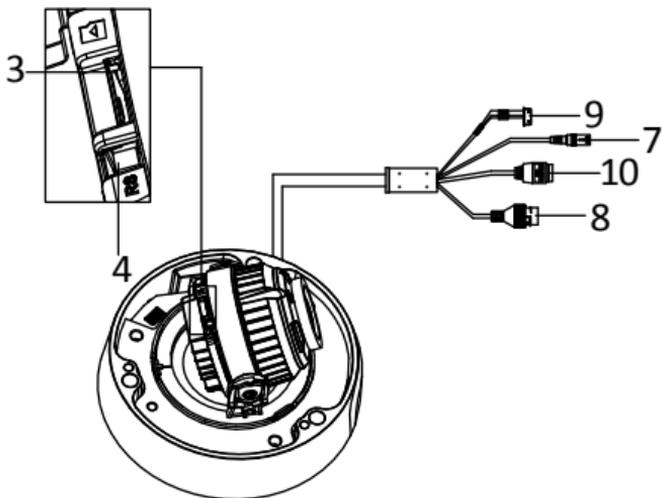


Figure 1-5 Cable Connection of Type IV Camera

Table 1-1 Overview of Camera

No.	Description
1	Black Liner
2	Bubble
3	Memory Card Slot
4	Reset Button
5	Adapter Plate
6	Lens
7	Power Interface
8	Network Interface
9	Alarm Interface
10	Audio Interface
11	Auxiliary Video Output

Notes:

- Power on the camera when pressing the RESET button, and press button for another 10 seconds to restore the default settings, including the user name, password, IP address, port No., etc.
- Only type III and type IV cameras support audio and alarm functions.

- 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 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 bubble will cause IR reflection. Do not remove the bubble film until the installation is finished. If there is dust or grease on the bubble, clean the bubble 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 bubble to camera body so that the foam ring and the bubble are attached seamlessly.

2.1 Install the Memory Card

This camera series supports memory card installation and the steps are similar.

Steps:

1. Disassemble the camera to uninstall the adapter plate, bubble and black liner from the camera in order.

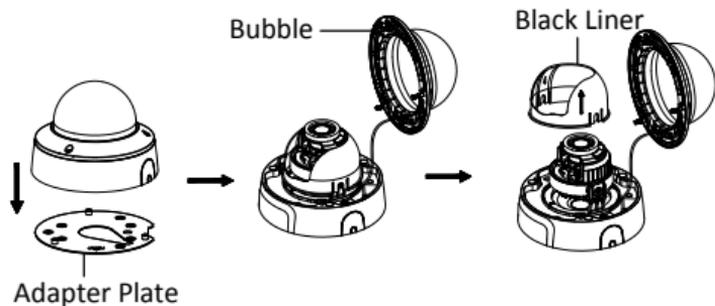


Figure 2-1 Disassemble the Camera

2. Rotate the camera body to completely expose the memory card slot.
3. Insert the memory card into the memory card slot, and push to get it mounted.

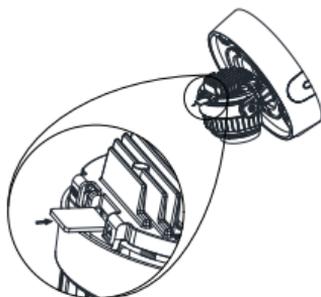


Figure 2-2 Install the Memory Card

4. (Optional) To unmount the memory card, push to eject it.

2.2 Camera Mounting

This camera series shares the similar installation steps, and we take type I camera as an example.

Before you start:

Before the camera installation, disassemble the camera to uninstall the adapter plate, bubble and black liner from the camera in order.

