



Network Camera User Manual

Milesight Technology Co.,Ltd.

V6.07

Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact your dealer.

This manual is applicable to the Milesight H.264&H.265 Network Camera, series shown as follows, except where otherwise indicated.

Milesight H.264 Network Camera			
Type Megapixel	1.3MP	2.0MP	3.0MP
Mini Dome Camera	MS-C2181-PA	MS-C3581-PA	MS-C3586-PA
IR Mini Dome Camera	MS-C2182-PA	MS-C3582-PA	MS-C3587-PA
Vandal-proof Mini Dome	MS-C2173-PA	MS-C3373-PA MS-C3573-PA	MS-C3377-PA MS-C3577-PA
Wi-Fi Mini Cube Camera	MS-C2191-PWA	-	MS-C3596-PWA
Mini Bullet Camera	MS-C2163-PNA	MS-C3263-PNA MS-C3363-PNA	MS-C3367-PNA MS-C3567-PNA
Remote Focus&Zoom Mini Bullet Camera	MS-C2163-F(I)PNA	MS-C3263-F(I)PNA MS-C3363-F(I)PNA	MS-C3367-F(I)PNA MS-C3567-F(I)PNA
Remote Focus&Zoom Pro Bullet Camera	MS-C2162-F(I)PNA	MS-C3262-F(I)PNA MS-C3362-F(I)PNA	MS-C3366-F(I)PNA MS-C3566-F(I)PNA
Remote Focus&Zoom Pro Dome Camera	MS-C2172-F(I)PNA	MS-C3272-F(I)PNA MS-C3372-F(I)PNA	MS-C3376-F(I)PNA MS-C3576F(I)PNA
Remote Focus&Zoom Pro Dome(M) Camera	MS-C2172-F(I)PMNA	MS-C3272-F(I)PMNA MS-C3372-F(I)PMNA	MS-C3376-F(I)PMNA MS-C3576-F(I)PMNA
Day&Night Pro Box Camera	MS-C2151-PA	-	MA-C3356-PA MS-C3556-PA

	Milesight H.265 Network Camera		
Type Megapixel	2.0MP	3.0MP	4.0MP
IR Mini Dome Network Camera	MS-C2982-PB	-	MS-C4482-PB
Vandal-proof Mini Dome Network Camera	MS-C2973-PB	-	MS-C4473-PB
Mini Bullet Camera	MS-C2963-PB	MS-C3763-PB	MS-C4463-PB
Remote Focus&Zoom Mini Bullet Camera	MS-C2963-F(I)PB	MS-C3763-F(I)PB	MS-C4463-F(I)PB
Remote Focus&Zoom Pro Bullet Camera	MS-C2862-F(I)PB MS-C2962-(R)F(I)PB	MS-C3762-F(I)PB	MS-C4462-F(I)PB
Remote Focus&Zoom Pro Dome Camera	MS-C2972-F(I)PB	MS-C3772-F(I)PB	MS-C4472-F(I)PB
Remote Focus&Zoom Pro Dome(M) Camera	MS-C2972-F(I)PMB	MS-C3772-F(I)PMB	MS-C4472-F(I)PMB
Day&Night Pro Box Network Camera	MS-C2951-FB	MS-C3751-FB	MS-C4451-FB

This Manual explains how to use and manage Milesight network cameras on your network. Previous experience of networking will be of use when using the products. Please read this manual carefully before operation and retain it for future reference.

This manual may contain several technically incorrect places or printing errors, and the content is subject to change without notice. The updates will be added into the new version of this manual. We will readily improve or update the products or procedures described in the manual.

Copyright Statement

This manual may not be reproduced in any form or by any means to create any derivative such as translation, transformation, or adaptation without the prior written permission of Milesight Technology Co., Ltd.(Hereinafter referred to as Milesight).

Milesight reserves the right to change this manual and the specifications without prior notice. The latest specifications and user documentation for all Milesight products are available on our official website www.milesight.com

Industry Canada ICES-003 Compliance:

This Class B digital apparatus complies with Canadian ICES-003.



Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

**Safety Instruction**

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. The precaution measures are divided into “Warnings” and “Cautions”

Warnings: Serious injury or death may be caused if any of these warnings is neglected.

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

	
Warnings: Please follow these safeguards to prevent injury or death.	Cautions: Please follow these safeguards to prevent potential injury or material damage.

**Warnings**

- ◆ This installation must be conducted by a qualified service person and should strictly comply with the electrical safety regulations of the local region
- ◆ To avoid risk of fire and electric shock, do keep the product away from rain and moisture before installed.
- ◆ Do not touch components such as heat sinks, power regulators, and processors, which may be hot
- ◆ Source with DC 12V or PoE
- ◆ Please make sure the plug is firmly inserted into the power socket
- ◆ When the product is installed on a wall or ceiling, the device should be firmly fixed
- ◆ If the product does not work properly, please contact your dealer. Never attempt to disassemble the camera by yourself

**Cautions**

- ◆ Make sure that the power supply voltage is correct before using the camera
- ◆ Do not store or install the device in extremely hot or cold temperatures, dusty or damp locations, and do not expose it to high electromagnetic radiation
- ◆ Only use components and parts recommended by manufacturer
- ◆ Do not drop the camera or subject it to physical shock
- ◆ To prevent heat accumulation, do not block air circulation around the camera
- ◆ Laser beams may damage image sensors. The surface of image sensors should not be exposed to where a laser beam equipment is used
- ◆ Use a blower to remove dust from the lens cover
- ◆ Use a soft, dry cloth to clean the surface of the camera. Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry

- ◆ Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface finishes
- ◆ Save the package to ensure availability of shipping containers for future transportation

EU Conformity Statement



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury(Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Table of Contents

Chapter I Product Description.....	1
1.1 Product Overview.....	1
1.2 Key Features.....	1
1.3 Hardware Overview.....	2
1.4 Hardware Installation.....	12
1.5 How to Connect to Alarm Interface.....	28
1.6 System Requirements.....	28
Chapter II Network Connection.....	29
2.1 Setting the Camera over the LAN.....	29
2.1.1 Connect the Camera to the PC Directly.....	29
2.1.2 Connect via a Switch or a Router.....	29
2.2 Dynamic IP Connection.....	29
Chapter III Accessing the Network Camera.....	31
3.1 Assigning An IP Address.....	31
3.1.1 Assigning An IP Address Using Smart Tools.....	31
3.1.2 Assign An IP Address via Browser.....	34
3.2 Accessing from the Web Browser.....	35
3.2.1 Access over IE Browser.....	35
3.3 Accessing from Milesight VMS (Video Management Software).....	37
Chapter IV System Operation Guide.....	38
4.1 Live Video.....	38
4.2 Playback.....	40
4.3 Basic Settings.....	42
4.3.1 Video.....	42
4.3.2 Image.....	43
4.3.3 Audio.....	48
4.3.4 Wi-Fi.....	49
4.3.5 Network.....	50
4.3.6 Date&Time.....	53
4.4 Advanced Settings.....	54
4.4.1 Image.....	54
4.4.2 Network.....	55
4.4.3 Alarm.....	60
4.4.4 Storage.....	67
4.4.5 Security.....	71
4.4.6 SIP.....	72
4.4.7 Logs.....	75
4.5 System.....	75
4.6 Maintenance.....	76
Chapter V Services.....	78

Chapter I Product Description

1.1 Product Overview

Milesight provides a consistent range of cost-effective and reliable network cameras to fully meet your requirements. Based on embedded Linux operating system, Milesight network cameras could be easily accessed and managed either locally or remotely with great reliability. Built-in high-performance DSP video processing modules, the cameras pride on low power consumption and high stability. They support state-of-the-art H.265/H.264/MJPEG video compression algorithm and industry-leading HD dual-stream technology to achieve the highest level of video image quality under the limited network resources. It is fully functional, supporting for flexible and comprehensive alarm linkage mechanism, day and night auto switch, smart PTZ control and privacy masking, etc.

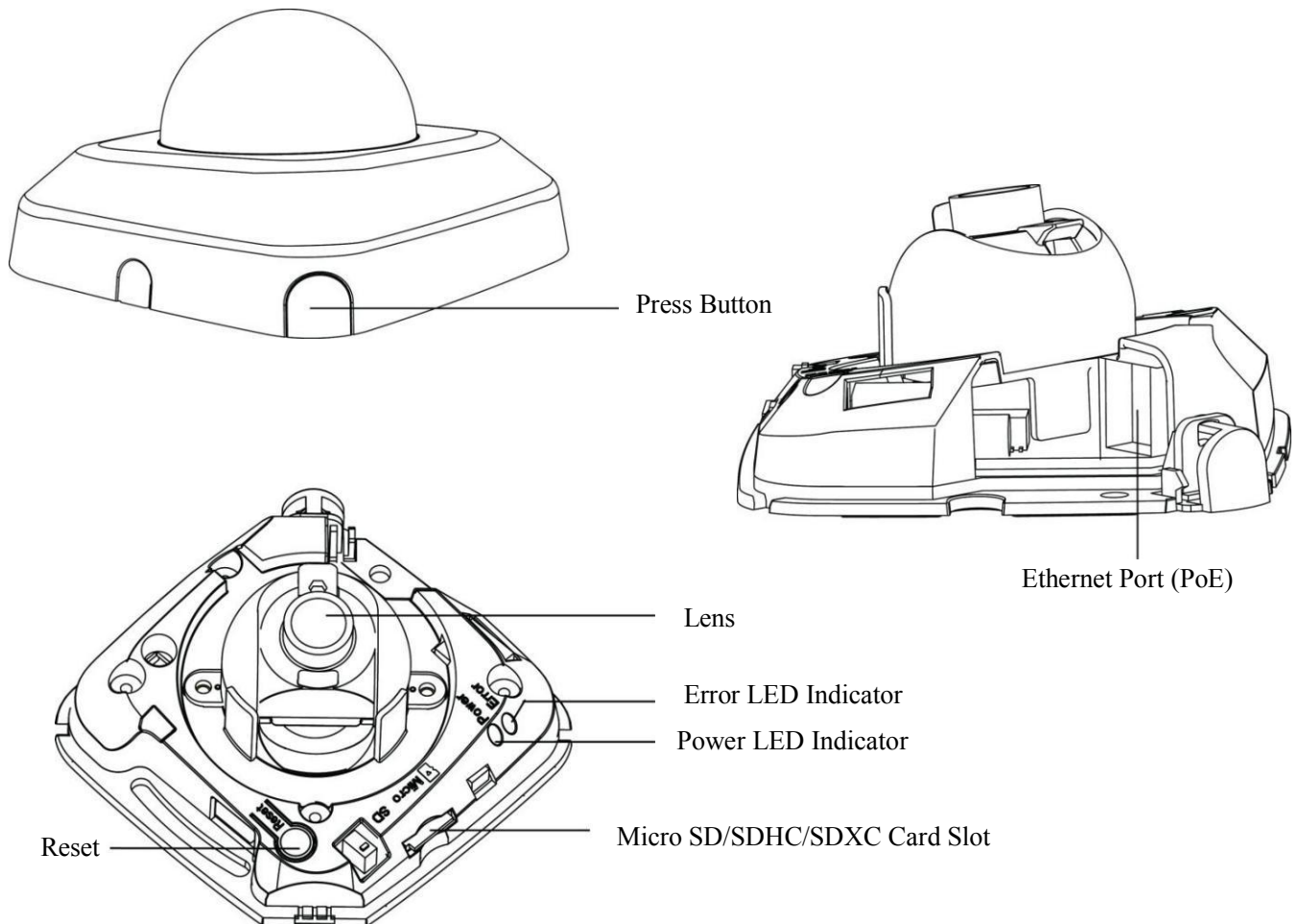
In practical applications, Milesight network cameras could either work independently in the LAN, or be networked to form a powerful safety monitoring system. It is widely used in fields such as finance, education, industrial production, civil defense, health care for security's sake.

1.2 Key Features

- ✧ Based on Linux OS with high reliability
- ✧ H.265/H.264/MJPEG video compression capability
- ✧ Support ONVIF Profile S
- ✧ Support three streams
- ✧ Support PoE
- ✧ ICR filter with auto switch, true day/night
- ✧ Built-in WEB server, support IE/ Firefox/ Chrome/ Safari browser
- ✧ UPnP protocol for the easy management of IPC
- ✧ Motion Detection, Privacy Masking, Network Fault Detection and ROI
- ✧ FTP upload, SMTP upload, SD card record and SIP phone
- ✧ G.711/AAC audio compression capability
- ✧ Alarm I/O(built-in for bullet and box cameras, optional for dome cameras)
- ✧ Built-in Microphone(built-in for (IR) Mini Dome and Vandal-proof Mini Dome, optional for Pro Dome)
- ✧ Real-time video electronic amplification
- ✧ Three-privilege levels of users for flexible management
- ✧ Micro SD/SDHC/SDXC card local storage support, expand the edge storage
- ✧ Local PAL/NTSC signal output

1.3 Hardware Overview

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, the device will be restored to factory default.
- 3) Only PoE is available for power supply.

2. IR Mini Dome Network Camera

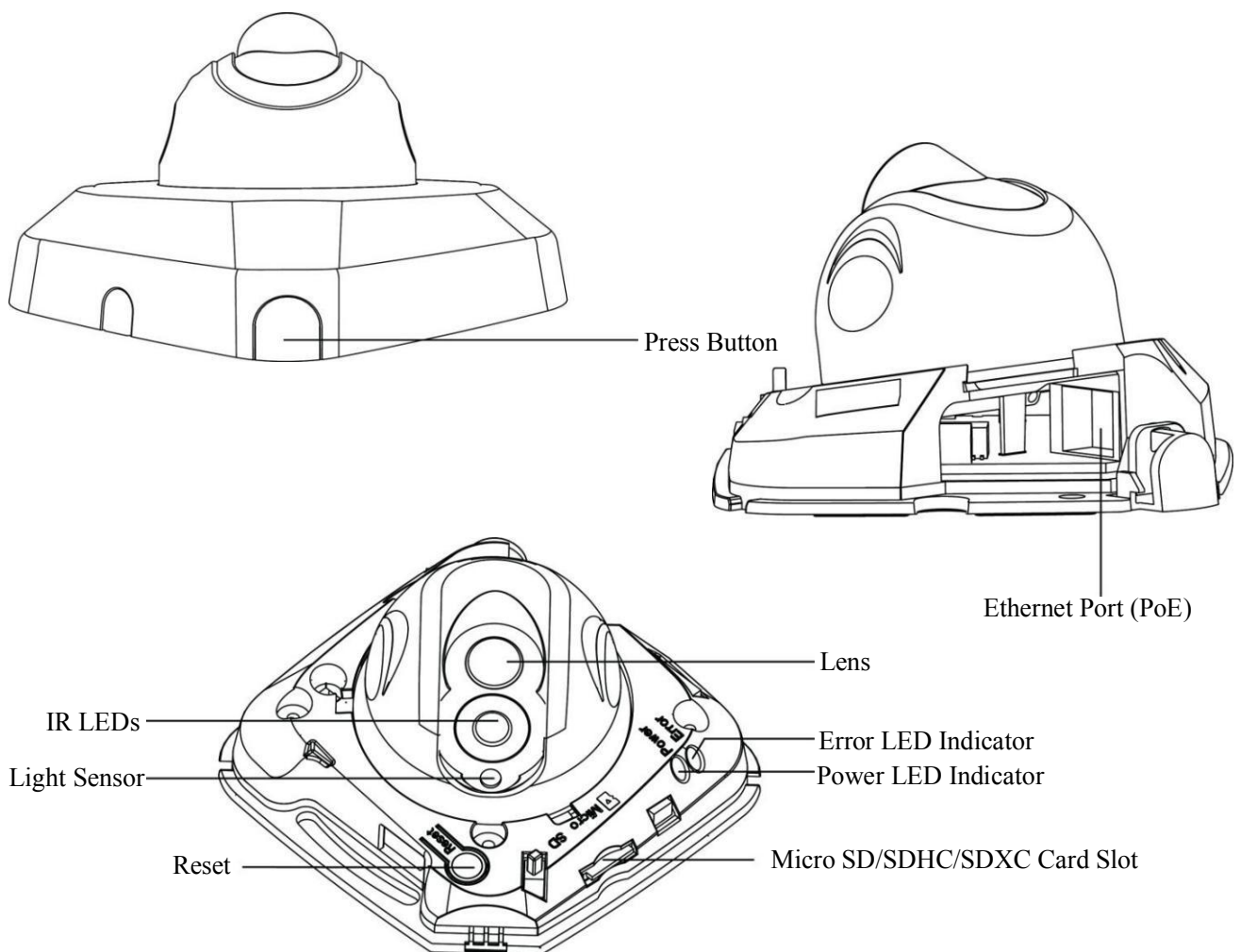


Figure 1-3-2 IR Mini Dome Network Camera

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, the device will be restored to factory default.
- 3) Only PoE is available for power supply.

3. Vandal-proof Mini Dome Network Camera

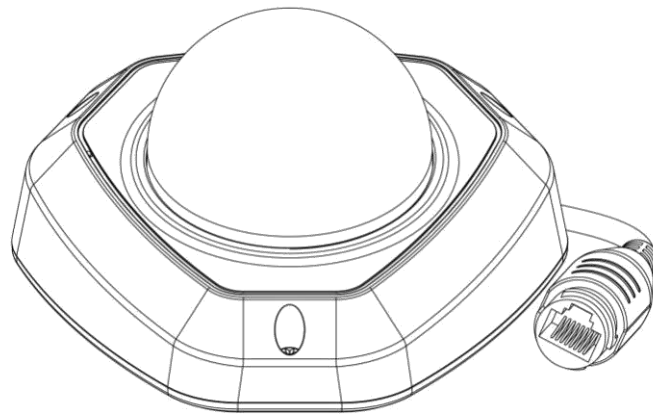


Figure 1-3-3

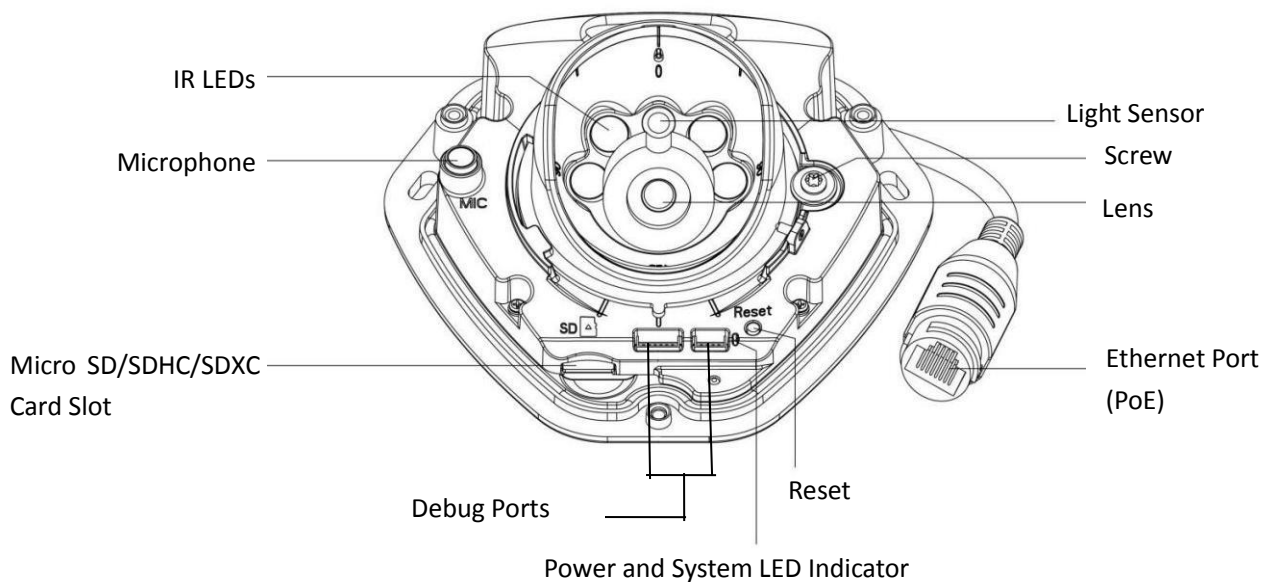


Figure 1-3-4 Vandal-proof Mini Dome Network Camera

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, the device will be restored to factory default.
- 3) Only PoE is available for power supply.

4. Wi-Fi Mini Cube Network Camera

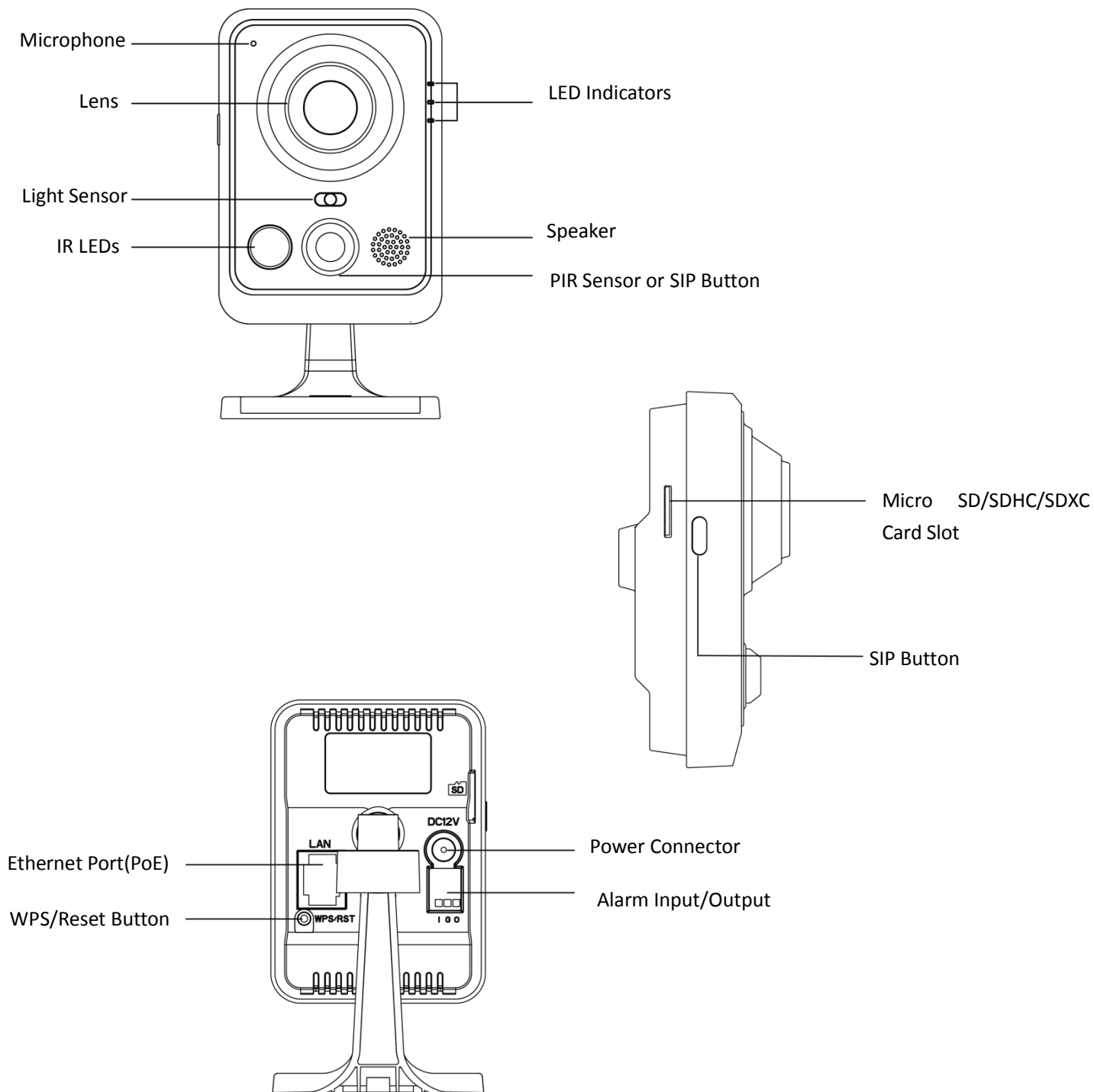


Figure 1-3-5 Wi-Fi Mini Cube Network Camera

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;

5. Mini Bullet Network Camera

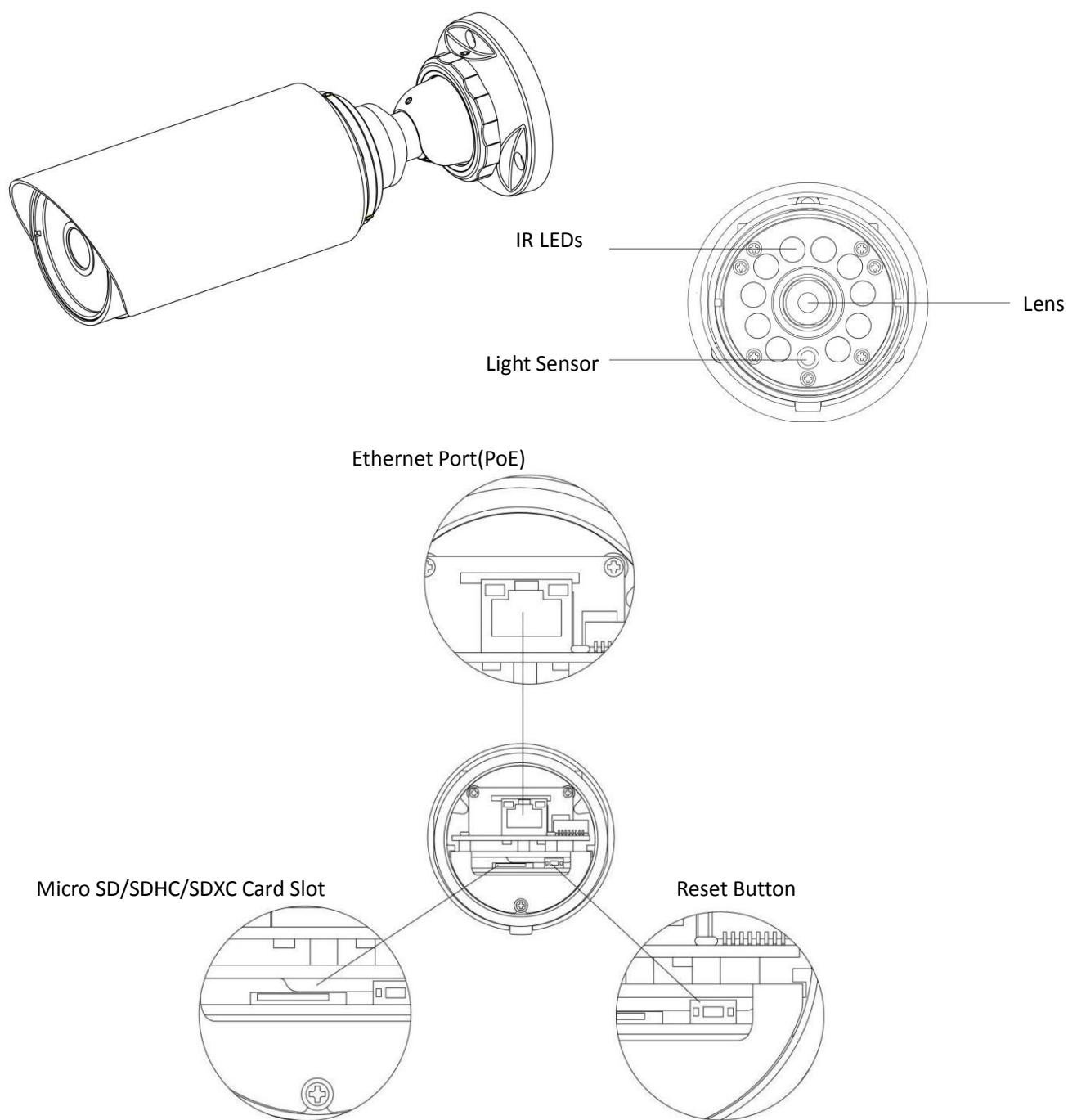


Figure 1-3-6 Mini Bullet Network Camera

Note:

- 1) Only PoE is available for power supply.

