Milesight

QUICK START GUIDE

Megapixel Network Camera for Video Surveillance

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Version 4.7

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Thank you for purchasing Milesight Network Camera. This Guide provides basic instructions on installing and accessing Milesight Network Camera. For more details, please refer to the User Manual.

1. Package Contents

Before installation, please verify that all the necessary items are supplied in the gift box as the package contents listed below. If any item is missing or damaged, please contact the shipper and your Milesight sales representative.

Sheet 1-1

Items		Quantity	Description
Default	Milesight Network Camera	1 PC	The purchased model
	Power Adapter	1 PC	DC 12V (optional for part of devices)
	Quick Start Guide	1 PC	Printed material
	Warranty Card	1 PC	Printed material
Optional	Lens		If purchased
	Bracket& Screw Pack		If purchased

2. Cautions

- Do not expose the product to rain or moisture
- Make sure the device is firmly fixed when mounting them on the wall or ceiling
- Make sure that the power supply voltage is correct before using the camera
- Do not use a third party power adapter
- Never attempt to disassemble or modify the camera

3. System Requirements

Operating System: Windows XP/Vista/7/8/10/Server 2000/Server 2008

CPU: 1.66GHz or higher

RAM: 1G or higher

Graphic memory: 128MB or more

Internet protocol: TCP/IP (IPv4/IPv6)

Web Browsers: Internet Explorer 8.0 and above version, Mozilla Firefox, Google Chrome and Safari

4. Hardware Overview

4.1 Mini Dome Network Camera

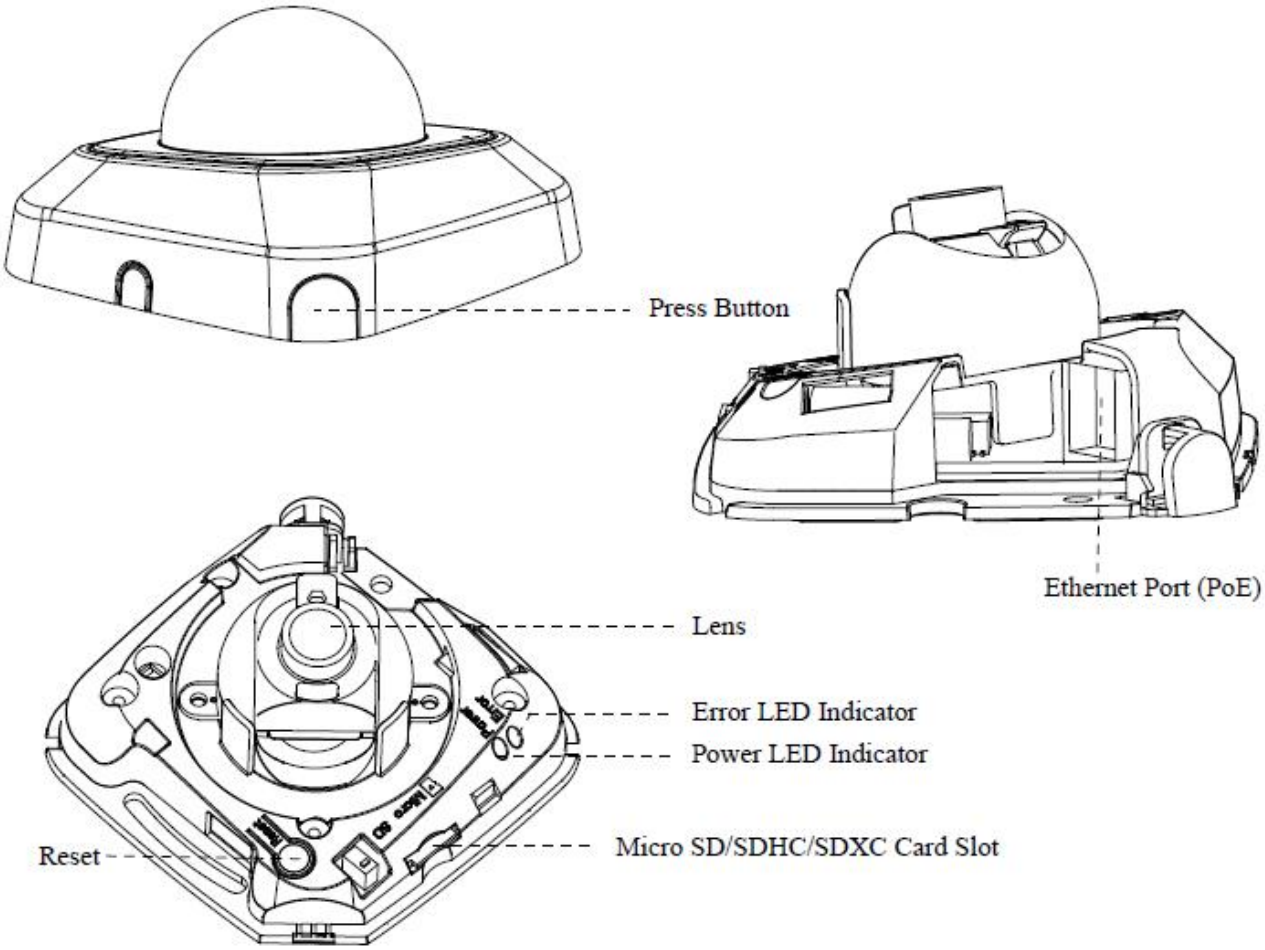


Figure 4-1 Mini Dome Network Camera

Note:

1) Error LED Indicator: Error LED Indicator is on when the device starts up or runs error;
2) Reset Button: Press “Reset” button for 5 seconds, then the device will be restored to factory default;
3) Only PoE is available for power supply.

4.2 IR Mini Dome Network Camera

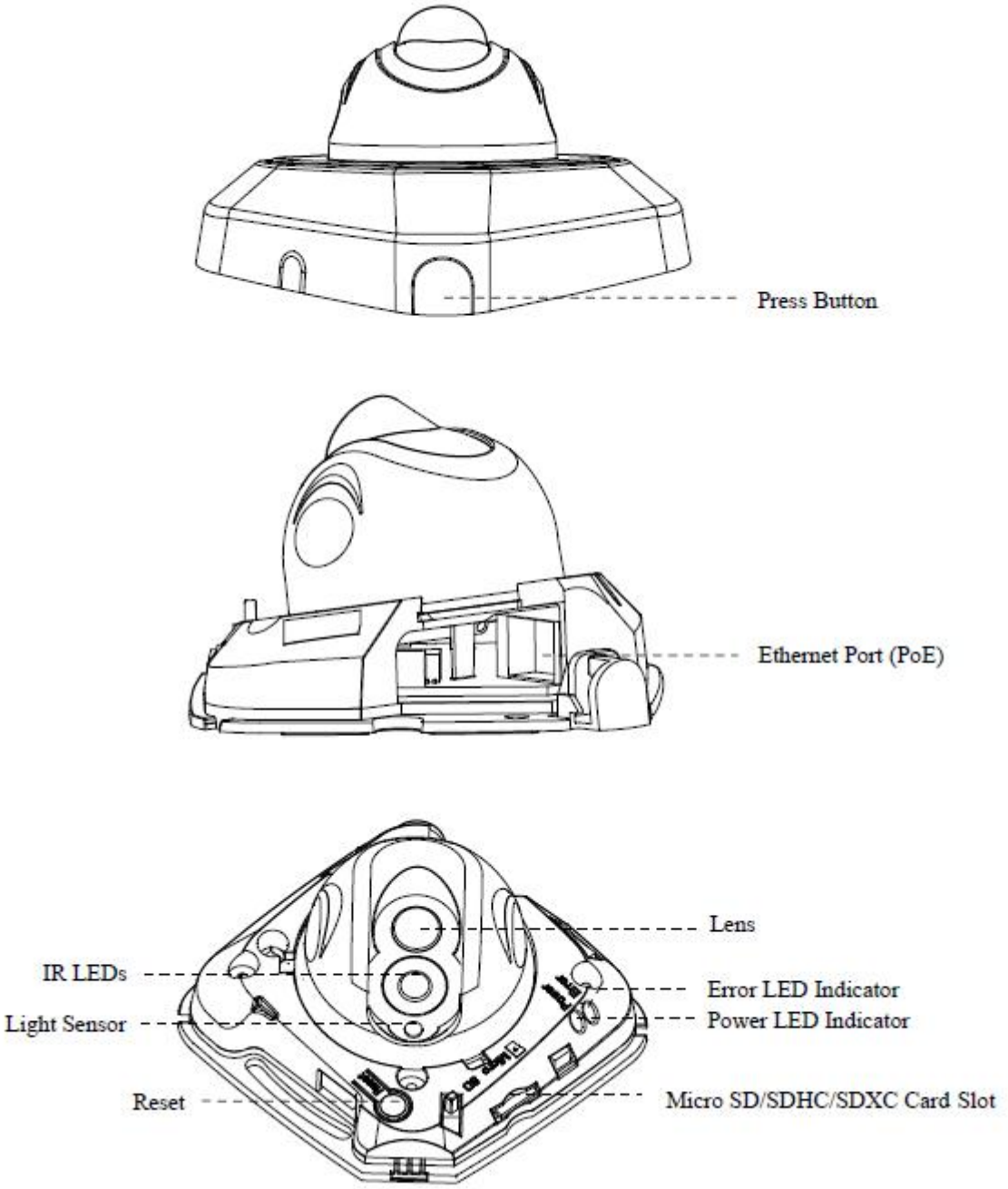


Figure 4-2 IR Mini Dome Network Camera

Note:

1) Error LED Indicator: Error LED Indicator is on when the device starts up or runs error;
2) Reset Button: Press “Reset” button for 5 seconds, then the device will be restored to factory default;
3) Only PoE is available for power supply.

4.3 Vandal-proof Mini Dome Network Camera

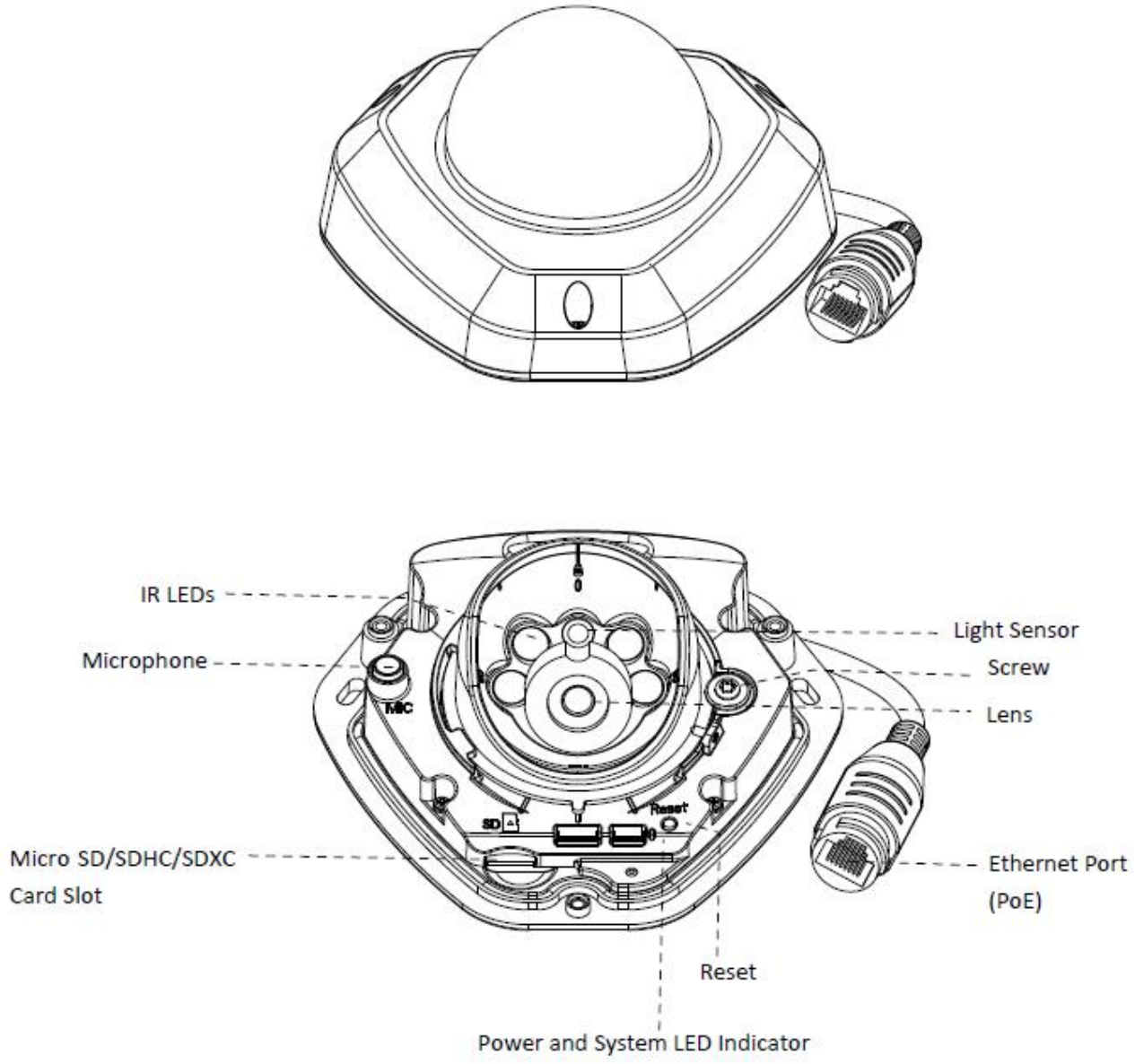


Figure 4-3 Vandal-proof Mini Dome Network Camera

Note:

1) Reset Button: Press “Reset” button for 5 seconds, then the device will be restored to factory default;
2) Only PoE is available for power supply.

4.4 Wi-Fi Mini Cube Network Camera

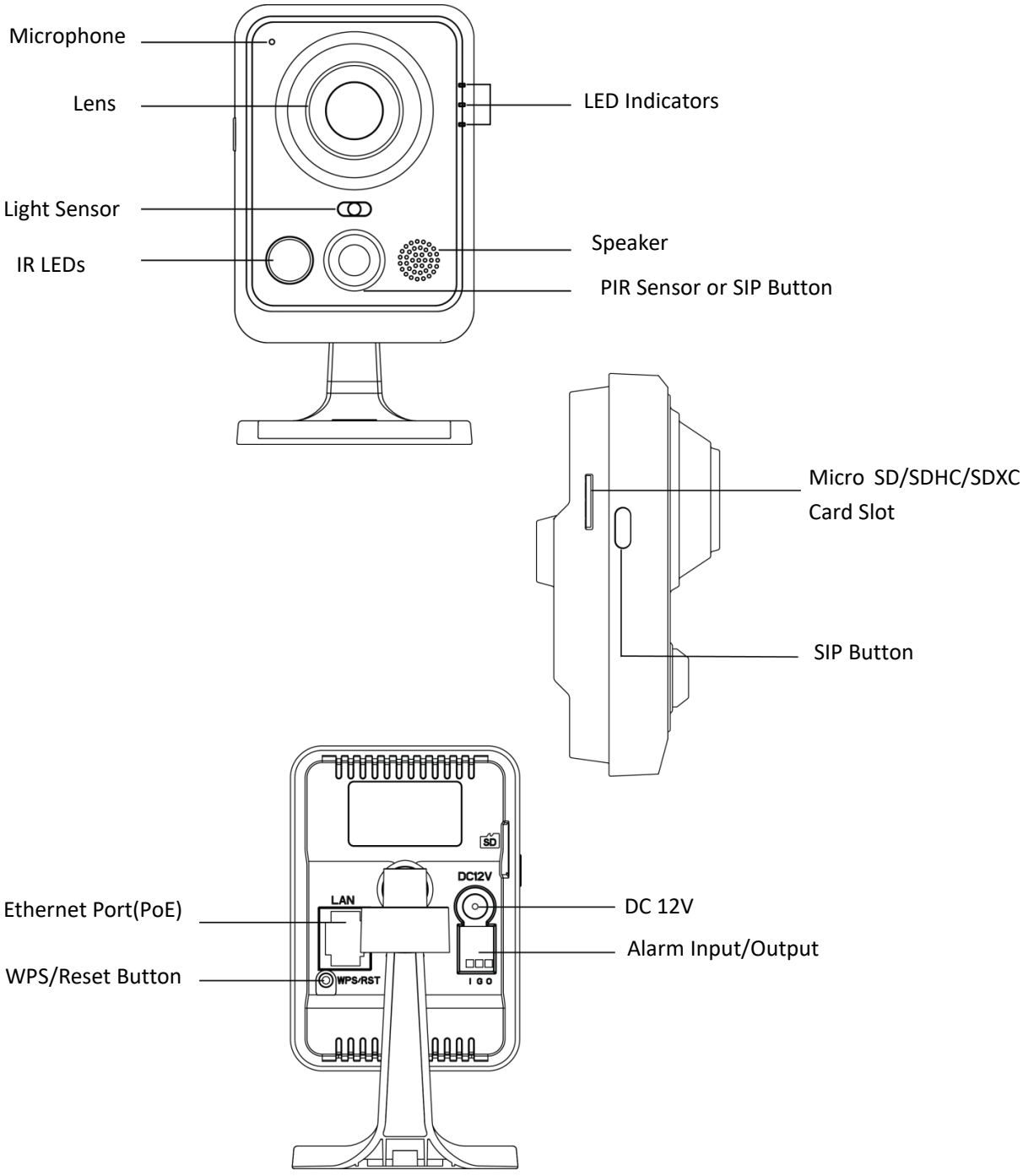


Figure 4-4 Wi-Fi Mini Cube Network Camera

Note:

1) SIP Button: Trigger alarm via SIP calling. After this button is pressed, the camera will call the SIP Phone;
2) WPS Button: Press this button, and then press the WPS button on your router to set up wireless connection automatically;
3) DC 12V and PoE are available for power supply;
4) Reset Button: Press “Reset” button for 5 seconds, then the device will be restored to factory default.

