



# VISIX S-Series Network Camera

## Hardware Installation Manual v3.1

Thank you for purchasing our product. If there are any questions or requests, please do not hesitate to contact your dealer. Please see [Section 2](#) of this guide for a list of all 3xLOGIC cameras covered in this manual.

This manual may contain technical inaccuracies or printing errors. The content is subject to change without notice. The manual will be amended if there are any hardware updates or changes.

**DISCLAIMER STATEMENT**

“Underwriters Laboratories Inc. (“UL”) has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock or casualty hazards as outlined in UL’s Standard(s) for Safety, UL60950-1. UL Certification does not cover the performance or reliability of the security or signaling aspects of this product. UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT.”

## Regulatory Information

### FCC Information

**FCC compliance:** This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- 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 Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, 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](http://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](http://www.recyclethis.info).

## Safety Instruction

These instructions are intended to ensure that the 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 be caused if any of these warnings are neglected.

**Cautions:** Injury or equipment damage may be caused if any of these cautions are neglected.

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



### Warnings:

- Please adopt the power adapter, which can meet the safety extra low voltage (SELV) standard. And source with 12 VDC or 24 VAC (depending on models) according to the IEC60950-1 and Limited Power Source standard.
- 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.)
- To reduce the risk of fire or electrical shock, do not expose this product to rain or moisture.
- This installation should be made by a qualified service person and should conform to all the local codes.
- Please install blackouts equipment into the power supply circuit for convenient supply interruption.
- Please make sure that the ceiling can support more than 5 Kgs of force if the camera is fixed to the ceiling.
- 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.)

**Cautions:**

- 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 a clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the sensor from dirt.
- Do not aim the camera lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the camera.
- The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor not be exposed to the laser beam.
- Do not place the camera in extremely hot, cold temperatures (the operating temperature should be between -30°C ~ 60°C, or -40°C ~ 60°C if the camera model has an “H” in its suffix), dusty or damp environment, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- Keep the camera away from water and any liquid.
- While shipping, the camera should be packed in its original packing.
- Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.

**NOTE:** For cameras that support IR, you are required to pay attention to the following precautions to prevent IR reflection:

- Dust or grease on the dome cover will cause IR reflection. Please do not remove the dome cover film until the installation is finished. If there is dust or grease on the dome cover, clean the dome cover with clean soft cloth and isopropyl alcohol.
- Make certain the installation location does not have reflective surfaces of objects too close to the camera. The IR light from the camera may reflect back into the lens causing reflection.
- The foam ring around the lens must be seated flush against the inner surface of the bubble to isolate the lens from the IR LEDs. Fasten the dome cover to camera body so that the foam ring and the dome cover are attached seamlessly.

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# 1 Introduction

The network camera is an embedded digital surveillance camera that combines the features of both the traditional analog camera and the encoder. With a built-in video server, the network camera is capable of providing real-time video stream compression, processing, video analysis and transmission simultaneously. Adopting the latest processing chip and hardware platform, the network camera can be widely applied to various surveillance and image processing systems with high reliability and stability. Please see [Section 2](#) of this guide for help locating the section of the manual that pertains to your specific camera.

## 1.1 Applications

The network camera can be used in many surveillance scenes., e.g.:

- Network surveillance for over-the-counter activities in banks, ATMs, supermarkets and factories.
- Remote surveillance systems for nursing homes, schools, casinos, hotels, jails, etc.
- Artificially Intelligent access control systems.
- Artificially Intelligent office building/residential compounds management systems.
- Unguarded power station, toll road and telecommunication base station surveillance systems.
- Warehouse monitoring systems.
- Surveillance systems for airports, railway stations, bus stops, etc.

## 1.2 Preparations

- Make sure the device in the package is in good condition and all the assembly parts are included.
- Make sure all the related equipment is powered off during installation.
- Check the specification of the products for the installation environment.
- Make sure the power supply is matched with your required voltage to avoid damage.
- If the product does not function properly, please contact your dealer or the nearest service center. Do not disassemble the camera for repair or maintenance by yourself.
- Make sure that the wall is strong enough to withstand three times the weight of the camera.

**NOTE:** For cameras that support IR, please adhere to the following precautions to prevent IR reflection:

- Dust or grease on the dome cover will cause IR reflection. Please do not remove the dome cover film until the installation is finished. If there is dust or grease on the dome cover, clean the dome cover with clean soft cloth and isopropyl alcohol.
- Make sure that there is no reflective surface too close to the camera lens. The IR light from the camera may reflect back into the lens causing reflection.
- The foam ring around the lens must be seated flush against the inner surface of the bubble to isolate the lens from the IR LEDs. Fasten the dome cover to camera body so that the foam ring and the dome cover are attached seamlessly.

## 2 Camera Navigation Key

3xLOGIC offers a variety of network camera styles, types and models. The below table features all cameras in 3xLOGIC's product offering which are covered in this manual. Find the model of your camera in the following list and proceed to the corresponding section of the manual for installation instructions.

Camera Style	Model
Full Body Camera	<a href="#">VX-3M-F-AWD</a> <a href="#">VX-3S-FE-POE (New)</a>
Indoor Dome Camera	<a href="#">VX-2M-D2-RIA</a> <a href="#">VX-3M-D2-RIAWD</a> <a href="#">VX-2S-D3-RIA (New)</a> <a href="#">VX-2V-MD-RIWH (New)</a>
Mini-Dome Camera	<a href="#">VX-3P28-MD-IA</a> <a href="#">VX-3P4-MD-I</a> <a href="#">VX-3P28-MD-I (DC)</a> <a href="#">VX-4S28-MD-I (New)</a>
Outdoor Dome Camera	<a href="#">VX-2M-OD2-RIAH</a> <a href="#">VX-SMBK-D</a> <a href="#">VX-3S28-OD-I-3</a> <a href="#">VX-3M-OD2-RIAWD</a> <a href="#">VX-6S-OD3-RIAWD</a> <a href="#">VX-3S-OD3-RIAH (New)</a>
180° Panoramic Camera	<a href="#">VX-8S-180-AWD</a>
Bullet Camera	<a href="#">VX-3P28-MB-I</a> <a href="#">VX-3P4-MB-I (DC)</a> <a href="#">VX-4S4-MB-I (New)</a> <a href="#">VX-SMBK-B</a> <a href="#">VX-3PV-B-I</a> <a href="#">VX-3M-B-RIAWD</a> <a href="#">VX-3M20-B-RIAWD</a>

## 3 Full Body Camera Installation

### 3.1 VX-3M-F-AWD, VX-3S-FE-POE

#### CAMERA DESCRIPTION

The overview of Full Body Camera is shown below:

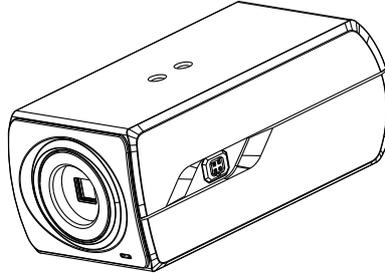


Figure 3-1 Overview (1)

The overview of the components and the interface are shown below:

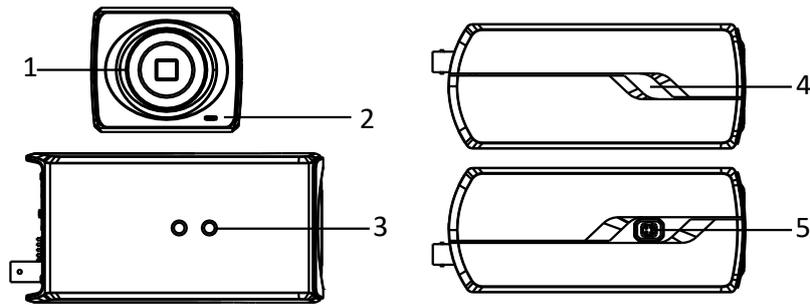


Figure 3-2 Overview (2)

The interfaces on the rear panel are shown below:

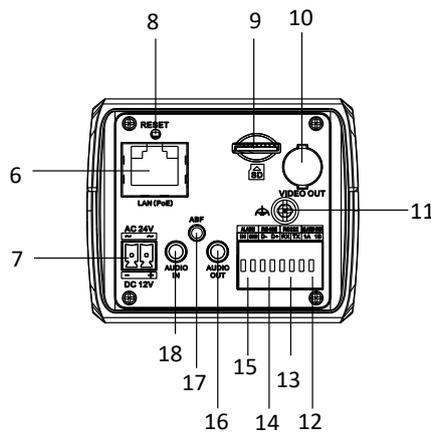


Figure 3-3 Overview (3)

Number	Description	Number	Description
1	Lens Mount	2	MIC
3	¼-20 UNC Screw Hole	4	Status Indicator
5	Auto-iris Interface	6	LAN(PoE)
7	Power Outlet	8	Reset
9	Micro SD Card Slot	10	Video Out
11	Grounding	12	1A, 1B: Alarm Out
13	RX, TX: RS-232	14	D-, D+: RS-485
15	IN, GND: Alarm In	16	Audio Out
17	ABF	18	Audio In

**NOTE:** Press and hold RESET for 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

The auto-iris interface is shown below:

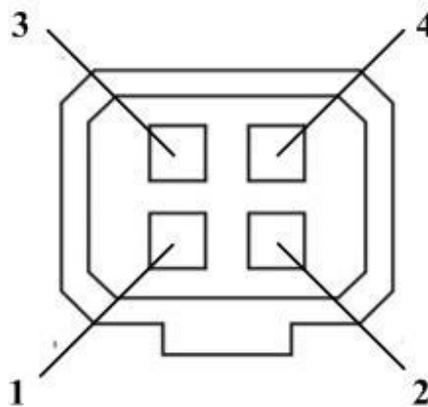


Figure 3-4 Auto-iris Interface

Number	DC-driven
1	Damp-
2	Damp+
3	Drive+
4	Drive-

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

## AVAILABLE MOUNTS

- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

This camera can also be used with any standard CCTV Camera bracket for wall and ceiling mount application.

## INSTALLATION — CEILING MOUNT

### Steps:

- 1). Install the ceiling mount to the ceiling with the supplied expansion screws.

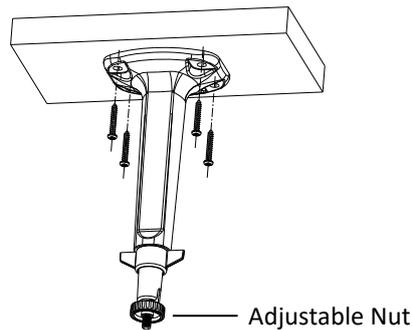


Figure 3-5 Installing the Mount

- 2). Fit the lens (not supplied) to the camera and rotate it to get it tightened.

**NOTE:** Install the adapter ring to the lens interface if a C-mount lens is used. A manual-iris lens can be directly installed to the camera without plugging the power cable of the auto-iris into the auto-iris interface.

- 3). Plug the auto-iris cable into the auto-iris interface.

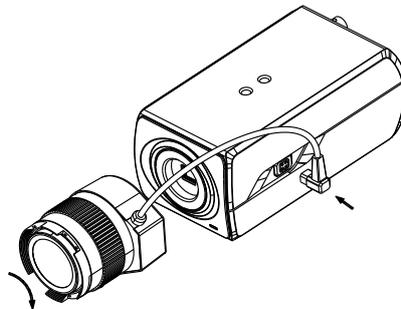


Figure 3-6 Install the Lens

- 4). Align the screw threading on the top of the camera with the hole on the ceiling mount arm and use the tightening screw to affix the camera to the bracket.
- 5). Adjust the surveillance angle.
  - a. Loosen the pan nut to adjust the pan angle [0°-360°].
  - b. Loosen the knob on the ceiling mount to adjust the tilt angle [0°-90°].

- 6). Adjust the Lens
  - a. Connect the VIDEO OUT interface of the camera to the debugging monitor.
  - b. Adjust the Zoom Lever and Focus Lever to obtain the desired image on the monitor.

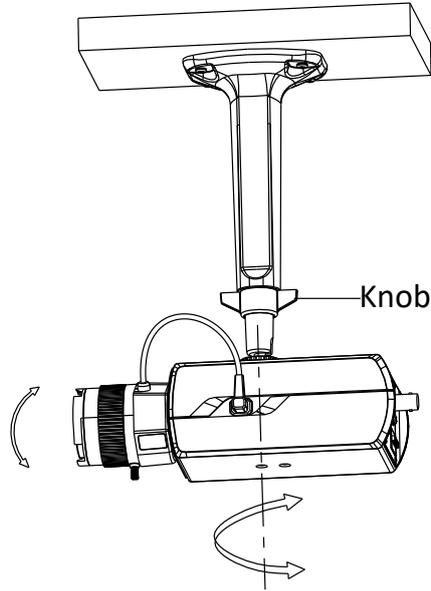


Figure 3-7 Install the Camera to the Mount and Adjust the Angle

#### INSTALLATION — WALL MOUNT

**Steps:**

- 1). Install the lens (not supplied) to the camera and rotate it to fasten it.
- 2). Plug the auto-iris cable into the auto-iris interface.

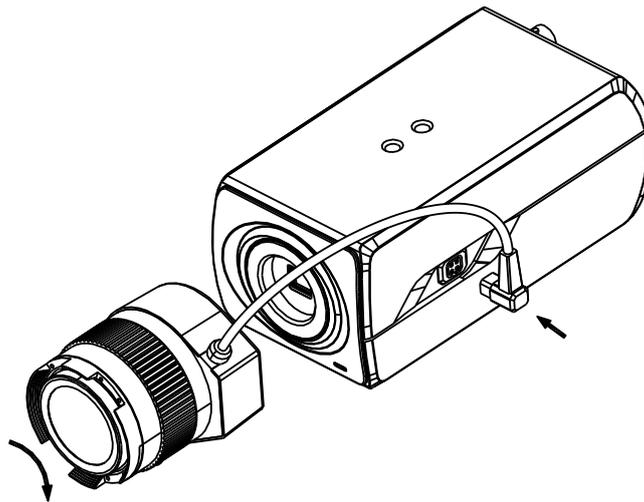


Figure 3-8 Install the Lens

- 3). Loosen the lock screw on the mount and remove the tilt adjust table from the wall mount.

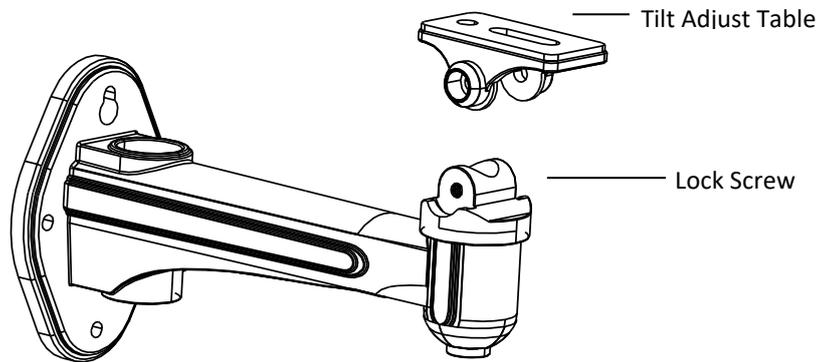


Figure 3-9 Remove the Tilt Adjust Table

- 4). Fit the removed tilt adjust table to the camera, and secure it with two screws.

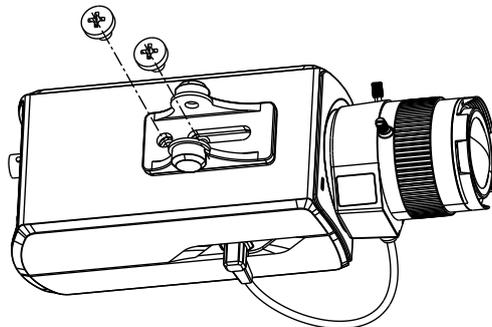


Figure 3-10 Install the Tilt Adjust Table

- 5). Secure the wall mount to the wall with the supplied expansion screws.

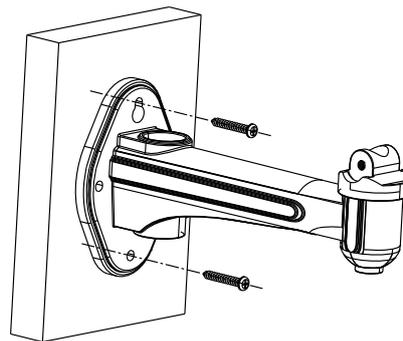


Figure 3-11 Install the Wall Mount

- 6). Install the camera to the wall mount and tighten the two lock screws.
- 7). Adjust the surveillance angle.
  - a. Loosen the pan nut to adjust the pan angle [0°-360°].
  - b. Loosen the knob on the ceiling mount to adjust the tilt angle [0°-±45°].

- 8). Adjust the Lens
  - a. Connect the VIDEO OUT interface of the camera to the debugging monitor.
  - b. Adjust the focus lever to obtain the desired image on the monitor.

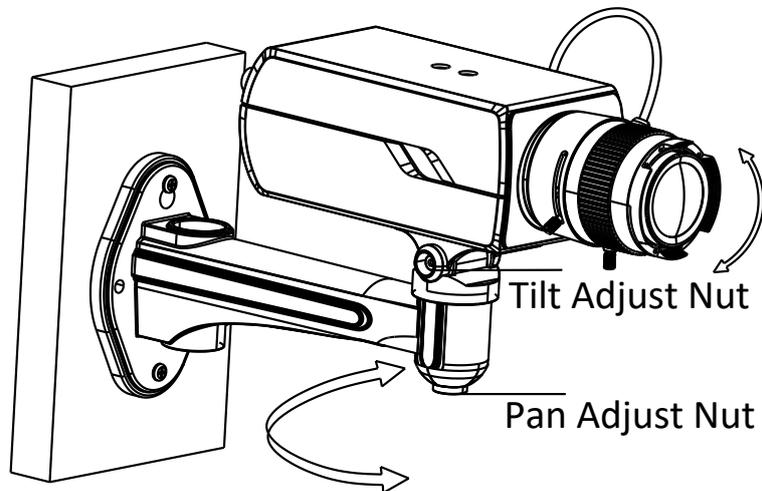


Figure 3-12 Adjust the Surveillance Angle

#### INSTALLATION — MICRO SD CARD

**Steps:**

- 1). Insert the SD card to the SD card slot to get it installed.
- 2). Push the inserted SD card slightly to eject it using the spring-loaded ejection function.

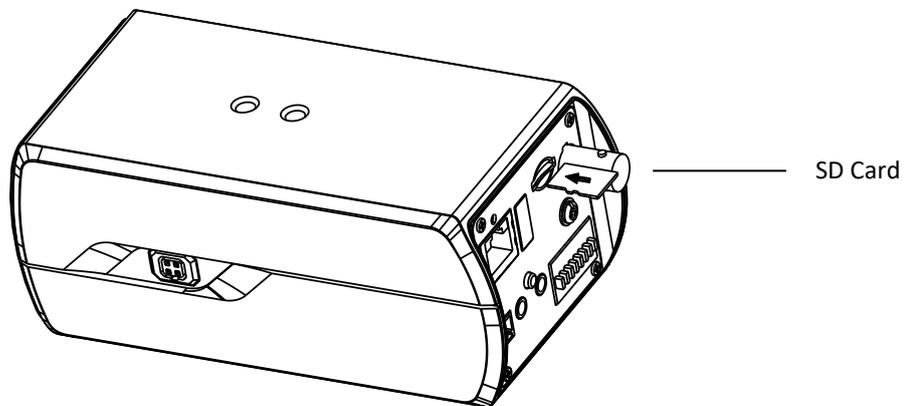


Figure 3-13 Install the SD Card

## 4 Indoor Dome Camera Installation

### 4.1 VX-2M-D2-RIA, VX-3M-D2-RIAWD, VX-2S-D3-RIA

#### CAMERA DESCRIPTION

The overview of the dome camera is shown below:

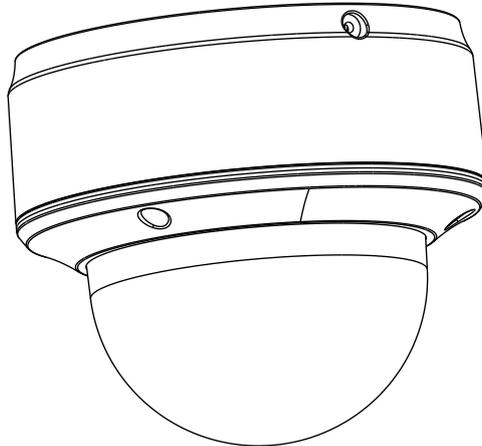


Figure 4-1 Overview

The overview of the components and the interface are shown below:

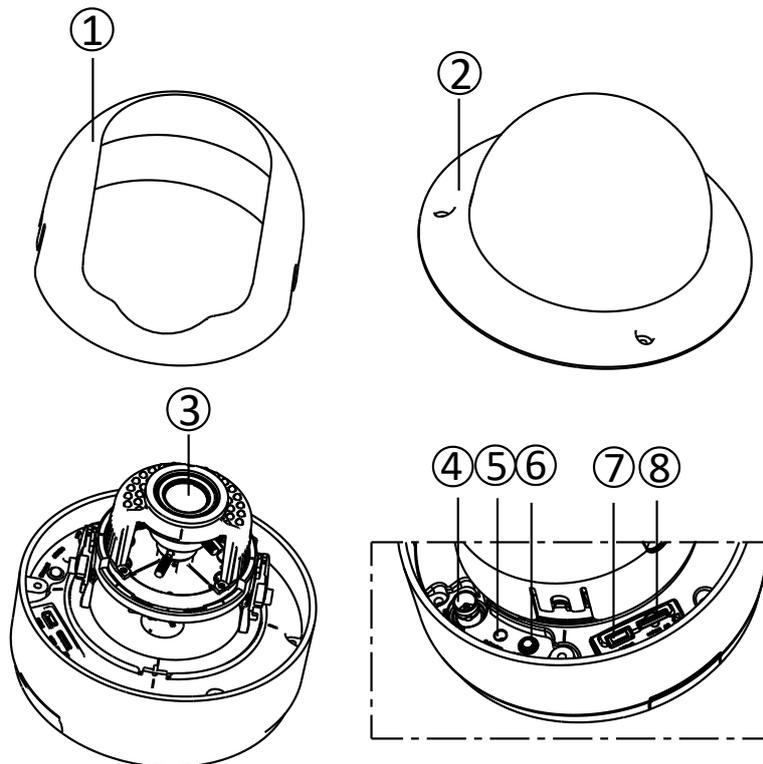


Figure 4-2 Overview (2)

The interfaces on the rear panel are shown below:

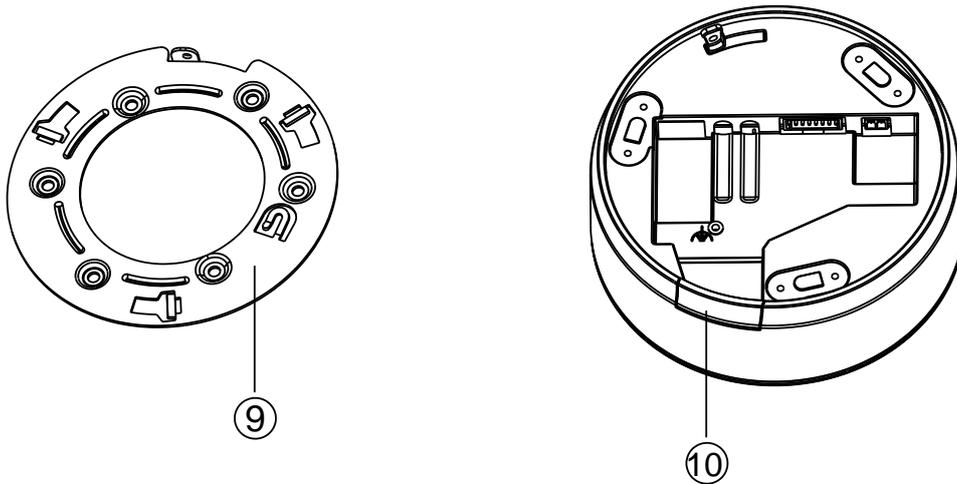


Figure 4-3 Overview (3)

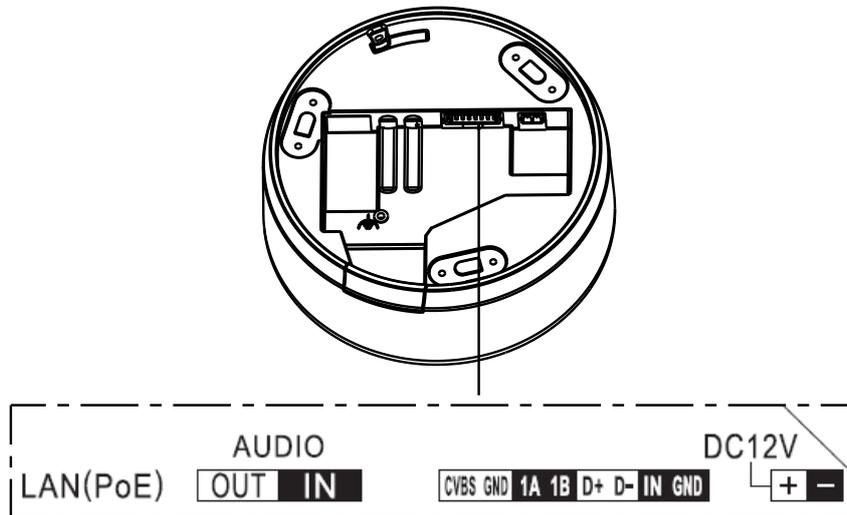


Figure 4-4 Overview (4)

Table 1-1 Description of Overview (2~3)

Number	Description	Number	Description
1	Black Liner	2	Bubble
3	Lens	4	BNC Interface
5	Reset	6	Status Indicator
7	Test Serial Port	8	Micro SD Card Slot
9	Adapter Plate	10	Side Outlet

Table 1-2 Description of Overview (4)

Name/Label	Description
LAN (PoE)	10M/100M Self-adaptive Ethernet Port(PoE Supported)
AUDIO OUT/IN	Audio Out/In
CVBS, GND	Auxiliary video output
1A, 1B	Alarm Out
D+, D-	RS-485 Interface
IN, GND	ALARM IN
DC12V	Power Supply Interface (12 VDC)

**NOTE:** Press and hold RESET for 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

**AVAILABLE MOUNTS**

- D2 Ceiling Flush Mount (3xLOGIC Product #: [VX-FM-D2](#))
- D2 Wall Mount (3xLOGIC Product #: [VX-WM-D2](#))
- D2 Wall Mount w/ Junction Box (3xLOGIC Product #: [VX-WMJ-D2](#))
- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

**INSTALLATION — CEILING MOUNT**

**Steps:**

- 1). Drill the screw holes and the cable hole according to the supplied drill template.

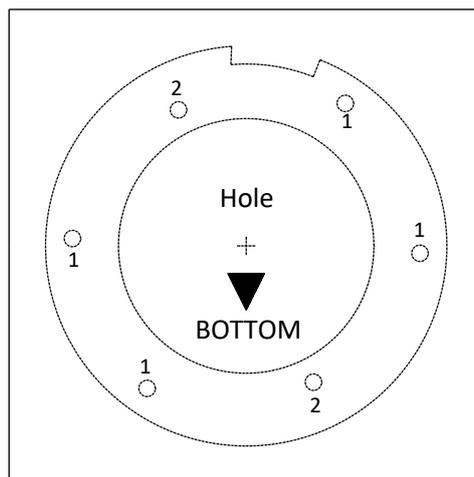


Figure 4-5 Drill Template

**NOTE:** (Optional) Routing the cable from the side outlet instead of the cable hole drilled on the ceiling is possible. Use pliers to remove the part shown in Figure 4-6, and simply route the cables through the side outlet.

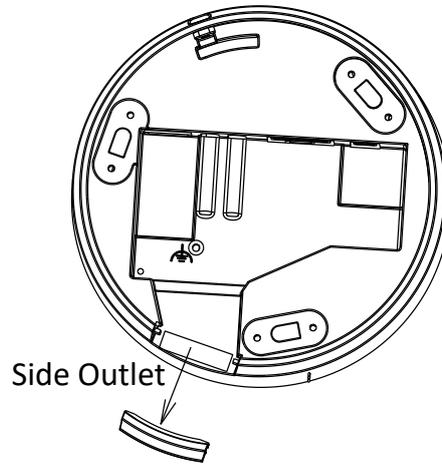


Figure 4-6 Side Outlet

- 2). Attach the adapter plate to the ceiling with the supplied screws.

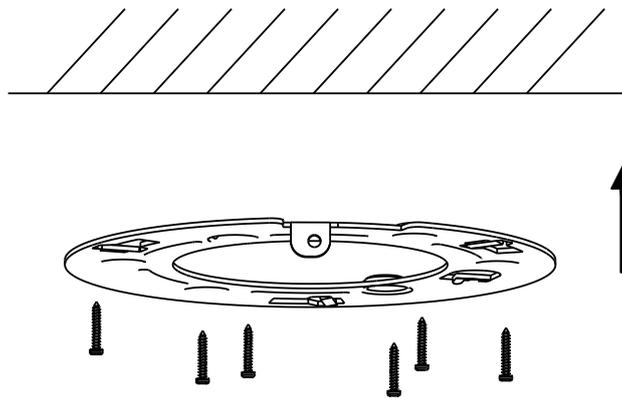


Figure 4-7 Install the Adapter Plate

- 3). Align the mounting base with the adapter plate and rotate the mounting base counter-clockwise to affix it to the adapter plate, and then secure it by tightening the lock screw.

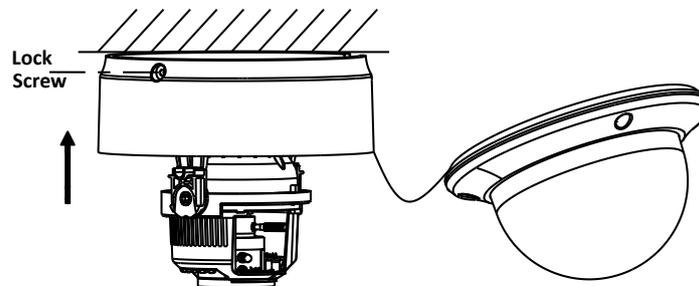


Figure 4-8 Install the Mounting Base

- 4). Adjust the surveillance angle according to the figure below. Panning angle [0~80°], tilting angle [0~355°], and azimuth angle of the lens [0~355°].

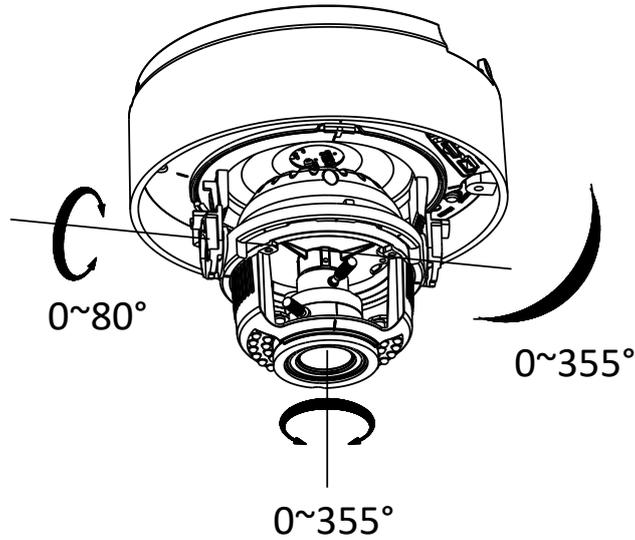


Figure 4-9 3-axis Adjustment

- 5). Connect the VIDEO OUT interface of the camera to the debugging monitor.
- 6). To begin, set the iris type to MANUAL.
- 7). Adjust the No.1 Zoom Lever (T~W) to select a proper angle of view.
- 8). Adjust the NO.2 Focus Lever (F~N) to obtain the desired image on the monitor.
- 9). Set the iris type to MANUAL if the environment has stable illumination. Set the iris type to AUTO if the environment has varying levels of illumination.