6. Remote Focus&Zoom Mini Bullet Network Camera

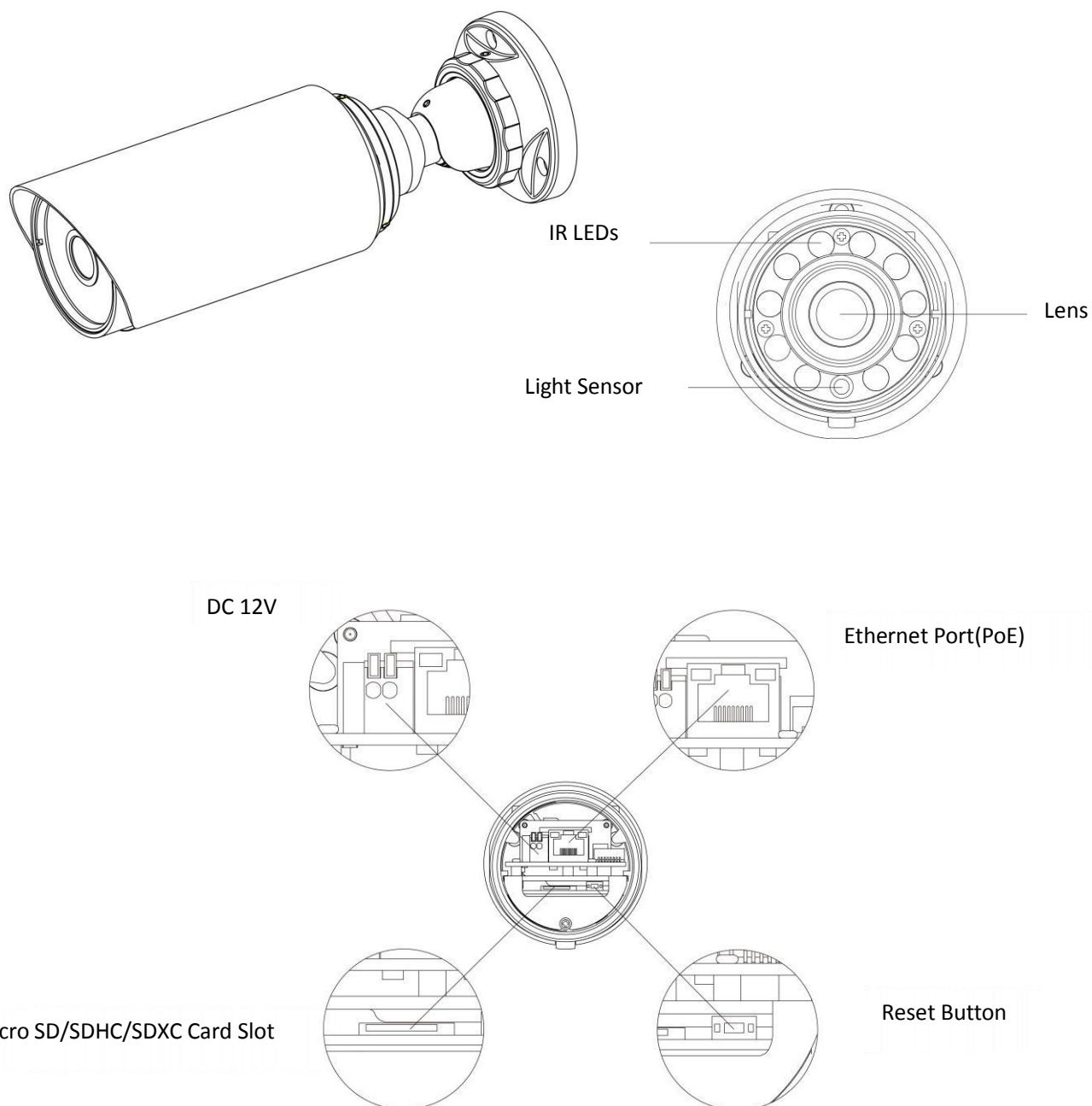


Figure 1-3-7 Remote Focus&Zoom Mini Bullet Network Camera

Note:

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

7. Pro Bullet Network Camera

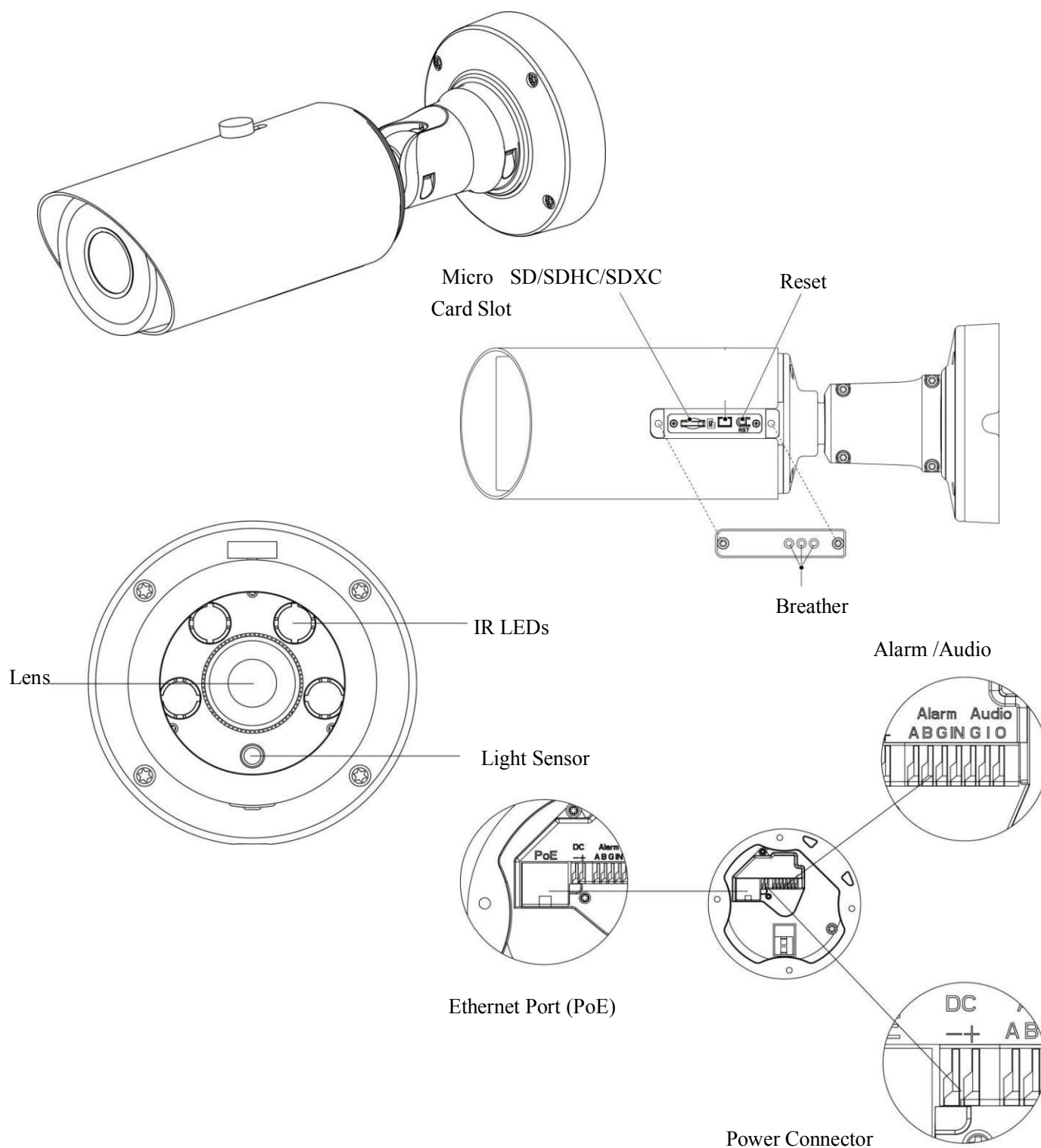
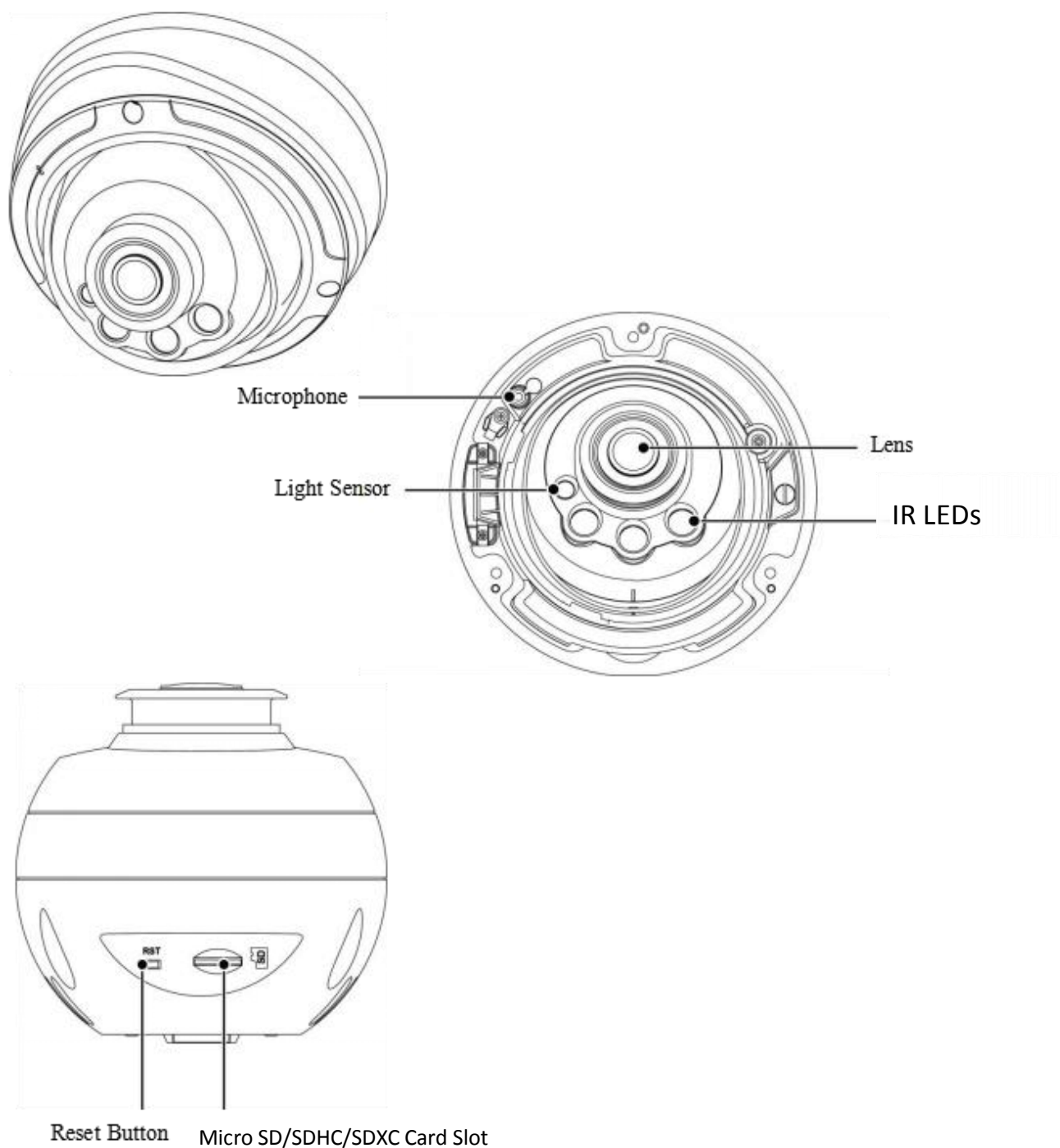


Figure 1-3-8 Pro Bullet Network Camera

Note:

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

8. Pro Dome Network Camera



Note:

- 1) There are two versions for Pro Dome: **Standard** and **Multiple Interface**, the interface's pictures are as following;
- 2) Multiple Interface adopts the external interface "Audio In" instead of the Microphone built-in;

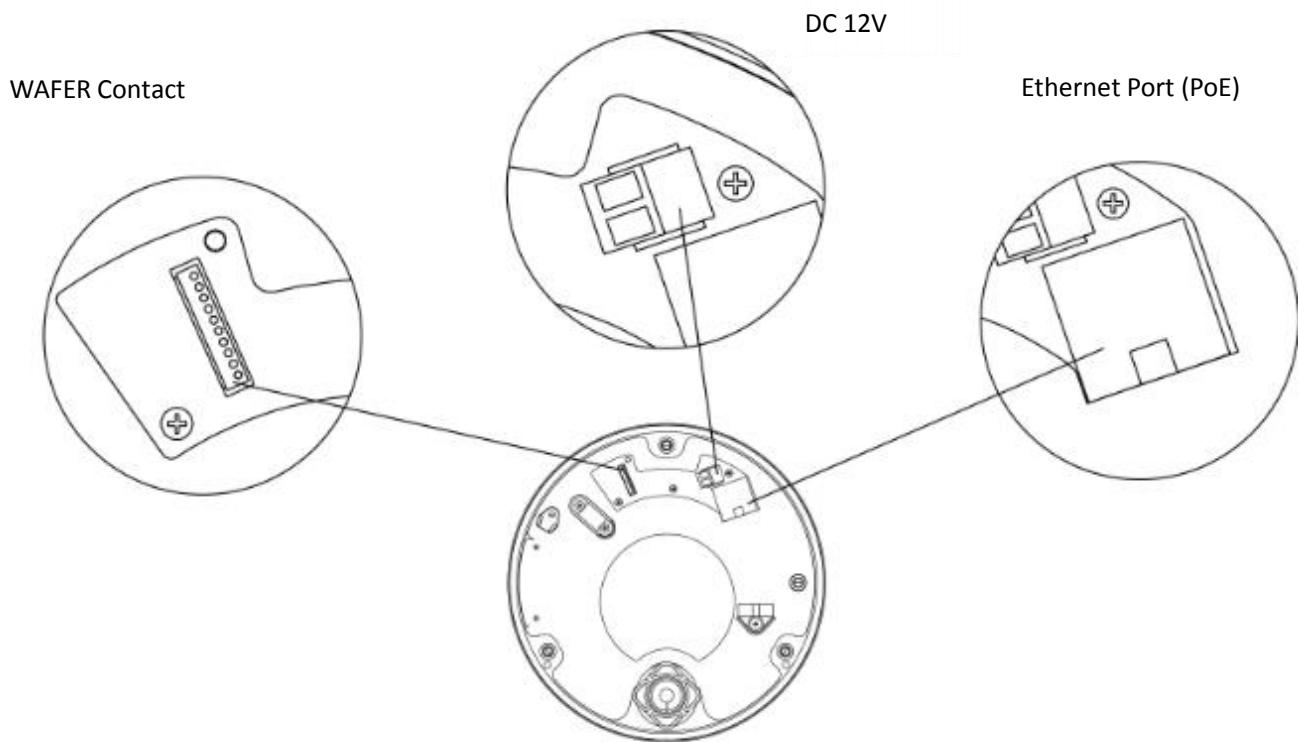


Figure 1-3-9 Pro Dome Network Camera (Standard Interface)

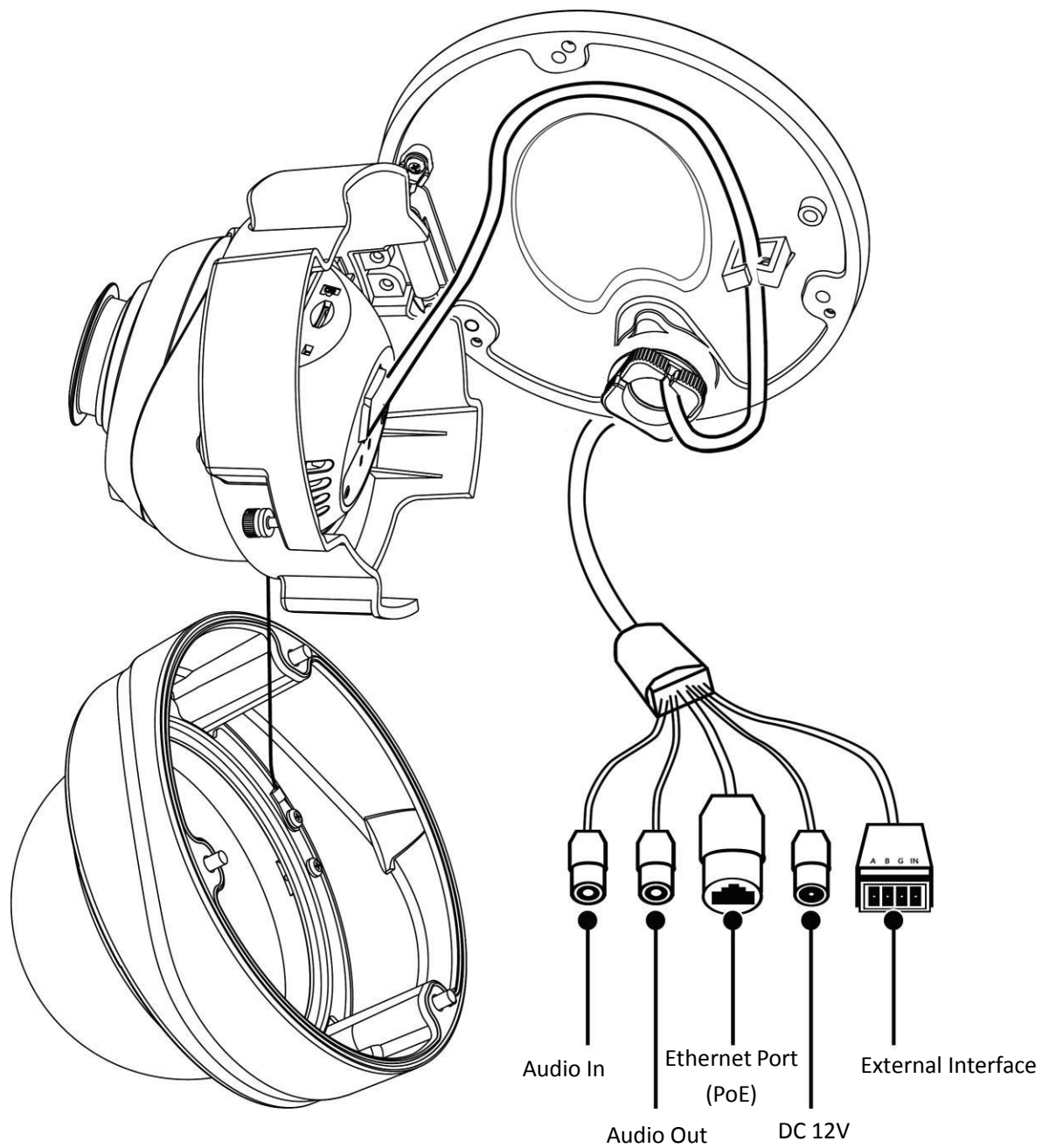
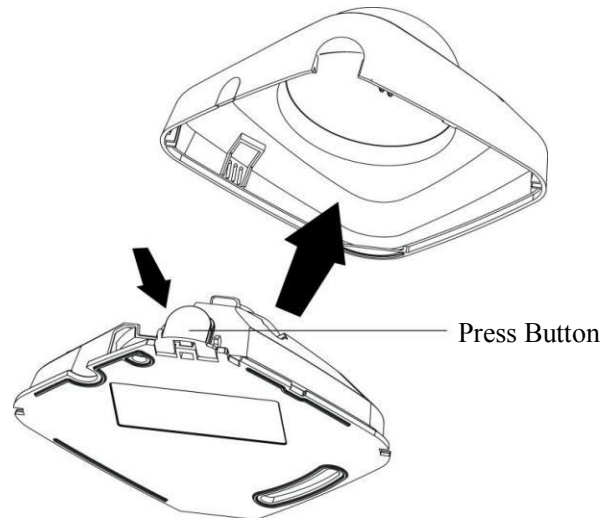


Figure 1-3-10 Pro Dome Network Camera (Multiple Interface)

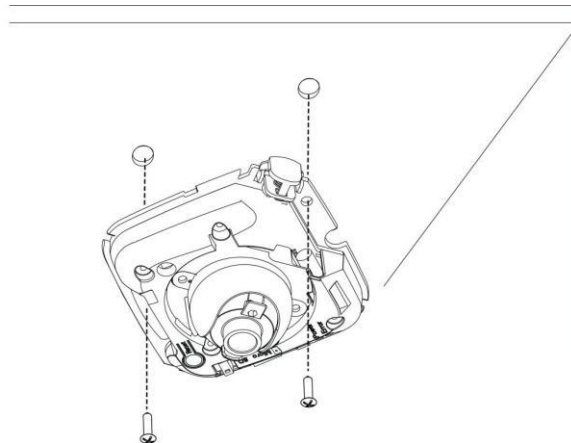
1.4 Hardware Installation

1. Mini Dome Network Camera

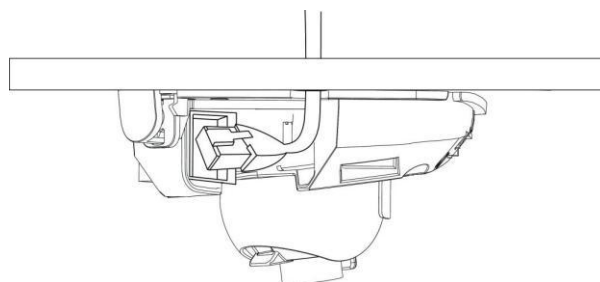
Step1: Remove the dome cover;



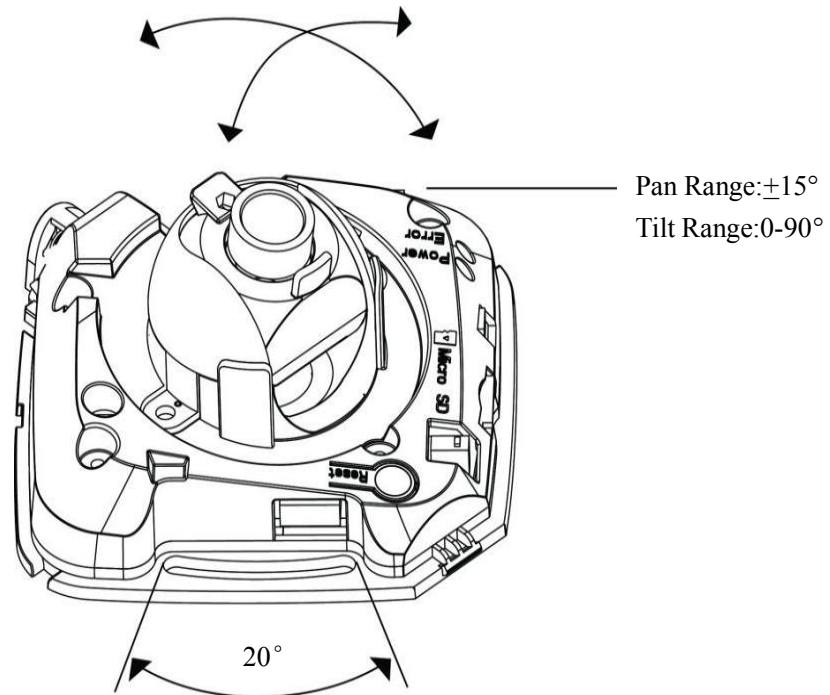
Step2: Secure the screws;



