



Network Camera User Manual

V7.12

Thank you for purchasing our product. If there is any questions or requests, 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	2MP	3MP
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
Motorized 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
Motorized 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
Motorized 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
Motorized 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
Pro Box Camera	MS-C2151-PA	—	MA-C3356-PA/ MS-C3556-PA

Milesight H.265 Network Camera

Type Megapixel	2MP	2MP	3MP	4MP	5MP	4K
Mini Dome Network Camera	—	MS-C2981-PB	—	MS-C4481-PB	MS-C5381-PB	—
IR Mini Dome Network Camera	—	MS-C2983-PB	—	MS-C4483-PB	MS-C5383-PB	—
Vandal-proof Mini Dome Network Camera	—	MS-C2973-PB	—	MS-C4473-PB	MS-C5373-PB	—
Weather-proof Mini Dome Network Camera	—	MS-C2975-PB	—	—	MS-C5375-PB	—
AF Motorized Mini Dome Network Camera	—	MS-C2975-EPB	—	—	MS-C5375-EPB	—
Mini Bullet Network Camera	—	MS-C2963-(R)PB	MS-C3763-PB	MS-C4463-PB	MS-C5363-PB	MS-C8163-PB
Vandal-proof Mini Bullet Network Camera	—	MS-C2964-PB	—	—	MS-C5364-PB	—
Motorized Mini Bullet Network Camera	—	MS-C2963-(R)F(I)PB	MS-C3763-F(I)PB	MS-C4463-F(I)PB	MS-C5363-F(I)PB	—
Vandal-proof Motorized Mini Bullet Network Camera	MS-C2864-(R)F(I)PB	MS-C2964-(T)(R)F(I)PB/ MS-C2964-(Q)(R)F(I)LPB	—	—	MS-C5364-(H)F(I)PB	MS-C8164-F(I)PB
180° Panoramic Mini Bullet Network Camera	—	—	—	—	MS-C5365-PB	—
Motorized Pro Bullet Network Camera	MS-C2862-(R)F(I)PB	MS-C2962-(T)(R)F(I)PB/ MS-C2962-RF(I)APB/ MS-C2962-(Q)(R)F(I)LPB	MS-C3762-F(I)PB	MS-C4462-F(I)PB	MS-C5362-(H)F(I)PB	MS-C8162-F(I)PB/ MS-C8262-F(I)PB
Motorized Pro Dome Network Camera	MS-C2872-(R)F(I)PB	MS-C2972-(T)(R)F(I)PB/ MS-C2972-RF(I)APB	MS-C3772-F(I)PB	MS-C4472-F(I)PB	MS-C5372-(H)F(I)PB	MS-C8172-F(I)PB
12x AF Motorized Pro Bullet Network Camera	—	MS-C2962-(T)(R)EPB/ MS-C2962-REAPB/ MS-C2962-(Q)(R)ELPB	—	MS-C4462-EPB	MS-C5362-(H)EPB	—
(ABF) Pro Box Network Camera	MS-C2851-(R)PB	MS-C2951-(T)(R)(E)PB/ MS-C2951-R(E)APB/ MS-C2951-(Q)(R)(E)LPB	MS-C3751-PB	MS-C4451-(E)PB	MS-C5351-(H)(E)PB	MS-C8151-(E)PB

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.

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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 a 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.

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



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.

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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. With 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 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 Plugin-Free mode
- ✧ Support Smart Stream
- ✧ Support ONVIF Profile S & G
- ✧ Support activation and set-up of the security questions for cameras(for V4x.7.0.69 or above)
- ✧ Support Primary Stream/ Secondary Stream/ Tertiary Stream
- ✧ Support PoE for power supply
- ✧ Support Video Content Analysis
- ✧ 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
- ✧ Support Milesight DDNS
- ✧ 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 pro bullet and box cameras, optional for dome cameras)
- ✧ Built-in Microphone(built-in for (IR) Mini Dome, Vandal-proof Mini Dome, Weather-proof Mini Dome and AF Motorized 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(for Pro Bullet)

1.3 Hardware Overview

1. Mini Dome Network Camera

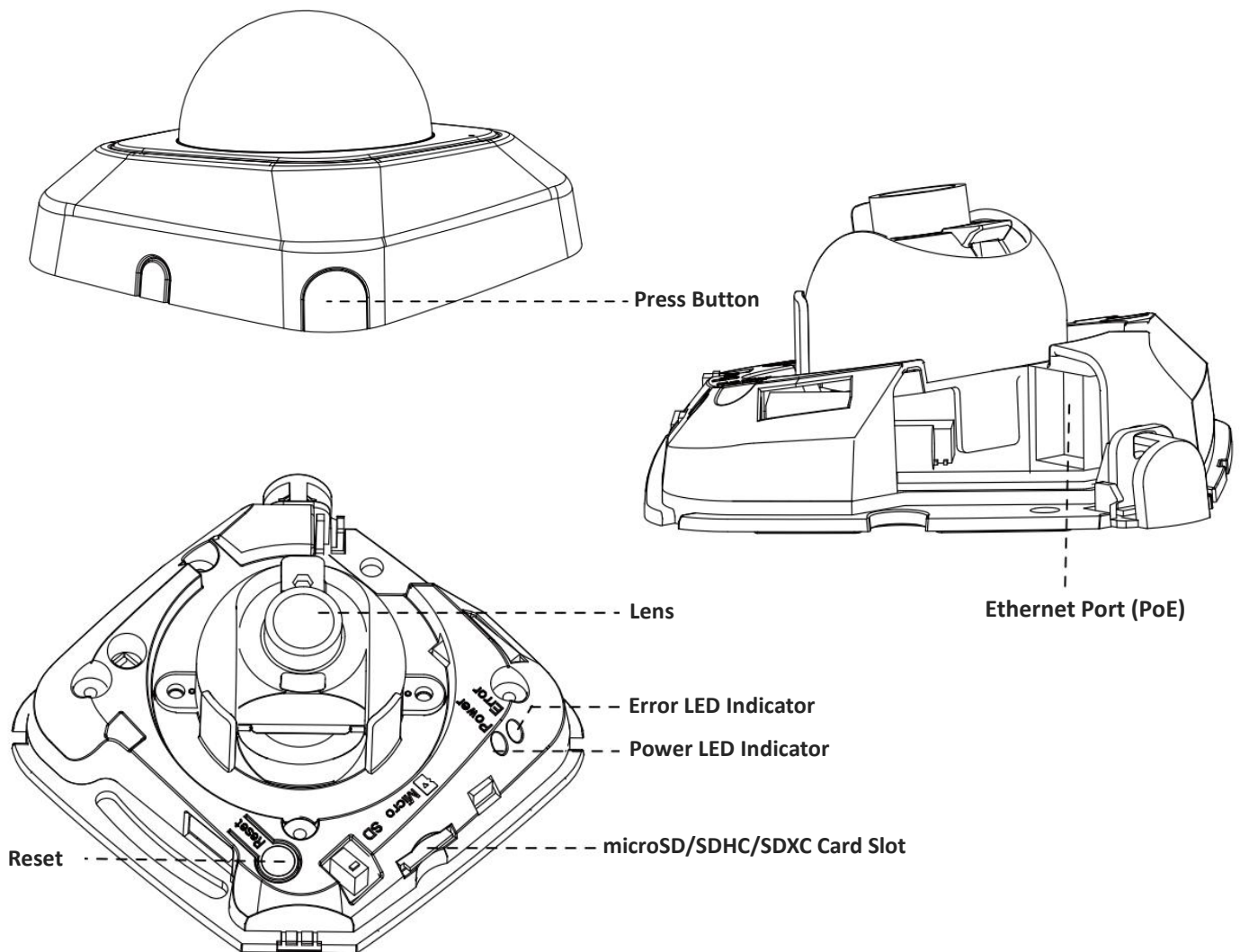


Figure 1-3-1 Mini Dome Network Camera

Note:

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

2. IR Mini Dome Network Camera

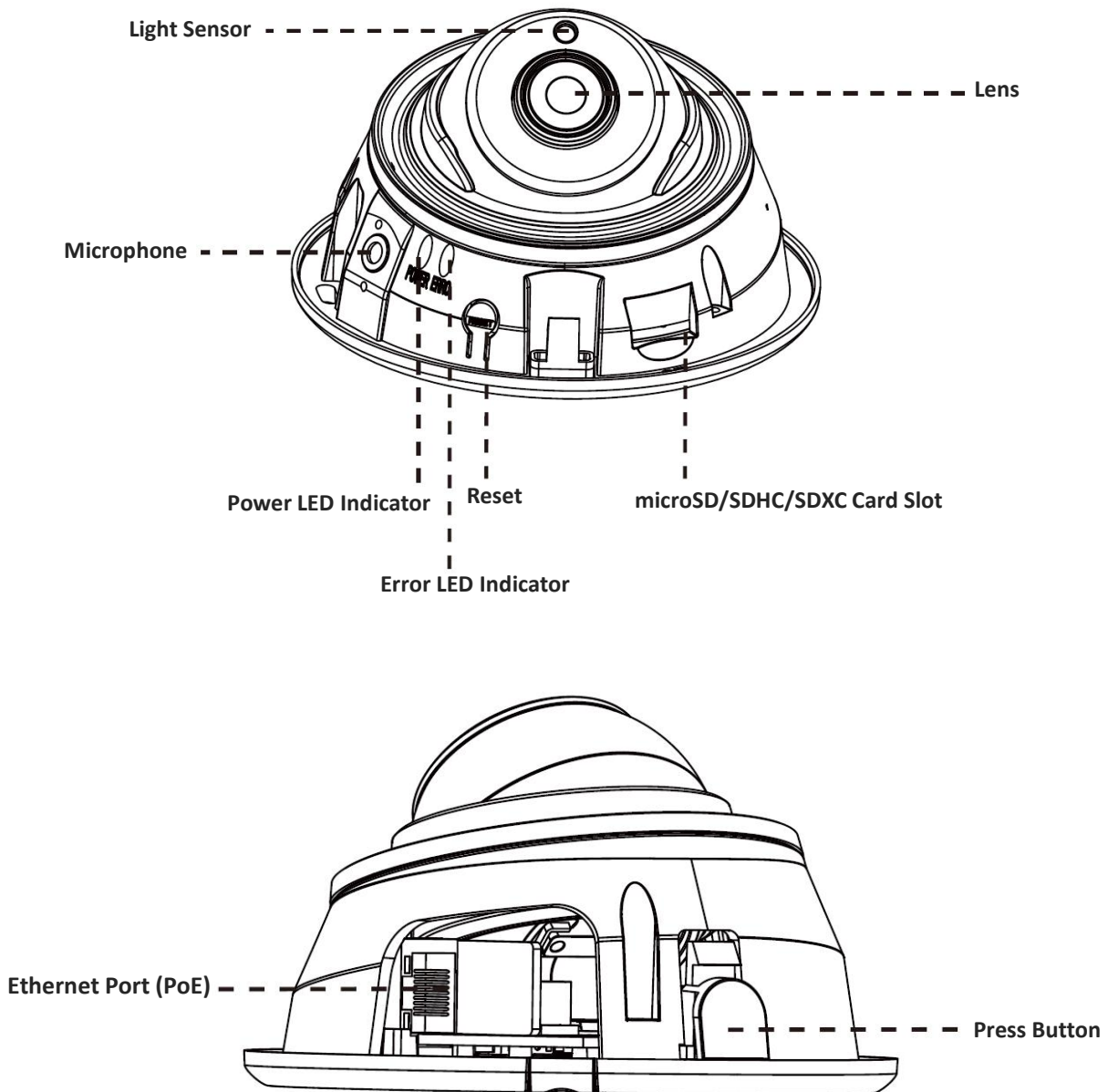


Figure 1-3-2 IR Mini Dome Network Camera

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

3. Vandal-proof Mini Dome Network Camera

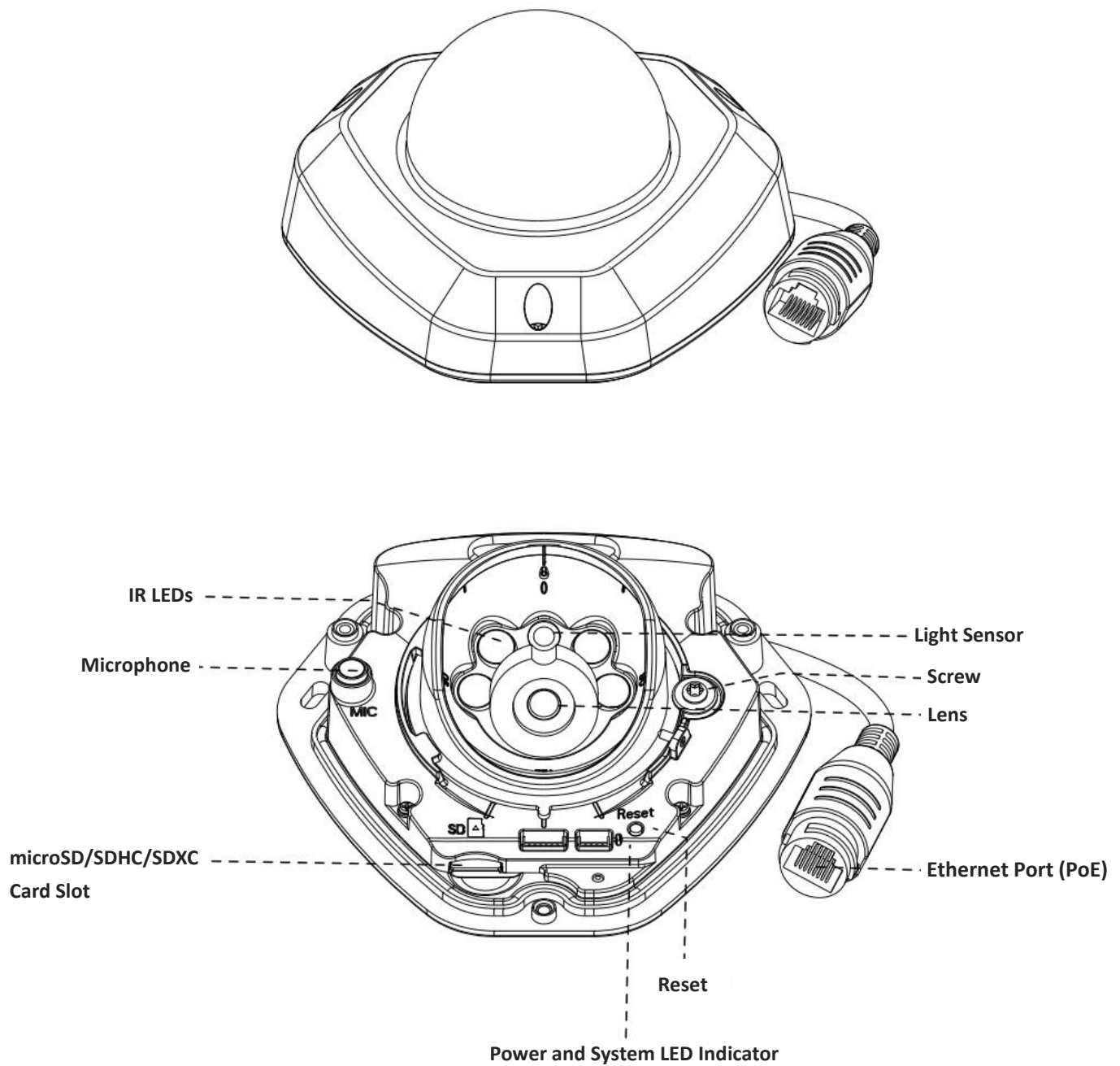


Figure 1-3-3 Vandal-proof Mini Dome Network Camera

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

4. Weather-proof Mini Dome Network Camera

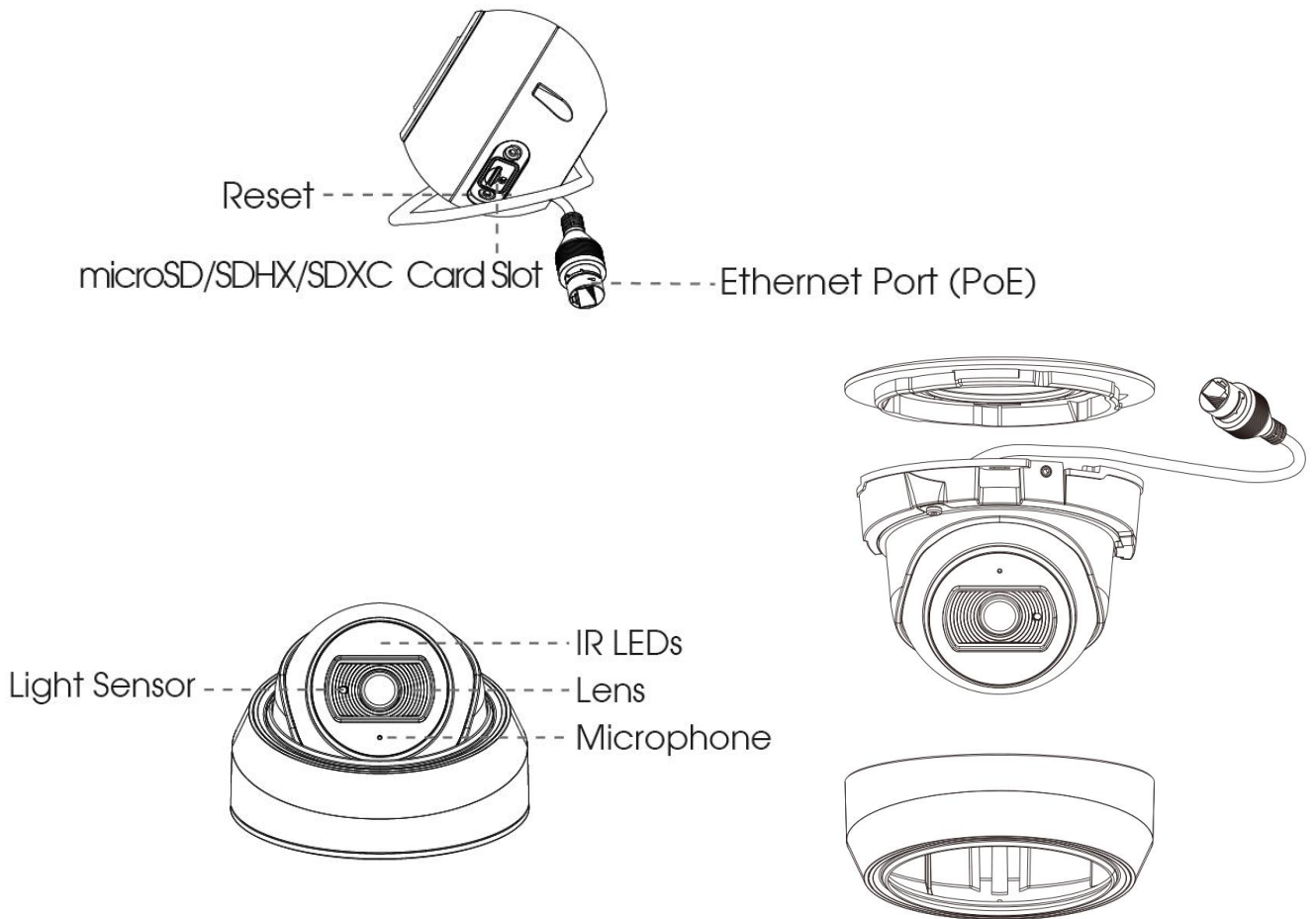


Figure 1-3-4 Weather-proof Mini Dome Network Camera

Note:

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

5. AF Motorized Mini Dome Network Camera

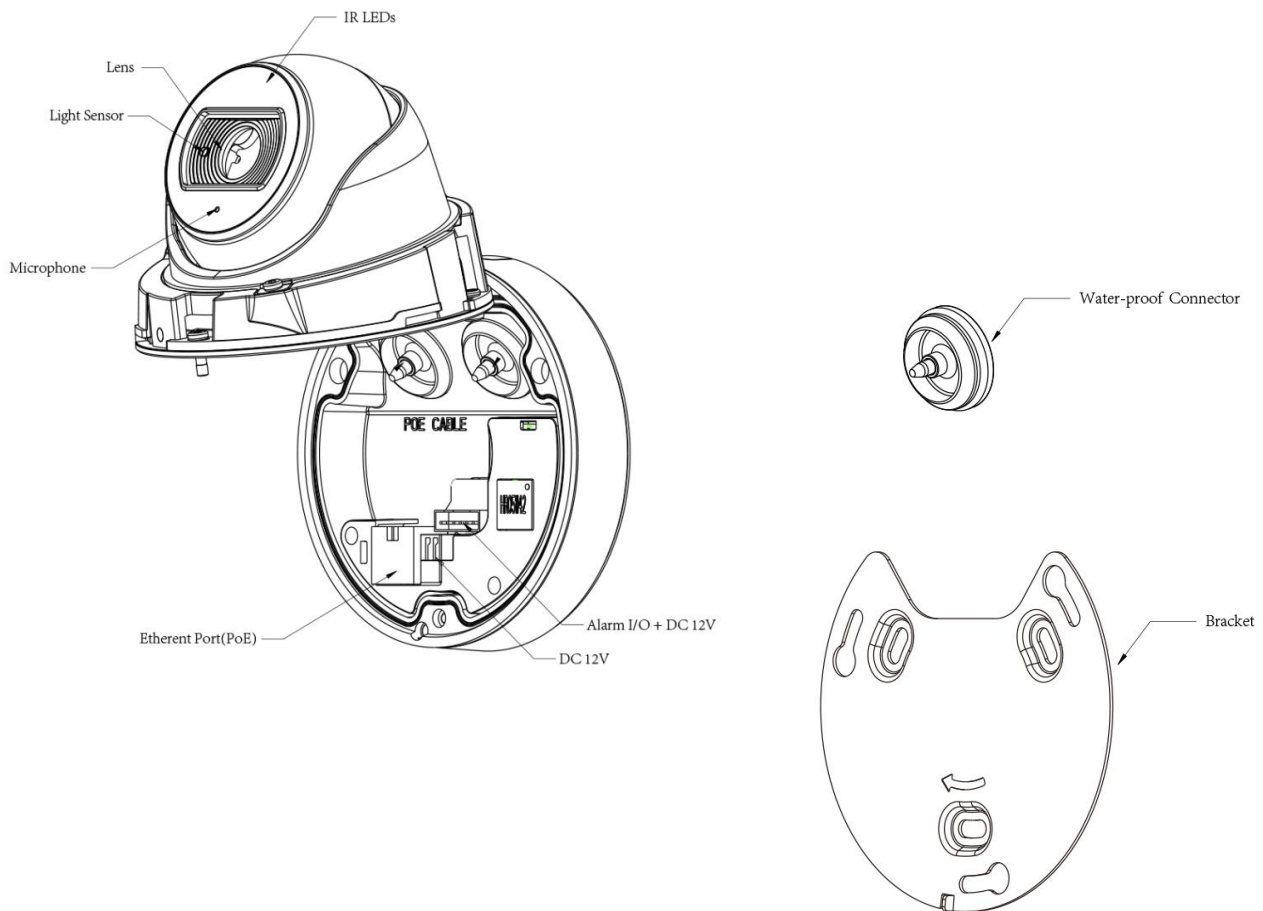


Figure 1-3-5 AF Motorized Mini Dome Network Camera

Note:

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

6. Mini Bullet Network Camera

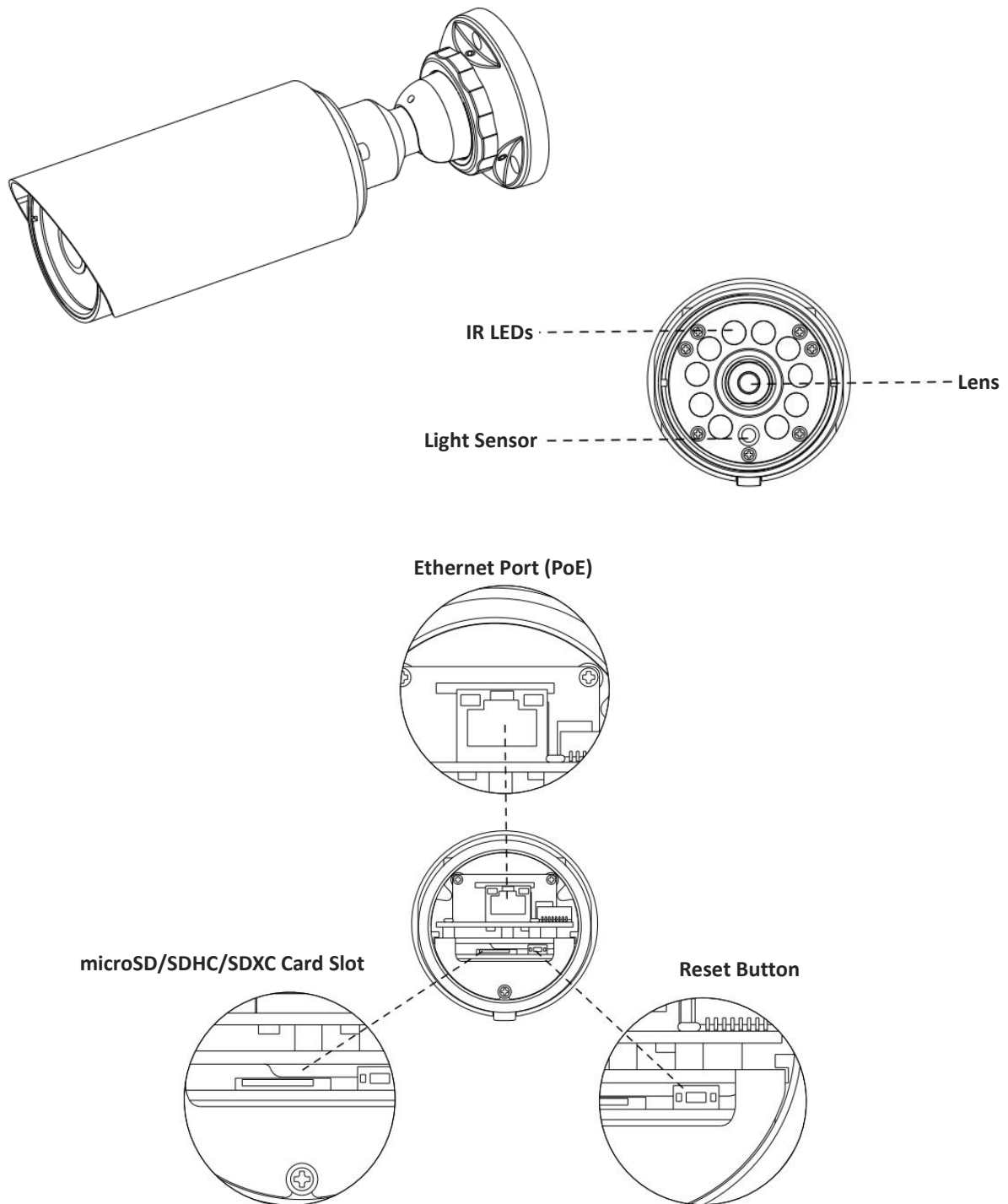


Figure 1-3-6 Mini Bullet Network Camera

Note:

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

7. Vandal-proof Mini Bullet Network Camera

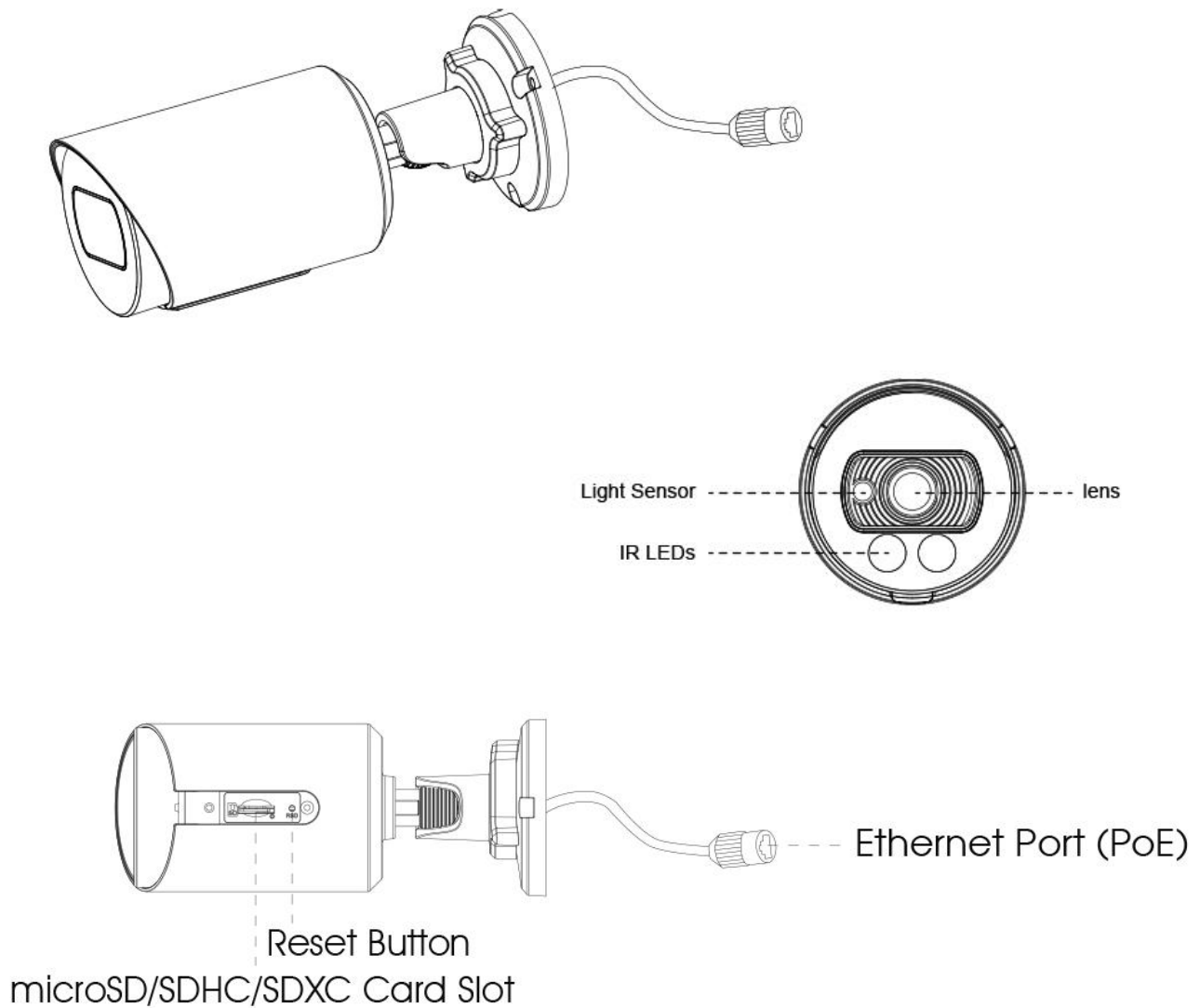


Figure 1-3-7 Vandal-proof Mini Bullet Network Camera

Note:

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

8. (Vandal-proof) Motorized Mini Bullet Network Camera

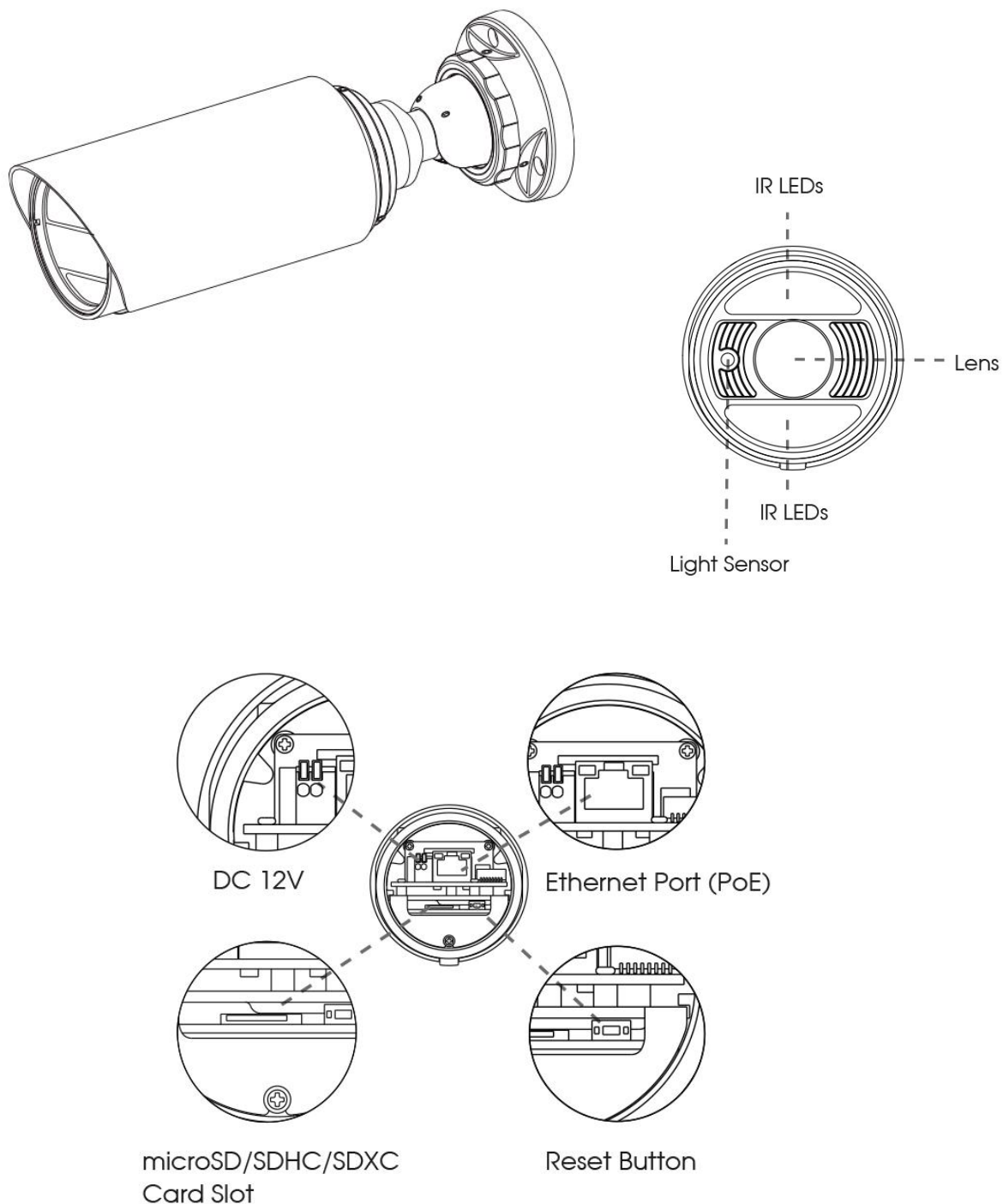
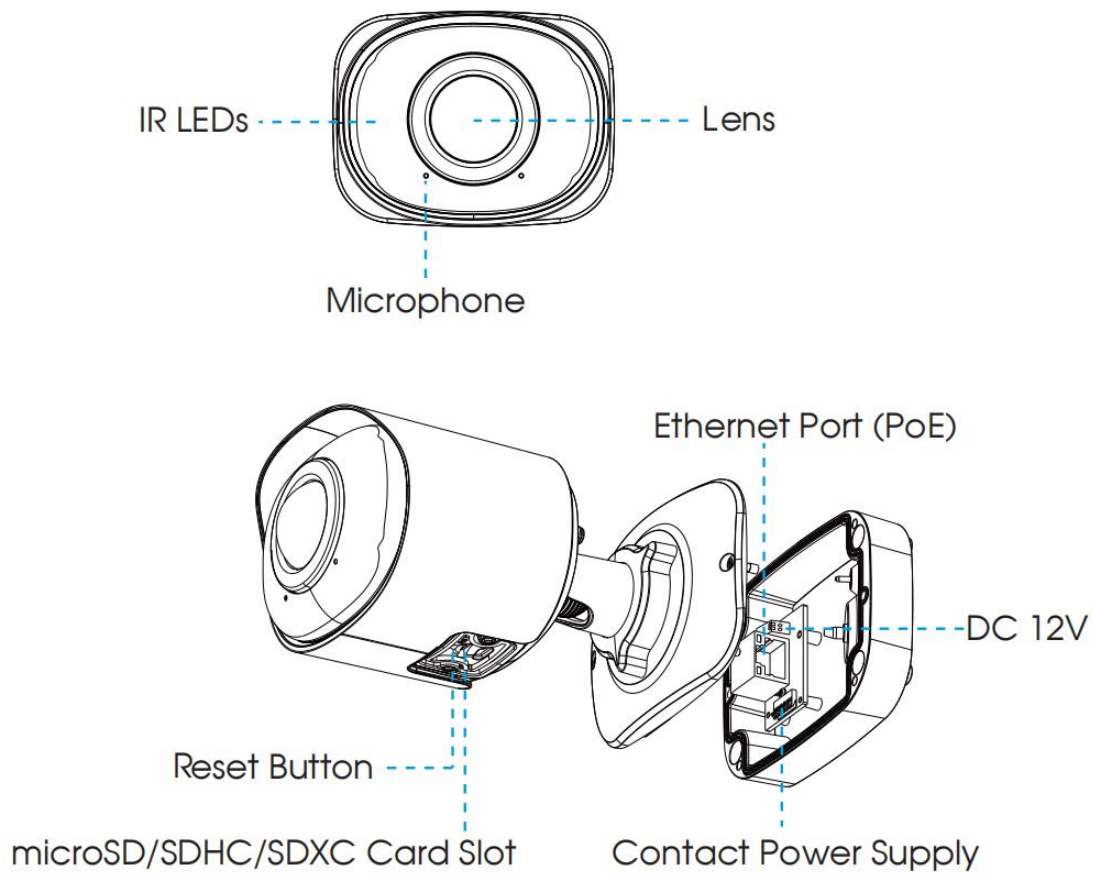


Figure 1-3-8 (Vandal-proof) Motorized Mini Bullet Network Camera

Note:

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

9. 180° Panoramic Mini Bullet Network Camera



Note:

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

10. (12x AF) Motorized Pro Bullet Network Camera

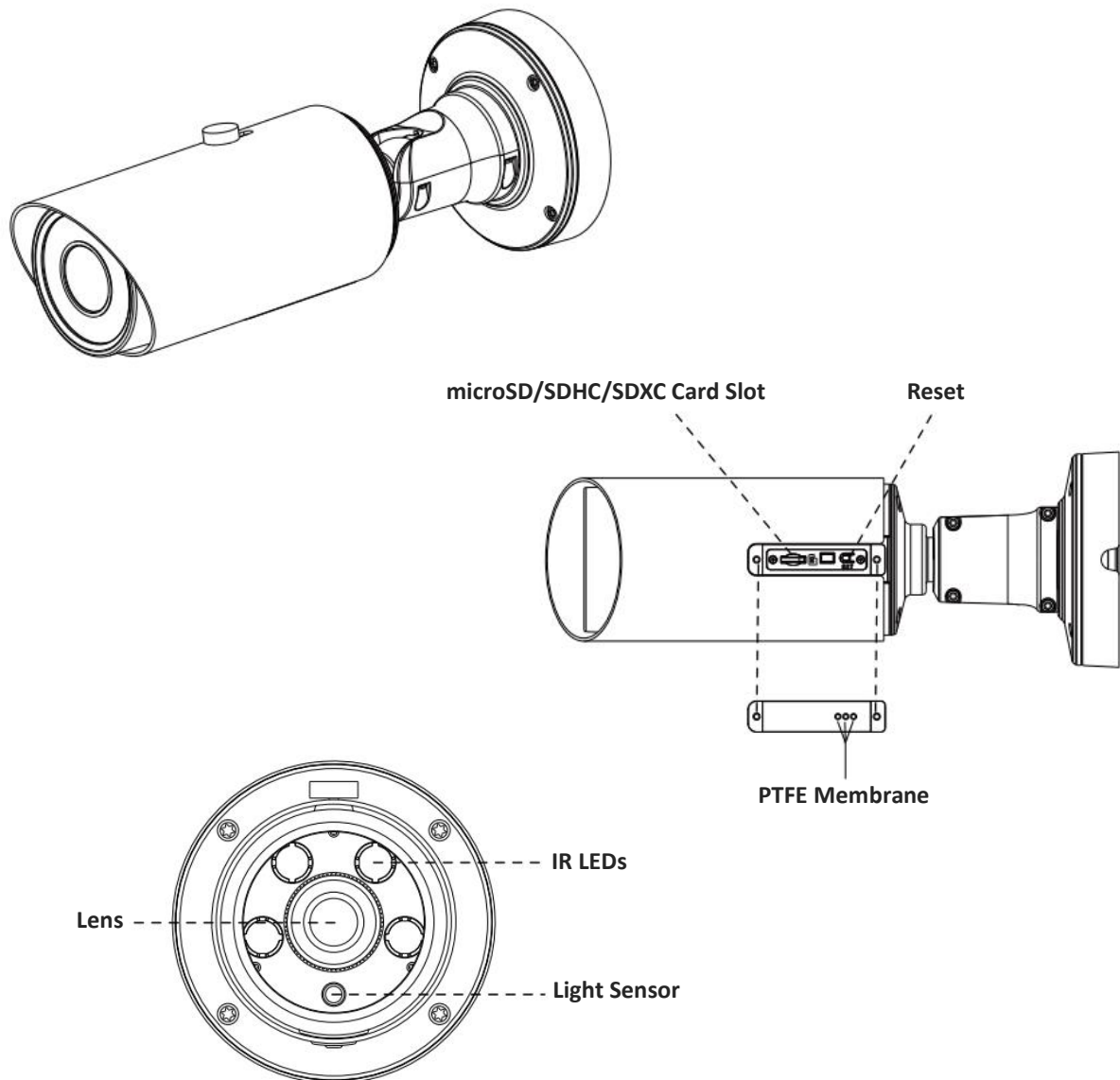


Figure 1-3-9 (12x AF) Motorized Pro Bullet Network Camera

Note:

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

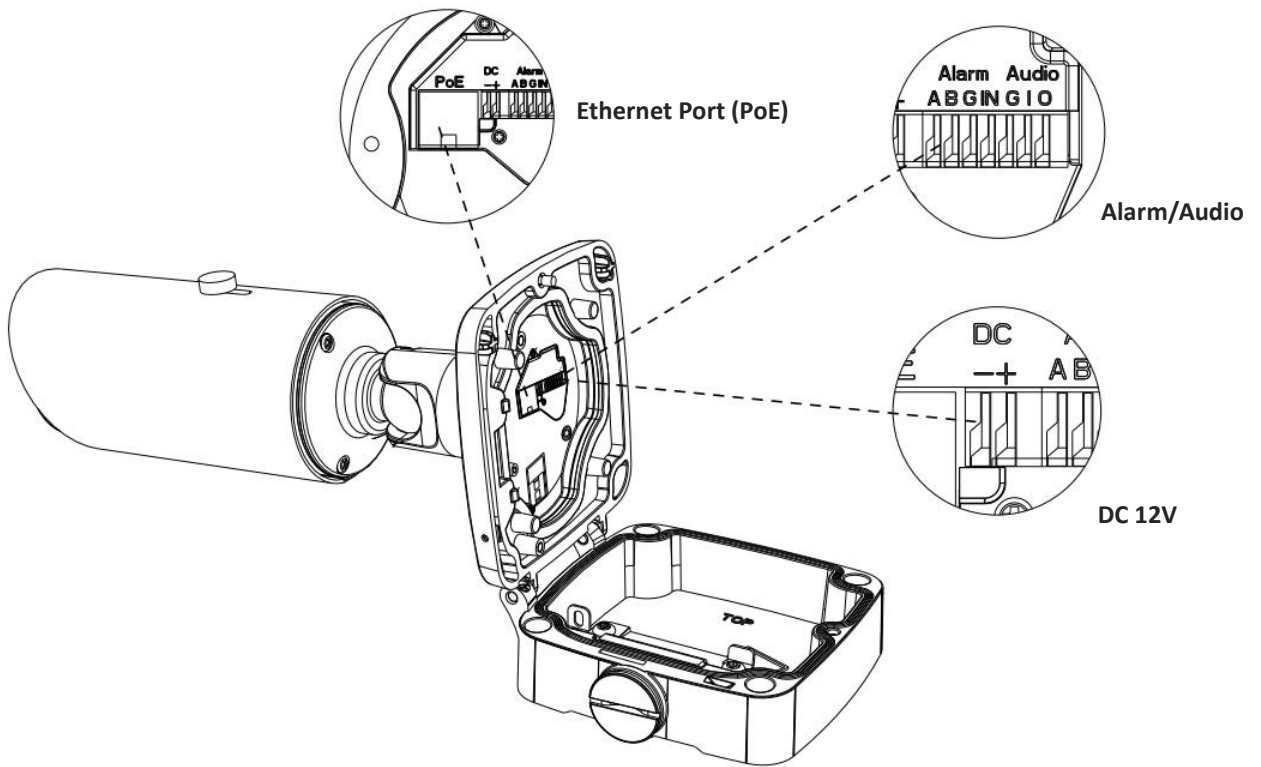


Figure 1-3-10 Motorized Pro Bullet Network Camera (Version A)

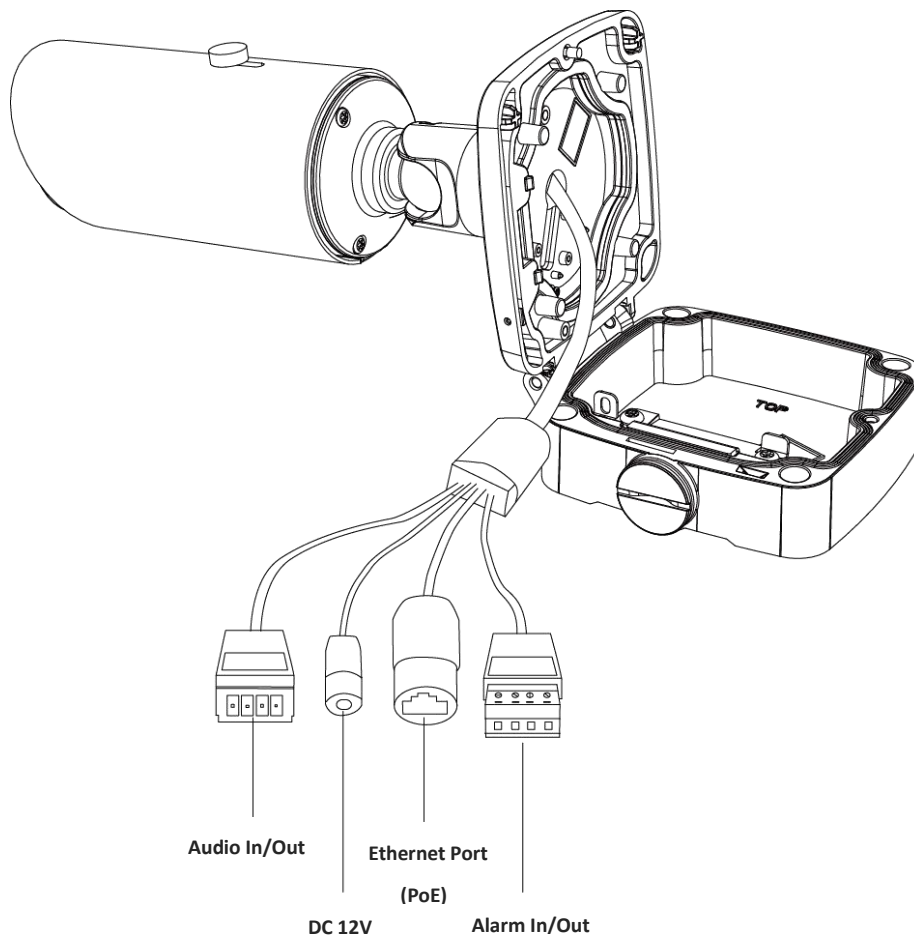


Figure 1-3-11 Motorized Pro Bullet Network Camera (Version B)

11. Motorized Pro Dome Network Camera

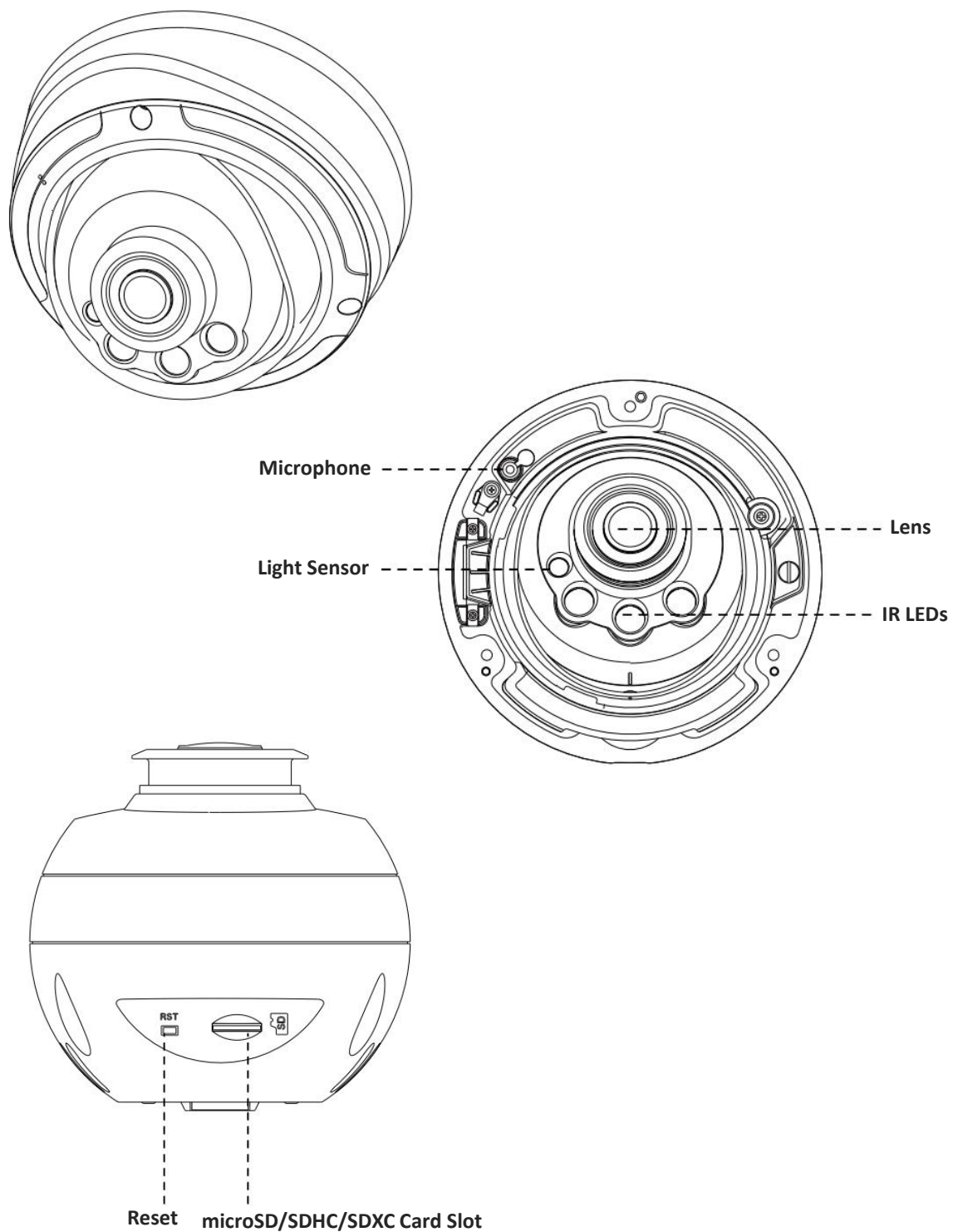


Figure 1-3-12 Motorized Pro Dome Network Camera

Note:

- 1) Reset Button: Press “Reset” button for 5 seconds, then the device will be restored to factory default.

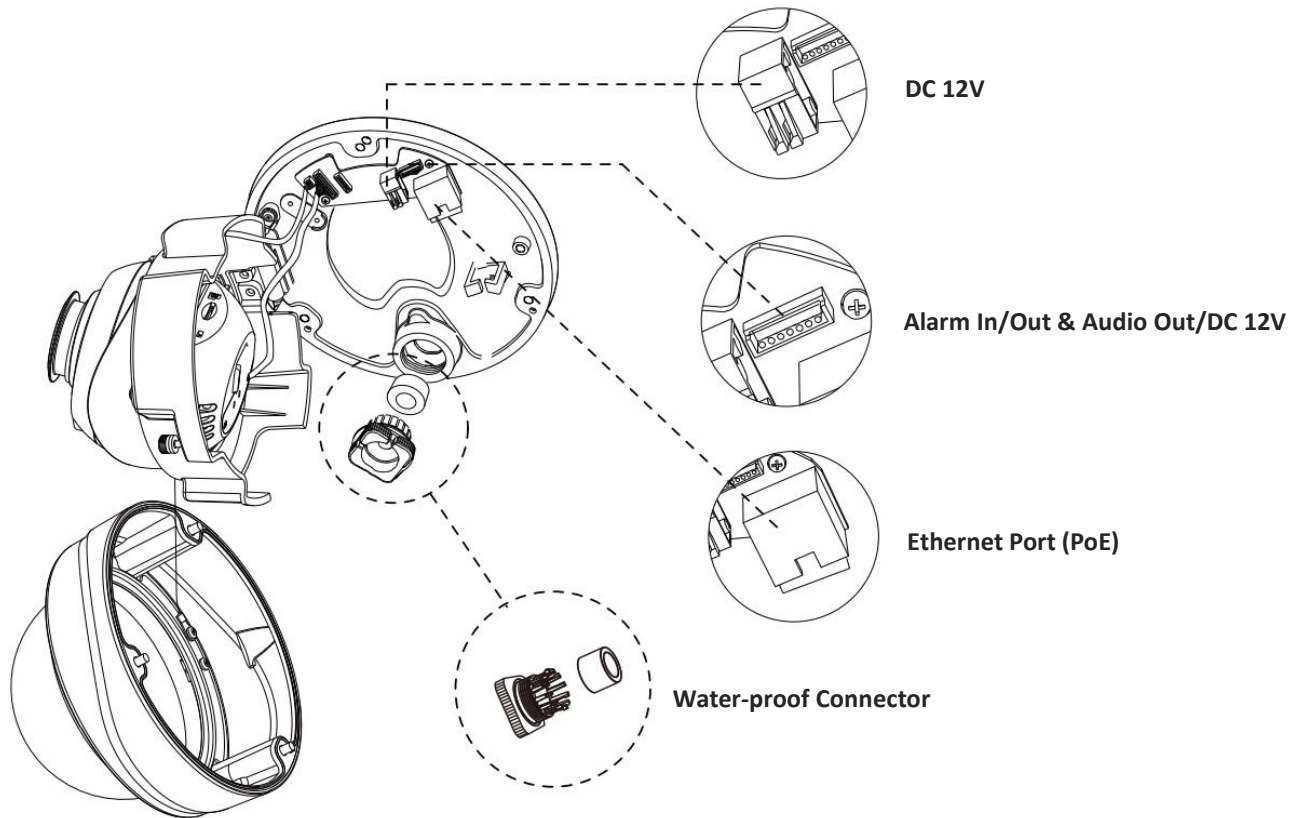


Figure 1-3-13 Motorized Pro Dome Network Camera multiple interface

Here is one equipped cable for multiple interface usage:

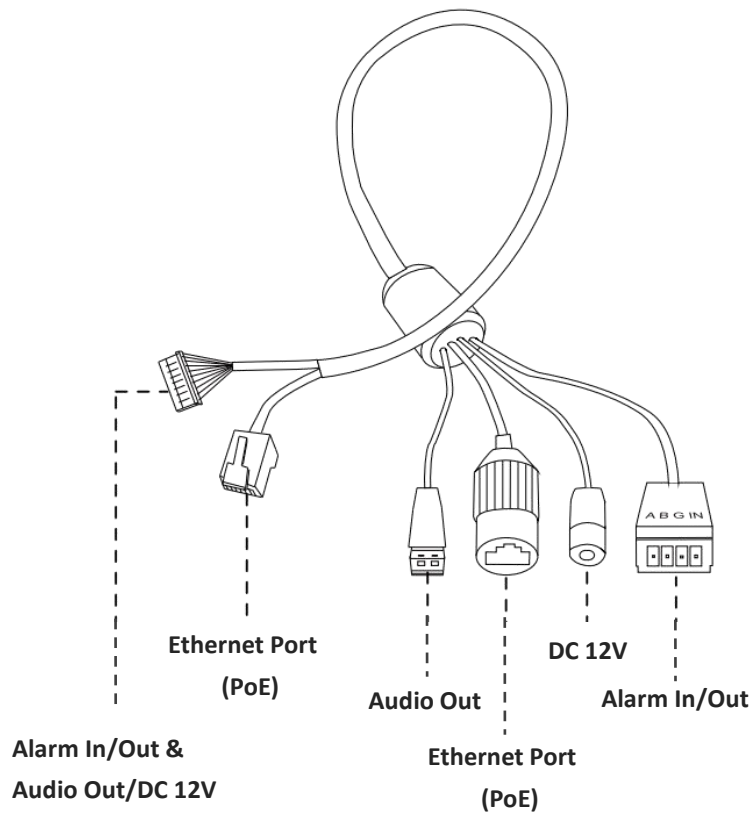


Figure 1-3-14 Motorized Pro Dome Network Camera multiple interface cable

12. (LPR) (ABF) Pro Box Network Camera

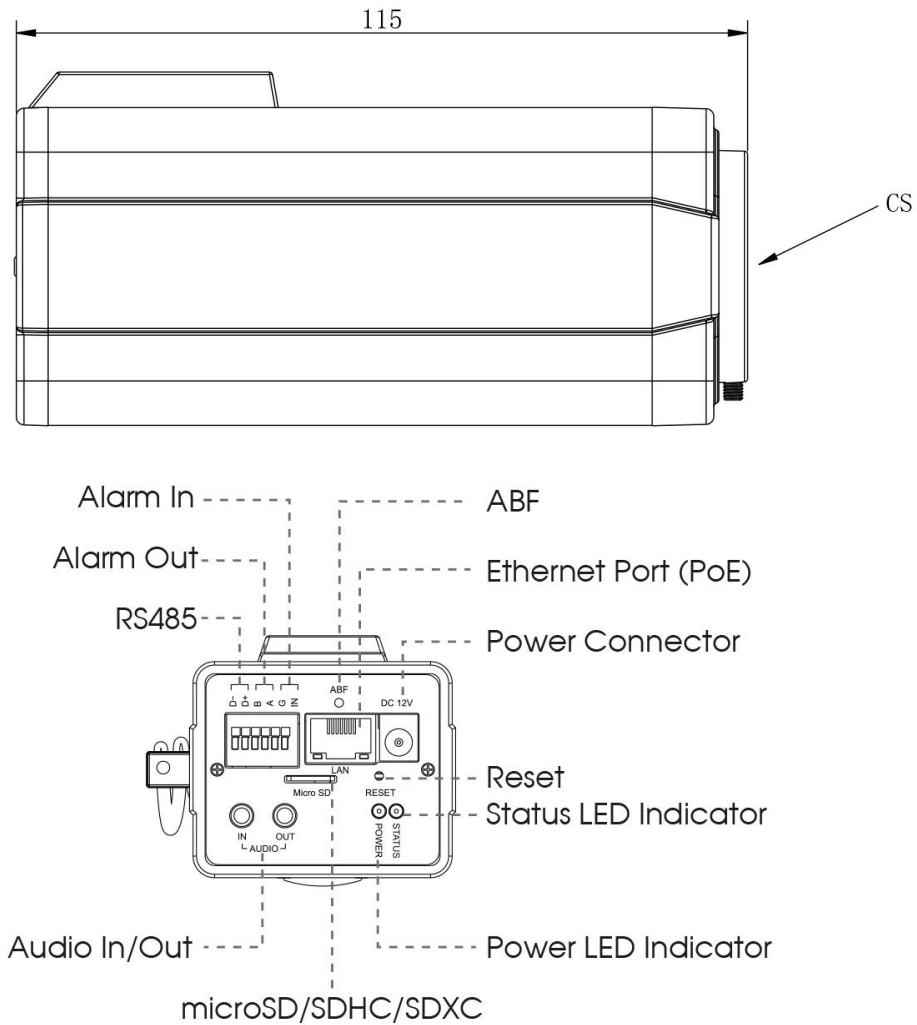


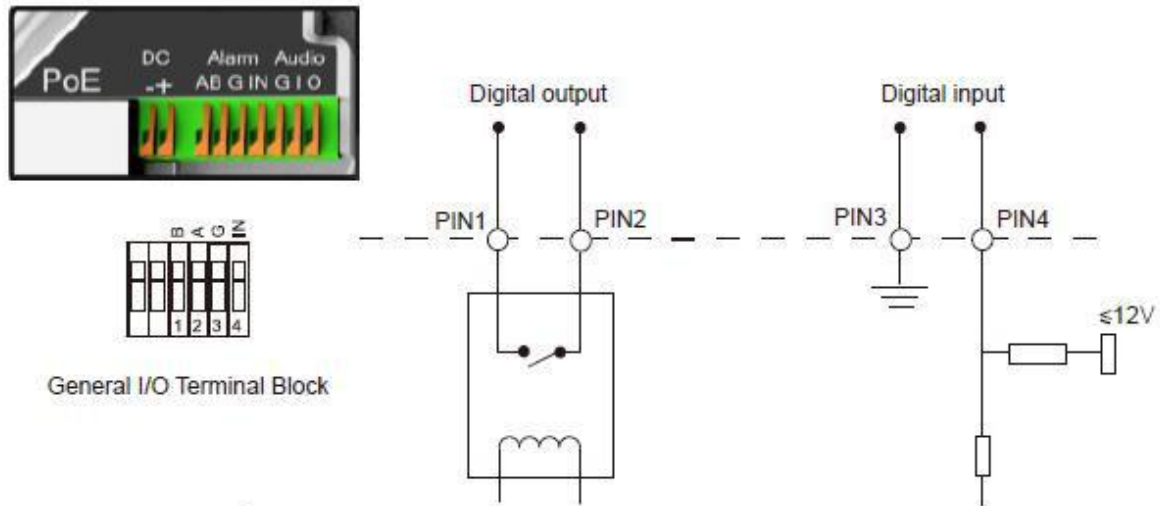
Figure 1-3-15 (ABF) Pro Box Network Camera

Note:

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

1.4 How to Connect to Alarm Interface

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



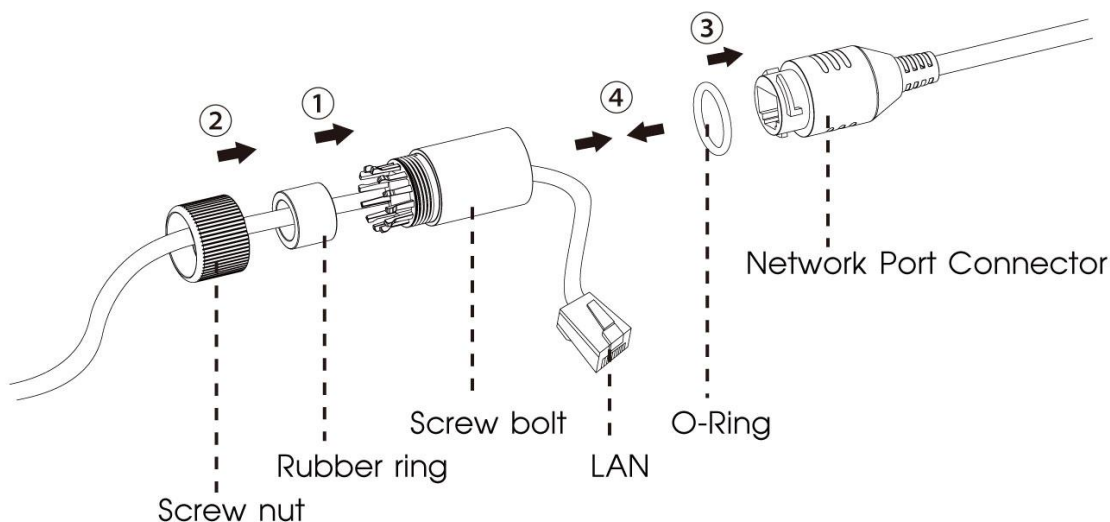
PIN1: Alarm Output NC/NO 24V DC 1A

PIN2: Alarm Output NC/NO 24V DC 1A

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

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

1.5 How to Connect the Water-proof Connector



Step1: Get the network cable through the screw nut, rubber ring and the screw bolt.

Step2: Insert the rubber ring into the screw bolt.

Step3: Connect the screw nut to the screw bolt.

Step4: Place the O-Ring on the network port connector.

Step5: Connect the RJ45 to the network port connector, and tighten the screw bolt and the connector.

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.

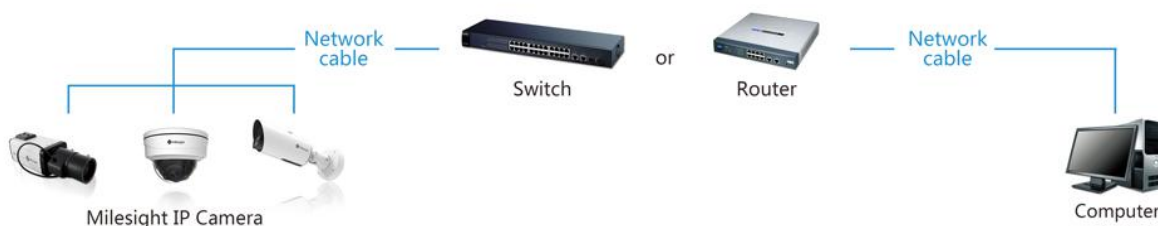


Figure 2-1-2 Connect via a switch or a Router

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

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

3.1 Assigning An IP Address

The Network Camera must be assigned an IP address to be accessible. The default IP address of Milesight Network Camera is 192.168.5.190.

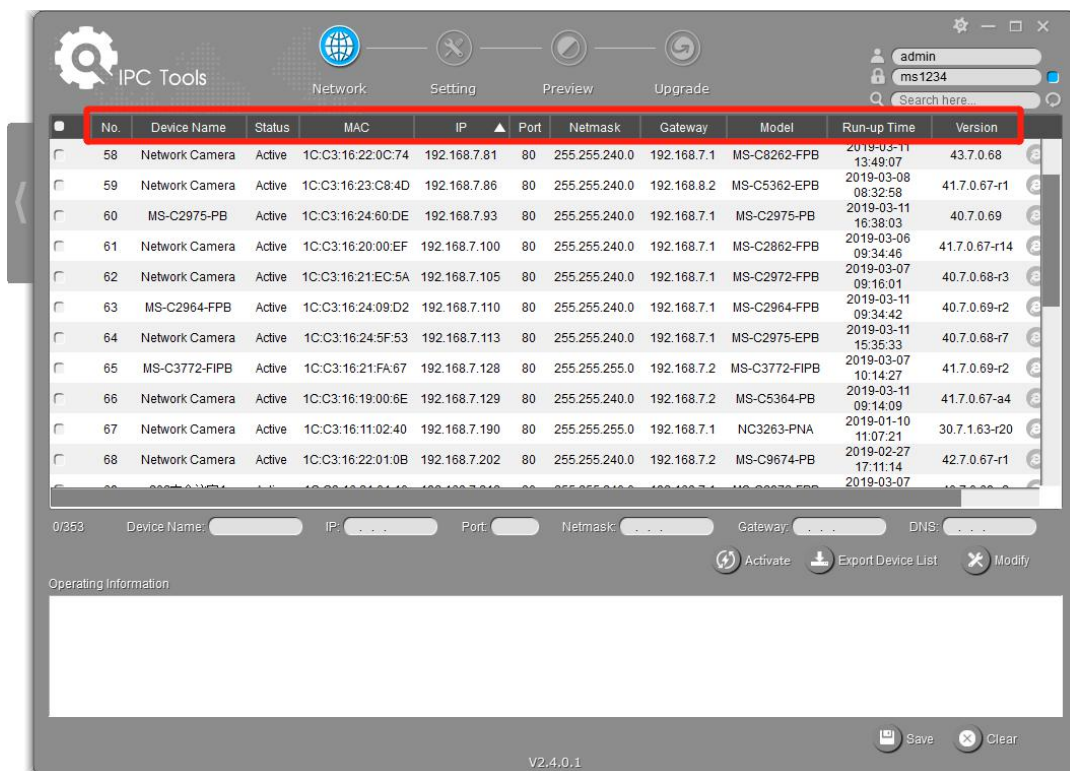
You can either change the IP address of the camera via Smart Tools or browser. Please connect the camera in the same LAN of your computer.

3.1.1 Assigning An IP Address Using Smart Tools

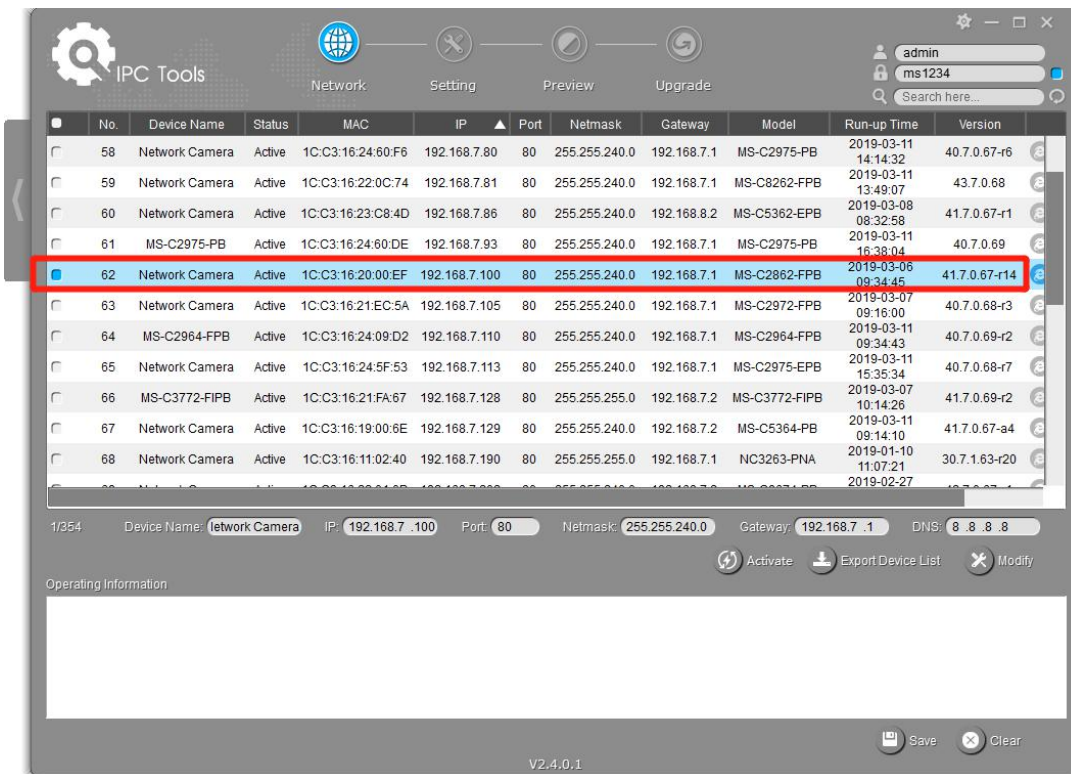
Smart Tools is a software tool which can automatically detect multiple online Milesight network cameras in the LAN, set IP addresses, and manage firmware upgrades. It's recommended to use when assigning IP addresses for multiple cameras.

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

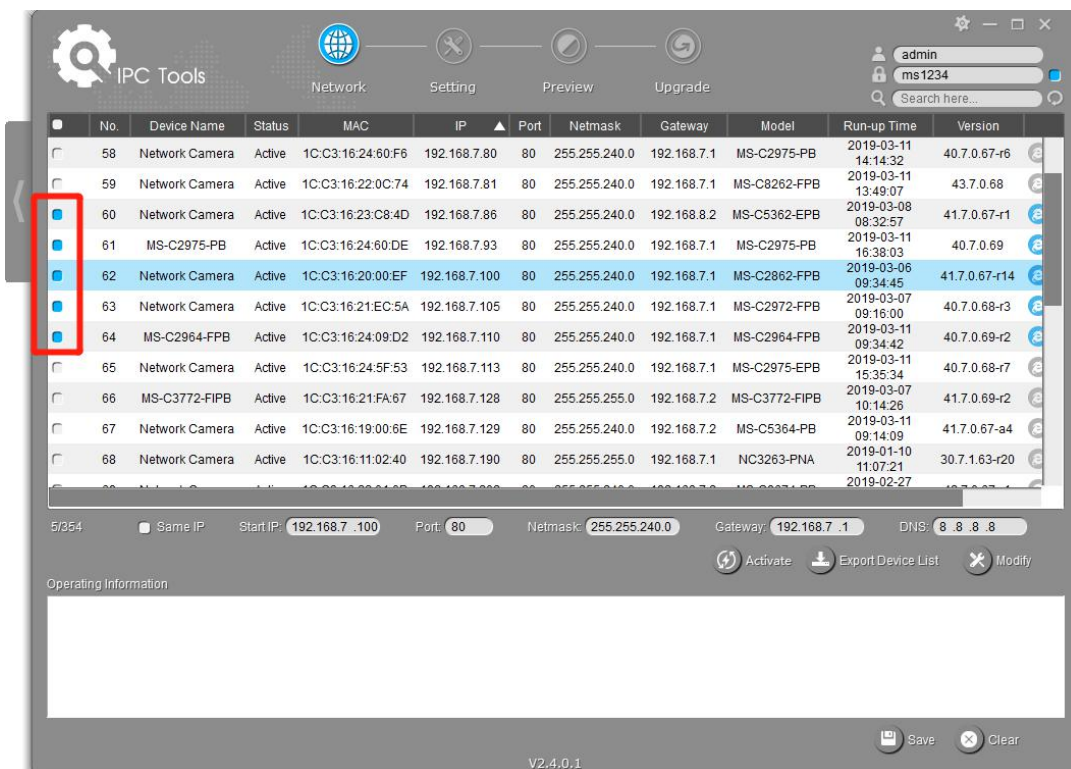
Step2: Start Smart Tools, click the IPC Tools page, then enter the device information, such as IP address, MAC address, Status, Port number, Netmask, and Gateway, then all related Milesight network cameras in the same network that will be displayed. Details are shown as shown below;