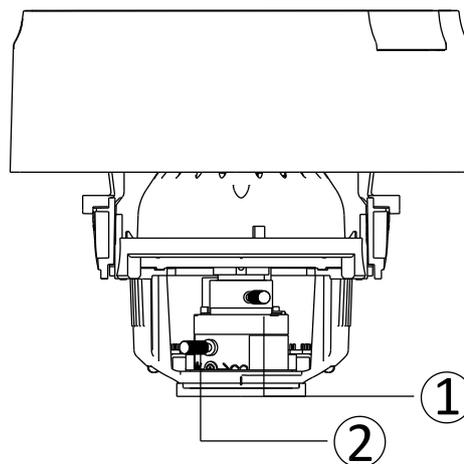


Figure 4-10 Adjust the Lens

**NOTE:** To digitally adjust the zoom and focus, visiting the device’s web interface and adjust these settings from the PTZ control interface.



Figure 4-11 Zoom and Focus Adjustment of Electronic Lens

- 10). Attach the black liner to the dome drive.
- 11). Attach the bubble to the dome drive and rotate to tighten it

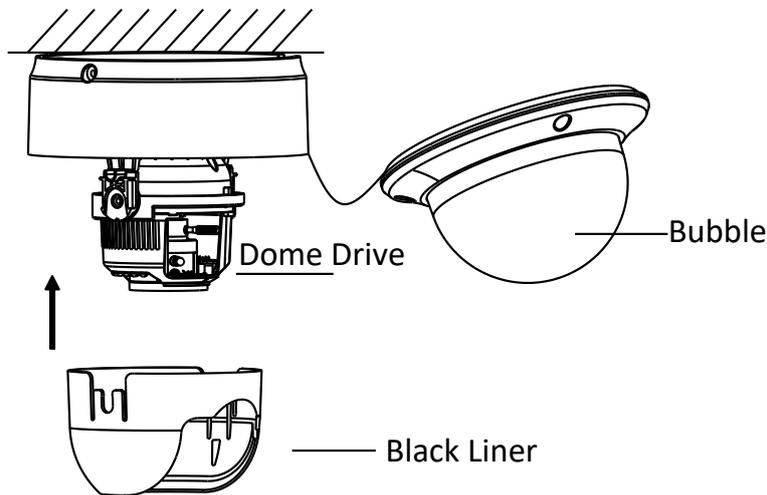


Figure 4-12 Install the Black Liner and Bubble

- 12). Tighten the lock screw to complete the installation.

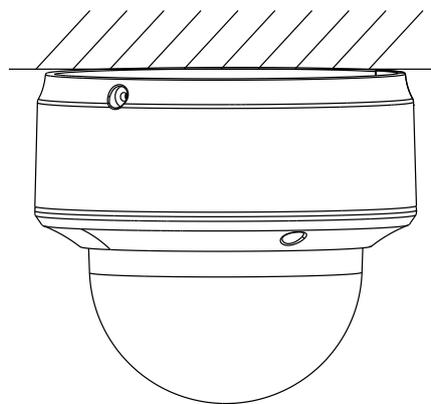


Figure 4-13 Complete the Installation

## 4.2 VX-2V-MD-RIWH

### CAMERA DESCRIPTION

Camera components are outlined below:

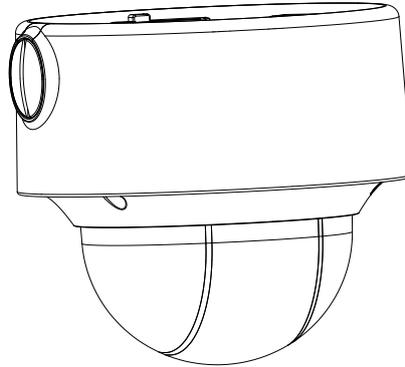


Figure 1-1 Overview

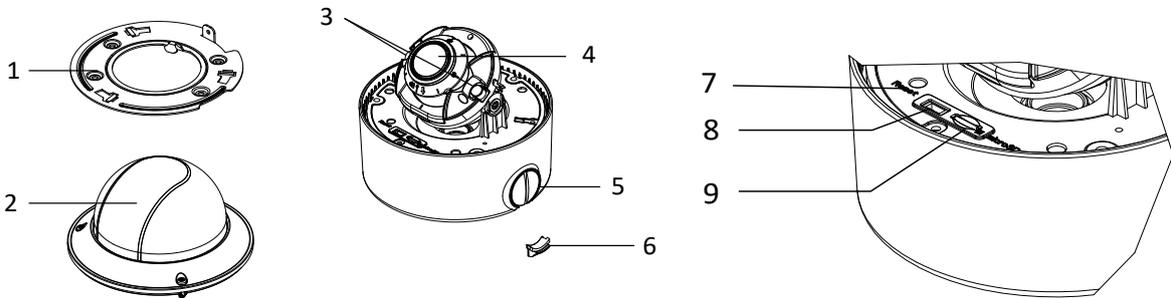


Figure 4-14 Camera Components (1)

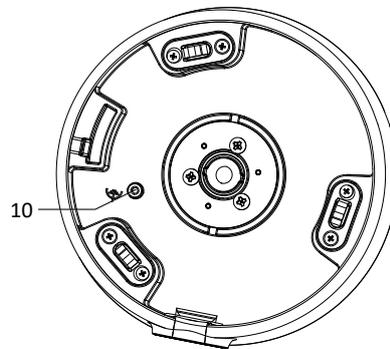


Figure 4-15 Camera Components (2)

No.	Description	No.	Description
1	Mounting base	2	Dome cover
3	IR	4	Lens
5	Water-proof plug	6	Side outlet cover
7	Reset button	8	Serial port
9	Memory card slot	10	GND

**Note:**

Press RESET for 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

The following figures and tables describe the cables included with this camera.

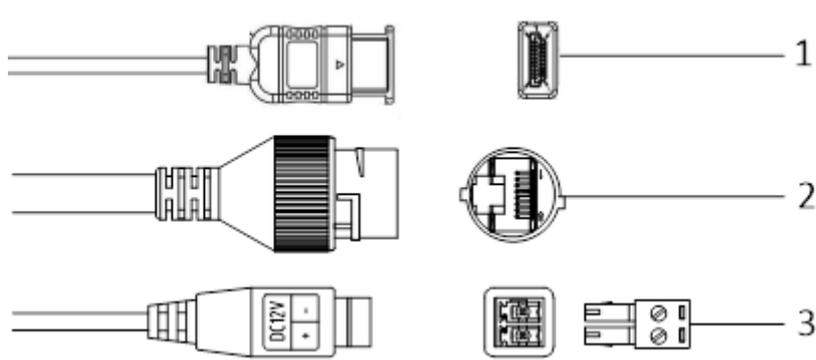


Figure 4-16 Overview of Cables (1)

No.	Description
1	HDMI Out (Video Out, Female Connection)
2	10M/100M self-adaptive Ethernet cable and RJ45 interface (PoE supported)
3	Power supply cable and terminal block interface

#### AVAILABLE MOUNTS

- VX-2V-MD-RIWH Wall Mount (3xLOGIC Product #: [VX-WM-127](#))
- VX-2V-MD-RIWH Pendant Mount (3xLOGIC Product #: [VX-PM-127](#))
- VX-2V-MD-RIWH Ceiling Flush Mount Adaptor (3xLOGIC Product #: [VX-FM-127](#))
- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

#### INSTALL PREPARATION - DISASSEMBLING

**Steps:**

1. Loosen the three screws on the edge of the dome cover with the screw driver.
2. Lift and put aside the dome cover to disassemble the camera.

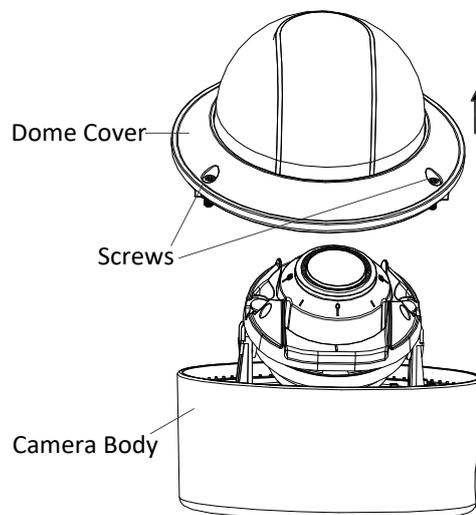


Figure 4-17 Remove the Dome Cover

### INSTALL PREPARATION - MEMORY CARD INSTALLATION

**Steps:**

1. Rotate the camera body to completely expose the memory card slot.
2. Insert the memory card into the memory card slot, and push it in to mount the card.

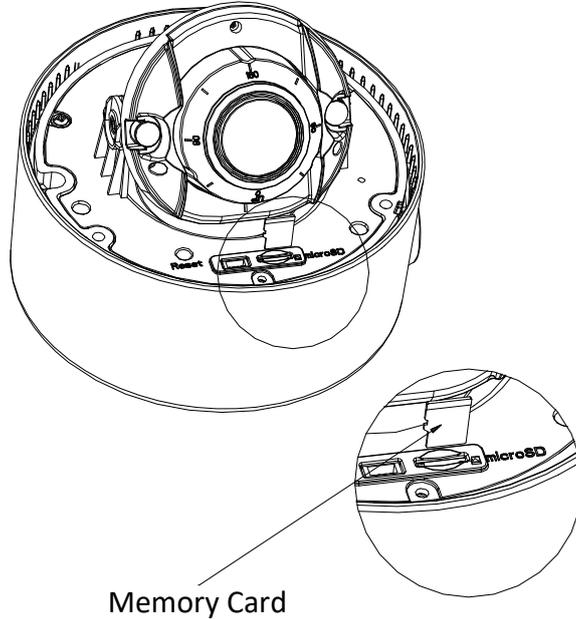


Figure 4-18 Install the Memory Card

3. (Optional) To unmount the memory card, push on the card to eject.

### INSTALLATION - CEILING MOUNTING

1. Attach the supplied drill template to the location where you want to install the camera.
2. Drill the screw holes and the cable hole according to the drill template as the figure below.

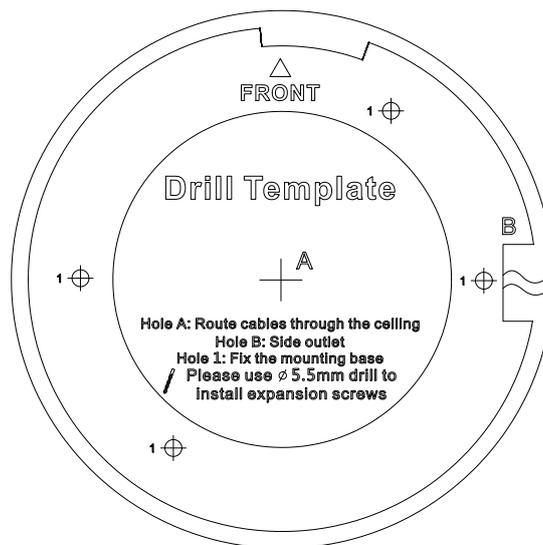


Figure 4-19 Drill Template

- The drill template may vary according to different camera models.

**Note:** ■ (Optional) Routing the cable from the side outlet instead of the cable hole drilled on the ceiling is supported.

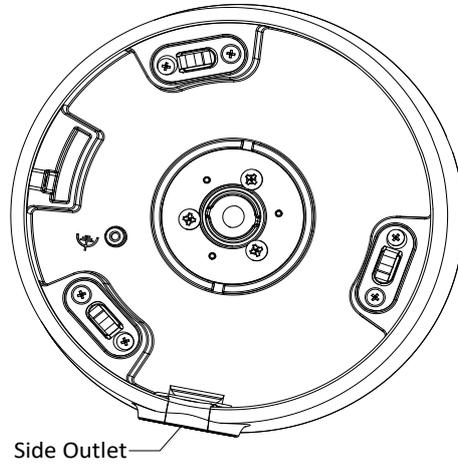


Figure 4-20 Side Outlet

3. Fix the mounting base to the ceiling with the supplied screws.

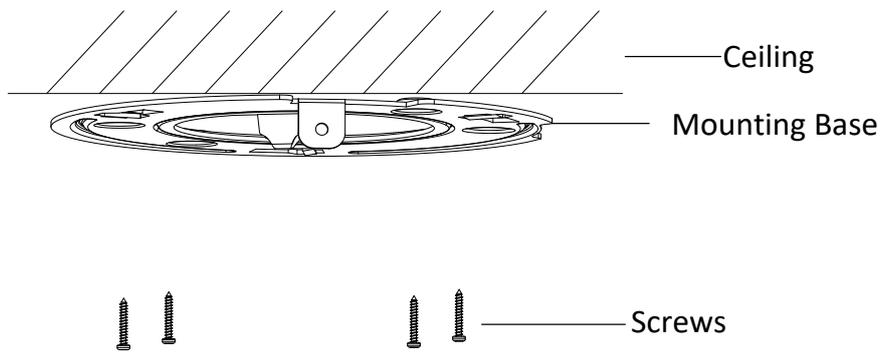


Figure 4-21 Install the Mounting Base

4. Align the camera body with the mounting base and rotate the camera body counterclockwise to get it fitted with the mounting base.

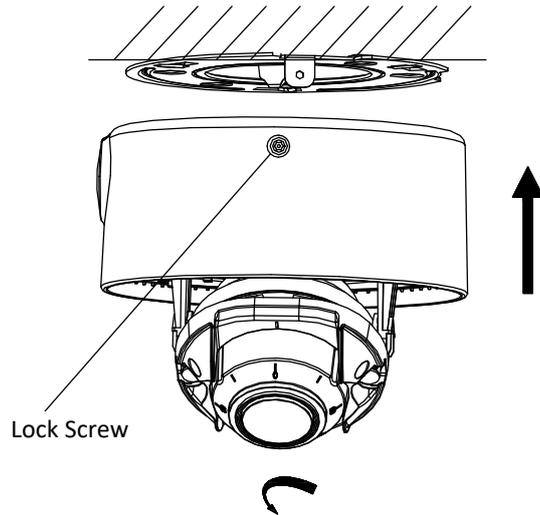


Figure 4-22 Install the Camera Body

5. Connect the video output connector to the monitor and connect the power connector to the power supply to adjust the surveillance angle and image.
6. Adjust the surveillance angle and image according to the figures below.
  - 1). 3-axis Adjustment

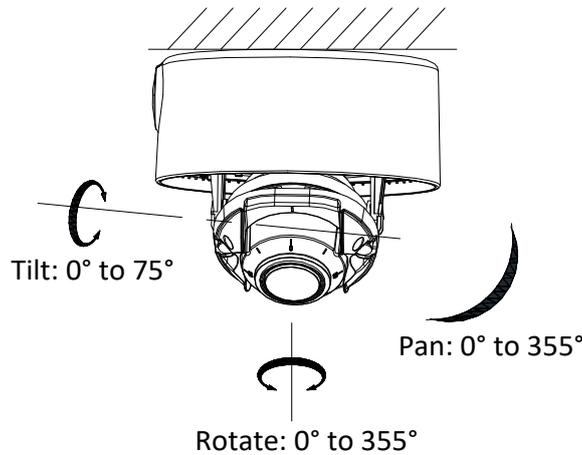


Figure 4-23 3-axis Adjustment

**7. Zoom and Focus Adjustment:** Cameras of this series are equipped with a motor-driven lens. You can adjust the zoom and focus level on PTZ control panel by visiting the camera via web browser or client software. See Section 2 for information on identifying and setting up the camera on your network. Please reference the VIGIL Client User Guide or the 3xLOGic VISIX V-Series Gen II User Manual for information on adjusting zoom and focus from VIGIL Client or from the camera browser interface respectively.

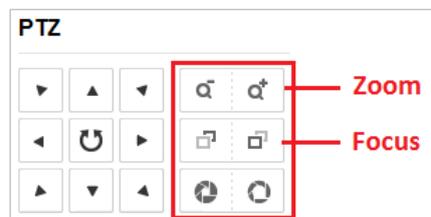


Figure 4-24 Zoom and Focus Adjustment via Web Browser

- Attach the dome cover to the camera body. Fix it with screwdriver to get tightened as shown in the figures below.

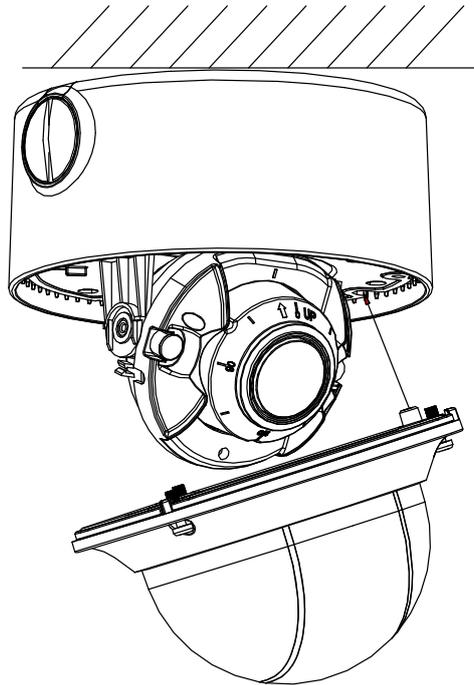


Figure 4-25 Install the Dome Cover

- Tighten the lock screw to complete the installation.

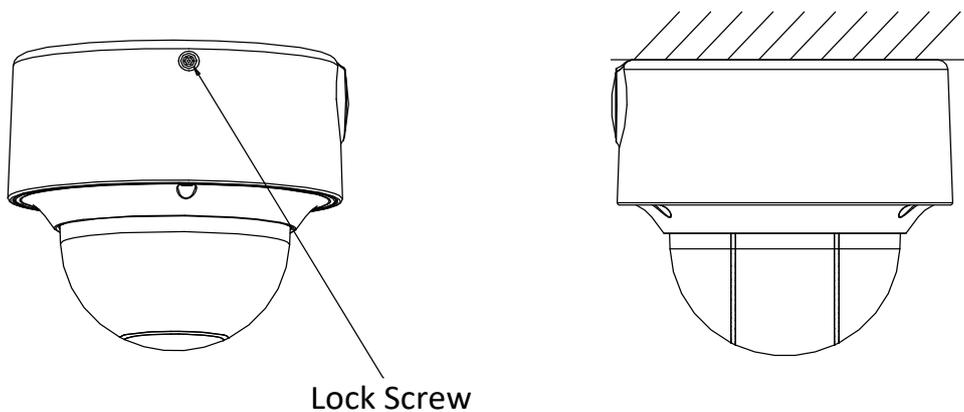


Figure 4-26 Complete the Installation

## INSTALLATION - WALL MOUNTING

### **Before you start:**

A wall mounting bracket is not included in package. If you choose this mounting type, you have to prepare a bracket first. The wall mounting bracket shown below is only for demonstration.

**Note:** When choosing a wall mounting bracket, you must pay attention to the size of the cap which should match the mounting base of the camera.

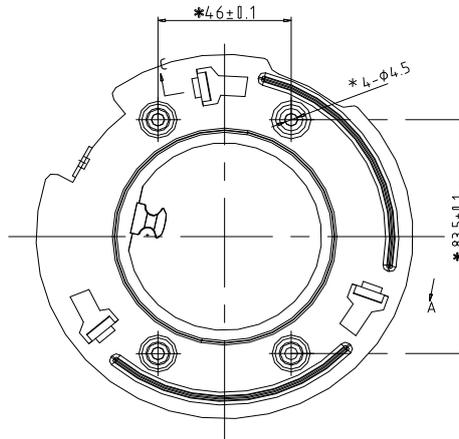


Figure 4-27 Size of the Mounting Base

**Steps:**

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

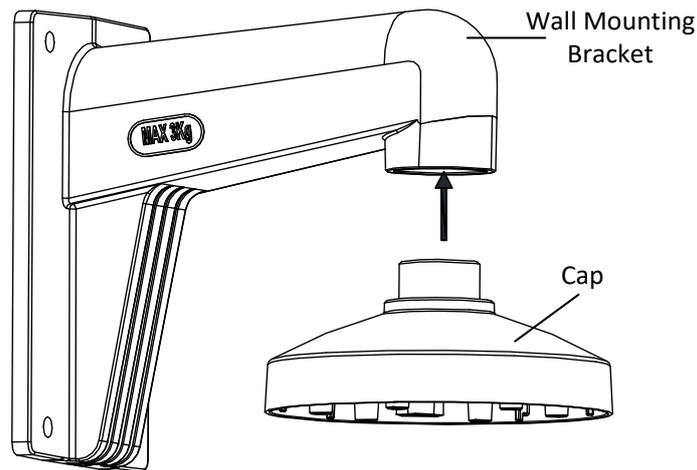


Figure 4-28 Install Wall Mounting Bracket

2. Align the screw holes of the mounting base with the corresponding screw holes of the cap.

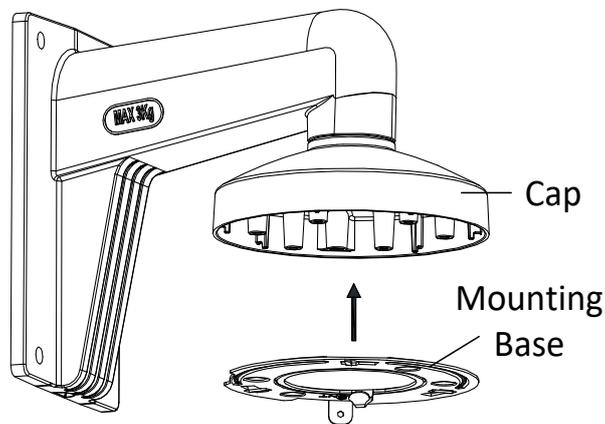


Figure 4-29 Install the Mounting Base

3. Secure the mounting base to the cap with screws.
4. Align the camera with the mounting base, and secure the camera with screws.

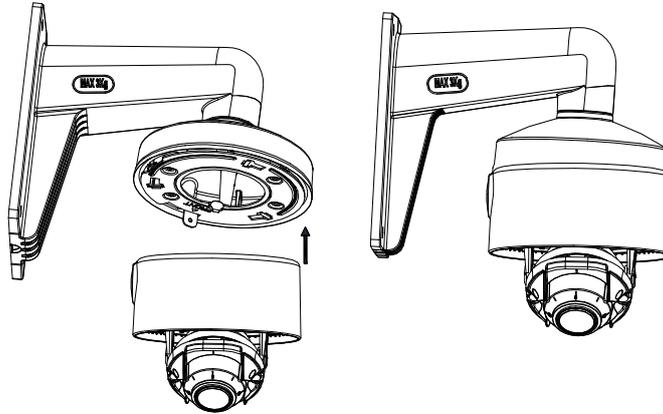


Figure 4-30 Secure the Camera

5. Connect the video output connector to the monitor and connect the power connector to the power supply to adjust the surveillance angle and image.
6. Adjust the image and focus.
7. Install the dome cover back to the camera and tighten the lock screw to complete the installation.

**INSTALLATION - PENDANT MOUNTING**

**Before you start:**

The Pendant mounting bracket is not included in package. If you choose this mounting type, you have to prepare a bracket first. The pendant mounting bracket shown below is only for demonstration.

**Note:** When choosing a pendant mounting bracket, you must pay attention to the size of the cap which should match the mounting base of the camera.

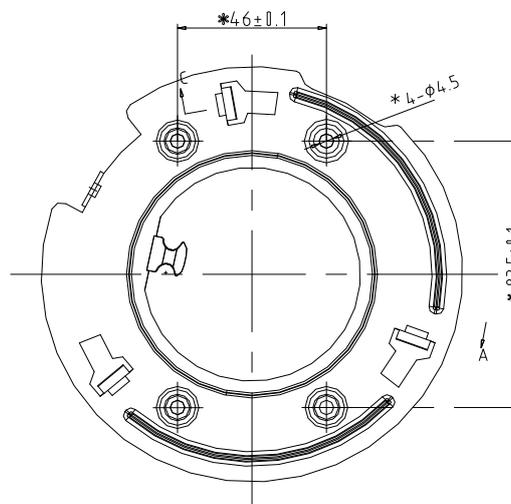


Figure 4-31 Size of the Mounting Base

**Steps:**

1. Route the cables and install the pendant mounting bracket. Secure the cap on the bracket.

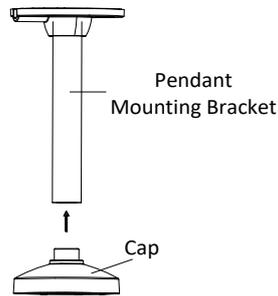


Figure 4-32 Install the Pendant Mounting Bracket

2. Align the screw holes of the mounting base with the corresponding screw holes of the cap.

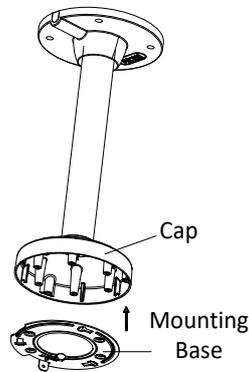


Figure 4-33 Install the Mounting Base

3. Secure the mounting base to the cap with screws.
4. Align the camera with the mounting base, and secure the camera with screws.

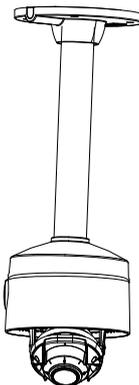


Figure 4-34 Secure the Camera

5. Connect the video output connector to the monitor and connect the power connector to the power supply to adjust the surveillance angle and image.
6. Adjust the image and focus.
7. Install the dome cover back to the camera and tighten the lock screw to complete the installation.

**(OPTIONAL) INSTALLATION OF NETWORK CABLE WATER-PROOF JACKET**

**Purpose:**

If the camera is installed outdoors, you can install a waterproofing jacket for the network cable after the camera is secured to the installation surface.

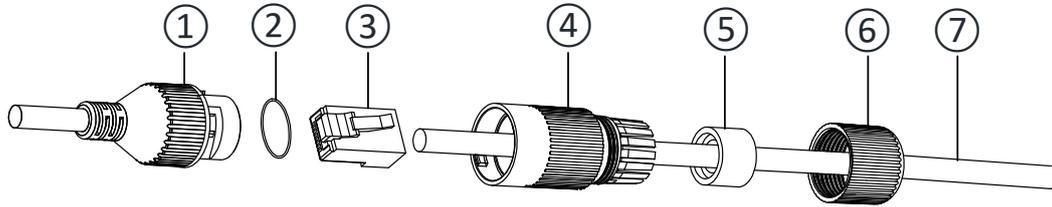


Figure 4-35 Water-proof Accessory Components

Table 1-1 Components

No.	Components
1	Camera’s Network Interface Socket
2	O-Type Gasket
3	Network Plug
4	Waterproof Endcap
5	Waterproof Rubber Gasket
6	Lock Nut
7	Network Cable from Router/Switch

**Steps:**

1. Feed the plugless network cable ⑦ through the lock nut ⑥, waterproof rubber gasket ⑤ (the rubber gasket inset ridge must face the waterproof endcap), and the waterproof endcap ④ in order.
2. Crimp an RJ-45 network plug ③ onto the end of the cable, taking care to insert the twisted pairs of wires in correct order.
3. Place the O-type gasket ② onto the end of the camera’s network interface socket ①.
4. Insert the network plug ③ into the camera’s network interface socket ①.
5. Insert the waterproof rubber gasket ⑤ into the waterproof endcap ④, and secure lock nut ⑥ with the waterproof endcap ④.
6. Align the snap on the waterproof endcap ④ with the notch on the camera’s network interface socket ①, and then secure the waterproof endcap ④ to the camera’s network interface socket ① to finish installation.

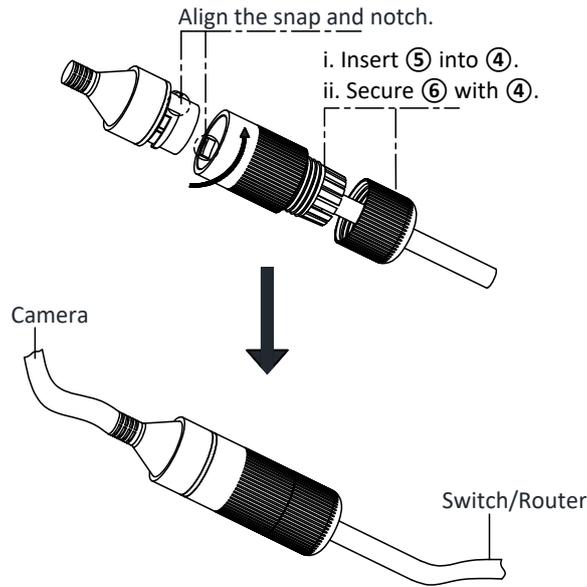


Figure 4-36 Water-proof Accessory Installation

### (OPTIONAL) INSTALLATION OF WATERPROOF TAPE

**Purpose:**

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

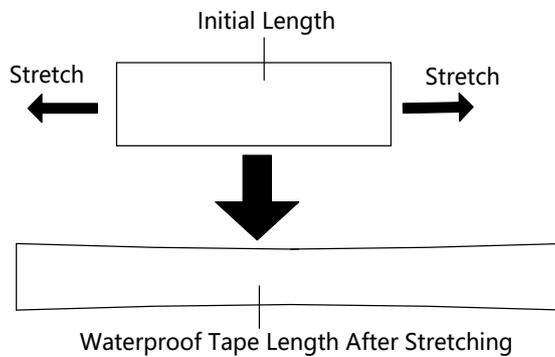


Figure 4-37 Stretch the Water-proof Tape

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

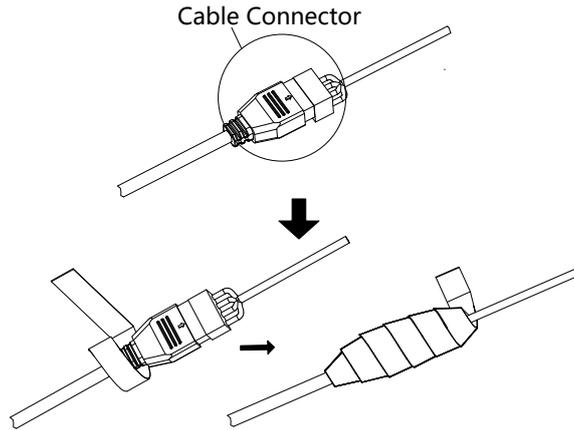


Figure 4-38 Wrap the Water-proof Tape

**Note:**

Make sure that all exposed wires are all firmly wrapped and concealed by the water-proof tape.