4.5 Mini Bullet Network Camera

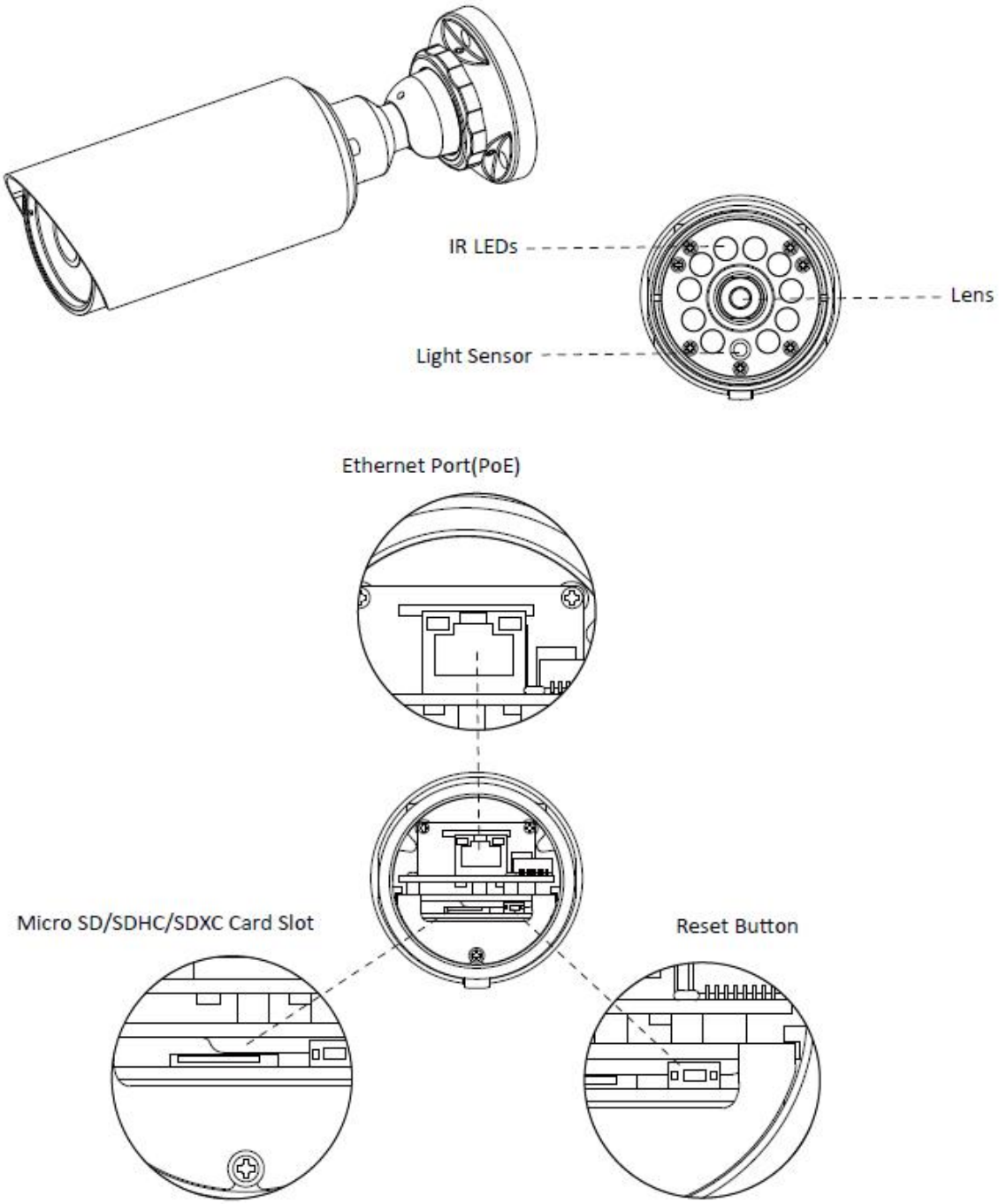
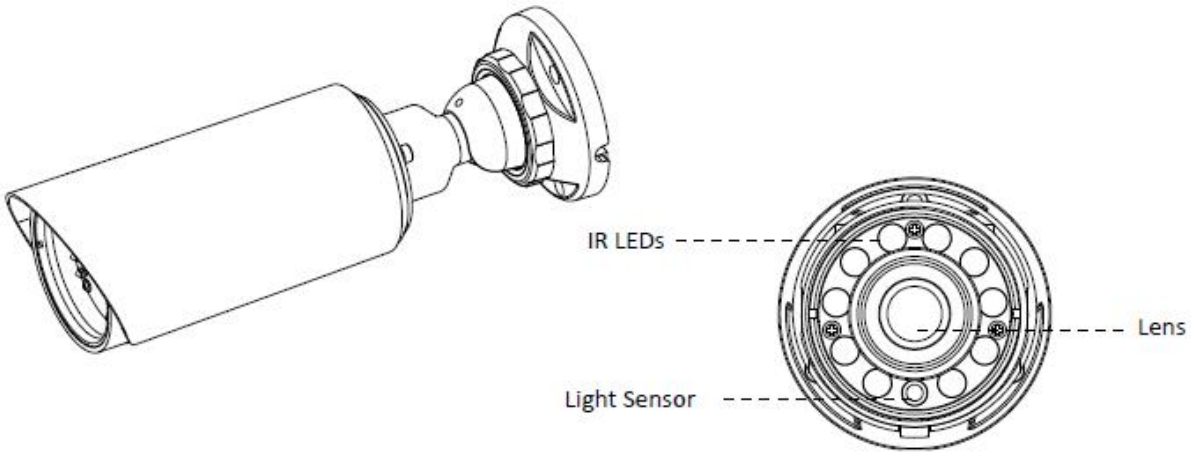


Figure 4-5 Mini Bullet Network Camera

Note:

1) Only PoE is available for power supply;
2) Reset Button: Press “Reset” button for 5 seconds, then the device will be restored to factory default.

4.6 Remote Focus&Zoom Mini Bullet Network Camera



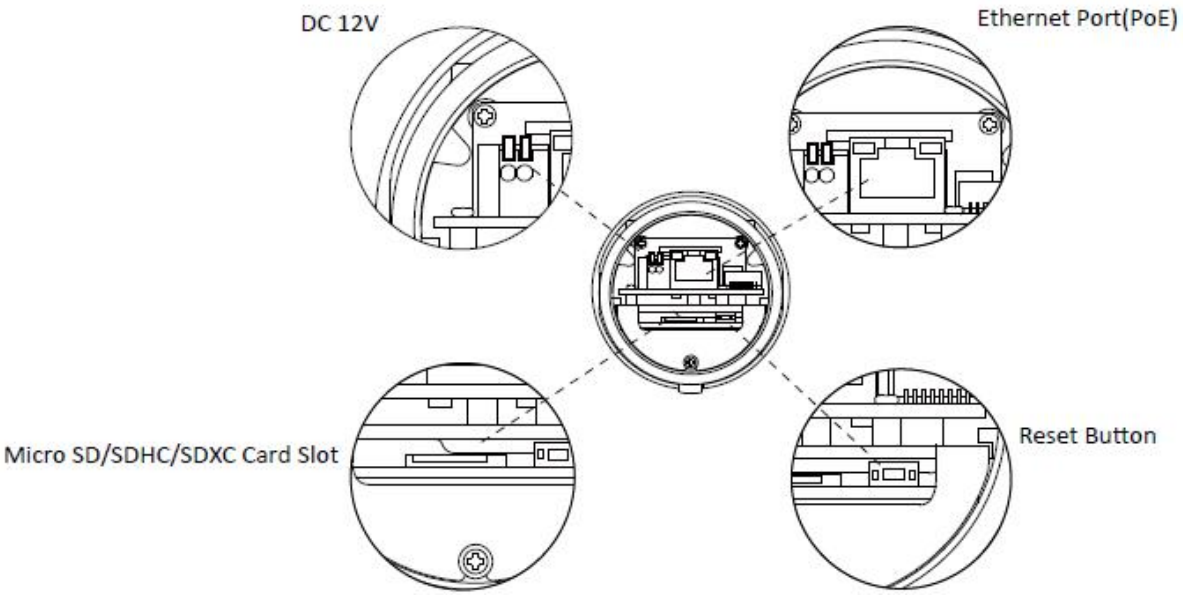


Figure 4-6 Remote Focus&Zoom Mini Bullet Network Camera

Note:

1) DC 12V and PoE are available for power supply;
2) Reset Button: Press “Reset” button for 5 seconds, then the device will be restored to factory default.

4.7 Pro Bullet Network Camera

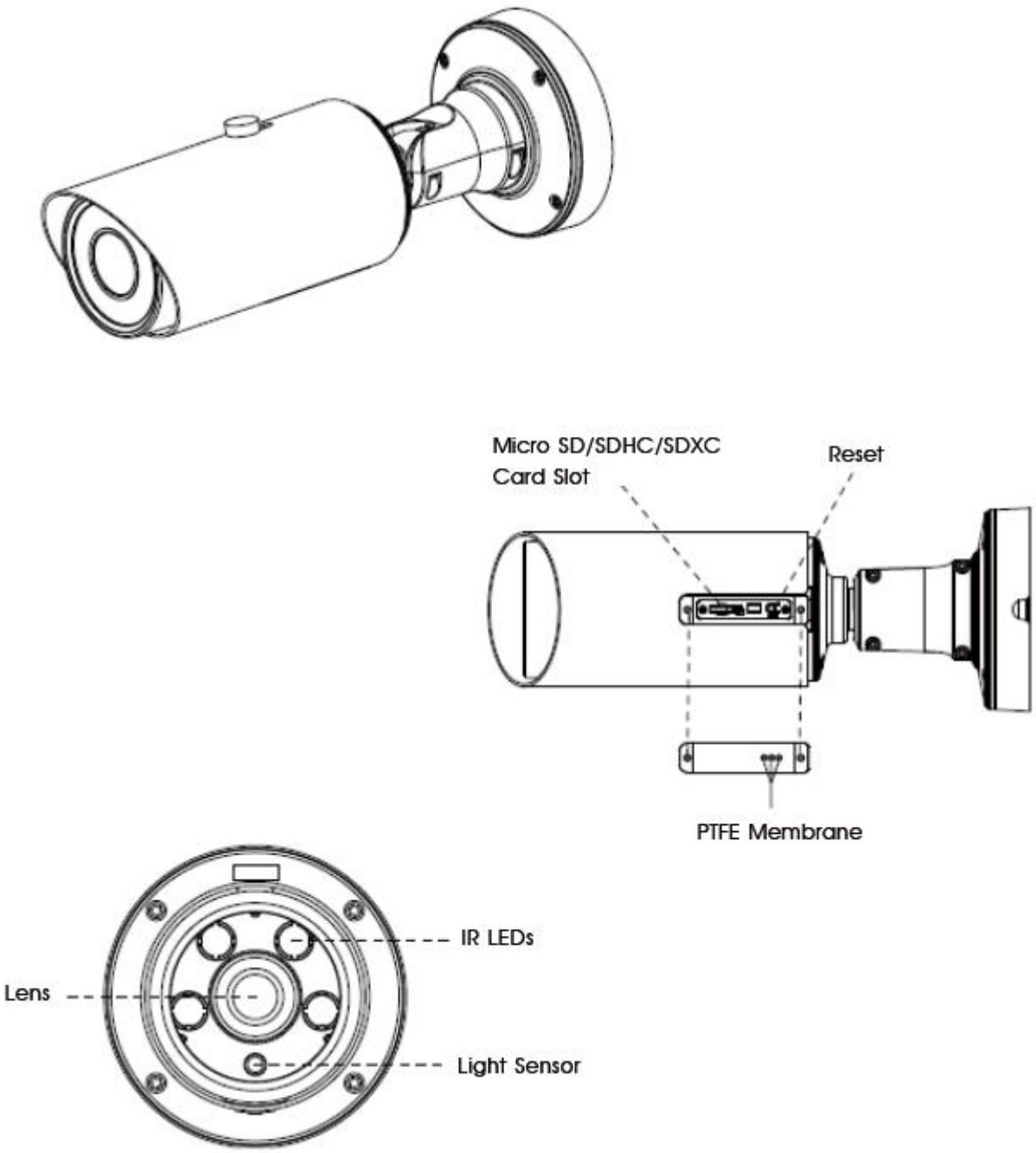


Figure 4-7 Pro Bullet Network Camera

Note:

1) There are two versions for Pro Bullet: the interface's pictures are as below;
2) DC 12V and PoE are available for power supply;
3) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.

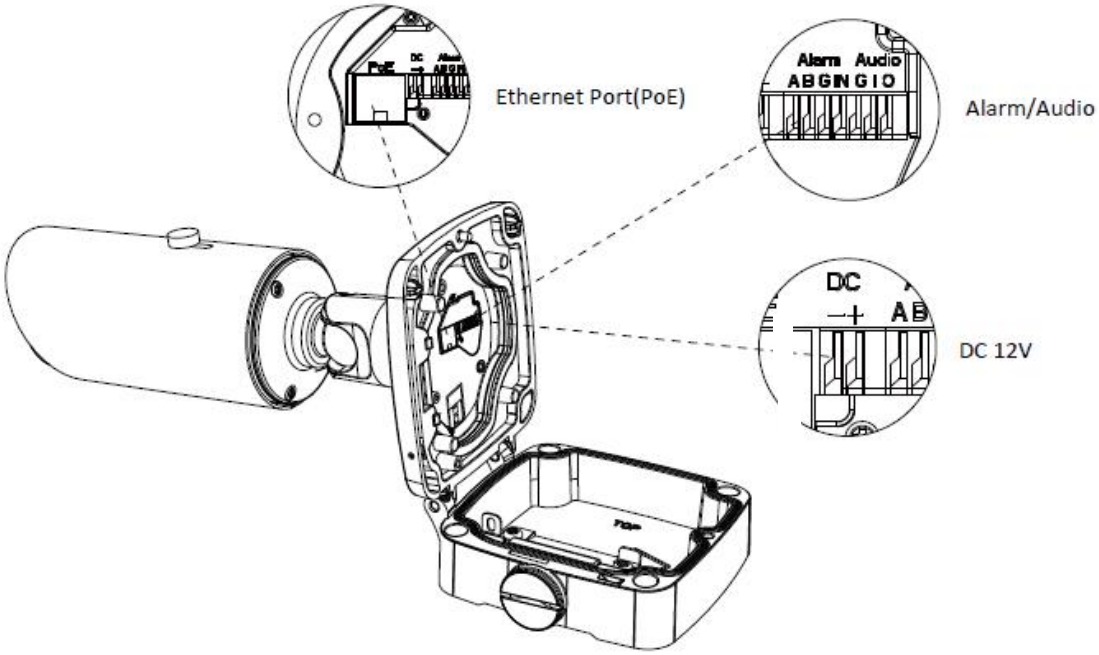


Figure 4-8 Pro Bullet Network Camera(Version A)

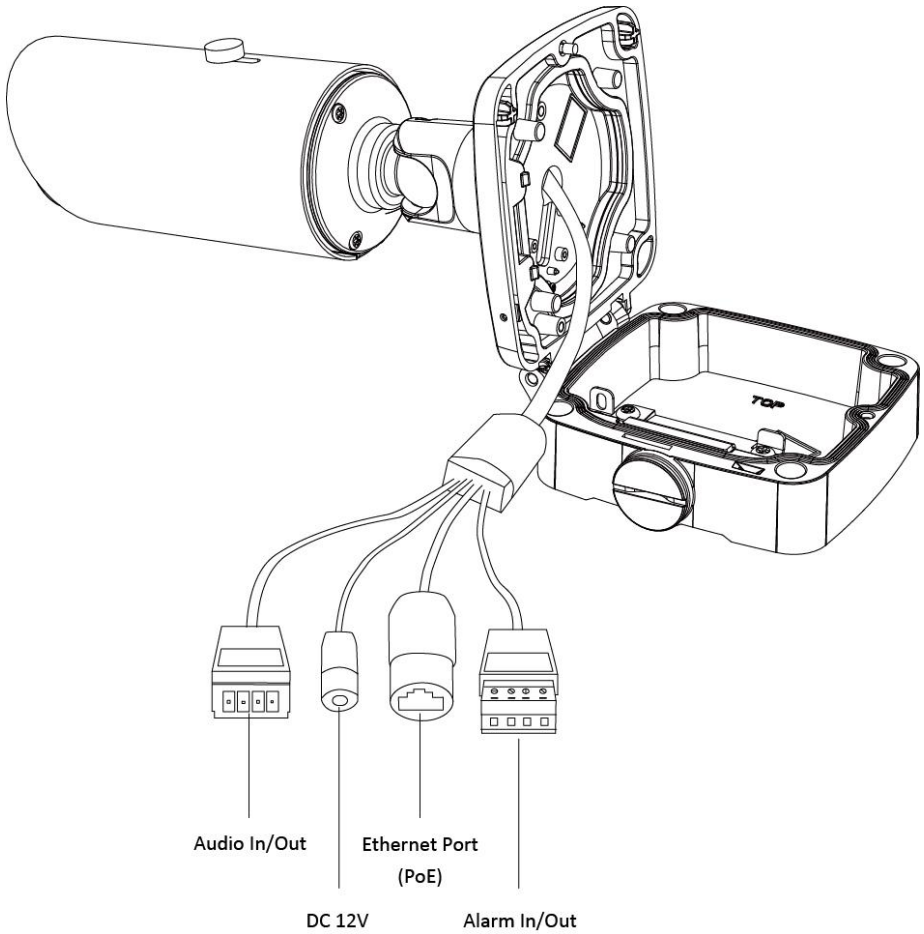
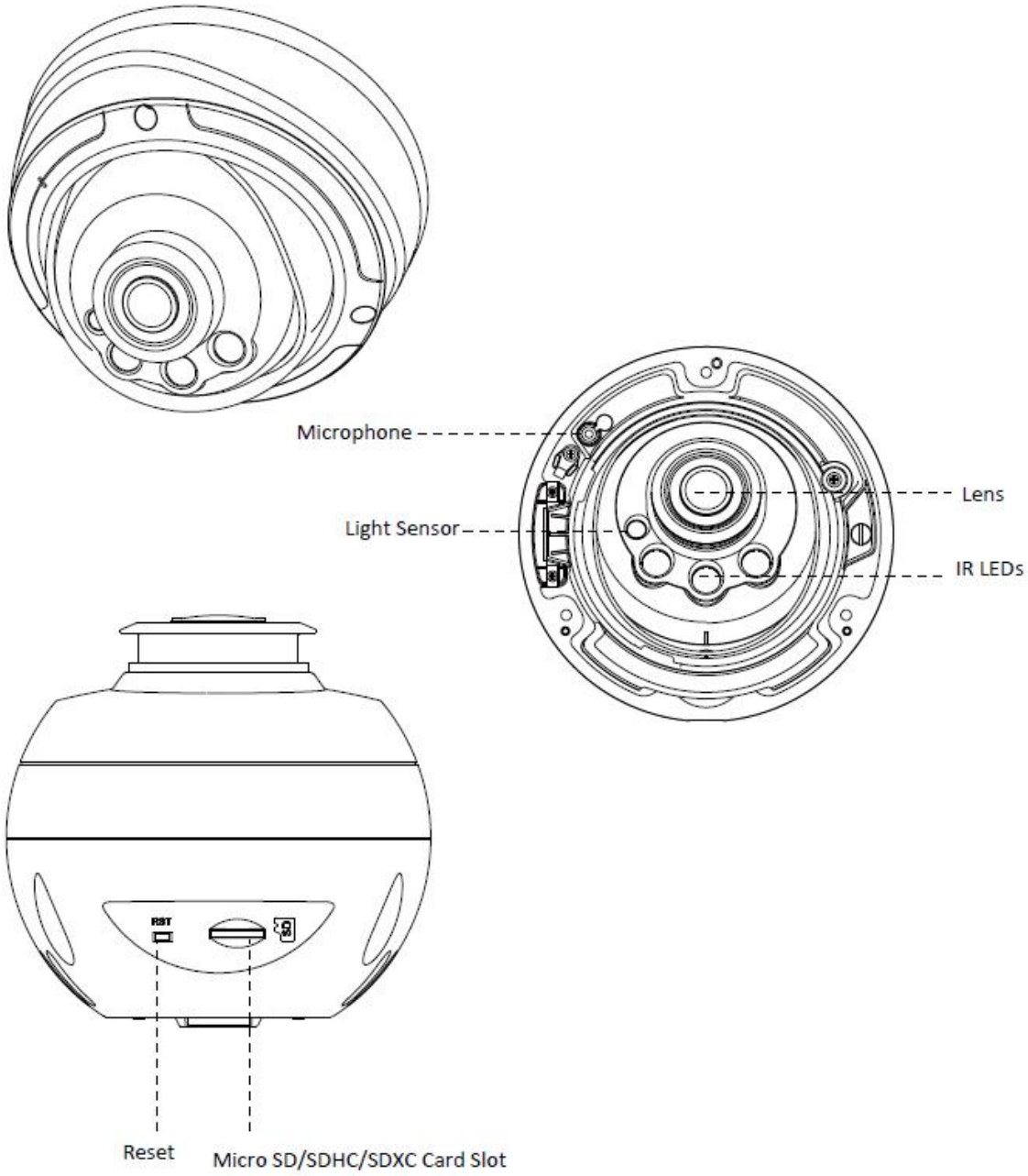


Figure 4-8 Pro Bullet Network Camera(Version B)

4.8 Pro Dome Network Camera



Note:

1) Reset Button: Press “Reset” button for 5 seconds, then the device will be restored to factory default;
2) DC 12V and PoE are available for power supply.