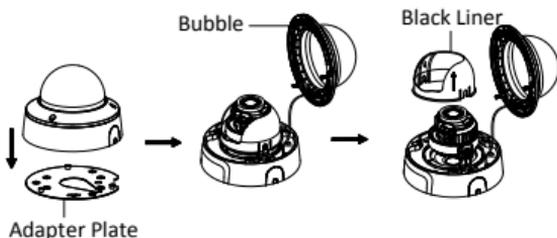


Figure 2-3 Disassemble the Camera

2.2.1 Ceiling Mounting

Steps:

1. Install the adapter plate to the ceiling with the screws.

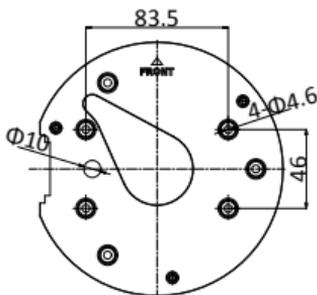


Figure 2-4 The Size of the Screw Holes

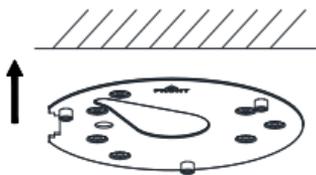


Figure 2-5 Install the Adapter Plate

2. Drill screw holes according to the adapter plate.
3. (Optional) If you want to route the cables inside the ceiling, drill a cable hole in the ceiling according to the adapter plate.
4. Route and connect the cables.
5. Align the holes and secure the camera with the supplied screws.

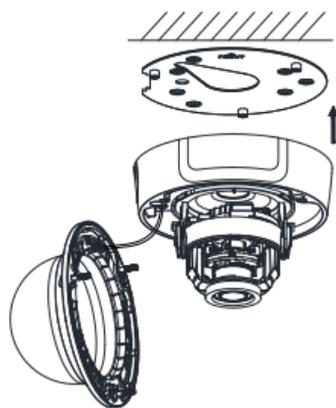


Figure 2-6 Secure the Camera

6. Rotate the lens to adjust the surveillance angle.

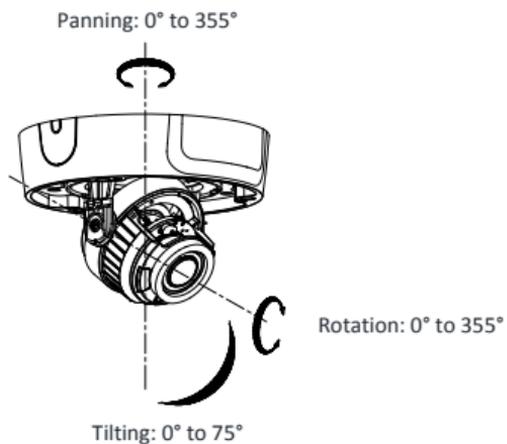


Figure 2-7 Adjust the Angle

7. Adjust the zoom and focus. Refer to **Section 2.3 Adjust Zoom and Focus** for the detailed information.
8. Install the inner black liner back to the camera.
9. Install the bubble back to the camera and secure it with screws.

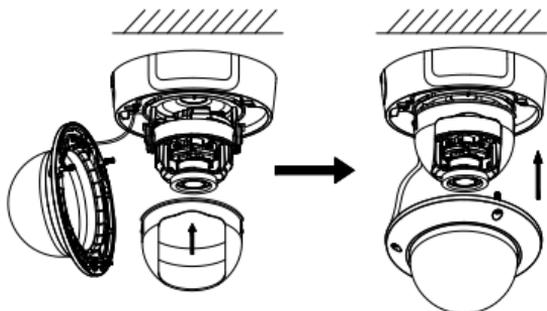


Figure 2-8 Secure Black Liner and Bubble

2.2.2 Wall Mounting

Before you start:

A wall mounting bracket is needed for the wall mounting and should be purchased separately. For the recommended models of the bracket, consult the technical support.

Steps:

