

MANUAL

IP Camera Quick Start Guide

TSGLOBE

This CCTV Camera User Manual provides comprehensive guidance on the installation, configuration, and operation of CCTV (Closed-Circuit Television) cameras. CCTV systems have become essential tools for enhancing security and surveillance in various environments, from homes and businesses to public spaces. Understanding how to effectively use and maintain these cameras is crucial for ensuring the safety and security of people and property.

Important Safeguards and Warnings

When setting up and using an IP camera, it's important to follow the manufacturer's instructions as outlined in the user manual. Additionally, there are some important safeguards and warnings that you should be aware of to ensure the safe and effective operation of your IP camera. These may include:

1. Power Supply:

- Use only the power supply and cables provided by the manufacturer.
- Ensure that the power supply voltage matches the camera's requirements to avoid damage.

2. Installation:

- Place the camera in a safe and secure location to prevent it from being tampered with or stolen.
- Avoid mounting the camera near any sources of extreme heat or moisture.

3. Network Security:

- Change default login credentials (username and password) to prevent unauthorized access.
- Use strong, unique passwords for your camera and network.
- Keep the camera's firmware up to date to patch any security vulnerabilities.

4. Privacy and Legal Compliance:

- Respect privacy laws and regulations when installing and using your IP camera.
- Inform individuals if they are being recorded in areas where privacy may be expected.

5. Maintenance:

- Regularly clean the camera lens to maintain image quality.
- Check for firmware updates and apply them as needed.
- Inspect cables and connections for damage.

6. Data Protection:

- Encrypt video streams and storage to protect sensitive footage.
- Implement password protection and access controls to limit who can view and manage camera settings.

7. Power and Electrical Safety:

- Ensure that the camera is properly grounded.
- Avoid exposing the camera to rain or moisture if it's not designed for outdoor use.
- Do not expose the camera to extreme temperatures or direct sunlight.

8. Cable Safety:

- Protect cables from physical damage, such as crushing or bending.
- Use waterproof connectors and cable protection for outdoor installations.

9. Remote Access:

- Secure remote access to the camera through strong passwords and encryption.
- Use Virtual Private Networks (VPNs) or other secure methods to access the camera remotely.

10. Warnings and Disclaimers:

- Be aware of any specific warnings and disclaimers provided by the manufacturer in the user manual.
- Pay attention to any limitations on the camera's performance or use.

11. Support and Troubleshooting:

- Contact the manufacturer's support if you encounter any technical issues or have questions about the camera's operation.

12. Legal Considerations:

- Familiarize yourself with the laws and regulations regarding the use of surveillance cameras in your area.

Always remember that improper installation or use of an IP camera can lead to security vulnerabilities, privacy concerns, and potential damage to the camera itself. Following the manufacturer's guidelines and these safeguards will help ensure the safe and effective operation of your IP camera.

Table of Contents

1. Structure	8
I. Port Description of HD IR Varifocal Dome Network Camera A	8
II. Port Description of HO IR Vari-Focal Dome Network Camera B.....	8
III. Part Description of HD IR Var-focal Dome Network Camera C.....	8
IV. Port Description of HD-IR-Waterproof Dome Network Camera.....	
V. Part Description of HD IR Fixed Eyeball Network Camera A	
VI. Port Description of HD IR Fixed Eyeball Network Camera B	
VII. Port Description of HD IR Fixed Mini-Dome Network Camera	
VIII. Part Description of HD IR Wedge Dome Network Camera	
IX. Port Description of HD-IR-Bullet Network Camera A	
X. Port Description of HD-IR-Bullet Network Camera B.....	
XI. Port Description of HD-IR Bullet Network Camera C	
XII. Port Description of Vari-Focal-Box Network Camera	
2. Device Installation	
I. Device Installation Steps of HD IR Vari-Focal Dome Network Camera A	
II. Device Installation Steps of HD-IR Vari-focal Dome Network Camera B.....	
III. Device Installation Steps of HD-IR Vari-focal Dome Network Camera C.....	
IV. Device Installation Steps for Metal Dome	
V. Device Installation Steps for Plastic Dome	
VI. Device Installation Steps of HD IR Fixed Mini-Dome Network Camera	
VII. Device Installation Steps of HD IR Wedge Dome Network Camera.....	
VIII. Device Installation Steps of Metal Fixed LXIR Bullet Network Camera.....	
IX. Device Installation Steps of Fixed Bullet Network Camera	
X. Device Installation Steps of HD-IR Bullet Network Camera A	
XI. Device Installation Steps of HD IR Bullet Network Camera B.....	
XII. Device Installation steps of HD-IR Bullet Network Camera C.....	
XIII. Device installation steps of HD-Vari-Focal Box Network Camera.....	
i. Lens Installation.....	
ii. Auto Aperture Lens installation 2.133 Manual Aperture Lens Installation	
iii. Manual Aperture Lens Installation.....	
iv. SD Card/SD Card Installation	
v. WIFI Antenna Installation.....	

- vi. I/O Port Application
- 3. Network Configuration.....
 - I. Modify IP Address.....
 - II. Login Web Interface

1 Structure

Note:

The following figure is for reference only, which is used to know the functions of device external ports. There are differences about external ports for some product models, please refer to the actual object for more details.

I. Port Description of HD IR Vari-Focal Dome Network Camera A

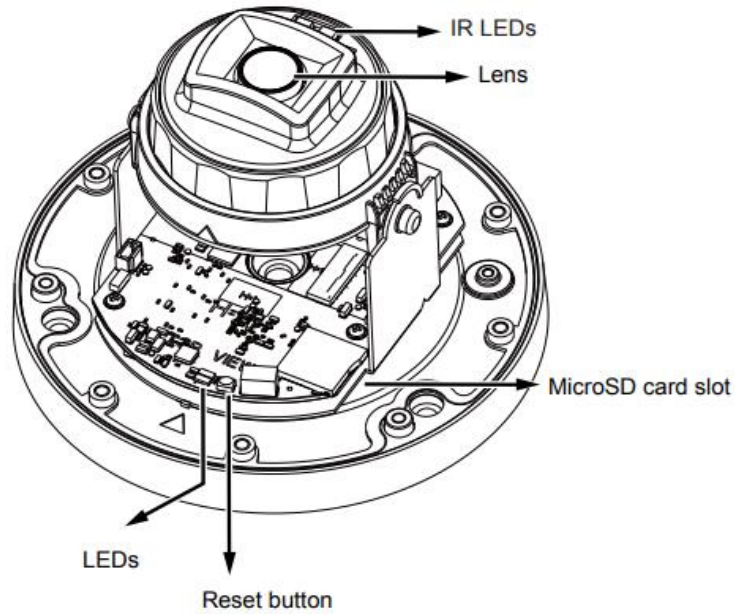


Figure I-i

Following sheet for detailed information

Port Name	Description
Power Input	Connect the camera to a power source (usually 12V DC)
Ethernet (RJ45)	Connect the camera to a network using an Ethernet cable (for data transmission)
Audio In/Out	Connect external microphones or speakers for audio input and output
Alarm Input/Output	Connect external sensors or alarms for triggering actions based on event
Reset Button	Press to reset the camera to its default settings
MicroSD Card Slot	Insert a microSD card for local storage of recorded footage (if supported)
IR LED Power Input	Connect an external power source for IR LED illumination (if applicable)

II. Port Description of HO IR Vari-Focal Dome Network Camera B

Note

The following Figures are for reference only, which are used to know each structure component and cable port functions.

There are differences about wire structure for some product models, please refer to the actual object for more details.

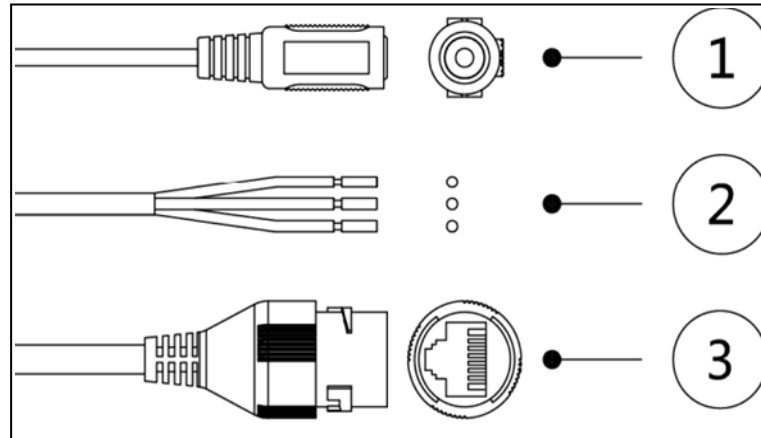


Figure I-ii

Table for more details about cable port

Ref	Port Name	Connector	Description
1	Power input port	-	Power port. Input 12 VDC power supply. Use in accordance with device label instructions. Caution it may cause damage to the device if it fails to power the device according to the instruction of device label
2	Alaram I/O port	-	Input/output for alarm signals.
3	Network port	RJ-45	Connect to standard Ethernet cable. Note: Certain devices support Power over Ethernet. Check the specific device to determine if the device accepts PoE and use an appropriate Ethernet cable and network to supply power.

Table for detailed information about I/O port

Ref	Connector Name	Description
1	ALARM_IN1	Alarm input port, receive on-off signal of external alarm source.
2	ALARM_OUT1	Alarm output port 1 outputs alarm signal to alarm device
3	ALARM_GND	Connect ground

III. Part Description of HD IR Var-focal Dome Network Camera C

Figure for component structure.

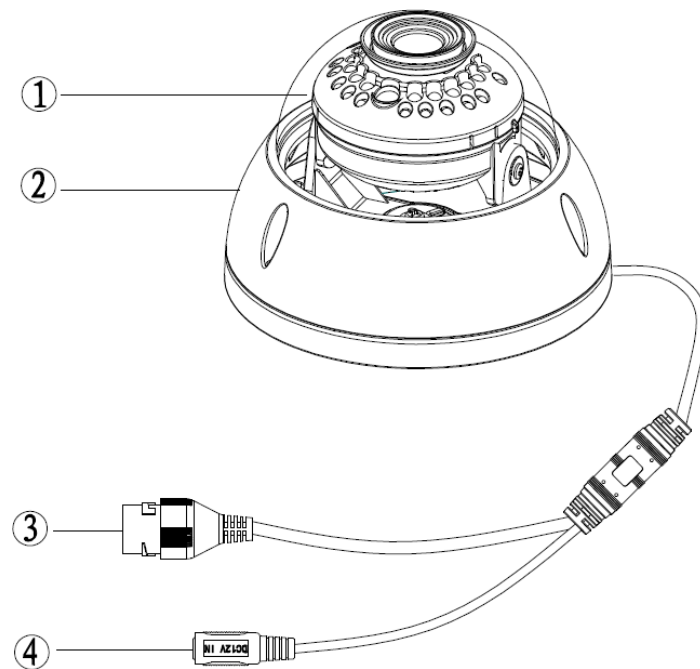


Figure I-iii

Please refer to the following sheet for detailed information

Component	Component Name
Component 1	Dome module
Component 2	Dome enclosure

Port	Port Name	Note
Port 3	Ethernet port	Network data in/out and PoE
Port 4	DC power jack	Connect to DC 12V power, input power

IV. Port Description of HD-IR-Waterproof Dome Network Camera

Note:

The following structure figures are just for reference, which are used to know each structure component and the functions of cable ports.

There are differences about structure components and cables for different product models, please refer to the actual object for more details.

You can refer to the following figure for component structure.

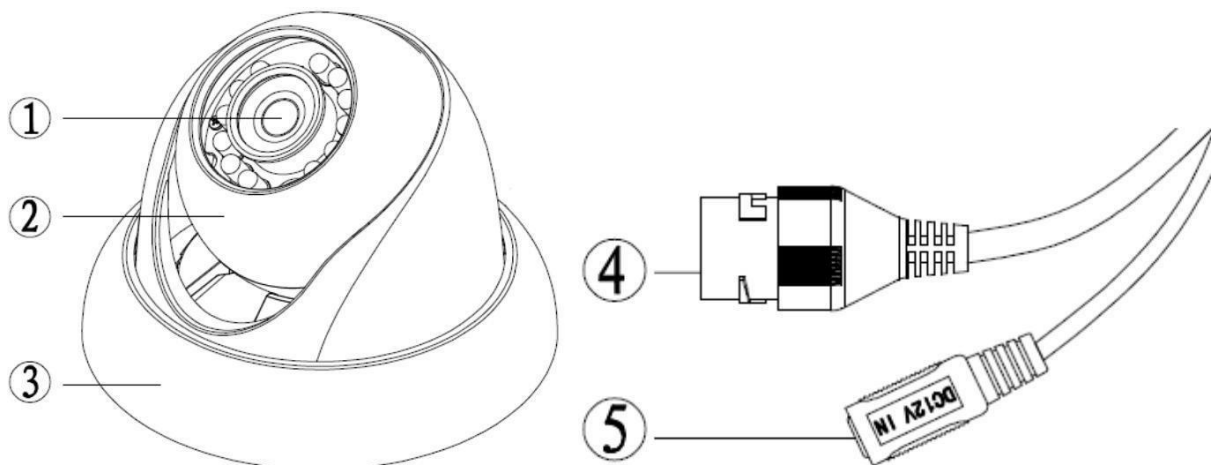


Figure I-iv

Please refer to the sheet for detailed information about components

Component	Component Name
Component 1	Device lens
Component 2	Dome body
Component 3	Dome enclosure

Please refer to the Sheet for detailed information about cable ports.

SN	Port	Port Name	Connector	Function Description
4	LAN	Internet access port	Ethernet port	Connect to standard Ethernet cable Note: Some devices do not support PoE power supply.
5	DC12V	12V direct current	-	Connect to DC 12V power, input power

V. Part Description of HD IR Fixed Eyeball Network Camera A

You can refer to the following figures for multiple-function combination cable information.