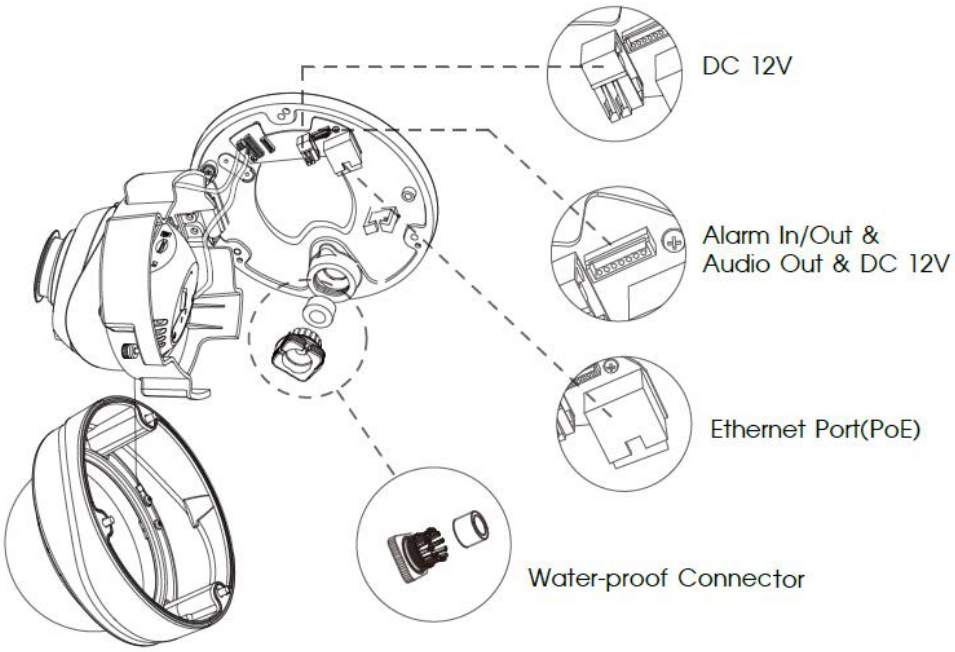


Figure 4-9 Pro Dome Network Camera multiple interface

Here is one equipped cable for multiple interface usage:

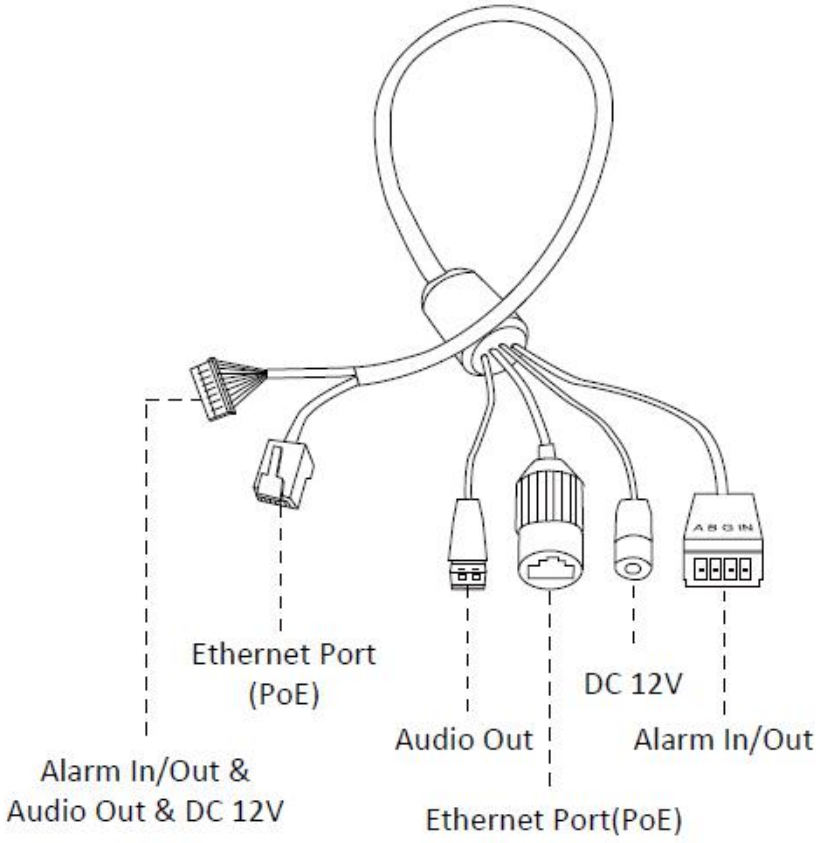


Figure 4-10 Pro Dome Network Camera multiple interface cable

4.9 Mini (PoE) PTZ Bullet Network Camera

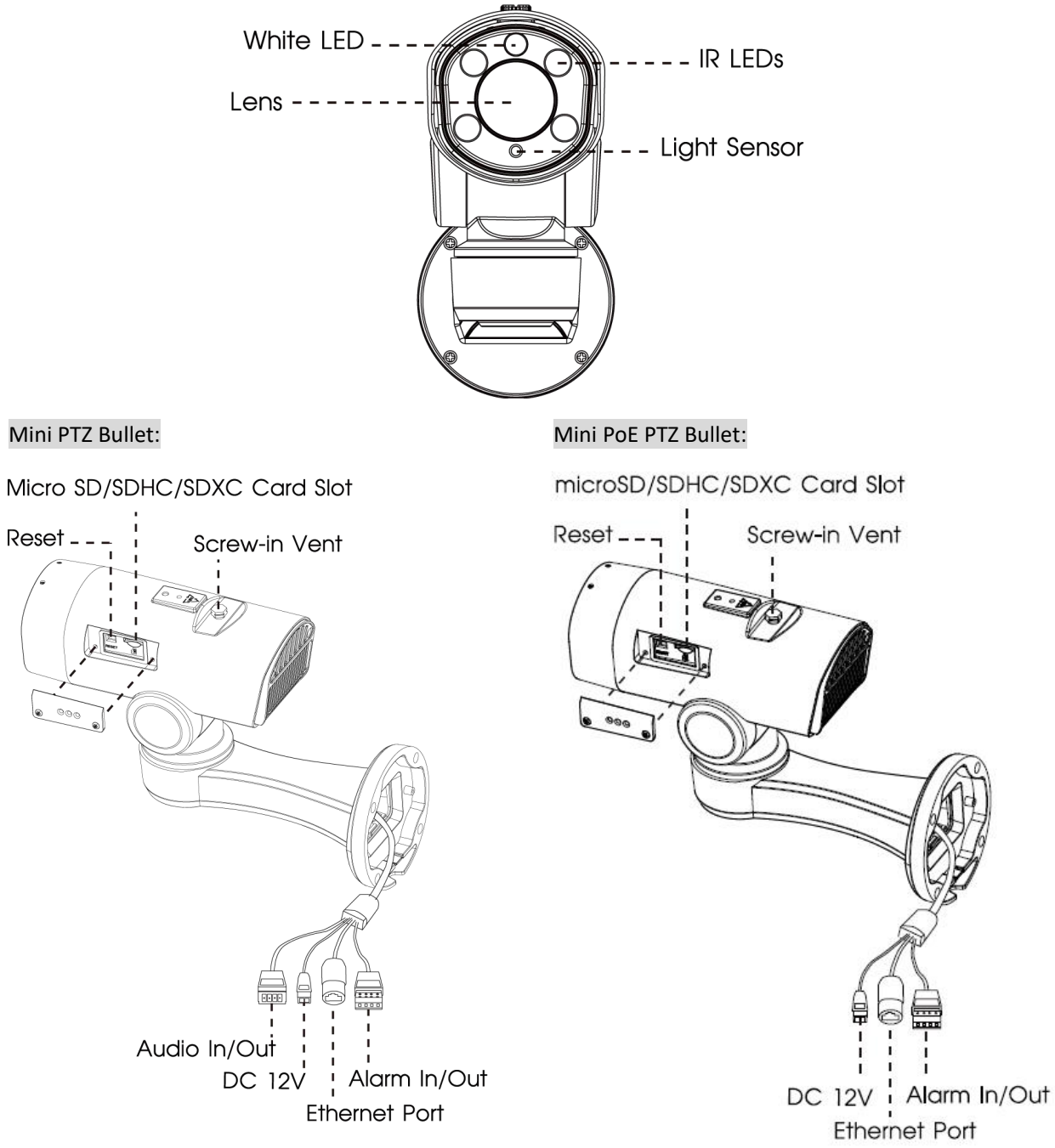


Figure 4-11 Mini (PoE) PTZ Bullet Network Camera

Note:

1) Reset Button: Press “Reset” button for 5 seconds, then the device will be restored to factory default;
2) Only DC 12V is available for Mini PTZ Bullet power supply. DC 12V and PoE (802.3at) are available for Mini PoE PTZ Bullet power supply.

4.10 Speed Dome Network Camera

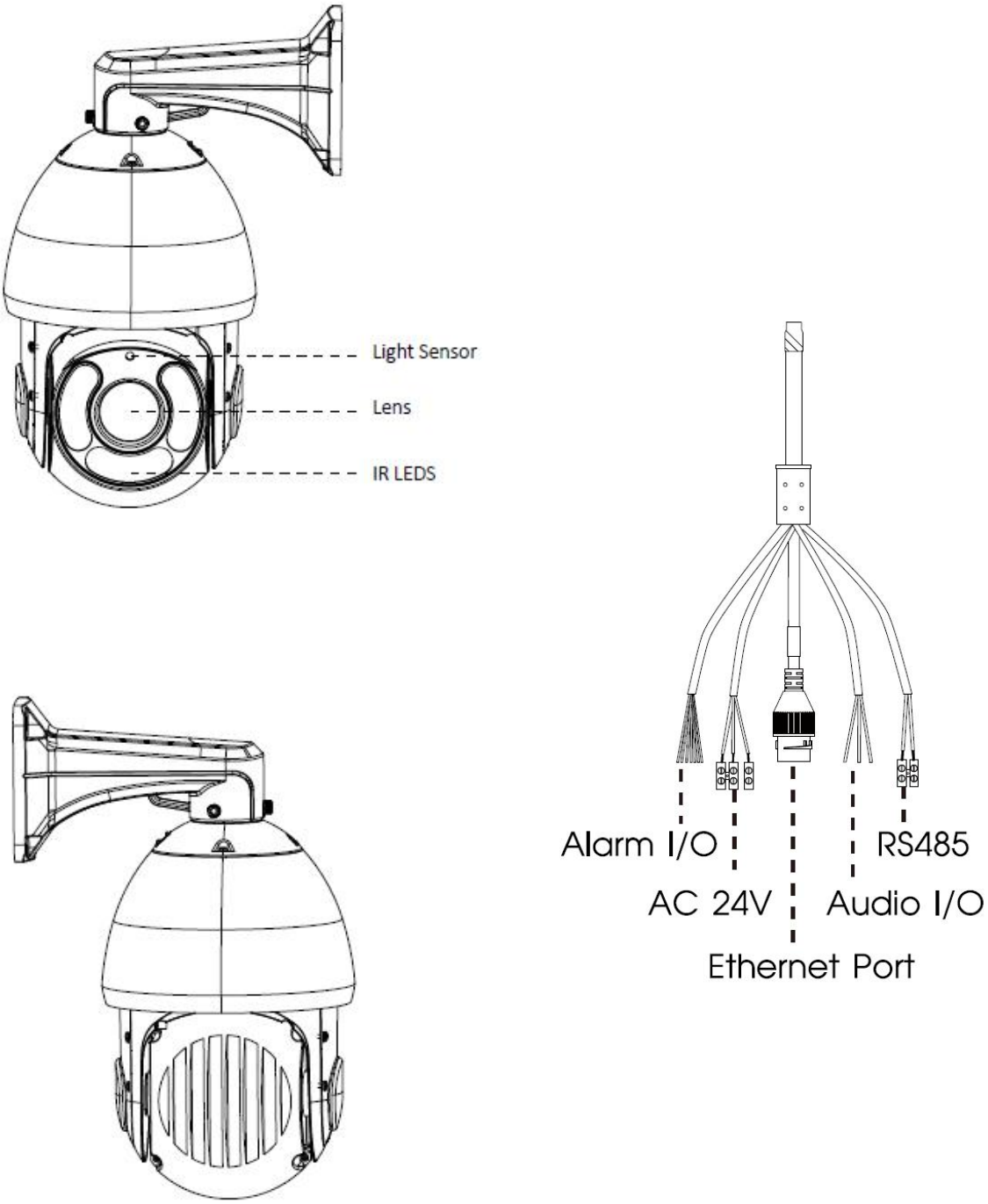


Figure 4-12 Speed Dome Network Camera

Note:

1) Only AC 24V is available for power supply;
2) Built-in SD card slot can be seen after removing the 4 screws and open the front panel.

4.11 IR Fisheye Network Camera

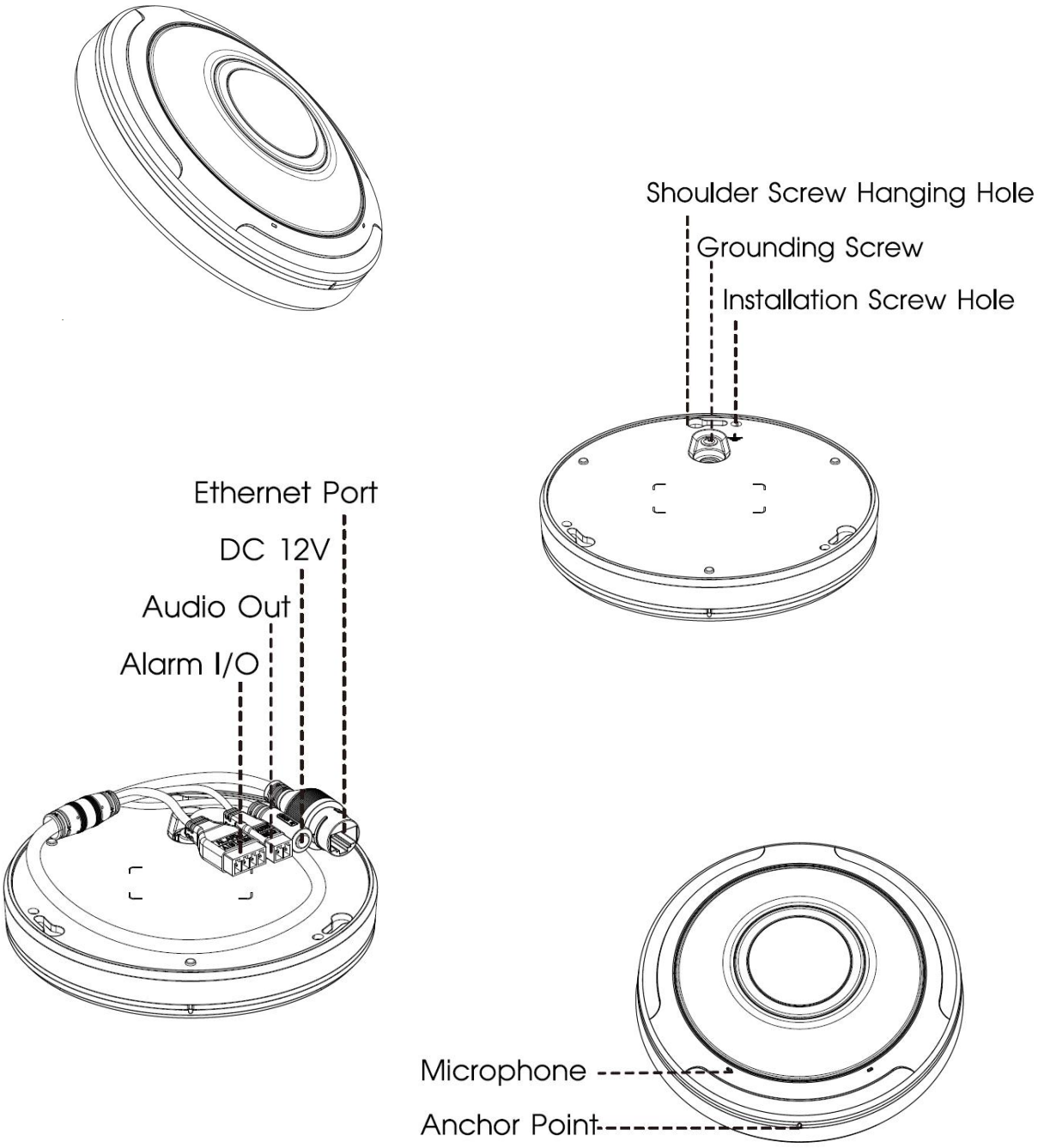


Figure 4-13 IR Fisheye Network Camera

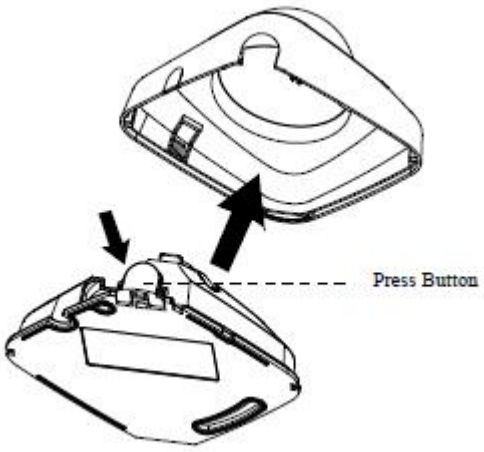
Note:

1) DC 12V and PoE are available for power supply;

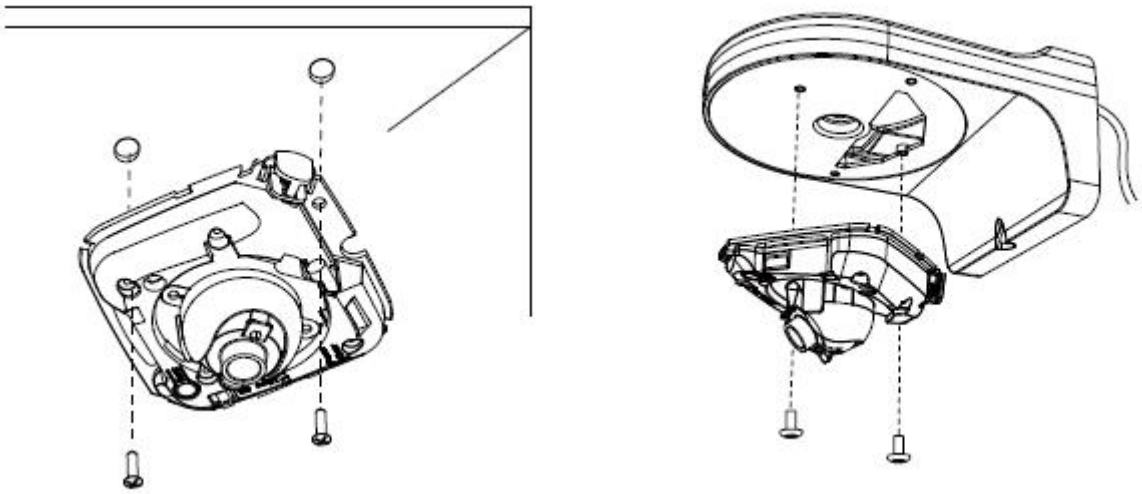
5. Hardware Installation

5.1 Mini Dome Network Camera

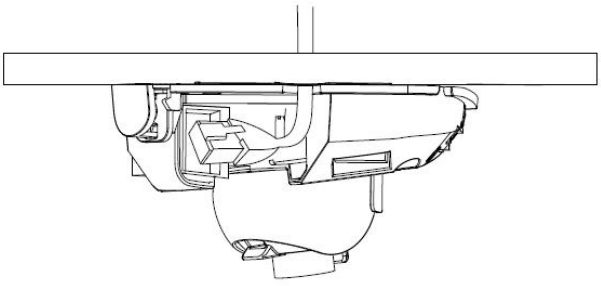
Step1: Remove the dome cover;



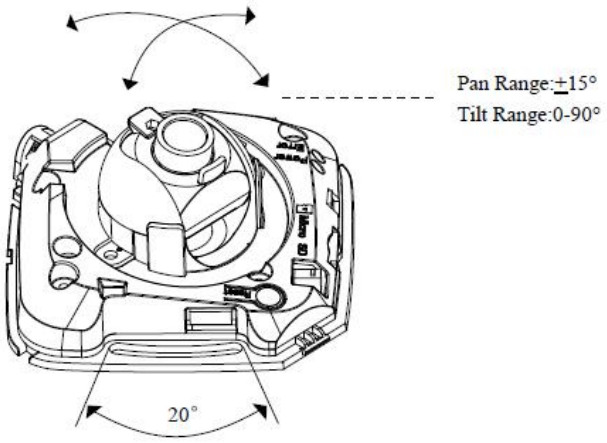
Step2: Secure the screws;