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

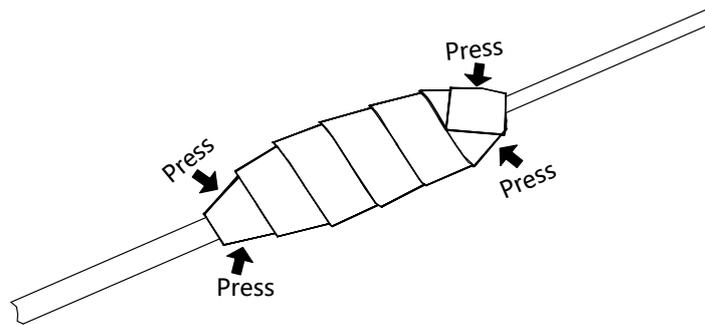


Figure 4-39 Press the Water-proof Tape

5. Wrap the water-proof tape around the remaining unused cables tightly as shown in the figure below (some camera models may not feature all the pictured cables).

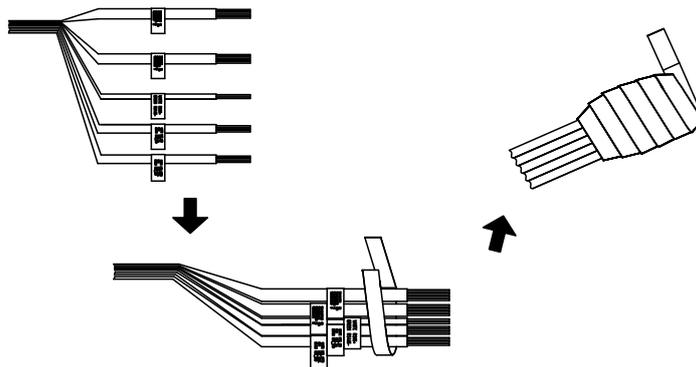


Figure 4-40 Wrap the Water-proof Tape

**Note:** Make sure that all exposed wires are all firmly wrapped and concealed by the water-proof tape.

6. Press the tape firmly to make sure no water can penetrate as shown in the figure below.

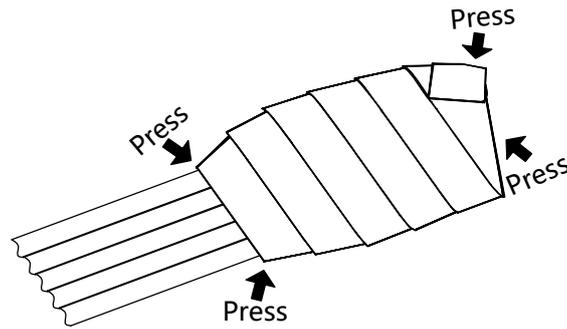


Figure 4-41 Press the Water-proof Tape

### ENABLING HDMI OUTPUT IN CAMERA BROWSER SETTINGS FOR PUBLIC VIEW MONITOR USE

To utilize the camera’s HDMI output for use with an external monitor, confirm the camera’s Local Output display settings is configured correct.

**Steps:**

1. Login to the camera.
2. Navigate to the camera’s web interface login screen.
3. Enter the camera’s IP address into a browser URL field and hit **Enter**. Fill in the required login credentials and click **Login** to proceed.

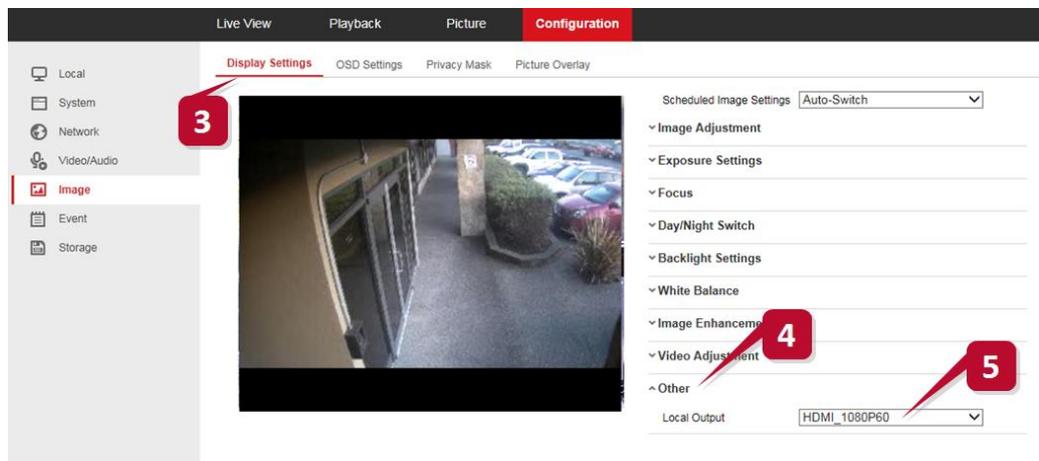


Figure 4-42 Enabling HDMI Output in Browser Settings

4. Navigate to *Configuration>Image>Display Settings*.
5. Click **Other** to deploy the *Local Output* settings menu.
6. Select **HDMI\_1080P60**.

# 5 Mini-Dome Camera Installation

## 5.1 VX-3P28-MD-IA

### CAMERA DESCRIPTION

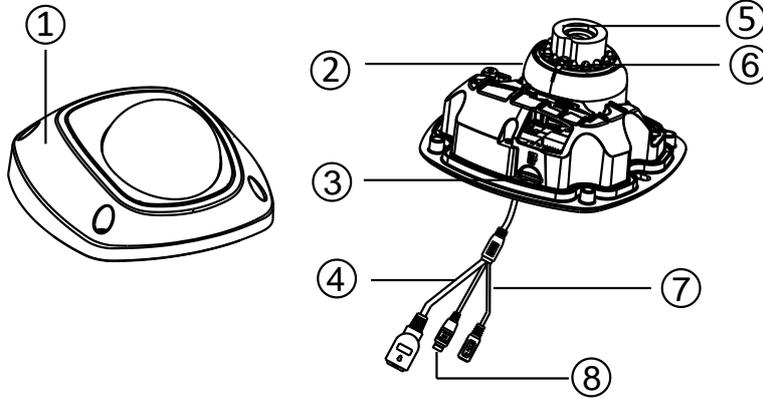


Figure 5-1 Overview (1)

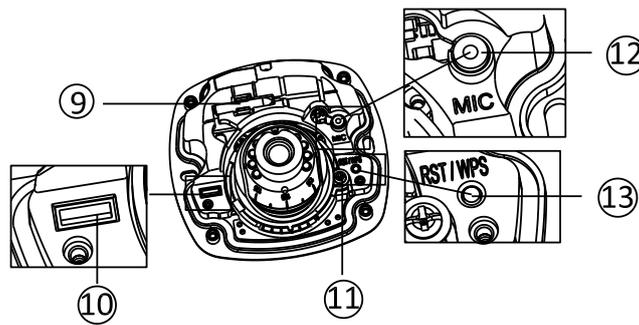


Figure 5-2 Overview (2)

Number	Description
1	Front Cover
2	Dome Drive
3	Micro SD Card Slot
4	Network Cable
5	Lens
6	IR LED
7	Power Cable
8	Audio/Alarm Cable I, O: Alarm In / Out A: Audio Out GND
9	Wi-Fi Antenna

Number	Description
10	Serial Port Interface
11	Hex Screw
12	MIC
13	RESET/WPS Button

**NOTE:** Press and hold RESET for 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

### WPS SETUP

WPS (Wi-Fi Protected Setup, also known as AOSS or QSS) is a computing standard that attempts to allow easy establishment of a secure wireless network. A wireless router with the WPS function is required to enable the WPS function of the camera. Refer to the steps below.

#### Steps:

- 1). Press the WPS button on the router.
- 2). Press the WPS button (about 2s) on the camera within 120s of enabling the WPS on the router to join the wireless network.

#### NOTES:

- The WPS button works as a reset button only when you press it when the camera is powering on.
- Press the WPS button on the camera, and then press the WPS button on the router will establish a connection as well, and the expire time of WPS connection on the camera is 120s.
- The link indicator blinks if the wireless connection is succeeded.

### AVAILABLE MOUNTS

- MD Wall Mount (3xLOGIC Product #: [VX-WM-MD](#))
- MD Pendant Mount (3xLOGIC Product #: [VX-PM-MD](#))
- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

**INSTALLATION — CEILING MOUNT**

**Steps:**

- 1). Drill the screw holes and the cable hole in the ceiling according to the supplied drill template.

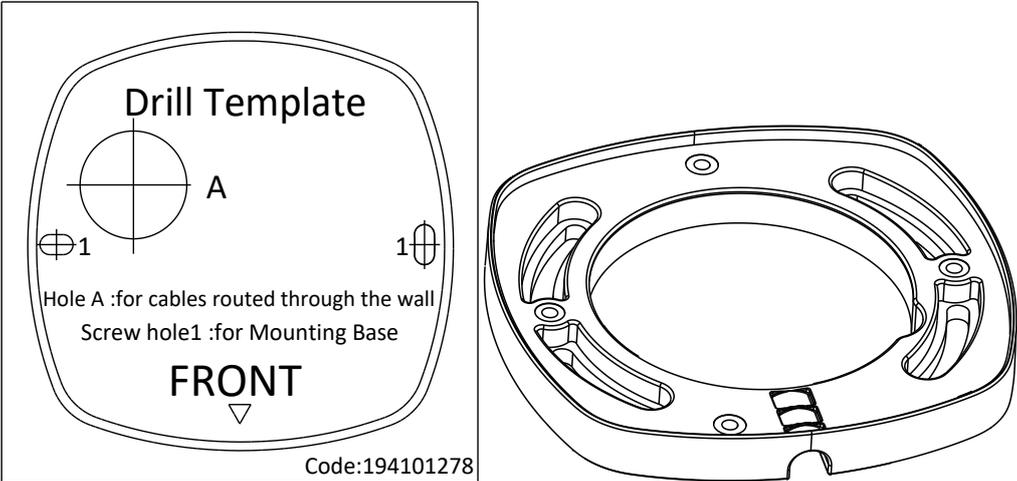


Figure 5-3 Drill Template/Adapter Plate

- 2). Loosen the set screw on the front cover to disassemble the camera with the supplied Allen key.

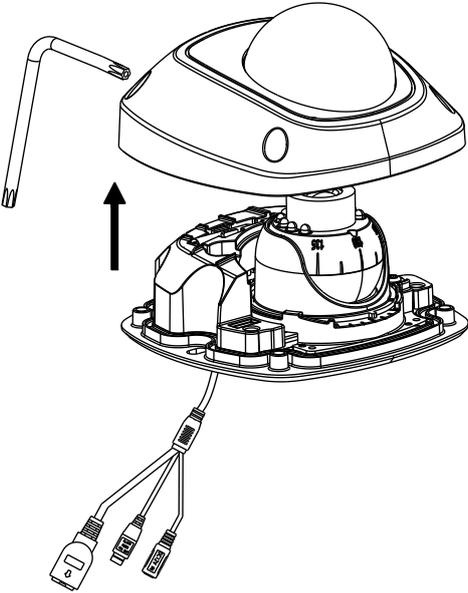


Figure 5-4 Disassemble the Camera

- 3). Hammer the plugs of the expansion screws to the screw holes.
- 4). Attach the adapter plate to the ceiling with the supplied expansion screws.

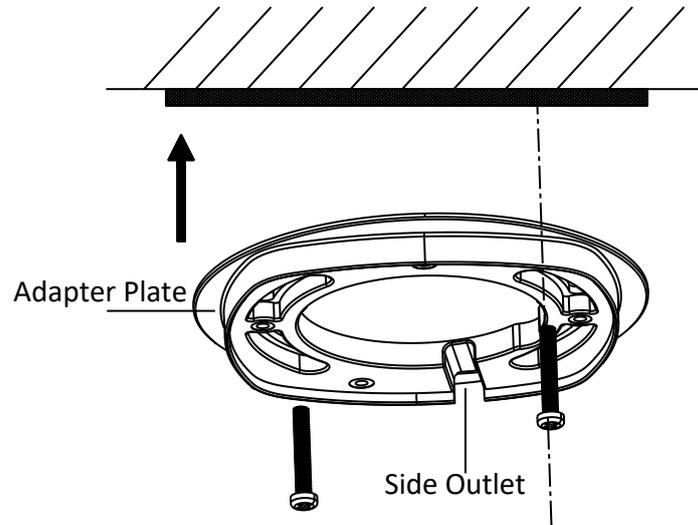


Figure 5-5 Attach the Adapter Plate

**NOTE:** If the supplied drill template is type II drill template, you can skip step 3 and go straight to step 4.

- 5). Attach the dome drive with the supplied PM4x8 screws.

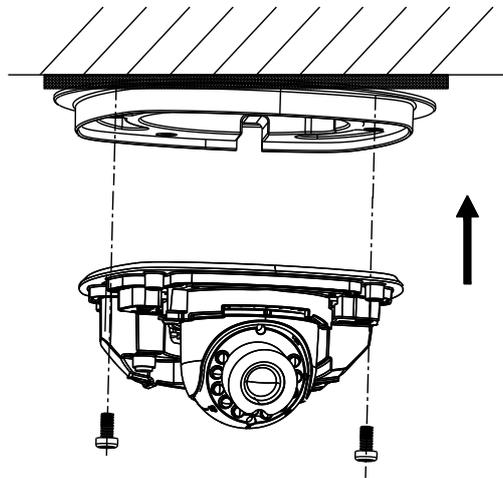


Figure 5-6 Attach the Dome Drive

- 6). Connect the power cable, network cable, and the alarm/audio cable.

**NOTE:** Use pliers to remove the removable part and route the cables via side outlet (as shown in Figure 5-7) if no cable hole is drilled in step 1, and connect the corresponding cables.

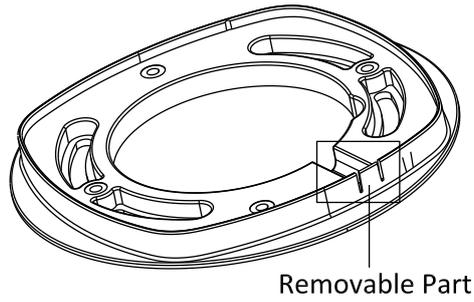


Figure 5-7 Remove the Removable Part

- 7). View the image via the web browser.
- 8). Slightly loosen the hex screw beside the WPS/RESET button to adjust the surveillance angle.
- 9). Use the supplied adjusting tool to adjust the pan [ $\pm 30^\circ$ ], tilt [ $0\sim 80^\circ$ ], and rotation direction [ $0\sim 360^\circ$ ].

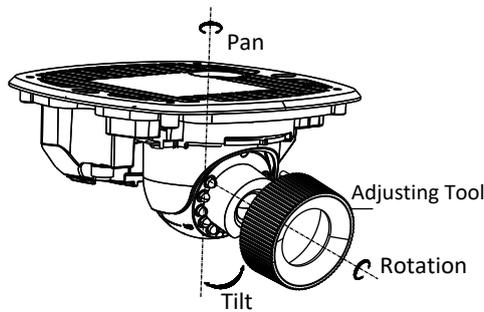


Figure 5-8 3-axis Adjustment

- 10). Tighten the hex screw to lock the camera at the desired surveillance angle.
- 11). Align the front cover to the dome drive and tighten the set screws on the front cover to complete the installation.

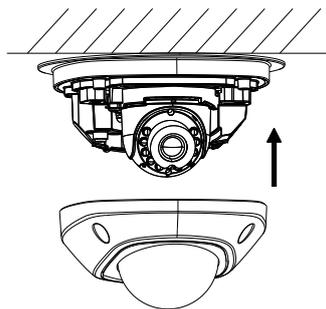


Figure 5-9 Install the Front Cover

- 12). Tear off the protection film softly to complete the installation.

## INSTALLATION — PENDANT MOUNT

### Steps:

- 1). Install the bracket to the ceiling with the supplied screws in the ceiling bracket package.

**NOTE:** The matched pendant bracket model is [VX-PM-MD](#), and you need to purchase it separately if ceiling bracket mounting is adopted.

- 2). Attach the adapter plate to the ceiling bracket with the supplied PM4x8 screws.

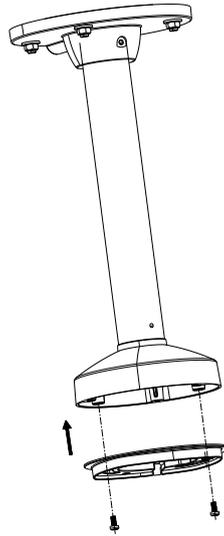


Figure 5-10 Attach the Adapter Plate

- 3). Install the dome drive to the adapter plate.

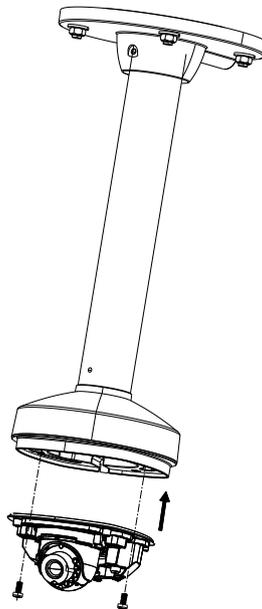


Figure 5-11 Attach the Dome Drive

- 4). Align the front cover to the dome drive and tighten the set screws on the front cover to complete the installation.

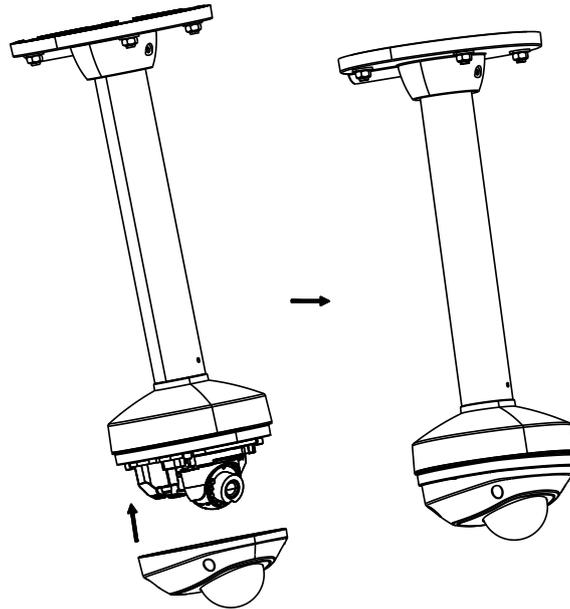


Figure 5-12 Install the Front Cover

#### INSTALLATION — WALL MOUNT

**Steps:**

- 1). Install the wall bracket to the wall with the supplied screws in the wall bracket package.

**NOTE:** The matched ceiling bracket model is [VX-WM-MD](#) and you need to purchase it separately if wall bracket mounting is adopted.

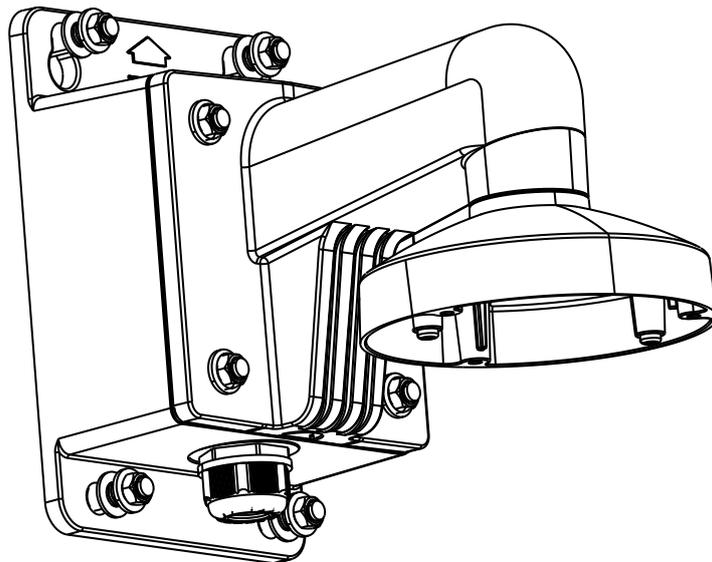


Figure 5-13 Install Wall Bracket

- 2). Attach the adapter plate to the wall bracket.

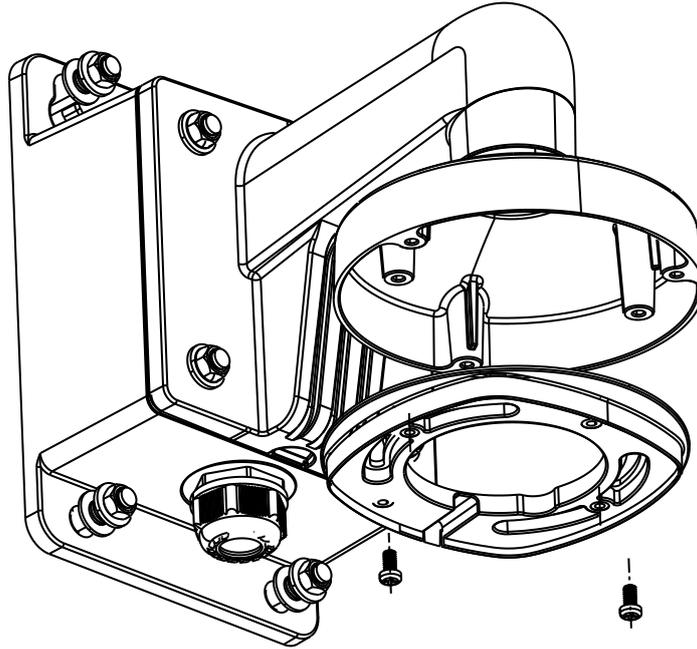


Figure 5-14 Attach the Adapter Plate

- 3). Attach the dome drive to the wall bracket with the supplied screws.

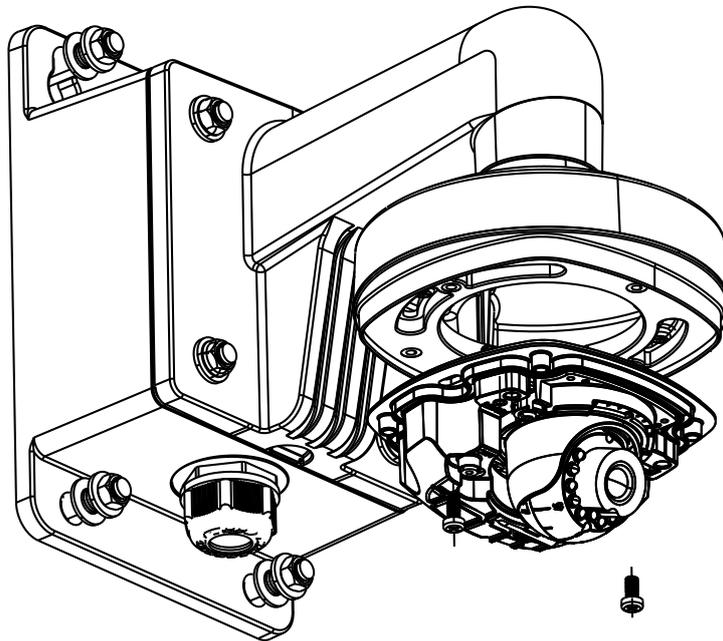


Figure 5-15 Attach the Camera

- 4). Align the front cover to the dome drive and tighten the set screws on the front cover to complete the installation.

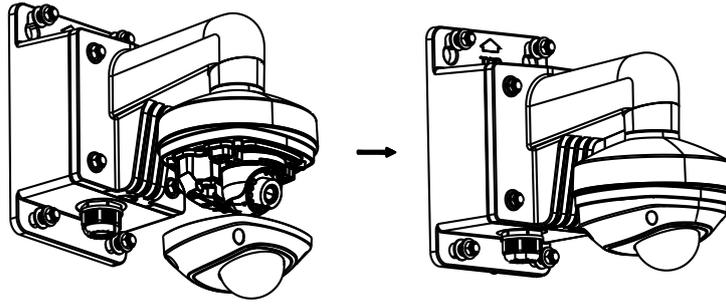


Figure 5-16 Install the Front Cover

### INSTALLATION — MICRO SD CARD

This series of camera supports local storage, please refer to the following steps to install the Micro SD card.

**Steps:**

- 1). Remove the front cover by loosening the set screws on it.

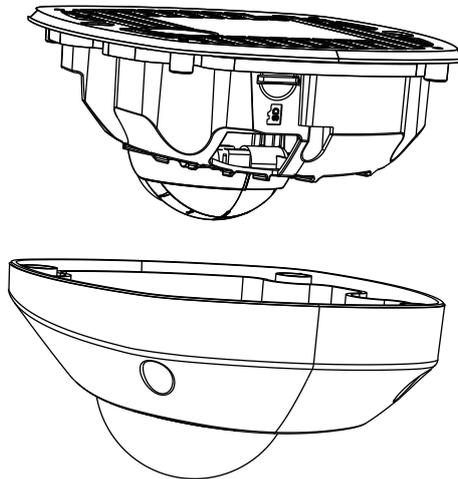


Figure 5-17 Remove the Front Cover

- 2). Insert the Micro SD card to the card slot until you hear a click.
- 3). (Optional) Slightly push the inserted Micro SD card to uninstall it from the camera.

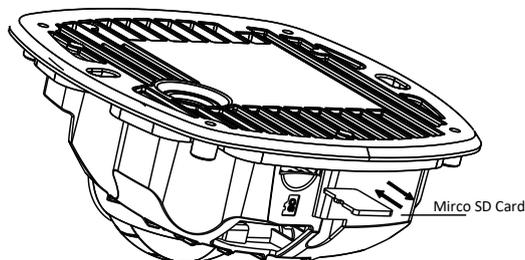


Figure 5-18 Install and Uninstall Micro SD Card

## 5.2 VX-3P4-MD-I, VX-4S28-MD-I, VX-3P28-MD-I

### CAMERA DESCRIPTION

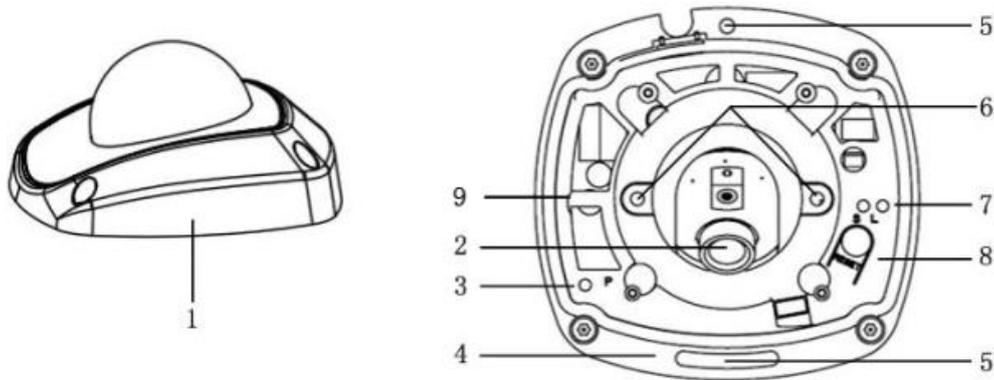


Figure 5-19 Overview

Number	Description
1	Cover
2	Lens
3	Power LED indicator, It turns solid red when power is connected.
4	Base Plate
5	Set Screw Hole
6	Set Screw of Lens
7	S & L: Network Status Indicator. When the network is connected, the “S” LED is solid yellow, while the “L” LED flashes orange.
8	RESET Button
9	Micro SD Card Slot

**NOTE:** Press and hold RESET for 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

### AVAILABLE MOUNTS

- MD Wall Mount (3xLOGIC Product #: [VX-WM-MD](#))
- MD Pendant Mount (3xLOGIC Product #: [VX-PM-MD](#))
- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

## INSTALLATION — CEILING MOUNT

### Steps:

- 1). (Optional) Use pliers to remove the clip (marked in dotted line in the figure below) on the side of the back box and then route the cables through the opening instead of the cable hole.

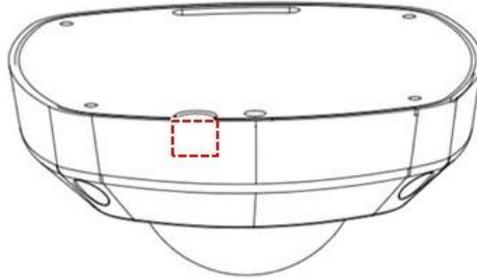


Figure 5-20 Side Clip

- 2). Loosen the set screws with a hex key (supplied) to remove the cover.

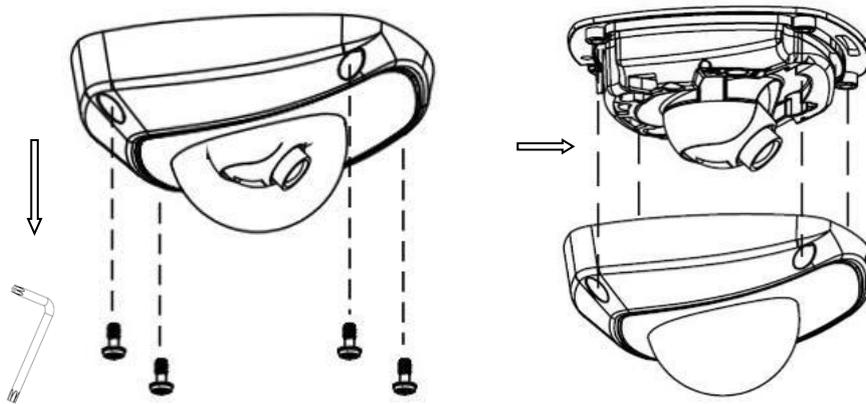


Figure 5-21 Remove the Cover

- 3). Install the Micro SD card to the card slot.

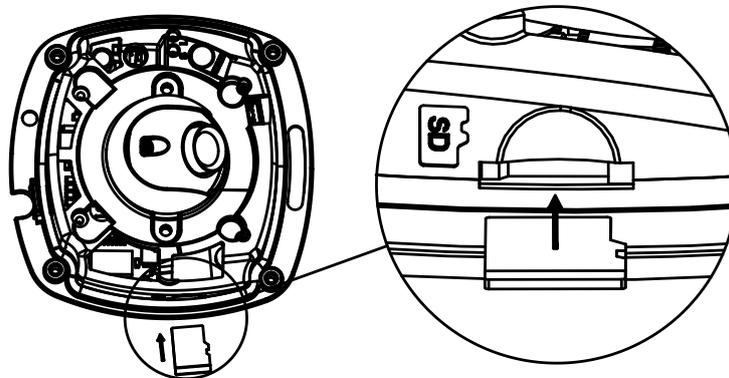


Figure 5-22 Install Micro SD Card

- 4). Attach the camera to the ceiling with the supplied screws.

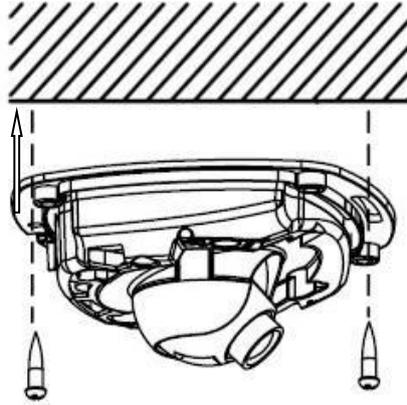


Figure 5-23 Attach the Camera

- 5). View the video camera image over the network.
- 6). Loosen the lens set screws.