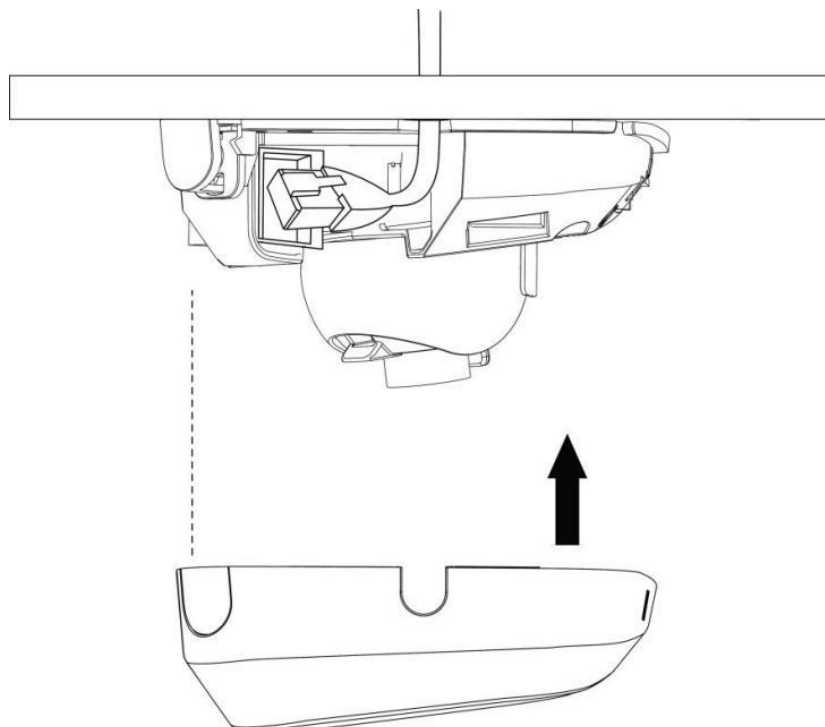
Step3: Connect and route an Ethernet cable through the ceiling or wall;



Step4: Adjust the lens angle and focus;

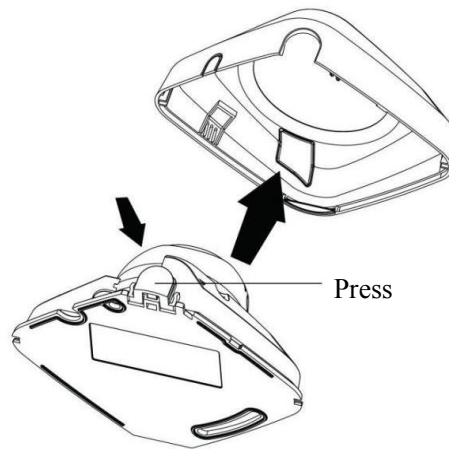


Step5: Attach the dome cover;

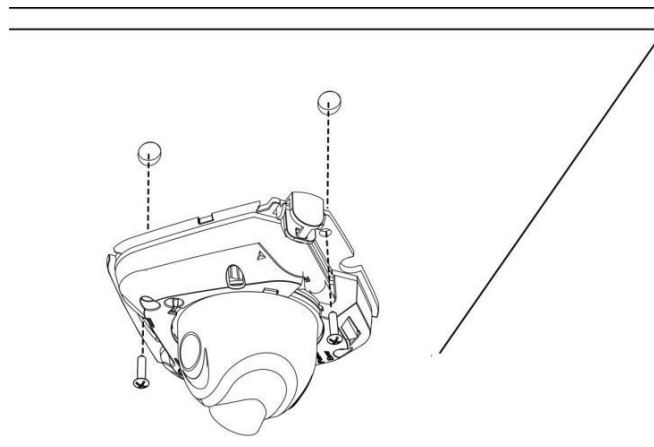


2. IR Mini Dome Network Camera

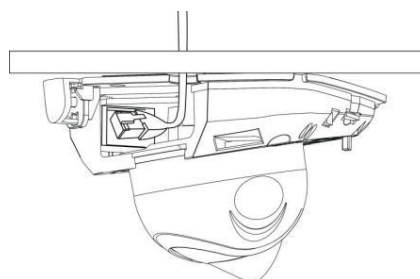
Step1: Remove the dome cover;



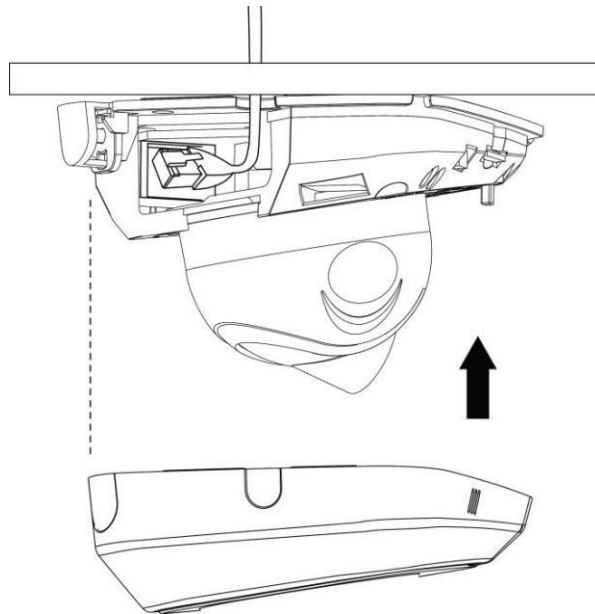
Step2: Secure the screws;



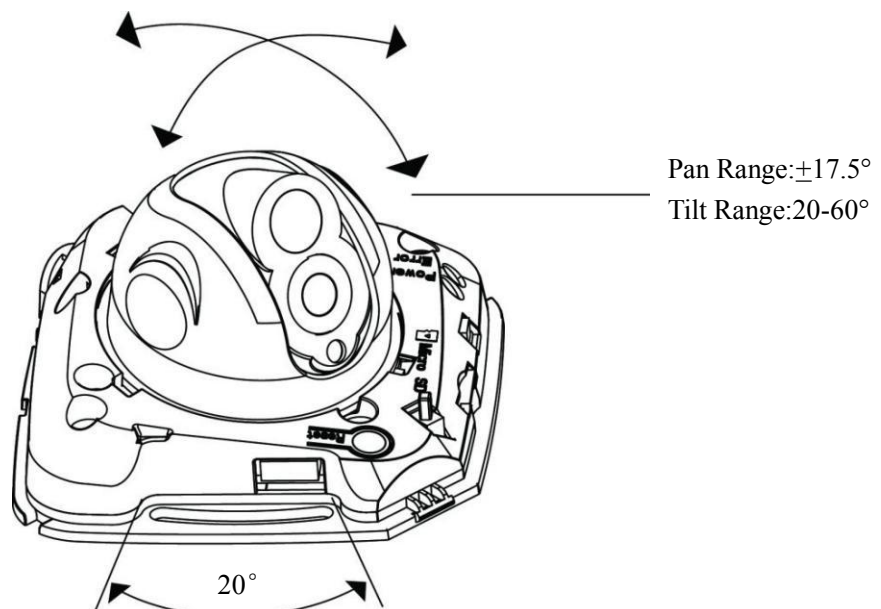
Step3: Connect and route an Ethernet cable through the ceiling or wall;



Step4: Attach the dome cover;

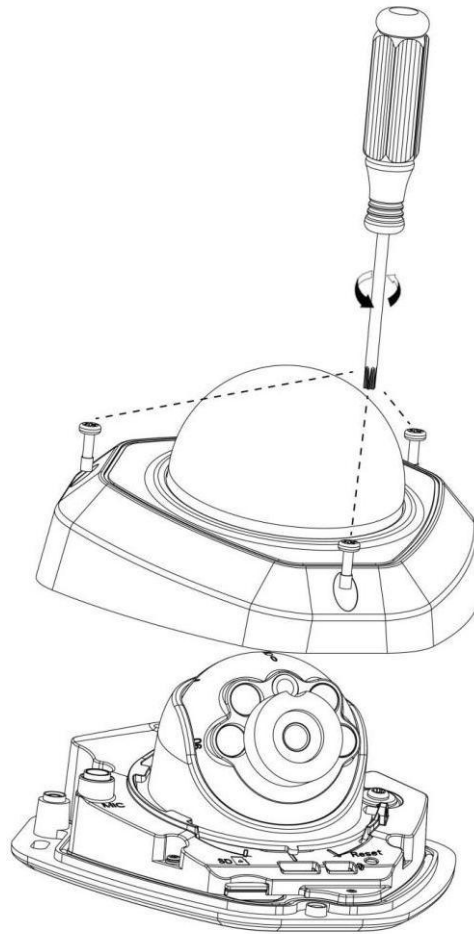


Step5: Adjust the lens angle and focus;

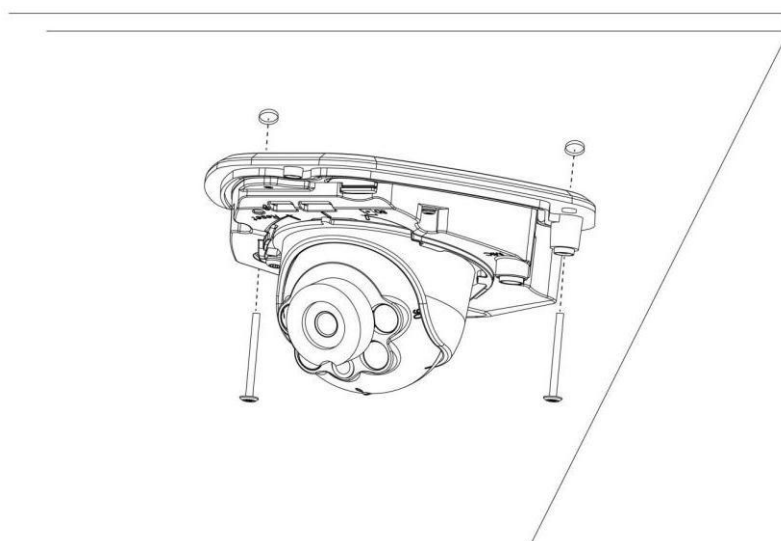


3. Vandal-proof Mini Dome Network Camera

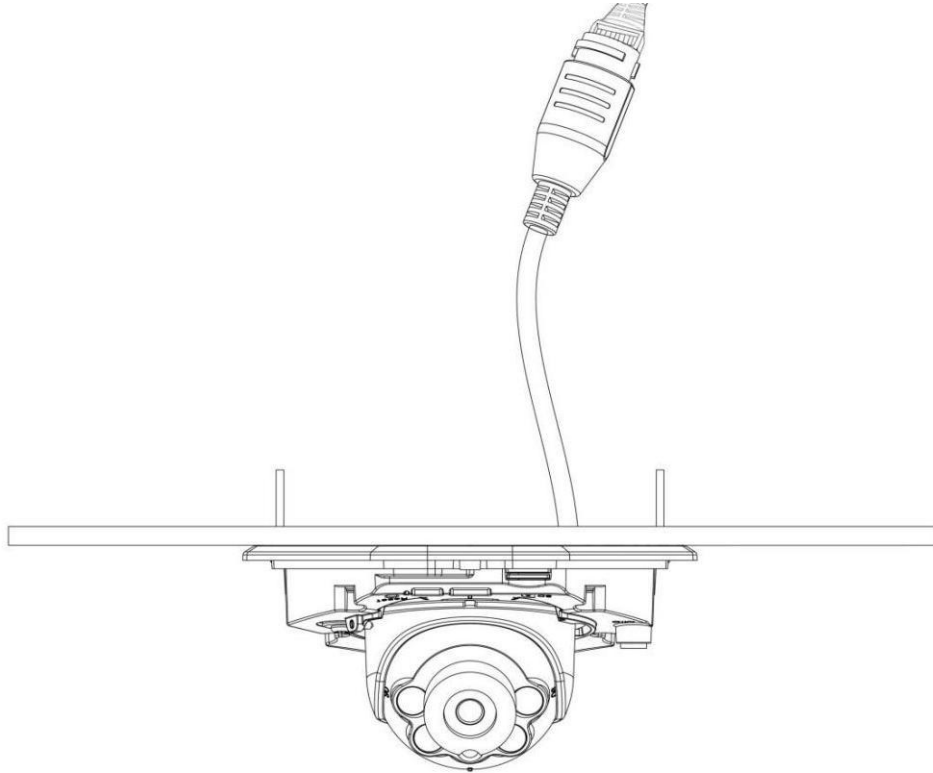
Step1: Remove the dome cover;



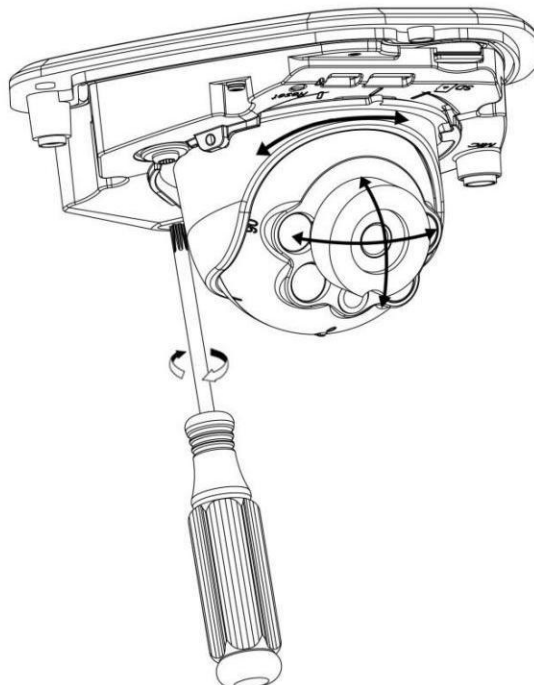
Step2: Secure the screws;



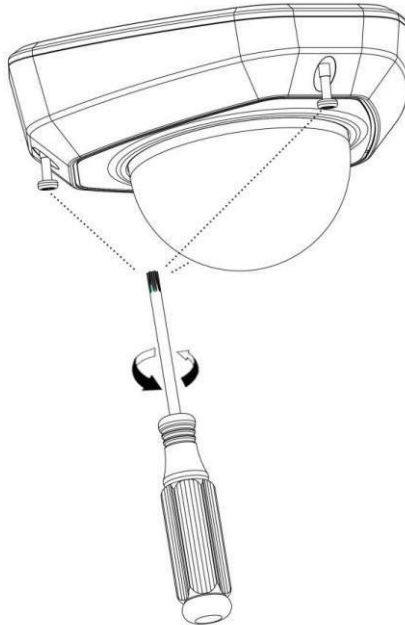
Step3: Connect and route an Ethernet cable through the ceiling or wall;



Step4: Loosen the screw and adjust the lens angle and focus;

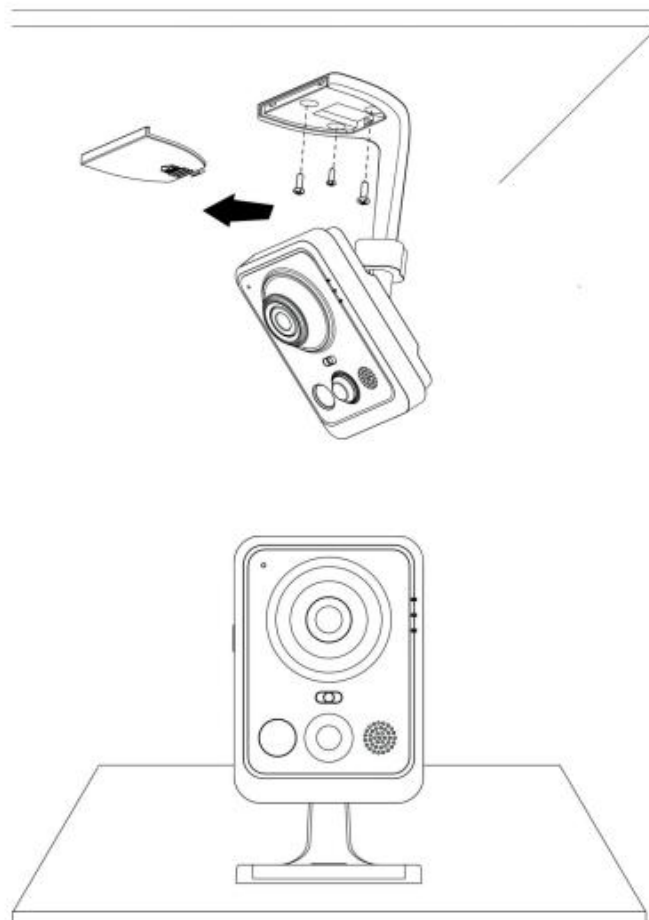


Step5: Attach the dome cover;

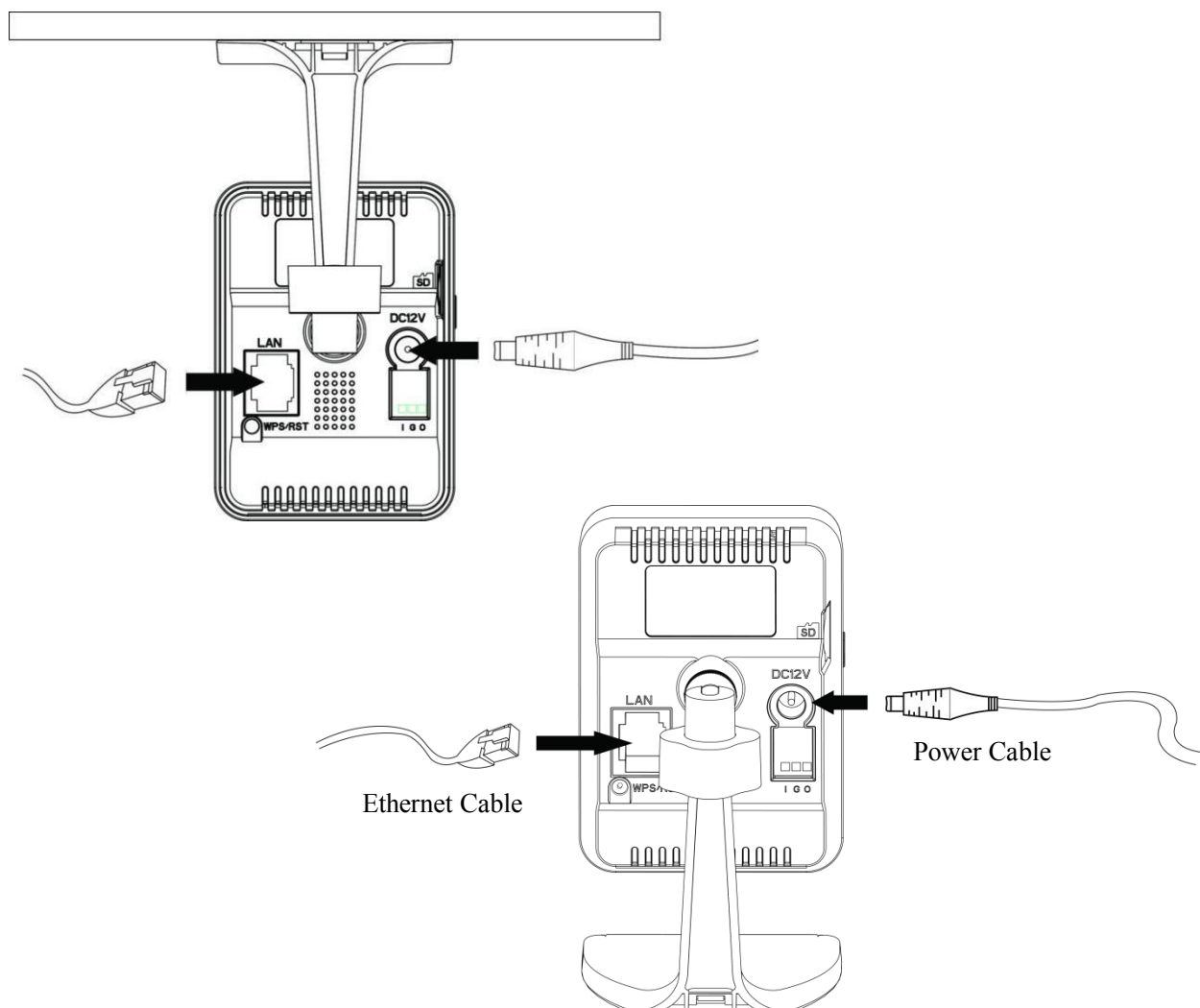


4. Wi-Fi Mini Cube Network Camera

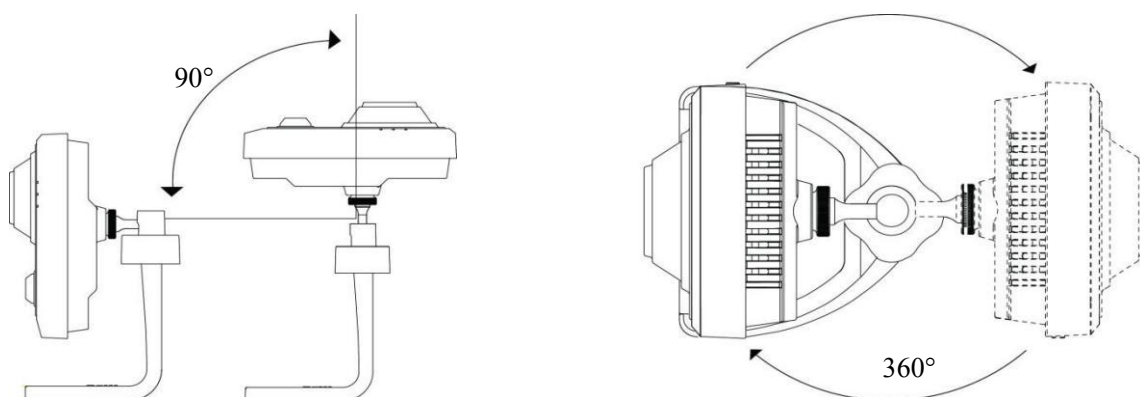
Step1: Mount the cube camera to the ceiling or wall, or place the cube camera horizontally;



Step2: Connect the power adapter and Ethernet cable;

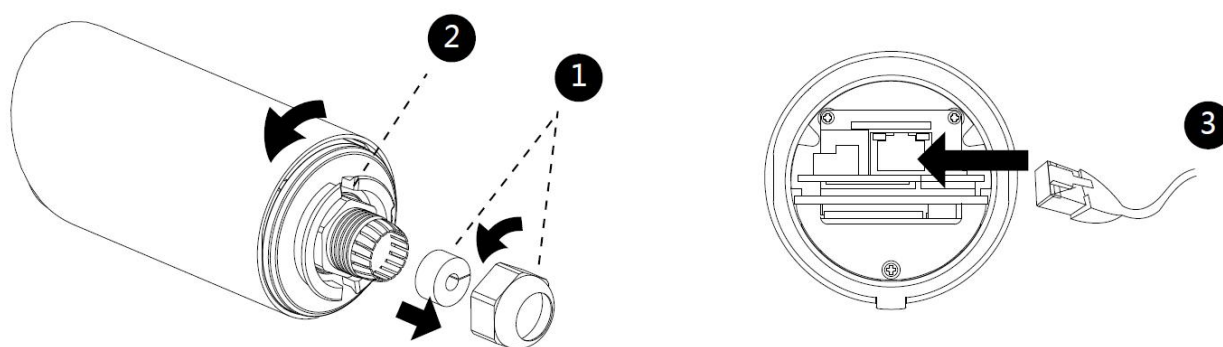


Step3: Adjust the shooting direction;

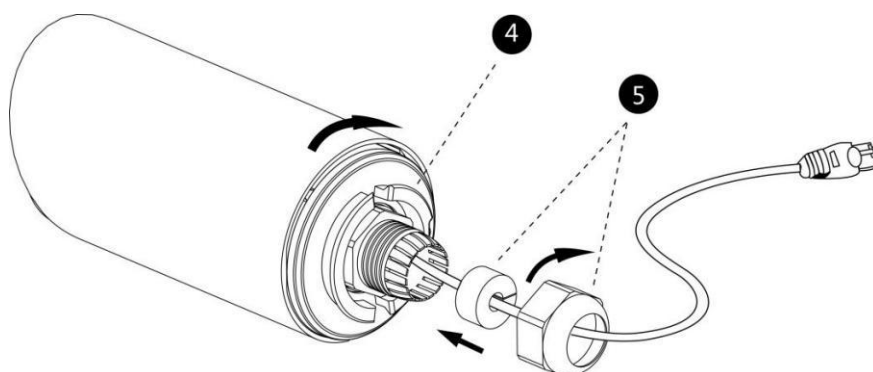


5. Mini Bullet Network Camera

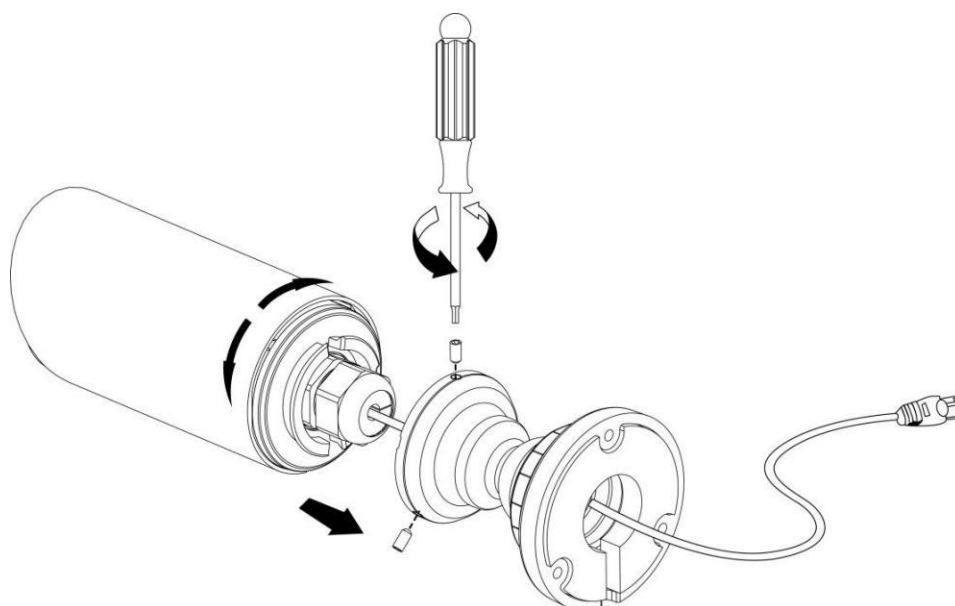
- Step1: Loosen the waterproof connector, and then remove the rubber seal, and the waterproof connector;
- Step2: Loosen and open the rear cover;
- Step3: Install a Micro SD/SDHC/SDXC card, connect an Ethernet cable and pass it through the rubber seal.