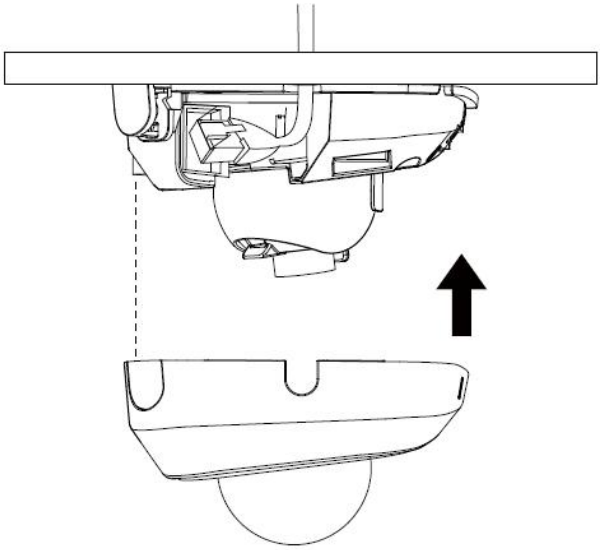
Step3: Connect and route an Ethernet cable through the ceiling or wall;



Step4: Adjust the lens angle and focus;

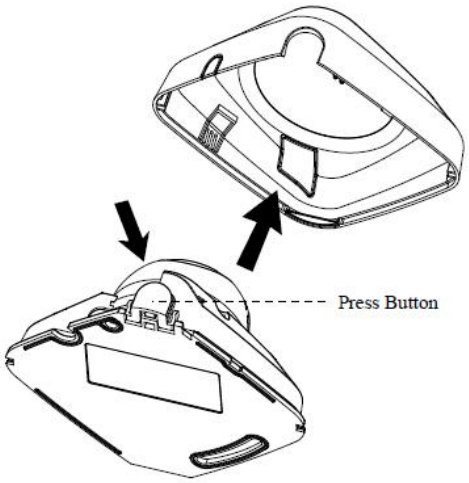


Step5: Attach the dome cover;

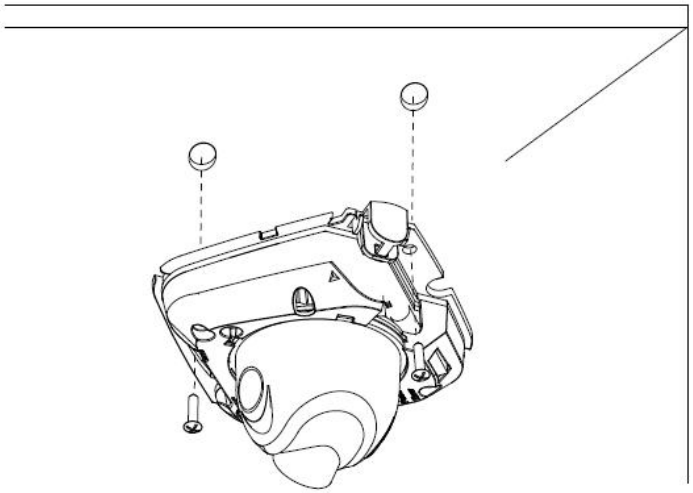


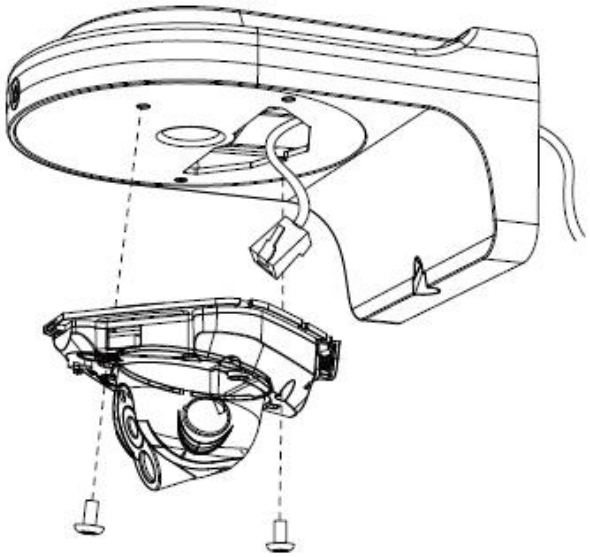
5.2 IR Mini Dome Network Camera

Step1: Remove the dome cover;

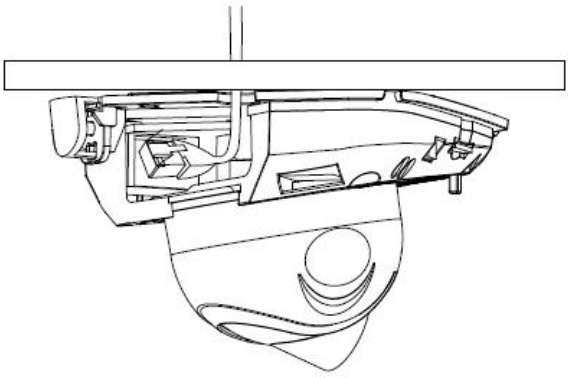


Step2: Secure the screws to wall or bracket, please notice to get the cable through the bracket firstly;

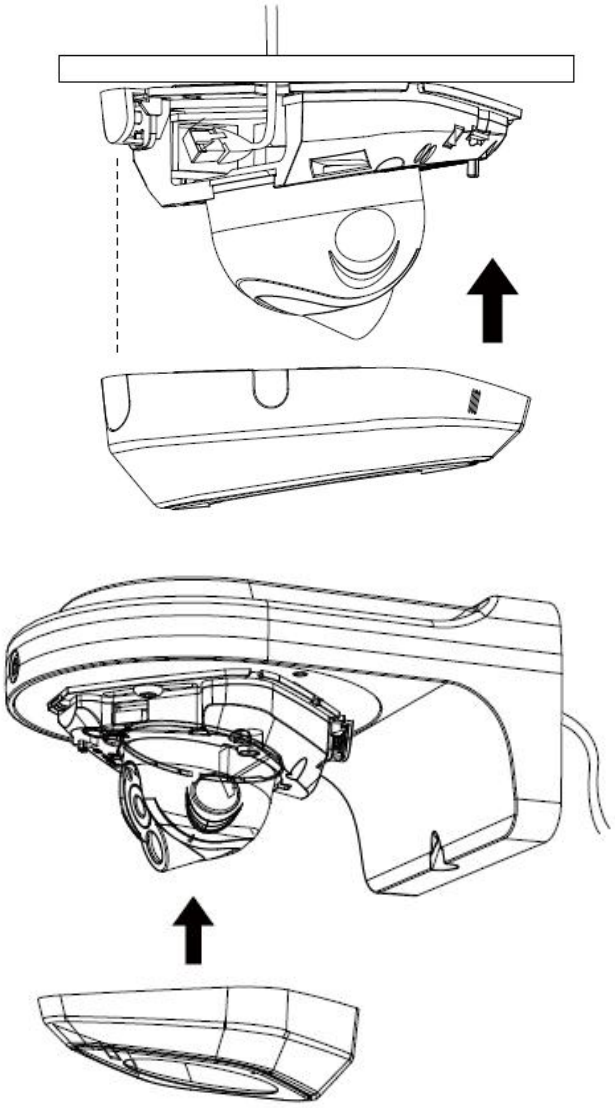




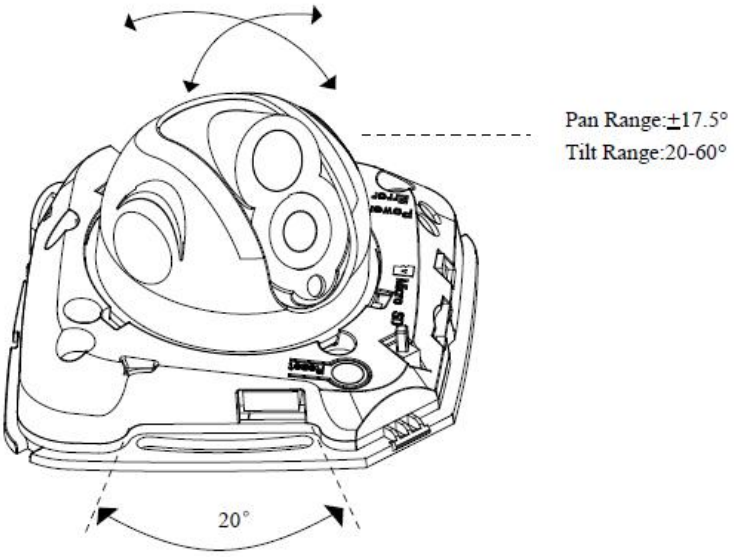
Step3: Connect and route an Ethernet cable;



Step4: Attach the dome cover;

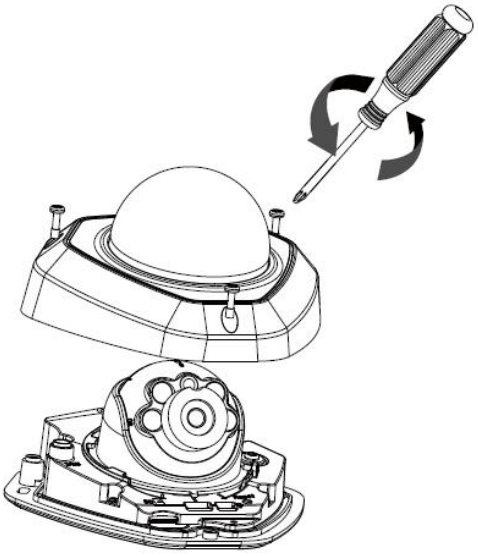


Step5: Adjust the lens angle and focus, then attach the dome cover.

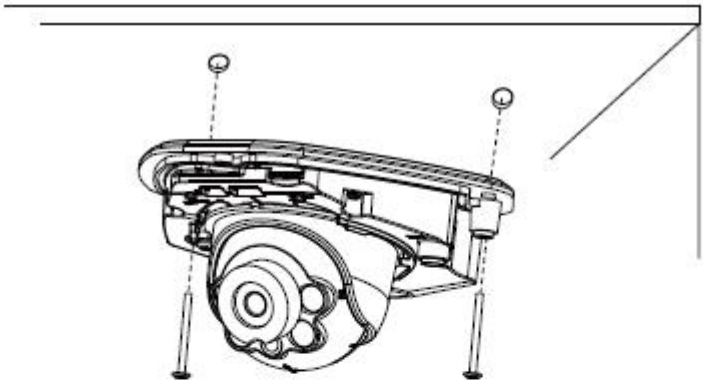


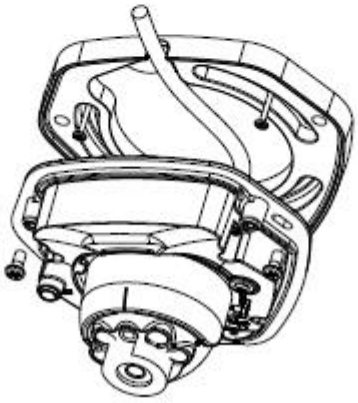
5.3 Vandal-proof Mini Dome Network Camera

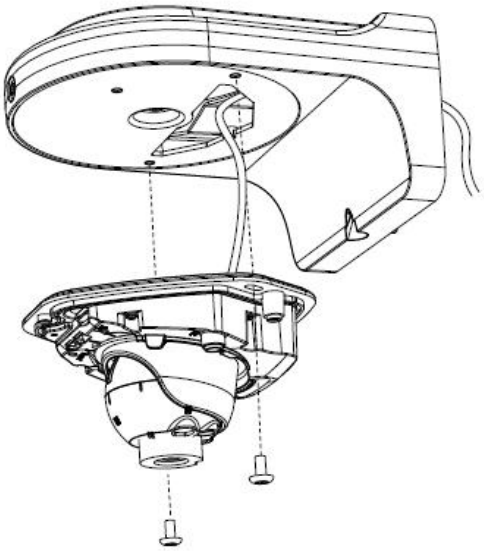
Step1: Remove the dome cover;



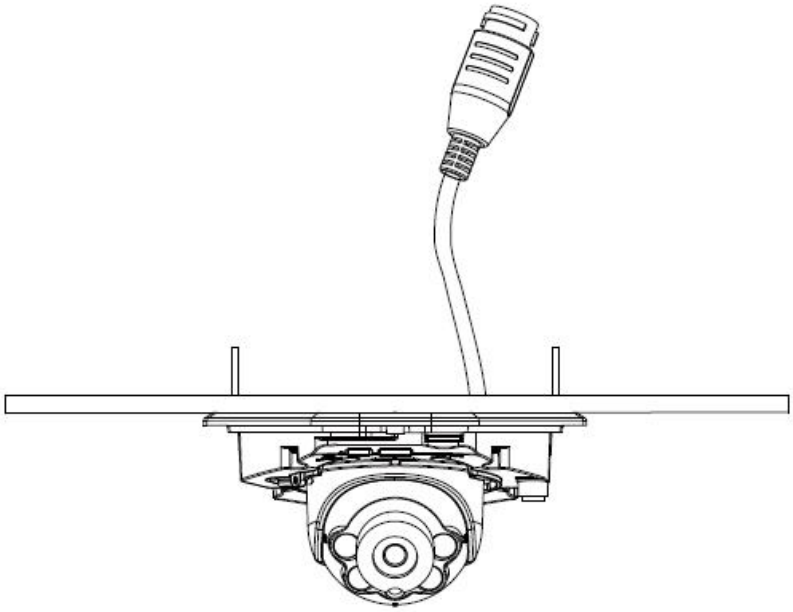
Step2: Secure the screws to the wall or bracket;



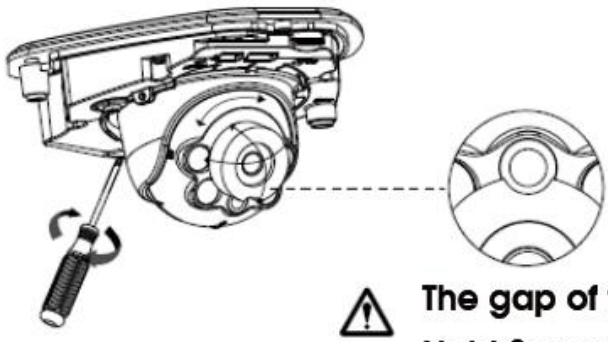




Step3: Connect and route an Ethernet cable;

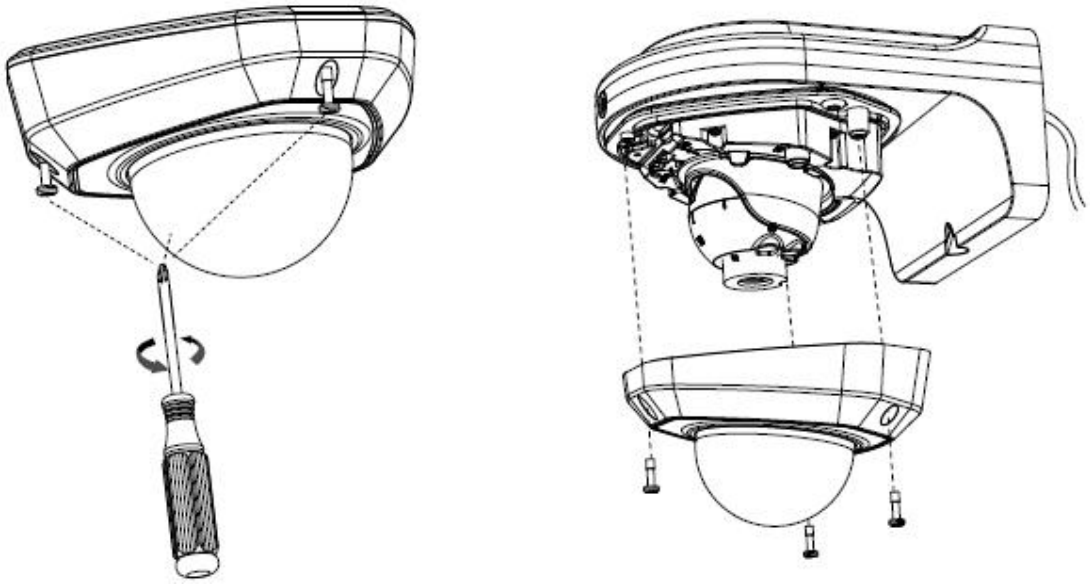


Step4: Loosen the screw and adjust the lens angle and focus then screw it tight again;



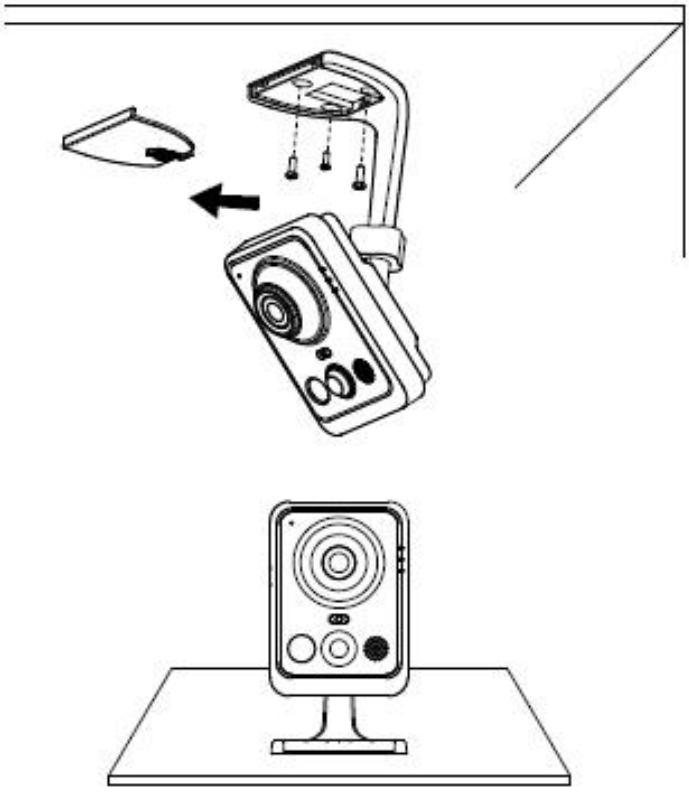
The gap of the foam shall be aligned to Light Sensor as the picuture shows.