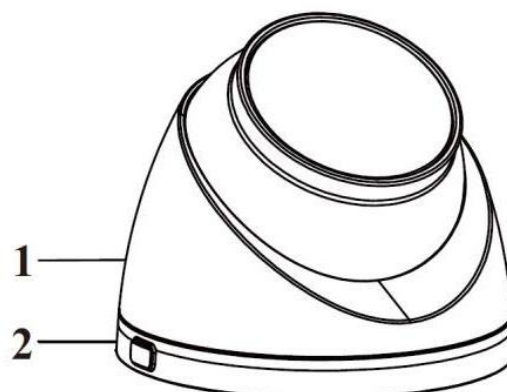


Figure I-v

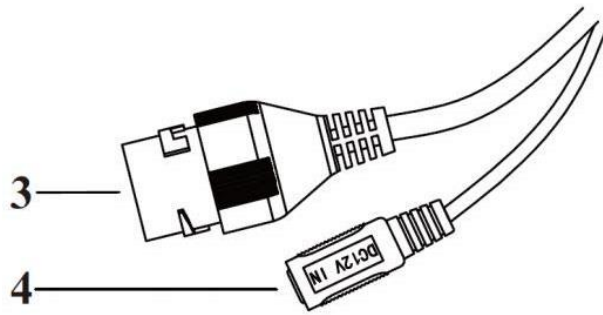


Figure I-vi

Please refer to the following sheet for detailed information about structure appearance.

Component	Component Name
1	Dome enclosure
2	Dome pedestal

Please refer to the following sheet detailed information about cable port.

SN	Port	Port Name	Connector	Function Description
3	LAN	Network port	Ethernet port	Connect to standard Ethernet cable Note Some devices don't support PoE
4	DC	12v DC power	-	Connect DC 12V power, input power

VI. Port Description of HD IR Fixed Mini-Dome Network Camera

You can refer to the following figure for component structure.

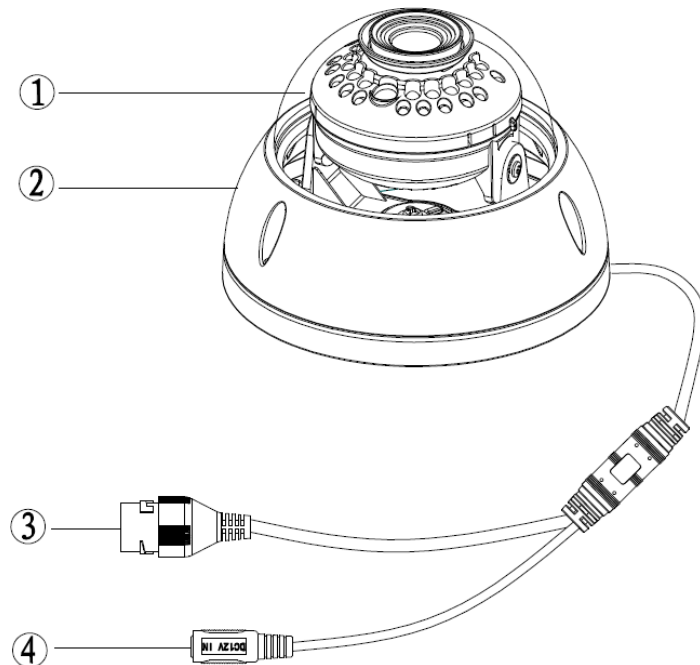


Figure I-viii

Please refer to the following sheet for detailed information

Component	Component Name
Component 1	Dome module
Component 2	Dome enclosure

Port	Port Name	Note
Port 3	Ethernet port	Network data in/out and PoE
Port 4	DC power jack	Connect to DC 12V power, input power

Table for detailed information about I/O port

Ref	Connector Name	Description
1	ALARM_IN1	Alarm input port, receive on-off signal of external alarm source.
2	ALARM_OUT1	Alarm output port 1 outputs alarm signal to alarm device
3	ALARM_GND	Connect ground

VII. Part Description of HD IR Wedge Dome Network Camera

You can refer to the following figure for component structure.

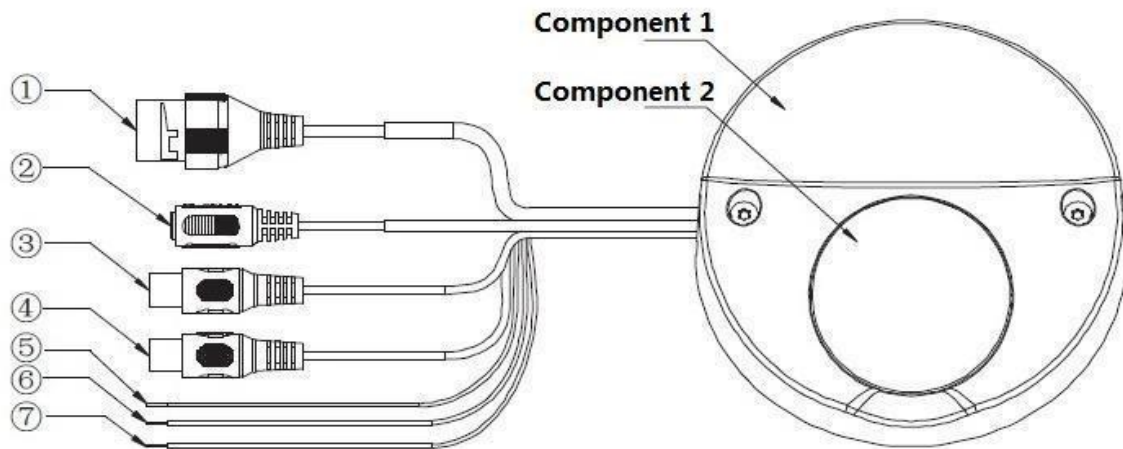


Figure I-ix

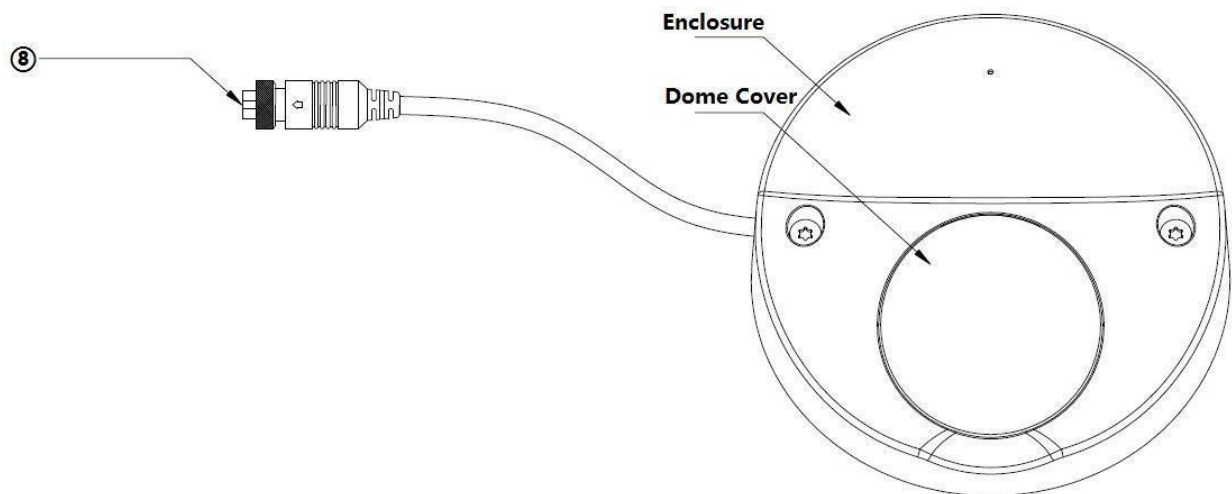


Figure I-ix

Please refer to the following sheets for detailed information.

Component	Component Name
Component 1	Dome enclosure
Component 1	Dome cover

Port	Port Name	Function
Port 1	Internet access port	Network data in/out and PoE. Note: Some devices do not support PoE.
Port 2	Power input port	Connect to DC 12V power, input power.
Port 3	Audio input port	Input audio signal, receive analog audio signal from sound pick-up.etc
Port 4	Audio output port	Output audio signal to speakers .etc

Port 5	ALARM_IN1(Yellow)	Alarm input port, receive on-off signal of external alarm source.
Port 6	ALARM_OUT1(Orange)	Alarm output port, output alarm signal to alarm device.
Port 7	ALARM_GND (Gray)	Ground terminal
Port 8	Mobile aviation port	Network data input output and PoE power supply

VIII. Port Description of HD-IR-Bullet Network Camera A

You can refer to the following figure for cable information.

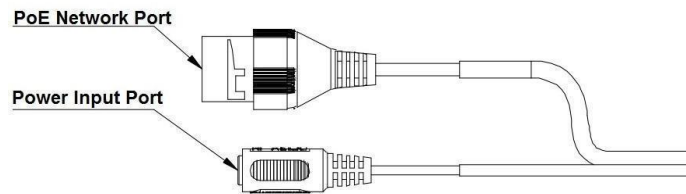


Figure I-x

Please refer to the following sheets for detailed information.

SN	Port	Port Name	Connector	Function Description
1	LAN	Network port	Ethernet port	Connect to standard Ethernet cable Note Some devices don't support PoE
2	DC	12v DC power	-	Connect DC 12V power, input power

IX. Port Description of HD-IR-Bullet Network Camera B

Note:

The following structure figures are just for reference, which are used to know each structure component and the functions of cable ports.

There are differences about structure components and cables for different product models, please refer to the actual object for more details.

The following figure shows port information.

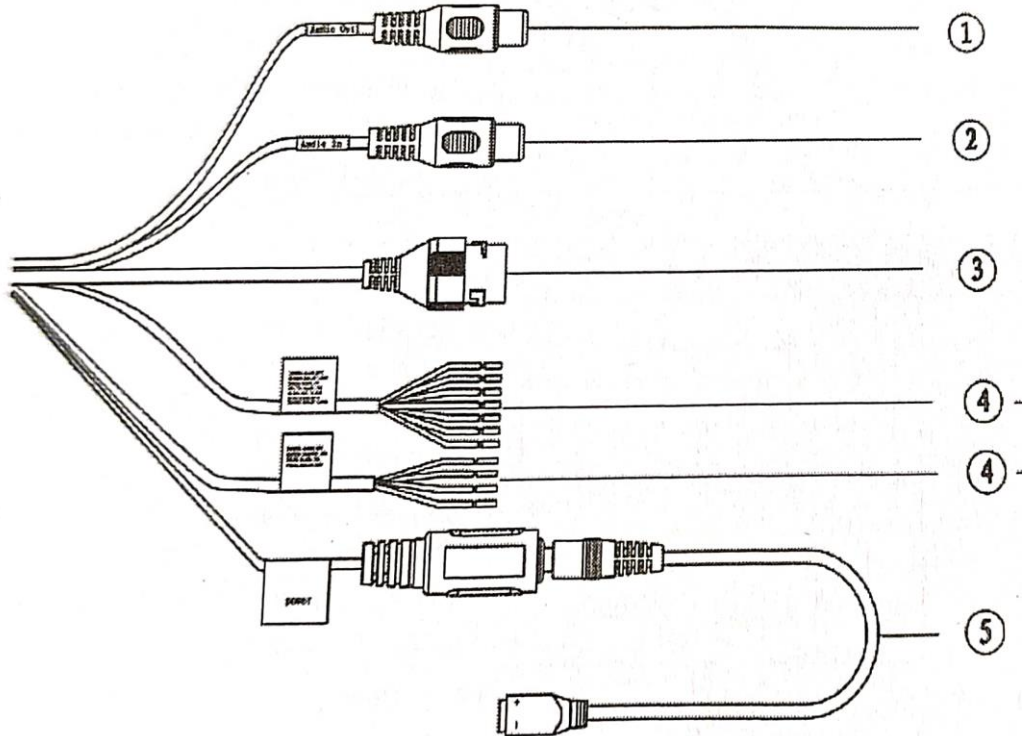


Figure I-xi

The following tables show more information about port function.

No	Cable port	Port name	Connector	Function Description
1	AUDIO IN	Audio input port	RCA	It Inputs audio signal and receives analog audio signal from the devices such as pickup.
2	AUDIO OUT	Audio output port	RCA	It outputs audio signal to the devices such as speaker.
3	LAN	Network port	Ethernet port	It connects to standard Ethernet cable and provides PoE power supply. Note Some devices do not support PoE power supply.
4-1	I/O	I/O port	-	It includes alarm signal input/output

4-2				
5	Power	Power input port	-	<p>Power port, it inputs DC 12 V or AC 24 V. Make sure the power supply is according to the device label when used.</p> <p>Note You can connect the round port to 2- pin converter cable when using AC 24V for power supply.</p> <p>Caution Make sure the power supply is according to the device label when used. Failure to do so might cause device damage.</p>

Port Name	No	Connector name	Function Description
I/o port	1	ALARM_OUT1	Alarm output port, it outputs alarm signal to alarm device. Note ALARM OUT1 can only be used cooperatively with ALM OUT GND1 when connecting to alarm device.
	2	ALM_OUT_GND1	
	3	ALARM_IN1	Alarm Input port 1, it receives on-off signal of external alarm source.
	4	ALARM_IN2	Alarm input port 2, it receives on-off signal of external alarm source.
	5	ALM_IN_GND	Alarm input grounding.
	6	ALARM_OUT2	Alarm output port, it outputs alarm signal to alarm device. Note ALARM OUT 2 can only be used cooperatively with ALM OUT GND 2 when connecting to alarm device.
	7	ALM_OUT_GND2	

Port name	No	Connector name	Function Description
I/o port	1	ALARM_OUT	Alarm output port, it outputs alarm signal to alarm device.
	2	ALM_OUT_GND1	Alarm output grounding.
	3	ALARM_IN1	Alarm Input port 1, it receives on-off signal of external alarm source.
	4	ALM_IN_GND	Alarm input grounding.

X. Port Description of HD-IR Bullet Network Camera C

You can refer to the following figure for cable information.

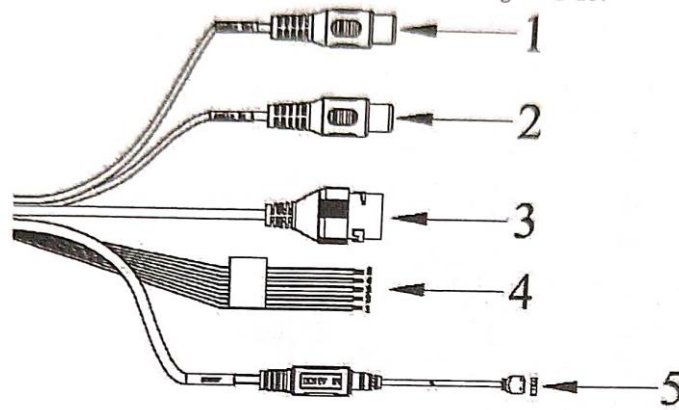


Figure I-xii

Please refer to the following sheets for detailed information.