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

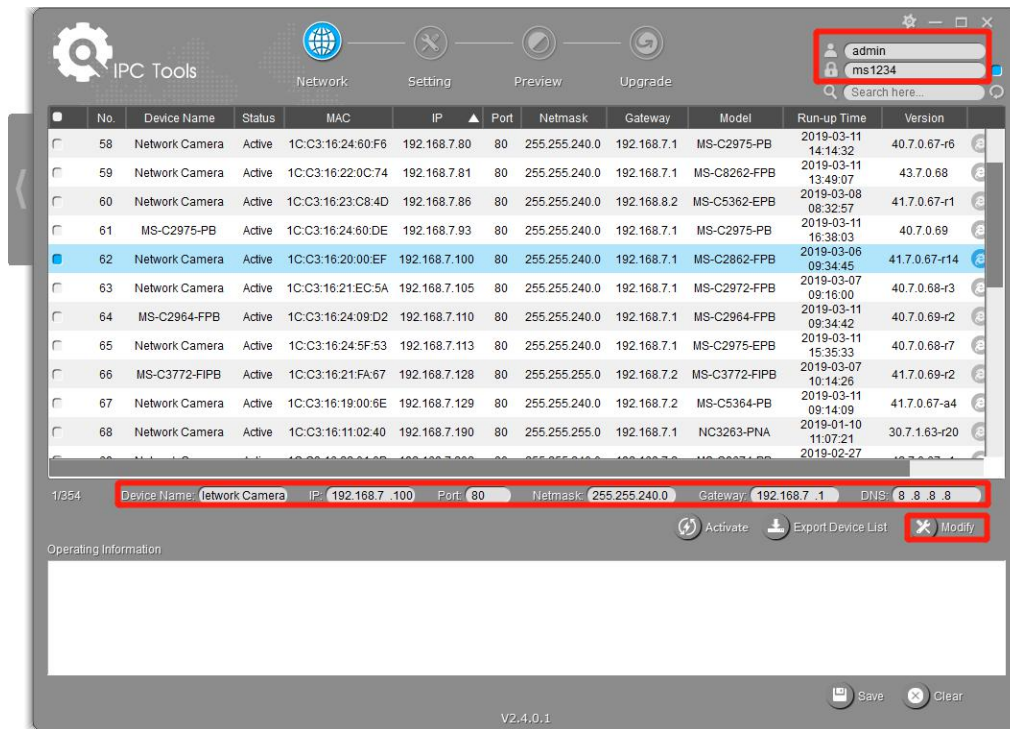


Select single camera



Select multiple cameras

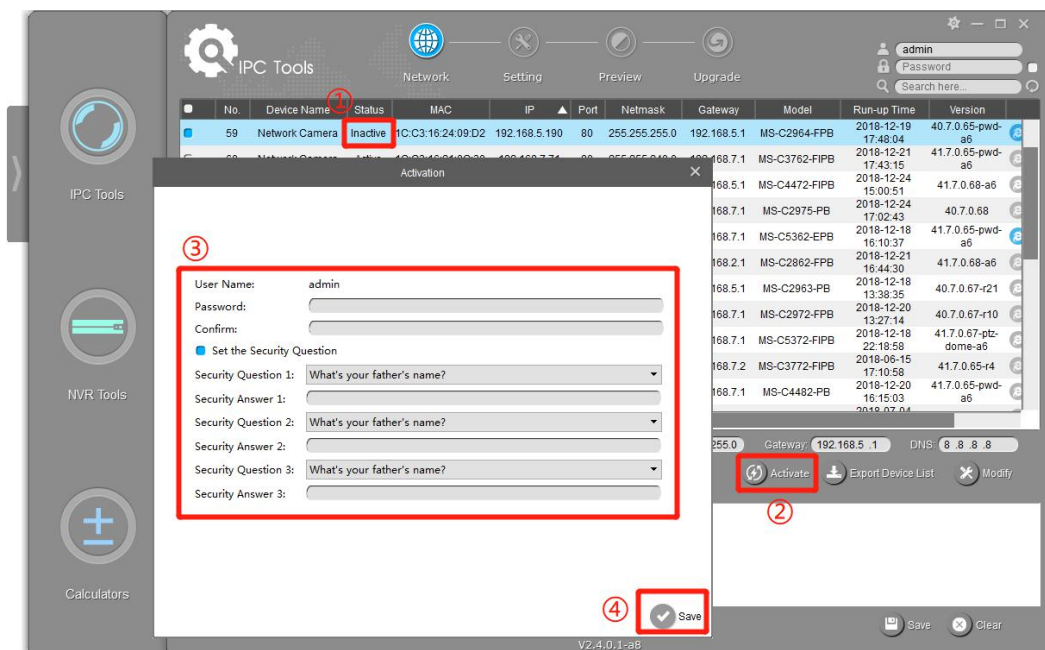
Step4: If the selected camera shows "Active" in the status bar, you can directly type the User Name and Password (Camera with version lower than 4x.7.0.69 is using admin/ms1234 by default), change the IP address or other network values, and then click "Modify" button;



If the selected camera shows "Inactive" in the status bar(Camera with version V4x.7.0.69 or above), click to set the password when using it for the first time. You can also set the security questions when activating the camera in case that you forget the password(You can reset the password by answering three security questions correctly). Click 'Save' and it will show that the activation was successful.

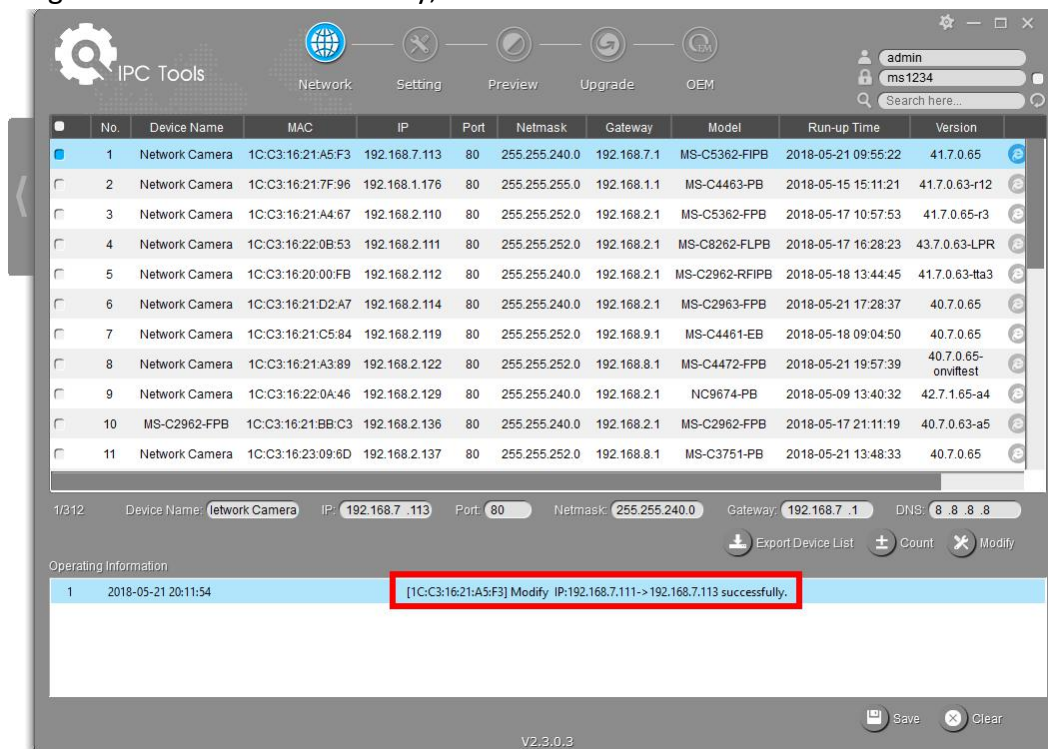
Note:

- (1) Password must be 8 to 32 characters long, contain at least one number and one letter.
- (2) You need to upgrade Smart Tools version to V2.4.0.1 or above to activate the camera.

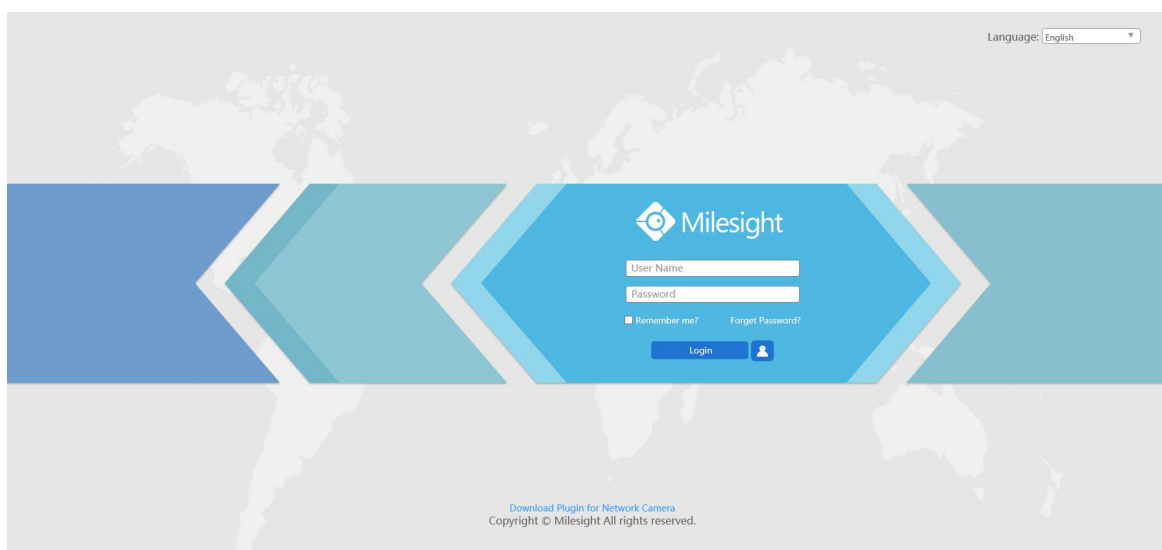


After activation, you can change the IP address or other network values, and then click "Modify" button.

Step5: Change the IP address successfully;



Step6: By double clicking the selected camera or the browser of interested camera, you can access the camera via web browser directly. The Internet Explorer window will pop up.



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 below:

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

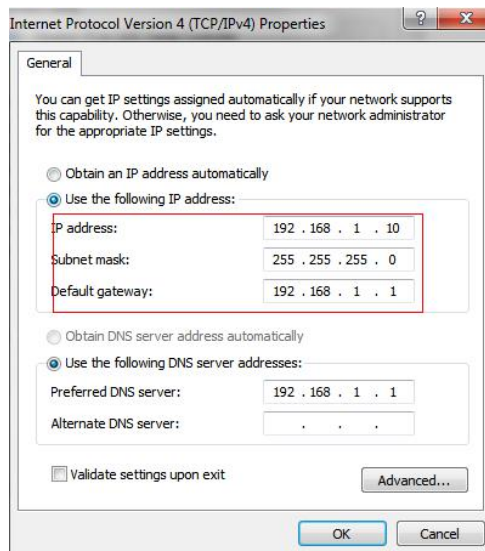
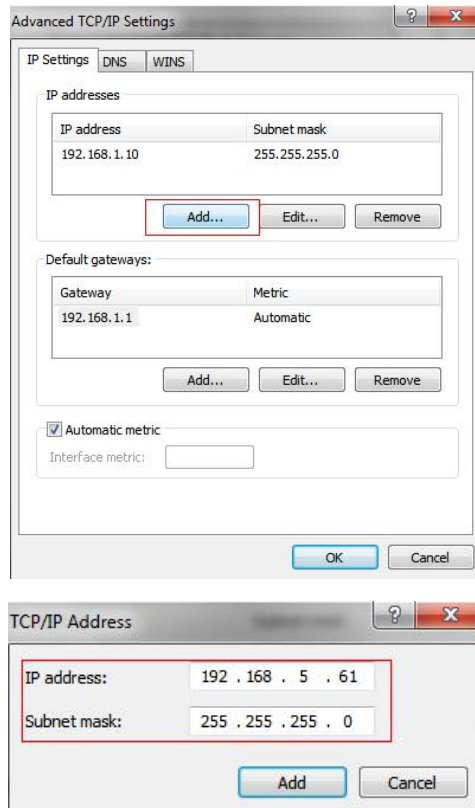


Figure 3-1-8 Setting Network Segment IP Address of Computer

- 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);

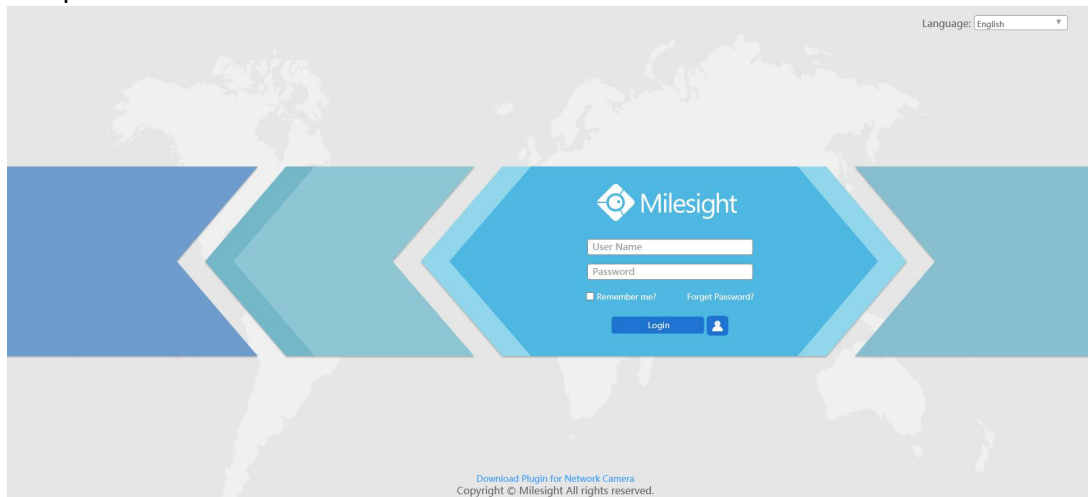


Step2: Start the browser. In the address bar, enter the default IP address of the camera:
<http://192.168.5.190>;

Step3: If the camera's firmware version is lower than V4x.7.0.69, it will directly display the login page, enter the user name and password when the LOGIN page appears;

Default user name: **admin**

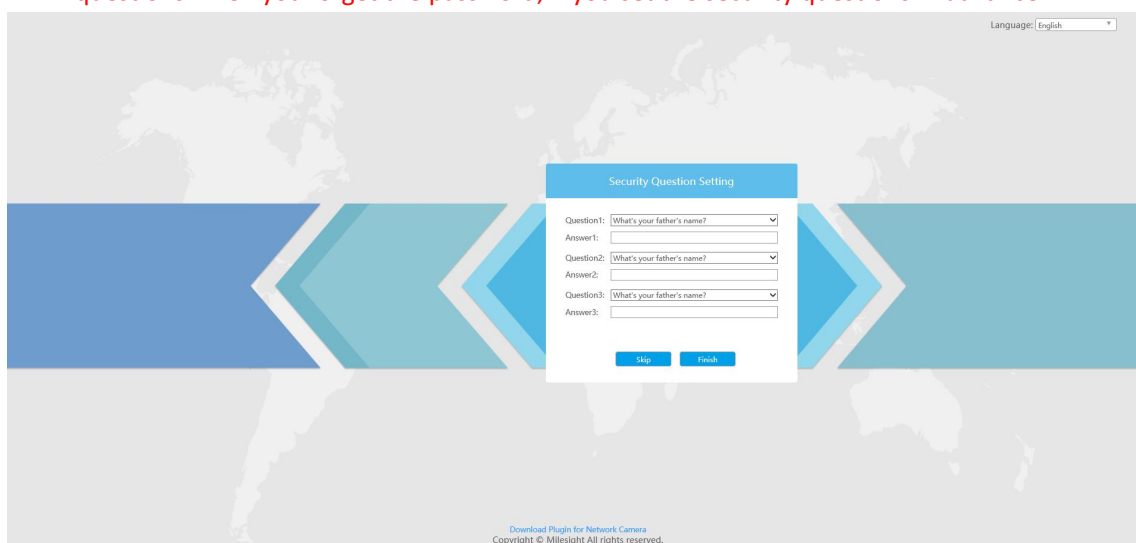
Default password: **ms1234**



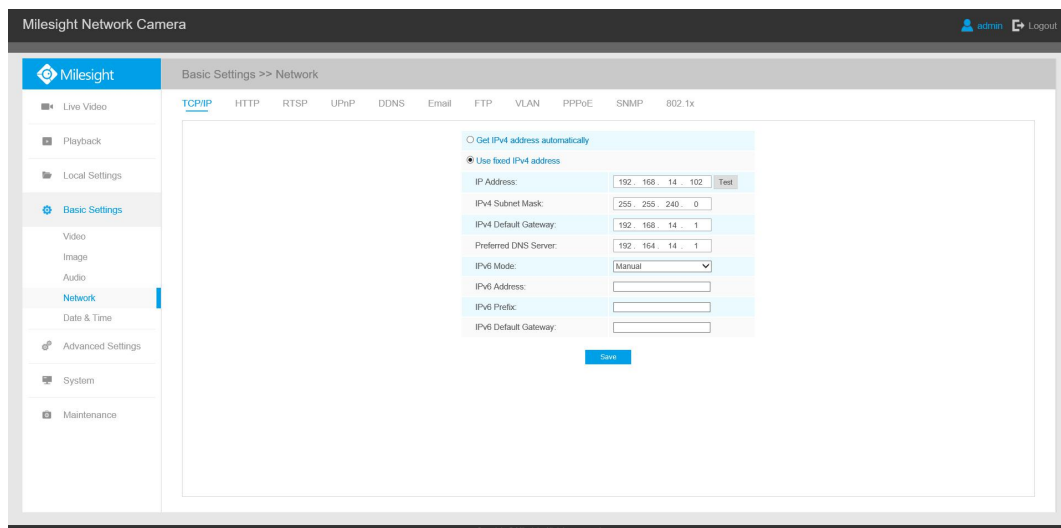
If the camera's firmware version is V4x.7.0.69 or above, you need to set the password first when using it for the first time. And you can also set three security questions for your device after activation. Then, you can log in the device with You can log in to the camera with the username(admin) and a custom password.

Note:

- (1) Password must be 8 to 32 characters long, contain at least one number and one letter.
- (2) You can click the "forget password" in login page to reset the password by answering three security questions when you forget the password, if you set the security questions in advance.



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



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, Microsoft Edge, Safari.

3.2.1 Access with Plugin

Currently you can only access the camera with plugin via Internet Explorer.

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;

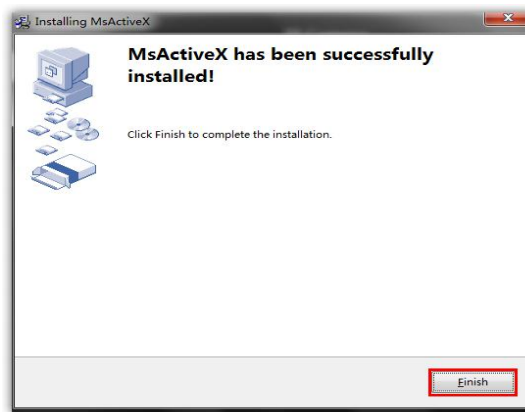
Step2: Enter the User Name and Password and click “Login”;

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 shown below;

Click here to download and install controls manually

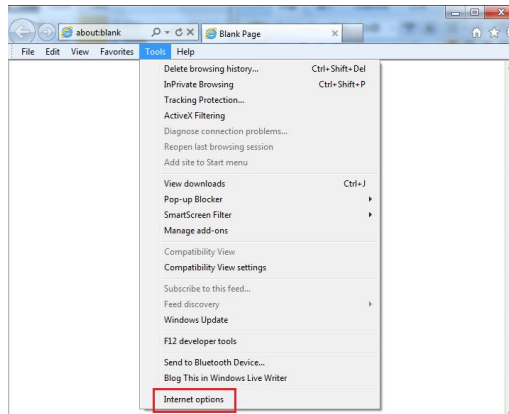
Note: During installing the controls, please keep the browsers close.