Step5: Attach the dome cover;

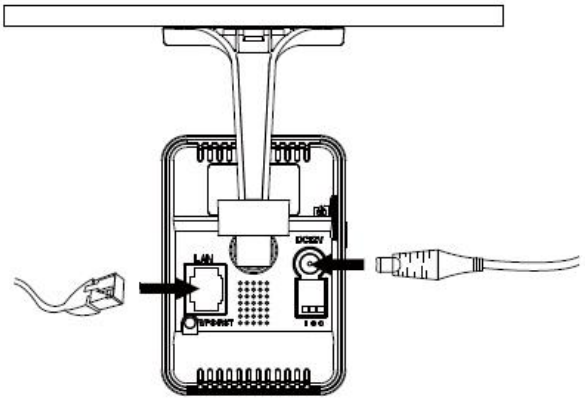


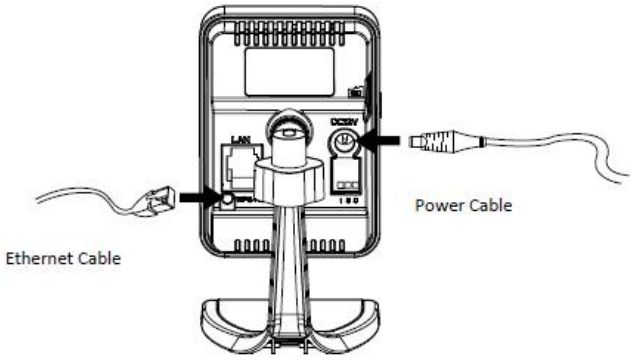
5.4 Wi-Fi Mini Cube Network Camera

Step1: Mount the cube camera to the ceiling or wall, or place the cube camera horizontally;

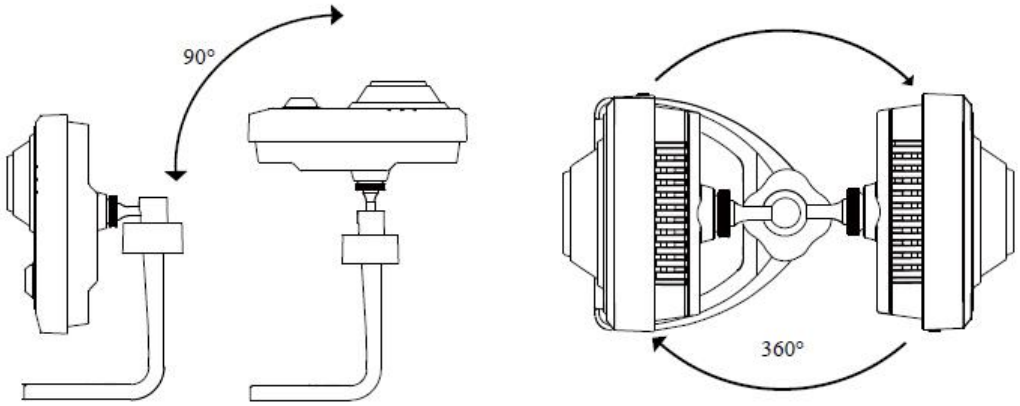


Step2: Connect the power adapter and Ethernet cable;





Step3: Adjust the shooting direction;

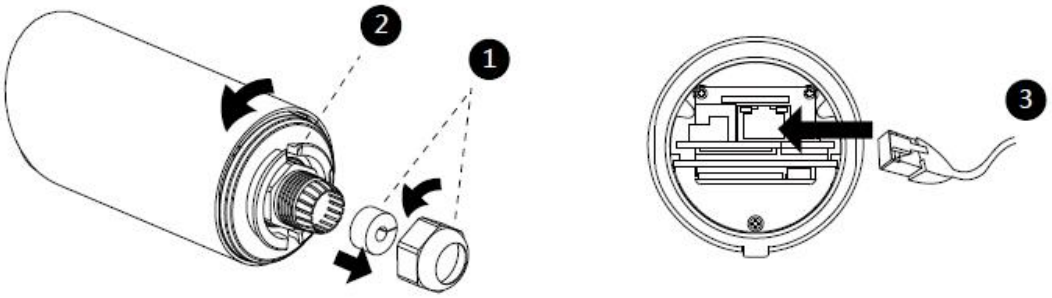


5.5 Mini Bullet Network Camera

Step1: Loosen the waterproof connector, and then remove the rubber seal and the waterproof connector;

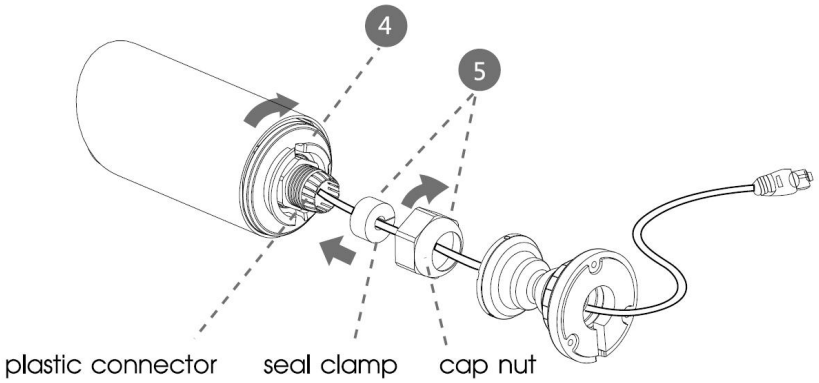
Step2: Loosen and open the rear cover, then install a microSD/SDHC/SDXC card;

Step3: Pass the Ethernet cable through the center of the mount bracket, cap nut, rubber seal and rear cover orderly for connection;

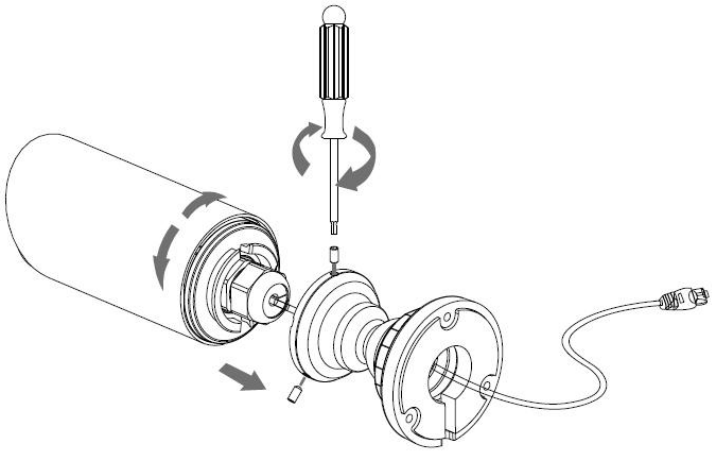


Step4: Install and tighten the rear cover;

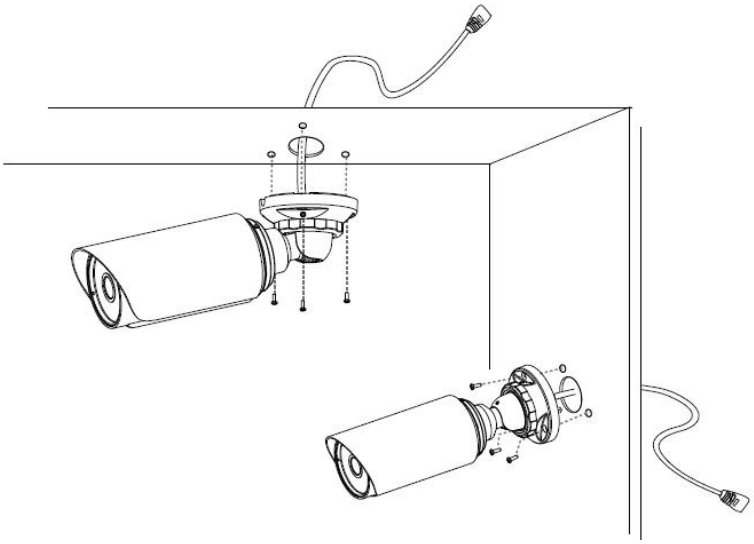
Step5: Tighten the plastic connector, seal clamp, and cap nut of the waterproof connector;



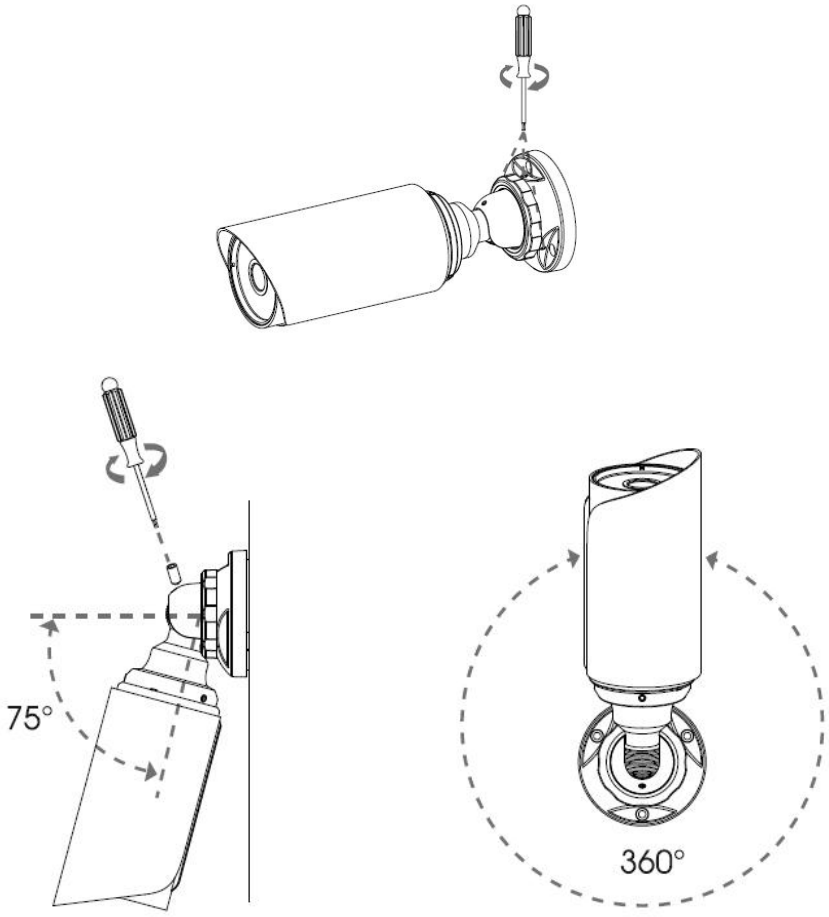
Step6: Put the bracket and camera together, rotate the bracket and fasten the bracket using screws;



Step7: Mount the camera to the ceiling or wall;

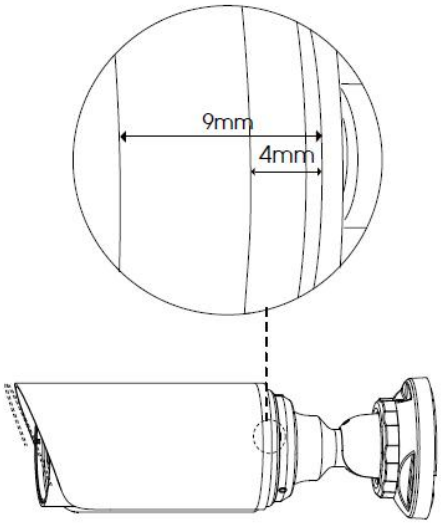


Step8: Adjust the shooting direction;



Note:

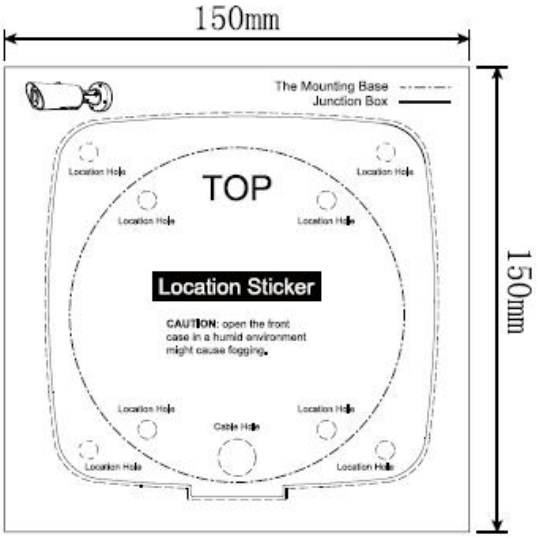
1) The upper cover of the Mini Bullet Network Camera could only be moved forward for 5mm at most to ensure better field of view;
2) It will be much easier to remove the rubber seal with a screwdriver when tearing down the camera.



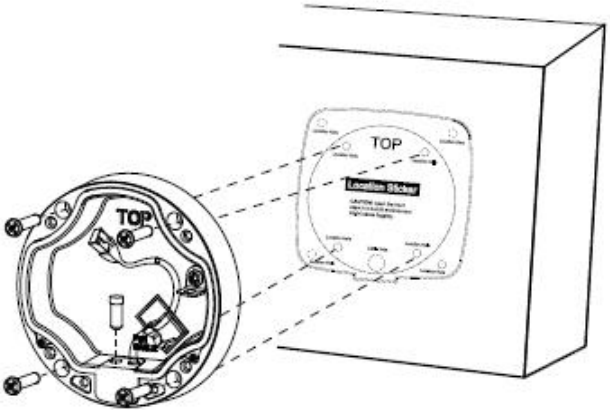
5.6 Pro Bullet Network Camera

Default Version Junction Box:

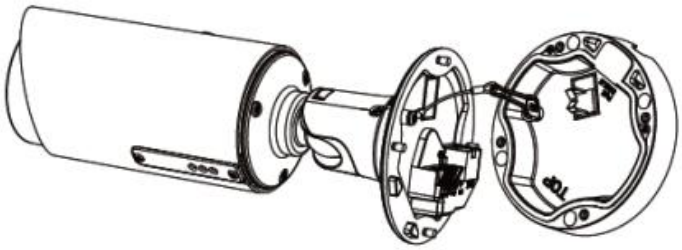
Step1: Fix a sticker on the position where the camera is intended to be installed;



Step2: Take out the black rubber plug on the base, put the cables you need through the base and rubber plug (for more convenient and easier setup, the cables can get through from the side opening of rubber plug); Fasten the base to the sticker;

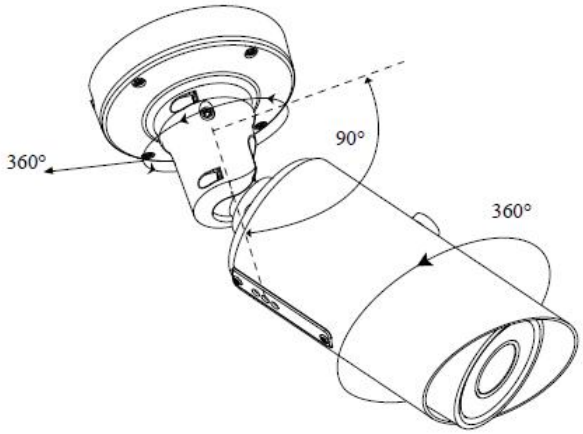


Step3: Hang the bullet via the hook on the base;



Step4: Adjust the cables to a suitable length and place, then connect the cables to the corresponding interfaces. Plug the black rubber plug back to the cable entry hole to prevent the ingress of dust or water. Buckle the cables by the black clamp on the base in case that the cables turning twisted and mussy. Whenever you don't need to use the holes on the rubber plug, making sure that the small black plug is tightly stuffed up;

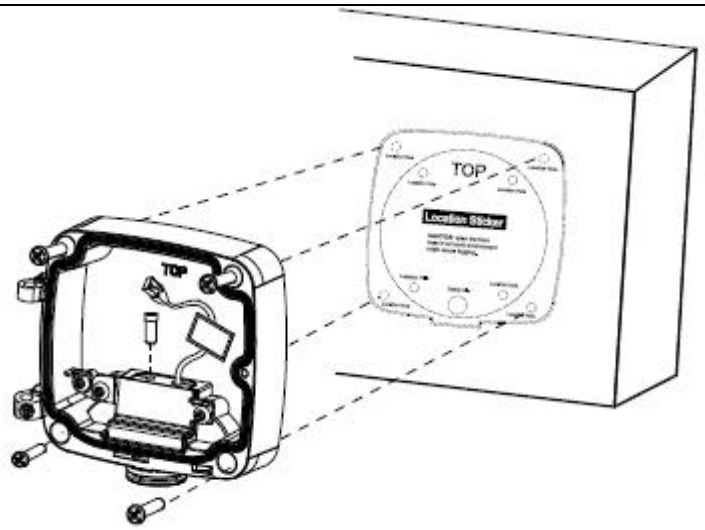
Step5: Install the Pro Bullet to the Junction Box, and pay attention to the two "Tops". The "Top" on the Bullet shall be aligned to the "Top" on the Junction Box. At last, fix the screws. Then adjust the shooting direction;



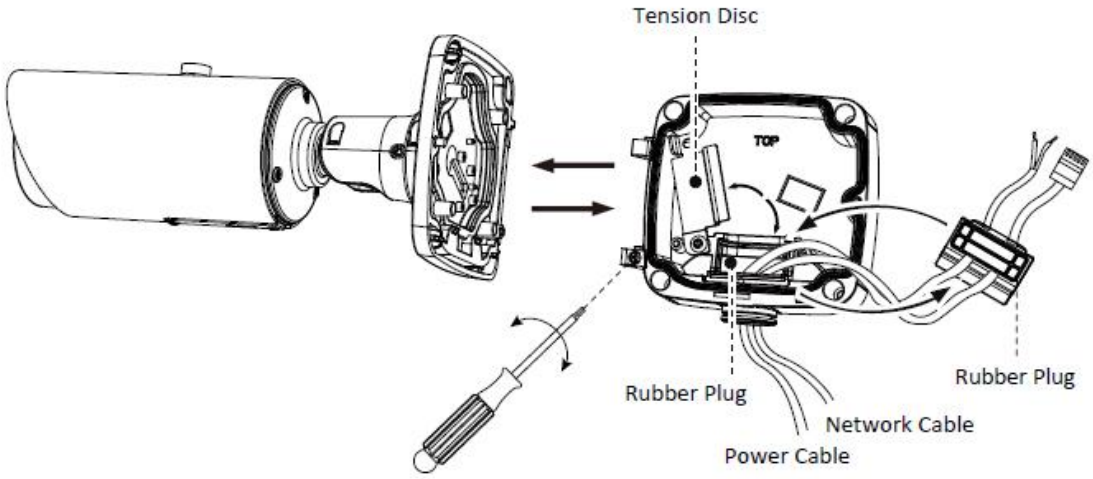
Advanced Junction Box:

Step1: Fix a sticker on the position where the camera is intended to be installed;

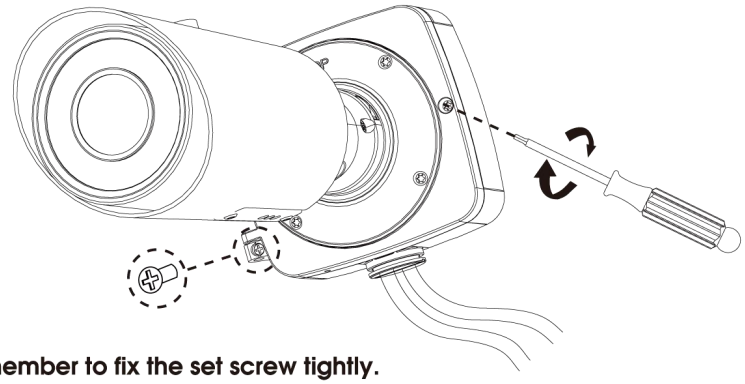
Step2: Unbolt the screws on the junction part between the Front Cover and Rear Cover and remove the Front Cover(Making sure that the Front Cover is removed from the direction that roughly perpendicular to the Rear Cover). Remove the tension disc on the rear cover, and cut an opening on the rubber plug and get cables through the opening then fasten the rear cover to the sticker;



Step3: Install the camera to front cover by using 4 torx screws and then reinstall the front cover from the angle near 90° to the rear cover. Pay attention to the two “Tops”. The “Top” on the bullet shall be aligned to the “Top” on the Junction Box;



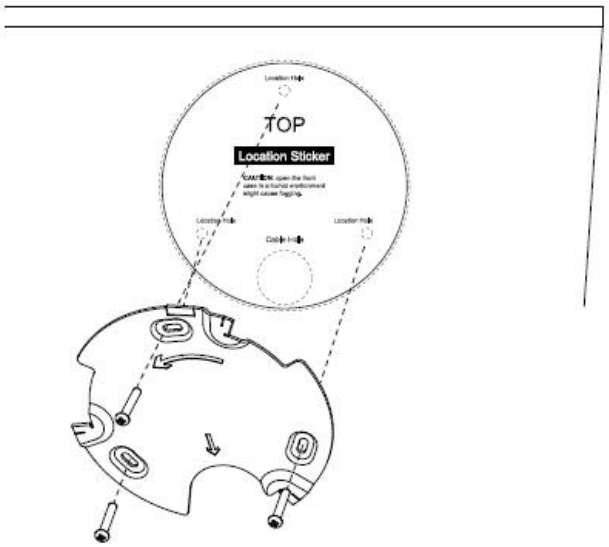
Step4: Adjust the cable length, and connect the cables to corresponding interfaces and fix the tension disc. Close the junction box and fix screws at last. Please remember to plug the small rubber plug whenever the holes on the rubber plug is not in use.