No.	Port Name	Function	Connector	Note
1	AUDIO OUT	Audio output	RCA	Output audio signal to speaker and etc.
2	AUDIO IN	Audio in	RCA	Input audio signal, receive analog audio signal from pick up and etc.
3	LAN	Network port	Ethernet port	Connect to standard
4	I/O	I/O port	-	Alarm signal input/output.
5	POWER	Power Input port		Power port. Input DC 12V or AC 24V power. Note: Please connect the DC5.5 round port to 2-pin converter cable when you are using AC 24V

Please refer to the following sheets for detailed pin information.

Port Name	SN	Name	Note
I/O	1	ALARM NO	Alarm output port. It is to output the alarm signal to the alarm device. NO: normal open alarm output port. It must be used
	2	ALARM COM	Alarm output public port.
	3	ALARM IN1	Alarm input port 1. It is to receive the on-off signal from the external alarm source.
	4	ALARM IN2	Alarm input port 2. It is to receive the on-off signal from the external alarm source.
	5	GND	Ground port

XI. Port Description of Vari-Focal-Box Network Camera

The figures are for reference only, which are used to know the functions of the rear pane Different devices may have different structures of rear panel, please refer to the actual Product for more details.

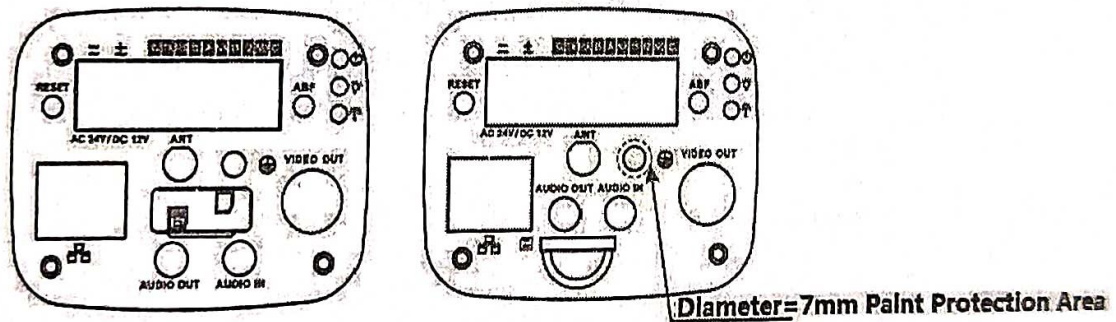


Figure I-xiii

Please refer to the following sheet for detail information

Port Name		Port Function
VIDEO OUT	Video output port	Output analog video signal. Can connect to TV monitor to view video.
AC 24V/DC 12V	Power port	Able to input 12V DC or AC 24V power supply, and support power supply at the same time (4G devices are.
STATUS Indication Light	Red light	<ul style="list-style-type: none"> ▪ System boot up-red light is on. ▪ System upgrades-red light flashes. ▪ System resets-green light is off, red light is on.
	Green light	<ul style="list-style-type: none"> ▪ Normal working status-green light is on. ▪ Display record status: Record-green light flashes.
	Yellow light	<ul style="list-style-type: none"> ▪ Detect the wireless device-yellow light is on.
4G	4G port	Connect to 4G card. Note: Only some models support 4G function.
WIFI	Antenna port	Connect to 4G/WIFI antenna, receiving wireless signal. Note: Only some models support this function.
IN1	Alarm input port 1	Receive the on-off signal from the external.
NO	Alarm input port	Alarm output port. To output alarm signal to the alarm device. <ul style="list-style-type: none"> ▪ NO: Normal open alarm output end. ▪ C: Alarm output common end.
C		
IN2	Alarm input port 2	To receive the on-off signal from the external alarm Source.
A	RS485 port	RS485_A port, control external PTZ and etc.
B		RS485_B port, control external PTZ.
RX	RS232 port	Receiving end of RS232 serial port.
TX		Sending end of RS232 serial port.
G		Ground end of RS232 serial port.
NA	IR light port	External IR light signal control port.
RESET	RESET button	Restore device factory default setup. When system is

		running normally, press the RESET Button for at least 5 seconds, system can restore factory default setup.
ABF	Auto back focus	Auto back focus adjustment, by adjusting Sensor position to achieve precise focus.
AUDIO OUT	Audio output port	3.5mm JACK port, output audio signal to the passive.
AUDIO IN	Audio input port	3.5mm JACK, input audio signal from devices such as pick-up.
LAN / OPT	Network port /MB optical fiber port	LAN: Connect to standard Ethernet cable and provide PoI power supply function. OPT: transmit MB Ethernet data.
SD	SD card port	Connect to SD card.
	GND	prevent the thunderstorm strike when using the device.

2 Device Installation

Note: Waterproof connector installation for network port:

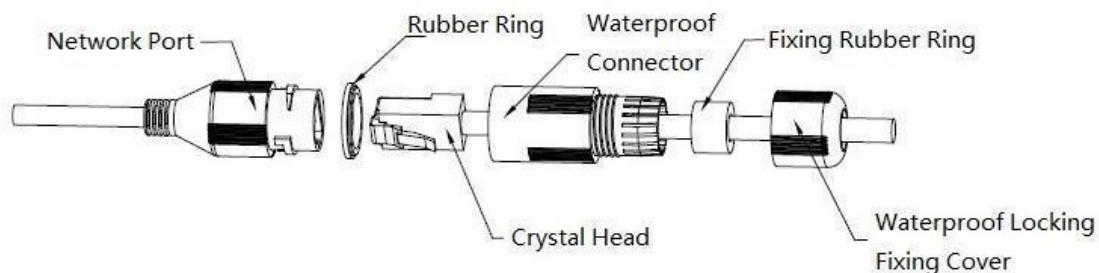


Figure II-i

1. Keep the convex groove outward and install the rubber ring into the network port, keep the smaller hole of the rubber ring outward and install the fixing rubber ring into the main body of the waterproof connector.
2. Pull the network cable without crystal head through main body of waterproof connector, fixing rubber ring and waterproof locking cover, make the crystal head of network cable, and then insert it into the network cable.
3. Put the main body of waterproof connector on the network port and rotate it clockwise to lock the network port and waterproof connector firmly.
4. Put the waterproof locking cover on the main body of waterproof connector and rotate it clockwise to lock the waterproof connector and waterproof locking cover firmly.

II.i Device Installation Steps of HD IR Vari-Focal Dome Network Camera A

Note:

Before installation, please make sure the installation surface can support a minimum of 3 times the weight of the camera.

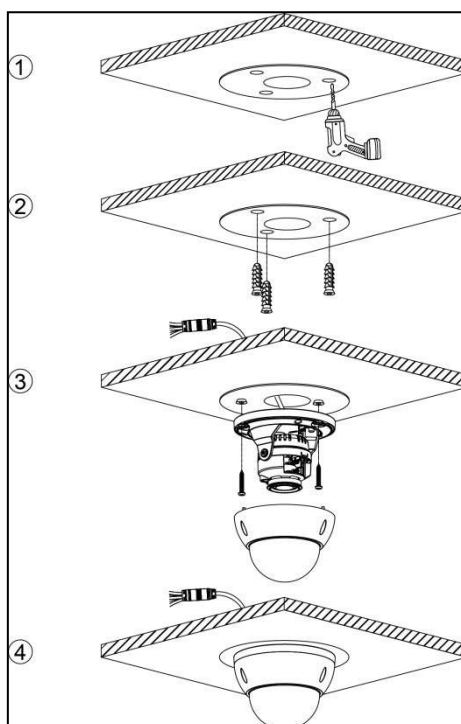


Figure II-ii

Step 1

Use inner hex wrench in the accessories bag to open dome enclosure by unfastening three inner hex screws on enclosure.

Step 2

Put installation template on the designated surface where you will install the device (wall or ceiling).

Step 3

Drill holes according to position of the holes on the installation template and then insert the expansion bolts in the holes. Secure these three bolts firmly.

Note:

- If user pulls out cable from top of installation surface, you must dig an exit hole on installation surface according to the installation template.
- If user pulls out cable from side of cable channel, it must go through the U-shape channel on dome pedestal, and take out cable from the side exit hole on pedestal.

Step 4

Adjust the device installation pedestal to the proper position and then pull cable through the exit hole on Installation surface. Make direction of TOP sign same as it is on the installation template. Line up the three screw holes in the device pedestal to the three plastic expansion bolt holes in the installation position. Put the three self-tapping screws in the three plastic expansion bolts firmly. Fix dome body on installation surface.

Step 5

Hold both sides of the rotation bracket bottom with hands, rotate horizontally along the axis, and adjust lens horizontal direction to designated position. Hold the LED decoration cover with hand, rotate along the vertical direction, adjust the lens vertical direction to designated position; it is okay to loosen the fix screws on both sides of the bracket first if it is too tight to adjust (just make it loose, do not take it out), then adjust the lens, tighten the fix screws after adjustment. Hold the LED decoration cover with hands, rotate horizontally along the axis, and adjust the lens image to designated position. Range of lens: vertical (0° — $+64^\circ$), horizontal (0° — $+355^\circ$), image rotation direction (0° — $+355^\circ$).

Note:

When tilted to 64° vertically, please make sure to set the image rotation correctly in order to avoid the outercover blocking the IR light which would result in IR reflection.

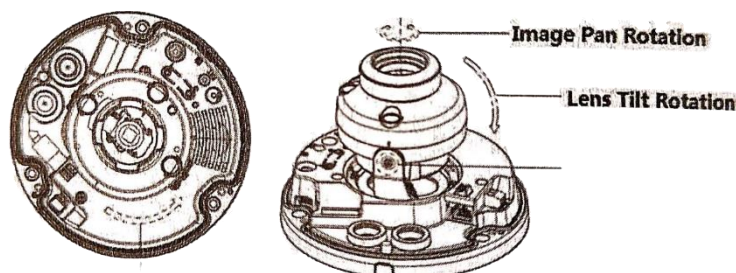


Figure II-iii

Note:

- Long press the “Reset button” shown in Figure 2-2 for 10 seconds when the device is powered on if the device needs to be restored to the factory default setting.

Step 6

Take up the dome enclosure, put it back on the camera properly regarding to screw and hole, and fasten the three inner hex screws with wrench.

Side Wiring

When cable installation adopts side wiring, it needs to pull out the plastic decoration plug on the lateral side of the device pedestal, and then the cable can be pulled out through the lateral side of the pedestal.

Cable Connection

The device reserves two wiring holes, and supports the pin whose diameter is less than 15mm to pass. The device is equipped with two waterproof sealing plugs. The waterproof sealing plug can be used to block wiring hole and threading which supports the cable whose diameter is between 4.0mm-6.0mm to pass. It also makes it convenient for the users to operate waterproof work for leading wire by themselves.

Please refer to the following steps for the exact use:

Step 1

Take out the waterproof sealing plug, and pull the cable with 4.0mm~6.0mm diameter through the ceiling plug according to the direction shown in the following figure.

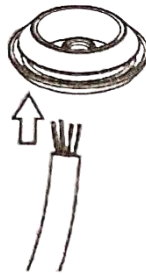


Figure II-iv

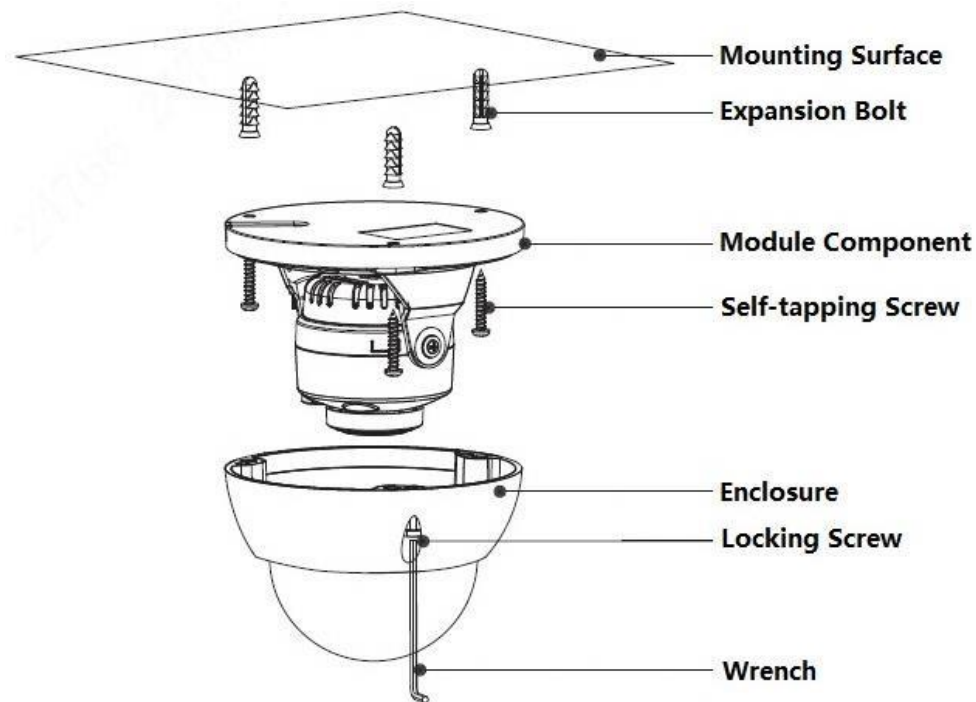
Step 2

Before step 4 of device installation, install the cable with waterproof sealing plug on the pedestal through the installation hole under the device pedestal, and assemble the cable pin.

Step 3

Connect the pin accessed with cable to the device, then install the device according to the normal steps.

II.ii Device Installation Steps of HD-IR Vari-focal Dome



Network Camera B

Figure II-v

Step 1

Take out installation position map and stick it on the mounting surface according to monitoring area.

Step 2

Dig expansion bolt bottom holes according to the hole sites with cross mark on the installation position map, insert the expansion bolts into the mounting holes and lock them firmly.

Step 3

Adjust the location of the mounting pedestal; lead the cable into the cable exit hole which is on the mounting surface.

Note

- It needs to dig a cable exit hole on the mounting surface according to the installation position map if users adopt bottom cabling when installing device.
- It needs to lead out the cable via U-shaped cable channel side exit on the dome pedestal if users adopt side cabling when installing device.