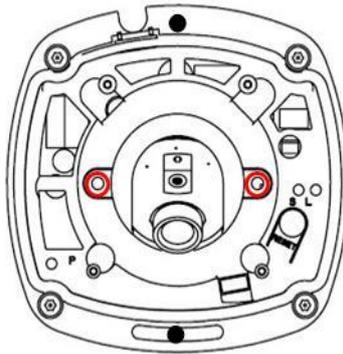


Figure 5-24 Loosen the Lens Set Screws

- 7). Insert the hex key into the hole marked in the picture and rotate the hex key to adjust the panning position and tilting position until the desired surveillance angle is achieved. Tighten the set screws to lock the angle.

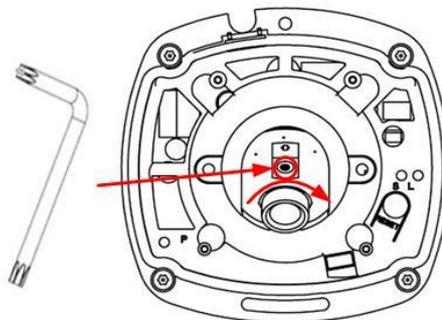


Figure 5-25 Adjust Panning Position

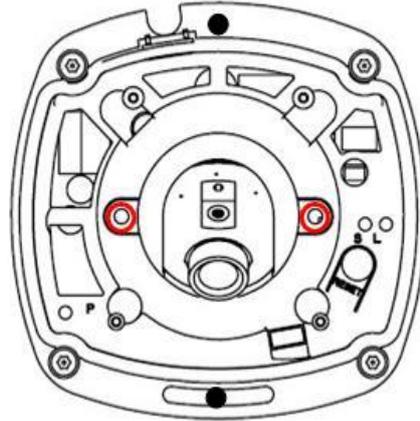


Figure 5-26 Adjust Tilting Position

**NOTE:** As the lens of camera has already been factory adjusted to the best image, you just need to adjust the panning position and tilting position to get the desired surveillance angle.

- 8). Reinstall the cover before viewing the image so that the image you receive will appear the same as it would after final installation.
- 9). Install the cover, and tighten the set screws.

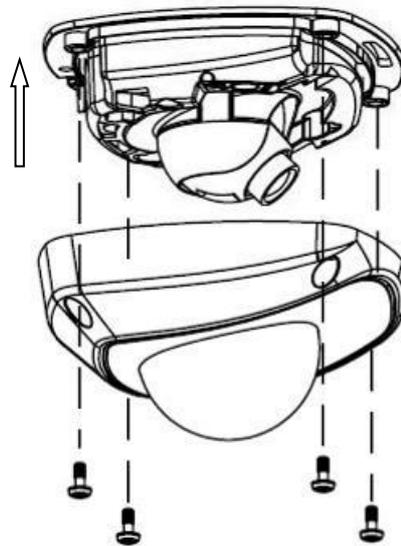


Figure 5-27 Install the Back Box

## 6 Outdoor Dome Camera Installation

### 6.1 VX-3S28-OD-I-3, VX-SMBK-D

#### CAMERA DESCRIPTION

There are two types of camera appearance for this series of camera according to the different models.

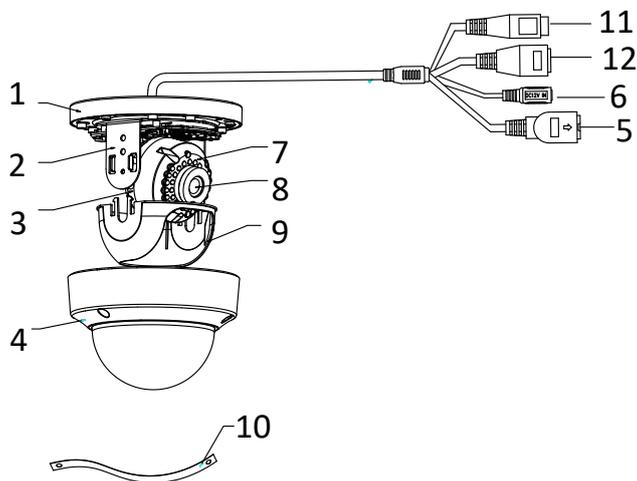


Figure 6-1 Overview

Number	Description
1	Mounting Base
2	Horizontal Stand
3	Vertical Stand
4	Bubble
5	Network Interface
6	Power Interface
7	IR LED
8	Lens
9	Black Liner
10	Safety Rope
11	Audio Interface
12	Alarm Interface

**NOTE:** Press and hold RESET for 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

**AVAILABLE MOUNTS**

- OD Wall Mount (3xLOGIC Product #: [VX-WM-OD](#))
- OD Pendant Mount (3xLOGIC Product #: [VX-PM-OD](#))
- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

**INSTALLATION — CEILING MOUNT**

**Steps:**

- 1). Drill the screw holes on the ceiling according to the drill template.

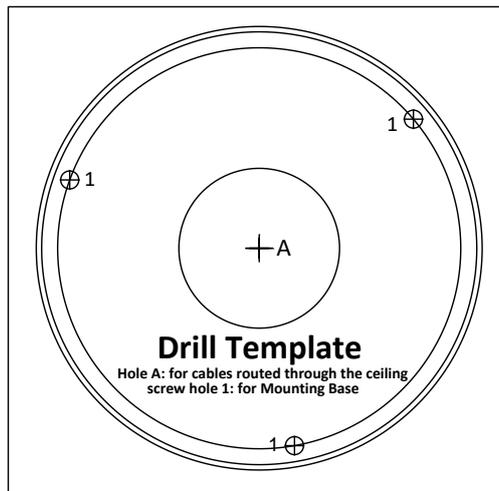


Figure 6-2 Drill Template

- 2). Loosen the set screws with a hex key (supplied) to remove the bubble.

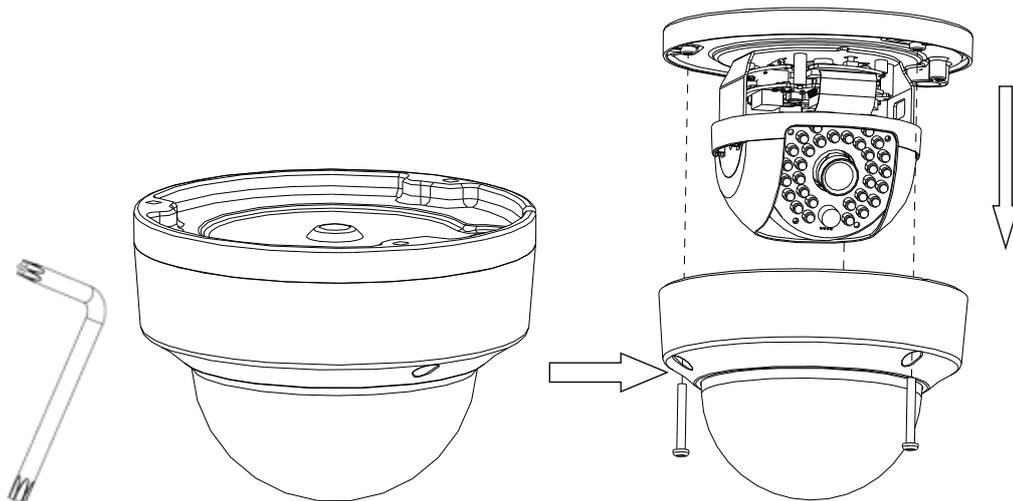


Figure 6-3 Remove the Bubble

- 3). Attach the mounting base on the ceiling with screws.

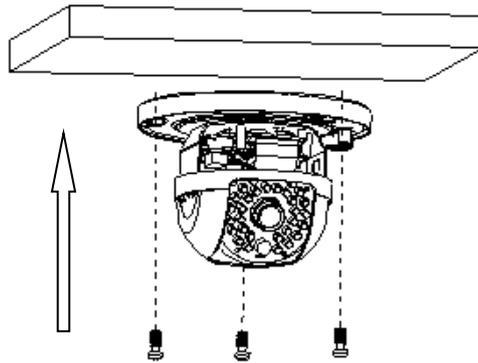


Figure 6-4 Attach the Mounting Base

**NOTE:** If required, you can route cables through the side opening on the side of the mounting base.

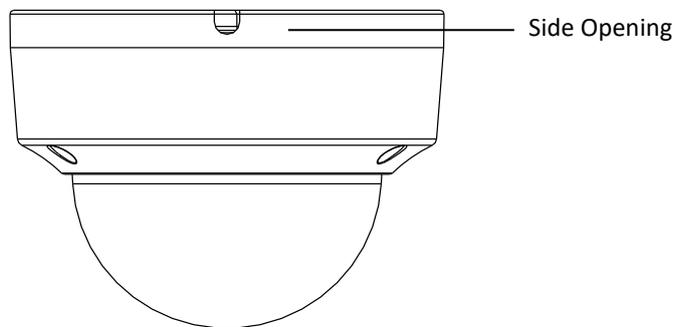


Figure 6-5 Side Opening

- 4). Loosen the tilt lock screws, adjust the tilting position in a range of 65 degrees, and tighten the tilt lock screws.
- 5). Rotate the black liner to adjust the pan angle [0°~355°], tilt angle [0°~75°].

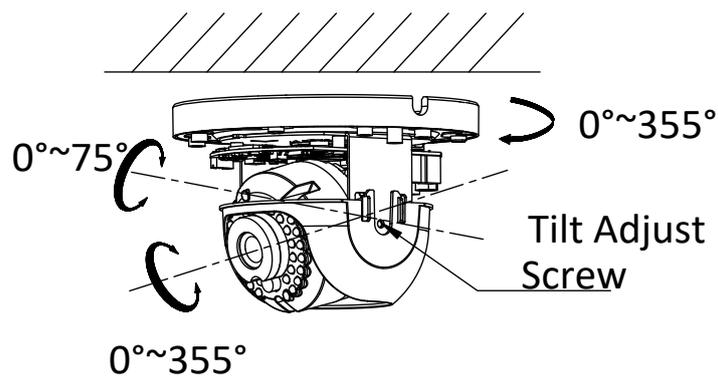


Figure 6-6 Surveillance Angle Adjustment

**NOTE:** As the lens has already been factory adjusted to the best image, you just need to adjust the panning position and tilting position to get the desired surveillance angle.

- 6). Reinstall the bubble and tighten the screws.

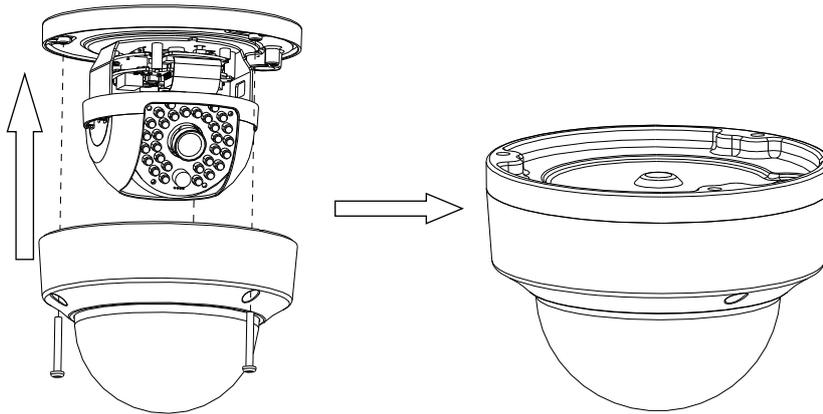


Figure 6-7 Bubble Reinstallation

### INSTALLATION — MICRO SD CARD

**Steps:**

- 1). Loosen the lock screws on the bubble to disassemble the camera.

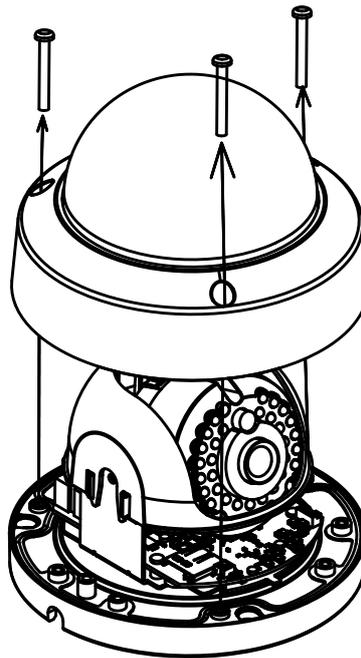


Figure 6-8 Disassemble the Camera

- 2). Insert the Micro SD card to the card slot.
- 3). (Optional) Push the inserted Micro SD card inside, and the Micro SD card will be sprung out.

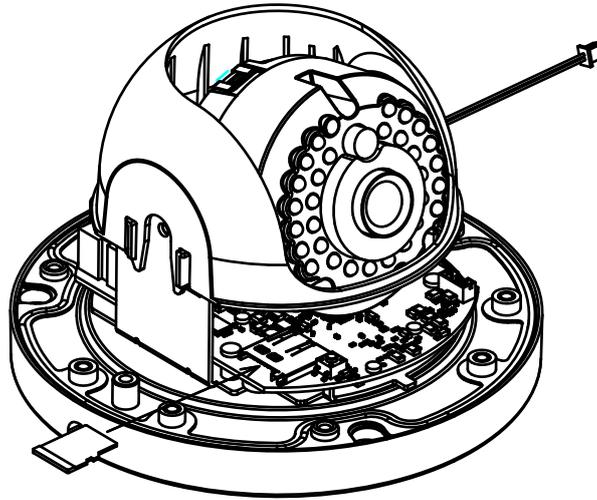


Figure 6-9 Insert the Micro SD Card

- 4). Re-install the bubble and tighten the lock screws.

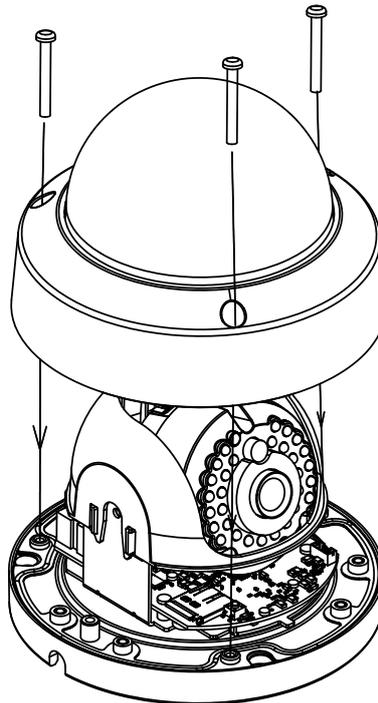


Figure 6-10 Install the Bubble Cover

## 6.2 VX-2M-OD2-RIAH, VX-3M-OD2-RIAWD

### CAMERA DESCRIPTION

The overview of the outdoor dome camera is shown below:

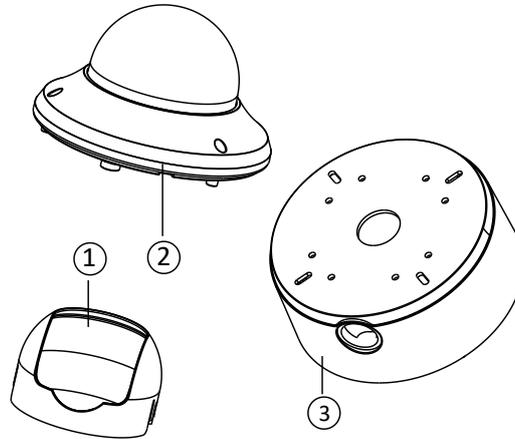


Figure 6-11 Overview (1)

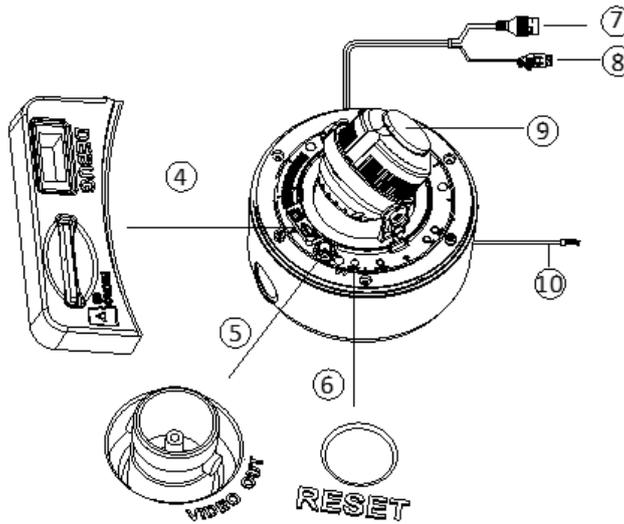


Figure 6-12 Overview (2)

Number	Description	Number	Description
1	Black Liner	6	Reset
2	Bubble	7	LAN(PoE) 10/100M Self-adaptive Ethernet Interface
3	Mounting Base	8	Power Interface (DC 12v)
4	SD Card Slot	9	Lens
5	Video Out	10	Audio and Alarm Cables

Description of Audio and Alarm Cables Overview

Label : Color	Description
CVBS : White GND; Any Available	Auxiliary Monitor Output
RS485+ : Red RS485- : Yellow	RS 485 Interface
ALARMINA: Brown ALARMINB: Orange GND; Any Available	Alarm Inputs
OUT1A : Green OUT1B :Blue OUT2A :Purple OUT2B : Green and White GND; Any Available	Alarm Outputs
LINEIN_R: Orange and White LINEIN_L/MIC: Yellow and White LINEOUT_R: Gray LINEOUT_L: Light Blue GNDx2; Any Available	Audio

**NOTE:** *LINEIN\_L/MIC* is the camera’s microphone input.

**AVAILABLE MOUNTS**

- OD2 Wall Mount (3xLOGIC Product #: [VX-WM-OD2](#))
- OD2 Wall Mount w/ Junction Box (3xLOGIC Product #: [VX-WMJ-OD2](#))
- OD2 Pendant Mount (3xLOGIC Product #: [VX-PM-OD2](#))
- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

**INSTALLATION — CEILING MOUNT**

**Steps:**

- 1). Drill the screw holes and the cable hole according to the supplied drill template.

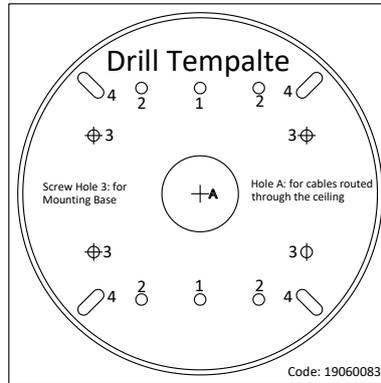


Figure 6-13 Drill Template

- 2). Install the mounting base to the ceiling with the supplied screws.

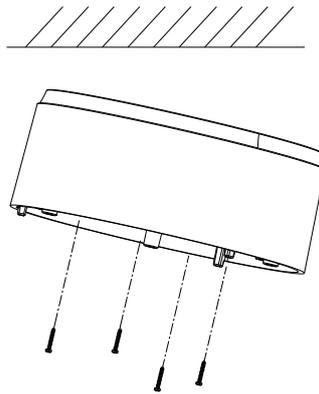


Figure 6-14 Install the Mounting Base

- 3). Connect the corresponding power cable, network cable, audio and alarm cables.
- 4). Install the dome drive to the mounting base.

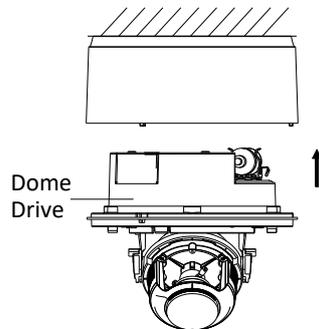


Figure 6-15 Install the Dome Drive

- 5). Adjust the surveillance angle.
  - a. Loosen the lock screw besides the lens.
  - b. Hold the plastic plate and rotate the camera to adjust the panning angle [0~350°].
  - c. Push the lens forward and backward to adjust the tilting angle [0~80°].
  - d. Rotate the lens to adjust the azimuth angle of the camera [0~350°].
  - e. Tighten the lock screw.

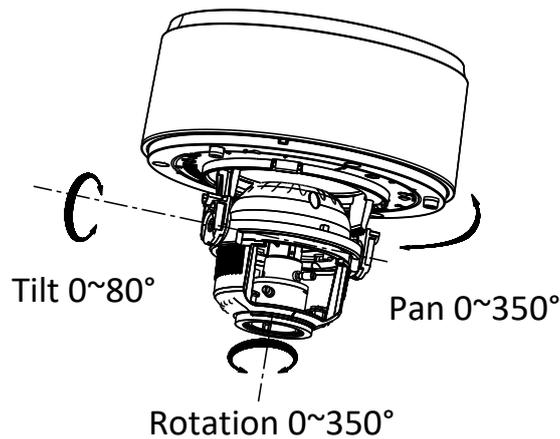


Figure 6-16 3-Axis Adjustment

- 6). Adjust the Lens.
  - a. Connect the VIDEO OUT interface of the camera to a debugging monitor.
  - b. To begin, set the iris type to MANUAL.
  - c. Adjust the No.2 Zoom Lever (T~W) to select a proper angle of view.
  - d. Adjust the No.1 Focus Lever (F~N) to obtain the desired image on the monitor.
  - e. Set the iris type as MANUAL if the environment has a stable level of illumination. Set the iris type to AUTO if the environment has varying illumination levels.

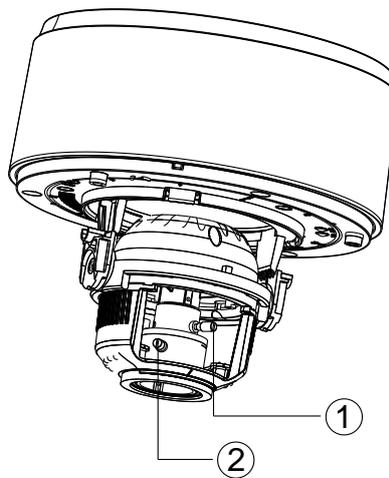


Figure 6-17 Adjust the Focus and Zoom

- 7). Fit the black liner back to the camera.
- 8). Align the bubble to camera and secure it by tightening the screws to complete the installation.

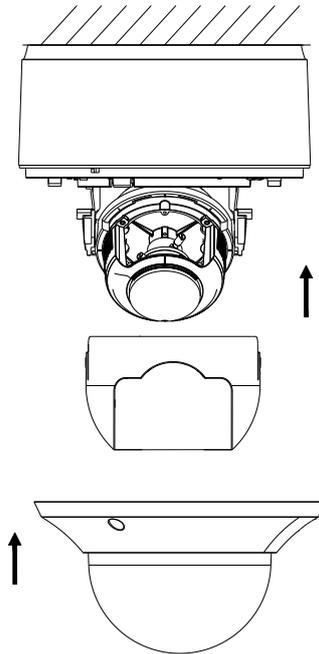


Figure 6-18 Install the Black Liner and Bubble

### 6.3 VX-6S-OD3-RIAWD, VX-3S-OD3-RIAH

#### CAMERA DESCRIPTION

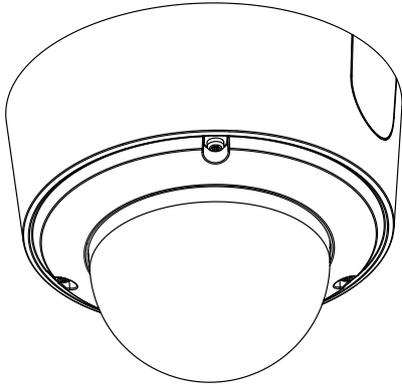


Figure 6-19 Camera Overview

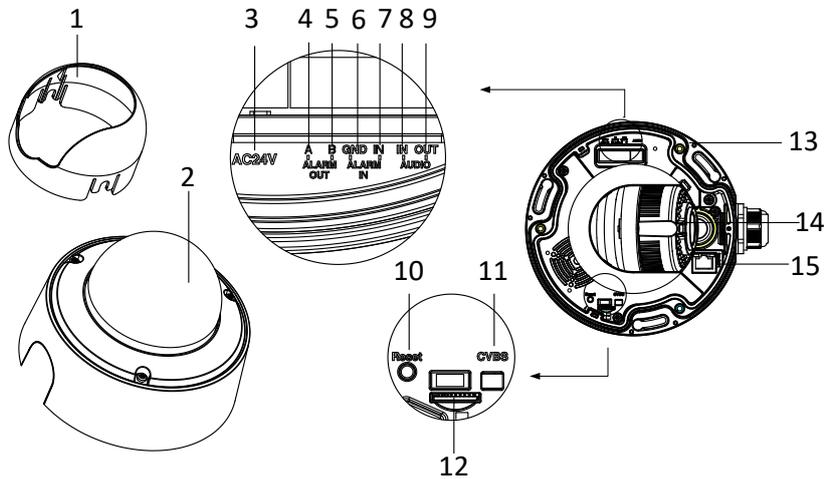


Figure 6-20 Camera Components

Number	Description
1	Black Liner
2	Bubble
3	Power Interface
4	Alarm Output A
5	Alarm Output B
6	Grounding
7	Alarm Input
8	Alarm In

Number	Description
9	Audio Out
10	Reset Button
11	CVBS Interface
12	SD Card Slot
13	Mounting Base
14	Lens
15	Network Interface

**NOTE:** Press and hold RESET for 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

**NOTE:** This series of camera supports 12V DC, 24V AC, and PoE power supply. Please make sure your power supply meets the requirements.

**AVAILABLE MOUNTS**

- OD3 Wall Mount (3xLOGIC Product #: [VX-OD3-BWM](#))
- OD3 Junction Box (3xLOGIC Product #: [VX-OD3-BJB](#))
- OD3 Pendant Mount (3xLOGIC Product #: [VX-OD3-BPM](#))
- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

**INSTALLATION — CEILING MOUNT**

**Steps:**

- 1). Drill the screw holes on the ceiling using the supplied drilling template. If you need to route the cables from the bottom of the camera, cut a cable hole in the ceiling.

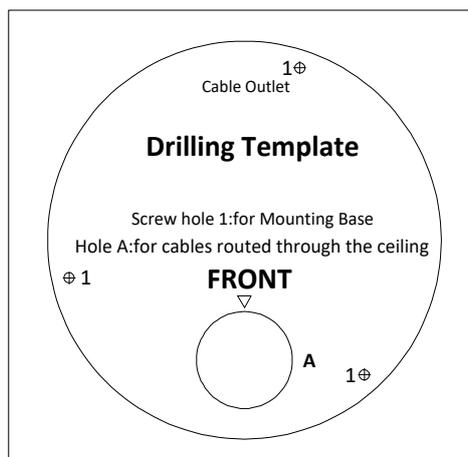


Figure 6-21 Drill Template

- 2). Secure the supplied screws to the ceiling.

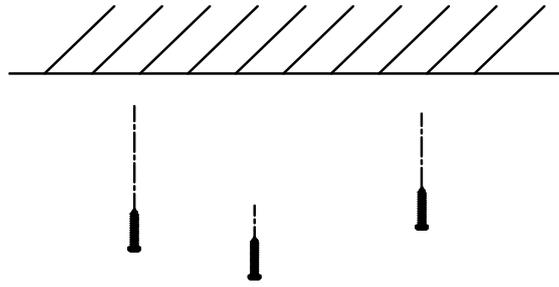


Figure 6-22 Secure the Screws

**NOTE:** Do not secure the screws into the ceiling completely. It is recommended you secure half of a screw into the ceiling, so as to hook the camera to the screws.

- 3). Use a hexagonal screwdriver to loosen the lock screw on the bubble, and remove the black liner.
- 4). Route the cables from the cable hole, and connect the corresponding cables.

**NOTE:** You can select to route the cables from the side outlet instead of the cable hole in the ceiling. See Figure below.

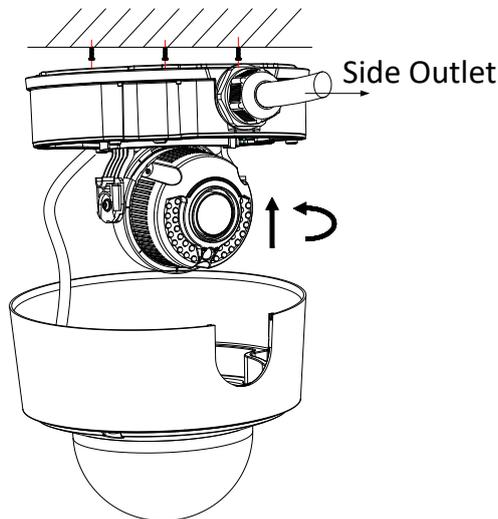


Figure 6-23 Route the Cables via Side Outlet

- 5). Align the screws holes on the camera to the inserted screw, and rotate the camera to hook the camera to the screws.
- 6). Tighten the screws.

- 7). Install the black liner and bubble back.

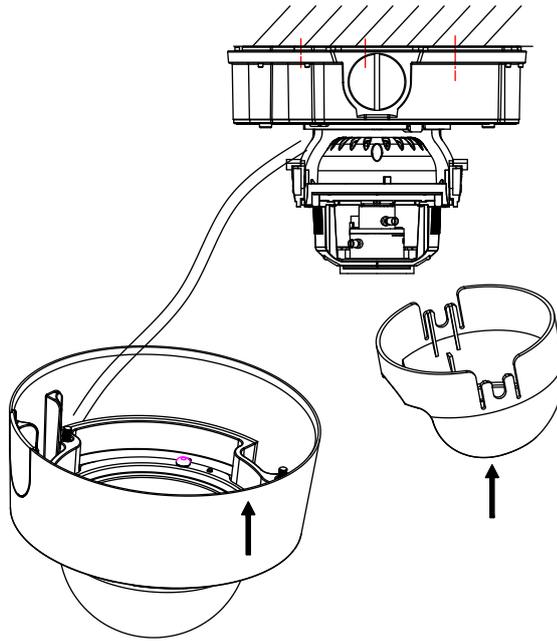


Figure 6-24 Install the Black Liner and Bubble

- 8). Tighten the lock screw on the bubble

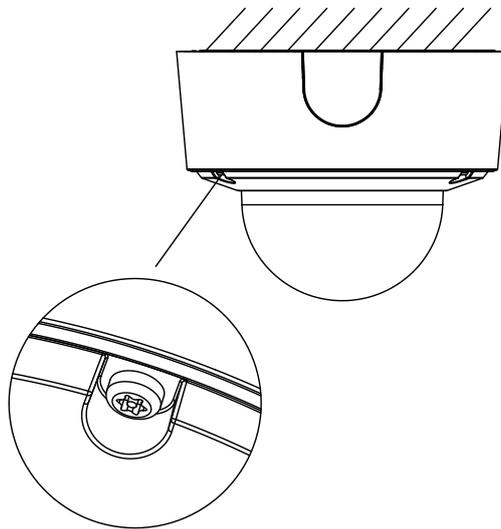


Figure 6-25 Tighten the Lock Screw

**INSTALLATION — WALL MOUNT**

**NOTE:** This wall mounting bracket is sold separately from this camera model.

**Steps:**

- 1). Fix the wall bracket to the wall with the screws. Please insert the expansion screws first if the camera is mounted to the cement wall, and you can use the self-tapping screws directly if camera is mounted to the wooden wall.
- 2). Install the bowl-shape cover to the wall bracket.