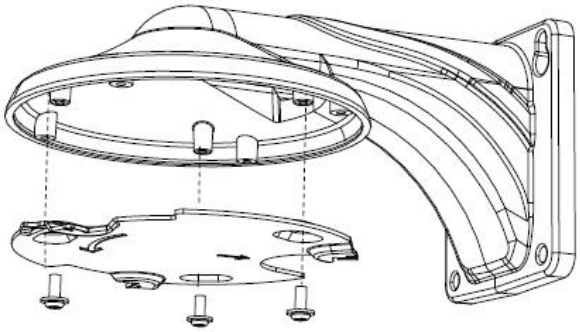


Remember to fix the set screw tightly.

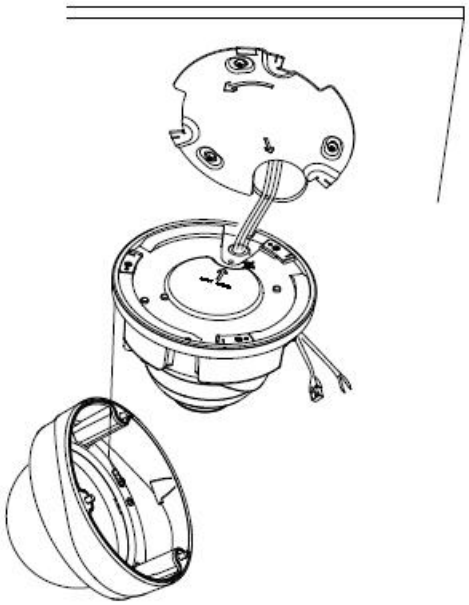
5.7 Pro Dome Network Camera

Step1: Fix a sticker on the position where the camera is intended to be installed. Install the supplied bracket on the ceiling or wall, secure the screws;

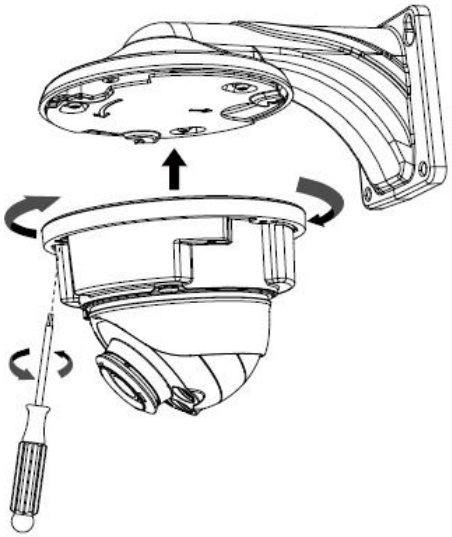


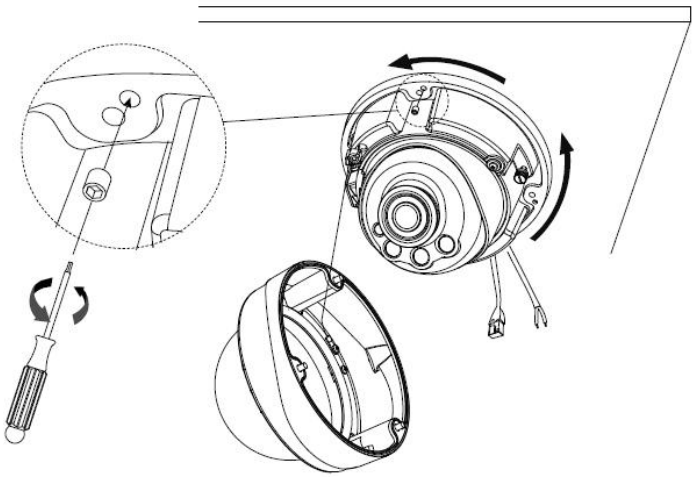


Step2: Unbolt the screws on the Dome and remove the Dome Cover, then open the 'Clam-shell'. Remove the waterproof connector of the cable entry hole, put the cables through the cables entry hole, and place the waterproof connector aside till step4;

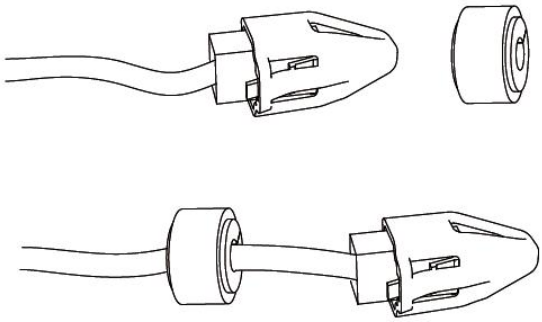


Step3: Rotate the camera unit according to the direction shown in the picture, and then fix the camera to the bracket with the setscrew;

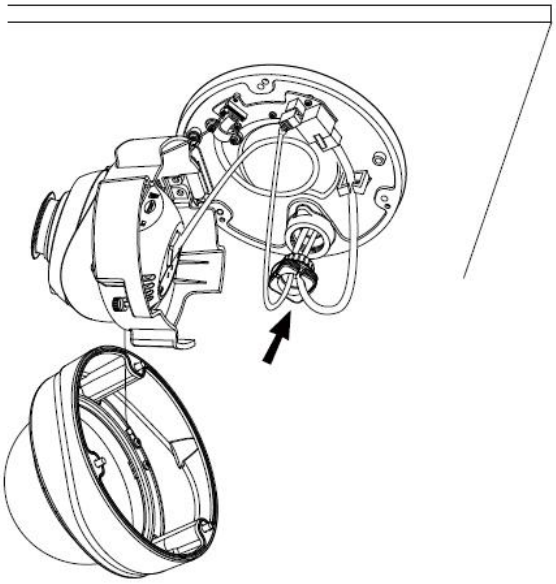




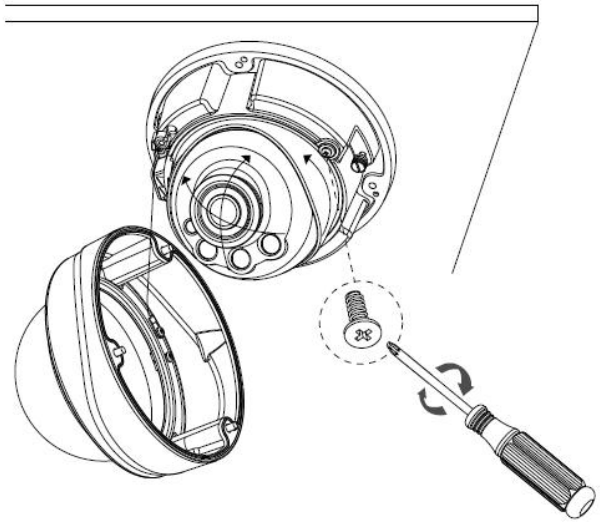
Step4: Put the cables through the white rubber ring and black rubber plug successively, place the piercing cap on the Ethernet Connector and put the cables through white rubber ring. Take off the piercing cap and put the cables through the back rubber bung (for more convenient and easier setup, the cables shall be put hard through the White Rubber Ring from the large opening to the small opening).



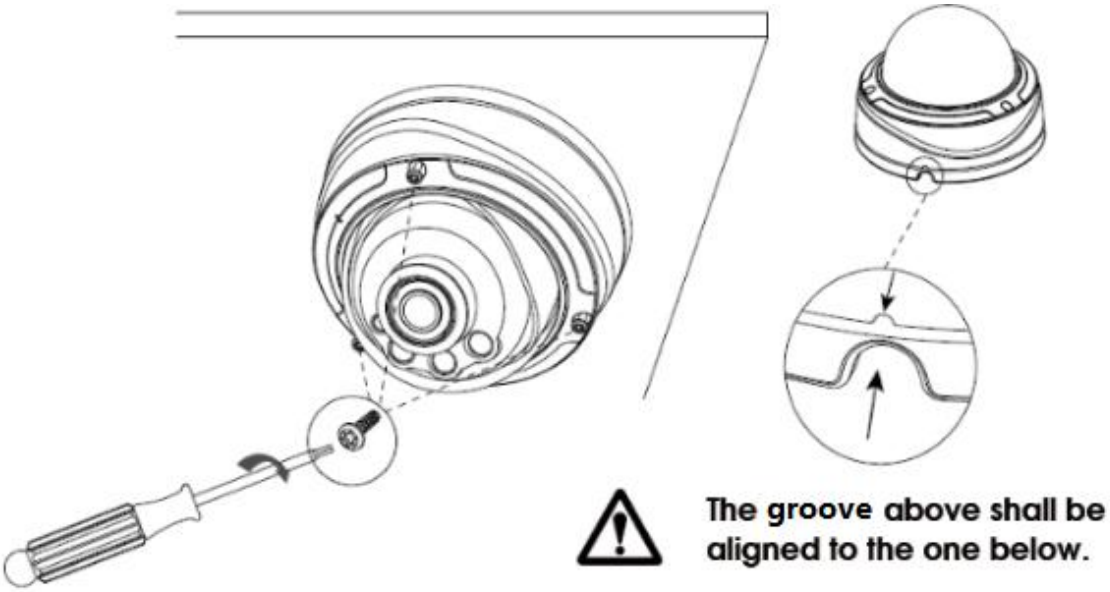
Step5: Recombine the black rubber bung and white rubber ring as a unit, then plug them into the cable entry hole. Connect the cables to the corresponding interfaces, and buckle the cables by the white clamp on the base in case that the cables turning twisted and mussy;

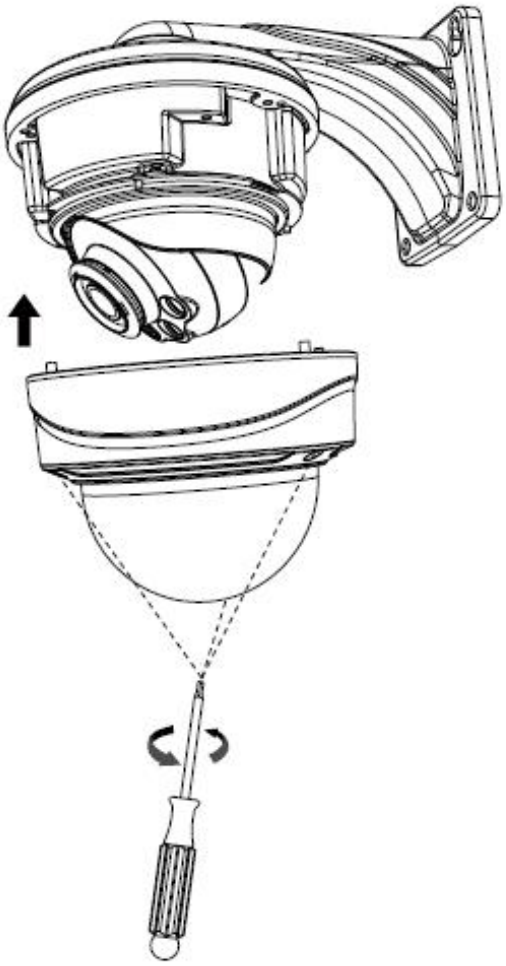


Step5: Close up the “Clam-shell”, adjust the camera lens to the desired direction. Tighten the setscrew to fix the lens;



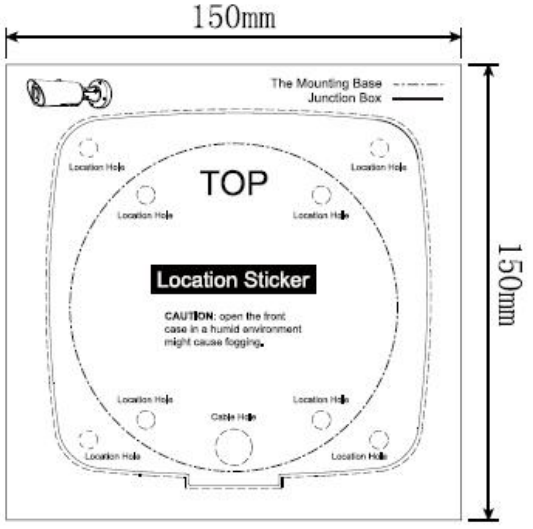
Step6: Attach the dome cover and make sure that the groove above is aligned to the one below as the picture shows, then fix the camera tightly ;





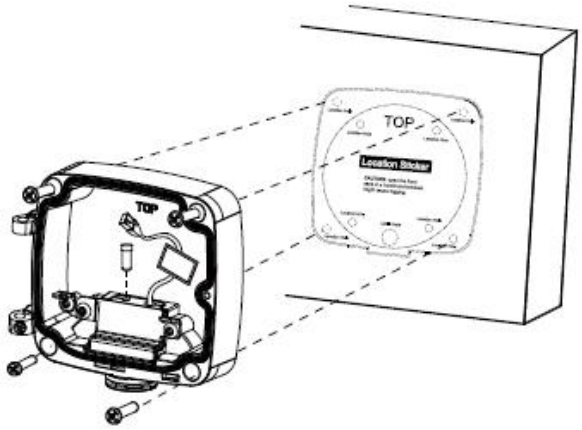
5.8 Mini (PoE) PTZ Bullet Network Camera

Step1: Fix a sticker in the position where the camera is intended to be installed;

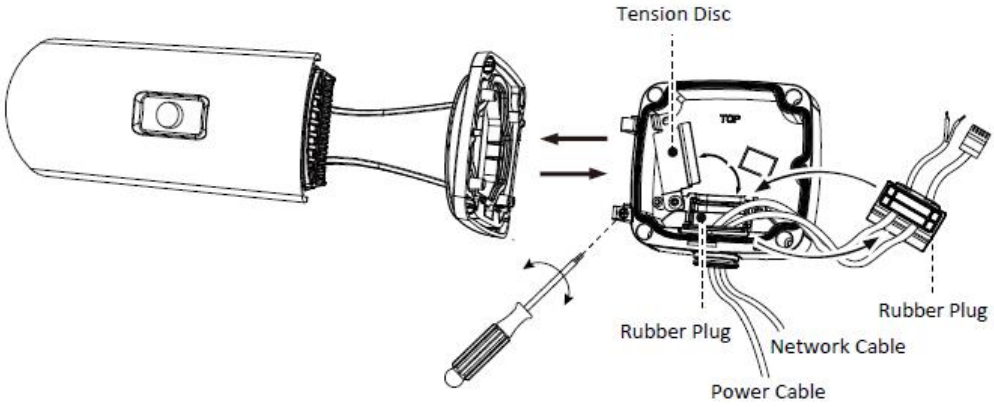


Step2: Unbolt the screws on the junction part between the Front Cover and Rear Cover and

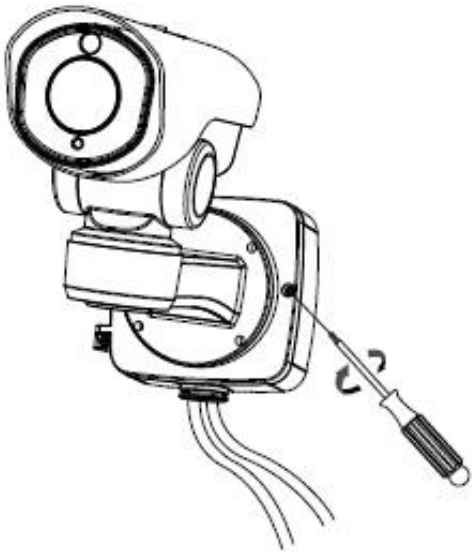
remove the Front Cover. Remove the tension disc on the rear cover, and cut an opening on the rubber plug and get cables through the opening then fasten the rear cover to the sticker;



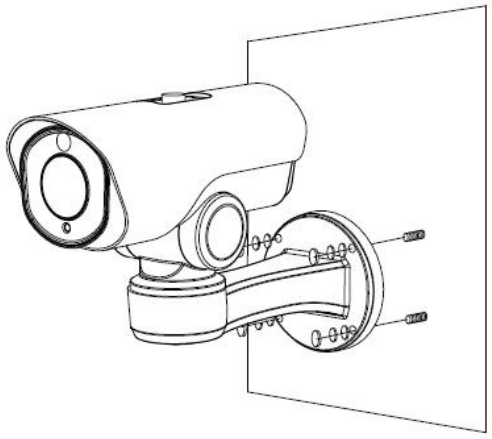
Step3: Install the camera to front cover by using 4 torx screws and then reinstall the front cover from the angle near 90° to the rear cover;



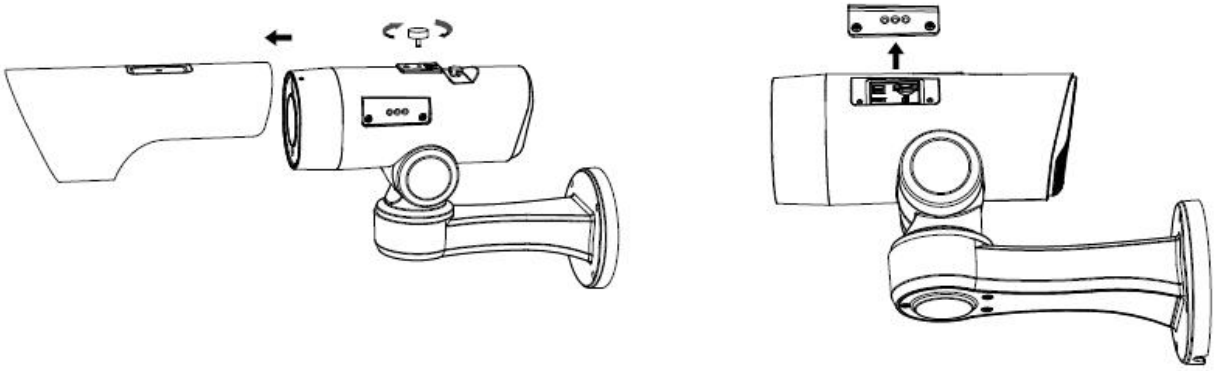
Step4: Adjust the cable length, and connect the cables to corresponding interfaces and fix the tension disc. Close the junction box and fix screws at last. Please remember to plug the small rubber plug whenever the holes on the rubber plug is not in use;



Step5: Fix the screws to the installed wall if you don't use junction box;



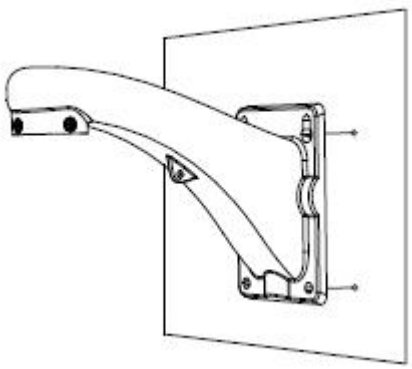
Step6: If you need to use the SD card, please remove the screw of the top cover and pull out the cover, then loosen the screws to get access to the SD card slot. After inserting SD card, fix the screws again.