Step 4

Make sure the "TOP" direction on the device is in accordance with that of the installation position map, align the screw hole on the device mounting pedestal with the mounting hole on the mounting surface, and then twist the self-tapping screws into the plastic expansion bolts and lock them firmly, finally fix the dome on the mounting surface.

Adjust Device Angle

Adjust Monitoring Direction

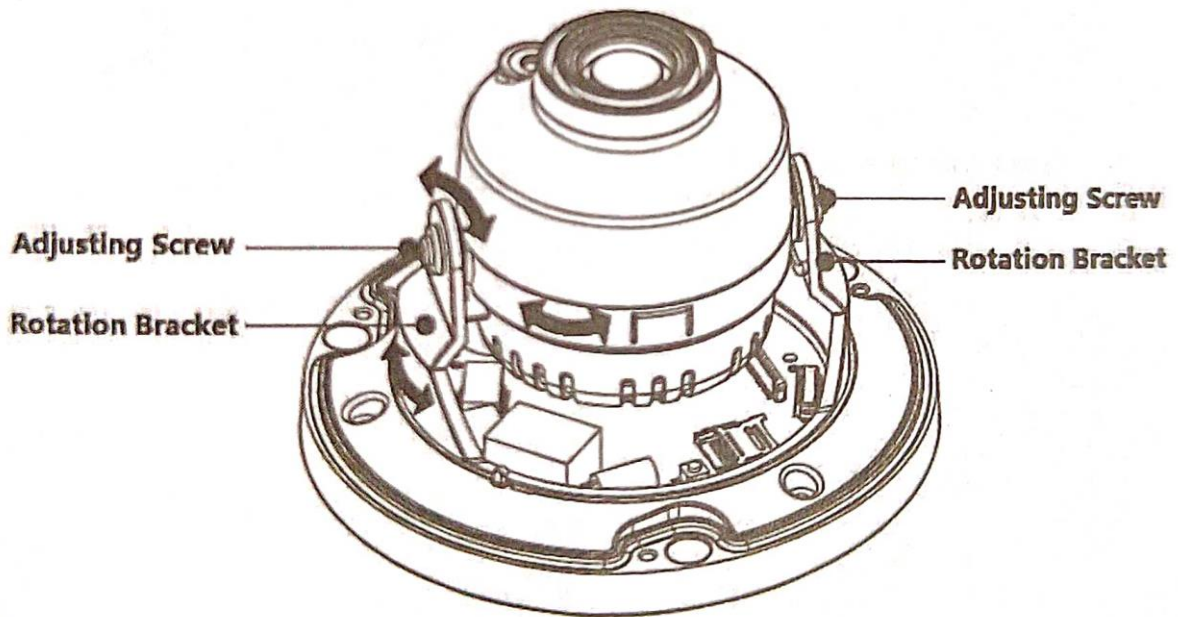


Figure II-vi

- Please implement the following steps for the devices shown in Figure II.v
- 1. Hold the rotation bracket on both sides, turn the rotation bracket horizontally, and adjust the lens direction horizontally to the targeted position.
- 2. Loosen adjusting screws (do not remove them completely, just make them loose), hold the dome module to make lens rotate vertically. Adjust the lens monitoring image vertically to proper monitoring angle.
- 3. Tighten adjusting screw and fix the dome module.

Note

Range of adjusting lens angle: vertical ($0^{\circ}\sim+75^{\circ}$), horizontal ($0^{\circ}\sim+355^{\circ}$).

- Please implement the following steps for the device shown in Figure 2-7.
- 1. Hold the rotation bracket on both sides, turn the rotation bracket horizontally, and adjust the lens direction horizontally to the targeted position.
- 2. Loosen adjusting screws (do not remove them completely, just make them loose), hold the dome module to make lens rotate vertically. Adjust the lens monitoring image vertically to proper monitoring angle.
- 3. Tighten adjusting screw, hold LED light cover and adjust image angle.

Note

- ❖ Range of adjusting lens angle: vertical ($0^{\circ}\sim+75^{\circ}$), horizontal ($0^{\circ}\sim+355^{\circ}$), image rotation direction ($0^{\circ}\sim+355^{\circ}$).
- ❖ Please be aware of the image rotation direction when it rotates to 64° vertically, which is to avoid outer cover blocking IR light and affect the IR result.

Adjust Manual Vari-focal Lens (Optional)

Note

For motorized vari-focal lens, it needs no adjustment during installation, but it needs to confirm monitoring range during installation, it is better to confirm result via mutual switch between W and T.

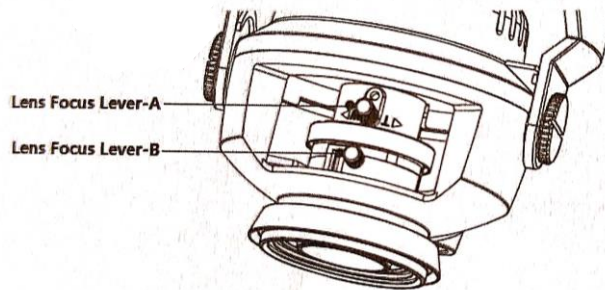


Figure II-vii

Step 1

Loosen lens focus lever A slightly, and then slightly move lens focus lever A to make it swing; adjust the lens focal length to the needed position according to the image display.

Step 2

Loosen lens focus lever B slightly, and then slightly move lens focus lever B to make it swing; make the lens focus clear according to the image display, and then tighten the lens focus lever B firmly.

Step 3

The image may become blurry during the process of tightening the lens focus lever B; adjust the image slightly via moving lens focus lever A to make the image clear, finally lock the lens focus lever A firmly.

II.iii Device Installation Steps of HD-IR Vari-focal Dome Network Camera C

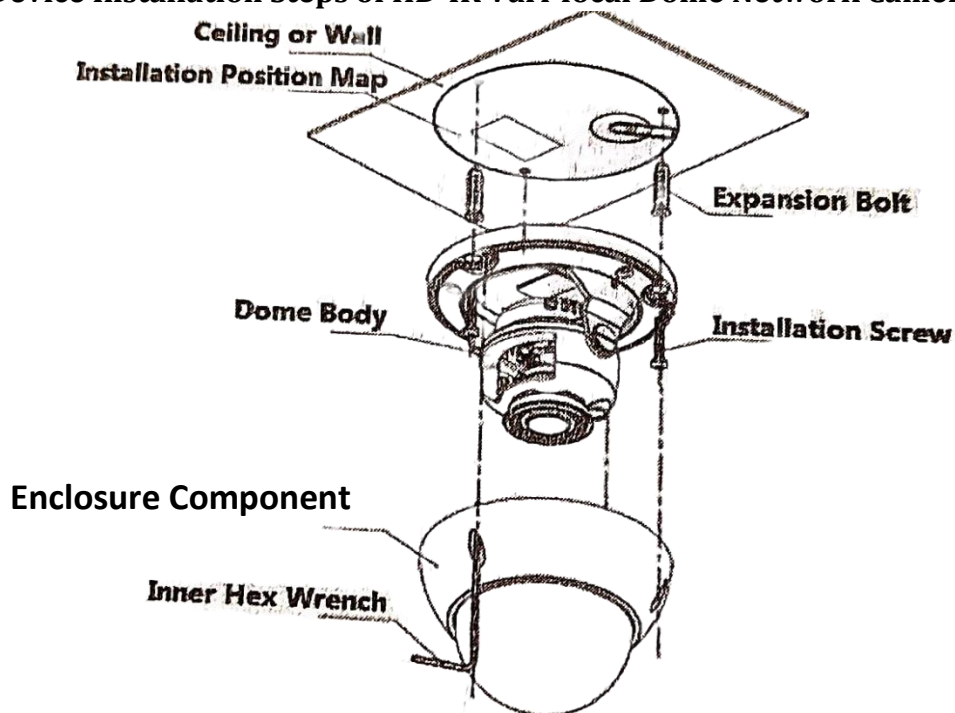


Figure II.viii

Step 1

Use inner hex wrench in the accessories bag to open dome enclosure by unfastening three inner hex screws on the enclosure.

Step 2

Install SD card, which is shown in Figure 2-11.

Note:

It needs to implement the step when the device is equipped with Micro SD card slot and it needs to use Micro SD card.

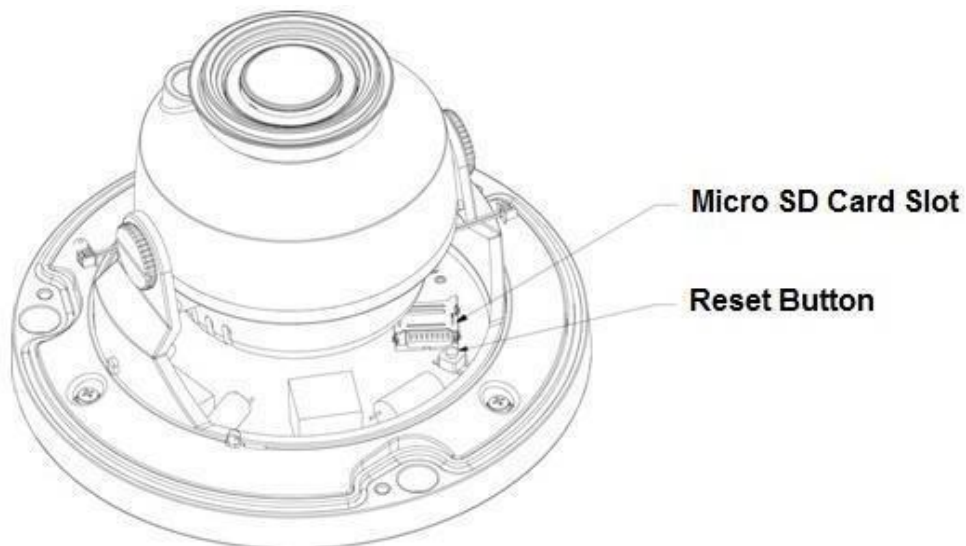


Figure II-ix

Note:

- Long press the "Reset" button shown in Figure II-ix for 10 seconds when the device is power on if the device needs to be restored to factory default setting.
 - If the device needs to use WPS function, short press "Reset" button for 1~2 seconds when the device is power on, press the WPS button of the router, generally the device can be connected to the corresponding router within 1 minute (only supported by some models).
1. Find the Micro SD card slot and open the Micro SD card slot according to the direction shown in Figure II-x.

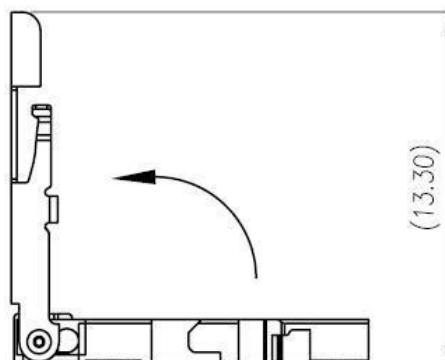


Figure II-x

2. Adjust the direction of Micro SD card and install it into the installation slot.

3. Close the Micro SD card slot and lock the slot firmly.

Step 3

Fix the device on the installation surface

1. Take out the installation position map from the accessories bag and paste it on the installation surface (ceiling or wall), dig three bottom holes for plastic expansion bolt according to the three holes sites with cross sign on the installation position map, then insert three expansion bolts into the installation holes and lock them firmly.
2. Adjust the device installation pedestal to the proper position and then pull cable through the exit hole on Installation surface. Make direction of TOP sign same as it on installation position map. Line up the three screw holes in the device pedestal to the three plastic expansion bolt holes in the installation position, and then insert three self-tapping screws into the three plastic expansion bolts and lock them firmly. Finally fix the dome body on installation surface.

Note:

- If users adopt top outlet mode from installation surface when installing cable, you must dig an exit hole on installation surface according to the installation position map.
- If users adopt side cable outlet when installing cable, it must go through the U-shape channel on dome pedestal, and take out cable from the side exit hole on pedestal.

Step 4

Adjust device monitoring direction, which is shown in Figure II-xi.

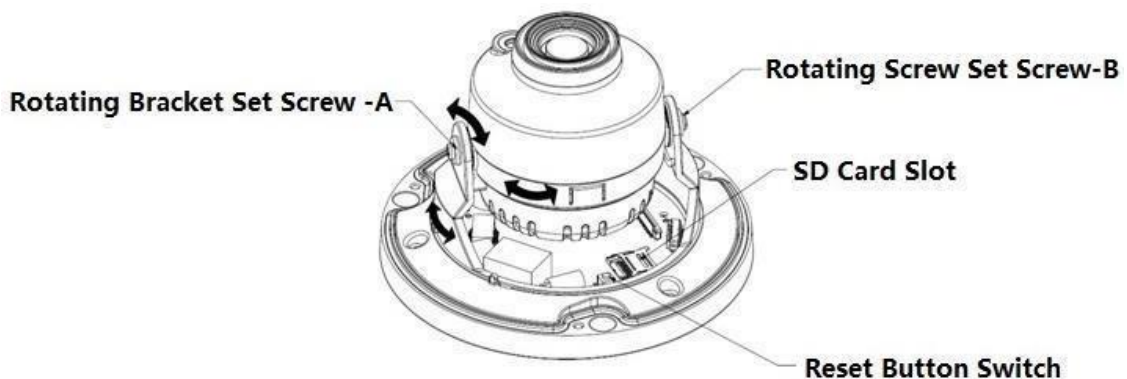


Figure II-xi

Hold the rotation bracket on both sides, turn the rotation bracket horizontally, adjust the lens direction horizontally to the targeted position; loosen the two hand screws on the both sides of the rotation bracket (do not remove them completely, just make them loose), hold the camera module to make the lens rotate vertically, adjust the vertical direction of lens monitoring image to a proper monitoring angle, then tighten the fixed screws on the decoration cover.

Note:

Range of adjusting lens angle: vertical ($0^{\circ} \sim +75^{\circ}$), horizontal ($0^{\circ} \sim +355^{\circ}$).

Step 5

Adjust manual vari-focal lens (optional), which is shown in Figure II-xii.

Note:

The motorized vari-focal series are equipped with motorized vari-focal lens by default, which

needs no manual adjustment.