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

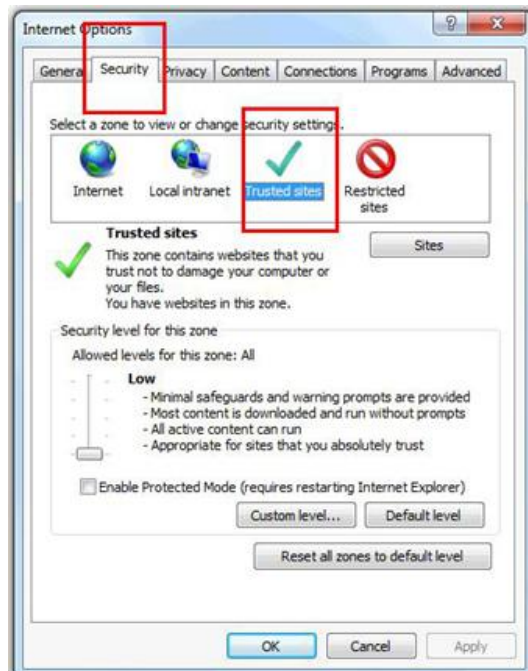


If IE9 or higher version browser is used, it is suggested that the Milesight camera web link should be added as a trusted site. See the instructions as follows:

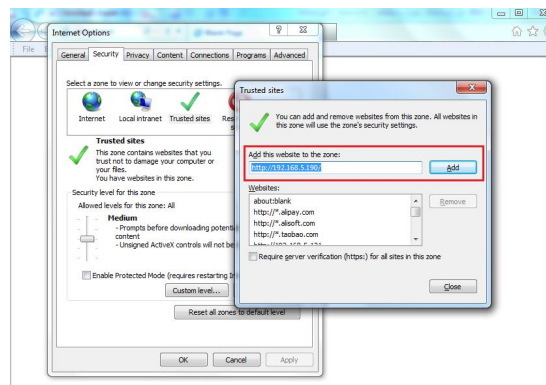
Step1: Start the IE9 or higher version browser, and select “Tools”→ “Internet Options”;



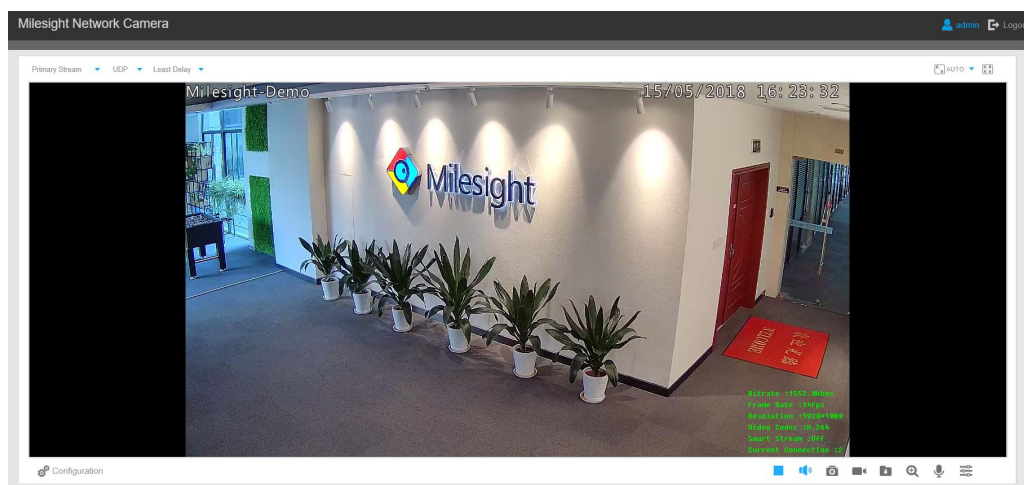
Step2: Select “Security” to “Trusted”;



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



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



3.2.2 Access without Plugin

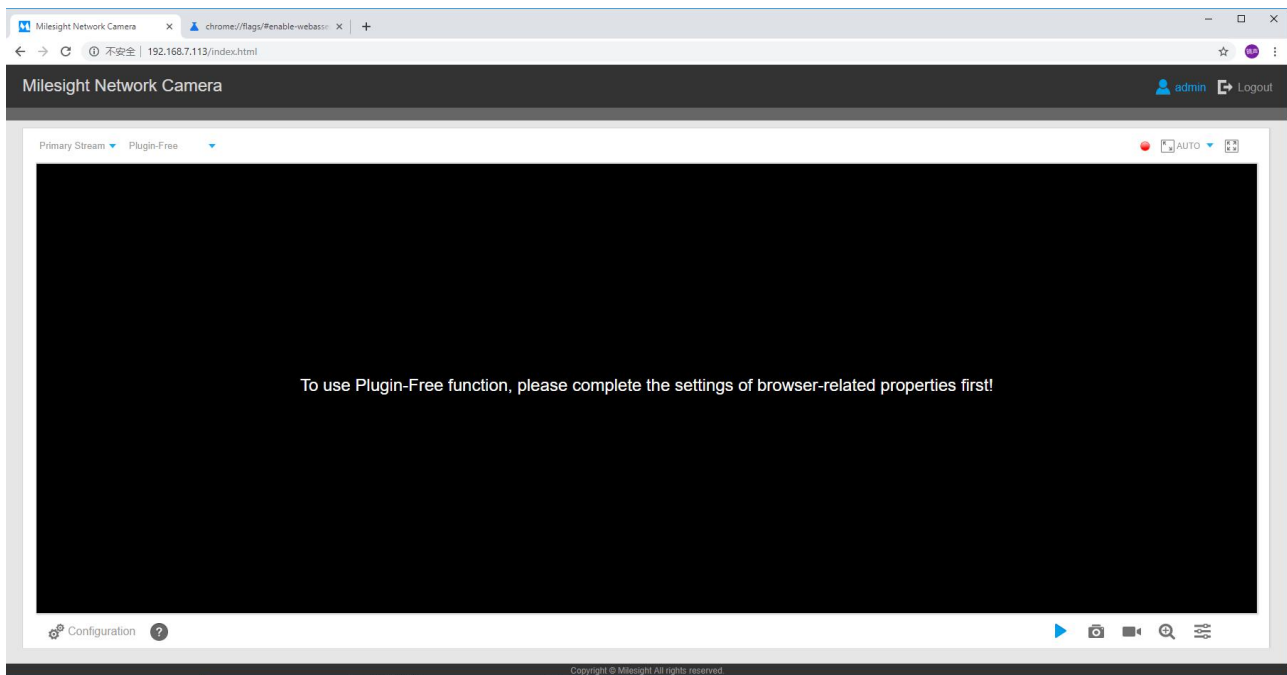
You can preview the video on the browser without plugin in Plugin-Free mode. Currently Plugin-Free mode is supported in Chrome and Firefox browser for Windows system, MAC system and Android system. Both H.265&H.264 video codec are supported in Plugin-Free Mode for camera, and it will play the secondary stream by default.


Note:

- ① You need to upgrade camera to V4x.7.0.70 or above to use Plugin-Free Mode.
- ② If you use Chrome browser, Plugin-Free mode is only supported when the browser version is V69 or above.
- ③ If you use Firefox browser, Plugin-Free mode is only supported when the browser version is V65 or above.

(1) On Chrome browser

Step1: Access camera via Chrome browser.



Step2: Click “” icon in the lower left corner of the webpage, you can refer to Plugin-Free Mode instruction below.

Plugin-Free Mode instruction:

Step 1:

Input the URL in address bar:

<chrome://flags/#enable-webassembly-threads>

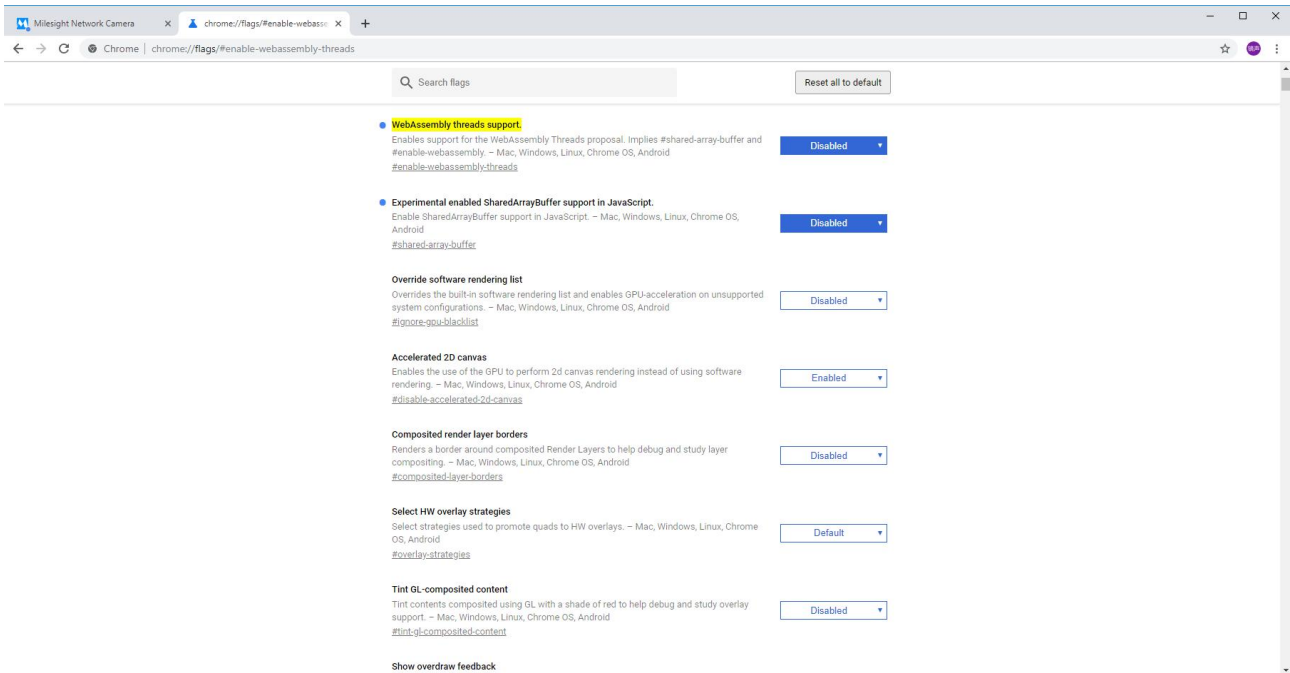
Step 2:

Set 2 flags to True status and reboot browser:

--WebAssembly threads support.

--Experimental enabled SharedArrayBuffer support in JavaScript.

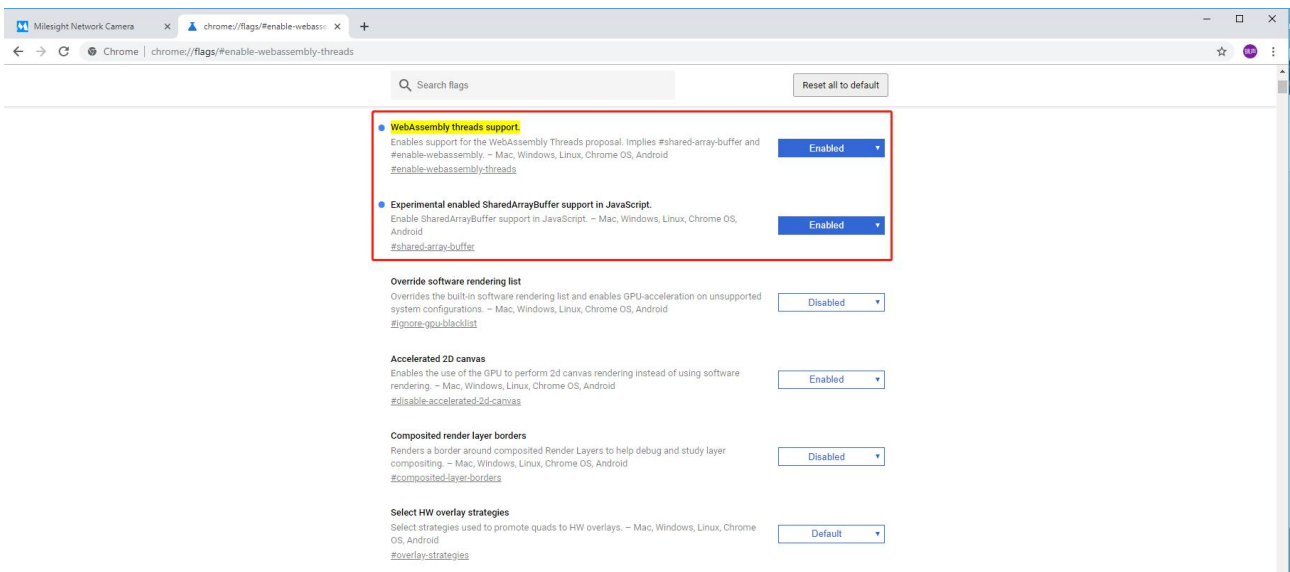
Step3: Input the URL in address bar: <chrome://flags/#enable-webassembly-threads>
You will enter the webpage shown below.



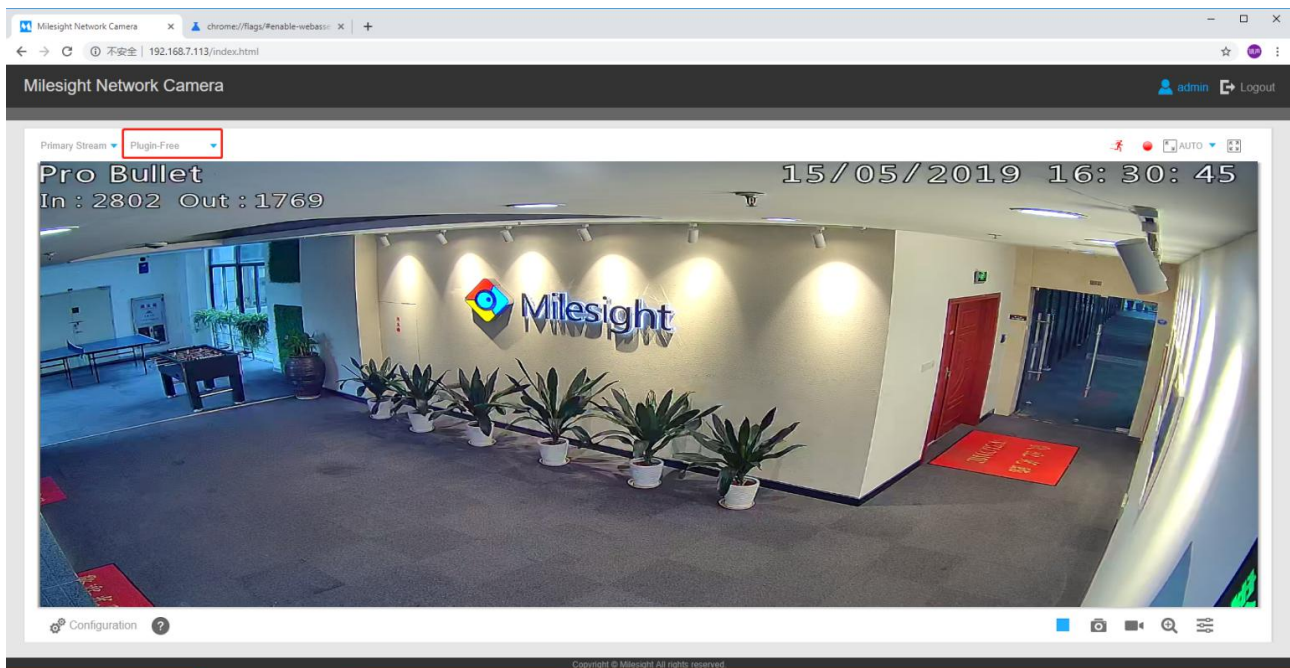
Step4: Set 2 flags to True status and reboot browser:

--WebAssembly threads support.

--Experimental enabled SharedArrayBuffer support in JavaScript



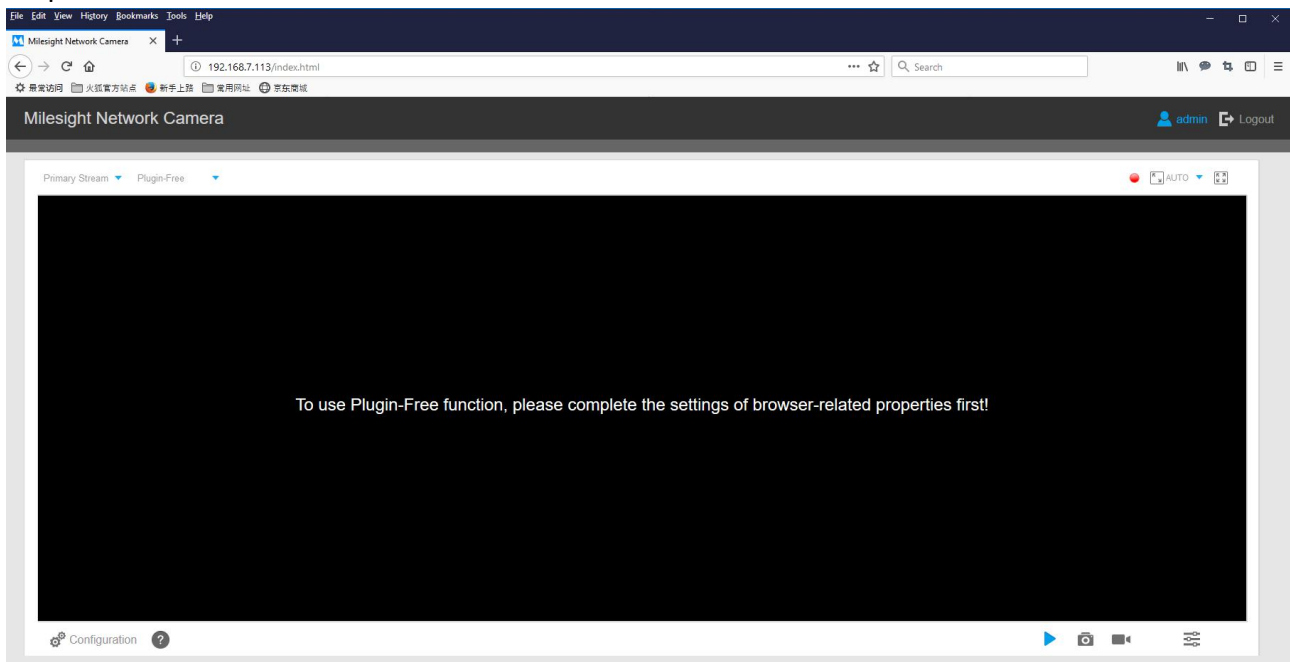
Step5: Then you can preview the video without plugin by selecting Plugin-Free mode in Live View interface.




It supports previewing the video in Live View and other setting interfaces.

(2) On Firefox browser

Step1: Access camera via Firefox browser.



Step2: Click “” icon in the lower left corner of the webpage, you can refer to Plugin-Free Mode instruction below.

Plugin-Free Mode instruction:

Step 1:

Input the URL in address bar:

<about:config>

And accept the requiring.