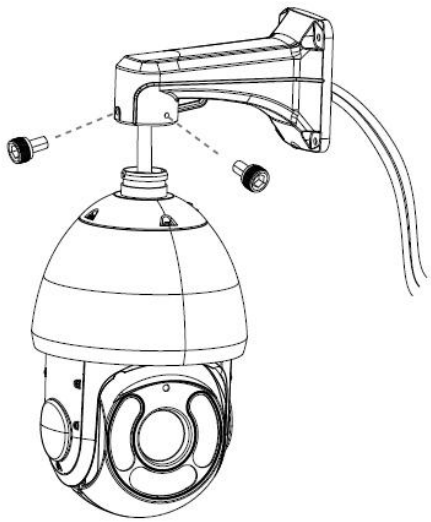
5.9 Speed Dome Network Camera

Step1: Check the wall condition, ensure that there is sufficient strength to avoid flaking, the wall should be able to bear the weight eight times larger than the camera's;

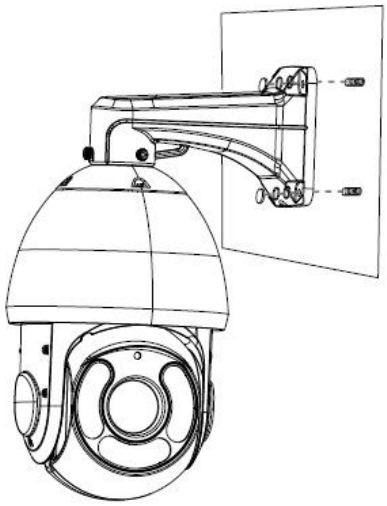
Step2: Use the wall hanging holder to mark the holes. Drill 4 holes on the wall;



Step3: Put the cables through the holder, match the holder with the camera body screw holes and secure them;

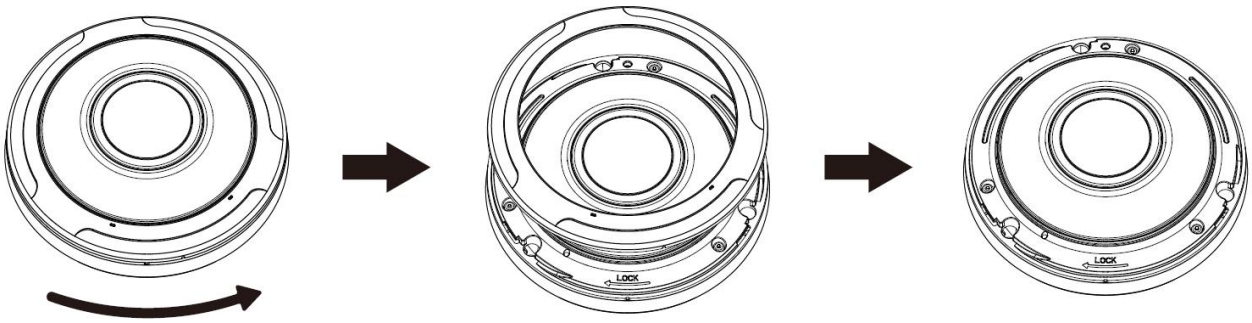


Step4:The camera body has been installed to the holder, match the holder to the holes on the wall and secure the screws.

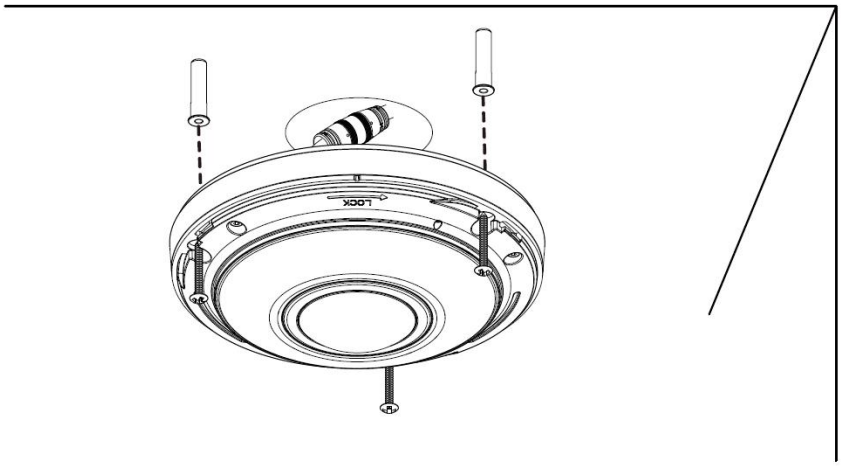


5.10 IR Fisheye Network Camera

Step1: Hold the camera and turn the lid anticlockwise, then take off the lid;

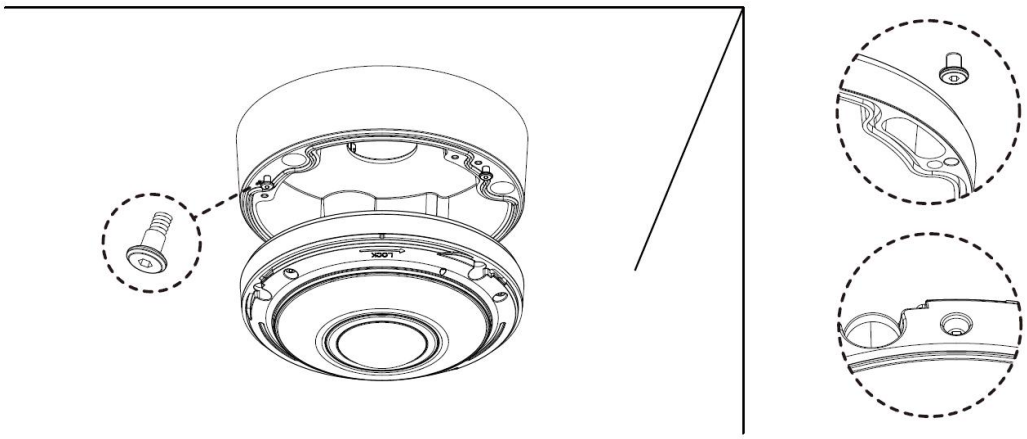


Step2: Fix the camera on the ceiling using the setscrews;

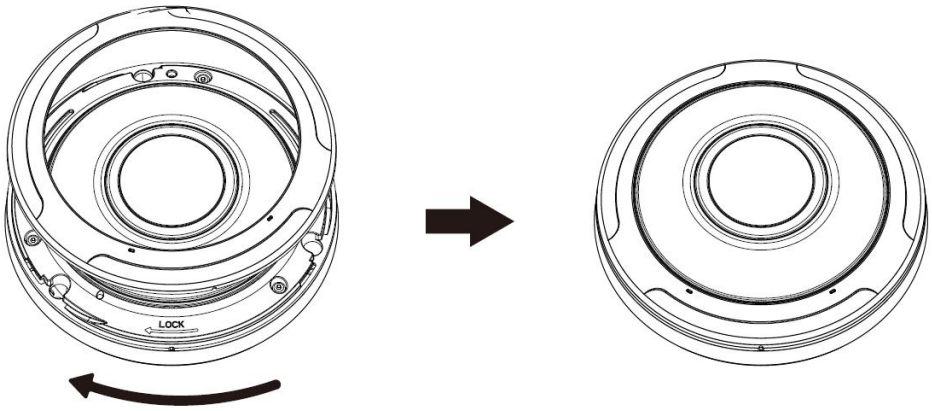


Or install it with a bracket.

Fix a bracket in the position where you want to install your camera, then loosely install the shoulder screws on the bracket. Connect an Ethernet cable. Rotate the camera unit on the bracket while aligning the screw holes. Then tighten the shoulder screws to fix the camera;

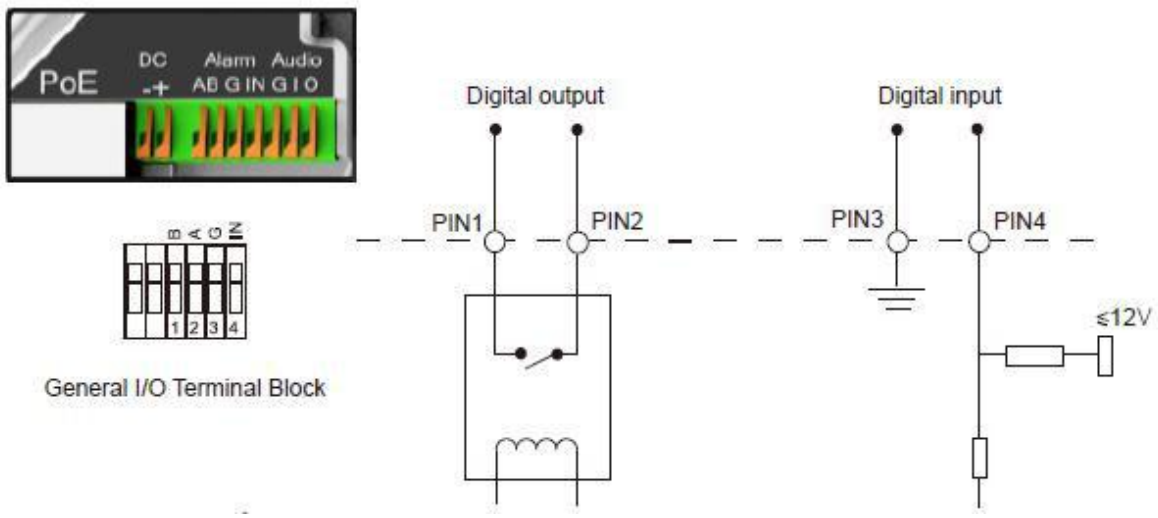


Step3: Turn the lid clockwise till the anchor points are aligned.



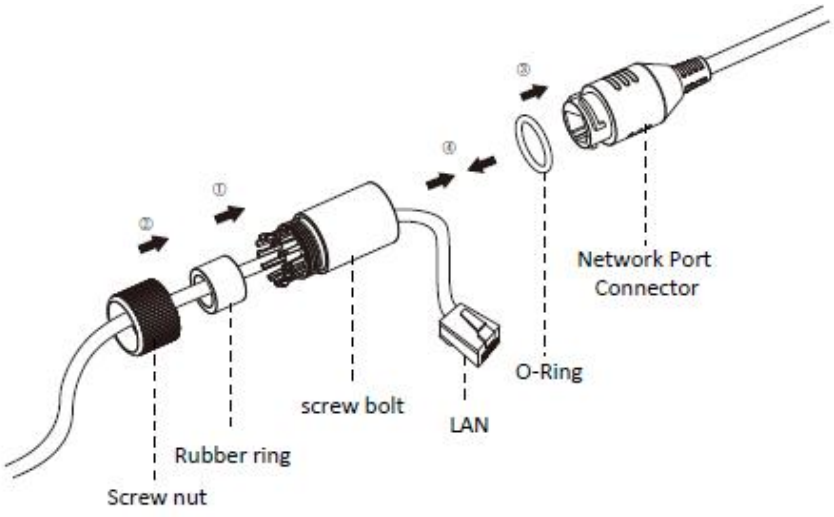
6. How to Connect to Alarm Interface

External interface of camera is as the following, you can refer to the picture to install the external alarm device:



PIN1: Alarm Output NC/NO 24V DC 1A
PIN2: Alarm Output NC/NO 24V DC 1A
PIN3: Alarm Input NC/NO ≤12V
PIN4: Alarm Input NC/NO ≤12V

7. How to Connect the Water-proof Connector



Step1: Get the network cable through the screw nut, rubber ring and the screw bolt;
Step2: Insert the rubber ring into the screw bolt;
Step3: Connect the screw nut to the screw bolt;
Step4: Place the O-Ring on the network port connector;
Step5: Connect the RJ45 to the network port connector, tighten the screw bolt and the connector;

8. Accessing the Milesight Network Camera

The camera must be assigned an IP address to be accessible.

8.1 Assigning an IP Address

The Network Camera must be assigned an IP address to be accessible. The default IP address of Milesight Network Camera is 192.168.5.190. The default user name is “admin”, and password is “ms1234”.
You can either change the IP address of the camera via Smart Tools or browser. Please connect the camera in the same LAN of your computer.

8.1.1 Assigning an IP Address by Using Smart Tools

Smart Tools is a software tool which can automatically detect multiple online Milesight network cameras in the LAN, set IP addresses, and manage firmware upgrades. It’s recommended to use when assigning IP addresses for multiple cameras.

Step1: Install Smart Tools (The software could be downloaded from Milesight official website);
Step2: Start Smart Tools, click the IPC Tools page, then enter the device information such as IP address, MAC address, Port number, Netmask, and Gateway , then all related Milesight network cameras in the same network that will be displayed. Details are shown as Figure 8-1;

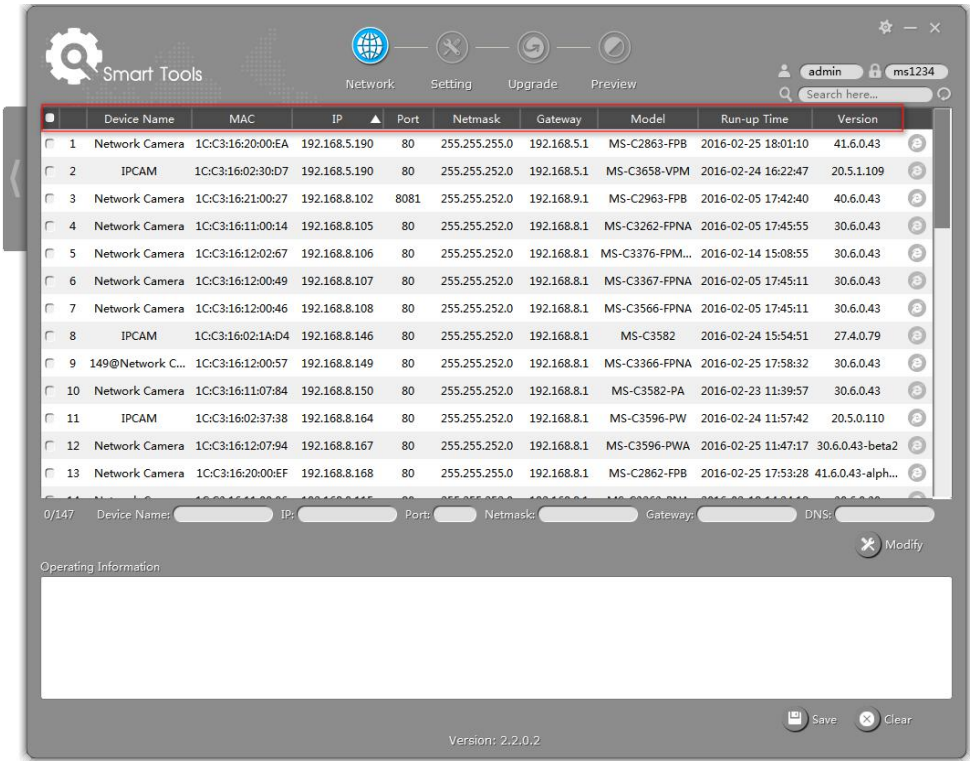


Figure 8-1 Smart Tools

Step3: Select a camera or multiple cameras according to the MAC addresses;

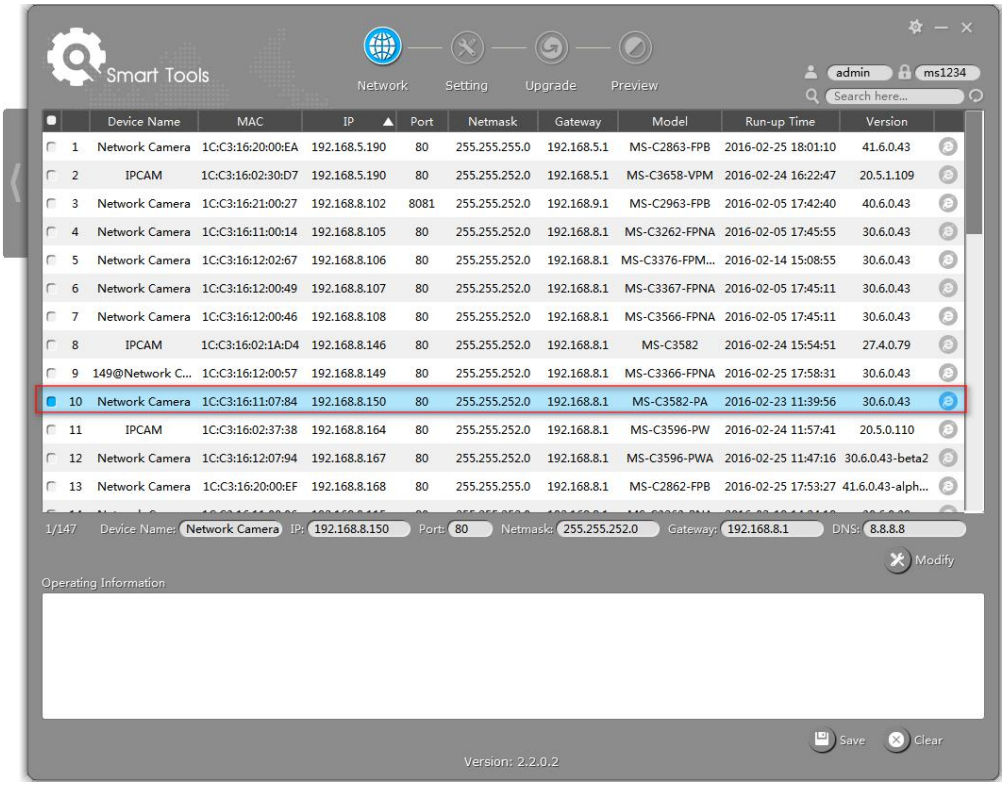


Figure 8-2 Select single camera

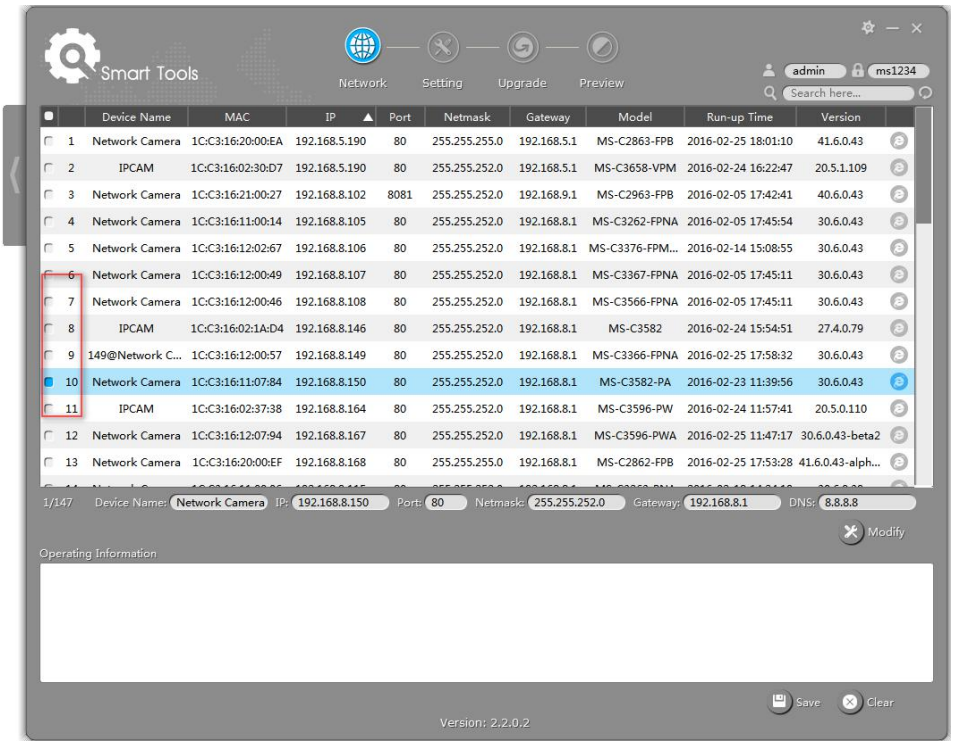


Figure 8-3 Select multiple cameras

Step4: Type the User Name and Password (admin/ms1234 for default, please change your password for your device security);

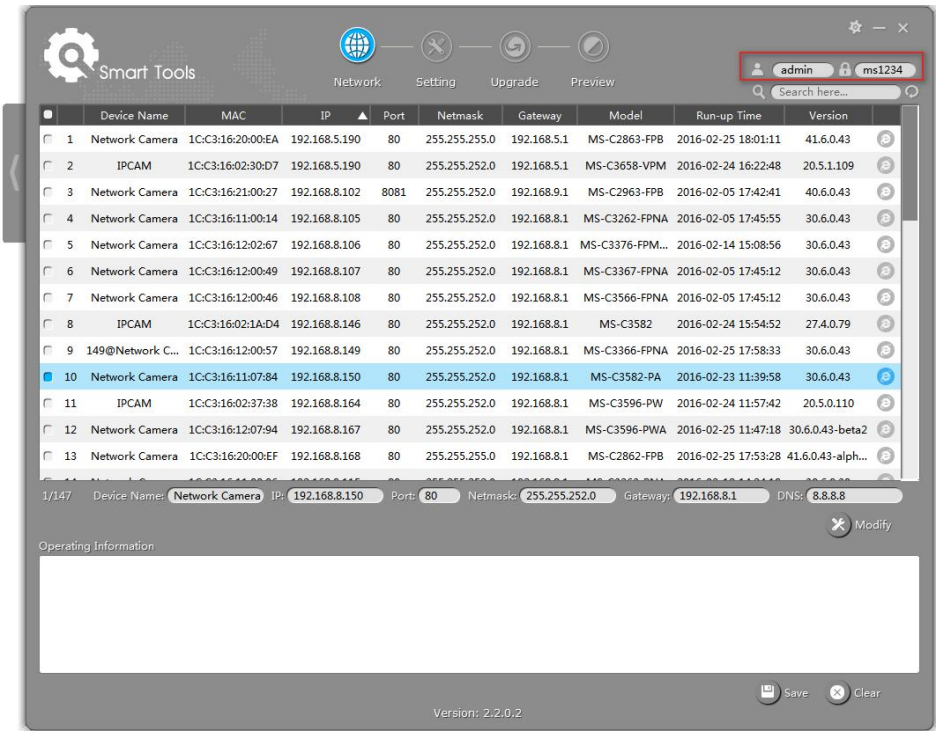


Figure 8-4

Step5: Change the IP address or other network values, and then click “Modify” button;