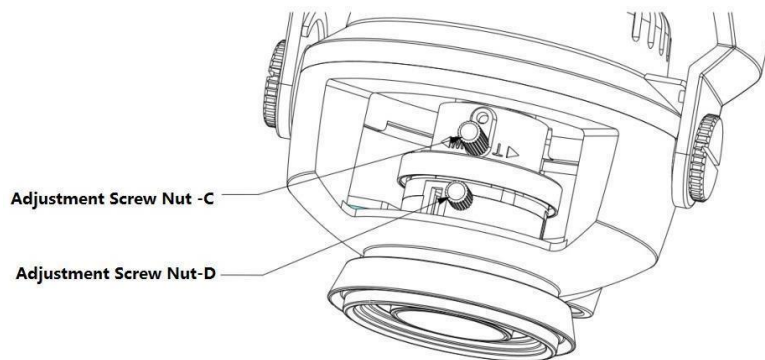


Figure II-xii

1. Loosen the adjustment screw C slightly, and then move the threaded rod of adjustment screw C slightly to make it swing, adjust the lens focal length to the needed position according to the image display.
2. Loosen the adjustment screw D slightly, and then move the threaded rod of adjustment screw D slightly to make it swing, make the lens focus clear according to the image display, then tighten the adjusting screw D.
3. The image may become blurry during the process of tightening adjusting screw D, adjust the image slightly via moving adjusting screw C, then adjust the image to become clear and finally tighten the screw C.

Step 6

Take up the dome enclosure, put it back on the camera properly regarding to screw and hole, and fasten the three inner hex screws with wrench. So far the installation is completed.

II.iv Device Installation Steps for Metal Dome

Important

Before the installation, please make sure the installation environments can at least support 3x weight of the camera.

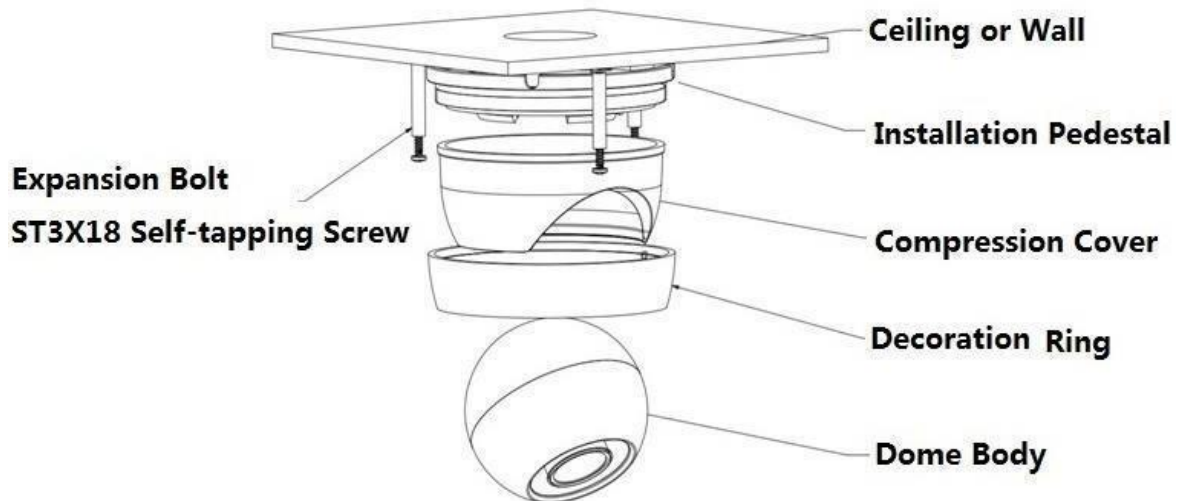


Figure II-xiii

Step 1

Turn the decoration ring clockwise out of the button placement and take it out.

Step 2

Take out the installation position map from the accessories bag, and stick it on the ceiling or wall and other installation surface according to the monitoring area. Dig holes on the ceiling or other installation surface according to the hole location of four expansion bolts signed on the position map and then insert four plastic expansion bolts into the holes, secure them firmly. Clients have to pull the cable through the trunking when installing the device.

Step 3

Adjust the device installation pedestal to the proper position and line up the four screw holes in the device pedestal to the four plastic expansion bolt holes, and then put the four self-tapping screws into the four plastic expansion bolts and fix them firmly. Unscrew the decoration ring to adjust monitoring area, adjust the dome lens and aim the location. Fix the decoration ring firmly after adjusting the location.

II.v Device Installation Steps for Plastic Dome

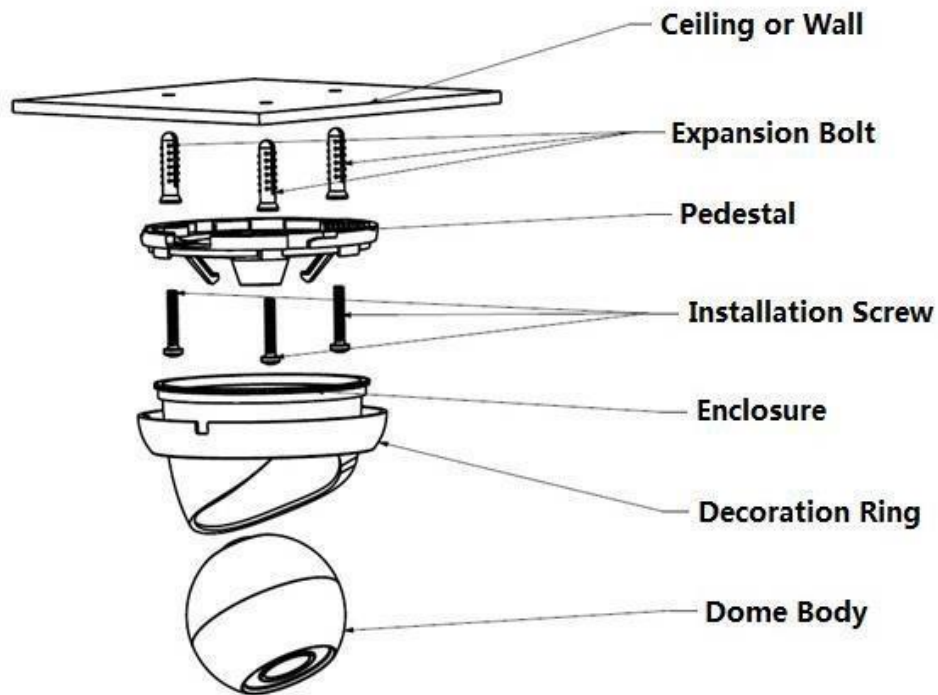


Figure II-xiv

Step 1

Turn the decoration ring clockwise out of the button placement and take it out.

Step 2

Take out the installation position map from the accessories bag, and stick it on the ceiling or wall and other installation surface according to the monitoring area. Dig holes on the ceiling or other installation surface according to the hole location of three expansion bolts signed on the position map and then insert three plastic expansion bolts into the holes, secure them firmly. Clients have to pull the cable through the trunking when installing the device.

Step 3

Adjust the device installation pedestal to the proper position and line up the three screw holes in the device pedestal to the three plastic expansion bolt holes, and then put the three self-tapping screws into the three plastic expansion bolts and fix them firmly. Make the enclosure buckle stuck into the pedestal, then adjust the camera to a proper monitoring position via rotating the enclosure and dome.

Step 4

Aim the three spigots at the gap and rotate the decoration ring bottom up clockwise into the pedestal shown in the Figure above, when you hear a "Ca" sound, it is rotated in place.

II.vi Device Installation Steps of HD IR Fixed Mini-Dome Network Camera

Note:

Before installation, please make sure the installation surface can support a minimum of 3 times the weight of the camera and bracket.

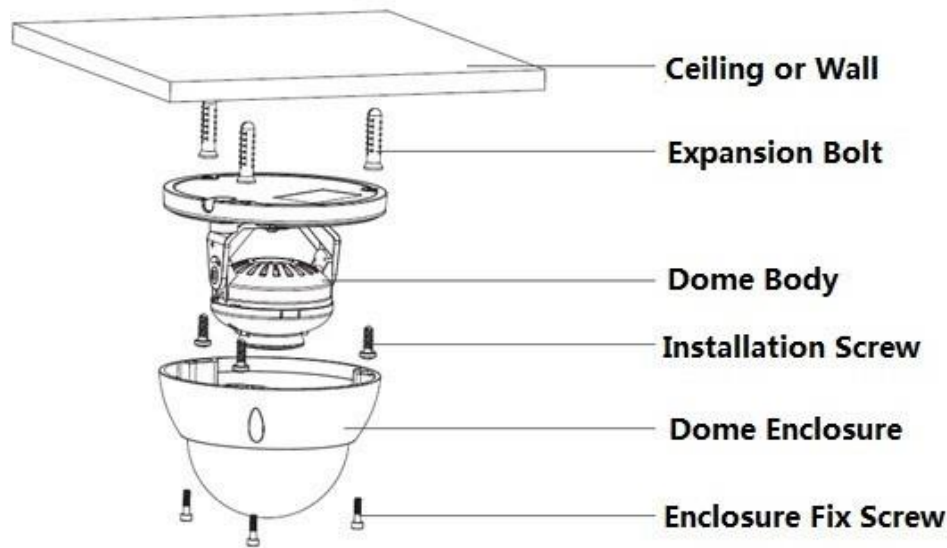


Figure II-xv

Step 1

Use inner hex wrench in the accessories bag to open dome enclosure by unfastening three inner hex screws on enclosure.

Step 2

Put installation template on the designated surface where you will install the device (wall or ceiling).

Step 3

Drill holes according to position of the holes on the installation template and then insert the expansion bolts in the holes. Secure these three bolts firmly.

Note:

- If user pulls out cable from top of installation surface, you must dig an exit hole on installation surface according to the installation template.
- If user pulls out cable from side of cable channel, it must go through the U-shape channel on dome pedestal, and take out cable from the side exit hole on pedestal.

Step 4

Adjust the device installation pedestal to the proper position and then pull cable through the exit hole on installation surface. Make direction of TOP sign same as it is on the installation template. Line up the three screw holes in the device pedestal to the three plastic expansion bolt holes in the installation position. Put the three self-tapping screws in the three plastic expansion bolts firmly. Fix dome body on installation surface.

Step 5

Hold both sides of the rotation bracket bottom with hands, rotate horizontally along the axis, and adjust lens horizontal direction to designated position. Hold the LED decoration cover with hand, rotate along the vertical direction, adjust the lens vertical direction to designated position; it is okay to loosen the fix screws on both sides of the bracket first if it is too tight to adjust (just make it loose, do not take it out), then adjust the lens, tighten the fix screws after adjustment. Hold the LED decoration cover with hands, rotate horizontally along the axis, and adjust the lens image to

designated position.

Range of lens: vertical (0° — $+64^{\circ}$), horizontal (0° — $+355^{\circ}$), image rotation direction (0° — $+355^{\circ}$).

Note:

When tilted to 64° vertically, please make sure to set the image rotation correctly in order to avoid the outercover blocking the IR light which would result in IR reflection.

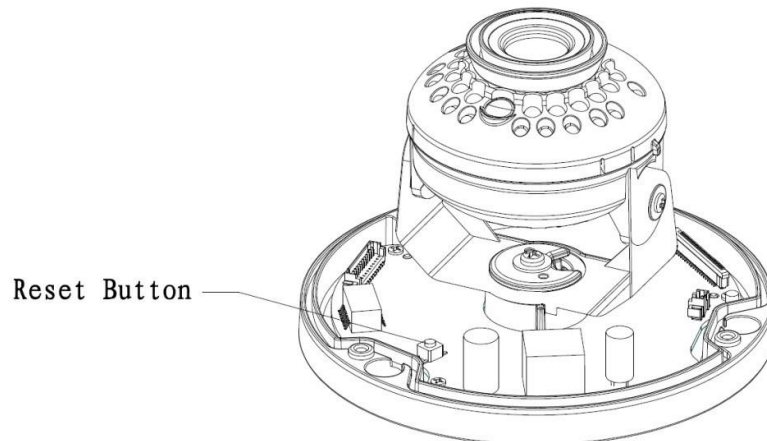


Figure II.xvi

Note:

Long press the “Reset button” shown in Figure 2-2 for 10 seconds when the device is powered on if the device needs to be restored to the factory default setting.

Step 6

Take up the dome enclosure, put it back on the camera properly regarding to screw and hole, and fasten the three inner hex screws with wrench.

II.vii Device Installation Steps of HD IR Wedge Dome Network Camera

Note:

Before the installation, please make sure the installation environments can at least support 3x weight of the camera and the bracket.

Please cut off the device power and turn off the device before installing Micro SD card.

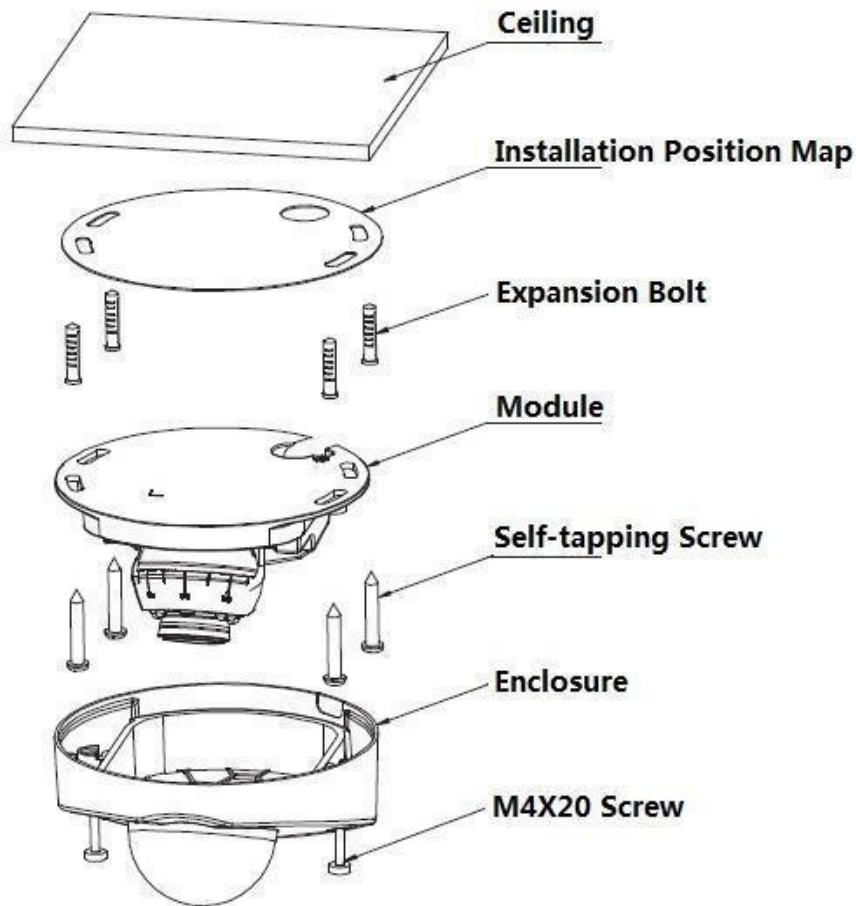


Figure II-xvii

Step 1

Loosen M4×20 screw and take down the dome enclosure.