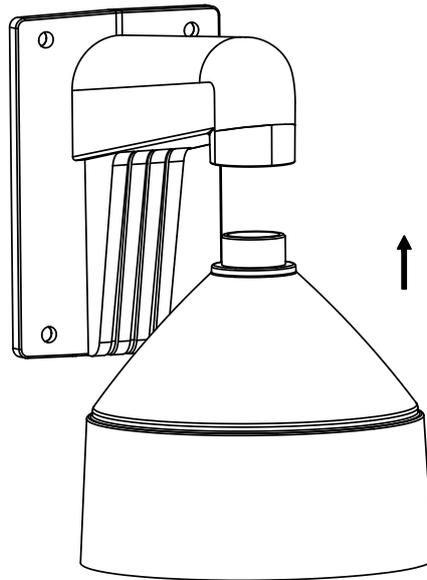


Figure 6-26 Install the Wall Bracket

- 3). Align the supplied rubber ring to the bowl-shape cover.
- 4). Insert the screws half-deep to the screws holes on the rubber ring.

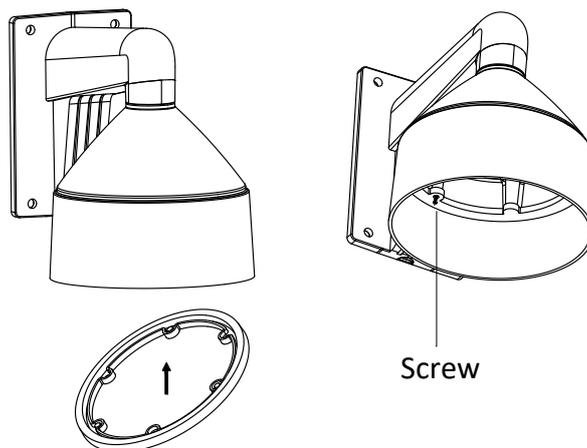


Figure 6-27 Install the Rubber Ring and Screws

- 5). Align the screw holes on the camera to the installed screws, and rotate the camera to hook to the camera to the screws.
- 6). Install the black liner and bubble.

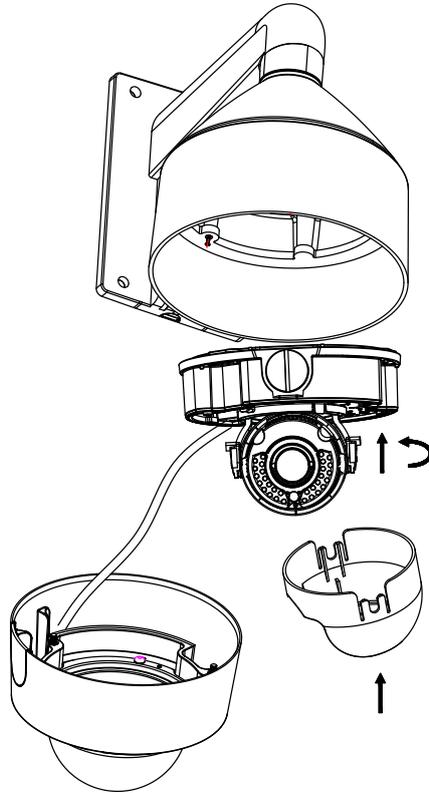


Figure 6-28 Install the Black Liner and Bubble

- 7). Tighten the lock screw on the bubble.

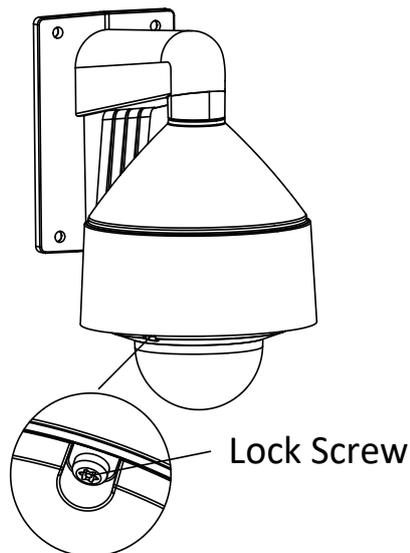


Figure 6-29 Tighten the Lock Screw

### 3-AXIS ADJUSTMENT

This series of camera supports 3-axis adjustment, and you can adjust the camera to the desired surveillance angle after the black liner is installed.

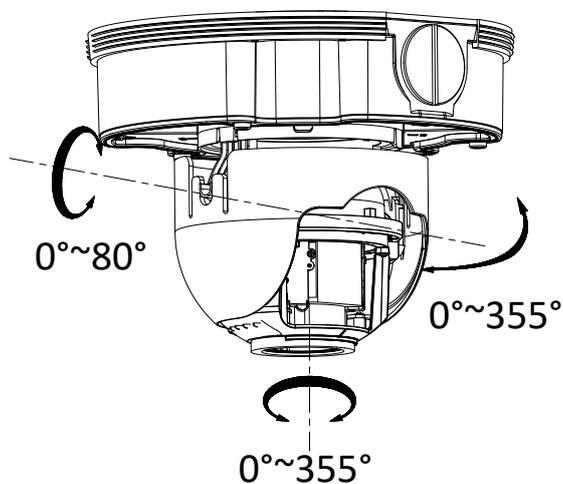


Figure 6-30 3-Axis Adjustment

### LENS ADJUSTMENT

The camera with letter “Z” in its model suffix support electronic lens. You can adjust the lens via the zoom button or focus button on the PTZ control interface after you login to a camera.



Figure 6-31 Zoom/Focus Adjustment via PTZ Interface

Connect the camera to a debug monitor so as to get the live view, and adjust the zoom lever (T~W) to adjust the zoom, and adjust the focus lever (F~N) to adjust the focus till you get a clear view.

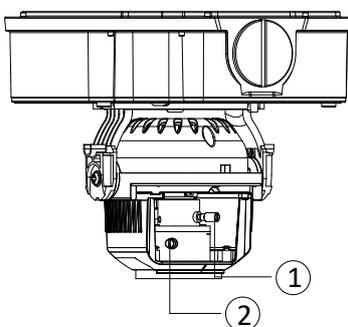


Figure 6-32 Lens Adjustment

## 7 Bullet Camera Installation

### 7.1 VX-3P28-MB-I, VX-3P4-MB-I, VX-4S4-MB-I, VX-SMBK-B

#### CAMERA DESCRIPTION

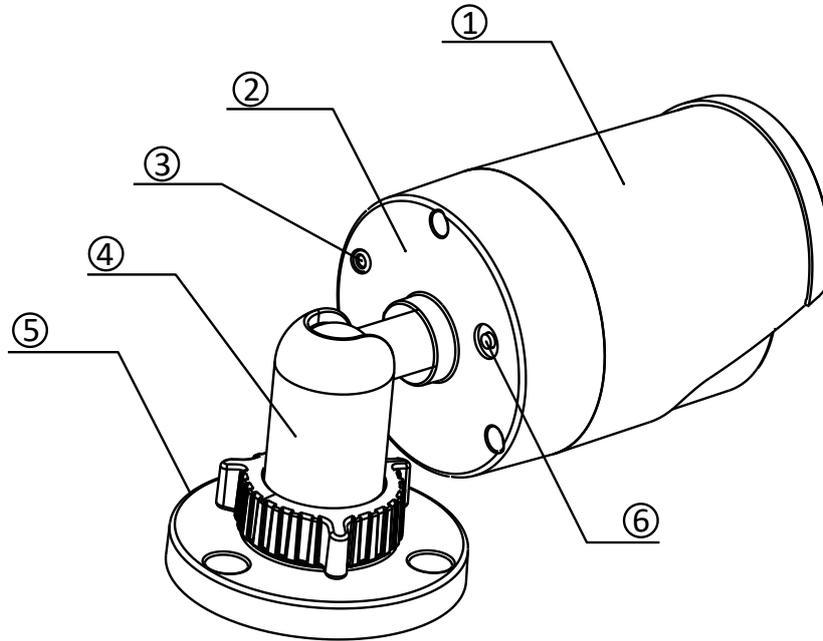


Figure 7-1 Bullet Camera Overview

Number	Description
1	Sun Shield
2	Back Box
3	Grounding Screw
4	Adjustable Bracket
5	Mounting Base
6	Reset

### AVAILABLE MOUNTS

- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

These cameras have a built-in mount for wall and ceiling mount applications.

### INSTALLATION — CEILING/WALL MOUNT

**Steps:**

- 1). Attach the drill template on the wall.

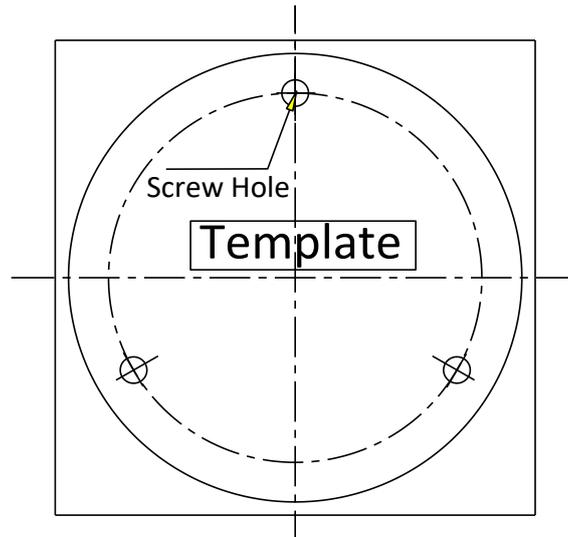


Figure 7-2 Attach the template

- 2). Secure the camera to the ceiling with the supplied expansion screws.

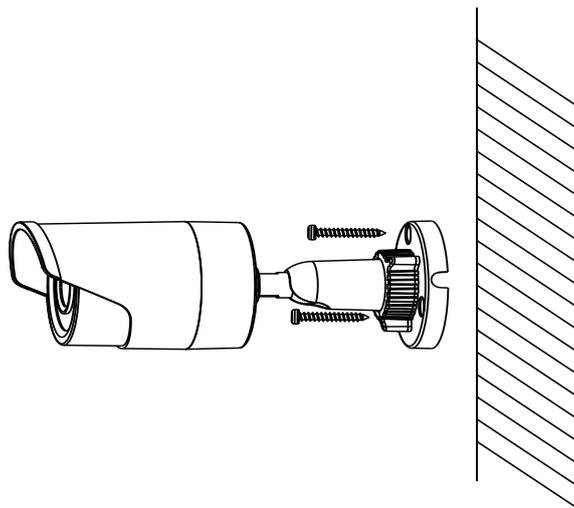


Figure 7-3 Secure the Camera to the Ceiling

- 3). Adjust the Lens.
  - a. Loosen the adjustable nut on the bracket.
  - b. Adjust the panning angle [0~360°] of the camera.
  - c. Adjust the tilting angle [0~90°] of the camera.
  - d. Rotate 0~360° to adjust azimuth angle of the image.
  - e. Tighten the adjustable nut to complete the installation.

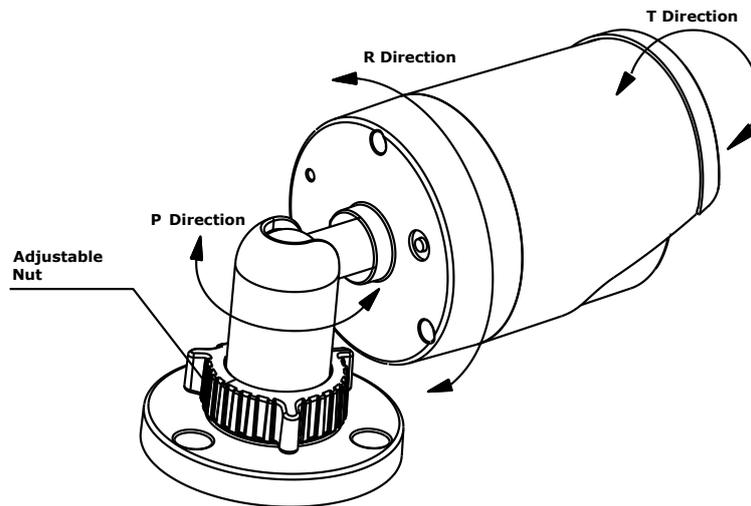


Table 1-3 3-axis Adjustment

## 7.2 VX-3PV-B-I

### CAMERA DESCRIPTION

The overview of the network bullet camera is shown below. Please note, the VX-3PV-B-I will only feature the power and network interface cables.

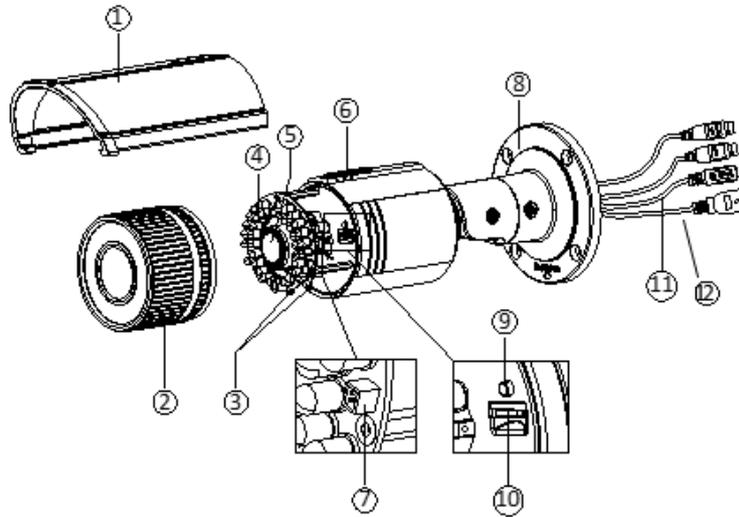


Figure 7-4 Overview

Number	Description
1	Sun Shield
2	Front Cover
3	Zoom and Focus Lever
4	IR LED
5	Lens
6	Air Vent
7	Video Output Interface
8	Integrated Bracket
9	Reset Button
10	Micro SD Card Slot
11	Power Interface
12	Network Interface

**NOTE:** Press and hold RESET for 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

## AVAILABLE MOUNTS

- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

This line of camera has a built-in mount for wall and ceiling mount applications.

## INSTALLATION — MICRO SD CARD

### Steps:

- 1). Loosen the lock screw on the sun shield to slide the sun shield according to the arrow direction as shown in Figure 7-5 (left).
- 2). Remove the sun shield according to the arrow direction as shown in Figure 7-5(right).
- 3). Remove the front cover by rotating it counterclockwise as shown in Figure 7-5 (right).

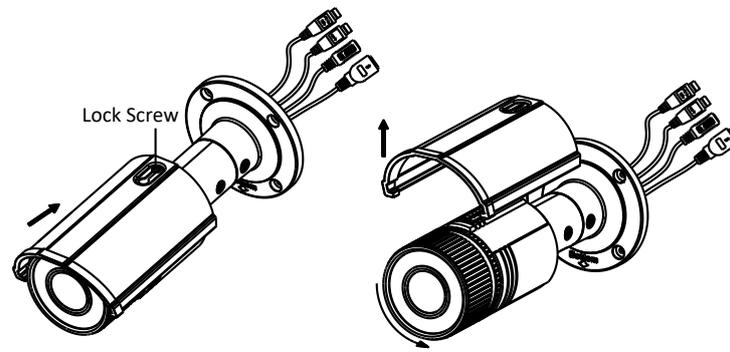


Figure 7-5 Disassemble the Camera

- 4). Insert the Micro SD card into the Micro SD card slot.
- 5). Rotate the front cover clockwise to install the sun shield according to the arrow direction as shown in Figure 7-6(right).

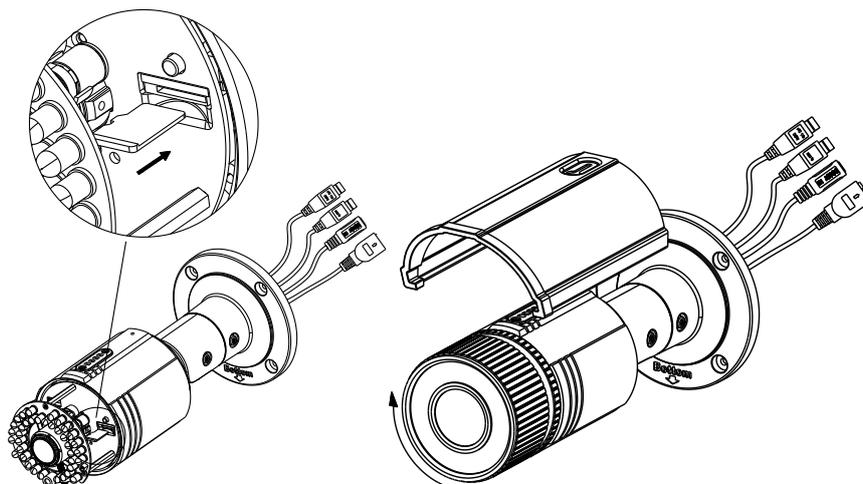


Figure 7-6 Install the SD Card

- 6). Slide the sun shield according to the arrow direction as shown in Figure 7-7(left).
- 7). Tighten the lock screw on the sun shield.

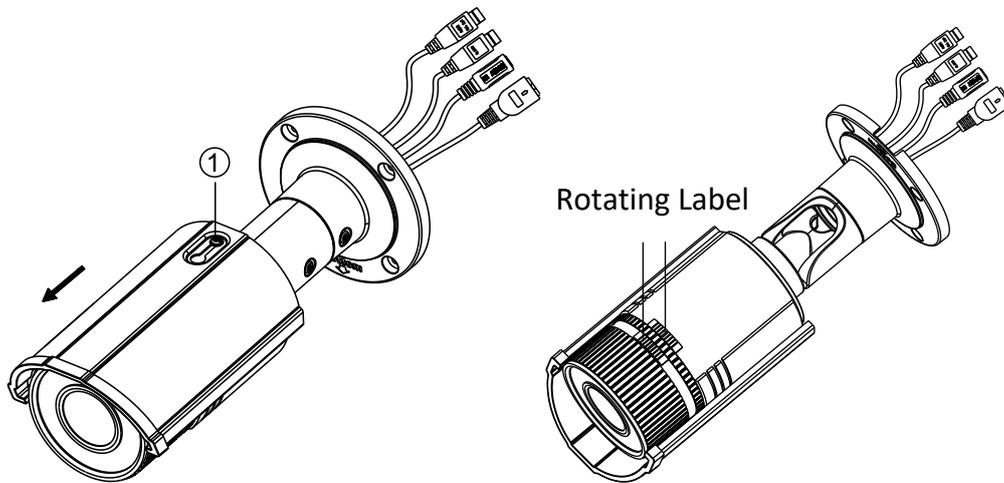


Figure 7-7 Assemble the Camera

**NOTE:** For water-proofing, please align the rotating label on the front cover with that on the camera when you rotate the front cover clockwise. Refer to Figure 7-7 , above (right).

#### INSTALLATION — WALL MOUNT

**Steps:**

- 1). Attach the drill template (supplied) to the wall where the camera is to be mounted.
- 2). Drill screw holes in the wall according to the No.1 hole of the drill template.

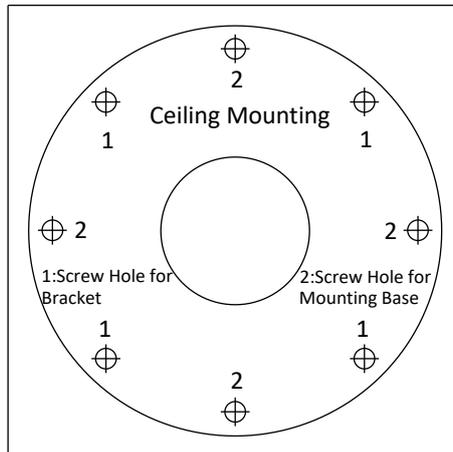


Figure 7-8 Drilling Holes in the Wall

- 3). If you need to route cables through the wall (or 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 ceiling.
- 4). Route the cables of the camera.

- 5). Secure the camera to the wall (or ceiling) with expansion screws. Refer to Figure 7-9.

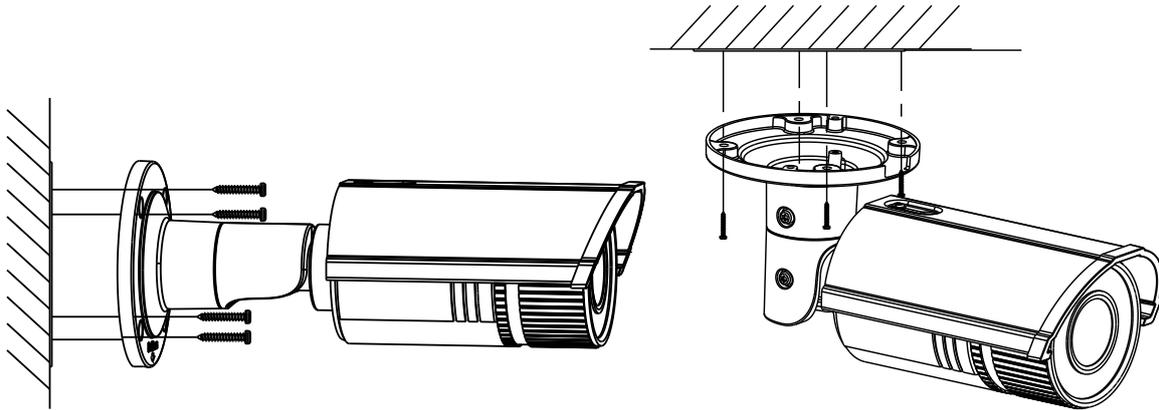


Figure 7-9 Secure the Camera

### VIEW ANGLE ADJUSTMENT

3-axis (pan/tilt/rotation) adjusting allows adjustment for optimum camera rotation and placement.

#### PAN ADJUSTMENT

**Steps:**

- 1). Loosen the lock screw-1.
- 2). Adjust the panning position of the camera. The adjusting range is from 0 degrees to 360 degrees.
- 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 degrees to 90 degrees.
- 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 degrees to 360 degrees.
- 3). Tighten the lock screw-3.

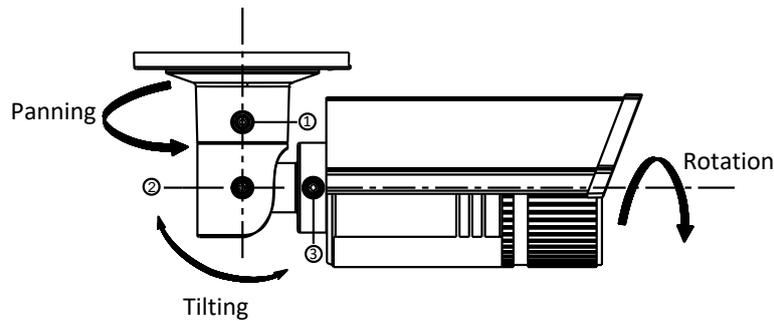


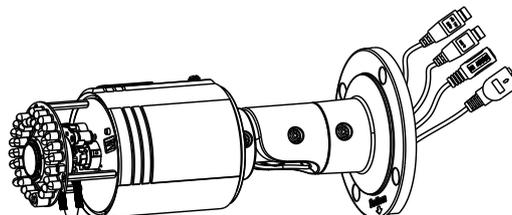
Figure 7-10 Lens Adjustment

## ZOOM AND FOCUS ADJUSTMENT

You can use the zoom lever and focus lever to adjust the zoom value and focus value.

### Steps:

- 1). Disassemble the camera.
- 2). View the camera image using the monitor.
- 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 screw between F (Far) and N (Near) to obtain the optimum focus.
- 6). Tighten the focus lever.
- 7). Assemble the camera.



Zoom/Focus Lever

Figure 7-11 Zoom and Focus Adjustment

### 7.3 VX-3M-B-RIAWD, VX-3M20-B-RIAWD

#### CAMERA DESCRIPTION

The overview of the network bullet camera is shown below. Please note the amount of cables included in the harness will vary between models.

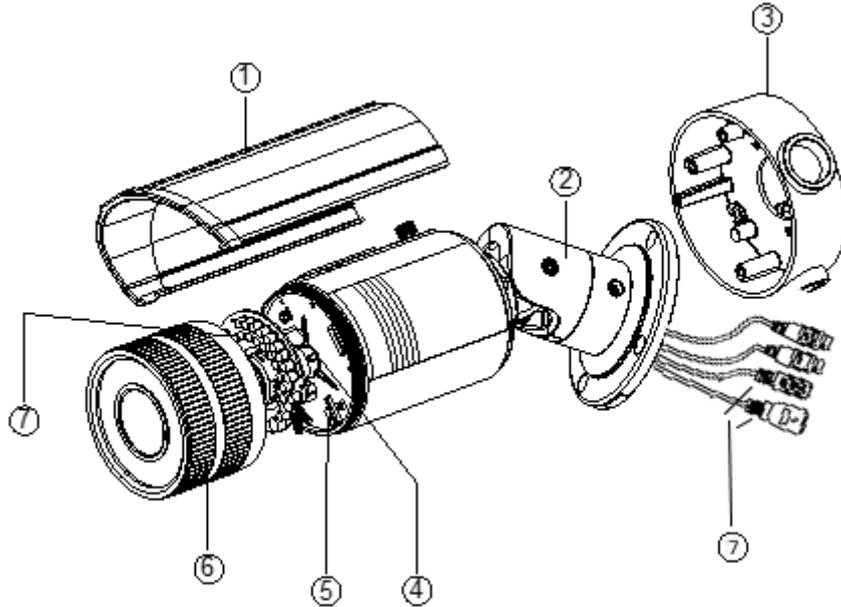


Figure 7-12 Overview

Number	Description	Number	Description
1	Sun Shield	2	Bracket
3	Junction Box	4	Reset
5	SD Card Slot	6	Front Box
7	Analog Video Output	7	DC12V; Power Interface LAN; Network Interface

Label	Definition
AUDIO IN	Audio Input Interface
AUDIO OUT	Audio Out Interface
D+, D-	RS-485 Interface
IN, G	Alarm Input Interface
1A, 1B	Alarm Output Interface

**AVAILABLE MOUNTS**

- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

These cameras have a built-in mount for wall and ceiling mount applications.

**INSTALLATION — CEILING/WALL MOUNT**

**Steps:**

- 1). Drill four screw holes in the wall according to the No.2 holes of the supplied drill template.

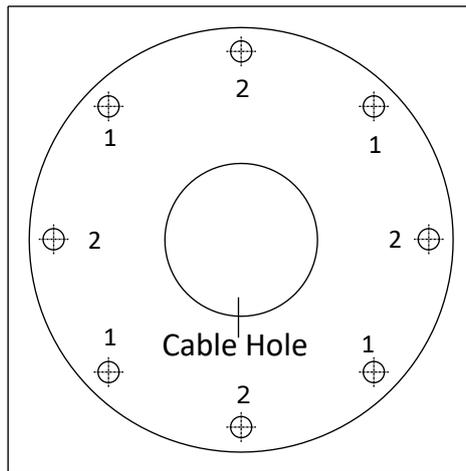


Figure 7-13 Drill Template

- 2). Drill one cable hole according to the sign shown on the drill template.

**NOTE:** If you want to route the cables through the side of the junction box, you can skip this step.

- 3). Secure the junction box to the wall with the expansion screws.

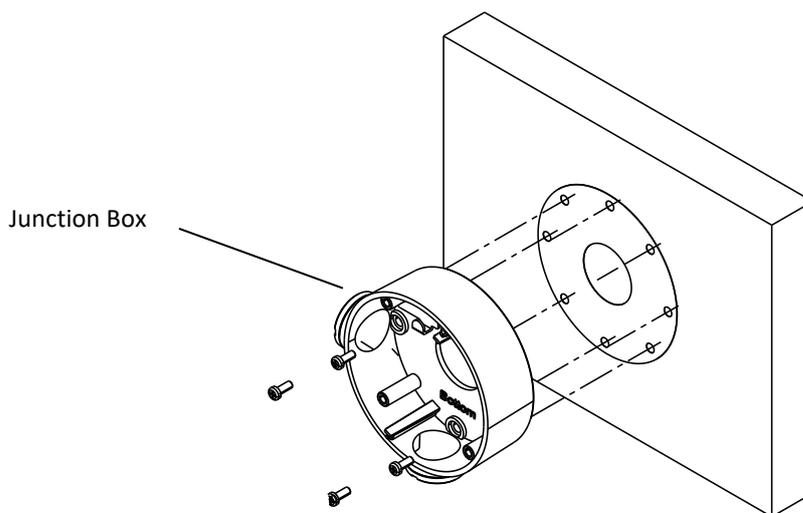


Figure 7-14 Install the Junction Box

- 4). Route the cables of the camera.
  - a. Route the cables through the junction box and the cable hole if there is a cable hole drilled on the ceiling.
  - b. Route the cables through the side outlet of the junction box to the surface of the ceiling if there is no cable hole drilled on the ceiling.
- 5). Hook the camera to the junction box with the safety rope.
- 6). Tighten the screws to attach the camera to the junction box.

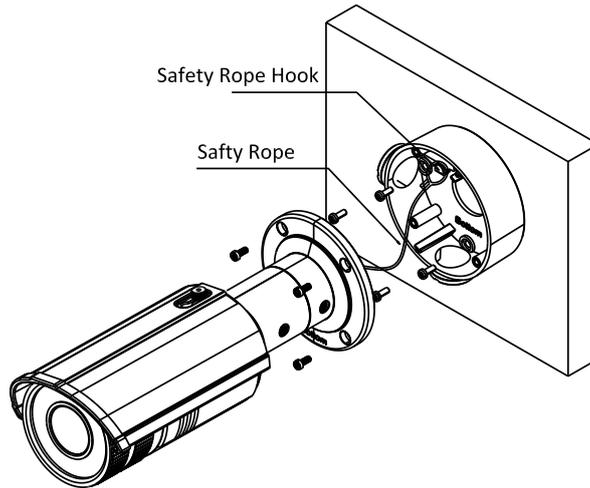


Figure 7-15 Attach the Camera to the Junction Box

- 7). Adjust the camera to the desired surveillance angle and then tighten the screws on bracket to secure the camera.

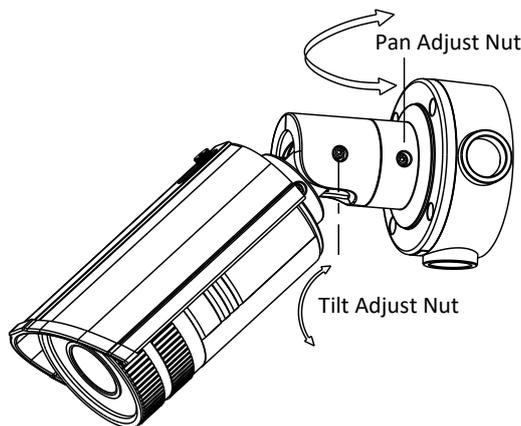


Figure 7-16 Adjust Monitoring Angle\

**NOTE:** Please loosen the screws slightly until you can adjust the camera. Do not completely remove the screws from the bracket.

**NOTE:** After the monitoring angle is adjusted, you may need to install a water-proof rubber case (purchased separately) to the foldable position of the bracket if a water-proof application is desired.