Step 2:

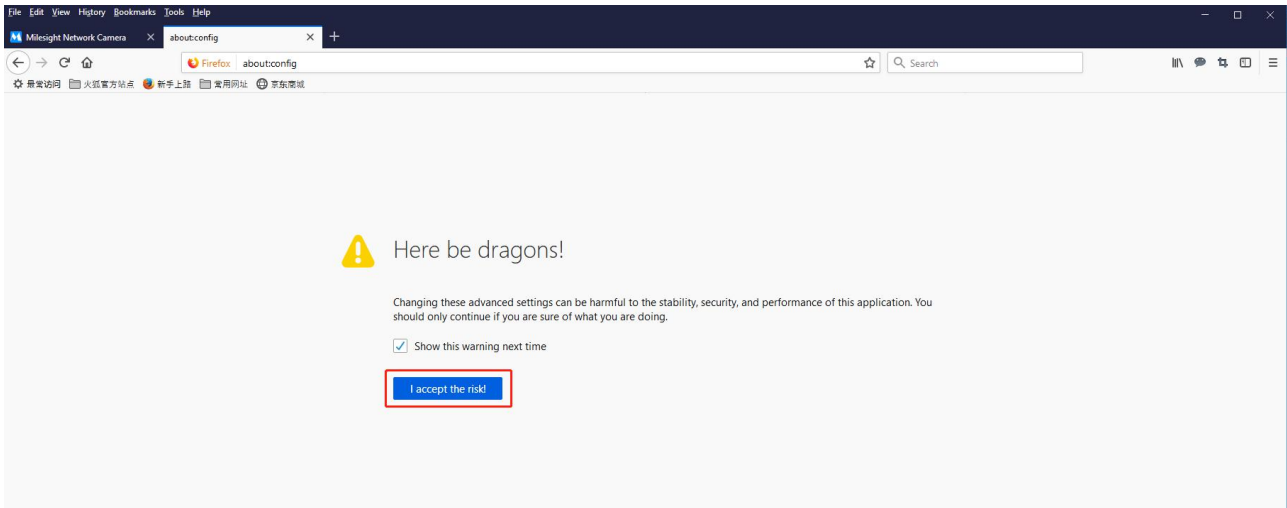
Set 2 flags to Enabled status and reboot browser:

--javascript.options.wasm.

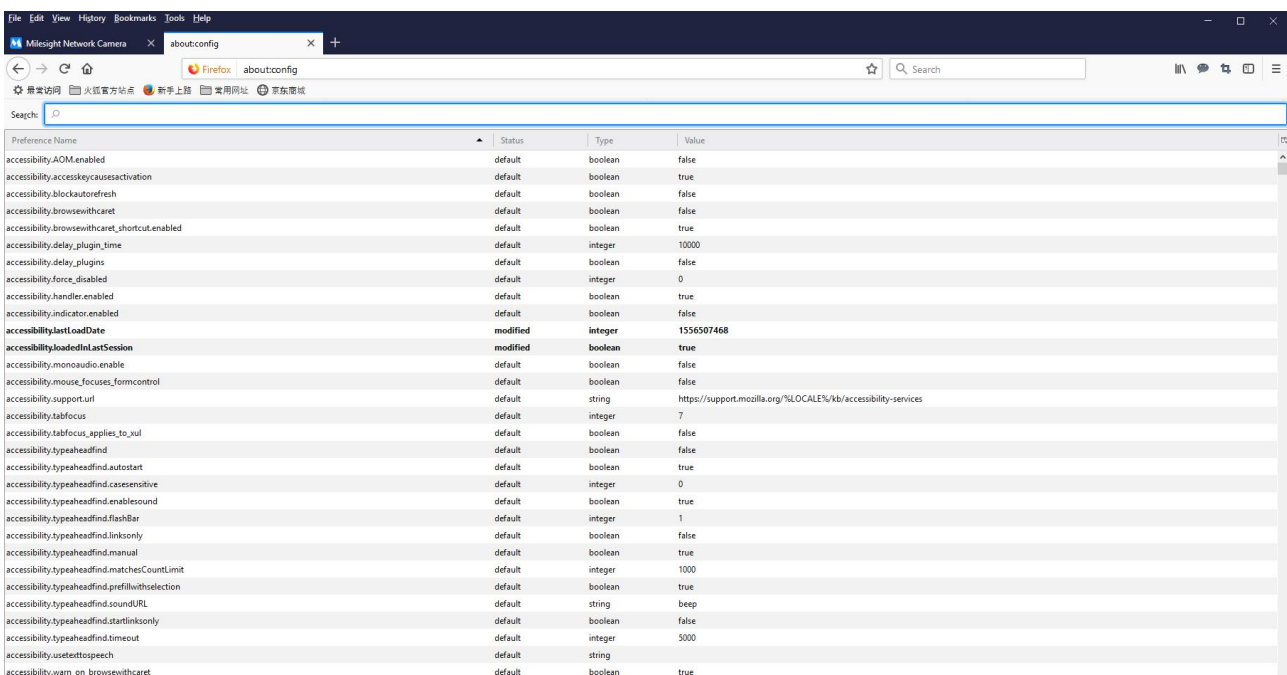
--javascript.options.shared_memory.

Step3: Input the URL in address bar: <about:config>

And accept the requiring.



You will enter the webpage shown below.



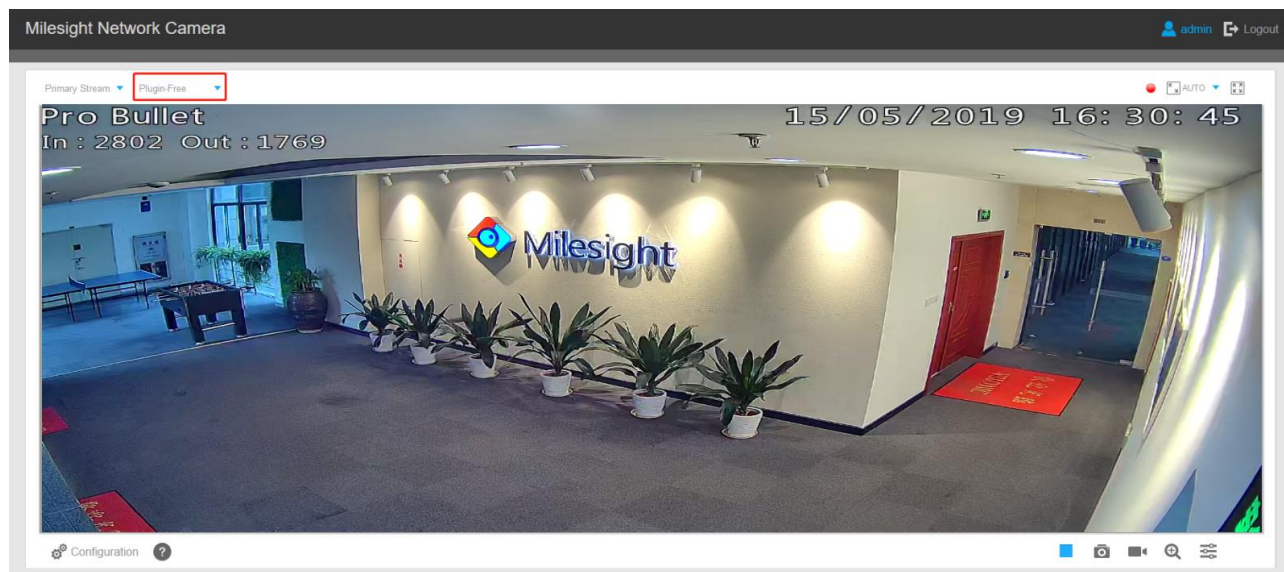
Step4: Set 2 flags to Enabled status and reboot browser:

```
--javascript.options.wasm.  
--javascript.options.shared_memory.
```

Preference Name	Status	Type	Value
javascript.options.wasm	default	boolean	true
javascript.options.wasm_baselinejit	default	boolean	true
javascript.options.wasm_ionjit	default	boolean	true
javascript.options.wasm_verbose	default	boolean	false

Preference Name	Status	Type	Value
javascript.options.shared_memory	modified	boolean	true

Step5: Then you can preview the video without plugin by selecting Plugin-Free mode.

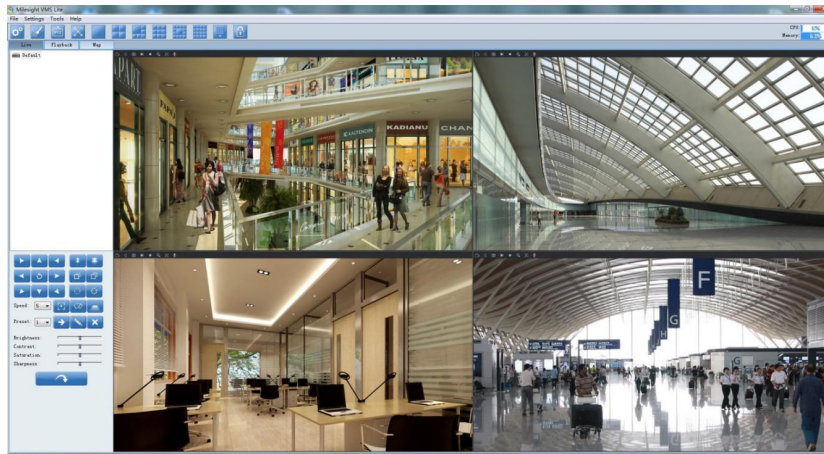


It supports previewing the video in Live View and other setting interfaces.

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.



Milesight VMS Live View

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.

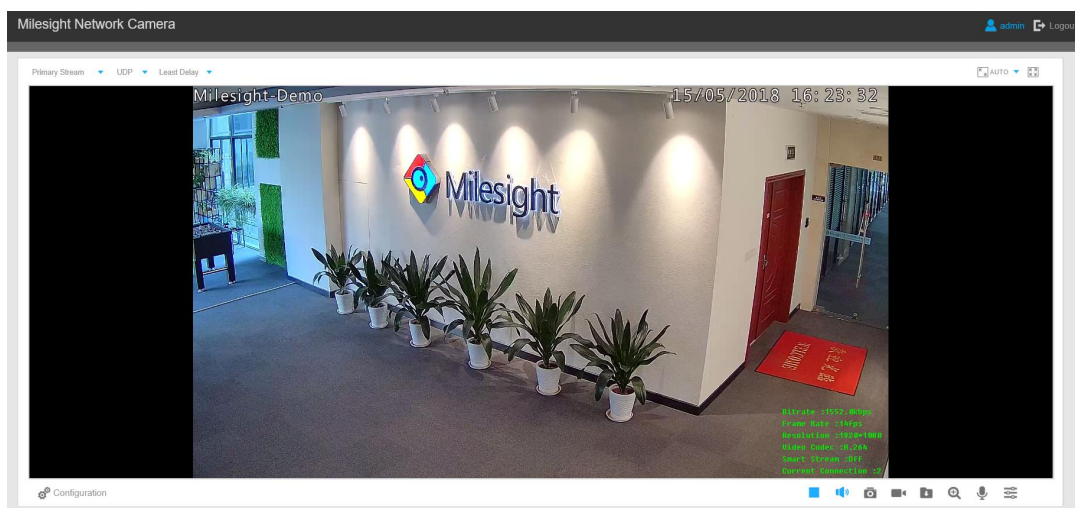


Table 4-1-1 Description of the buttons

No.	Parameter	Description
1	<p>Image Adjustment</p>	<p>Brightness: Adjust the Brightness of the scene</p> <p>Contrast: Adjust the color and light contrast</p> <p>Saturation: Adjust the Saturation of the image.Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out"</p> <p>Sharpness: Adjust the Sharpness of image. Higher Sharpness sharpens the pixel boundary and makes the image looks "more clear"</p> <p>Noise Reduction Level: Adjust the noise reduction level</p> <p>Default: Restore brightness, contrast and saturation to default settings</p>
2		Click to access the configuration page
3		Choose the Stream (Primary/Secondary/Tertiary) to show on the current video window
3		Only available for camera whose software version is 43 or above Web Components: Support Firefox, Safari, Chrome

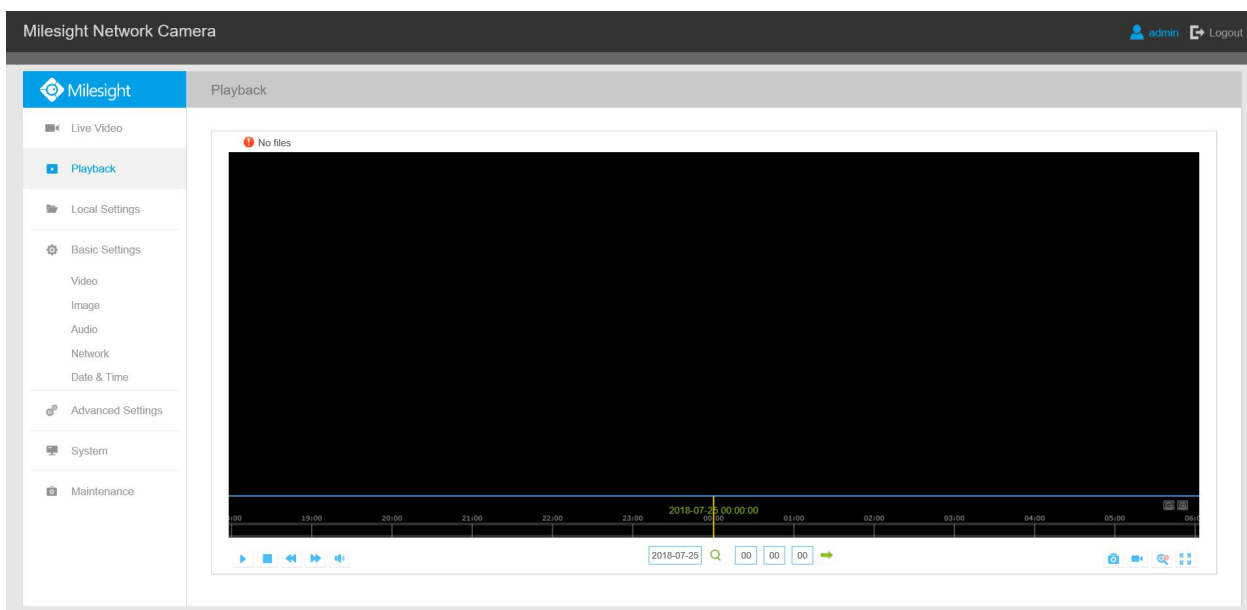
		<p>(Chrome version 44 or below); need to install the component to display the view;</p> <p>MJPEG: Support to display the view on Firefox, Safari, Chrome (Chrome version 45 or above);</p> <p>(NOTE: IE choose Web Components mode for default, in this case, it will not show the options)</p>
4		<p>TCP: More reliable connection;</p> <p>UDP: More instantaneous connection, but if you cannot get the live view successfully, please turn into TCP connection;</p> <p>HTTP: Faster and safer connection especially in Internet environment.</p>
5		<p>Least Delay: The most instantaneous mode;</p> <p>Balanced: A balanced mode between Least Delay and Best Fluency, maintains the fluency while keeps an acceptable delay;</p> <p>Best Fluency: The most fluent mode;</p>
6	<p>Window size</p>	Click to display images at a window size
7	<p>Real size</p>	Click to display images at a real size
8	<p>Full Screen</p>	Click to display images at full-screen
9	<p>Recording</p>	When recording, the icon will turn red
10	<p>Alarm</p>	When an alarm of Smart Event was triggered, the icon appears
11	<p>Alarm</p>	When an alarm of Motion Detection was triggered, the icon appears
12	<p>Alarm</p>	Except for the two kinds of alarms above, when other alarms were triggered, the icon appears
		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 P-Iris)
		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	 Capture	Click to capture the current image and save to the configured path. The default path is 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 Digital Zoom	When enabled, you can zoom in in a specific area of video image with your mouse wheel
20	 Start Talking	When it is enabled, you can start real-time talking.

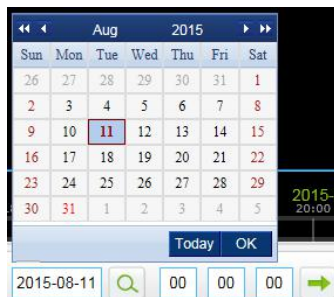
4.2 Playback

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

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




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

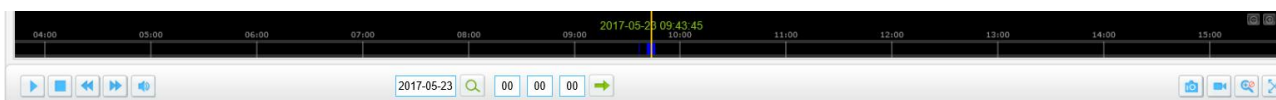


Note:

- 1) The date with bright red means current date; one with a dark red number and white background means weekend day; one with a dark red number and blue background means that the date is selected now.












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

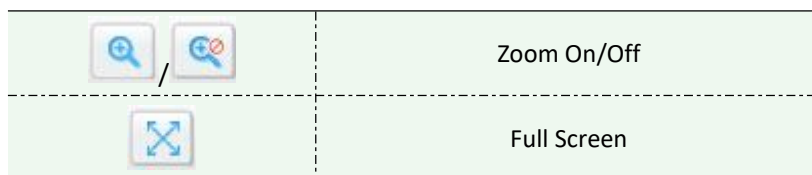
The toolbar on the button of playback interface can be used to control playing progress.






Playback Toolbar

Table 4-2-1 Description of the buttons

Button	Operation
	Play
	Pause
	Stop
	Speed Down
	Speed Up
	Audio On/Off
	Search
	Go To
	Time Narrow/Expand
	Start/Stop Recording
	Snapshot

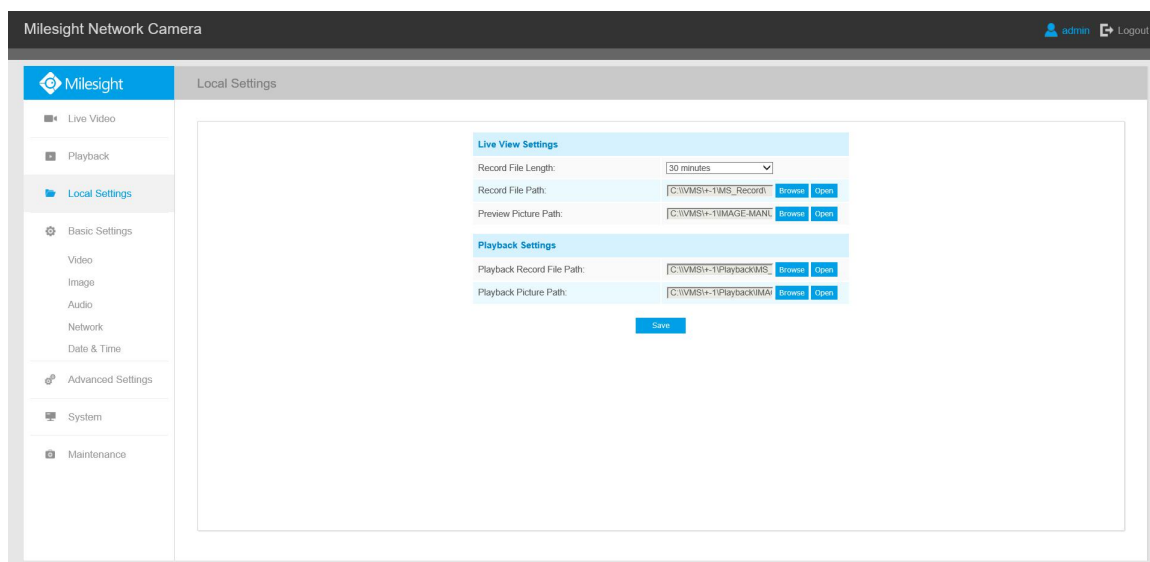
**Note:**

- 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* field. You can also click  /  to zoom out/in the progress bar.