Step 2

Install Micro SD card (optional), which is shown in Figure 2-2.

Note:

It needs to implement the step when the device is equipped with Micro SD card slot and it needs to use Micro SD card.

Find the Micro SD card installation slot, adjust the direction of Micro SD card, insert the Micro SD card into the installation slot and install it well.

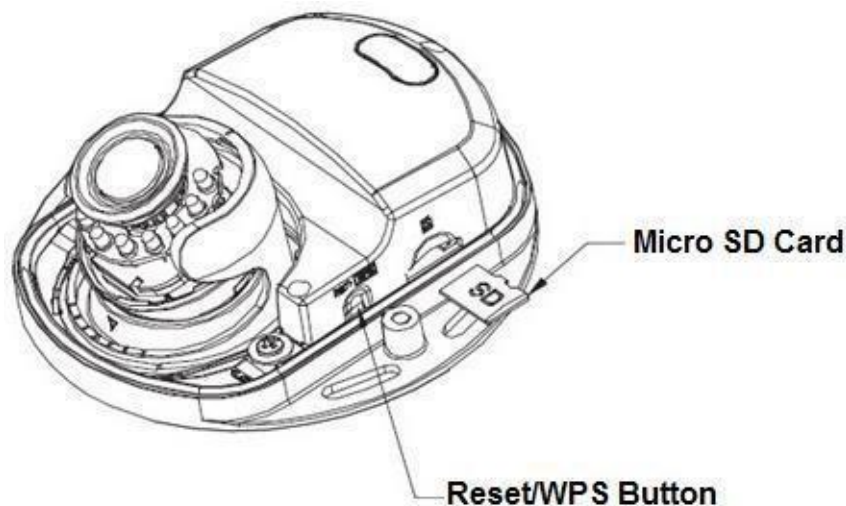


Figure II-xviii

Note:

Long press the reset button for 5 to 10 seconds to realize device reset function.

Step 3

Fix the device on the installation surface.

1. Please take out the installation position map in the accessories bag, and then paste it on the ceiling or the wall according to the outlet location, then dig four holes on the installation surface according to the sign on the installation position map. Take out the expansion bolts from the accessories bag and insert them into the installation holes and secure firmly.
2. Adjust the dome pedestal according to the top outlet or side outlet.
 - If you select top outlet, then it needs to dig a “cable exit hole” on the installation surface according to the installation position map.
 - If you select side outlet, first it needs to remove the reserved gap on the enclosure, and then pull the cable through the side outlet slot between the installation surface and pedestal.
3. Aim the screw fixing holes on the dome pedestal at the expansion bolt fixing hole on the installation surface, then tighten four self-tapping screws into the expansion bolts and secure firmly, and fix the dome on the installation surface.

Note:

The range of lens adjustment angle: horizontal rotation direction ($-30^{\circ}\sim+30^{\circ}$), vertical rotation direction ($0^{\circ}\sim+80^{\circ}$), image rotation direction ($0^{\circ}\sim+360^{\circ}$).

II.viii Device Installation Steps of Metal Fixed LXIR Bullet Network Camera

Note

- The following figures are for reference only; please refer to the product for more details.
- Make sure the bracket installation surface can sustain at least 3X weight of the total weight of bracket and camera.
- Some devices do not support manual focusing lever, please refer to the real product for more details.

Note:

Please make sure the installation surface can min support the 3X weight of the camera and the bracket.

Step 1

Open accessories bag, take out installation position map and stick it to designated surface where you will install the device (wall or ceiling).

Step 2

Dig a hole according to position of hole on installation position map.

Step 3

Open accessories bag, take out expansion bolts and insert them into the holes you just dug.

Step 4

Open accessories bag and take out the self-tapping screws. Aim the expansion bolts to the installation holes on the device pedestal and fix the device on the installation surface (wall or ceiling) with self- tapping screws.

Step 5

Plug external wiring of the device properly.

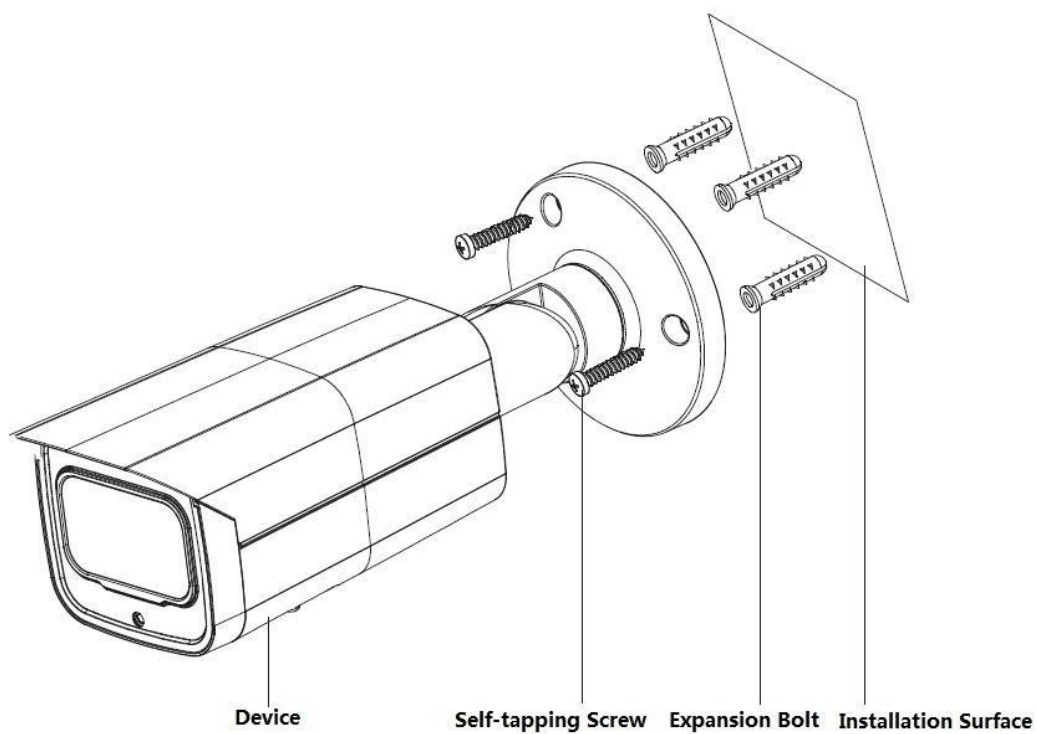


Figure II-xix

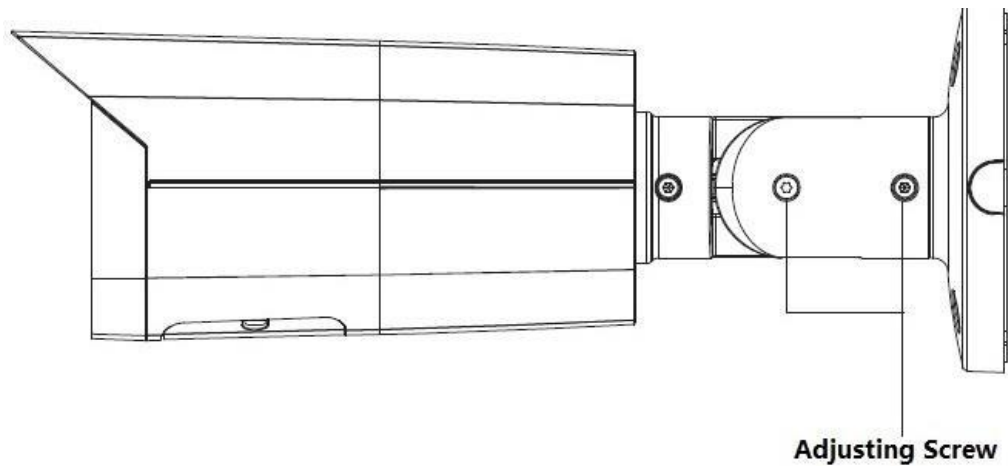


Figure II-xx

Step 6

Use inner hex screwdriver to loosen adjusting screw shown in Figure II-xix.

Step 7

Adjust the device in all possible directions, and set its monitoring direction.

Step 8

Use inner hex screwdriver to tighten the adjusting screws.

Device Installation Steps for Plastic Fixed LXIR Bullet Network Camera

Step 1

Install camera bracket for cement wall.

Install expansion bolt (line up the installation holes of the expansion bolts to the installation holes of the bracket). Use self-tapping screws to fix the bracket, see Figure II-xx. For wooden wall, it is unnecessary to install expansion bolts, just use self-tapping screws directly to install and secure the bracket.

Step 2

Install the camera. Use the installation chassis of the camera bottom, use screws to install the camera on the bracket.

Step 3

Adjust the camera to the proper monitoring position according to the requirements.

Step 4

Tighten the button on the bracket firmly and fix the camera.

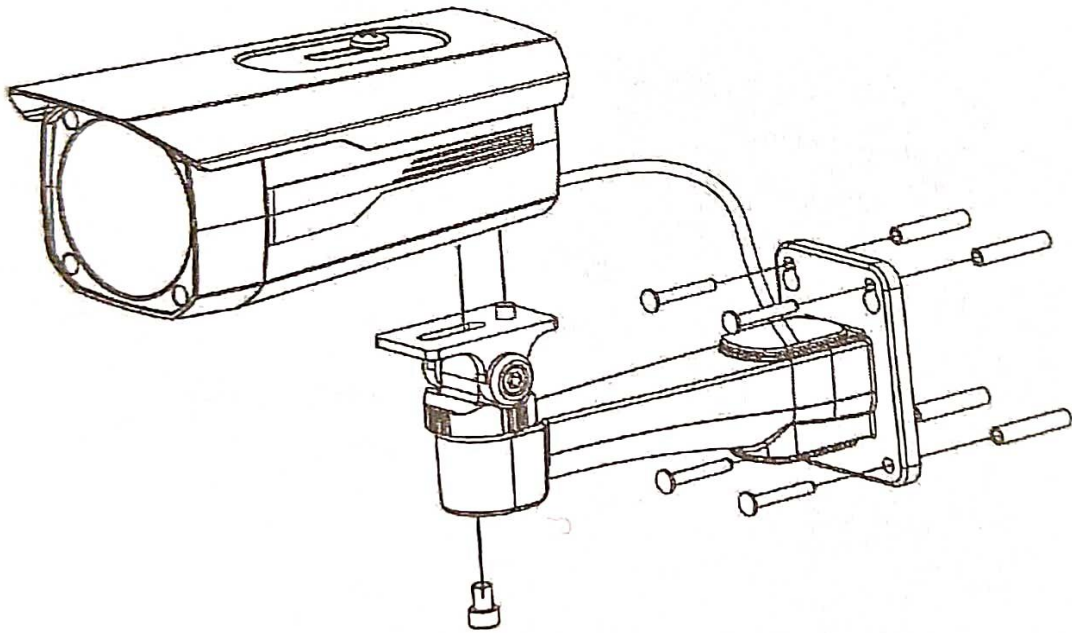


Figure II-xx

II.ix Device Installation Steps of Fixed Bullet Network Camera

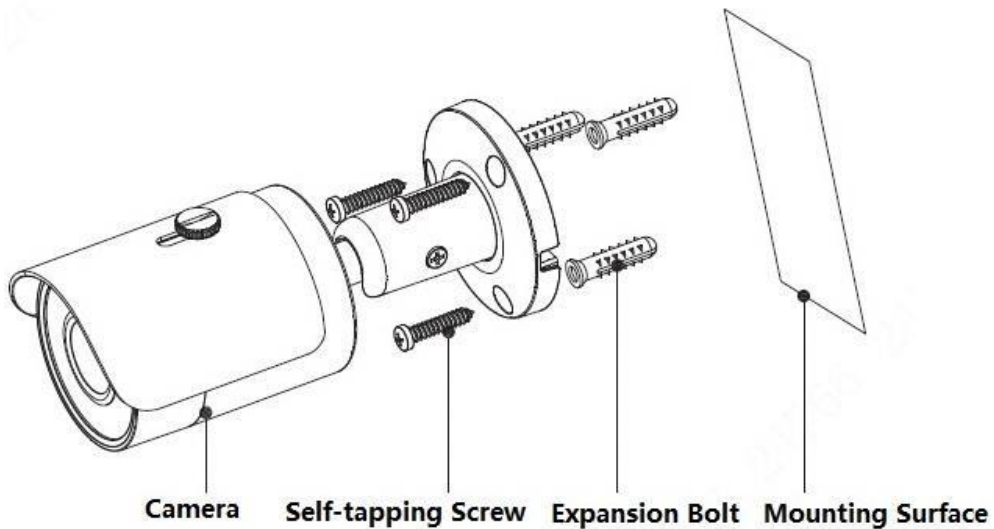


Figure II-xxi

Step 1

Stick installation map to designated surface where you will install the device (wall or ceiling).

Step 2

Dig a hole according to position of hole on installation map.

Step 3

Open accessories bag, take out expansion bolts and insert them into the hole you just dug.

Step 4

Open accessories bag, take out installation screws. Tighten the 4 screws to fix the device on the installation surface (wall or ceiling). You can move device sunshade back and forth. When you have fixed the device, you must tighten screws on sunshade.

Step 5

Plug external wiring of the device properly.