- 8). Loosen the lock screw on the sun shield and remove the sun shield.
- 9). Rotate to remove the front box from camera and adjust the zoom lever and focus lever to get a clear image.

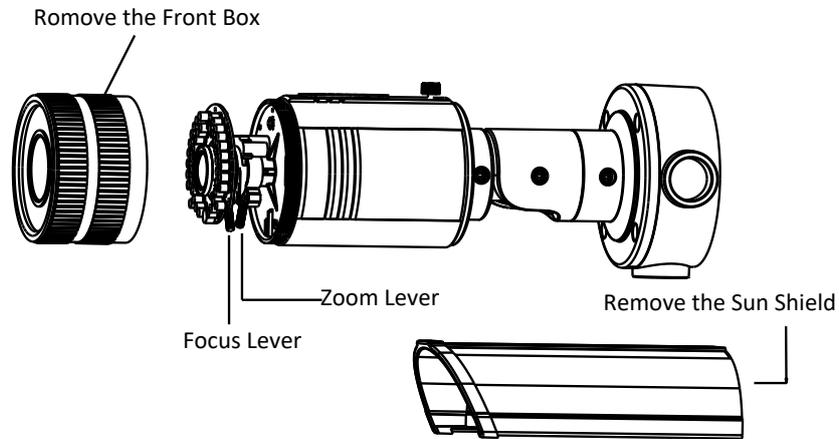


Figure 7-17 Lens Adjustment

- 10). Reinstall the front box and the sun shield to finish the installation.

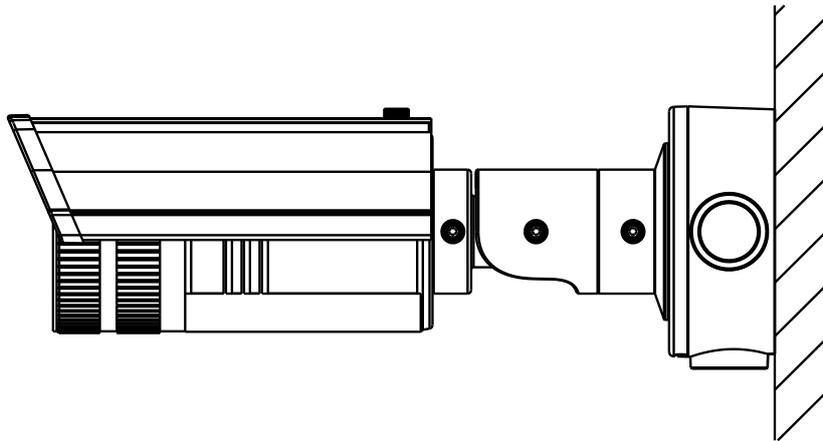


Figure 7-18 Installation Complete

# 8 Multi-Sensor 180° Panoramic Dome Camera

## 8.1 VX-8S-180-AWD

### CAMERA DESCRIPTION

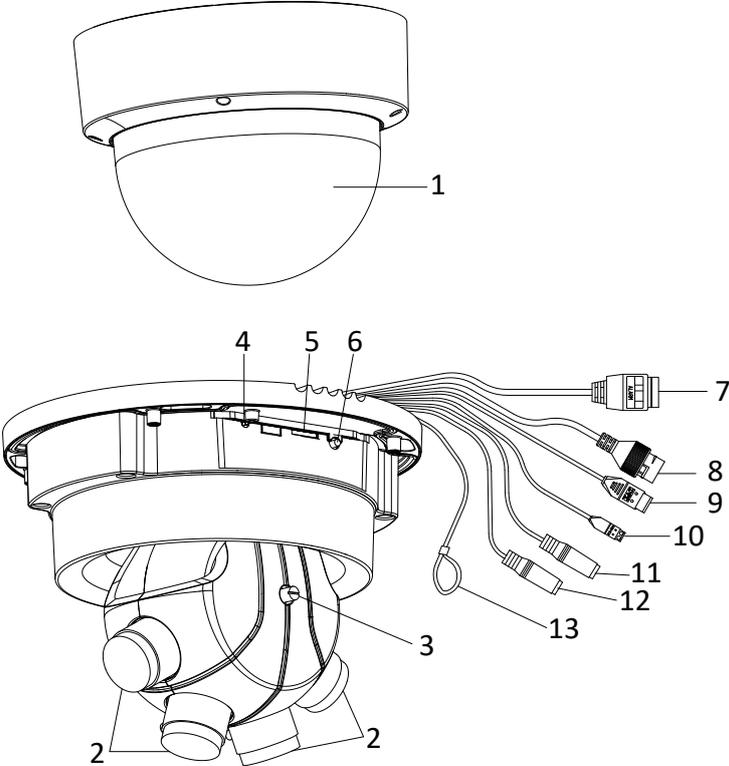


Figure 8-1 Overview

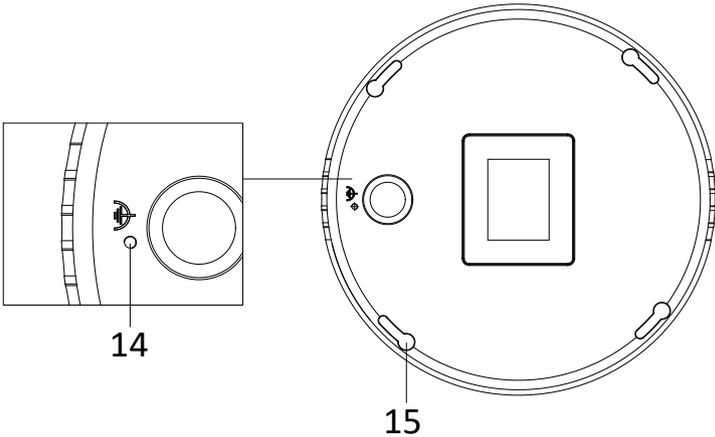


Figure 8-2 Overview (2)

Number	Description		
1	Dome cover		
2	Lens group		
3	Tilt adjusting screw		
4	Status indicators	Power indicator	Solid red: power on
		Network indicator	Blue flicker: active network communication
			Others: abnormal
5	Memory card slot		
6	Reset		
7	Alarm input/output cable		
8	10M/100M/1000M self-adaptive Ethernet port		
9	Power supply interface		
10	RS-485 interface		
11	Audio output		
12	Audio input		
13	Safety rope		
14	Grounding screw		
15	Expansion screw hole		

**NOTE:** Press RESET about 10s when the camera is powering on or rebooting to restore the default settings, including the user name, password, IP address, port No., etc.

#### AVAILABLE MOUNTS

- 180° Wall Mount Bracket (3xLOGIC Product #: [VX-8S-180-BWM](#))
- 180° Pendant Mount Bracket (3xLOGIC Product #: [VX-8S-180-BPM](#))
- Universal Corner Mount (3xLOGIC Product #: [VX-CM](#))
- Universal Pole Mount (3xLOGIC Product #: [VX-POLE](#))

### INSTALLATION — MICRO SD CARD

This series of cameras support memory card installation. Follow the steps in below to complete installation.

**NOTE:** Memory card is not included in the package. You have to prepare a memory card before installation.

**Steps:**

- 1). Remove the dome cover to expose the memory card slot on camera base.
- 2). Insert the memory card into the memory card slot.

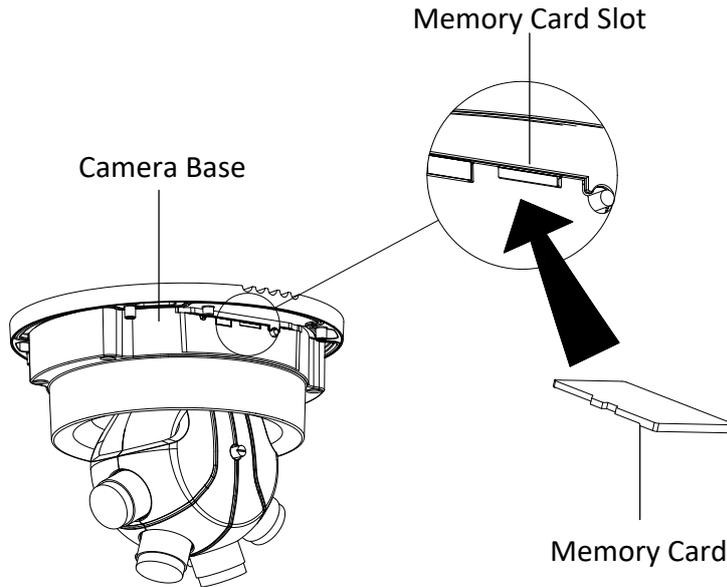


Figure 8-3 Memory Card Installation

- 3). If you want to demount the memory card, push it to eject.

### INSTALLATION — CEILING MOUNT

**Steps:**

- 1). Drill the screw holes and the cable hole according to the supplied drill template.

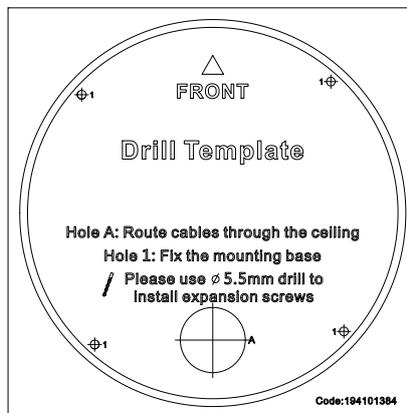


Figure 8-4 Drill Template

- 2). Screw the expansion bolts into the drilled screw holes.

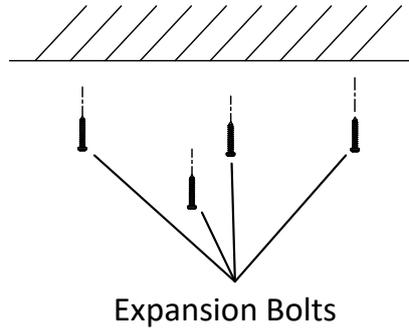


Figure 8-5 Install the Expansion Bolts

**NOTE:** The bolts should not be too loose to drop out, or too tight to secure the camera.

- 3). Align the expansion bolts with the screw holes on camera base. Slightly rotate the camera body clockwise.

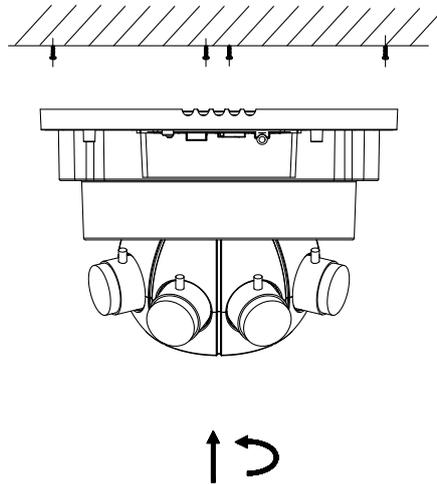


Figure 8-6 Align the Camera with the Expansion Bolts

- 4). Tighten the expansion bolts to secure the camera.

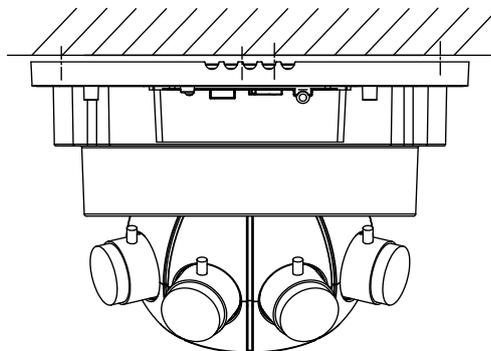


Figure 8-7 Secure the Camera to the Ceiling

- 5). Adjust the surveillance angle.
  - a. Connect the cables and apply power to the camera.
  - b. View the live view image on your monitor.
  - c. Adjust the panning position from 0° to 355°.

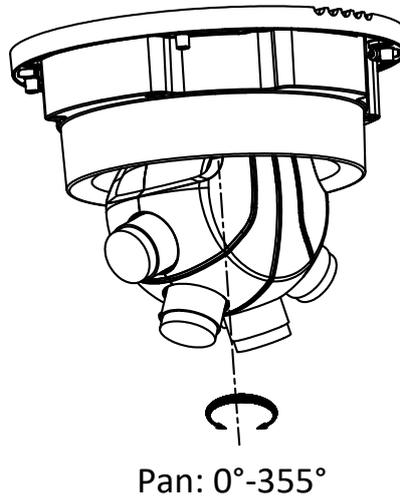


Figure 8-8 Adjust Panning Position

- 6). Use a flat-bladed screwdriver to loosen the tilt adjusting screw and adjust the tilting position from 0° to 60°. Tighten the screw when finishing adjusting.

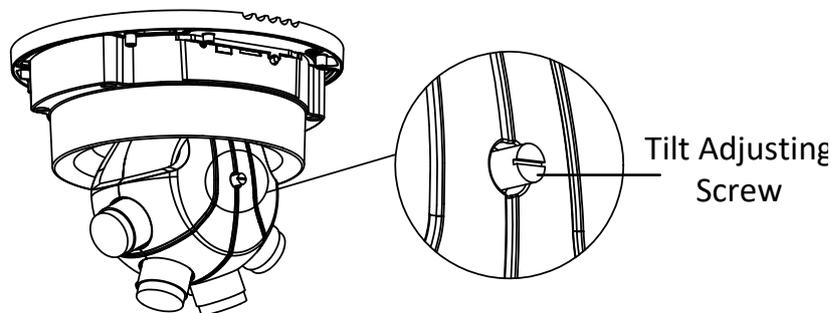


Figure 8-9 Adjust Tilting Position

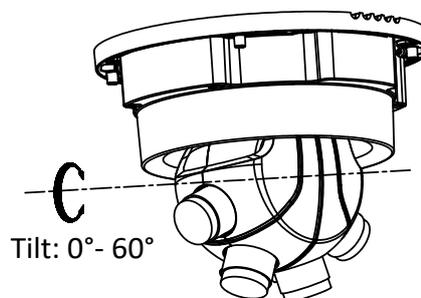


Figure 8-10 Adjust Tilting Position

- 7). Place the dome cover on the camera body with the screw holes aligned. Secure the dome cover with the supplied screws and screwdriver.

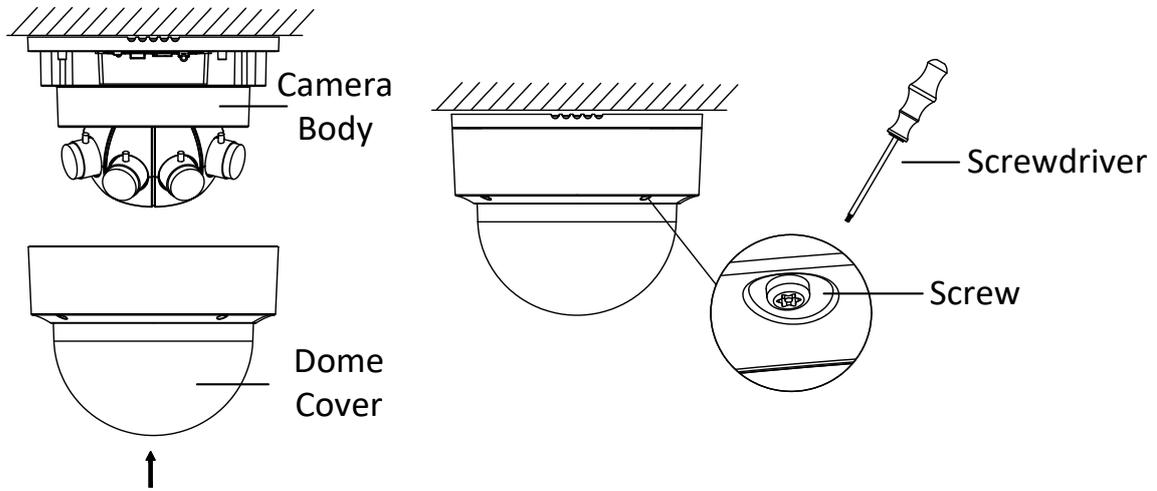


Figure 8-11 Install the Dome Cover

#### INSTALLATION — WALL MOUNT

**NOTE:** Wall mounting bracket is not included in the package. You need to prepare a wall mounting bracket if this mounting type is selected. The bracket shown in the following demonstration is only for reference.

**Steps:**

- 1). Route the cables and fix the wall mounting bracket to the wall with the screws.

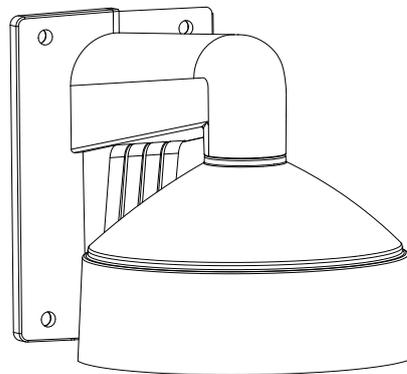


Figure 8-12 Install the Wall Mount Bracket

**NOTE:** Insert the expansion screws first if the camera is mounted to the cement wall, and you can use the self-tapping screws directly if camera is mounted to the wooden wall.

- 2). Insert the screws half-deep into the screw holes on the cap.

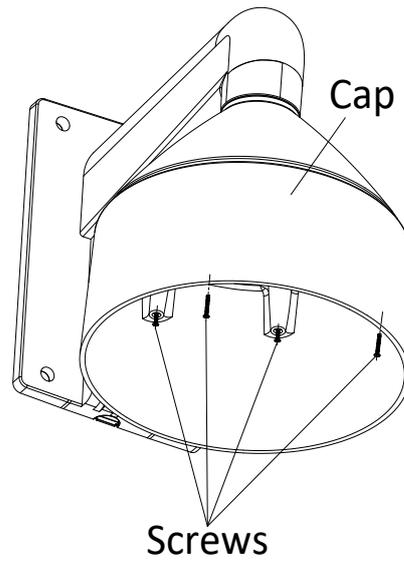


Figure 8-13 Install the Screws

- 3). Hook the camera to the wall mounting bracket with the safety rope.

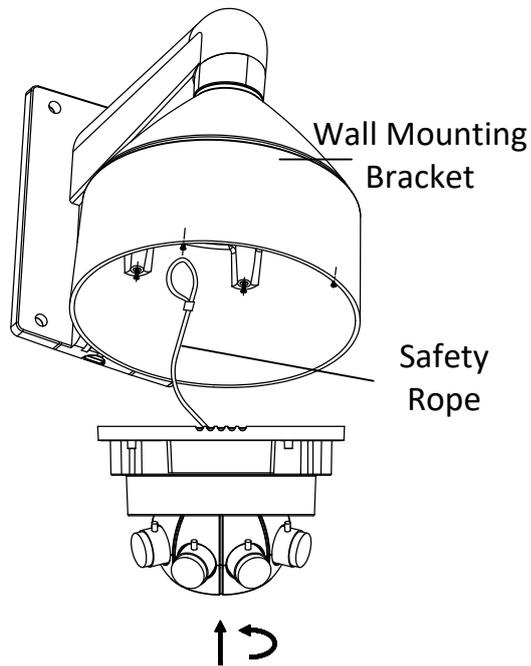


Figure 8-14 Install the Camera to the Bracket (1)

- 4). Connect the cables.
- 5). For water-proofing, you can install a water-proof jacket to network cable and apply thread seal tape to other cable connections.
- 6). Align the screws holes on the camera base to the installed screws, and rotate the camera clockwise to hook to the camera to the screws.
- 7). Fasten the screws to secure the camera to the bracket.

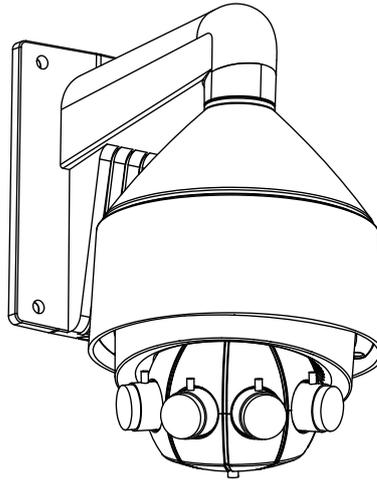


Figure 8-15 Install the Camera to the Bracket (2)

- 8). Adjust the surveillance angle. Refer to **Step 5 in Section 8.1's Installation — Ceiling Mount.**
- 9). Place the dome cover on the camera body with the screw holes aligned. Secure the dome cover with the supplied screws and screwdriver.

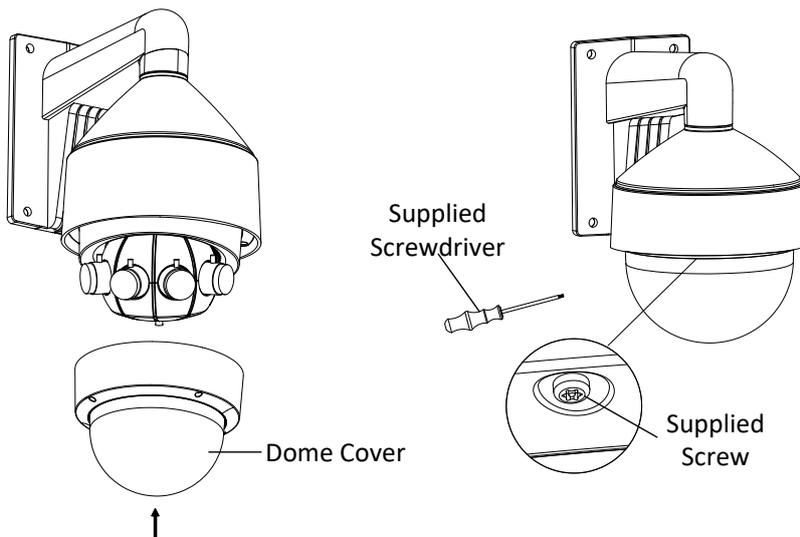


Figure 8-16 Install the Dome Cover

**INSTALLATION — PENDANT MOUNT**

**NOTE:** Pendant mounting bracket is not included in the package. You need to prepare a pendant mounting bracket if this mounting type is selected. The bracket shown in the following demonstration is only for reference.

**Steps:**

- 1). Route the cables and fix the pendant mounting bracket to the ceiling with screws.

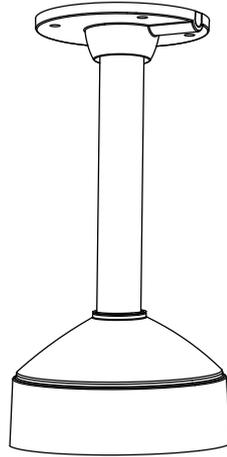


Figure 8-17 Install the Pendant Mount Bracket

**NOTE:** Please insert the expansion screws first if the camera is mounted to the cement ceiling, and you can use the self-tapping screws directly if camera is mounted to the wooden ceiling.

- 2). Insert the screws half-deep to the screws holes in the cap.

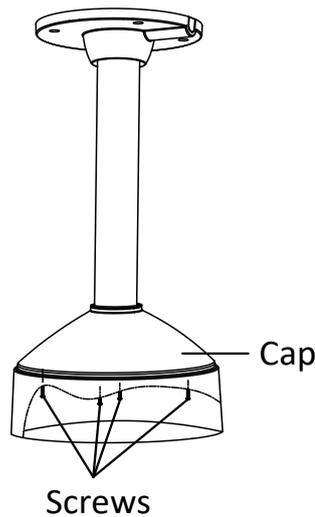


Figure 8-18 Install the Screws

- 3). Hook the camera to the pendant mounting bracket with the safety rope.



Figure 8-19 Install the Camera to the Bracket (1)

- 4). Connect the cables.
- 5). For water-proofing, you can install a water-proof jacket to network cable **refer to [Section 8.2](#)** and apply thread seal tape to other cable connections.
- 6). Align the screws holes on the camera base to the installed screws, and rotate the camera clockwise to hook to the camera to the screws.
- 7). Fasten the screws to secure the camera to the bracket.

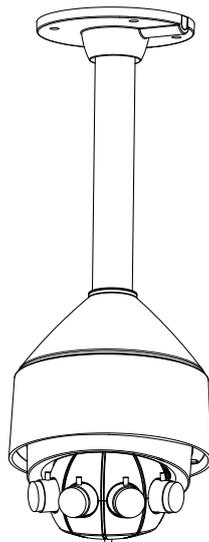


Figure 8-20 Install the Camera to the Bracket (2)

- 8). Adjust the surveillance angle. Refer to **Step 5 in Section 8.1 [Installation — Ceiling Mount](#)**.
- 9). Place the dome cover on the camera body with the screw holes aligned. Secure the dome cover with the supplied screws and screwdriver.

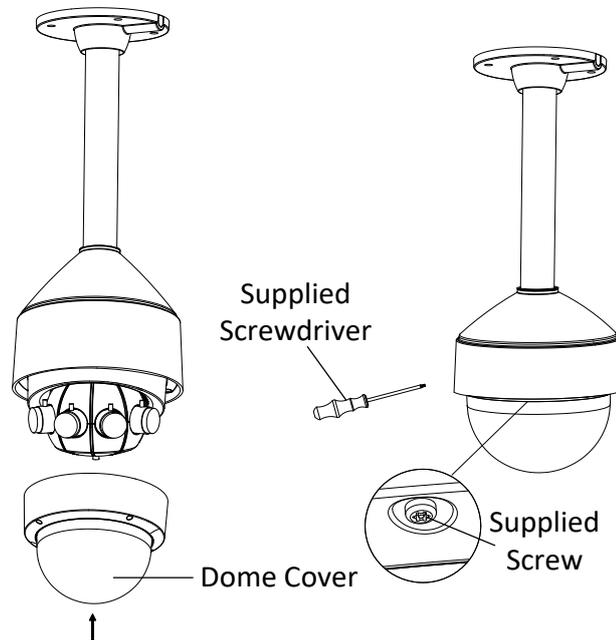


Figure 8-21 Install the Dome Cover

## 8.2 Waterproof Network Cable Jacket (Optional)

If the camera is installed outdoor, you can adapt the water-proof accessory for the network cable after the camera is secured on the installation surface.

### ACCESSORY COMPONENTS

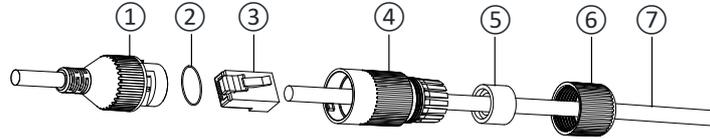


Figure 8-22 Waterproof Accessory Components

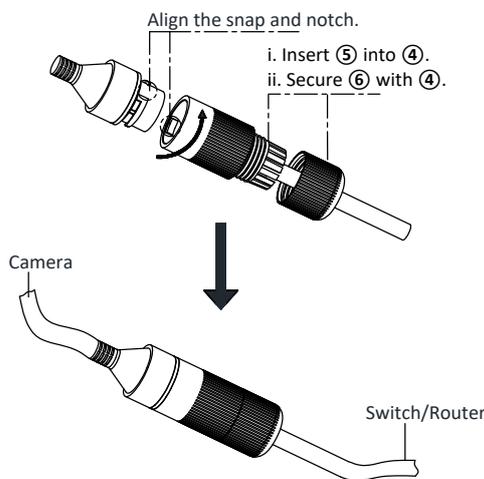


Figure 8-23 Waterproof Accessory Installation

Number	Components
1	Camera's Network Interface Socket
2	O-Type Gasket
3	Network Plug
4	Waterproof Endcap
5	Waterproof Rubber Gasket
6	Lock Nut
7	Network Cable from Router/Switch

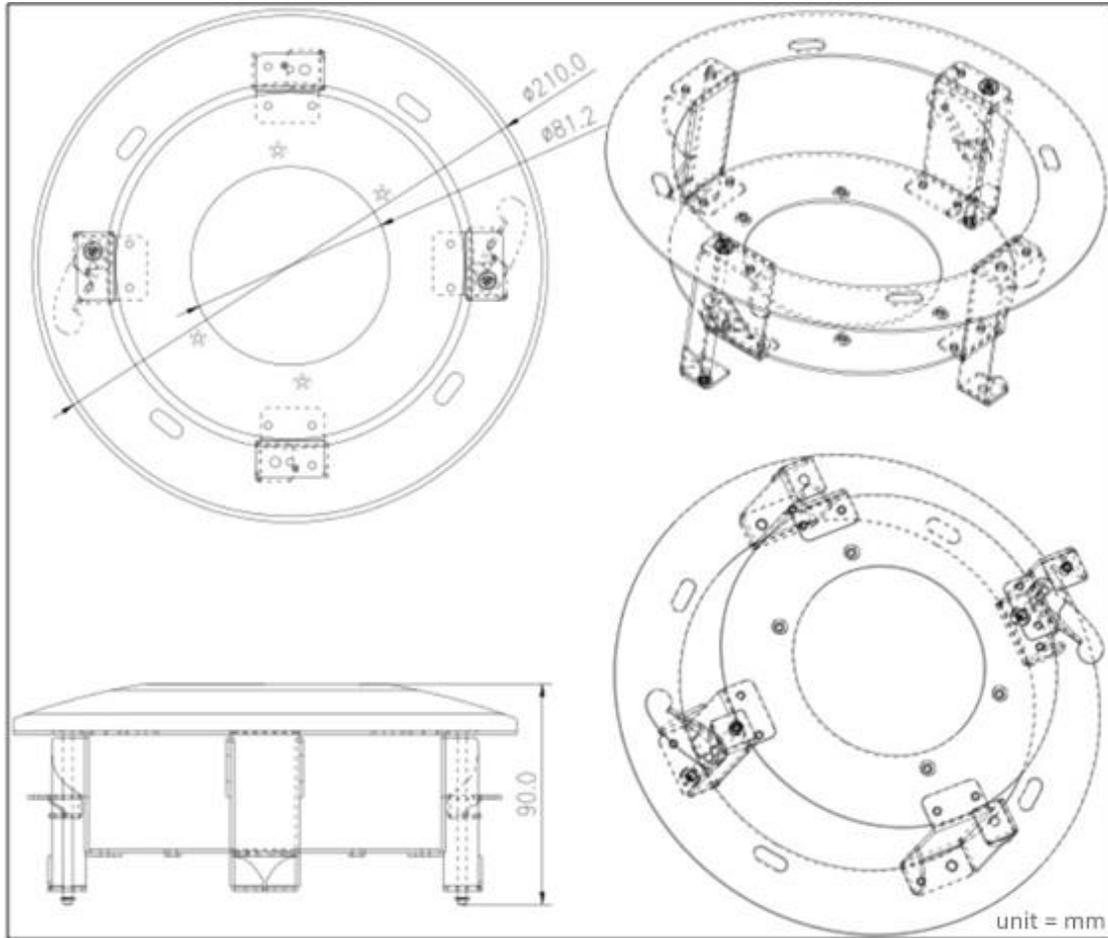
### INSTALLATION — WATERPROOF ACCESSORY

#### Steps:

- 1). Feed the plugless network cable ⑦ through the lock nut ⑥, waterproof rubber gasket ⑤ (rubber gasket inset ridge must face waterproof endcap), and the water-proof endcap ④ in order.
- 2). Crimp an RJ-45 network plug ③ onto the end of the cable, taking care to insert the twisted pairs of wires in correct order.
- 3). Place the O-type gasket ② onto the end of the camera's network interface socket ①.
- 4). Insert the network plug ③ into the camera's network interface socket ①.
- 5). Insert the water-proof rubber gasket ⑤ into the waterproof endcap ④, and secure lock nut ⑥ with the water-proof endcap ④.
- 6). Align the snap on the water-proof endcap ④ with the notch on the camera's network interface socket ①, and then secure the water-proof endcap ④ to the camera's network interface socket ① to finish installation.