1. Route the cables, install the mounting bracket on the wall, and secure the cap on the bracket.

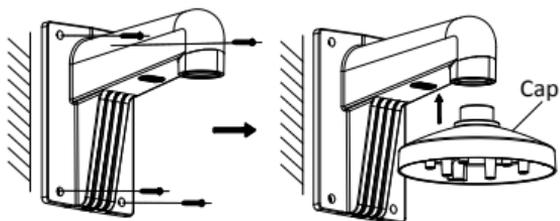


Figure 2-9 Install the Wall Mount Bracket

2. Install the adapter plate to the cap with screws.

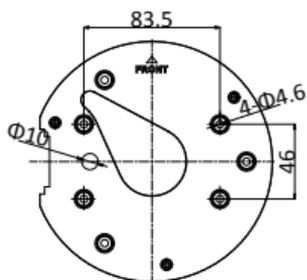


Figure 2-10 The Size of the Screw Holes

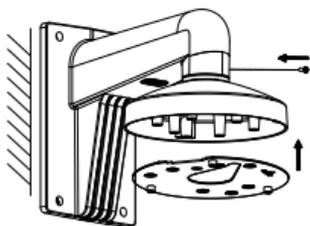


Figure 2-11 Install the Adapter Plate

3. Align the holes and secure the camera with the supplied screws.

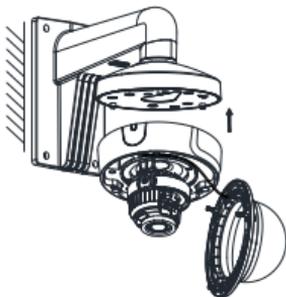


Figure 2-12 Secure the Camera

4. Rotate the lens to adjust the surveillance angle.

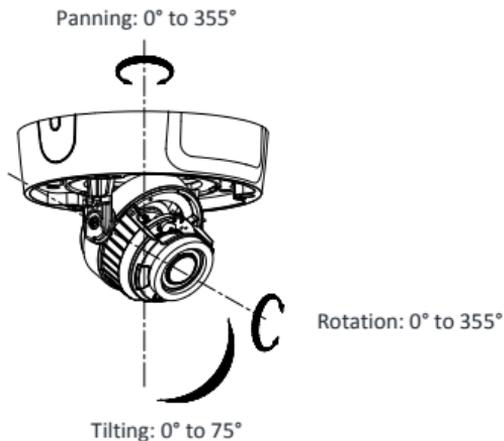


Figure 2-13 Adjust the Angle

5. Adjust the zoom and focus. Refer to **Section 2.3 Adjust Zoom and Focus** for the detailed information.
6. Install the inner black liner back to the camera.
7. Secure the bubble to the camera with screws.

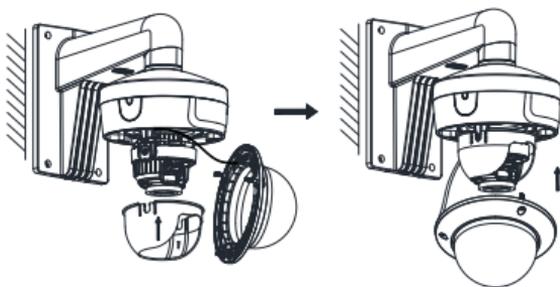


Figure 2-14 Secure Black Liner and Bubble

2.2.3 Pendant Mounting

Before you start:

A pendant mounting bracket is needed for the pendant mounting and should be purchased separately. For the recommended models of the bracket, consult the technical support.

Steps:

1. Route the cables, install the mounting bracket, and secure the cap on the bracket.

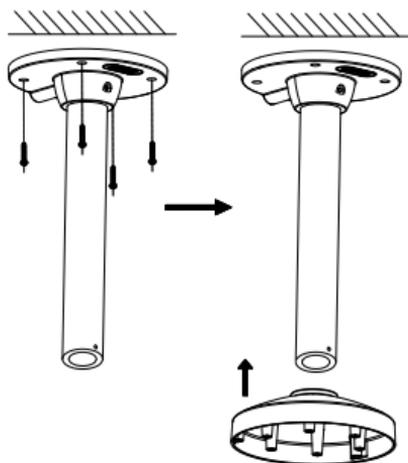


Figure 2-15 Install the Mount Bracket

2. Install the adapter plate to the cap with screws.

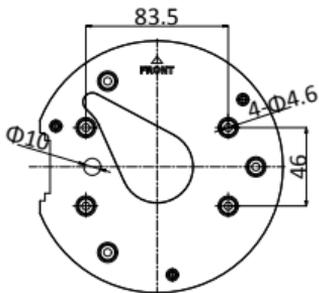


Figure 2-16 The Size of the Screw Holes

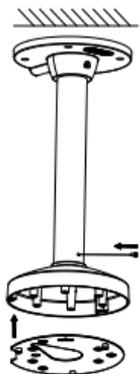


Figure 2-17 Install the Adapter Plate

3. Align the holes and secure the camera with the supplied screws.



Figure 2-18 Secure the Camera

4. Rotate the lens to adjust the surveillance angle.

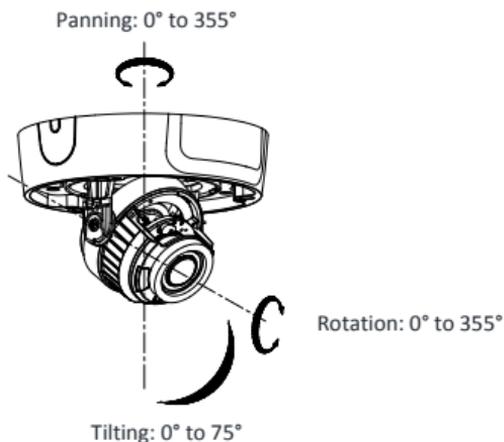


Figure 2-19 Adjust the Angle

5. Adjust the zoom and focus. Refer to **Section 2.3 Adjust Zoom and Focus** for the detailed information.
6. Install the inner black liner back to the camera.
7. Secure the bubble to the camera with screws.



Figure 2-20 Secure Black Liner and Bubble

2.3 Adjust Zoom and Focus

2.3.1 Manually Adjustment

Certain camera models have the lens that zoom and focus must be manually adjusted via zoom/focus lever. Use the zoom lever and focus lever to adjust the zoom and focus.

Steps:

1. Loosen the zoom lever and move the lever between T (Tele) and W (Wide) to obtain the appropriate angle of view.

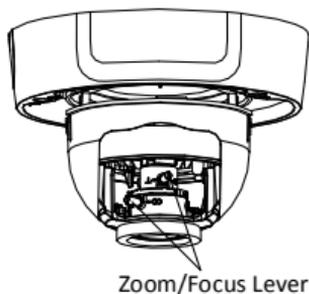


Figure 2-21 Zoom/Focus Lever

2. Tighten the zoom lever.
3. Loosen the focus lever and move the lever between F (Far) and N (Near) to obtain the optimum focus.
4. Tighten the focus lever.

2.3.2 Motor-Driven Lens

Some camera models are 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.

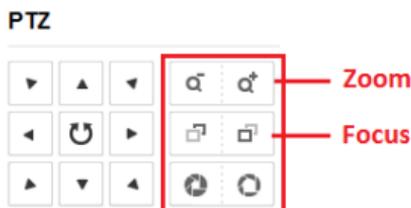


Figure 2-22 Zoom and Focus Adjustment via Web Browser

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

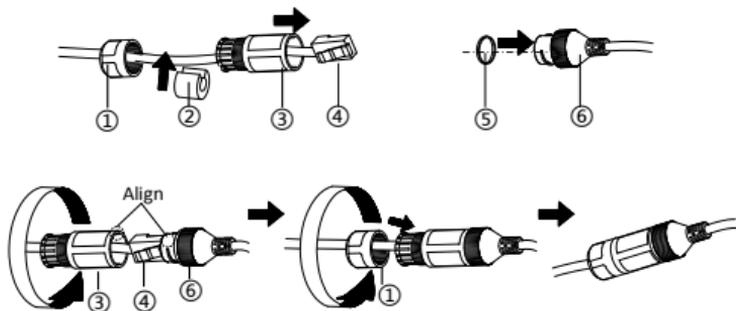


Figure 2-23 Install Waterproof Jacket

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.

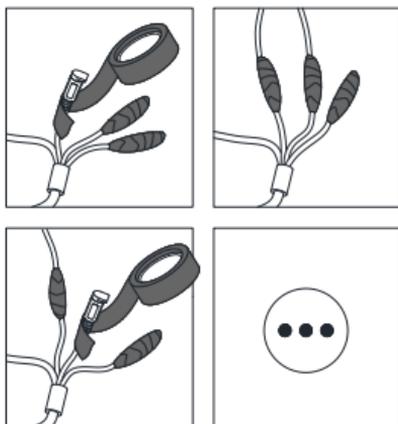


Figure 2-24 Waterproof Cables

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.





See Far, Go Further