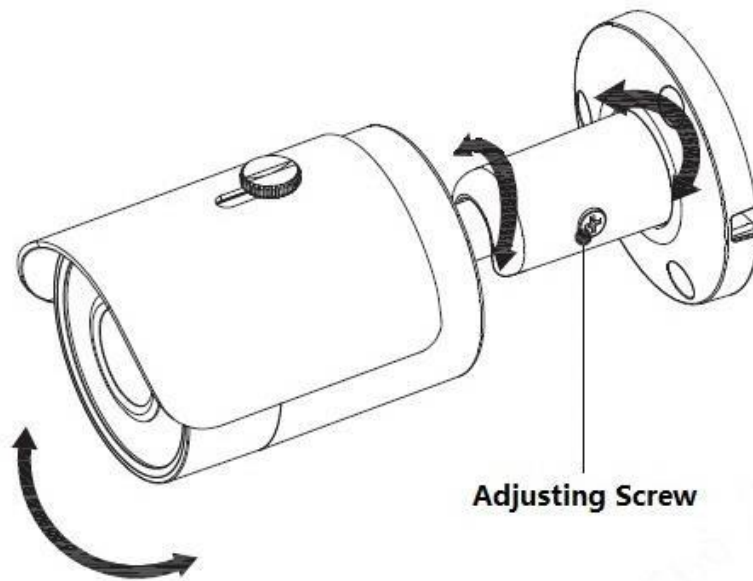


Figure II-xxii

Step 6

Use cross head screw-driver (in accessories bag) to loosen locking screw.

Step 7

Adjust the device in all possible directions, and set its monitoring direction according to the requirements.

Step 8

Use cross head screw-driver to tighten the locking screws.

II.x Device Installation Steps of HD-IR Bullet Network Camera A

Please make sure the installation surface can min support the 3X weight of the camera and the bracket.

Step 1

Open accessories bag, take out installation position map and stick it to designated surface where you will install the device (wall or ceiling).

Step 2

Dig a hole according to position of hole on installation position map.

Step 3

Open accessories bag, take out expansion bolts and insert them into the holes you just dug.

Step 4

Open accessories bag and take out the self-tapping screws, Alm the expansion bolts to the installation holes on the device pedestal and fix the device on the installation surface (wall or ceiling) with self- tapping screws.

Step 5

Plug external wiring of the device properly.

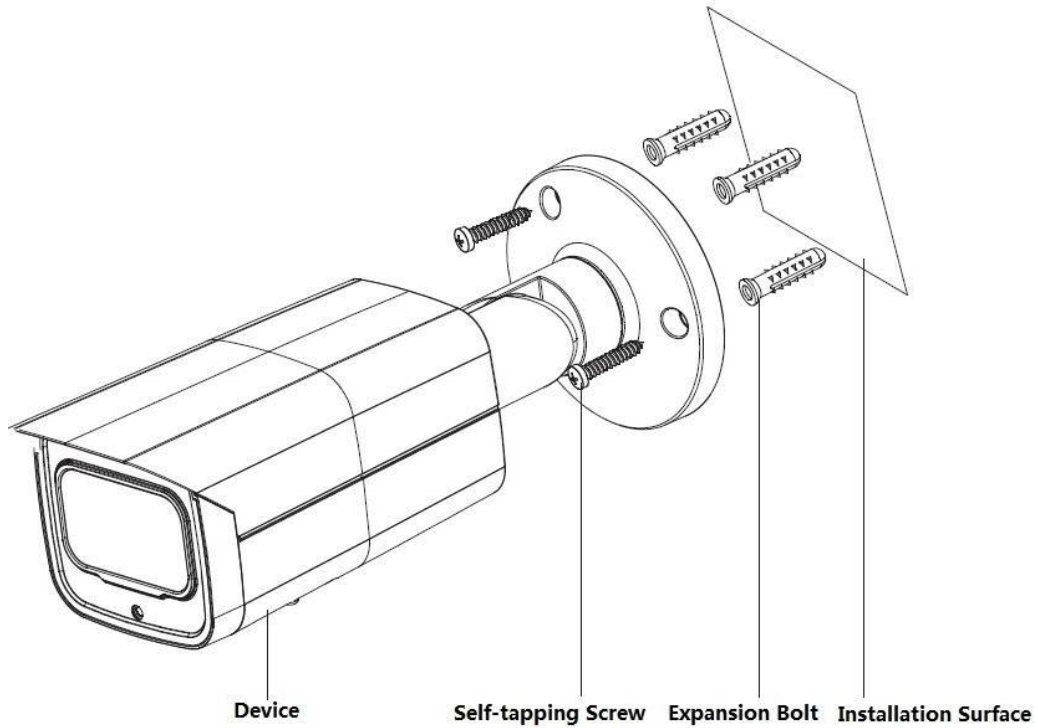


Figure II.xxiii

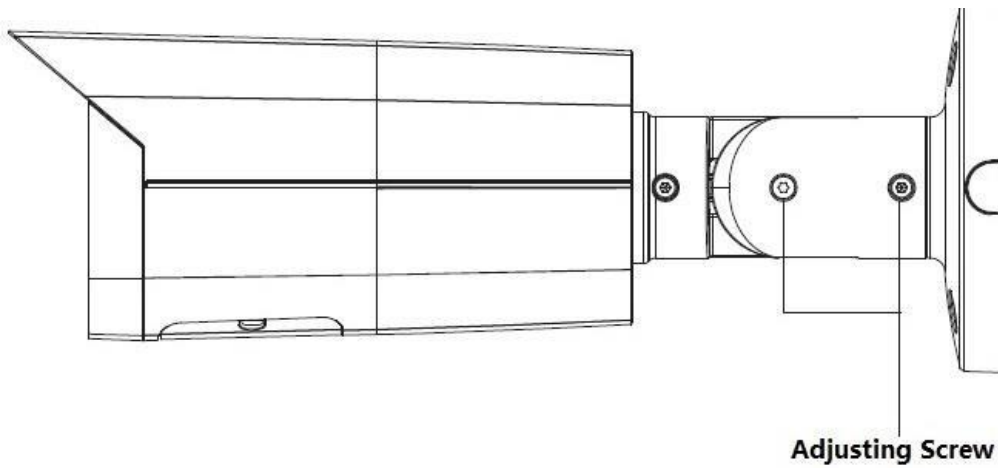


Figure II.xxiv

Step 6

Use Inner hex screwdriver to loosen adjusting screw shown in Figure 2-28.

Step 7

Adjust the device in all possible directions, and set its monitoring direction.

Step 8

Use inner hex screwdriver to tighten the adjusting screws.

Note:

Some models don't have lower cover, which don't support the following steps.

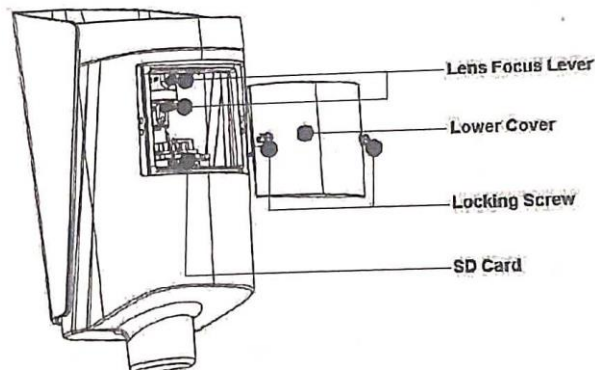


Figure II-xxv

Step 9

Screw out the locking screw (shown in Figure II-xxv) by screwdriver and take off the lower cover.

Step 10

Adjust the lens focus lever and set its monitoring direction more accurately by external focus.

Step 11

Use screwdriver to tighten the locking screws.

II.xi Device Installation Steps of HD IR Bullet Network Camera B

Note

Please cut off the device power before installing Micro SD card.

The bracket installation wall shall be thick enough to install expansion bolts and make sure it can sustain at least 3X weight of the total weight of bracket and camera.

The following figures are for reference only, please refer to the product for more details.

Step1

Install the Micro SD card (optional).

Note

Implement this step when the device is equipped with Micro SD card slot and it needs to use Micro SD card.

Open the lower cover and then you can see the Micro SD card slot and reset button. Insert the Micro SD card into the slot as shown in Figure II-xxvi. The card slot is elastic, so you only need to slightly press the Micro SD card into place.

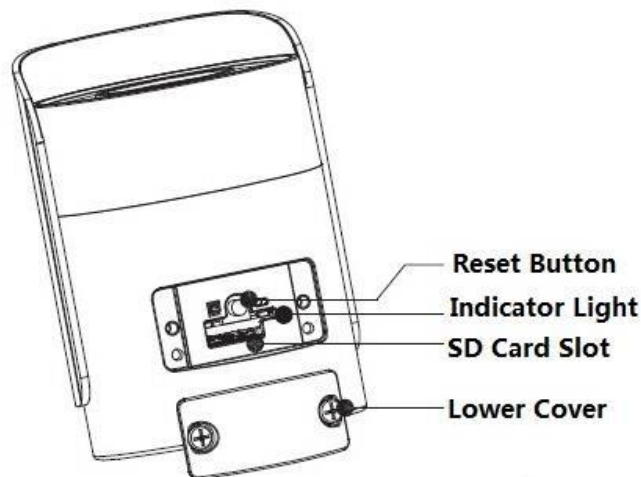


Figure II-xxvi

Note

Long press the reset button for 4 seconds to 5 seconds to realize device reset function. Fix the bracket on the installation surface. The bracket is not provided with the product, please purchase it separately.

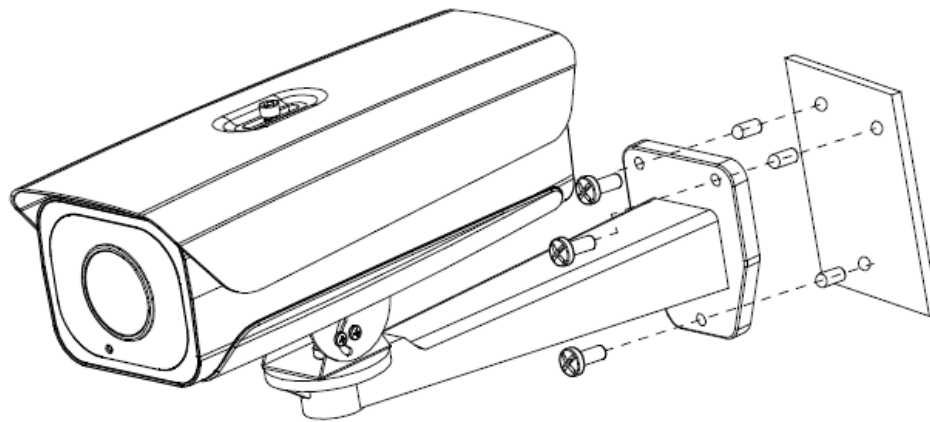


Figure II-xxvii

- a) Mark the bracket mounting hole sites on the installation surface, and dig four expansion bolt bottom holes in the marked hole sites on the installation surface, then insert four expansion bolts into the mounting holes and lock them firmly.
- b) Align the four screw holes on the bottom of wall-mount bracket with four mounting hole sites on the installation surface, and then put four fixing screws into the four screw holes on the bracket bottom and lock them firmly.

Step3

Fix the device on the installation bracket. Align the mounting hole sites on the device enclosure bottom with the mounting holes on the front of wall-mount bracket, and then put the screws into the screw holes and lock them firmly.

II.xii Device Installation steps of HD-IR Bullet Network Camera C

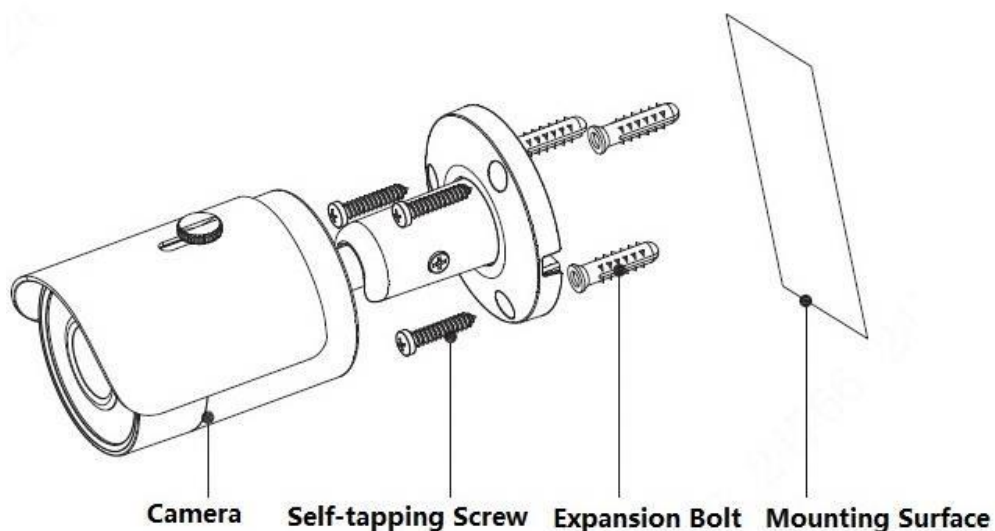


Figure II-xxviii

Step 1

Stick installation position map to designated surface where you will install the device(wall or ceiling).

Step 2

Dig a hole according to position of hole marked on installation map.

Step 3

Open accessories bag, take out expansion bolt and insert it into the hole you just dug.

Step 4

Open accessories bag, take out screws Tighten the 4 screws to fix the device on the installation surface (wall or ceiling) You can move device sunshade back and forth. When you have fixed the device, you must tighten screws on sunshade.

Step 5

Plug external wiring of the device properly.

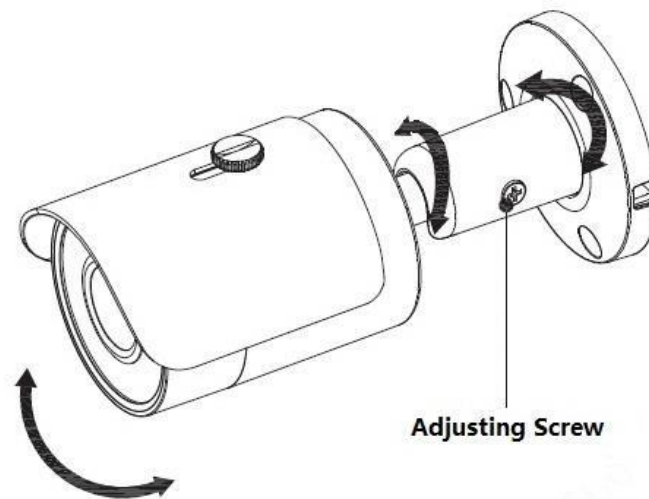


Figure II-xxix

Note:

- The location of the adjusting screw may be different due to different models, please refer to the figures above according to the actual product.
- Please be sure to loosen the adjusting screw when adjusting the device position and angle, tighten the adjusting screw after adjustment.
- The continuous rotation toward the same direction for the camera body has to be within 3 circles.
- The lower cover can't be opened for a long time, besides; it can't be opened in the humid environment in case water mist and fog problem may happen to the device.