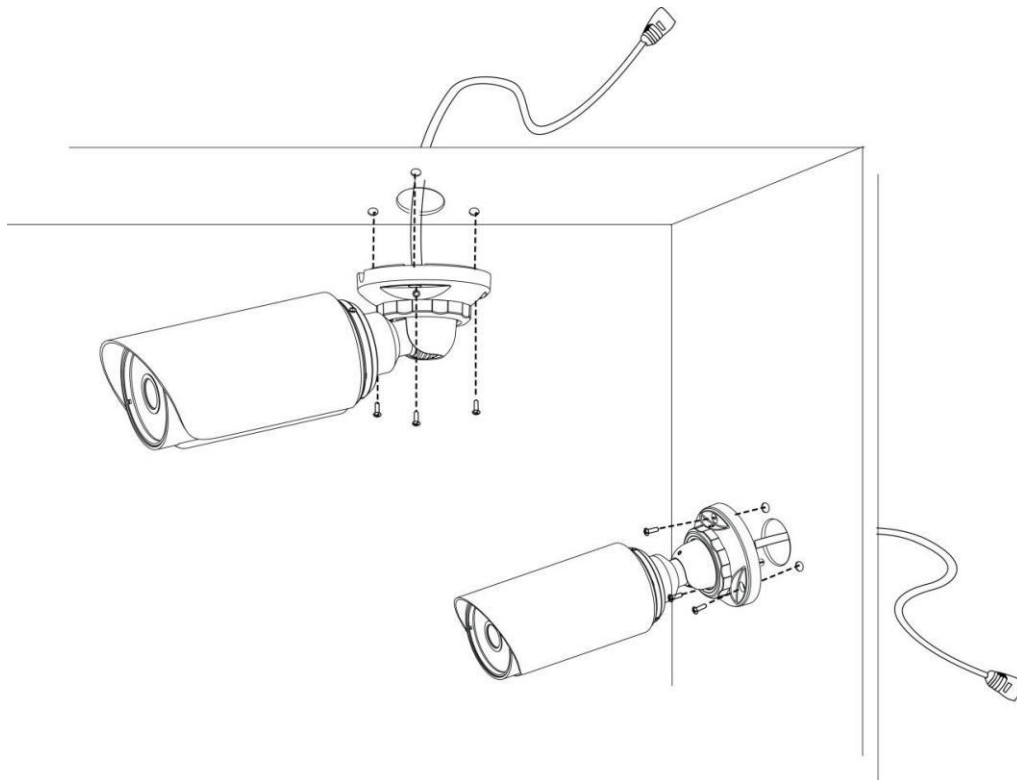
- Step4: Install and tighten the rear cover;
- Step5: Tighten the rubber seal, seal clamp, and cap nut of the waterproof connector;



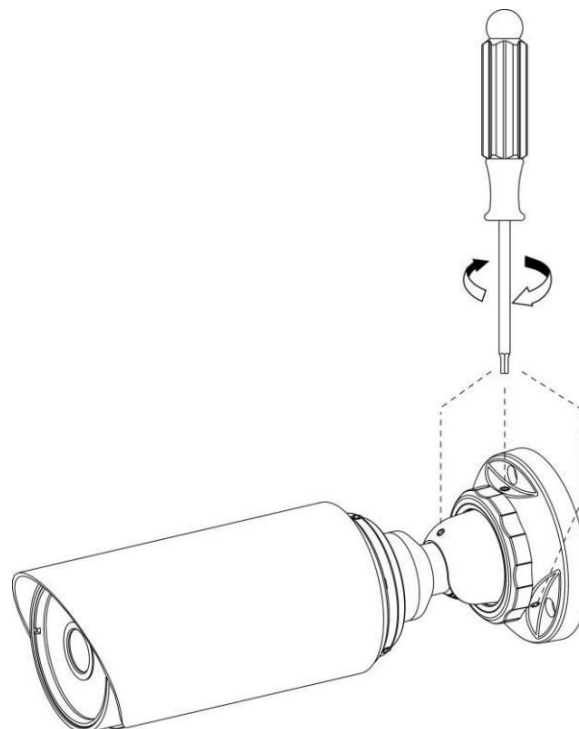
- Step6: Pass the Ethernet cable through the center of the mount bracket, put the bracket and camera together, rotate the bracket and fasten the bracket using screws;

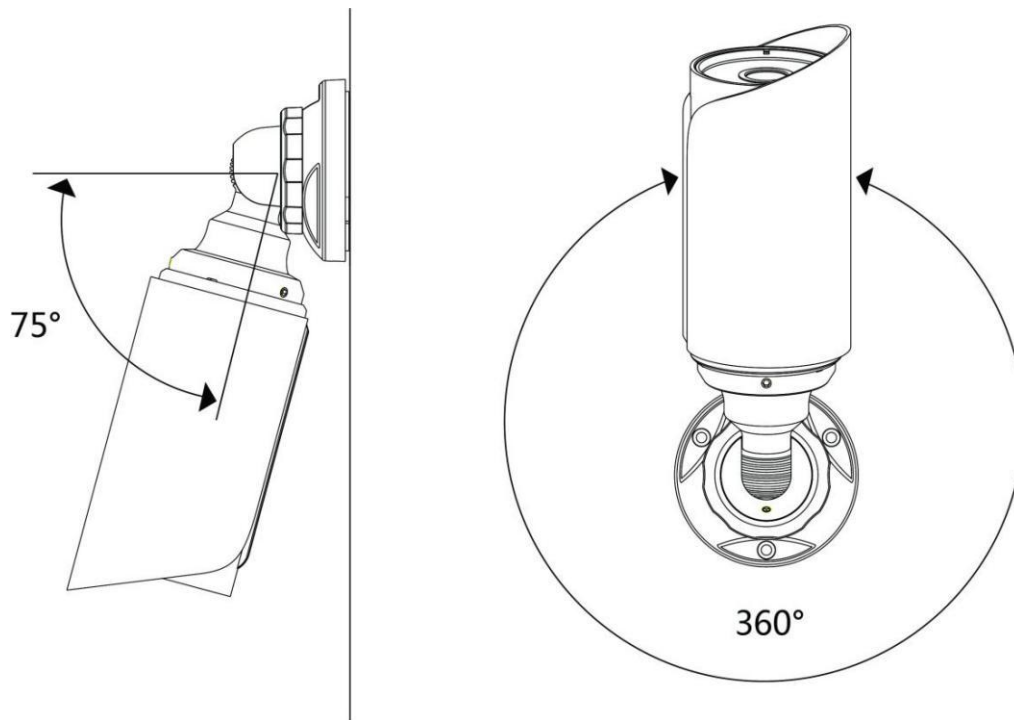


Step7: Mount the camera to the ceiling or wall;



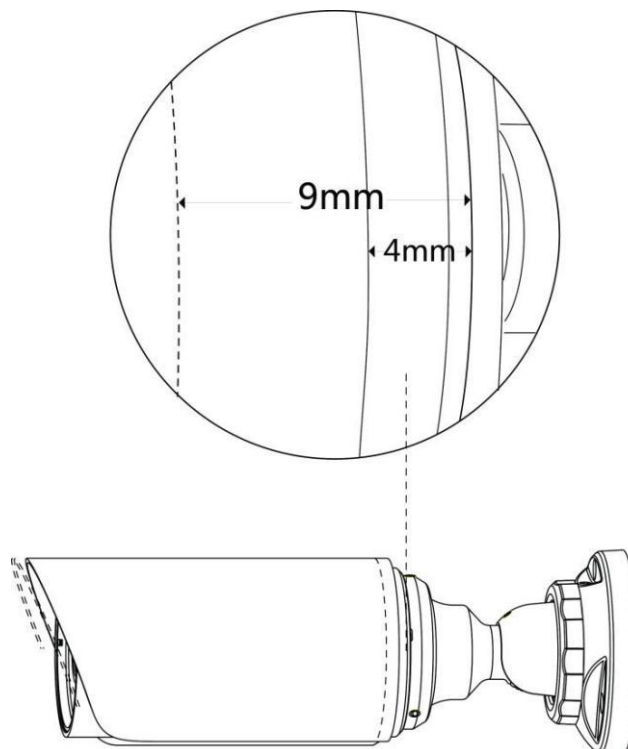
Step8: Adjust the shooting direction;





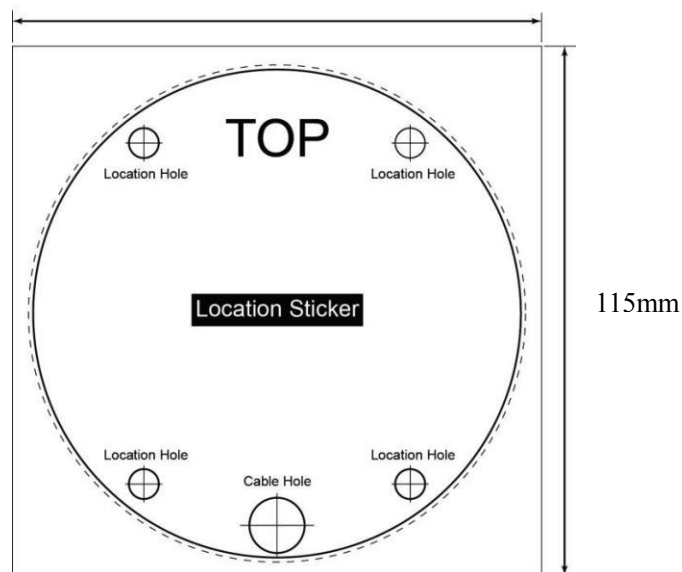
Note:

- 1) The upper cover of the mini bullet camera could only be moved forward for 5mm at most to ensure better field of view.

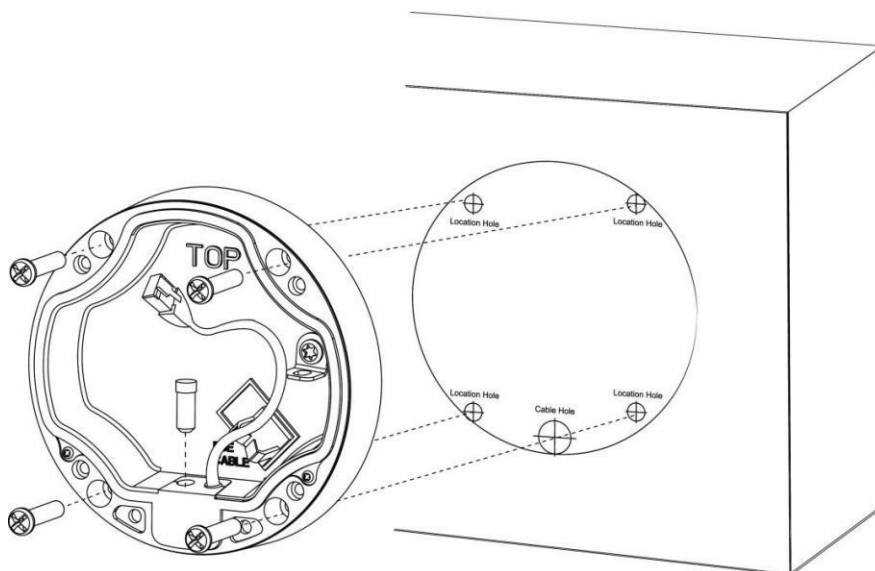


6. Pro Bullet Network Camera

Step1: Fix a sticker in the position where you want to install your camera;

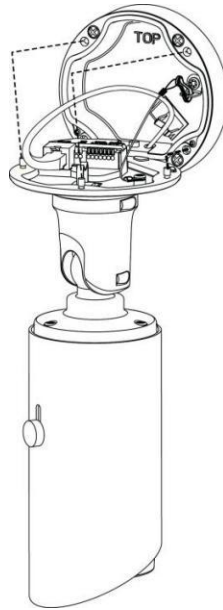


Step2: Pass the Ethernet cable through the rear cover and fasten the rear cover to the ceiling or wall;

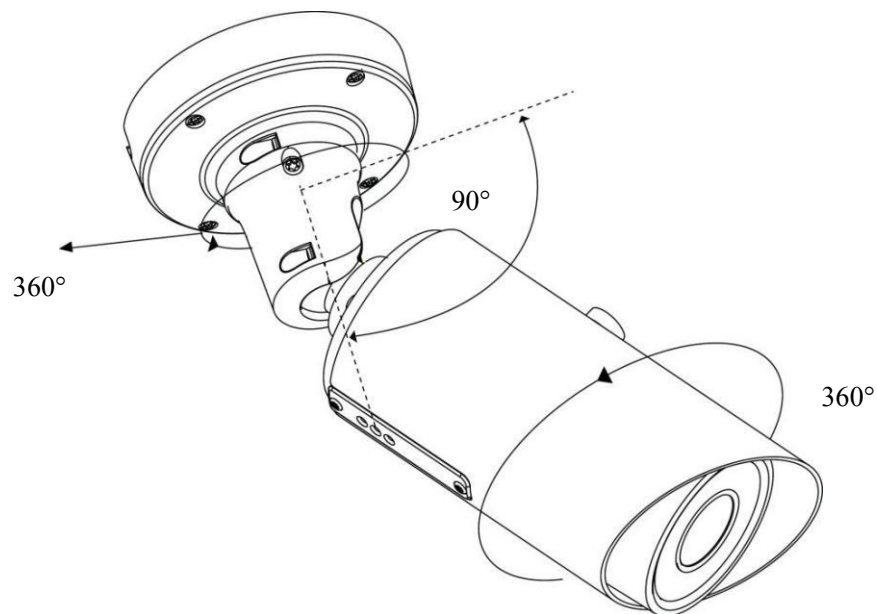


Step3: Connect an Ethernet cable and hook for your camera with a hang rope;

Step4: Install and tighten the rear cover and fasten the bracket to the camera using 4 plum flower head screws;

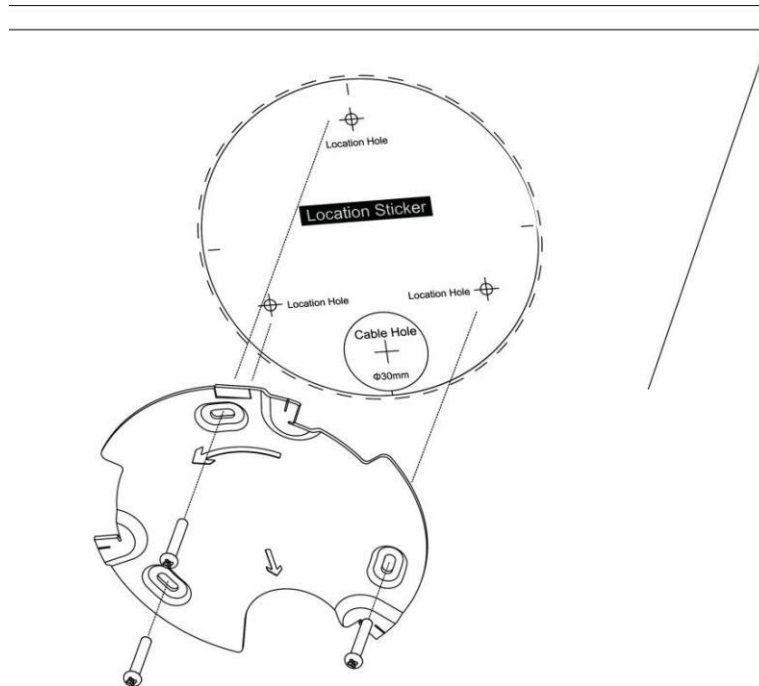


Step5: Adjust the shooting direction;

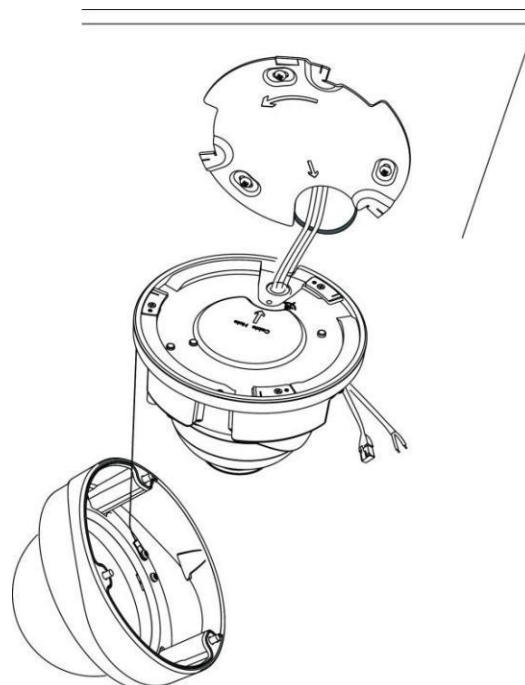


7. Pro Dome Network Camera

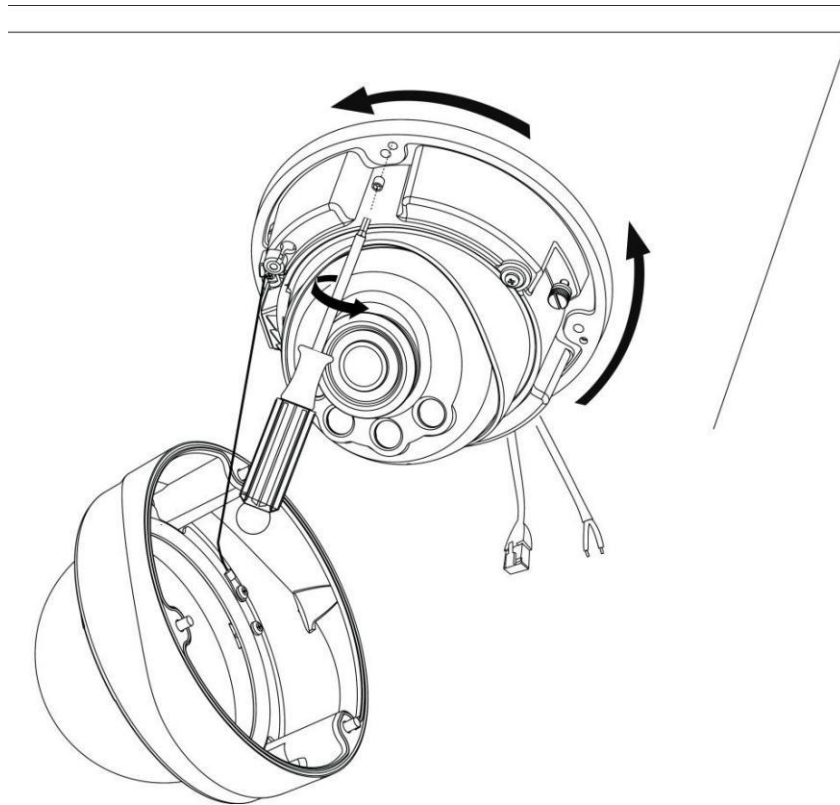
Step1: Fix a sticker in the position where you want to install your camera. Install the supplied bracket on the ceiling or wall, secure the screws;



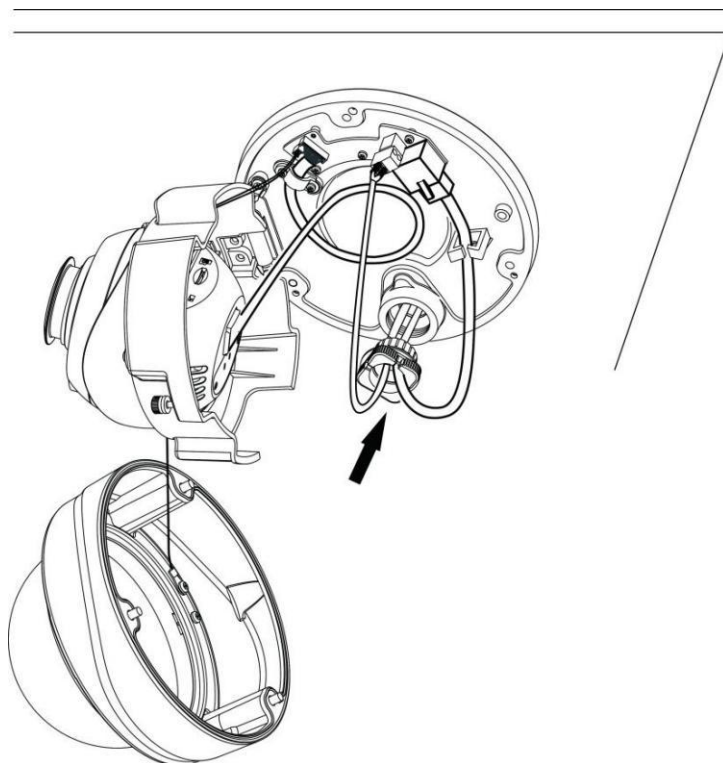
Step2: Connect an Ethernet and pass it through the rubber seal;



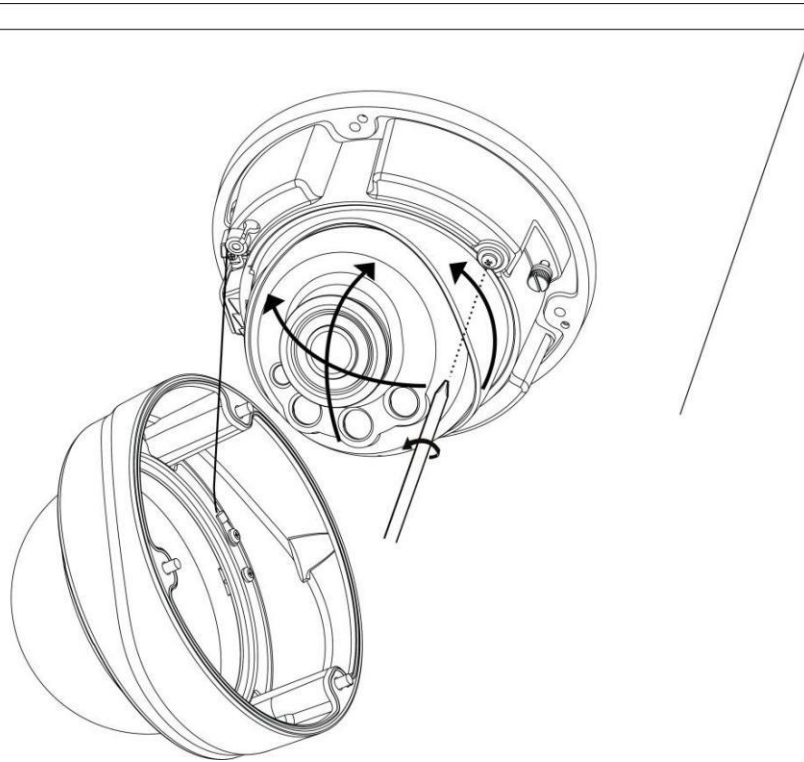
Step3: Rotate the camera unit according to the direction shown in the picture, and then attach the camera unit to the bracket with the supplied screws;



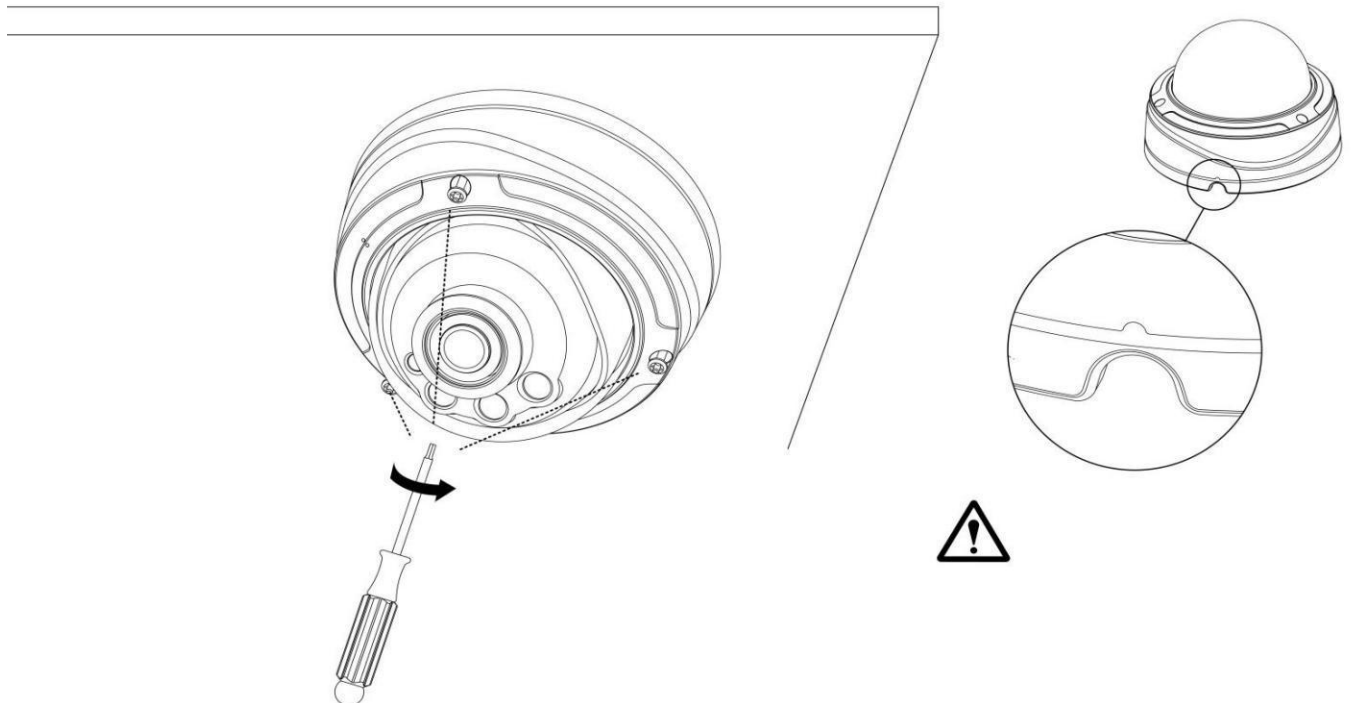
Step4: Connect and route an Ethernet cable and the power source through the ceiling or wall, then attach the camera unit to the bracket;



Step5: Loosen the camera head fixing screw. Adjust the camera to turn the lens in the desired direction. Tighten the camera head fixing screw to fix the camera;

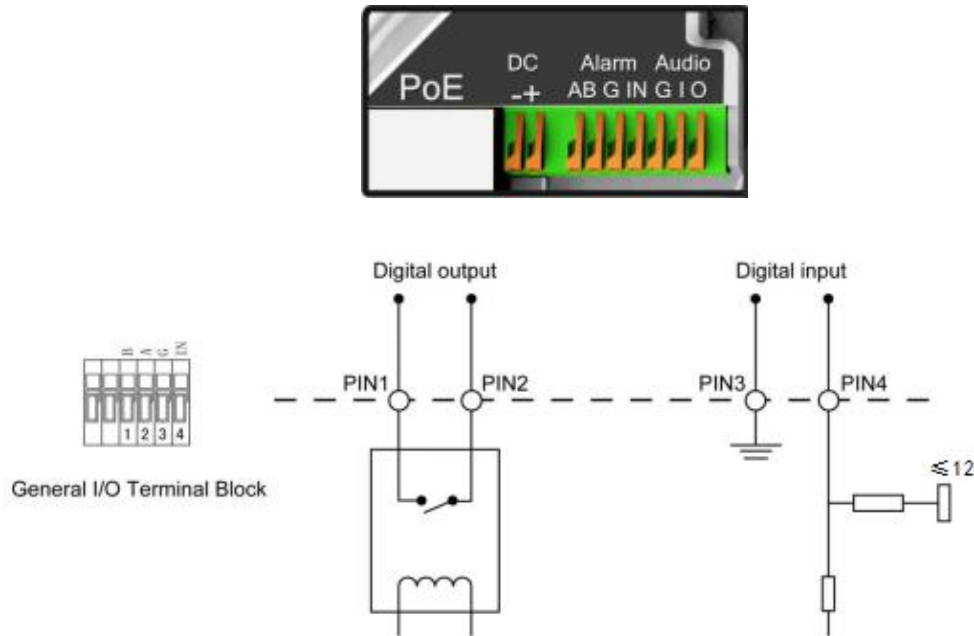


Step6: Attach the dome cover;



1.5 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 24VDC 1A

PIN2: Alarm Output NC/NO 24VDC 1A

PIN3: Alarm Input NO/NC $\leq 12V$

PIN4: Alarm Input NO/NC $\leq 12V$

1.6 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.