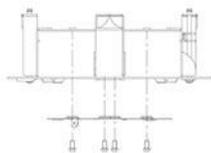
# 9 Mount Schematics

## 9.1 D2 Ceiling Flush Mount (VX-FM-D2)



### Installation Step:

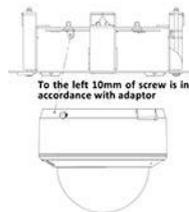
① Choose flat ceiling for installation and screw in the adaptor



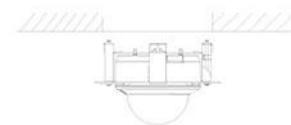
② Complete the adaptor installation



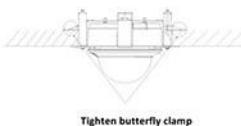
③ Screw in the dome camera



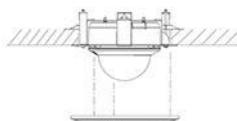
④ Insert the dome camera and bracket to the wall



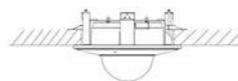
⑤ Screw in the butterfly clamps clock-wise to clamp the bracket to the ceiling



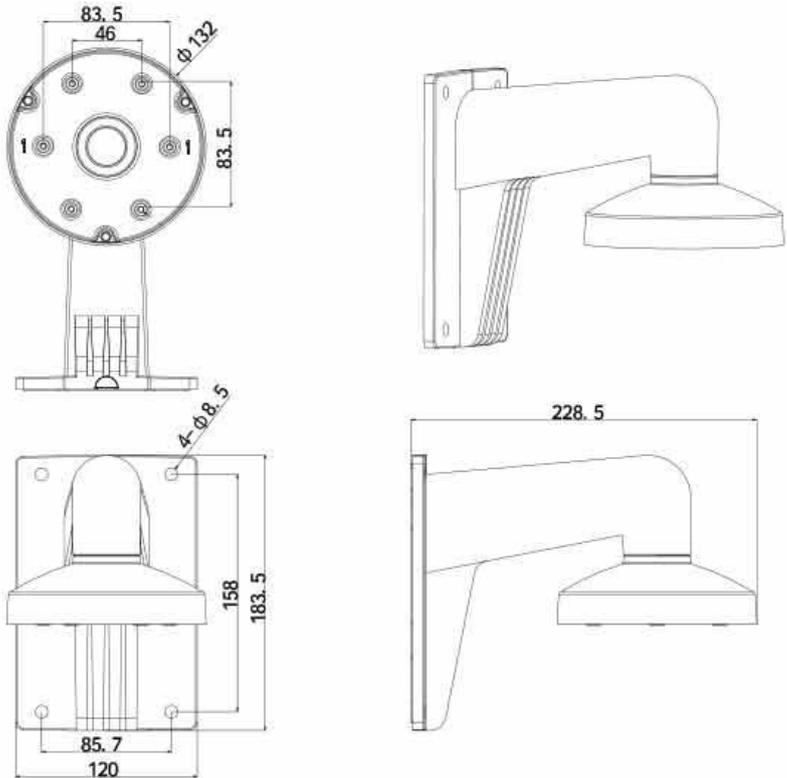
⑥ Tighten 3 screws to affix cap ring



⑦ Installation complete

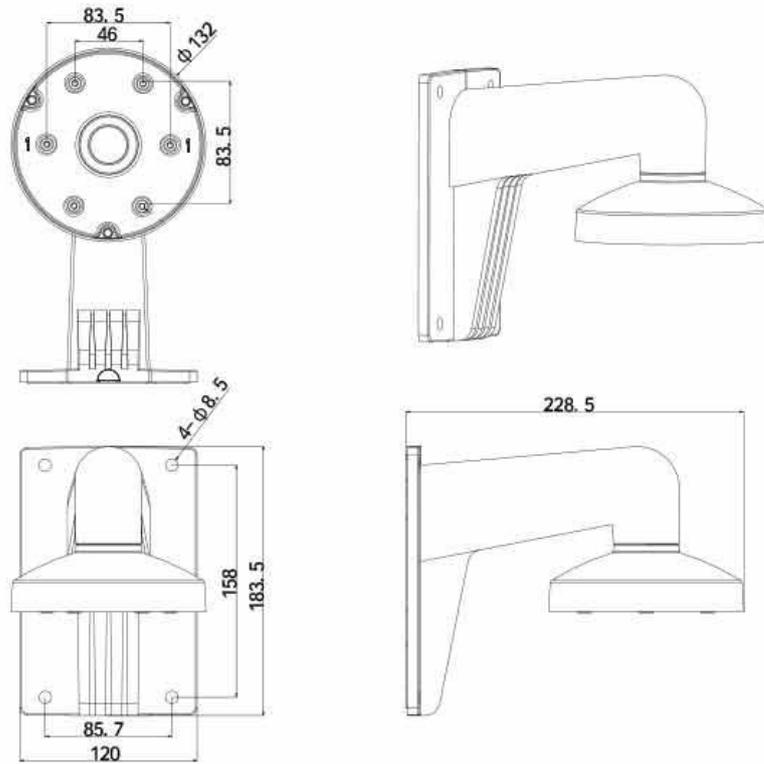


9.2 D2 Wall Mount Adapter (VX-WM-D2)



Unit: mm

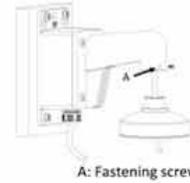
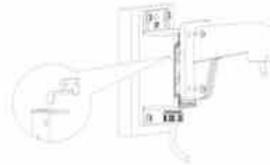
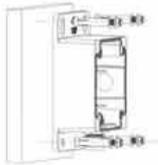
### 9.3 D2 Wall Mount with Junction Box (VX-WMJ-D2)



Unit: mm

#### Installation Step:

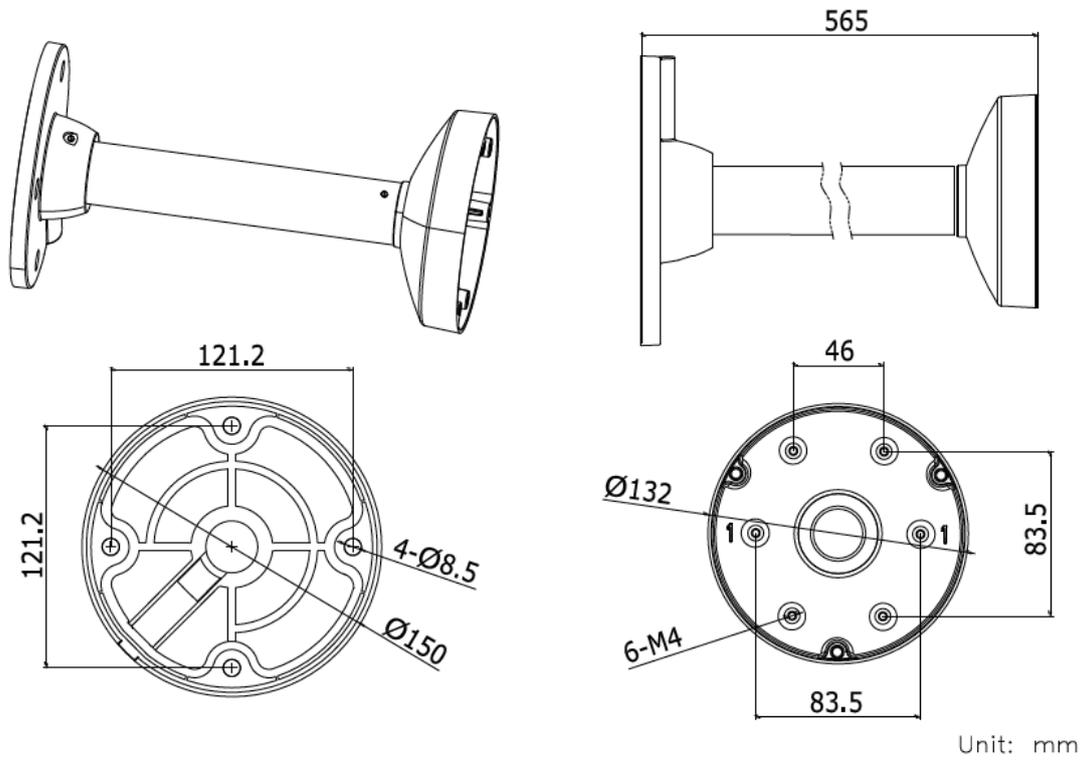
- ① Choose the appropriate wall to affix the junction box
- ② Pull wiring through waterproof gasket
- ③ Install bracket to junction box; wiring and screw in
- ④ Affix cap to bracket with fastening screw
- ⑤ Take adaptor from the case of dome camera
- ⑥ Check the hole site and affix adaptor to cap
- ⑦ Connect wiring to camera and affix camera to adaptor
- ⑧ Rotate the dome camera moderately and tighten fastening screw on dome. Installation complete



B: Bayonet of adaptor

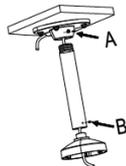
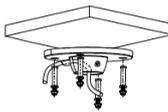
C: Fastening screw on dome

### 9.4 D2 Pendant Mount (VX-PM-D2)

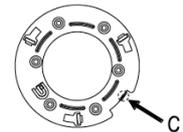


#### Installation Step:

- ① Choose the appropriate wall to install the ceiling plate and wiring
- ② Connect pole and adaptor cap; wiring and screw up
- ③ Screw up in A & B and fix pendant pole and cap
- ④ Screw the dome to the cap
- ⑤ Check the hole site and fix adaptor to cap
- ⑥ Wiring and fix dome camera to adaptor
- ⑦ Rotate the dome camera moderately and screw up the fastening screw
- ⑧ Installation complete



A & B: Fastening screw



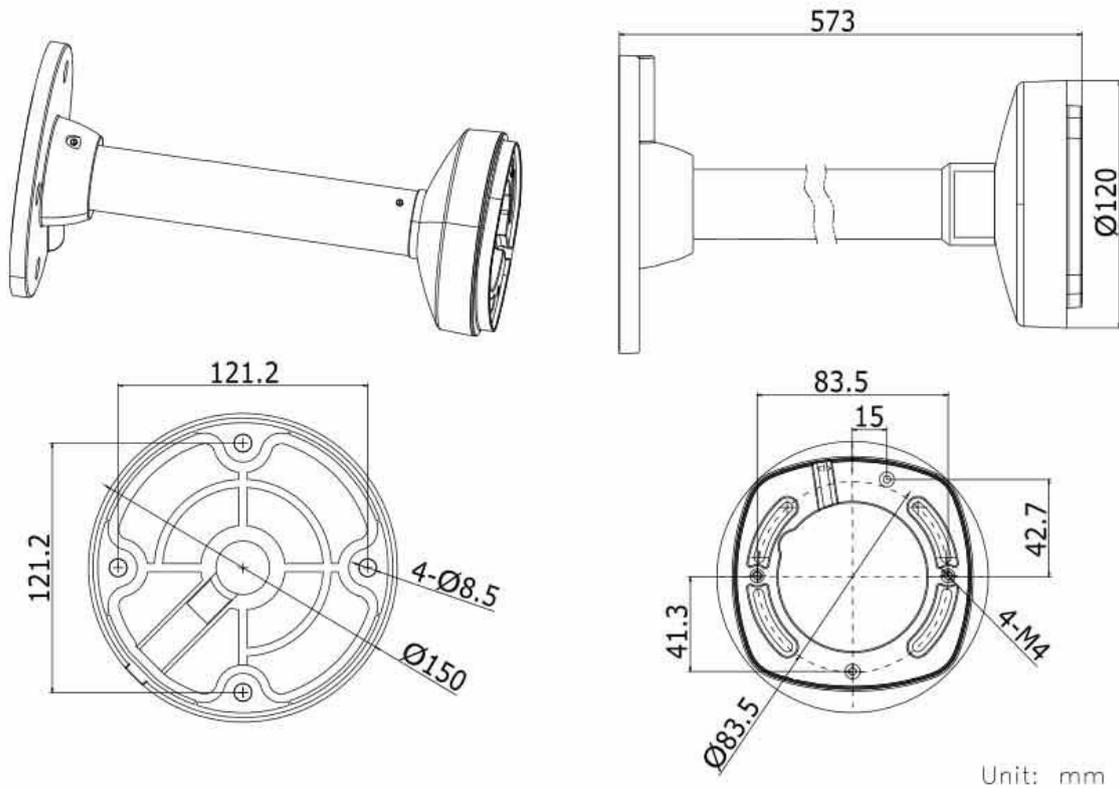
C: Bayonet of dome adaptor



D: Fastening screw on dome



### 9.5 MD Pendant Mount (VX-PM-MD)



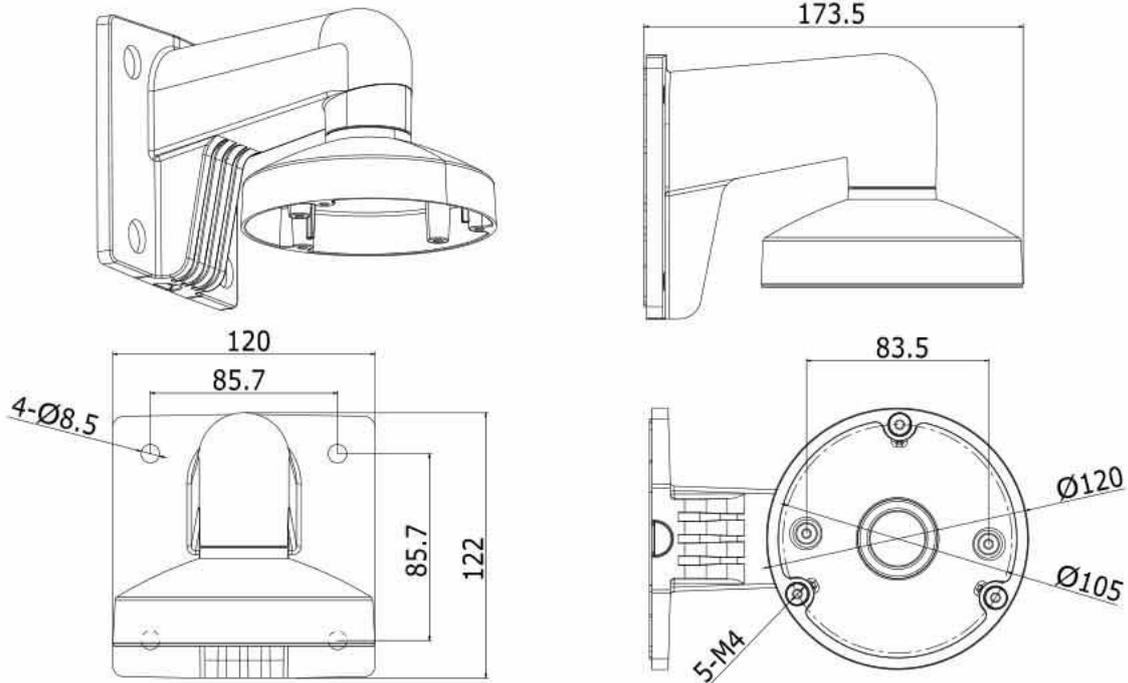
#### Installation Step:

- ① Choose the appropriate location to install the ceiling plate

Outdoor  
Indoor  
Waterproof rubber is necessary for outdoor application
- ② Connect pole to base via threaded end; pull the cable through

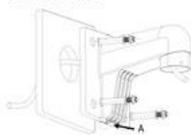
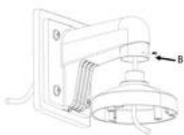
A&B: Rotate B Clockwise to A to tighten
- ③ Mount properly
- ④ Take off the lower dome and check the hole site of adapter plate
- ⑤ Install the adapter to the bracket and affix with provided screws
- ⑥ Connect the cable to camera and affix the camera to the adapter plate with provided screws
- ⑦ Modify the angle of view of the camera, screw in the lower dome
- ⑧ Installation complete.

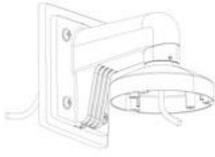
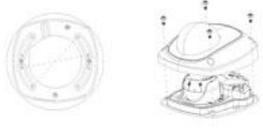
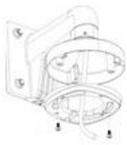
### 9.6 MD Wall Mount (VX-WM-MD)

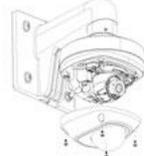
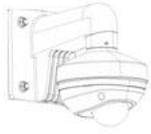


Unit: mm

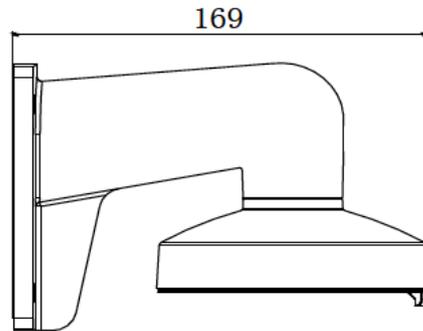
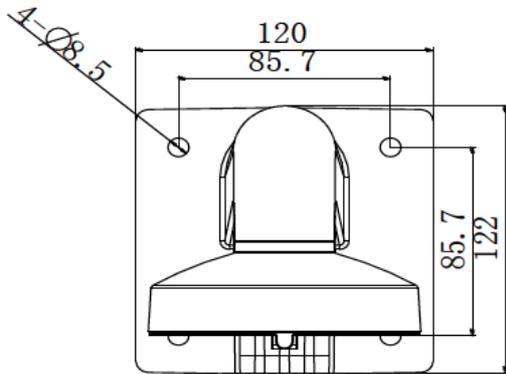
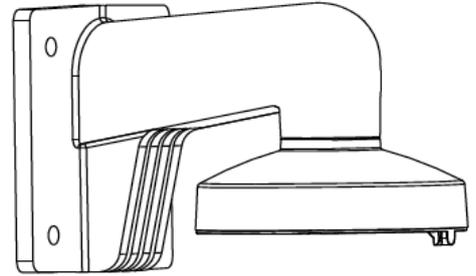
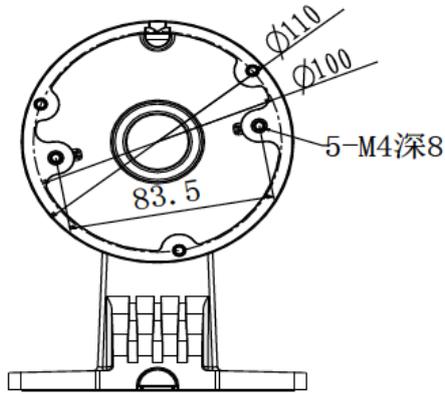
#### Installation Step:

- ① Using the supplied anchor bolts, attach the mount to the appropriate wall and thread the wire through the mount  

- ② Affix the dome adaptor to mount by tightening the fastening screw and continue to thread the wire through  


A: Reserved hole for wiring      B: Fastening Screw
- ③ Completed Assembly of camera mount  

- ④ Remove the transparent cover from the Mini Dome and locate the provided adaptor ring  

- ⑤ Install the adaptor ring to the dome adaptor using the provided screws  

- ⑥ Connect the camera wiring and affix the camera to the adaptor ring  

- ⑦ Modify the camera angle, install the transparent cover  

- ⑧ Bracket Installation complete.  


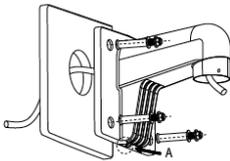
### 9.7 OD Wall Mount (VX-WM-OD)



Ins

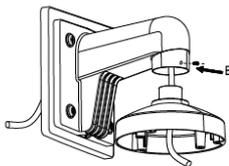
Unit: mm

- ① Choose appropriate wall to install the bracket and thread the cable



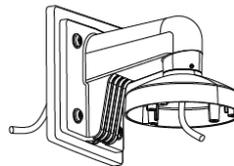
A: Cable entry hole

- ② Fix adaptor to bracket and thread the cable

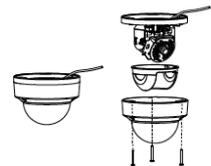


B: Fastening screw

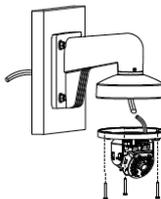
- ③ Screw up and complete the fixation of adaptor



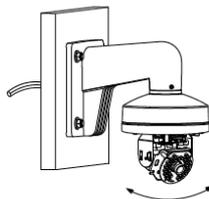
- ④ Take off lower dome, inner module and lining



- ⑤ Complete wiring and fix dome module to cap



- ⑥ Fix the dome module and adjust the angle of view



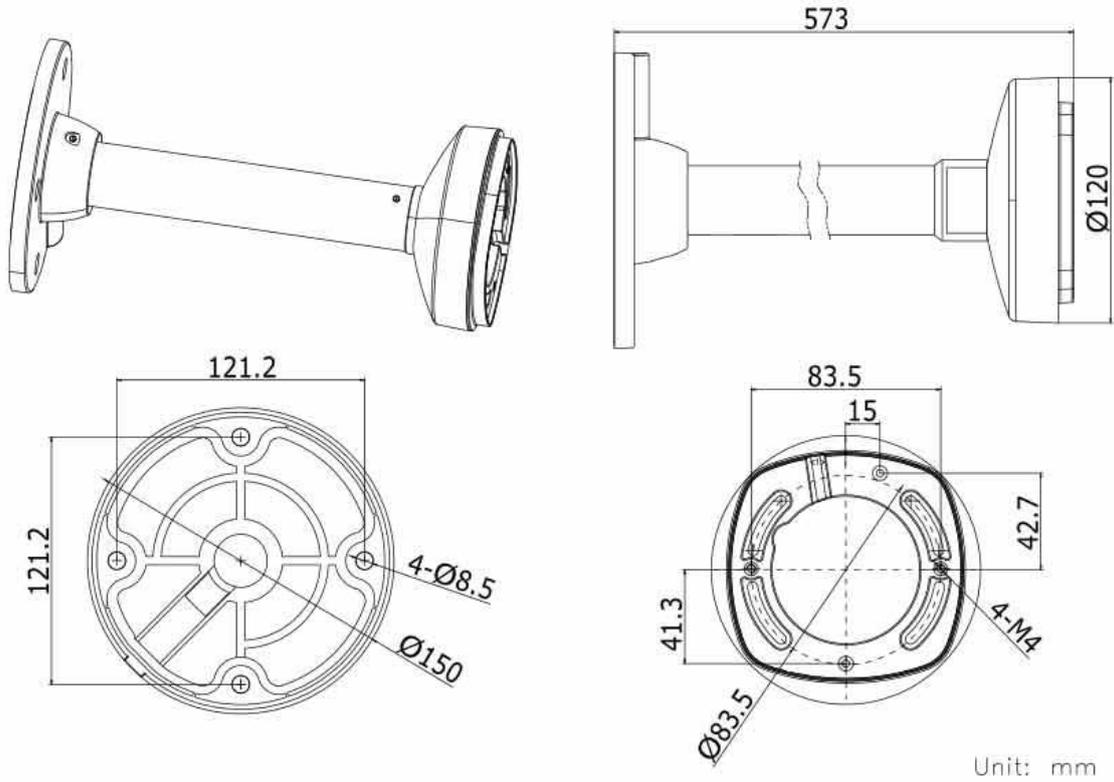
- ⑦ Install lining and lower dome to dome module and screw up



- ⑧ Installation complete

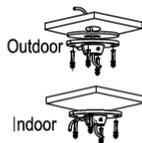


### 9.8 OD Pendant Mount (VX-PM-OD)



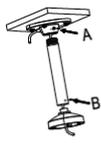
#### Installation Step:

- ① Choose the appropriate wall to install the ceiling plate and thread the cable



Waterproof rubber is necessary for outdoor application

- ② Connect pole and adapter; thread cable and screw up

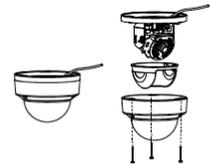


A&B: Tightening Screw

- ③ Screw up and complete the fixation of adapter and pole



- ④ Take off lower dome, inner module and lining



- ⑤ Thread the cable and fix inner module to adaptor



- ⑥ Adjust the view angle of camera



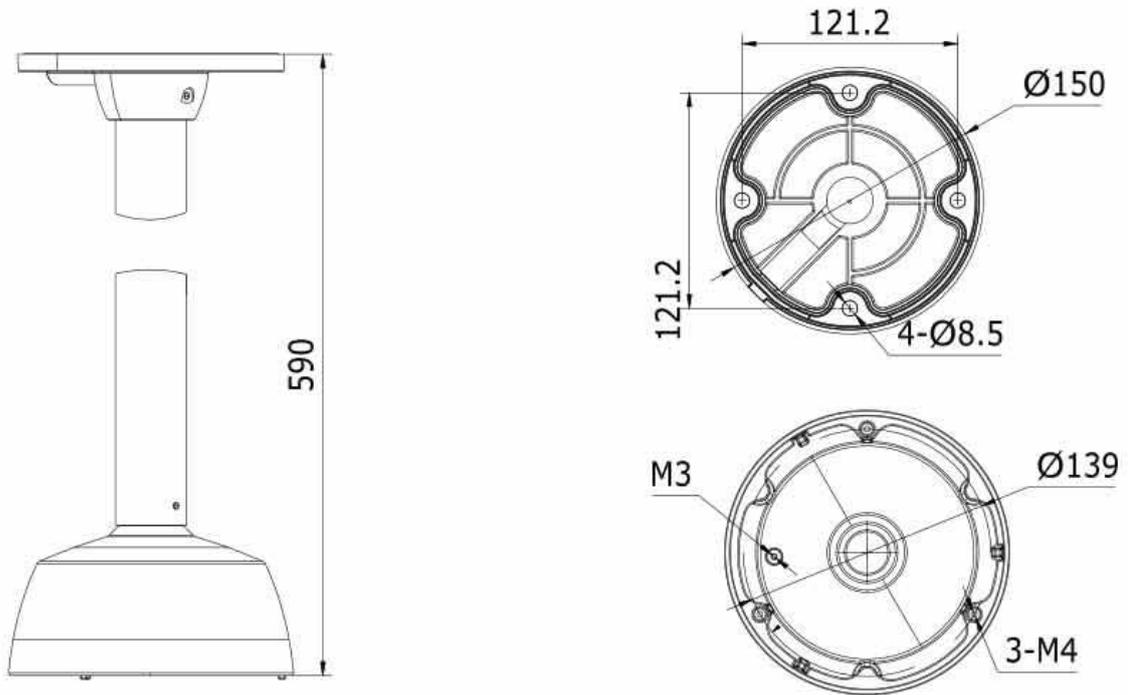
- ⑦ Install lining and lower dome alternatively to inner module and fix them



- ⑧ Installation complete.