Step 6

Use screwdriver (in accessories bag) to loosen adjusting screw.

Step 7

Adjust the device in all possible directions, and set its monitoring direction.

Step 8

Use screwdriver to tighten the screws.

3 NVR Installation

I. Hard Disk Installation

Please install the Hard Disk first. If not, the Video Recorder can only monitor normally, but it can not record or playback.



1. Remove the case



2.Plug in SATA cable



3.Screw HDD to the bottom



4.Install the case back

Notice: Please try to choose a special monitoring hard drive disk in order to record for a longer time. The video recorder supports 3.5" or 2.5" SATA Hard Drive Warning: please make sure the power is off before installation.

II. Boot & Preview

- Make sure the power supply matches the requirements of the hard disk video recorder.
- After connecting the power, the indicator on the front of the NVR will light on and you will hear a buzzer sound, then the display will boot up and the device will access to the preview image.
- After the recovery of the non-normal power failure, the device will be automatically restored to the state before the power is off.

III. Function Setting Login System

After the normal boot, you have to log in first and the system will provide the corresponding function according to the user's rights.

Right click the mouse – (Main Menu)

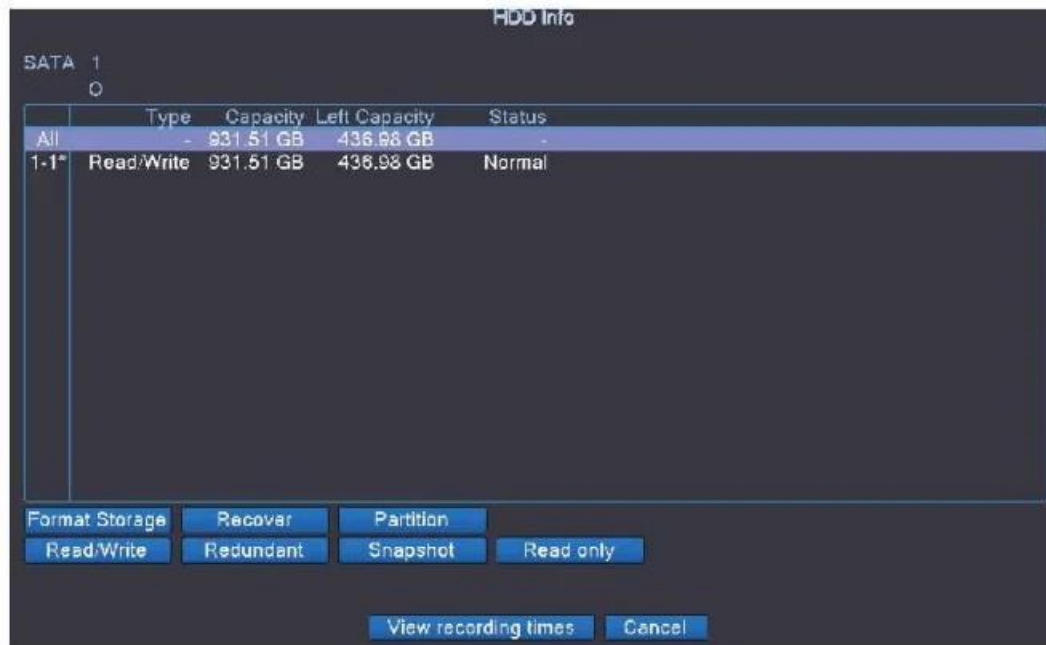


Default username: admin

Password:(leave it blank, null password)

IV. HDD Setup

Right click the mouse > **【Main Menu】** > **【Advanced】** > **【HDD info】**

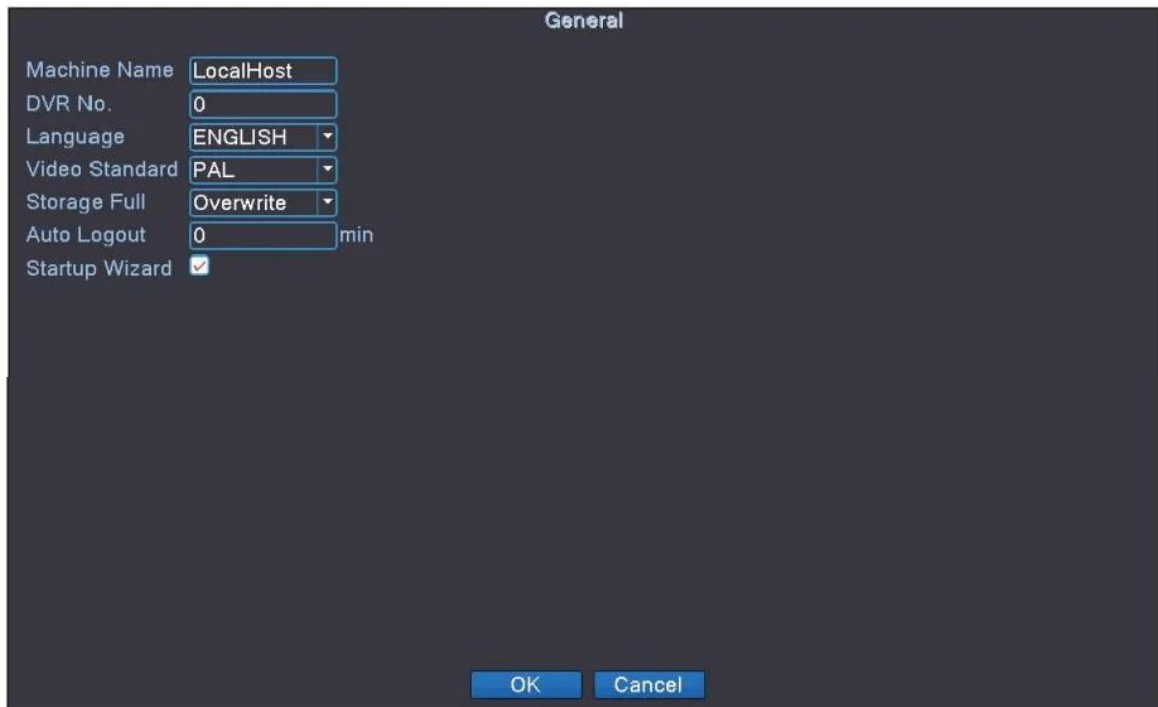


Choose the Hard Disk, click Format Storage, start to format the HDD.

Notice: Please confirm the Hard Disk is connected. The hard disk should be formatted before first use, so that it can record. It will be automatically overwritten when the Hard Disk storage is full if you set overwrite.

V. General

Right click the mouse > **【Main Menu】** > **【System】** > **【General】**



[Storage Full]

Choose Overwrite: continue recording video and cycle covering the former video while the storage of HDD is full.

Choose Stop: Stop recording video while the storage of HDD is full.

[Auto Logout] You can set up a 0-60 min auto standby, 0 min means you don't set up the standby time.

[Startup Wizard] Tick it to get startup wizard when reboot the system. (untick it as default)

VI. Record Setup

[Length] Set up the time length for per Video file, Default time is 60 minutes.

[Period] Set up the record period, it will start-up recording within the period.

[Regular] Within the setup period, regular recording video.

[Detect] Within the setup period, trigger "motion" signal, the device start to record motion.

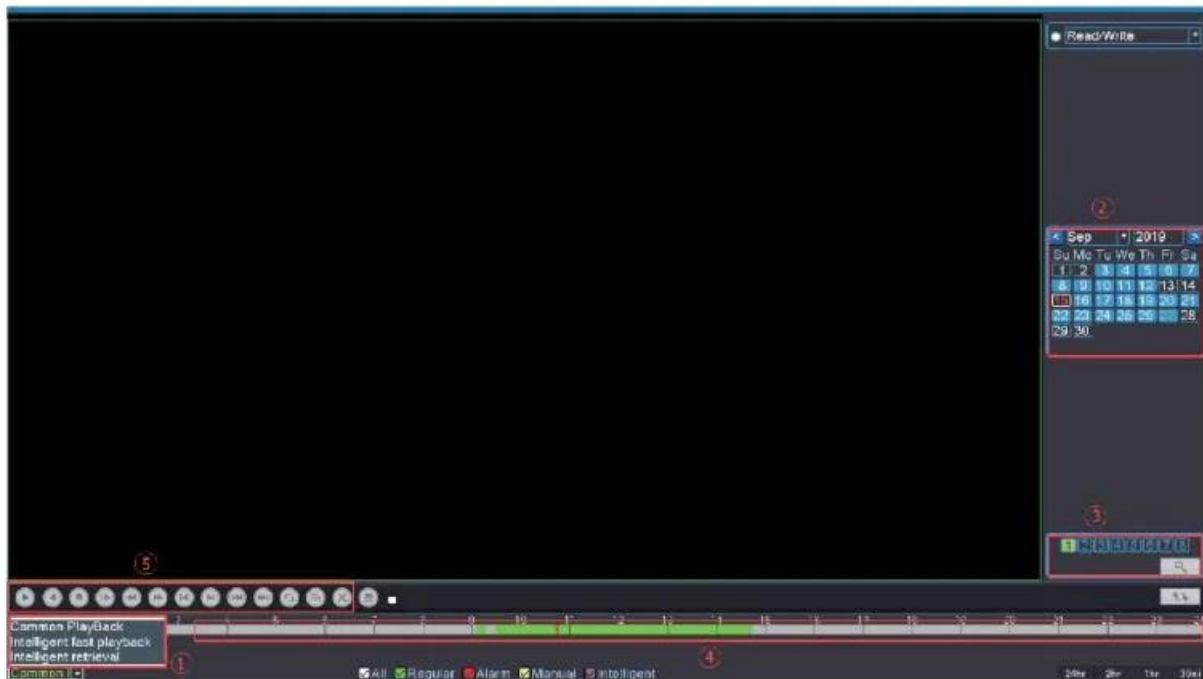
Notice: Default setting is a 24-hour recording continuously for all channels.

Right click the mouse > **【Main Menu】** > **【Record Conf.】**



V. Video Playback

Right click the mouse > **【Main Menu】** > **【PlayBack】**



Choose Play Mode

- Choose Video Date
- Playback Channel Option
- Video Playback Time
- Playback Control Key

 Start Playback	 Play Backward
 Stop Playing	 Slow Playback
 Rewind/Fast-forward	 Prev/Next Frame
 Prev/ Next File	 Repeat Playback
 Full Screen	 Start Editing

VI. Video Backup

Right click the mouse > **【Main Menu】** > **【System】** > **【Backup】**

Choose Video Type > Choose Channel > Choose time > Click Add button, search Video file, Choose the file in the list, Click Start button to backup, it will automatically prompt after backup completed.

Notice: USB disk must be FAT32 format. Please choose AVI format while backup, so that the backup video could play on PC directly.

VII. Human Detection

Right click the mouse > **【Main Menu】** > **【Alarm】** > **【Intelligent Alert】**

[Channel] Select demand Channel.

[IPC Activation] Set Alarm Sound and voice Prompts.

[Human Detect] When it detects people, it starts to record motion.

[Rule] Set detect area rule.

[Period] During the setting period, the device will trigger the alarm signal of human detection.

[Record Channel] Current channel you are setting is the Default Record Channel, when current channel detects motion, other channel will record motion if you choose other channels.

[MD Interval] During the interval time, there will trigger one alarm signal though it has motion detection for several times.

[Show Message] Tick it to show Alarm Status when detect motion.

[Buzzer] Tick it to beep when detect motion.

[FTP upload] Tick it to send message to FTP when detect motion.

[Send Email] Tick it to send Email when detect motion.

[Write Log] Tick it to write log when detect motion.

[Mobile reported] Tick it to send notifications to mobile via APP when detect motion.

VIII. Network Setup

Connect NVR to Router > **Right click the mouse** > **【Main Menu】** > **【Network】**

[DHCP Enable] Tick it to automatically obtain the IP address assigned by the server.

[IP address] Must be a unique IP address on the same LAN segment to avoid conflicts with other equipment in local area.

[HTTP Port] a port number for remote visit, default value is 80.

Network

Net Card: Wired NIC DHCP Enable

IP Address: 192 . 168 . 0 . 129

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 0 . 1

Primary DNS: 192 . 168 . 0 . 1

Secondary DNS: 192 . 168 . 0 . 1

Media Port: 34567

HTTP Port: 8089

HS Download:

Transfer Policy: Quality Prefe

Network encryption: No limited

NetService

POE transmission distance

OK Cancel

IX. Add IP Came

Right click the mouse > **【ChannelSet】** > **【IP channel】** > **【QuickSet】**

IP channel

1	Device Name	ACT	IP Address	Port	Device Info.
1	LocalHost	●	192.168.0.130	34567	00:12:41:13:81:e3

NETIP

Search

Add

Network

Smart Link

Quick set

18	<input type="checkbox"/>	IP Address	-	Connection Status	Channel Title	Device Type	IP Channel
1	<input type="checkbox"/>	192.168.0.130		Connected		IPC	1
2	<input type="checkbox"/>			NoConfig		IPC	1
3	<input type="checkbox"/>			NoConfig		IPC	1
4	<input type="checkbox"/>			NoConfig		IPC	1
5	<input type="checkbox"/>			NoConfig		IPC	1
6	<input type="checkbox"/>			NoConfig		IPC	1
7	<input type="checkbox"/>			NoConfig		IPC	1
8	<input type="checkbox"/>			NoConfig		IPC	1

Delete

Clear

Encode

Copy to

▲ ▼

Device Type: IPC Protocol: NETIP

IP Channel: 1

Device address: 192.168.0.130

Port: 34567

User Name: admin

Quick set

OK

OK

Apply Exit

Notice: Please confirm the User Name and Password of IPC is right or the video will not come out.

Important statements

- The appearance of product is subject to actual product, the manual for reference only. User manual and the software would be updated real-time, no special inform if updated. The manual may contain technical inaccuracies, inconsistency of the product functions and operations, or some printing errors, all these will be subject to our final explanations.

Safety Caution

- Do not put any bottle or cups with water on the device in case of spilling out.
- Do not put the device under the condition of high-temperature, heavy-dust, direct-sunlight or close to heat-source.
- Make sure the working temperature is between (-10°C-+50°C)
Do not disconnect the device when it is energized