Chapter II Network Connection

2.1 Setting the Camera over the LAN

Connecting the camera to a switch or a router is the most common connection method. The camera must be assigned an IP address that is compatible with its LAN.

2.1.1 Connect the Camera to the PC Directly

In this method, only the computer connected to the camera will be able to view the camera. The camera must be assigned a compatible IP address to the computer. Details are shown as the following figure.

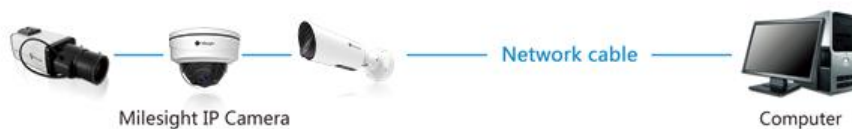


Figure 2-1-1 Connect the camera to the PC directly

2.1.2 Connect via a Switch or a Router

Refer to the following figure to set network camera over the LAN via the switch or router.

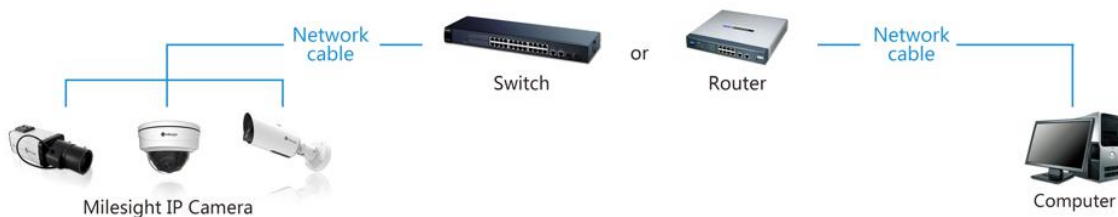


Figure 2-1-2 Connect via a switch or a Router

2.2 Dynamic IP Connection

◆ Connecting the network camera via a router

Step1: Connect the network camera to a router;

Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;

Step3: On the router, set port forwarding. E.g. 80, 8000 and 554 ports. The steps for port forwarding vary depending on different routers. Please look up the router's user manual for assistance with port forwarding;

Step4: Apply a domain name from a domain name provider;

Step5: Configure the DDNS settings in the setting interface of the router;

Step6: Visit the camera via the domain name.



Figure 2-2 Connect the network camera via a router using dynamic IP

Chapter III Accessing the Network Camera

3.1 Assigning An IP Address

The 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.

3.1.1 Assigning An IP Address Using Smart Tools

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

Step1: Install Smart Tools (The software could be downloaded from our website);

Step2: Start Smart Tools, click the IPC Tools page, then enter the device information including IP address, MAC address, Port number, Netmask, and Gateway of all Milesight network cameras will be displayed. Details are shown as Figure 3-1-1;

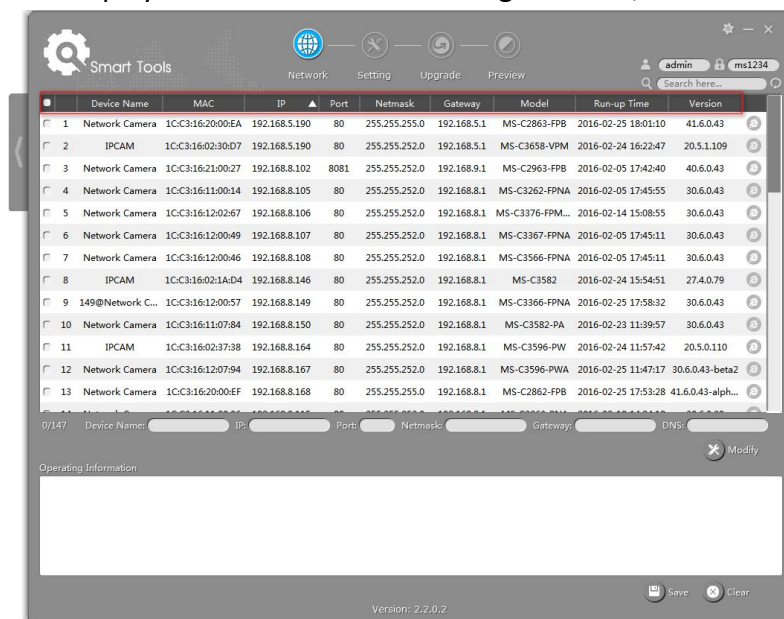


Figure 3-1-1 Smart Tools

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

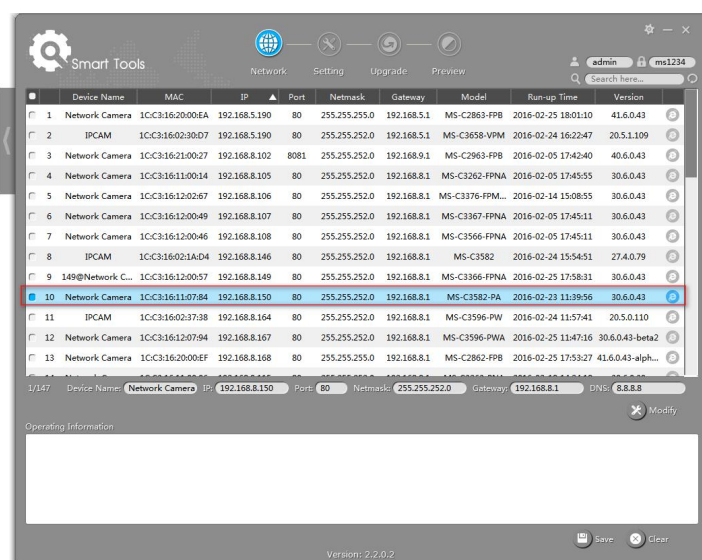


Figure 3-1-2 Select single camera

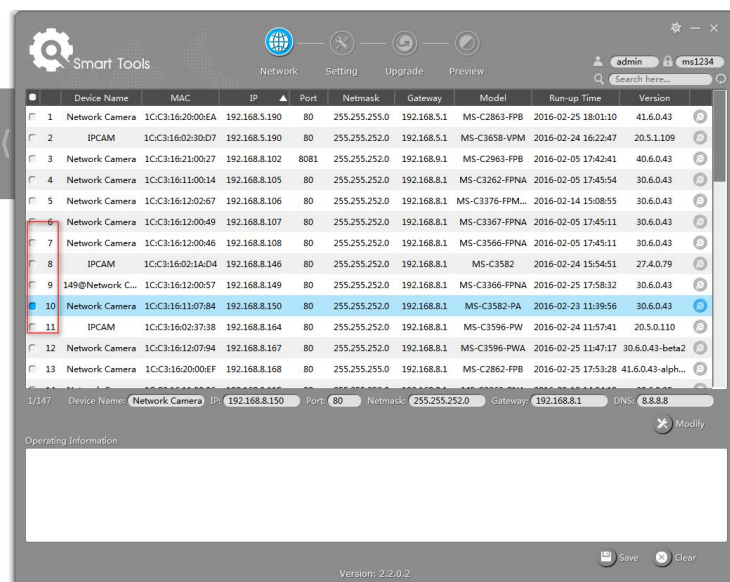


Figure 3-1-3 Select multiple cameras

Step4: Type the User Name and Password (if they are not the default value.);

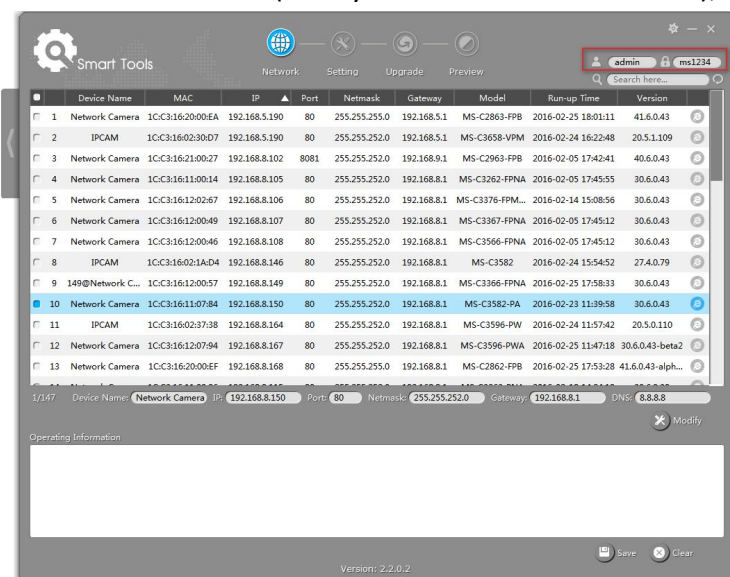


Figure 3-1-4

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

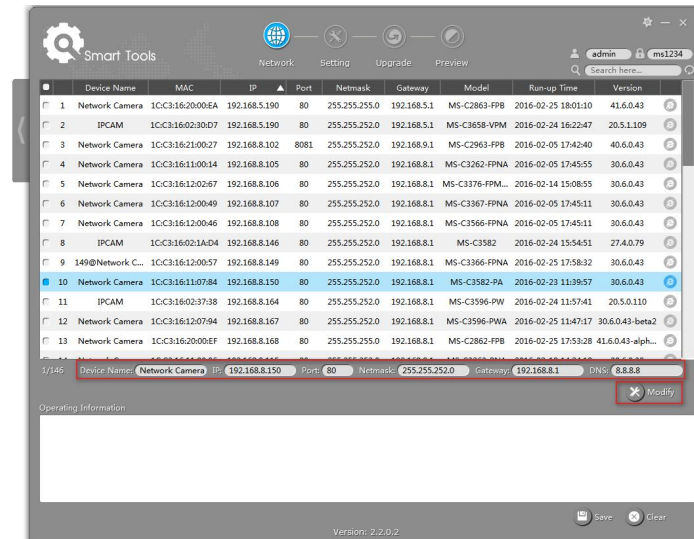


Figure 3-1-5

Step6: Change the IP address successfully;

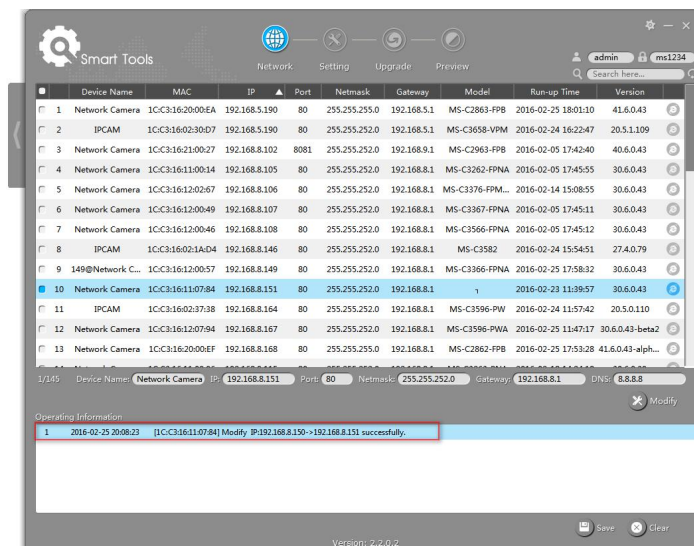


Figure 3-1-6 Change IP address successfully

Step7: By clicking the browser icon, you can access the camera via web browser directly. The Internet Explorer window will pop up.

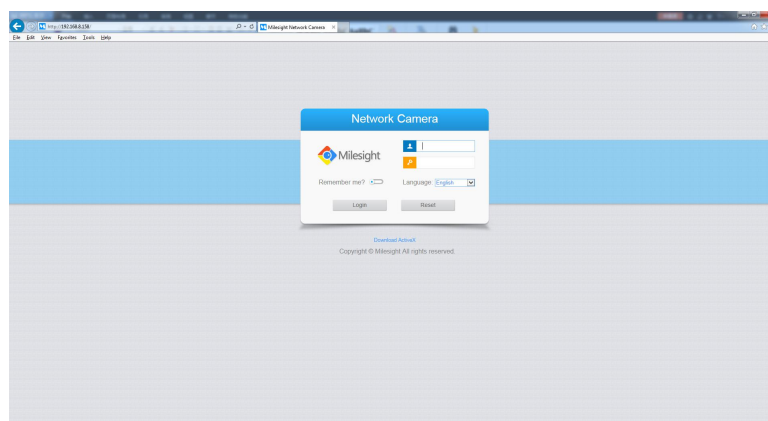


Figure 3-1-7

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

3.1.2 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 following:

- a. Start → Control Panel → Network and Internet Connection → Network Connection → Local Area Connection, and double click it. (Refer to Figure 3-1-8);

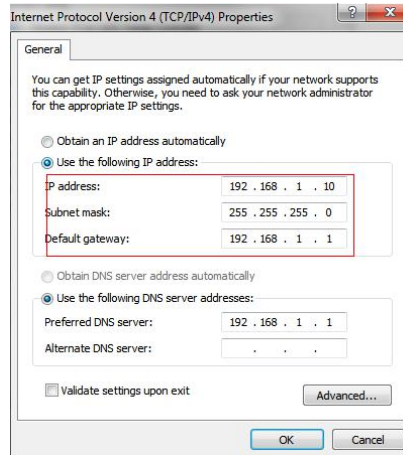


Figure 3-1-8

- b. Click “Advanced”, and then click “IP settings” → “IP address” → “Add” (See Figure 3-1-9). 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);

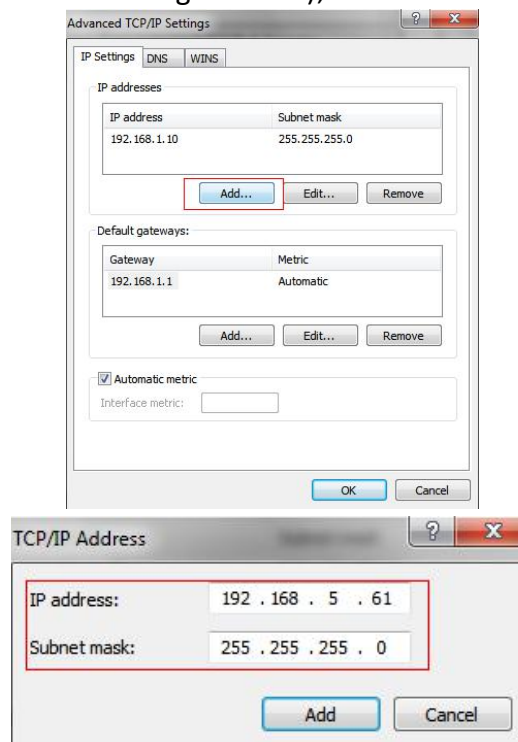


Figure 3-1-9

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**

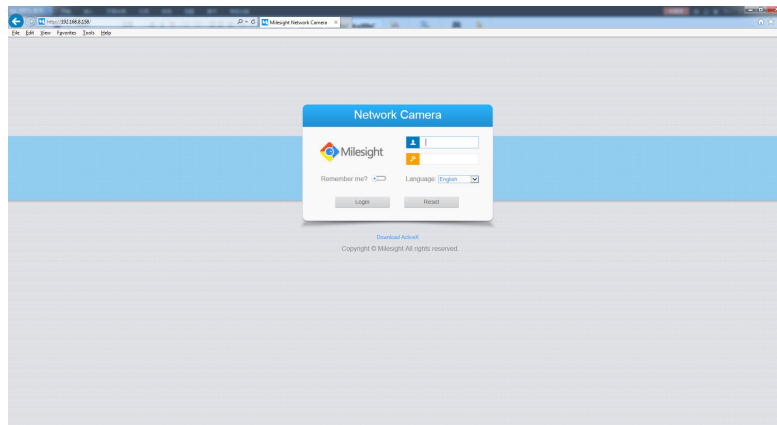


Figure 3-1-10

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

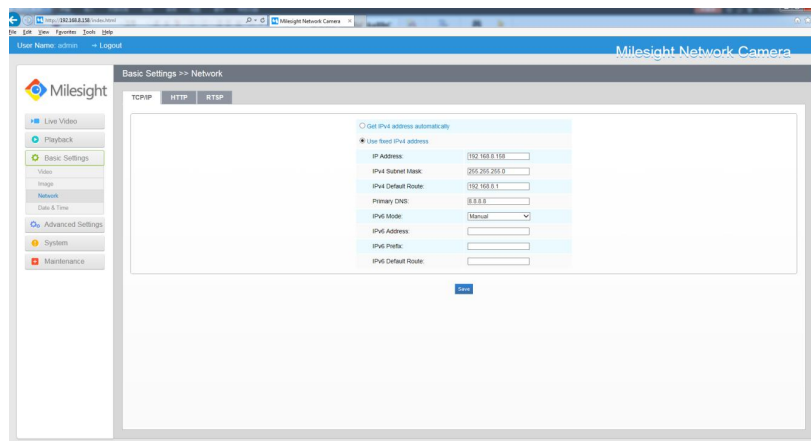


Figure 3-1-11

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

Step6: The change of default IP address is completed.

3.2 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.

3.2.1 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 3-2-1.

Click here to download and install controls manually

Figure 3-2-1

Note:

1) 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 3-2-2. Please click "Finish" and refresh the browser, then you will see the video.

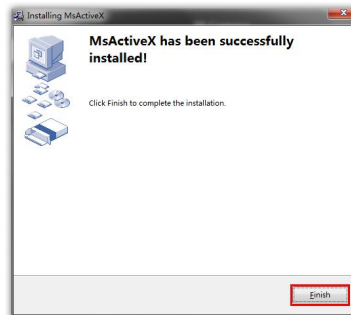


Figure 3-2-2

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";

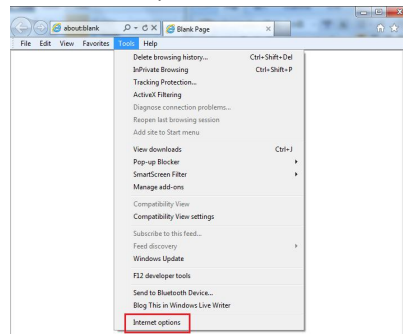


Figure 3-2-3

Step2: Select "Security" to "Trusted";

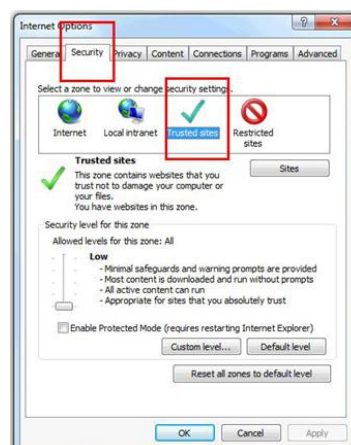


Figure 3-2-4

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

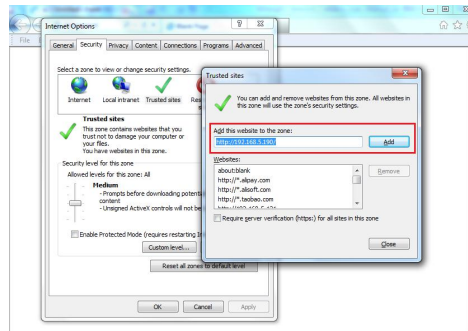


Figure 3-2-5

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

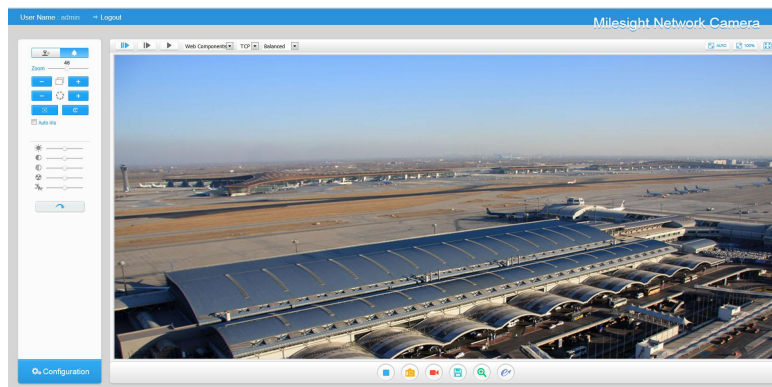


Figure 3-2-6

3.3 Accessing from Milesight VMS (Video Management Software)

Milesight VMS(ONVIF compatible) is a handy and reliable application designed to work with network cameras in order to provide video surveillance, recording settings and event management functions. The interface of Milesight VMS is very easy to use, intuitive, with easy access to the most common activities, such as viewing live video, searching through recordings and exporting videos and snapshots. It's able to be integrated with other devices through ONVIF. It is designed to work on Windows XP/7/8/Vista/ Server 2000/ Server 2008. The software could be downloaded from our website www.milesight.com.

Please install Milesight VMS; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to user manual of Milesight VMS.

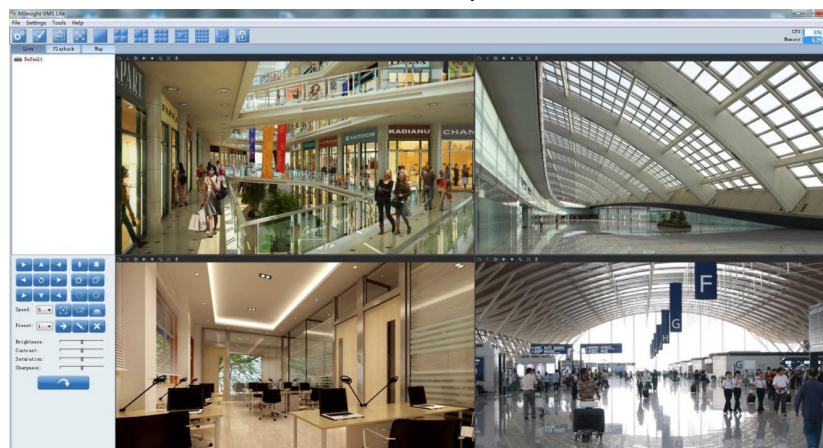


Figure 3-3-1

Chapter IV System Operation Guide

4.1 Live Video

After logging in the network camera web GUI successfully, user is allowed to view live video as follows.