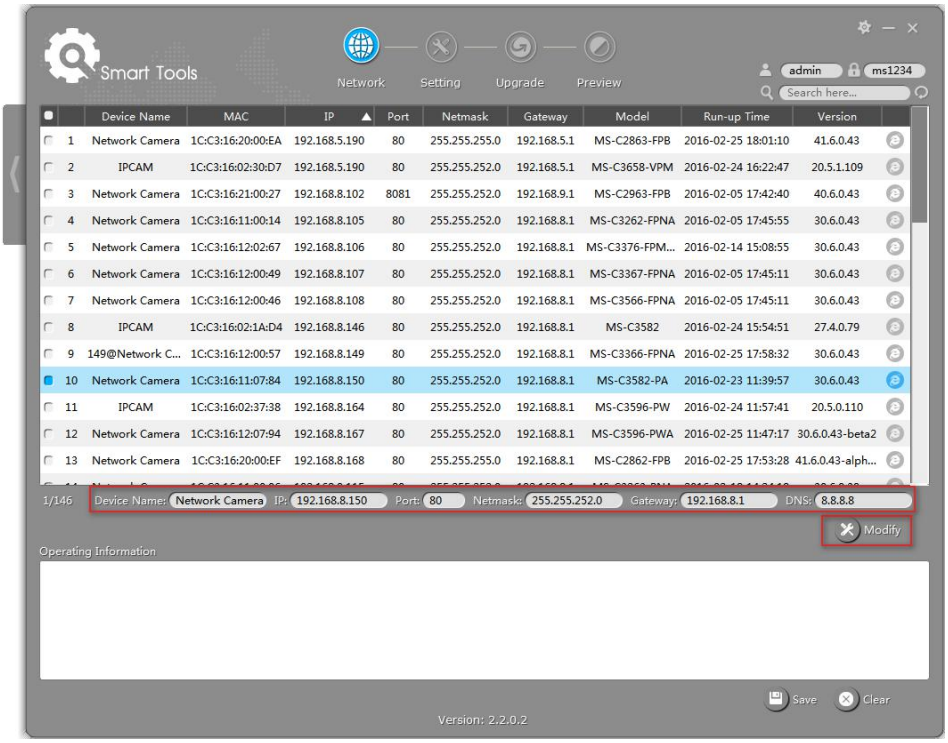


Figure 8-5

Step6: Change the IP address successfully;

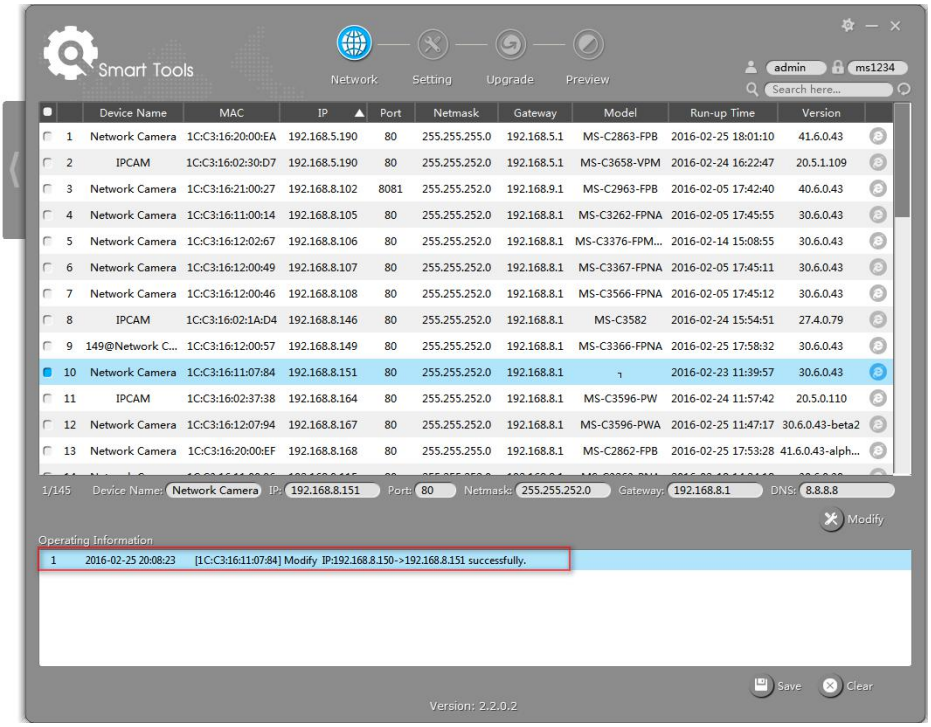


Figure 8-6 Change IP address successfully

Step7: By double clicking the selected camera or the browser of interested camera, you can access the camera via web browser directly. The Internet Explorer window will pop up.

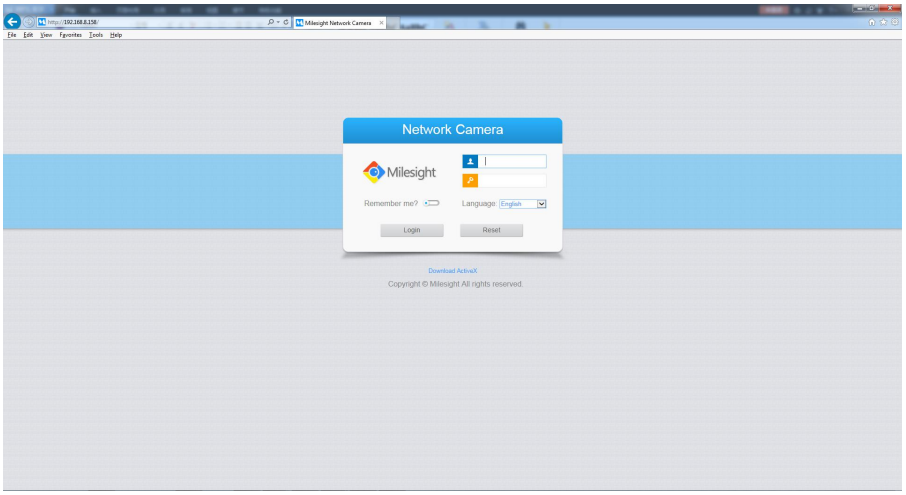


Figure 8-7

More usage of Smart Tools, please refer to the "***Smart Tools User Manual***".

8.1.2 Assign an IP Address via Browser

If the network segment of the computer and that of the camera are different, please follow the steps to change the IP address:

Step1: Change the IP address of computer to 192.168.5.0 segment, here are two ways as below:

a. Start→ Control Panel→ Network and Internet Connection→ Network Connection→ Local Area Connection, and double click it. (Refer to Figure 8-8);

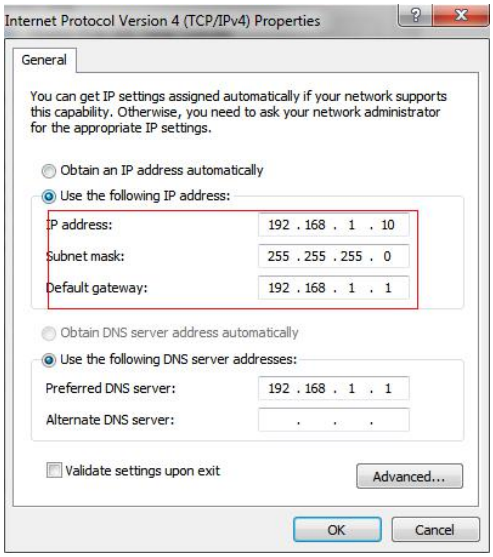


Figure 8-8

b. Click “Advanced”, and then click “IP settings”→ “IP address”→ “Add” (See Figure 8-9). In the pop-up window, enter an IP address that in the same segment with Milesight Network Camera (e.g. 192.168.5.61, but please note that this IP address shall not conflict with the IP address on the existing network);

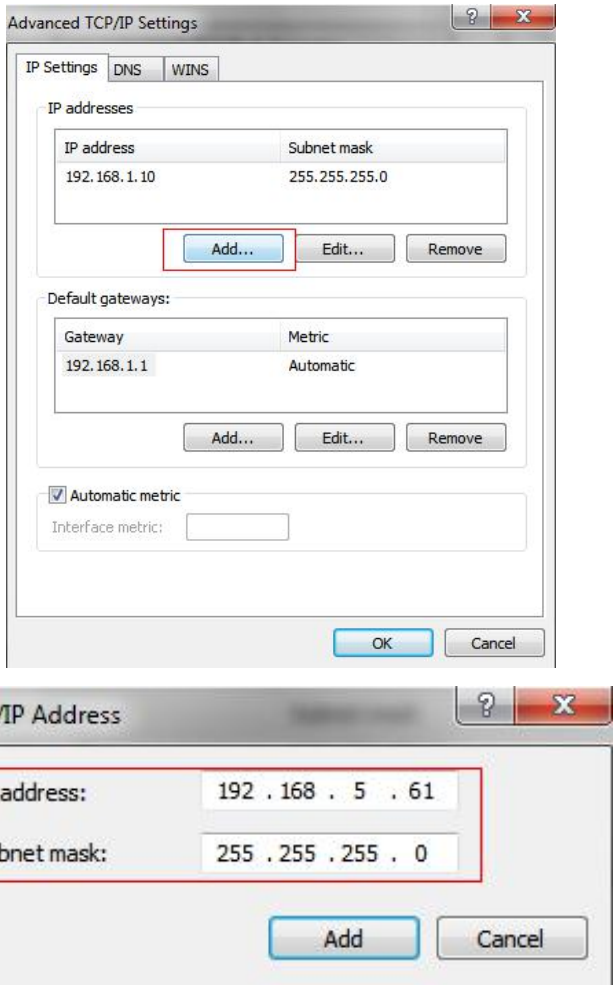


Figure 8-9

Step2: Start the browser. In the address bar, enter the default IP address of the camera: http://192.168.5.190;

Step3: Enter the user name and password when the LOGIN page appears;

Default user name: **admin**

Default password: **ms1234**

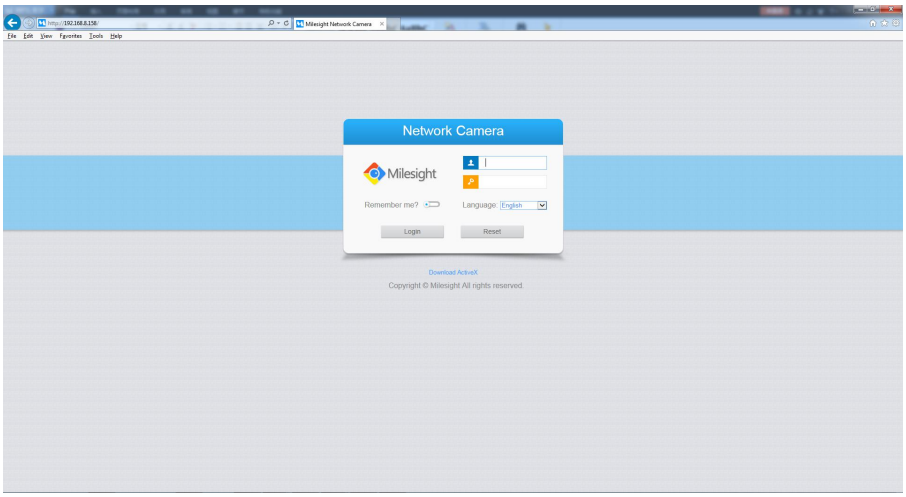


Figure 8-10

Step4: After login, please select “Configuration”→“Basic Settings”→ “Network”→ “TCP/IP”. The Network Settings page appears (Shown as below Figure);

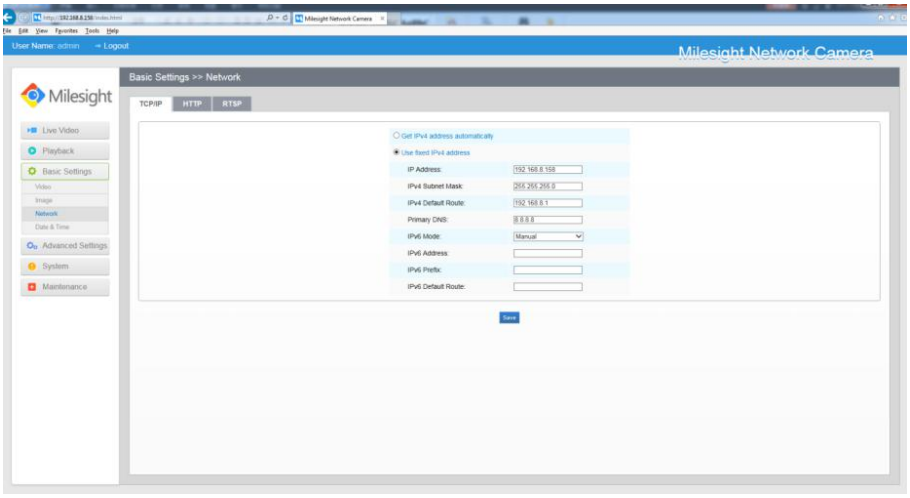


Figure 8-11

Step5: Change the IP address or other network values. Then click “Save” button;

Step6: The change of default IP address is completed.

8.2 Accessing from the Web Browser

The camera can be used with the most standard operating systems and browsers. The recommended browsers are Internet Explorer, Firefox, Chrome, Safari.

8.2.1 Access over IE Browser

Before using the browser to get access to your camera, you need to install the MsActiveX firstly. You can refer the steps as follows:

Step1: Launch the IE browser and enter the IP address of the camera.
Step2: Enter the User Name and Password and click “Login”.
(The default user name is “admin”, password is “ms1234”)
Step3: At the first time to log in the device, the browser will prompt to install Controls, please click “Click here to download and install controls manually” as Figure 8-12.



Figure 8-12

Note：
During installing the controls, please keep the browsers close.

Step4: Follow the prompts to install the Controls, when it’s finished, it will pop out a window as Figure 8-12. Please click “Finish” and refresh the browser, then you will see the video.

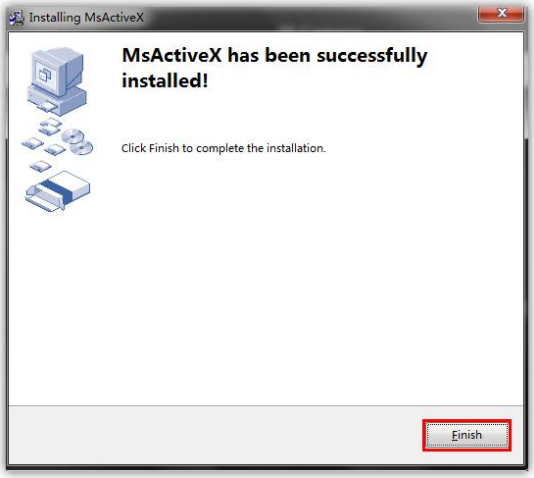


Figure 8-13

If IE9 or higher version browser is used, it is suggested that the Milesight camera web link should be added as a trusted site. See the instructions as follows:
Step1: Start the IE9 or higher version browser, and select “Tools”→ “Internet Options”;

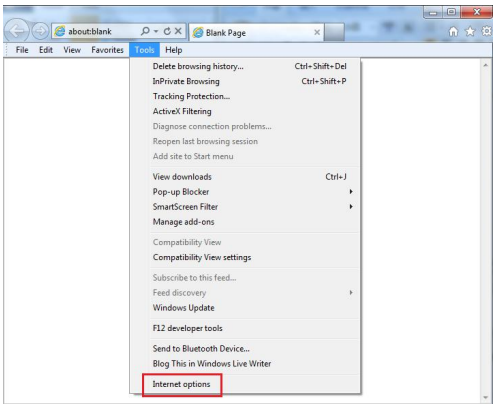


Figure8-14

Step2: Select “Security” to “Trusted”;



Figure 8-15

Step3: Enter the IP address of the camera in the blank and click “Add”;

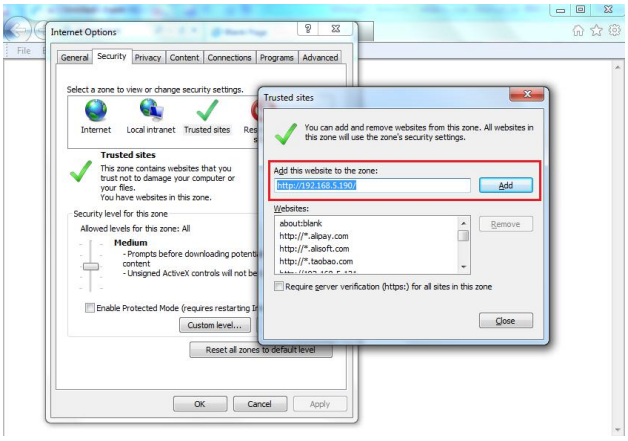


Figure 8-16

Step4: Enter the IP address. After logging on Network Camera’s web GUI successfully, user is allowed to view live video as follows.

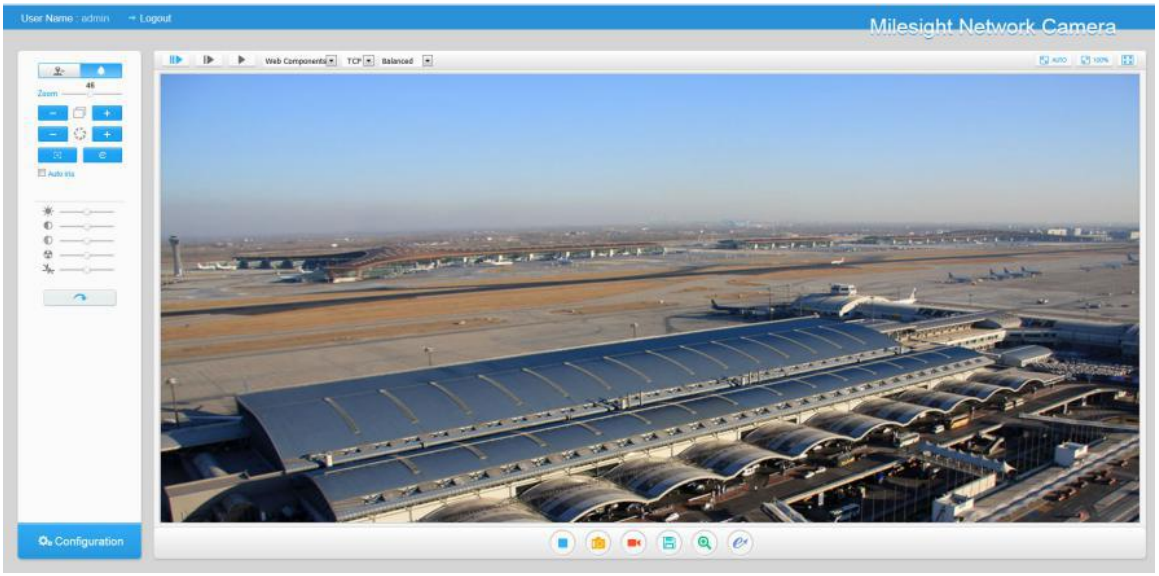


Figure 8-17

Network Camera

Megapixel Network camera for video surveillance

Thank you

for choosing

Milesight product

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