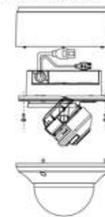
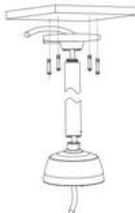
### 9.9 OD2 Pendant Mount (VX-PM-OD2)



Unit: mm

#### Installation Step:

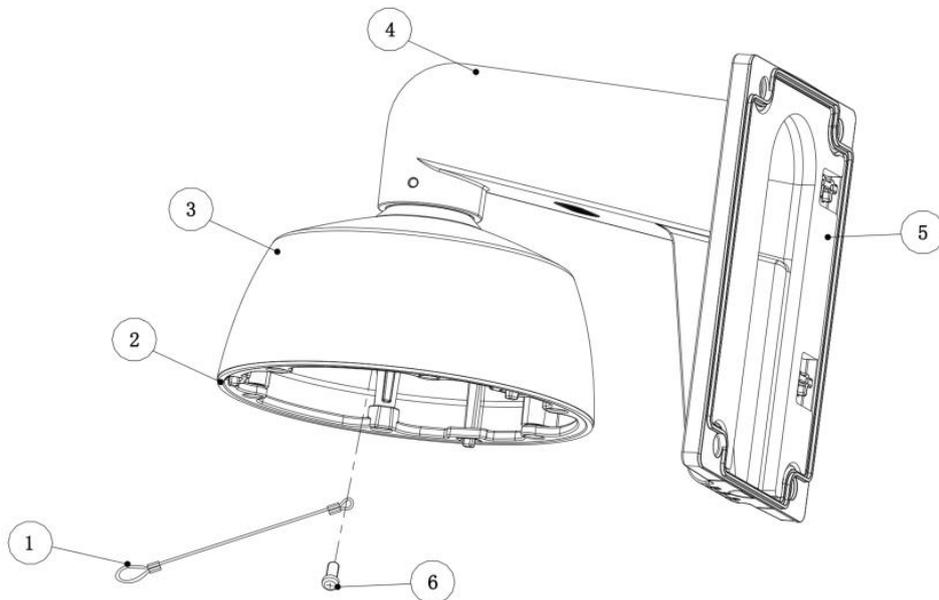
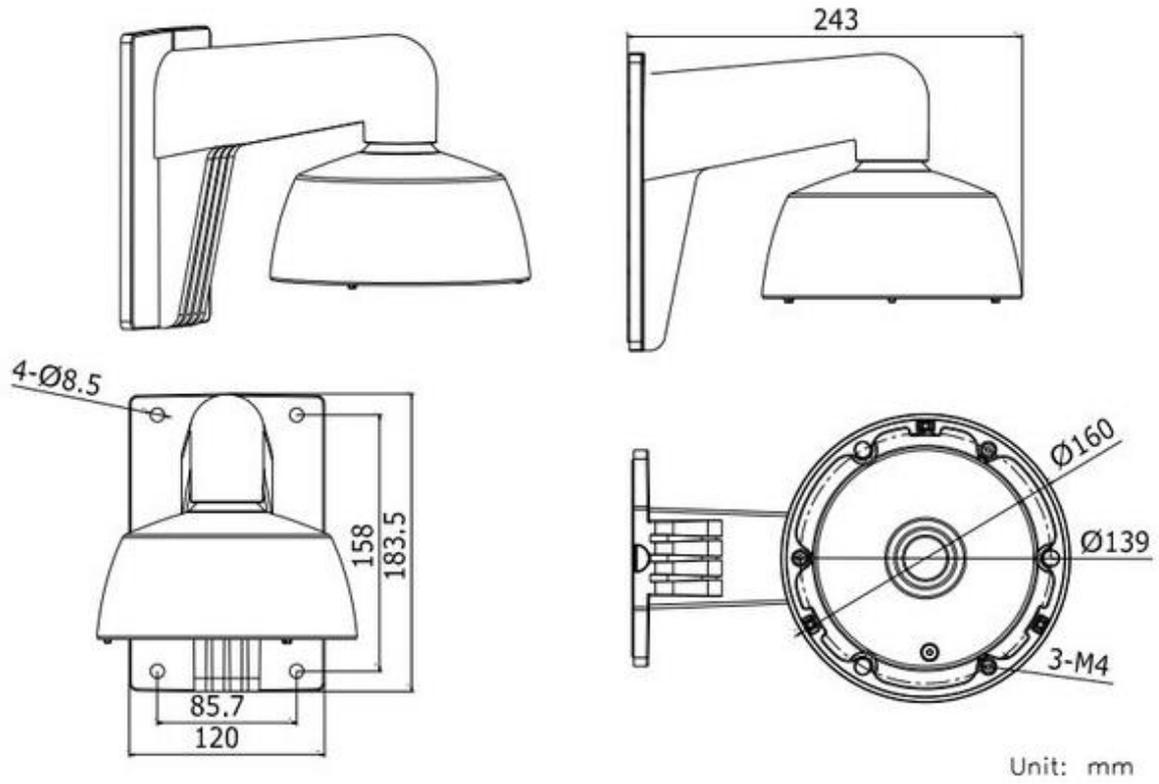
- ① Choose the appropriate area to affix base, pole and cap; pull wiring through base, pole and cap
- ② Complete installation and screw base into solid surface
- ③ Take off lower dome and unscrew the camera module



- ⑤ Attach camera to existing wiring and affix camera module to adaptor. Adjust the angle of view on camera
- ⑥ Affix the lower dome to the camera
- ⑦ Installation Complete

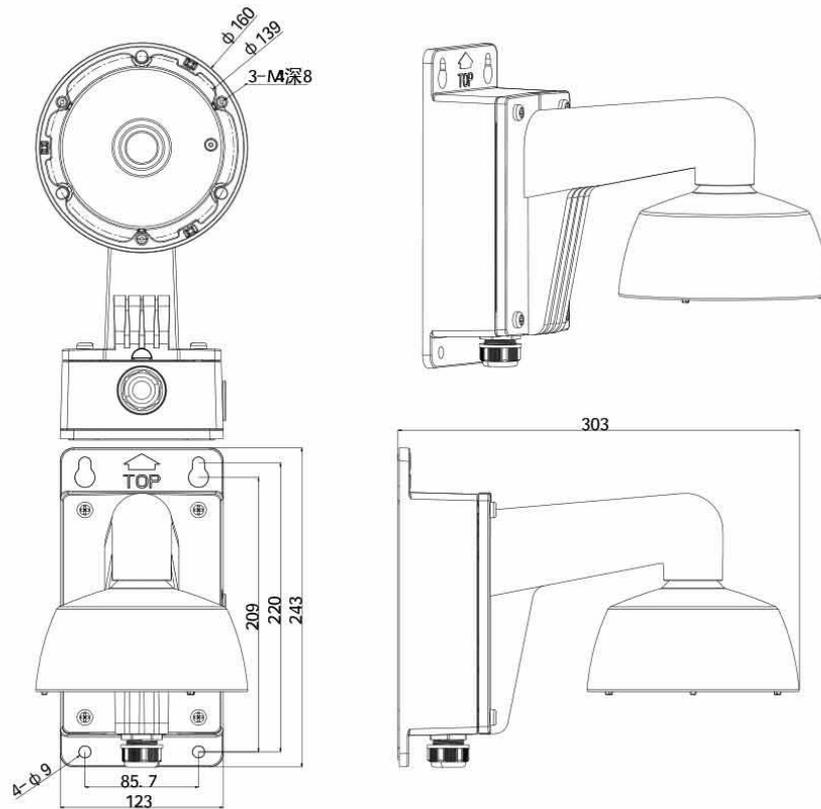


### 9.10 OD2 Wall Mount (VX-WM-OD2)



1. Safety Cable
2. Waterproof Gasket
3. Dome Cover
4. Mount Arm
5. Mounting Bracket
6. TWM 3x5 Screw

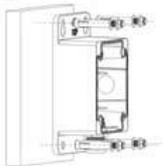
### 9.11 OD2 Wall Mount with Junction Box (VX-WMJ-OD2)



Unit: mm

#### Installation Step:

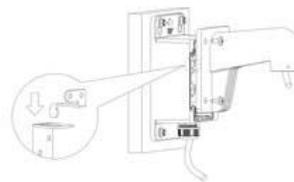
- ① Choose the appropriate wall to affix the junction box



- ② Wiring through waterproof stopper



- ③ Install bracket to junction box; wiring and screw in

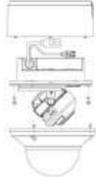


- ④ Affix cap to bracket with fastening screw



A: Fastening screw

- ⑤ Take off the lower dome and inner module



- ⑥ Complete wiring and affix inner module to cap



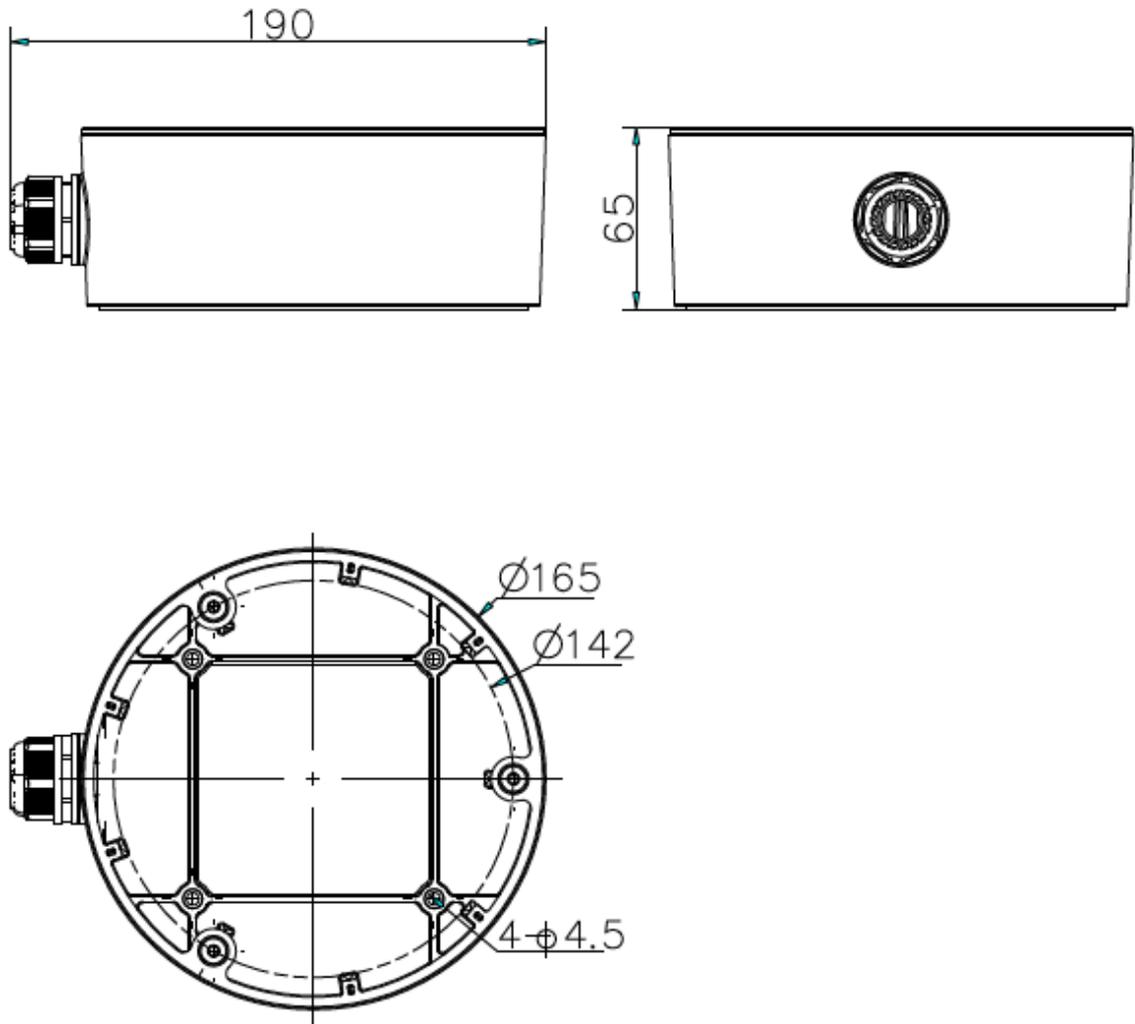
- ⑦ Adjust the view angle; install lower dome and screw in



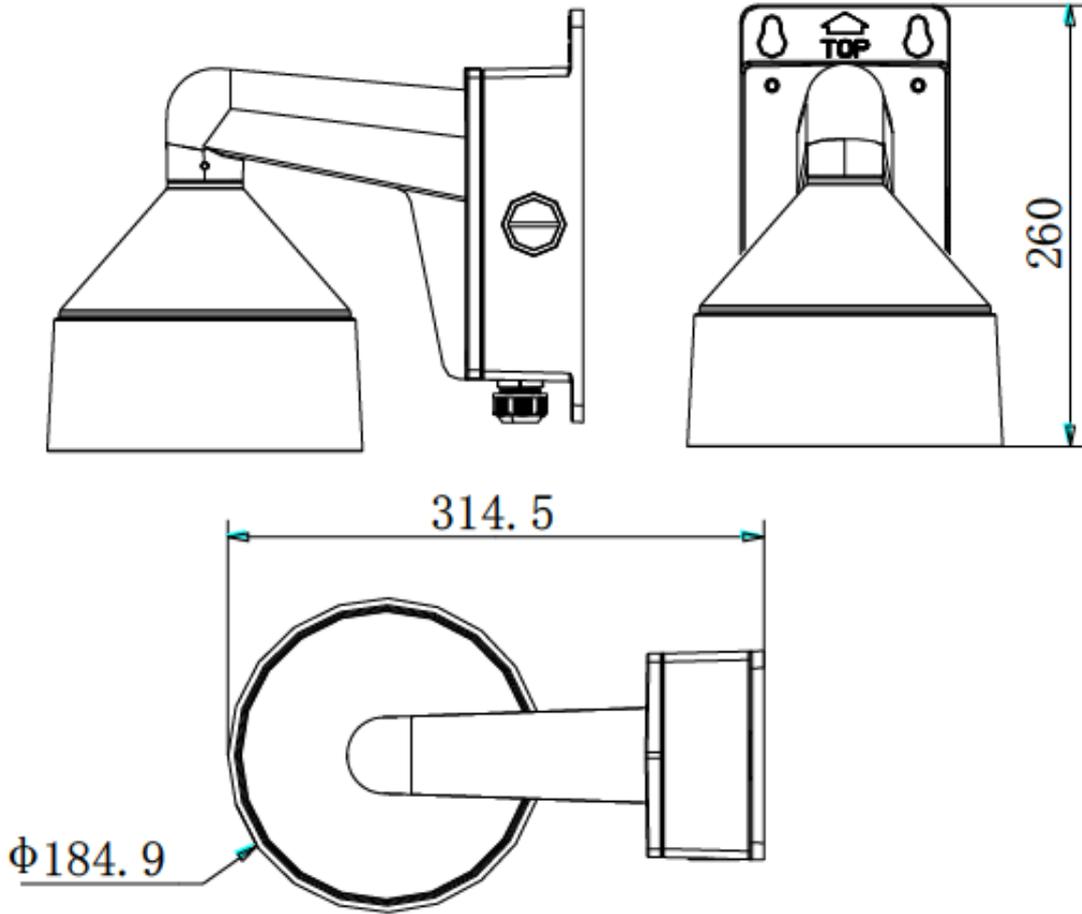
- ⑧ Installation Complete



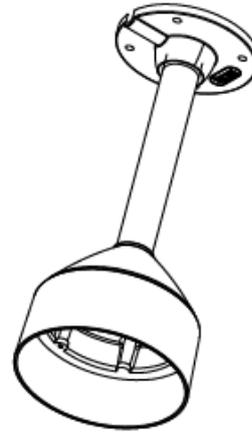
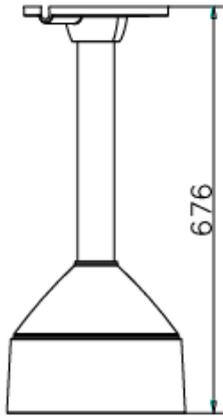
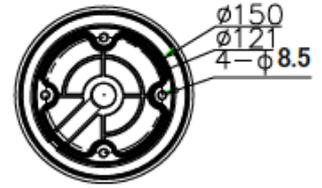
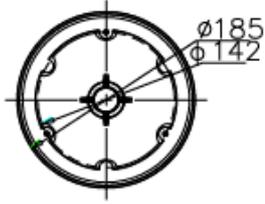
### 9.12 OD3 Junction Box Bracket (VX-OD3-BJB)



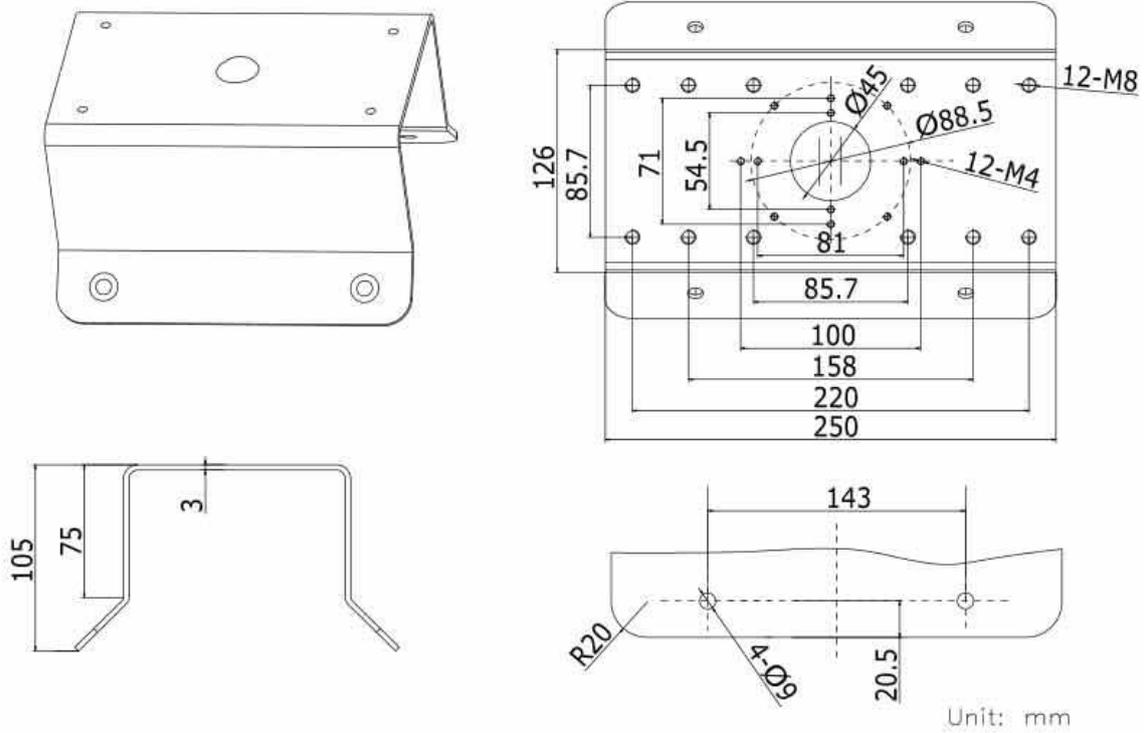
### 9.13 OD3 Wall Mount Bracket (VX-OD3-BWM)



### 9.14 OD3 Pendant Mount Bracket (VX-OD3-BPM)

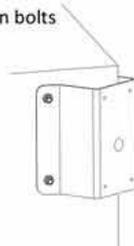
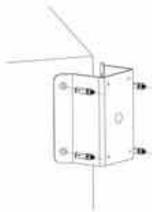


### 9.15 Universal Corner Mount (VX-CM)

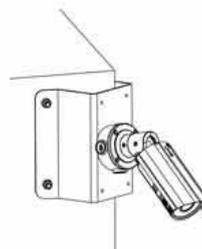
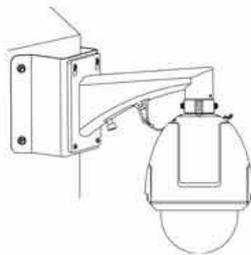


#### Installation Step:

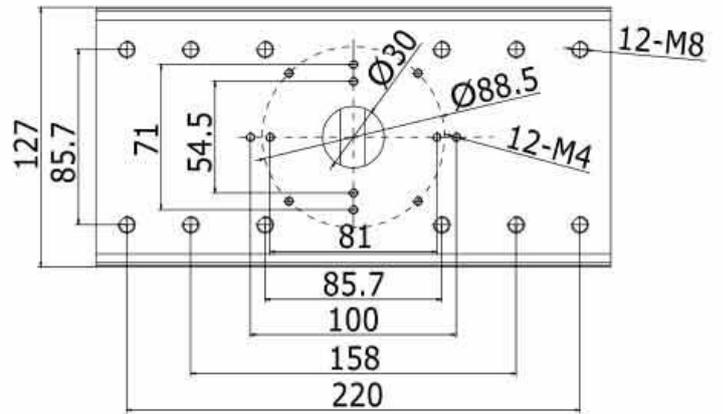
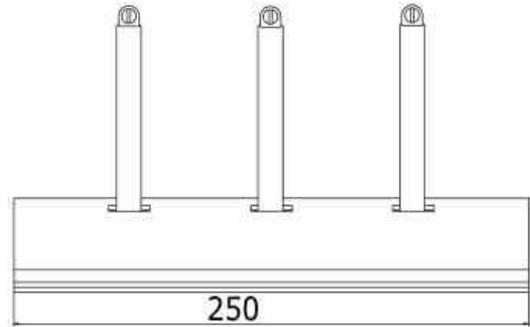
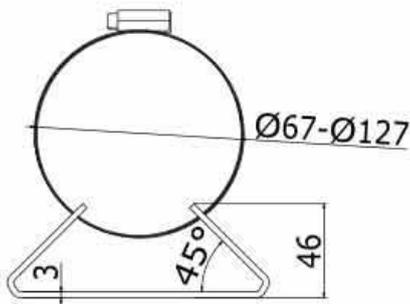
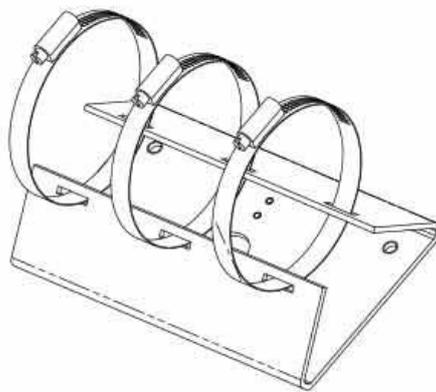
- ① Choose appropriate wall and install the bracket with expansion bolt
- ② Affix the bracket firmly with provided expansion bolts
- ③ Pull cabling through and complete the bracket installation and wiring for camera mounting



The bracket can be used with some wall mounting bracket, which is as followed:



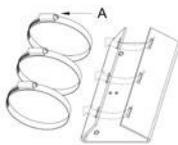
### 9.16 Universal Pole Mount (VX-POLE)



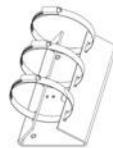
Unit: mm

#### Installation Step:

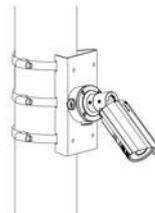
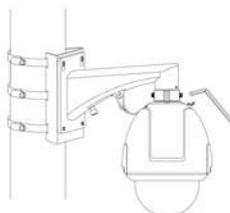
- ① Rotate the clasp screw counter-clockwise and to increase the diameter of the clamp
- ② Thread the clamp through the holes of the corner mount
- ③ Wrap each clamp around the pole rotate the clasp screw clockwise to tighten each clasp



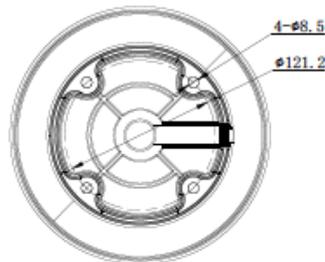
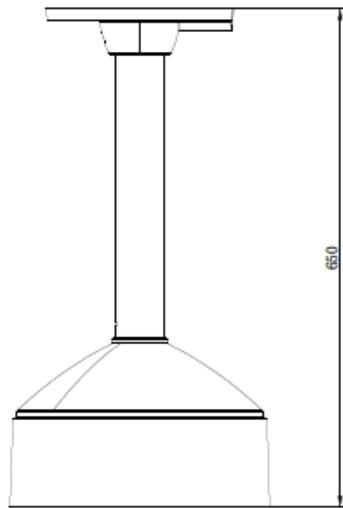
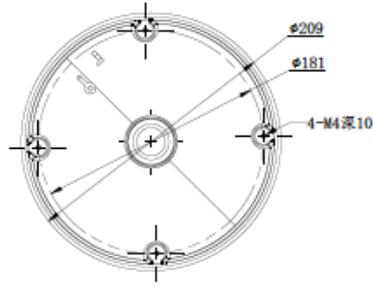
A: Clasp Screw



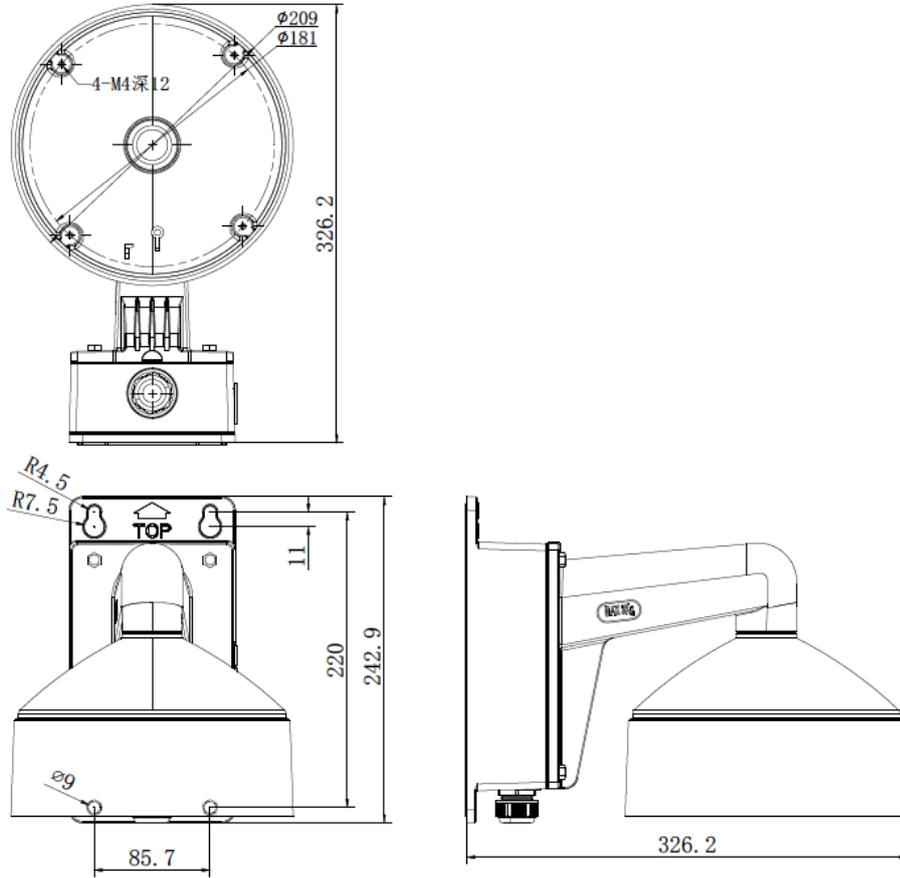
This bracket can be used with some wall mount bracket to realize vertical pole mount, which is as followed:



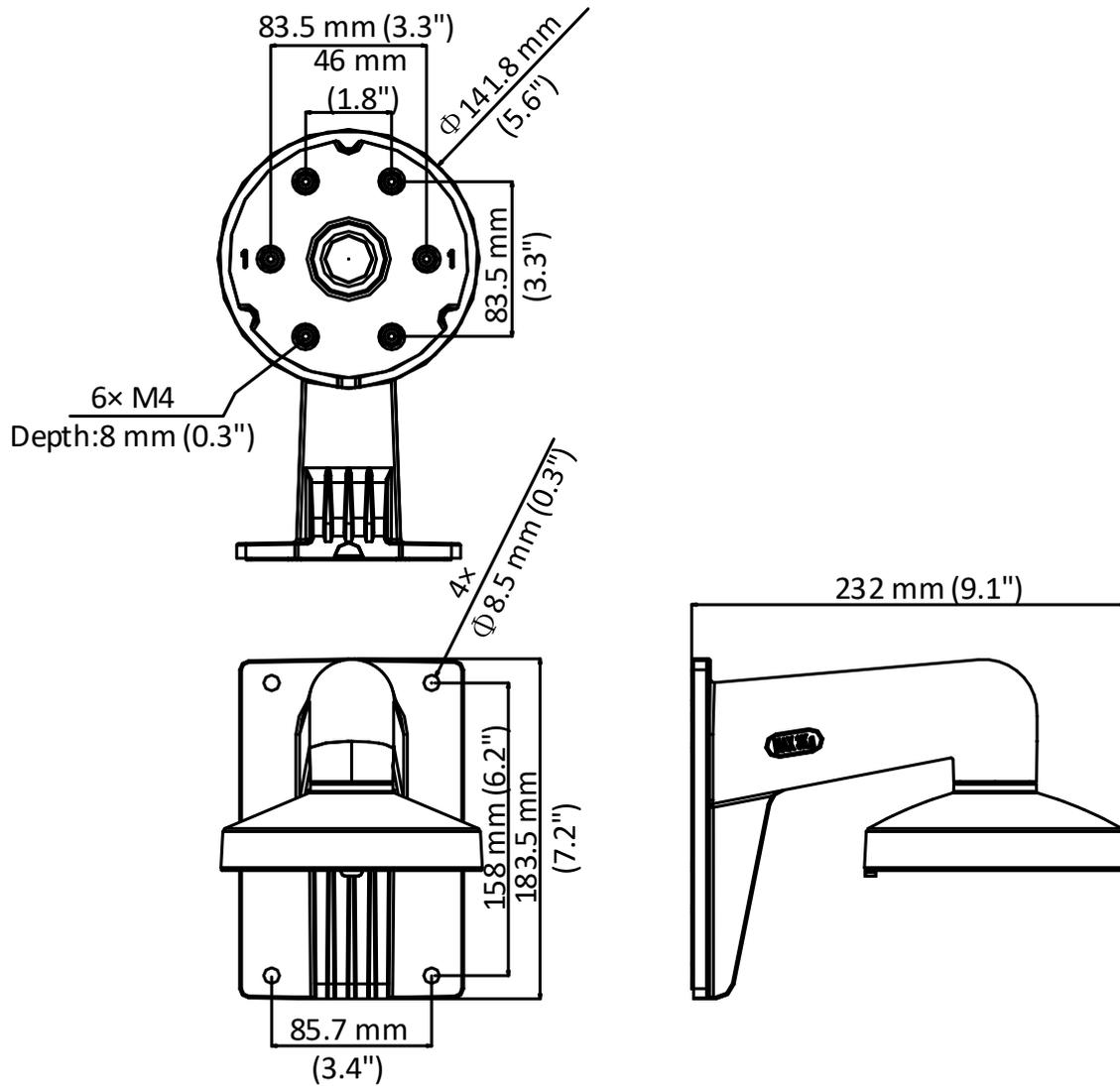
### 9.17 180° Pendant Mount Bracket (VX-8S-180-BPM)



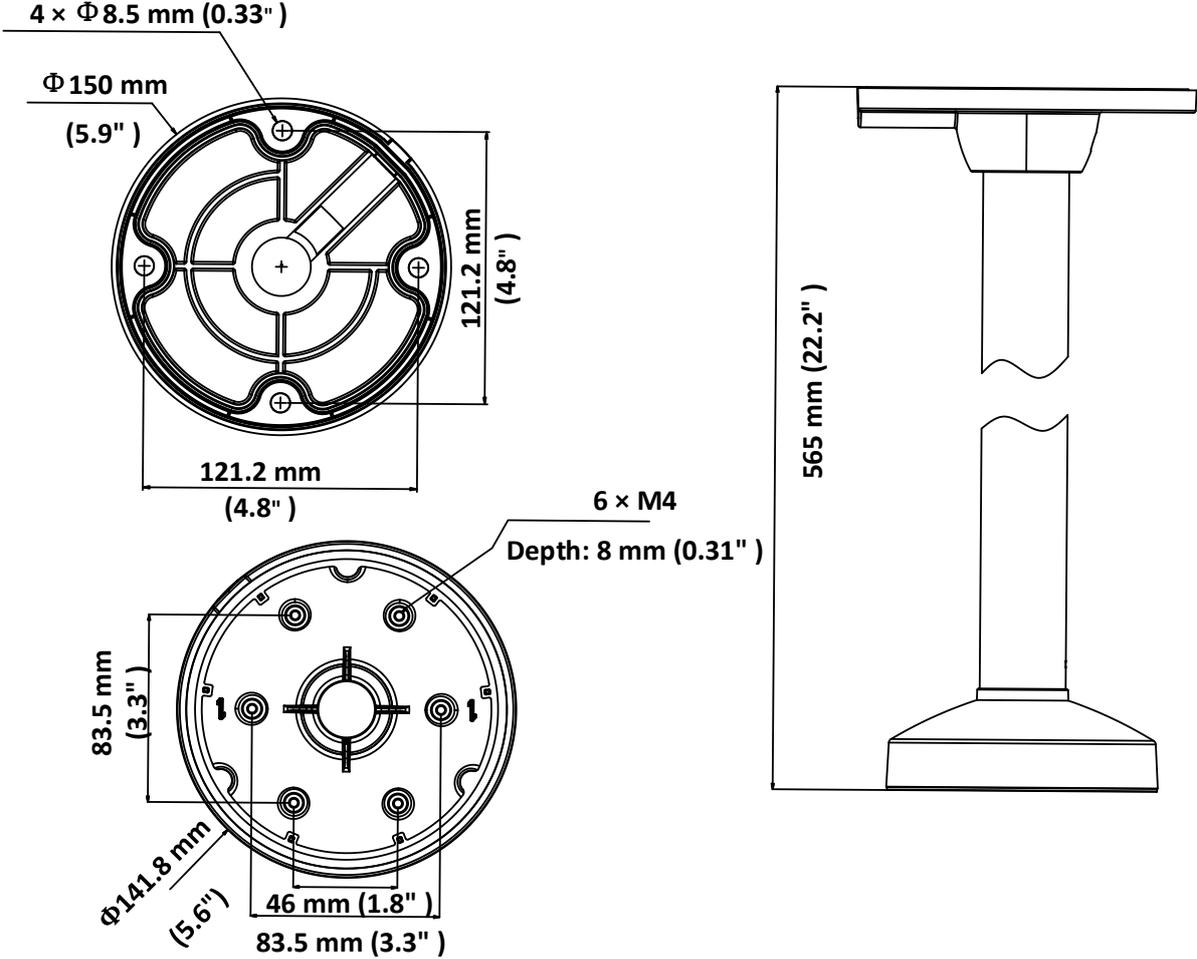
### 9.18 180° Wall Mount Bracket (VX-8S-180-BWM)



9.19 Wall Mount Bracket for VX-2V-MD-RIWH (VX-WM-127)



9.20 Pendant Mount Bracket for VX-2V-MD-RIWH (VX-PM-127)



9.21 In-Ceiling Flush Mount Adaptor for VX-2V-MD-RIWH (VX-FM-127)