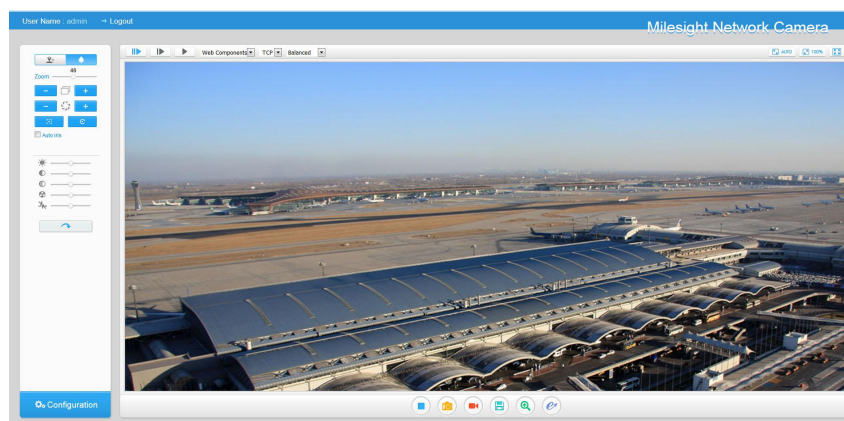



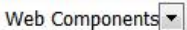






















Figure 4-1-1 Live view interface

Table 4-1-1 Description of the buttons

No.	Parameter	Description
1	 PTZ Control	Navigation key is used to control the direction. The rotation key is used for auto-rotation under the E-PTZ mode
	PTZ Speed	PTZ rotation speed control
2	Image Adjustment	Brightness: A brighter scene appears, if a higher level of brightness is chosen
		Contrast: The difference in color and light between parts of an image
		Saturation: A more vivid scene appears, if a higher level of saturation is chose
		Sharpness: Make image more sharp
		Noise Reduction Level: Adjust the noise reduction level
3	 Configuration	Default Settings: Restore brightness, contrast and saturation to default settings
		Click to access the configuration page
4		Choose the Stream (Primary/Secondary/Third) to show on the current video window

5		<p>Only available for camera whose software version is 43 or above</p> <p>Web Components: Support Firefox, Safari, Chrome (Chrome version 44 or below); need to install the component to display the view;</p> <p>MJPEG: Support to display the view on Firefox, Safari, Chrome (Chrome version 45 or above);</p> <p>(NOTE: IE choose Web Components mode for default, in this case, it will not show the options)</p>
6		<p>TCP: More reliable connection;</p> <p>UDP: More instantaneous connection, but if you cannot get the live view successfully, please turn into TCP connection;</p>
7		<p>Least Delay: Most instantaneous mode in the three modes;</p> <p>Balanced: Combine the fluent with timely characters;</p> <p>Best Fluency: Most fluent mode in the three modes;</p>
8	 Window size	Click to display images at a window size
9	 Real size	Click to display images at a real size
10	 Full Screen	Click to display images at full-screen
11	 Recording	When recording, the icon will turn red
12	 Alarm	When an alarm causes recording, the icon will turn red
		Adjust the Zoom length of the lens (Only work when your camera is equipped with motorized lens)
		Adjust focus of the lens (Only work when your camera is equipped with motorized lens)
		Adjust the size of IRIS (Only work when your camera is equipped with motorized lens)
		Auxiliary Focus and Lens Initialization (Only work when your camera is equipped with motorized lens)
		Adjust iris automatically if check this box (Only work when your camera is equipped with P-Iris)
14		Start/Stop live view
15		Click to capture the current image and save to the configured path. The default path is

	Capture	C:\VMS\+-1\ IMAGE-MANUAL
16	 Start Recording	Click to start recording video and save to the configured path. The default path is C:\VMS\+-1\MS_Record. Click again to stop recording
17	 Play Audio	Enable Audio Input/Output. It can also be set in Audio configuration page
18	 Saving Path Settings	Set the saving path for captured images and video recordings of operating on the live view
19	 Enable Zoom	When enabled, you can zoom in in a specific area of video image with your mouse wheel
20	 E-PTZ	Able to use PTZ to move the position

4.2 Playback

This section explains how to view the remotely recorded video files stored in SD cards.

Step1: Click [Playback] on the menu bar to enter playback interface.

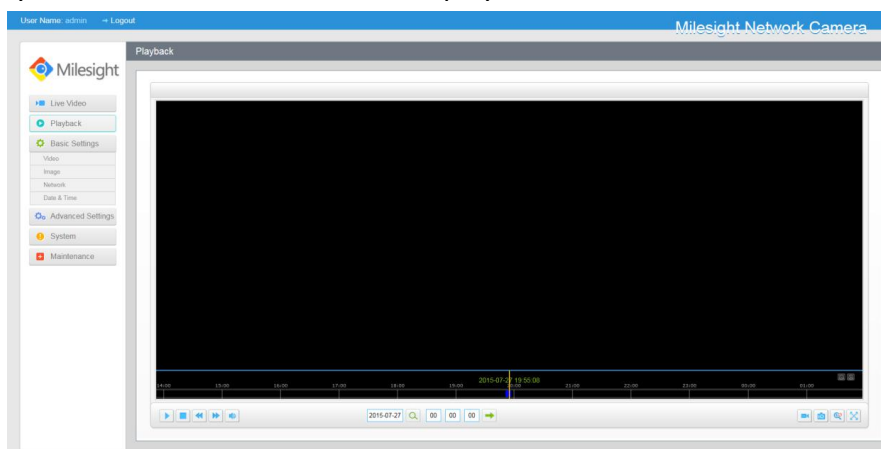


Figure 4-2-1 Playback interface

Step2: Click the date button, choose the date when date window pops up;

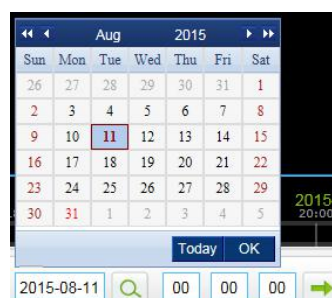



Figure 4-2-2 Search Video

Note:

1) The date with bright red means there is recorded file in this day; one with dark red means

weekend day; one with blue background means the date is selected now.

Step3: Click  to play the video files found on this date.

The toolbar on the bottom of playback interface can be used to control playing progress.

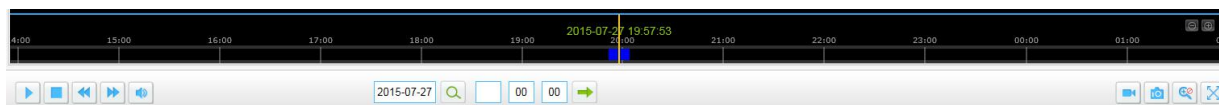




Figure 4-2-3 Playback Toolbar

Table 4-1-2 Description of the buttons

Button	Operation
	Play
	Pause
	Stop
	Slow Forward
	Fast Forward
	Audio On/Off
	Search
	Go To
	Time Narrow/Expand
	Start/Stop Recording
	Snapshot
	Zoom On/Off
	Full Screen

Note:



- 1) Drag the progress bar with the mouse to locate the exact playback point. You can also input the time and click  to locate the playback point in the *Set Playback Time* filed. You can also click  to zoom out/in the progress bar.



Figure 4-2-4 Set Playback Time

4.3 Basic Settings

4.3.1 Video

Stream parameters can be set in this module, adapting to different network environments and demands.

Primary Stream Settings

Basic Settings >> Video

Primary Stream

Secondary Stream

Third Stream

Video Codec:

H.264

Frame Size:

1080P(1920*1080)

Maximum Frame Rate:

25

fps

Bit Rate:

4096

kbps

Bit Rate Control:

CBR

Profile:

Main

I-frame Interval:

50

frame(1-120)

Figure 4-3-1 Primary Stream Settings

Secondary Stream Settings

Basic Settings >> Video

Primary Stream

Secondary Stream

Third Stream

Enable:

☒

Video Codec:

H.264

Frame Size:

640*480

Maximum Frame Rate:

25

fps

Bit Rate:

1024

kbps

Bit Rate Control:

CBR

Profile:

Base

I-frame Interval:

50

frame(1-120)

Figure 4-3-2 Secondary Stream

Third Stream Settings

Basic Settings >> Video

Primary Stream

Secondary Stream

Third Stream

Enable:

☒

Video Codec:

H.264

Frame Size:

640*480

Maximum Frame Rate:

25

fps

Bit Rate:

1024

kbps

Bit Rate Control:

CBR

Profile:

Main

I-frame Interval:

50

frame(1-120)

Figure 4-3-3 Third Stream

Table 4-3-1 Description of the buttons

Parameters	Function Introduction
------------	-----------------------

Video Codec	There are difference for the camera with “-A” and “-B” -A: H.264/MJPEG available -B: H.265/H.264/MJPEG available
Frame Size	Options include 4M(2592*1520), 3M(2304*1296), 3M(2048*1536), 1080P(1920*1080), 2M(1600 *1200), 1.3M(1280*960), 720P(1280*720), D1 (704*576)
Maximum Frame Rate	Maximum refresh frame rate of per second
Bit Rate	Transmitting bits of data per second, this item is optional only if you select the H.265/H.264
Bit Rate Control	CBR: Constant Bitrate. The rate of CBR output is constant
	VBR: Variable Bitrate. VBR files vary the amount of output data per time segment
Profile	The option is for H.264, Main/High can be selected according to your needs.
I-frame Interval	Set the I-frame interval to 1~120, 50 for the default. This item is optional only if you select the H.265/H.264. The number must be a multiple of the number of frames.
JPEG Quality	Low/Medium/High/Higher are available, this item is optional only if you select the MJPEG

Note:

- 1) The options of [Frame Size] are variable according to the model selected.

4.3.2 Image

Display information, enhancement of image and Day/Night setting can be set in this module. OSD (On Screen Display) content and video time can be displayed to rich the image information.

Display

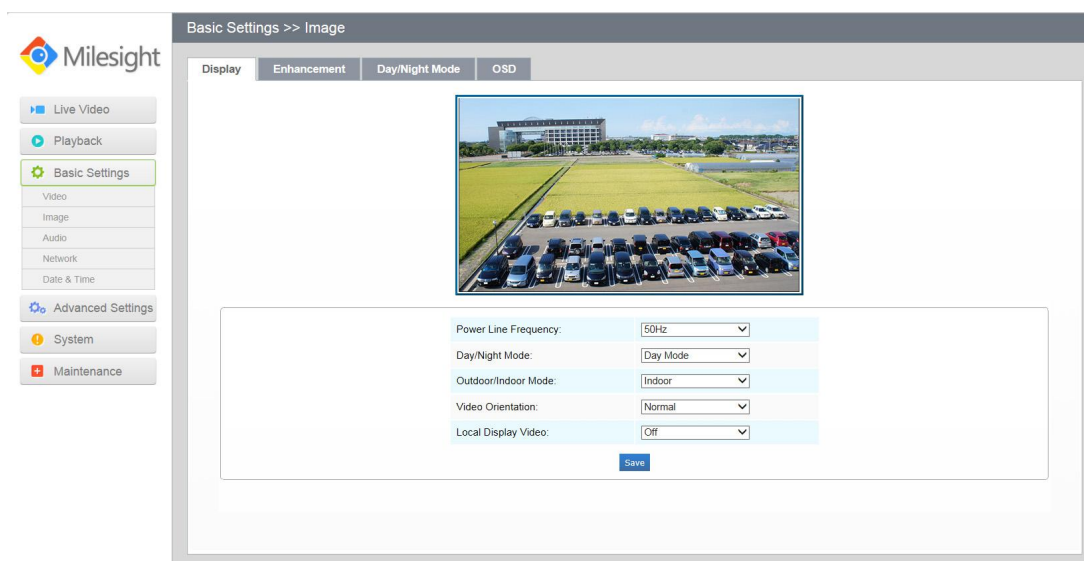


Figure 4-3-4 Display

Table 4-3-2 Description of the buttons

Parameters	Function Introduction
Power Line Frequency	60HZ flicker for NTSC mode and 50HZ flicker for PAL mode
Day/Night Mode	<p>There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with this mode</p> <p>Night Mode: Shown in live view based on Night Mode settings</p> <p>Day Mode: Shown in live view based on Day Mode settings</p> <p>Auto Mode: Shown in live view based on environment, set the sensitivity for switching Day Mode to Night Mode, or Night Mode to Day Mode</p> <p>Customize: Shown in live view based on your own settings' time to start/end Night Mode</p>
Day To Night Value	This is the sensitivity for switching Day Mode to Night Mode . When IR Light Sensor Current Value is lower than this value, it will switch Day Mode to Night Mode
Night To Day Value	This is the sensitivity for switching Night Mode to Day Mode . When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode
IR Light Sensor Current Value	The current value of the IR light sensor
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs
Video Orientation	<p>There are six options available, you can select one to meet your need</p> <p>Normal: Remain the image in normal direction</p> <p>Flip Horizontal: Flip the image horizontally</p> <p>Flip vertical: Flip the image vertically</p> <p>Rotating 90°: The images is presented rotating 90°</p> <p>Rotating 180°: The images is presented upside down</p> <p>Rotating 270°: The images is presented rotating 270°</p>

Enhancement

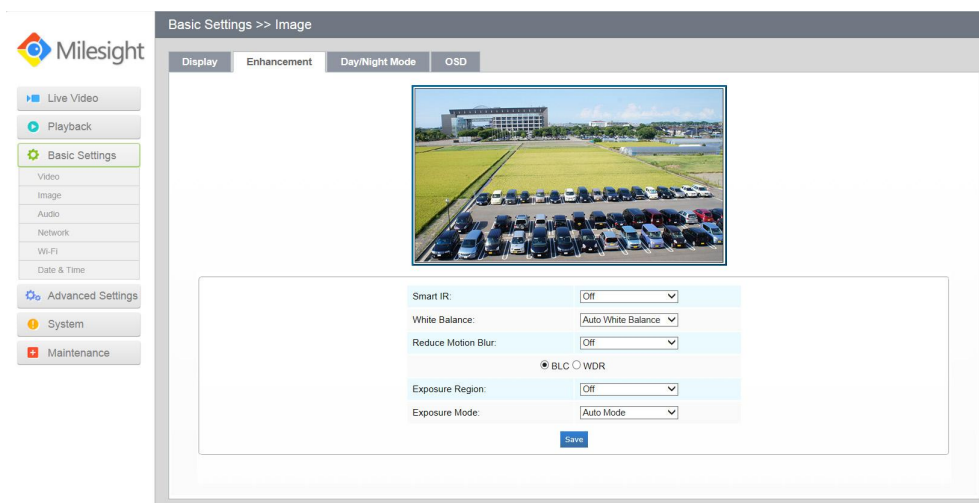


Figure 4-3-5 Enhancement (H.264 series)

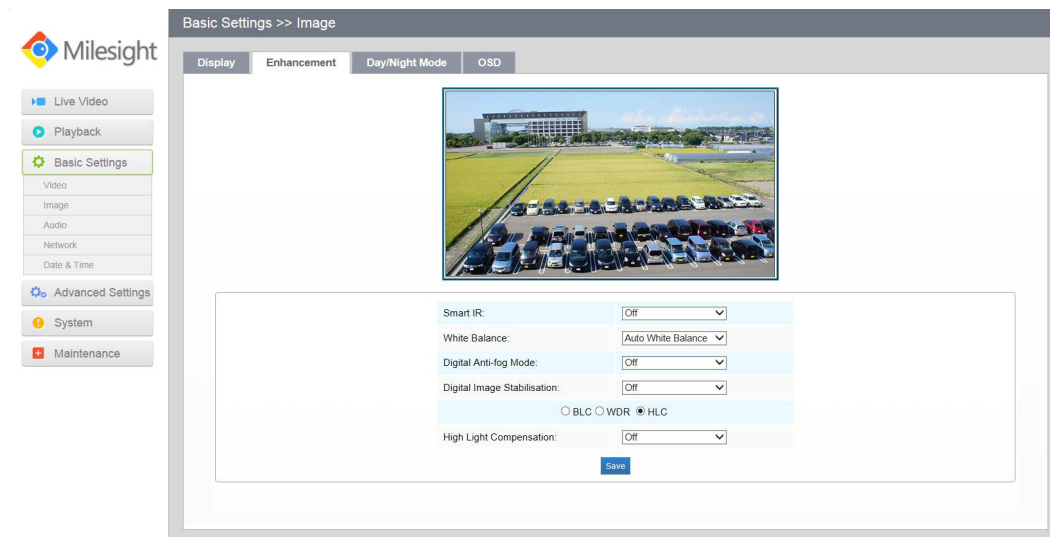


Figure 4-3-6 Enhancement (H.265 series)

Table 4-3-3 Description of the buttons

Parameters	Function Introduction
Smart IR	There is an option to turn On/Off the IR LED. Select smart IR on, and the IR LED changes according to the actual illumination.
White Balance	<p>To restore white objects, removed color distortion because of the light of the environment</p> <p>Auto White Balance: This option will automatically enable the White Balance function</p> <p>Manual White Balance: This option is only for H.265 series, set Red Gain Level and Blue Gain Level manually.</p> <p>Incandescent Lamp: Select this option when light is similar with incandescent lamp</p> <p>Warm Light Lamp: Select this option when light is similar with warm light lamp</p> <p>Natural Light: Select this option when there is no else light but natural light</p> <p>Fluorescent Lamp: Select this option when light is similar with Fluorescent Lamp</p>
Reduce Motion Blur	This function is only for H.264 series, better image for moving objects, it may lead worse quality for still objects
Digital Anti-fog Mode	This function is only for H.265 series, better image effect in foggy weather, refers to Figure 4-3-7
Digital Image Stabilisation	This function is only for H.265 series, better image effect when image shaking
Exposure Region (BLC)	<p>Off, Customize, and Centre are available, only enable when WDR is disable</p> <p>Off: Calculate the full range of view and offer appropriate light compensation</p> <p>Customize: This option enables you to add customized windows as inclusive or exclusive regions manually</p> <p>Centre: This option will automatically add an inclusive region in the middle of the window and give the necessary light compensation</p>
Exposure Mode (BLC)	Auto mode/Customize mode. If you choose customize mode, the camera adjusts the brightness according to the value you set. The higher the value, the brighter the image.

Wide Dynamic Range (WDR)	<p>This function enables the capture and display of both bright and dark areas in the same frame, there are details in both areas in this way</p> <p>Off: Disable WDR function</p> <p>On: Enable the WDR, there are Low/High/Auto three levels</p> <p>Customize: Customize the schedule to enable/disable the WDR function and set the levels with Low/High/Auto</p>
High Light Compensation (HLC)	<p>This function is only for H.265 series, adjust the brightness to a normal range when the light is strong, refers to Figure 4-3-8</p> <p>Off: Disable HLC function</p> <p>On: Enable the HLC, and there is a setting for HLC Level</p>

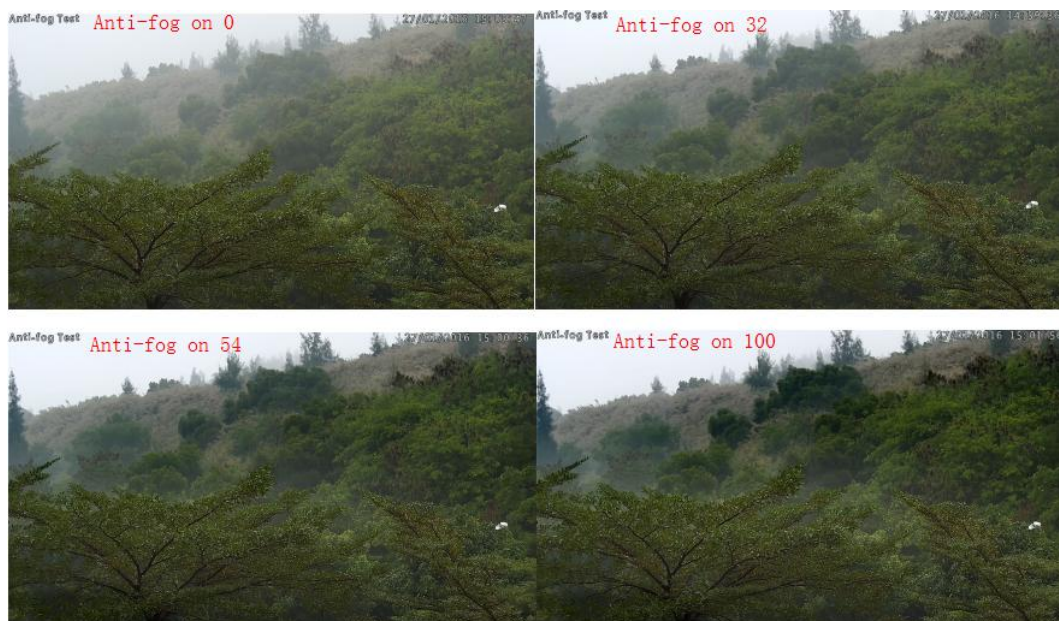


Figure 4-3-7 Anti-fog Image



Figure 4-3-8 HLC Image

Day/Night Mode

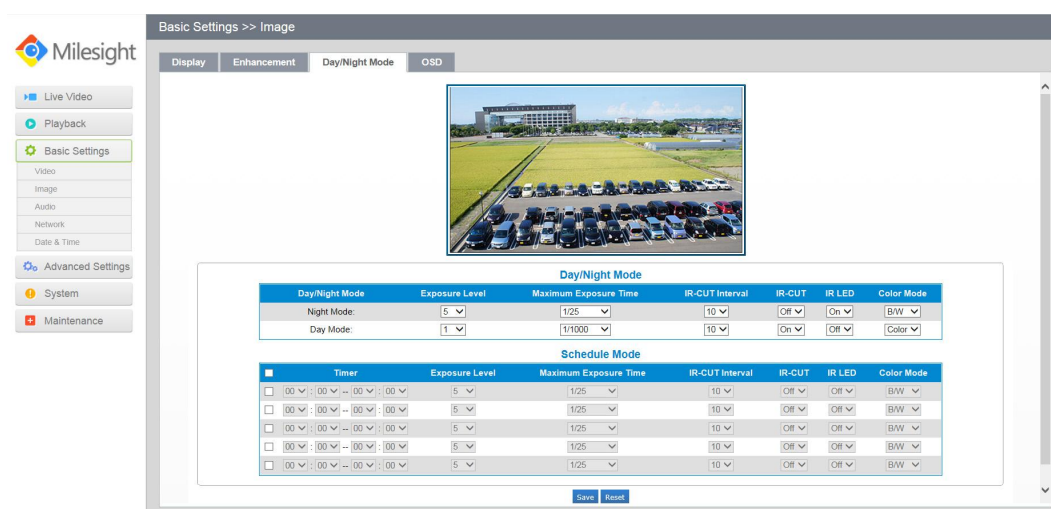


Figure 4-3-9 Day/Night Mode

Table 4-3-4 Description of the buttons

Parameters	Function Introduction
Exposure Level	Level 0~10 are available to meet your need
Maximum Exposure Time	Set the maximum exposure time to 1/5~1/100000
IR-CUT Interval	The interval to keep the mode from switching
IR-CUT	Choose to turn on or turn off under this mode
IR LED	Choose to turn on or turn off under this mode
Color Mode	Select B/W or Color mode under Day/Night mode
Schedule Mode	Here you can customize your special demands for different time, then the Day mode and Night mode will switch automatically according to your settings

On Screen Display(OSD)

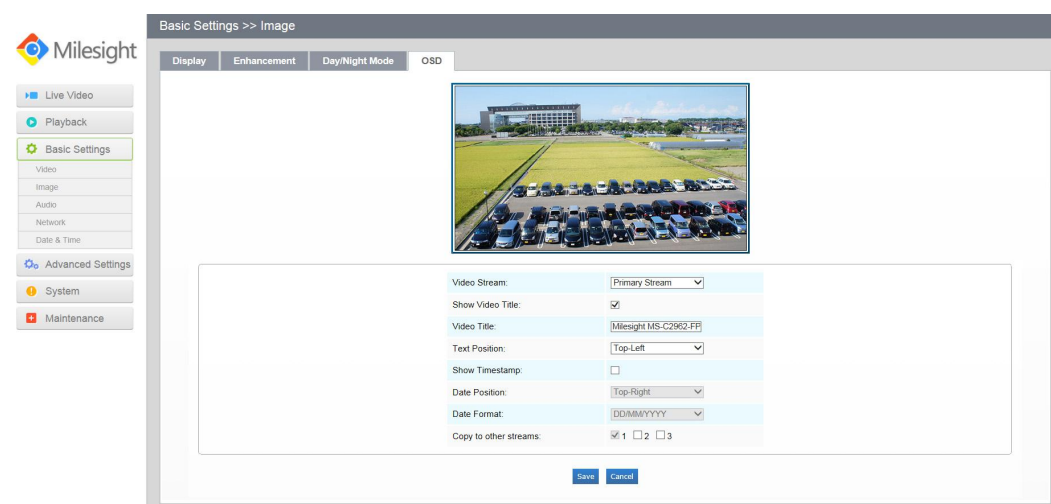


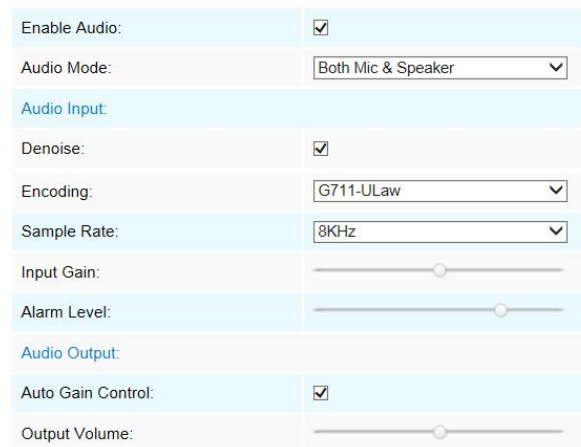
Figure 4-3-10 OSD

Table 4-3-5 Description of the buttons

Parameters	Function Introduction
Show Video Title	Check the checkbox to show video title
Video Title	OSD content customized
Text Position	OSD display position on the image
Show Timestamp	Check the checkbox to display date on the image
Date Position	Date display position on the image
Date Format	The format of date
Copy to other streams	Copy the settings to other streams

4.3.3 Audio

This audio function allows you to hear the sound from the camera or transmit your sound to the camera side. A two-way communication is also possible to be achieved with this feature. Alarm can be triggered when the audio input is above a certain alarm level you set, and configured audio can be played when an alarm occurs.



The screenshot shows the 'Audio' configuration page. It includes sections for 'Audio Input' and 'Audio Output'. Under 'Audio Input', there are checkboxes for 'Enable Audio' and 'Denoise', and dropdown menus for 'Audio Mode' (set to 'Both Mic & Speaker'), 'Encoding' (set to 'G711-ULaw'), and 'Sample Rate' (set to '8KHz'). There are also sliders for 'Input Gain' and 'Alarm Level'. Under 'Audio Output', there is a checkbox for 'Auto Gain Control' and a slider for 'Output Volume'.

Figure 4-3-11 Audio

Table 4-3-6 Description of the buttons

Parameters	Function Introduction
Enable Audio	Check on the checkbox to enable audio feature
Audio Input	<p>Denoise: Set it as On/Off. When you set the function on, the noise detected can be filtered</p> <p>Encoding: G711-ULaw, G711-ALaw and AAC LC are available</p> <p>Sample Rate: There are 8KHz/16KHz two options</p> <p>Input Gain: Input audio gain level, 0-100</p> <p>Alarm Level: Alarm will be triggered if voice alarm is enabled and input gained volume is higher than the alarm level, 0-100</p>
Audio Output	<p>Auto Gain Control: This function is only for H.265 series, improve the quality of audio</p>

Output Volume: Adjust volume of output

Note:

- 1) The Audio mode and Audio Output are only for certain modules.

4.3.4 Wi-Fi

Wi-Fi

The page is as follows:



The screenshot shows two sections of a web interface. The top section, titled "Wi-Fi Settings", contains the following fields: "Enable Wi-Fi" (checked checkbox), "Wi-Fi Status" (Disconnect), "SSID" (Milesight), "Network Mode" (radio buttons for Manage and Ad-Hoc, with Manage selected), "Security Mode" (WPA/WPA2 personal dropdown), "Encryption Type" (Auto dropdown), and "Key" (milesight text input). The bottom section, titled "Wi-Fi IP Address Configuration", contains: "Enable DHCP" (checked checkbox), "IP Address" (192.168.1.190), "IPv4 Subnet Mask" (255.255.255.0), "IPv4 Default Gateway" (192.168.1.1), and "Primary DNS" (192.168.1.1).

Figure 4-3-12 Wi-Fi

Table 4-3-7 Description of the buttons

Parameters	Function Introduction
Enable Wi-Fi	Enable/Disable the Wi-Fi function
Wi-Fi Settings	Wi-Fi Status: Connected/Disconnected SSID: Wi-Fi source Network Mode: Wi-Fi option for Manage and Ad-Hoc mode Security Mode: Select Wi-Fi connection security mode Encryption Type: Auto/TKIP/AES are available Key: Enter the Key of Wi-Fi to connect
Wi-Fi IP Address Configuration	Enable DHCP: Check the checkbox to enable the DHCP function IPv4 Address: Address used to identify a network camera on the network IPv4 Subnet Mask: It is used to identify the subnet where the network camera is located IPv4 Default Gateway: The default gateway address Primary DNS: The DNS Server translates the domain name to IP address

WPS(Wi-Fi Protected Setup)

Originally Wi-Fi Simple Config, it's a network security standard that allows users to easily secure a

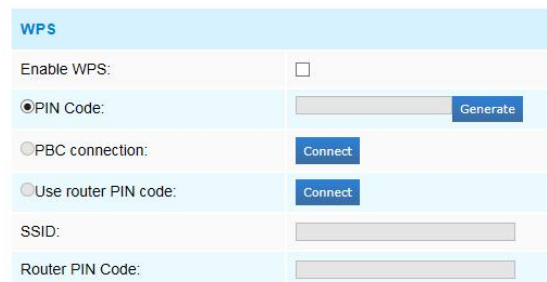
wireless home network. The goal of the protocol is to allow home users who know little of wireless security and may be intimidated by the available security options to set up Wi-Fi Protected Access, as well as making it easy to add new devices to an existing network without entering long password phrases.

PIN Method

It's a personal identification number (PIN) has to be read from either a sticker or the display on the new wireless device. You can add the PIN code to the router or you add the Router PIN code on this camera.

Push-Button Method

The user simply has to push a button, either an actual or virtual one, on both the access point and the new wireless client device. Support of this mode is mandatory for access points and optional for connecting devices.



The screenshot shows a 'WPS' configuration window. It includes a checkbox for 'Enable WPS'. Below it are three radio button options: 'PIN Code' (selected), 'PBC connection', and 'Use router PIN code'. Each radio button option has a corresponding 'Generate' or 'Connect' button. At the bottom, there are two text input fields labeled 'SSID' and 'Router PIN Code'.

Figure 4-3-13 WPS

Table 4-3-8 Description of the buttons

Parameters	Function Introduction
Enable WPS	Enable or Disable WPS
PIN Code	Click on the "Generate" to get a code, you need to add this PIN code to the router
PBC Connecting	Connect via PBC button, click on the PBC button on the router, then click "Connect" button again
Use Router PIN Code	Enter the router PIN code here, and also with the SSID

Note:

- 1) Wi-Fi function is only applicable for Cube cameras if purchased, WPS need supports from Wi-Fi router.
- 2) If you use Fixed IP, please set IP the same segment with Wi-Fi router.

4.3.5 Network

TCP/IP

<input type="radio"/> Get IPv4 address automatically	
<input checked="" type="radio"/> Use fixed IPv4 address	
IP Address:	<input type="text" value="192.168.8.157"/> <input type="button" value="Test"/>
IPv4 Subnet Mask:	<input type="text" value="255.255.252.0"/>
IPv4 Default Gateway:	<input type="text" value="192.168.9.1"/>
Primary DNS:	<input type="text" value="8.8.8.8"/>
IPv6 Mode:	<input type="text" value="Manual"/> ▼
IPv6 Address:	<input type="text"/>
IPv6 Prefix:	<input type="text"/>
IPv6 Default Gateway:	<input type="text"/>

Figure 4-3-14 TCP/IP

Table 4-3-9 Description of the buttons

Parameters	Function Introduction
Get IPv4 Address Automatically	Get an IP address from the DHCP server automatically
Use fixed IP address	<p>IPv4 Address: An address that used to identify a network camera on the network</p> <p>IPv4 Subnet Mask: It is used for identifying the subnet where the network camera is located</p> <p>IPv4 Default Router: The default router address</p> <p>Primary DNS: The DNS Server translates the domain name to IP address</p> <p>IPv6 Mode: Choose different mode for IPv6: Manual/Route Advertisement/DHCPv6</p> <p>IPv6 Address: IPv6 Address used to identify a network camera on the network</p> <p>IPv6 Prefix: Define the prefix length of IPv6 address</p> <p>IPv6 Default Router: The default router IPv6 address</p>

Note:

- 1) The **Test** button is used to test if the IP is conflicting.

HTTP

HTTP Enable:	<input checked="" type="checkbox"/>
HTTP Port:	<input type="text" value="80"/>
HTTPS Enable:	<input checked="" type="checkbox"/>
HTTPS Port:	<input type="text" value="443"/>

Figure 4-3-15 HTTP

Table 4-3-10 Description of the buttons

Parameters	Function Introduction
HTTP Enable	Start or stop using HTTP
HTTP Port	Web GUI login port, the default is 80, the same with ONVIF port
HTTPS Enable	Start or stop using HTTPS
HTTPS Port	Web GUI login port via HTTPS, the default is 443

HTTP URL are as following:

Stream	URL
Main Stream	http://username:password@IP:port/ipcam/mjpeg.cgi
Secondary Stream	http://username:password@IP:port/ipcam/mjpegcif.cgi
Third Stream	http://username:password@IP:port/mjpegthird.cgi

Note:

- 1) You need to change the codec type of streams to MJPEG expect the main stream of H.264 cameras whose models with "-A".

RTSP

RTSP Port:	<input type="text" value="554"/>
Playback Port:	<input type="text" value="555"/>
RTP Packet:	<input type="text" value="Better Compatibility"/>
Multicast Group Address:	<input type="text" value="239.6.6.6"/>
QoS DSCP:	<input type="text" value="0"/>

Figure 4-3-16 RTSP

Table 4-3-11 Description of the buttons

Parameters	Function Introduction
RTSP Port	The port of RTSP, the default is 554
Playback Port	The port of playback, the default is 555
RTP Packet	There are Better Compatibility and Better Performance two options, if your camera's image mess up, please switch this option

Multicast Group Address	Support multicast function
QoS DSCP	The valid value range of the DSCP is 0-63.

RTSP URL are as following:

Stream	URL
Main Steam	rtsp://username:password@IP:port/main
Secondary Stream	rtsp://username:password@IP:port/sub
Third Stream	http://username:password@IP:port/third

Note:

- 1) DSCP refers to the Differentiated Service Code Point; and the DSCP value is used in the IP header to indicate the priority of the data.
- 2) A reboot is required for the settings to take effect.
- 3) The third stream is only equipped on camera whose model with “-A” or “-B”.

4.3.6 Date&Time

Current System Time

Date:

Time:

Set the System Time

Time Zone:

Daylight Saving Time:

NTP Sync: ☒ Interval:

☐ Synchronize with computer time

Date:

Time:

☐ NTP server

☐ Manual

Save

Figure 4-3-17 Date&Time

Current System Time

Current date&time of the system

Set the System Time

Table 4-3-12 Description of the buttons

Parameters	Function Introduction
Time Zone	Choose a time zone for your location
Daylight Saving time	Enable the daylight saving time
NTP Sync	Regularly update your time according to the interval time
Synchronize with computer time	Synchronize the time with your computer
NTP server	Input the address of NTP server
Encryption Type	Synchronize the time with configured SNTP server and selected time zone
Manual	Set the system time manually

4.4 Advanced Settings

4.4.1 Image

There are two more modules(Privacy Mask and ROI) in Advanced Settings than those in Basic Settings. The same parts will not repeat again. Please refer to 4.3.2 if you are in need.

Privacy Mask

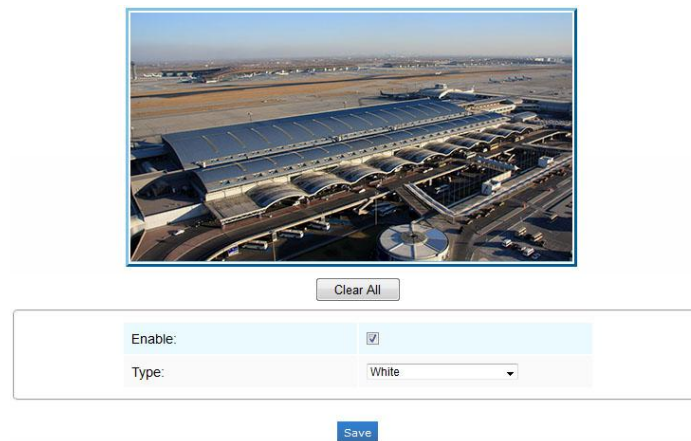


Figure 4-4-1 Privacy Mask

Table 4-4-1 Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the Privacy Mask function
Clear All	Clear all areas you drew before

Type	Select the color to use for the privacy areas, there are three colors available: White, Black, Blue
-------------	--

ROI

A region of interest(often abbreviated ROI), is a selected subset of samples within a dataset identified for a particular purpose. Users can select up to 3 key regions of a scene to transmit as separate streams for targeted preview and recording.

By using Milesight ROI technology, more than 50% of bit rate can be saved and therefore less bandwidth demanded and the storage usage reduced. So according to this, you can set a small bit rate for high resolution.

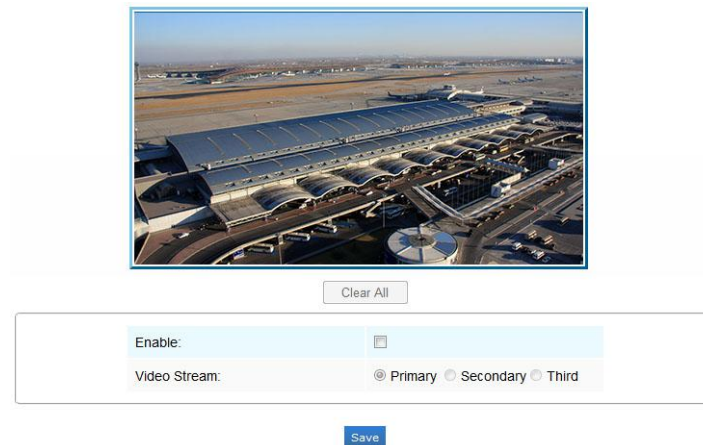


Figure 4-4-2 ROI

Table 4-4-2 Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the ROI function
Clear All	Clear all areas you drew before
Video Stream	Choose the Video Stream

Note:

- 1) You can set a low bit rate.

4.4.2 Network

There are more several modules in Advanced Settings than those in Basic Settings. The same parts will not repeat again. Please refer to 4.3.2 if you are in need.

UPnP

Universal Plug and Play (UPnP) is a networking architecture that provides compatibility among networking equipment, software and other hardware devices. The UPnP protocol allows devices to connect seamlessly and to simplify the implementation of networks in the home and corporate environments. With the function enabled, you don't need to configure the port mapping for each port, and the camera is connected to the Wide Area Network via the router.

Enable UPnP: ☒

Port Mapping

Enable Port Mapping: ☒

Name:

Type:

Protocol Name	External Port	Internal Port	Status
HTTP	<input type="text" value="21202"/>	<input type="text" value="80"/>	Invalid
RTSP	<input type="text" value="23202"/>	<input type="text" value="554"/>	Invalid

Figure 4-4-3 UPnP

Table 4-4-3 Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the UPnP function
Enable Port Mapping	Check the checkbox to enable the Port Mapping
Name	The name of the device detected online can be edited
Type	Auto: Automatically obtain the corresponding HTTP and RTSP port, without any settings Manual: Need to manually set the appropriate HTTP port and RTSP Port. When choose Manual, you can customize the value of the port number by yourself

DDNS

DDNS allows you to access the camera via domain names instead of IP address. It manages to change IP address and update your domain information dynamically. You need to register an account from a provider.

DDNS is not running

Enable DDNS: ☒

Provider:

Hash:

Host Name:

Figure 4-4-4 DDNS

Table 4-4-4 Description of the buttons

Parameters	Function Introduction
Enable DDNS	Check the checkbox to enable DDNS service
Provider	Support DDNS from now dyndns.org, freedns.afraid.org, www.no-ip.com, www.zoneedit.com
Hash	A string used for verifying, only for "freedns.afraid.org"

User name	Account name from the DDNS provider, unavailable for "freedns.afraid.org"
Password	Account password, unavailable for "freedns.afraid.org"
Host name	DDNS name enabled in the account

SMTP

Alarm video files can be sent to specific mail account through SMTP server. You must configure the SMTP settings correctly before using it.

User Name:	<input type="text" value="hdipnc"/>
Sender Email Address:	<input type="text" value="hdipnc@sina.com"/>
Password:	<input type="password" value="....."/>
Server Address:	<input type="text" value="smtp.sina.com"/>
Server Port:	<input type="text" value="25"/>
Recipient Email Address1:	<input type="text" value="user@domain.com"/>
Recipient Email Address2:	<input type="text"/>
Encryption:	<input type="radio"/> SSL <input type="radio"/> TLS

Figure 4-4-5 SMTP

Table 4-4-5 Description of the buttons

Parameters	Function Introduction
User Name	The sender's name. It is usually the same as the account name
Sender Email Address	Email address to send video files attached emails
Password	The password of the sender
Server Address	The SMTP server IP address or host name(e.g. smtp.gmail.com)
Server Port	The port of SMTP server. The default TCP/IP port for SMTP is 25(not secured). For SSL/TLS port, it depends on the mail you use
Recipient Email Address1	Email address to receive video files
Recipient Email Address2	Email address to receive video files
Encryption	Check the checkbox to enable SSL or TLS if it is required by the SMTP server.

FTP

Alarm video files can be sent to specific FTP server. You must configure the FTP settings correctly before using it.

Server Address:	<input type="text" value="192.168.5.1"/>
Server Port:	<input type="text" value="21"/>
User Name:	<input type="text" value="admin"/>
Password:	<input type="password" value="•••••"/>
FTP Folder Name:	<input type="text" value="default_folder"/>

Figure 4-4-6 FTP

Table 4-4-6 Description of the buttons

Parameters	Function Introduction
Server Address	FTP server address
Server Port	The port of the FTP server. Generally it is 21
User Name	User name used to log in to the FTP sever
Password	User password
FTP Folder Name	Path where video will be uploaded to on the FTP server

VLAN

A virtual LAN (VLAN) is any broadcast domain that is partitioned and isolated in a computer network at the data link layer (OSI layer 2). LAN is an abbreviation of local area network. VLANs allow network administrators to group hosts together even if the hosts are not on the same network switch. This can greatly simplify network design and deployment, because VLAN membership can be configured through software. Without VLANs, grouping hosts according to their resource needs necessitates the labour of relocating nodes or rewiring data links.

VLAN Enable:	<input checked="" type="checkbox"/>
VLAN ID(1~4094):	<input type="text" value="1"/>
VLAN IP:	<input type="text"/>
VLAN Netmask:	<input type="text"/>
VLAN Gateway:	<input type="text"/>

Figure 4-4-7 VLAN

Note:

- 1) How to set up VLAN in switches, please refers to your switches user manual.

PPPoE

This camera supports the PPPoE auto dial-up function. The camera gets a public IP address by ADSL dial-up after the camera is connected to a modem. You need to configure the PPPoE parameters of

the network camera.

Enable PPPoE:	<input type="checkbox"/>
Dynamic IP:	<input type="text" value="0.0.0.0"/>
User Name:	<input type="text"/>
Password:	<input type="password"/>
Confirm Password:	<input type="password"/>

Save

Figure 4-4-8 PPPoE

Note:

- 1) The obtained IP address is dynamically assigned via PPPoE, so the IP address always changes after rebooting the camera. To solve the inconvenience of the dynamic IP, you need to get a domain name from the DDNS provider (e.g. DynDns.com).
- 2) The user name and password should be assigned by your ISP.

SNMP

You can set the SNMP function to get camera status, parameters and alarm related information and manage the camera remotely when it is connected to the network.

Before setting the SNMP, please download the SNMP software and manage to receive the camera information via SNMP port. By setting the Trap Address, the camera can send the alarm event and exception messages to the surveillance center.

SNMP v1/v2	
SNMP V1 Enable:	<input type="checkbox"/>
SNMP V2c Enable:	<input type="checkbox"/>
Write Community:	<input type="text" value="public"/>
Read Community:	<input type="text" value="private"/>
Trap Address:	<input type="text"/>
Trap Port:	<input type="text" value="162"/>
Trap Community Name:	<input type="text"/>
SNMP v3	
SNMP V3 Enable:	<input type="checkbox"/>
Read Security Name:	<input type="text"/>
Level of Security:	<input type="text" value="no auth,no priv"/>
Write Security Name:	<input type="text"/>
Level of Security:	<input type="text" value="no auth,no priv"/>
SNMP Port	
SNMP Port:	<input type="text" value="161"/>

Save

Figure 4-4-9 SNMP

Table 4-4-7 Description of the buttons

Parameters	Function Introduction
SNMP v1/2/3	<p>The version of SNMP, please select the version of your SNMP software.</p> <p>SNMP v1: Provide no security</p> <p>SNMP v2: Require password for access</p> <p>SNMP v3: Provide encryption and the HTTPS protocol must be enabled</p>

Write Community	Input the name of Write Community
Read Community	Input the name of Read Community
Trap Address	Set the trap address
Trap Port	Set the trap port, the default is 162
Trap Community Name	Input the trap community name
Read Security Name	Input the name of Read Security Community
Level of Security	There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv)
Write Security Name	Input the name of Write Security Community
Level of Security	There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv)
SNMP Port	The port of SNMP, the default is 161

Note:

- 1) The settings of SNMP software should be the same as the settings you configure here;
- 2) A reboot is required for the settings to take effect.

4.4.3 Alarm

Motion Detection

Step1: Set motion region;

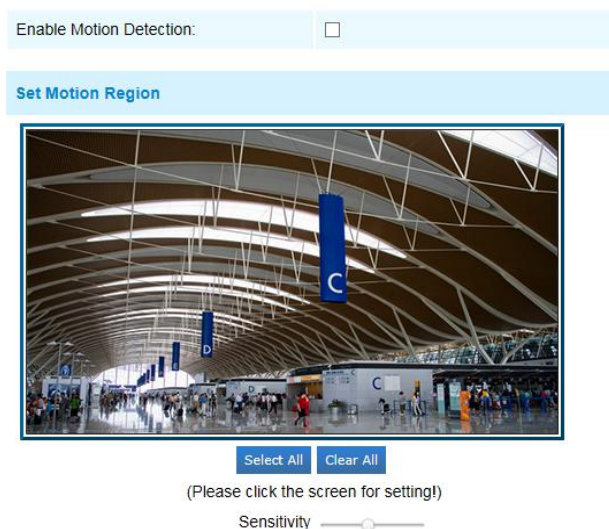


Figure 4-4-10 Motion Region

Table 4-4-7 Description of the buttons

Parameters	Function Introduction
------------	-----------------------

Enable Motion Detection	Check the checkbox to enable Motion Detection function
Select All	Click the button, the motion in the area will be detected
Clear All	Click the button, the area drawn before will be removed
Sensitivity	Sensitivity level, 1~10

Step2: Set motion detection schedule;



Figure 4-4-11 Schedule Settings

Step3: Set alarm action;

Alarm Action	
Save Into SD Card:	<input checked="" type="checkbox"/> File Format: AVI
Save Into NAS:	<input checked="" type="checkbox"/> File Format: AVI
Upload Via FTP:	<input checked="" type="checkbox"/> File Format: AVI
Upload Via SMTP:	<input checked="" type="checkbox"/> File Format: JPG
External Output:	<input checked="" type="checkbox"/> (Please configure the trigger duration.)
Normal Status:	<input type="radio"/> Open <input checked="" type="radio"/> Grounded
Current Status:	Grounded
Play Audio:	<input type="checkbox"/> (Please enable the audio speaker.)
Alarm to SIP Phone:	<input type="checkbox"/>
HTTP Notification:	<input type="checkbox"/>

Figure 4-4-12 Alarm Action

Table 4-4-8 Description of the buttons

Parameters	Function Introduction
Save Into SD Card	Save alarm recording files into SD Card
Save Into NAS	Save alarm recording files into NAS
Upload Via FTP	Upload the recording files via FTP
Upload Via SMTP	Upload the files via SMTP

External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration
Play Audio	If the camera equips with Speaker, you can enable the action after configuring the audio speaker
Play Buzzer	If the camera equips with Buzzer, you can check the checkbox to enable the function.
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.
HTTP Notification	Support to pop up the alarm news to specified HTTP URL.

NOTE:

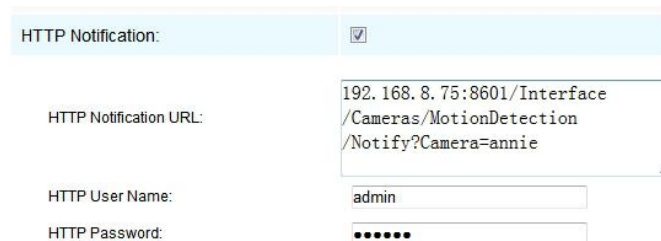
- 1) The **HTTP notification** function is just one way for camera to send messages to VMS Software. And it's the VMS that defines what the messages mean and decides what to do after receiving this kind of messages. So, we can use the **HTTP Notification** function of our cameras only if the VMS supports this kind of message format.

Here will take the Digifort as an example to introduce the **HTTP Notification** function.

The following are the detail steps of setting for HTTP Notification in Digifort VMS and our cameras.

Step1: Enable Alarm, set Motion Region and detection Schedule.

Step2: Check the HTTP Notification as Alarm Action, and fill the fields. Then save the alarm setting.



HTTP User Name: admin (the user name of your camera)

HTTP Password: ms1234 (the password of your camera)

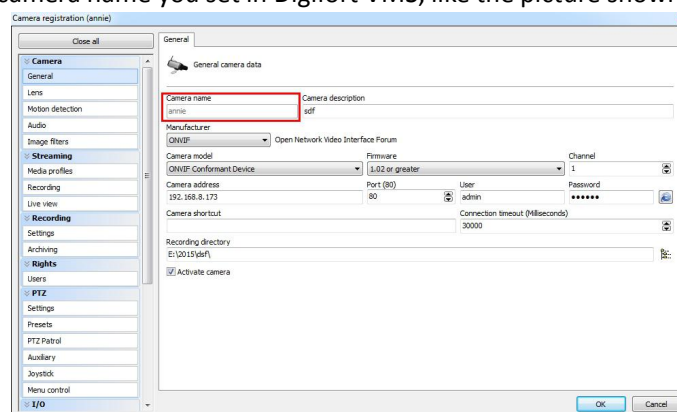
HTTP Notification URL:

<http://IP:8601/Interface/Cameras/MotionDetection/Notify?Camera=CameraName>

IP refers to the PC's ip where the Digifort installed.

8601 is the port for Mothion signal in Digifort

CameraName is the camera name you set in Digifort VMS, like the picture shown below.

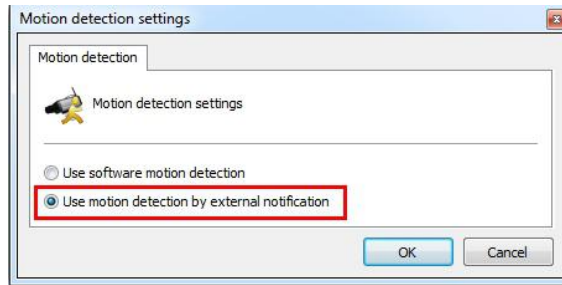


example:

<http://192.168.8.75:8601/Interface/Cameras/MotionDetection/Notify?Camera=annie>,

this url format is exactly supported by Digifort VMS, so we can set as above to our cameras and get it work well.

Step3: choose use motion detection by external notification.



Step4: If successfully, you can see the device icon turns yellow in the Surveillance when the camera is under Motion Detection Alarm



So, it's the VMS Software which decides whether we can use this function successfully.

Step4: Set alarm settings.

Alarm Setting	
Record Video Sections	5 seconds
Pre-record:	0 seconds
Snapshot:	1
Snapshot Interval:	1 second
Trigger Duration:	30 seconds

Figure 4-4-13 Alarm Setting

Table 4-4-9 Description of the buttons

Parameters	Function Introduction
Record Video Sections	Six different periods are available(5, 10, 15, 20, 25, 30 sec)
Pre-record	Reserve the record time before alarm, 0~10 sec
Snapshot	The number of snapshot, 1~5
Snapshot Interval	This cannot be edited unless you choose more than 1 to Snapshot
Trigger Duration	Length of time an alarm lasts, this cannot be edited unless when you enable the External Output on the Alarm Action firstly.

Audio Alarm

Enable the Audio before using Audio Alarm function.

Enable Audio Alarm: ☐ (Please enable the audio first.)

Schedule Settings

Sun																							
Mon																							
Tue																							
Wed																							
Thu																							
Fri																							
Sat																							

[Edit](#)

Figure 4-4-14 Schedule Settings

Alarm Action

Save Into SD Card: ☐ File Format: AVI

Save Into NAS: ☐ File Format: AVI

Upload Via FTP: ☐ File Format: AVI

Upload Via SMTP: ☐ File Format: JPG

Play Buzzer: ☒

Alarm to SIP Phone: ☐ (Please open the SIP.)

HTTP Notification: ☐

Alarm Setting

Record Video Sections: 5 seconds

Pre-record: 0 seconds

Snapshot: 1

Snapshot Interval: 1 second

Trigger Duration: 10 seconds

Figure 4-4-15 Alarm Setting

The meaning of items please refer to table 4-4-8 and 4-4-9, here will not repeat again.

External Input

Enable External Input: ☐

Schedule Settings

Sun																							
Mon																							
Tue																							
Wed																							
Thu																							
Fri																							
Sat																							

[Edit](#)

Figure 4-4-16 Schedule Settings

Alarm Action	
Save Into SD Card:	<input type="checkbox"/> File Format: AVI
Save Into NAS:	<input type="checkbox"/> File Format: AVI (Please mount NAS!)
Upload Via FTP:	<input type="checkbox"/> File Format: AVI
Upload Via SMTP:	<input type="checkbox"/> File Format: JPG
External Output:	<input type="checkbox"/> (Please configure the trigger duration.)
Play Audio:	<input type="checkbox"/> (Please enable the audio speaker.)
Alarm to SIP Phone:	<input type="checkbox"/>
HTTP Notification:	<input type="checkbox"/>

Alarm Setting	
Record Video Sections:	5 seconds
Pre-record:	0 seconds
Snapshot:	1
Snapshot Interval:	1 second
Trigger Duration:	30 seconds

Figure 4-4-17 Alarm Setting

The meaning of items please refer to table 4-4-8 and 4-4-9, here will not repeat again.

Other Alarm

Alarm Type	
	Network Lost

Enable Network Lost Alarm:	<input type="checkbox"/>
----------------------------	--------------------------

Alarm Action	
Save Into SD Card:	<input type="checkbox"/> File Format: AVI
External Output:	<input type="checkbox"/> (Please configure the trigger duration.)
Play Audio:	<input type="checkbox"/> (Please enable the audio speaker.)

Alarm Setting	
Record Video Sections	5 seconds
Pre-record:	0 seconds
Snapshot:	1
Snapshot Interval:	1 second
Trigger Duration:	30 seconds

[Save](#)

Figure 4-4-18 Other Alarm

Table 4-4-10 Description of the buttons

Parameters	Function Introduction
Alarm Type	Network Lost, Tampering and IP Address Conflicted are available Check the checkbox to enable the alarm type you selected
Alarm Action	Save Into SD Card: Save alarm recording files into SD Card External Output: If the camera equips with External Output, you can enable the action after configuring the trigger duration

	<p>Play Audio: If the camera equips with Speaker, you can enable the action after configuring the audio speaker</p> <p>Play Buzzer: If the camera equips with Buzzer, you can check the checkbox to enable the function</p>
Alarm Setting	<p>Record Video Sections: Six different periods are available(5, 10, 15, 20, 25, 30 sec)</p> <p>Pre-record: Reserve the record time before alarm, 0~10 sec</p> <p>Snapshot: The number of snapshot, 1~5</p> <p>Snapshot Interval: This cannot be edited unless you choose more than 1 to Snapshot</p> <p>Trigger Duration: Length of time an alarm lasts, this cannot be edited unless when you enable the External Output on the Alarm Action firstly</p>

External Output

External Output

Normal Status:

☐ Open
☒ Grounded

Current Status:

Grounded

Test

Save

Figure 4-4-19 External Output Setting

Please set the **Normal Status** firstly, when the **Current Status** is different with **Normal Status**, it will lead to the alarm.

Region Detection

Region Detection is a target detection algorithm for H.265 series, it is a more exact motion detection.

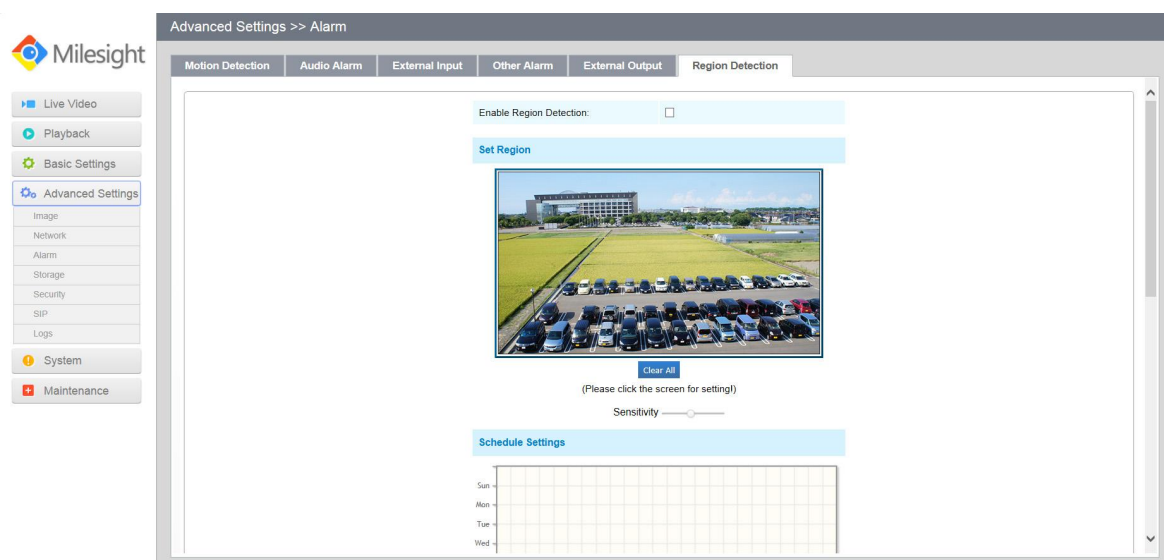


Figure 4-4-20 Region Detection Setting

Step1: Set region, and

Step2: Set region detection schedule;

Step3: Set alarm action;

Step4: Set alarm settings.

Alarm Action	
Save Into SD Card:	<input type="checkbox"/> File Format: AVI (Please insert SD card.)
Save Into NAS:	<input type="checkbox"/> File Format: AVI (Please mount NAS!)
Upload Via FTP:	<input type="checkbox"/> File Format: AVI
Upload Via SMTP:	<input type="checkbox"/> File Format: JPG
External Output:	<input type="checkbox"/> (Please configure the trigger duration.)
Play Audio:	<input type="checkbox"/> (Please enable the audio speaker.)
Alarm to SIP Phone:	<input type="checkbox"/> (Please open the SIP.)
HTTP Notification:	<input type="checkbox"/>

Alarm Setting	
Record Video Sections:	5 seconds
Pre-record:	0 seconds
Snapshot:	1
Snapshot Interval:	1 second
Trigger Duration:	30 seconds

Figure 4-4-21 Alarm Setting

The meaning of items please refer to table 4-4-8 and 4-4-9, here will not repeat again.

4.4.4 Storage

Before you start:

To configure record settings, please make sure that you have the network storage device within the network or the SD card inserted in your camera.

You can check “Enable cyclic storage”, then it will delete the files when the free disk space reach a certain value. Choose the storage mode according to your needs.

SD Card

Total Size:14.82G Free Size:501.56M Used Size:14.33G		Format	UnMount
Enable Recycle Storage:	<input checked="" type="checkbox"/>		
Delete	20	% When the free disk space at	10 M
Save			

Figure 4-4-22 SD Card

Table 4-4-11 Description of the buttons

Parameters	Function Introduction
Format	Format SD card, the files in SD card will be removed

Mount/UnMount	Mount/Dismount SD card
Enable cyclic storage	Enable/Disable cyclic storage
Delete	Enable cyclic storage, when the free disk space reach at a certain time, it will automatically delete the files at certain percentage according to your settings

Record Schedule

Record Storage Type: SD

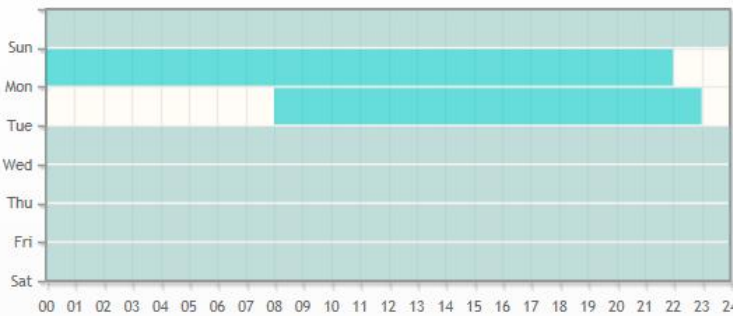
Record Settings

File Sizes: 50 (10-256)M

Record Frame Type: All

Save

Schedule Settings



Edit

Figure 4-4-23 Record Schedule

Table 4-4-12 Description of the buttons

Parameters	Function Introduction
Record Storage Type	SD or NAS are available
Record Settings	File Sizes: Set record file size, (10-256)M Record Frame Type: All/Key (All: Record all the frame Key: Only record I-frame)
Schedule Settings	Click the Edit button to edit record schedule

NAS

The network disk should be available within the network and properly configured to store the recorded files, etc.

NAS (Network-Attached Storage), connecting the storage devices to the existing network, provides data and files services.

Server Address:	192.168.8.76
File Path:	\\share-arrow\2016-03-14
Mounting Type:	SMB/CIFS
User Name:	admin
Password:	••••••
Enable Recycle Storage:	<input checked="" type="checkbox"/>
Delete 20 % When the free disk space at 500 M	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Figure 4-4-24 NAS

Table 4-4-13 Description of the buttons

Parameters	Function Introduction
Server Address	IP address of NAS server
File Path	Input the NAS file path, e.g. "\\path".
Mounting Type	NFS and SMB/CIFS are available. And you can set the user name and password to guarantee the security if SMB/CIFS is selected

Note:

- 1) Up to 5 NAS disks can be connected to the camera.

SD Card Explorer

Files will be seen on this page when they are configured to save into SD card. You can configure time schedules of video recording everyday and save video files to your desired location.

(Note: Files are visible once SD card is inserted. Don't insert or plug out SD card when power on.)

SD card video files are arranged by date. Each day files will be displayed under the corresponding date, from here you can copy and delete files etc. You can visit the files in SD card by ftp, for example, <ftp://username:password@192.168.5.190>(user name and password are the same as the camera account and the IP followed is the IP of your device.).

Current Dir: /				Total Size:14.82G Free Size:501.56M Used Size:14.33G	
Show 10 entries	<input type="button" value="Go To Parent"/>		<input type="button" value="Download"/>		<input type="button" value="Delete"/>
<input type="checkbox"/>	File Name	Time	Type	Size	Action
<input type="checkbox"/>	2015-07-28	-	Folder	-	<input type="button" value="Delete"/>

File Search

Type:

Start Time:

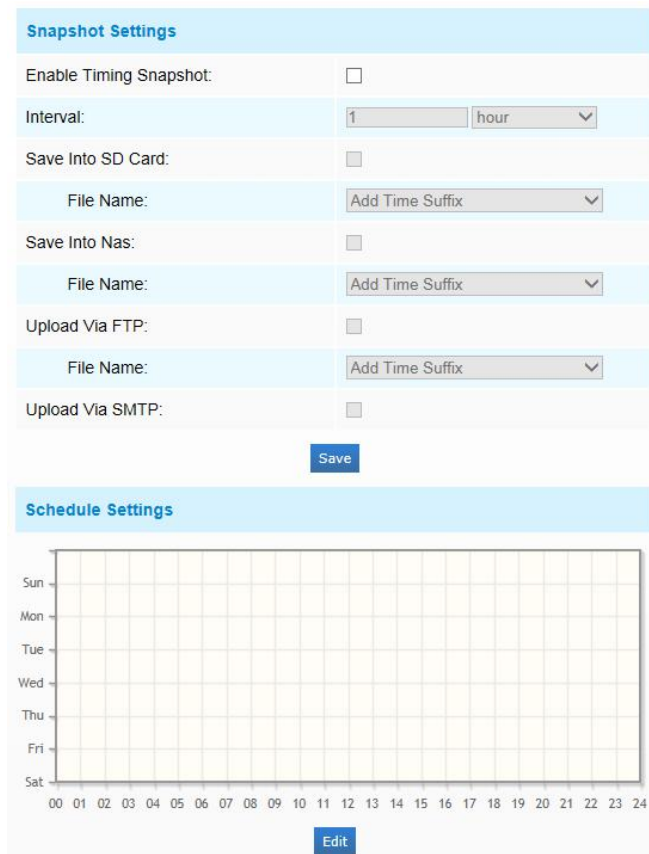
End Time:

Showing 1 to 1 of 1 entries

First Previous **1** Next Last

Figure 4-4-25 SD Card Explore

Snapshot



Snapshot Settings

Enable Timing Snapshot: ☐

Interval: hour

Save Into SD Card: ☐

File Name:

Save Into Nas: ☐

File Name:

Upload Via FTP: ☐

File Name:

Upload Via SMTP: ☐

Save

Schedule Settings

Sun
Mon
Tue
Wed
Thu
Fri
Sat

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Edit

Figure 4-4-26 Snapshot

Table 4-4-14 Description of the buttons

Parameters	Function Introduction
Snapshot Settings	<p>Enable Time Snapshot: Check the checkbox to enable the Timing Snapshot function</p> <p>Interval: Set the snapshots interval, input the number and choose the unit(millisecond, second, minute, hour, day)</p> <p>Save Into SD Card: Save the snapshots into SD card, and choose the file name to add time suffix or overwrite the base file name.</p> <p>Save Into NAS: Save the snapshots into NAS, and choose the file name to add time suffix or overwrite the base file name</p> <p>Upload Via FTP: Upload the snapshots via FTP, and choose the file name to add time suffix or overwrite the base file name</p> <p>Upload Via SMTP: Upload the snapshots via SMTP</p> <p>Please note:</p> <p>There will be every snapshot picture if you choose to add time suffix, and only latest picture when you choose the overwrite the base file name. When you choose to add overwrite the base file name to SD, it will crate a file named "Snapshot" to place the snapshot while the NAS and FTP wont.</p>
Schedule Settings	Click the Edit button to edit record schedule

4.4.5 Security

User

Manage Privilege

Allow anonymous viewing: ☐

Account Management

User Name:

User Password:

Confirm User Password:

Privilege:

Operator

▼

(You can only add 10 users)

Save

Clear

User Name	Privilege	Edit	Delete
admin	Administrator		
operator	Operator		
viewer	Viewer		

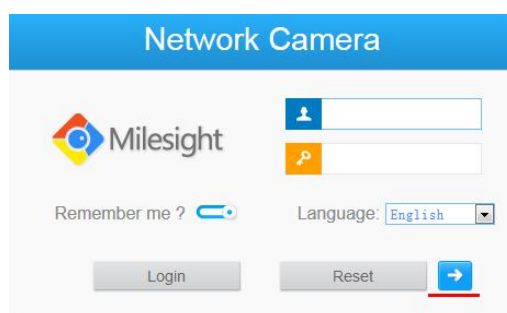
Figure 4-4-27 User

Table 4-4-15 Description of the buttons

Parameters	Function Introduction
Manage Privilege	Allow anonymous viewing: Check the checkbox to enable visit from whom doesn't have account of the device
Account Management	User Name: Input user name for creating an account User Password: Input password for the account Confirm User Password: Confirm the password Privilege: Set the privilege for the account
Administrator	An administrator can manage all configuration pages of the device, including change user password, add or delete users (the default user "admin" cannot be deleted)
Operator	An operator can manage all configuration pages except the User page
Viewer	A viewer can't change any settings

Anonymous Visit

Set the Anonymous visit permission Enable or Disable in the drop-down list to enable or disable the anonymous visit. There will be a checkbox of Anonymous next time you logging in.



The login interface for a Network Camera. It features the Milesight logo, a 'Remember me?' checkbox, a 'Language' dropdown menu set to 'English', and 'Login' and 'Reset' buttons. A blue arrow points to the 'Login' button.

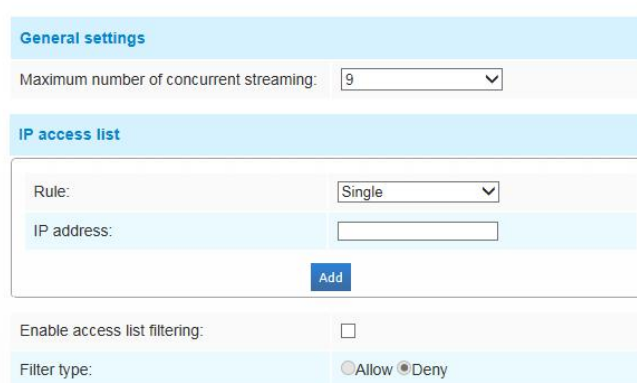
Figure 4-4-28 Log in interface

Click Anonymity and log in.

Note:

- 1) Only live view is available for the anonymous user.

Access List



The Access List configuration interface. It includes a 'General settings' section with a 'Maximum number of concurrent streaming' dropdown set to '9'. The 'IP access list' section has a 'Rule' dropdown set to 'Single' and an 'IP address' input field. Below these is an 'Add' button. At the bottom, there is a checkbox for 'Enable access list filtering' and a 'Filter type' section with radio buttons for 'Allow' and 'Deny' (selected).

Figure 4-4-29 Access List

Table 4-4-16 Description of the buttons

Parameters	Function Introduction
General Settings	Maximum number of concurrent streaming: Select the maximum number of concurrent streaming. Options include No Limit, 1~9
IP access list	Rule: Single, Network and Range are available IP address: Input the address to get the access to the device
Enable access list filtering	Able to access or restrict access for some IP address
Filter type	Access or restrict access

4.4.6 SIP

The Session Initiation Protocol(SIP) is a signaling communications protocol, widely used for controlling multimedia communication sessions such as voice and video calls over Internet Protocol(IP) networks. This page allows user to configure SIP related parameters. Milesight cameras can be configured as SIP endpoint to call out when alarm triggered; or allow permitted number to call in to check the video if the video IP phone is used. To use this function, the settings in SIP page must be configured properly. SIP can be achieved in two ways to get the video, one is to

dial the IP address directly, the other is account registration mode, the details are as follows:

Method 1: IP Direct mode

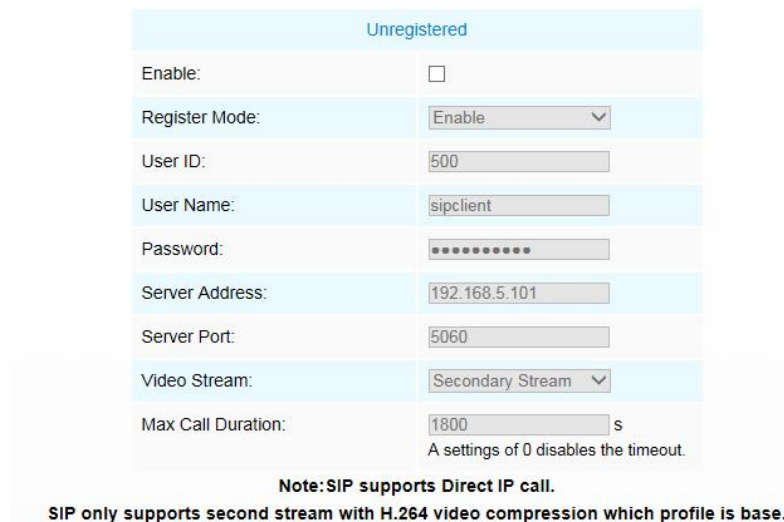
Dial on the camera's IP address directly through SIP phone, so you can see the video

(**Note:** SIP phone and the camera should in the same network segment).

Method2: Account registration mode

- 1) Before using the SIP, you need to register an account for the camera from the SIP server;
- 2) Register another user account for the SIP device from the same SIP server;
- 3) Call the camera User ID from the SIP device, you will get the video on the SIP device.

SIP Settings



Note: SIP supports Direct IP call.
SIP only supports second stream with H.264 video compression which profile is base.

Figure 4-4-30 SIP

Table 4-4-17 Description of the buttons

Parameters	Function Introduction
Unregistered/ Registered	SIP registration status. Display “Unregistered” or “Registered”
Enable	Start or stop using SIP
Register Mode	Choose to use Enable mode or Disable mode. Enable mode means to use SIP with register account. Disable mode refers to use SIP without register account, just use the IP address to call.
User ID	SIP ID
User Name	SIP account name
Password	SIP account password
Server Address	Sever IP address
Server Port	Sever port
Video Stream	Choose the video stream

Max Call Duration	The max call duration when use SIP
--------------------------	------------------------------------

Note:

- 1) SIP supports Directly IP call;
- 2) SIP only supports second stream with H.265/H.264 or MPEG4 Video Compression.

Alarm Phone List

Phone Type:	Phone Number ▼
Phone Number:	<input type="text"/>
Remark Name:	<input type="text"/>
Duration:	From <input type="text" value="00"/> : <input type="text" value="00"/> To <input type="text" value="23"/> : <input type="text" value="59"/>
<input type="button" value="Add"/>	

Figure 4-4-31 Alarm Phone List

Table 4-4-18 Description of the buttons

Parameters	Function Introduction
Phone Type	Phone Number(Call by phone number) & Direct IP Call(Check to accept peer to peer IP call).
Phone Number/ IP Address	Call by phone number or IP address.
Remark Name	Display name.
Duration	The time schedule to use SIP.

White List

Phone Type:	Phone Number ▼
Phone Number:	<input type="text"/>
<input type="button" value="Add"/>	
Enable White List Number Filter:	<input type="checkbox"/>
<input type="button" value="Save"/>	

Figure 4-4-32 White List

Table 4-4-19 Description of the buttons

Parameters	Function Introduction
Phone Type	Phone Number(Call by phone number) & Direct IP Call
Phone Number/ IP Address	Including the phone number or IP address on the whitelist
Enable White List Number Filter	When enabled, only the designated phone number or IP address can visit

4.4.7 Logs

The logs contain the information about the time and IP that has accessed the camera through web.

Show entries

Time	Main Type	Sub Type	Param	User	IP	Detail
2016-06-02 20:41:18	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.
2016-06-02 20:12:41	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.
2016-06-02 20:09:51	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.
2016-06-02 19:45:07	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.
2016-06-02 19:45:07	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.
2016-06-02 19:45:05	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.
2016-06-02 19:45:05	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.
2016-06-02 19:37:18	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.
2016-06-02 19:37:17	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.
2016-06-02 19:37:11	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.
2016-06-02 19:37:11	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.
2016-06-02 19:36:43	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.
2016-06-02 19:36:42	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.
2016-06-02 17:59:09	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.
2016-06-02 17:59:06	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.
2016-06-02 17:52:56	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.

Showing 1 to 30 of 106 entries First Previous **1** 2 3 4 Next Last

Log Search

Main Type:

Sub Type:

Start Time:

End Time:

Save Period:

Figure 4-4-33 Logs

Table 4-4-20 Description of the buttons

Parameters	Function Introduction
Main Type	There are five main log types: All Type, Event, Operation, Information, Exception
Sub Type	On the premise of main type has been selected, select the sub type to narrow the range of logs
Start Time	The time log starts
End Time	The time log ends
Log Export	Export the logs
Save Period	Set the period of log saving, there are eight options to choose: Permanent and 30/60/120/180/240/300/360 Days
Go	Input the number of logs' page

4.5 System

All information about the hardware and software of the camera can be checked on this page.

System	
Device Name:	Network Camera
Product Model:	MS-C3567-PNA
Hardware Version:	V1.1
Software Version:	30.6.0.35
Kernel Version:	3.2.2.17
MAC Address:	1C:C3:16:12:00:32
System Up Time:	1 days 16 hours 5 minutes

Figure 4-5-1 System

Table 4-5-2 Description of the buttons

Parameters	Function Introduction
Device Name	The device name can be customized. It will be seen in file names of video files
Product Model	The product model of the camera
Hardware Version	The hardware version of the camera
Software Version	The software version of the camera can be upgraded
Kernel Version	The kernel version
MAC Address	Media Access Control address
System Up Time Since	The elapsed time since the last restarted of the device

4.6 Maintenance

The software can be upgraded by the following steps:

Step1: Browse and select the upgrading file;

Step2: Click the “upgrade” button after it prompts upload file successfully. After the system reboots successfully, the update is done.

Note:

- 1) Do not disconnect the power of the device during the update. The device will be restarted to complete the upgrading.

Maintenance

Upgrade Firmware

Hardware Version: V1.1

Software Version: 30.6.0.43-beta4

Kernel Version: 3.2.2.18

Firmware File: 未选择文件.

Restore after upgrading: ☐

Upgrade

Note: Do not disconnect the power of the device during the upgrade.

Maintenance

Reboot the device:

Reset settings, except IP address, to factory default:

Export configuration file:

Configuration file: 未选择文件.

Upload

Figure 4-5-2 Maintenance

Table 4-5-3 Description of the buttons

Parameters	Function Introduction
Upgrade Firmware	Hardware Version: The hardware version of the camera Software Version: The software version of the camera Kernel Version: The kernel version Firmware File: Select the firmware used to upgrade
Maintenance	Reboot the device: Click “Reboot” button to restart the device immediately Restore settings, except IP address to Factory Default: Click “Restore” button to restore the camera to factory default settings Export configuration file: Click this button to export the configuration file Configuration file: Click this button to import the old configuration file

Chapter V Services

Milesight Technology Co., Ltd provides customers with timely and comprehensive technical support services. End-users can contact your local dealer to obtain technical support. Distributors and resellers can contact directly with Milesight for technical support.

Technical Support Mailbox: support@milesight.com

Web: <http://www.milesight.com>

Online Problem Submission System: <http://www.milesight.com/service/feedback.asp>

Address: No.23 Wanghai Road,2nd Software Park, Xiamen, China

Zip Code: 361006

TEL: +86-592-5922772

FAX: +86-592-5922775

Milesight
More in Sight