4.3 Local Settings

Record File Length and storage path can be customized in this setting page.



4.4 Basic Settings

4.4.1 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 Tertiary Stream

Video Codec:	H.265
Frame Size:	1080P(1920*1080)
Maximum Frame Rate:	25 fps
Bit Rate:	4096 kbps
Smart Stream:	On
Level:	5
Bit Rate Control:	CBR
Profile:	Main
I-frame Interval:	50 frame(1-120)

Save

Secondary Stream Settings

Basic Settings >> Video

Primary Stream **Secondary Stream** Tertiary Stream

Enable:	<input checked="" type="checkbox"/>
Video Codec:	H.265
Frame Size:	640*480
Maximum Frame Rate:	25 fps
Bit Rate:	512 kbps
Smart Stream:	On
Level:	5
Bit Rate Control:	CBR
Profile:	Main
I-frame Interval:	50 frame(1-120)

Save

Tertiary Stream Settings

Basic Settings >> Video

Primary Stream Secondary Stream **Tertiary Stream**

Enable:	<input checked="" type="checkbox"/>
Video Codec:	H.264
Frame Size:	640*480
Maximum Frame Rate:	25 fps
Bit Rate:	1024 kbps
Smart Stream:	On
Level:	5
Bit Rate Control:	CBR
Profile:	Main
I-frame Interval:	50 frame(1-120)

Save

Table 4-4-1 Description of the buttons

Parameters	Function Introduction
Video Codec	<p>There are differences for the camera with “-A” and “-B”</p> <ul style="list-style-type: none"> -A: H.264/MJPEG are available -B: H.265/H.264/MJPEG are available

Frame Size	Options include 8M(3840×2160), 6M(3072×2048), 5M(2592*1944), 5M(2560*1920), 5M(2560*1440), 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). For Secondary Stream, it includes 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176. For Tertiary Stream, it include 1920*1080, 1280*720, 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176.
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
Smart Stream	Smart Stream mode remarkably reduces the bandwidth and the data storage requirements for network cameras while ensuring the high quality of images, and it is a 10-level adjustable codec. It is optional to turn On/Off Smart Stream mode. Level: Level 1~10 are available to meet your need.
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
Image Quality	Low/Medium/High are available, this item is optional only if you select VBR.
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 selected the MJPEG

Note:

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

4.4.2 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

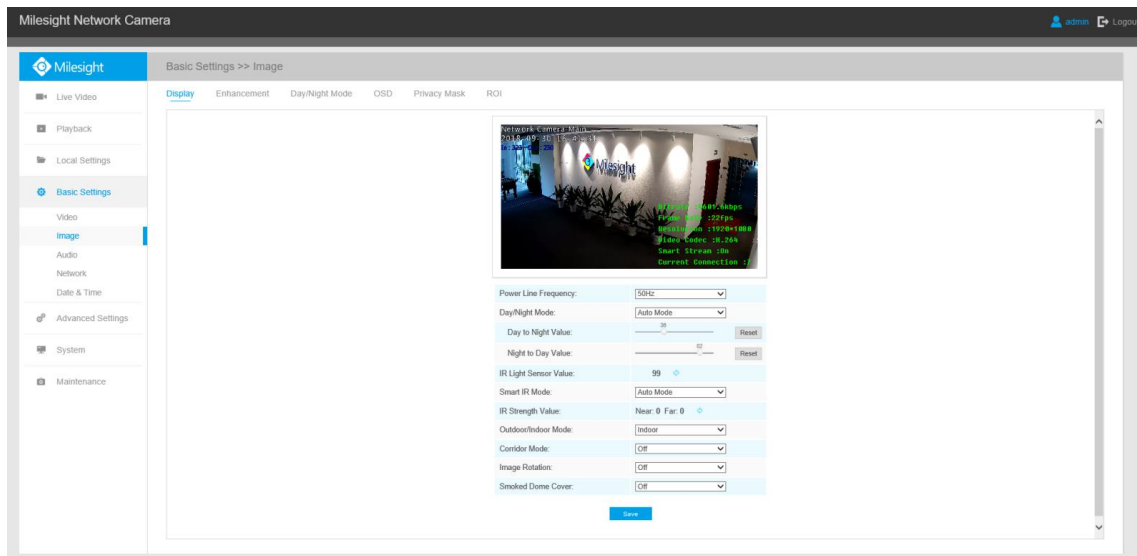
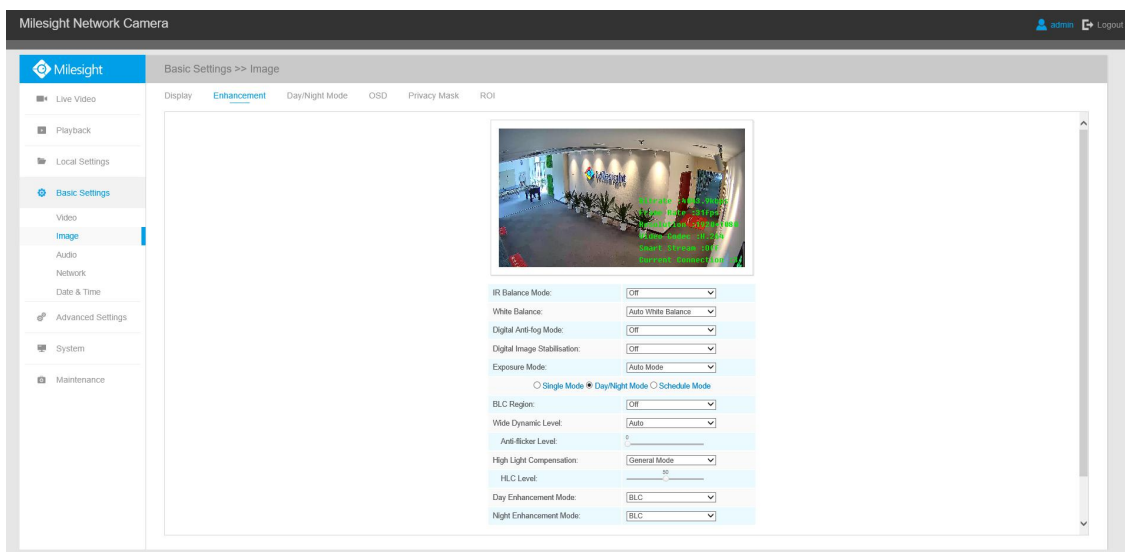


Table 4-4-2 Description of the buttons

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 Value	The current value of the IR light sensor
Smart IR Mode	With the combination of the High Beam and Low Beam, The IR LEDs technology

	has been upgraded to provide better image clarity and quality regardless of the object distance. Also, the Low Beam and High Beam's brightness can be adjusted manually or automatically on the basis of the Zoom ratio. Moreover, with the IR anti-reflection panel, the infrared light transmittance is highly increased. Support to set the strength of the IR to Auto Mode or Customize to achieve the best effect.
Near view level	Adjust the light strength of Low-Beams LED light level from 0 to 100.
Far view level	Adjust the light strength of High-Beams LED light level from 0 to 100.
IR Strength Value	The current value of Low-Beams LED and High-Beams LED light value
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs
Corridor Mode	There are three options available, you can select one to meet your need Off: Keep the image in normal direction Clockwise 90°: Rotate the image by 90° clockwise Anticlockwise 90°: Rotate the image by 90° anticlockwise
Image Rotation	There are four options available, you can select one to meet your need Off: Keep the image in normal direction Rotating 180°: Upside down the image Flip Horizontal: Flip the image horizontally Flip vertical: Flip the image vertically
Local Display Video	Select NTSC or PAL for local display
Smoked Dome Cover	This function is only for Pro Dome. If Pro Dome is equipped with a Smoked Dome Cover, enable this function to display a normal image.
Lens distort correct (Only for 180° Panoramic Mini Bullet)	There are two options available, you can select one to meet your need Off: Select the original image of 180° Panoramic Mini Bullet On: Select the dewarping image of 180° Panoramic Mini Bullet

Enhancement



Enhancement

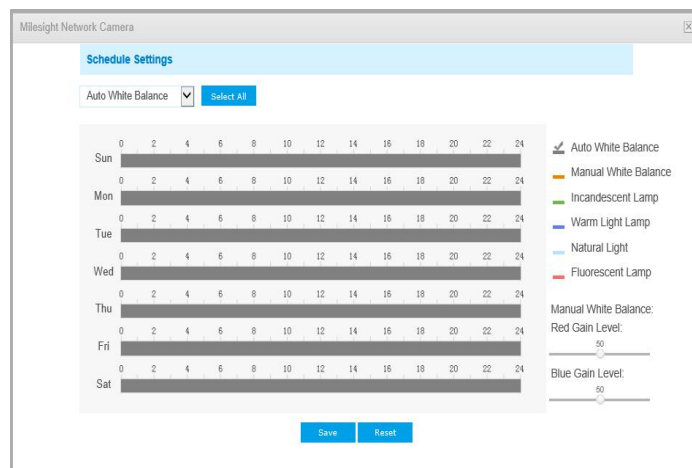
Table 4-4-3 Description of the buttons

Parameters	Function Introduction
IR Balance Mode	<p>There is an option to turn On/Off the IR LED.</p> <p>IR Balance Mode would avoid the problem of overexposure and darkness, and the IR LED will change according to the actual illumination.</p>
White Balance	<p>To restore white objects, removed color distortion caused by 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 other light but natural light</p> <p>Fluorescent Lamp: Select this option when light is similar with Fluorescent Lamp</p> <p>Schedule mode: Select this option that you can customize the schedule to enable/disable above modes</p>
Digital Anti-fog Mode	<p>Better image effect in foggy weather, refers to Figure 4-4-10</p>
Digital Image Stabilisation	<p>Decrease the blur and shakiness of the image.</p>
Exposure Mode	<p>Auto Mode, Manual Mode and Schedule Mode are available.</p> <p>Auto Mode: The camera will adjust the brightness according to the light environment automatically;</p> <p>Manual Mode: The camera will adjust the brightness according to the value you set, you can set the exposure time from 1~1/100000s, the higher the value is, the brighter the image is;</p> <p>Schedule Mode: You can customize the schedule to enable/disable Auto Mode and Manual Mode.</p>
Single Mode	<p>Set single mode for BLC/WDR/HLC.</p>
Day/Night Mode	<p>Support BLC/WDR/HLC on Day Enhancement Mode/Night Enhancement Mode separately.</p>
Schedule Mode	<p>Set schedule mode for BLC/WDR/HLC.</p>
BLC Region	<p>Off, Customize, and Centre are available (in single mode, 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 customize inclusive or exclusive region 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>

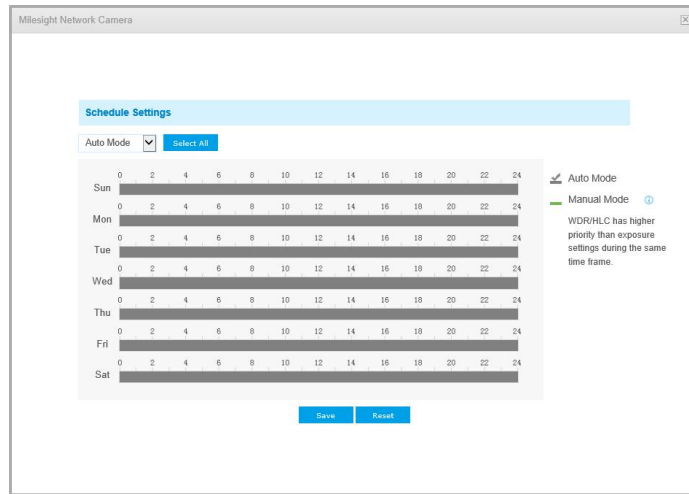
Wide Dynamic Range	<p>This function which can capture and display both bright and dark areas in the same frame enables details of objects in both bright and dark areas to be visible.</p> <p>Off: Disable WDR function</p> <p>On: Enable the WDR, there are Low/High/Auto three levels</p> <p>Customize: Customize the schedule to enable/disable the WDR function and set the levels with Low/High/Auto</p>
Wide Dynamic Level	Set WDR with Low/High/Auto level
Anti-flicker Level	Reduce flickers that appear on screen in some lighting conditions and there are 10 levels of anti-flicker adjustments
High Light Compensation	<p>This function is only for H.265 series to adjust the brightness to a normal range when the light is strong, refers to Figure 4-4-11</p> <p>Off: Disable HLC function</p> <p>General Mode: Enable the general mode of HLC, and there is a setting for HLC Level</p> <p>Enhanced Mode: Enable the enhanced mode of HLC, and there is a setting for HLC Level</p>
HLC Level	Select level for HLC
Day Enhancement Mode	BLC/WDR/HLC are available.
Night Enhancement Mode	BLC/WDR/HLC are available.
Schedule Setting	Customize the schedule to enable/disable BLC/WDR/HLC mode

Note:

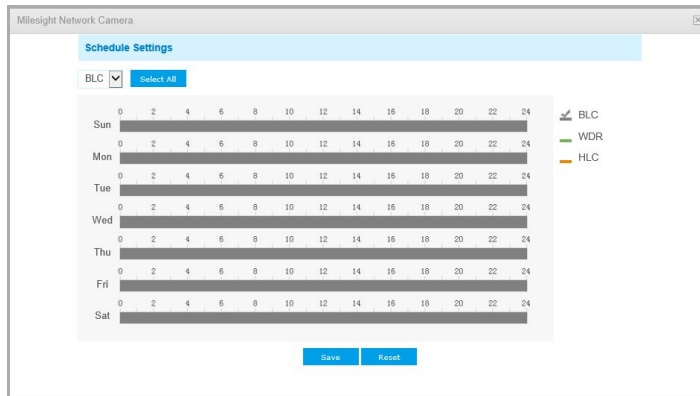
1) You can customize the schedule to enable/disable the difference White Balance modes.



2) You can customize the schedule to enable/disable the difference exposure modes.

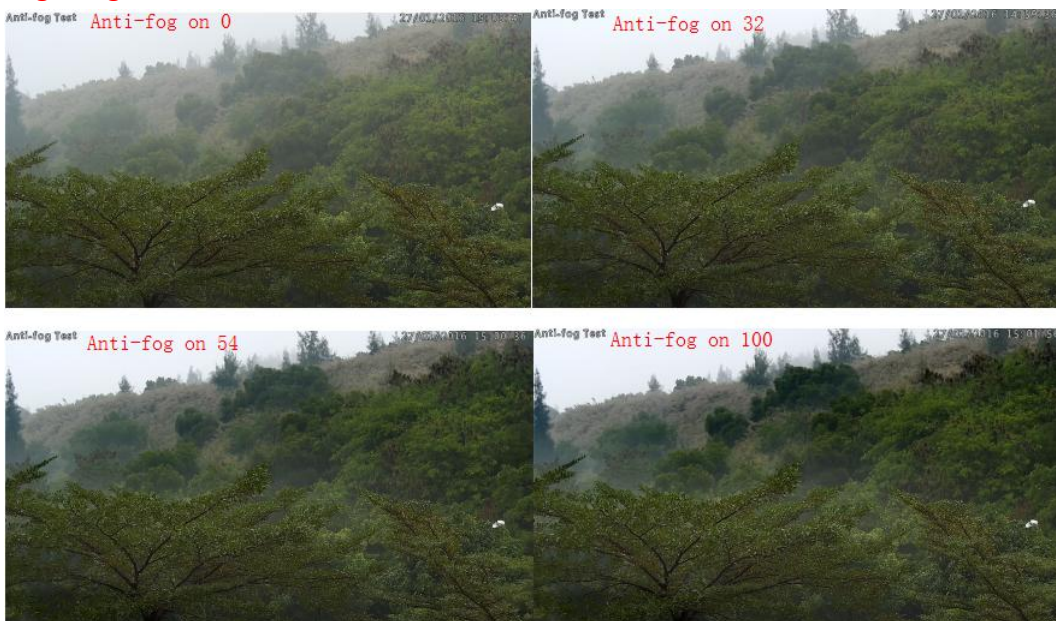


3) You can customize the schedule to enable/disable BLC/WDR/HLC mode.



4) WDR/HLC has higher priority than exposure settings at the same time frame.

5) Anti-fog Image.



6) HLC Image.



Day/Night Mode

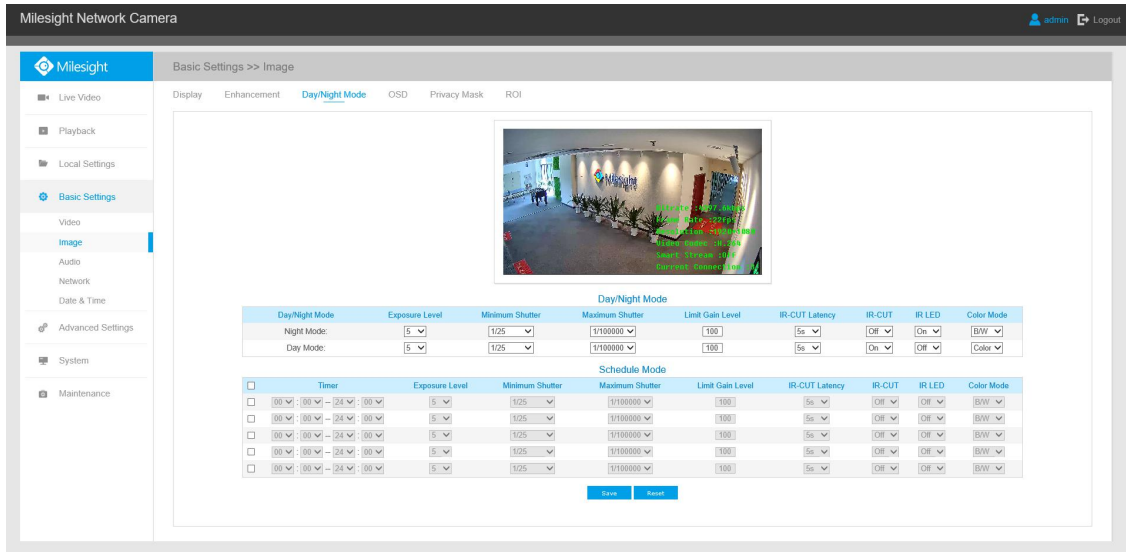


Table 4-4-4 Description of the buttons

Parameters	Function Introduction
Exposure Level	Level 0~10 are available to meet your need
Minimum Shutter	Minimum Shutter is the same as Maximum Exposure Time. Set the minimum Shutter to 1~1/100000s
Maximum Shutter	Maximum Shutter is the same as Minimum Exposure Time. Set the maximum Shutter to 1~1/100000s
IR-CUT Latency	The interval time of switching one mode to another
IR-CUT	Turn on or turn off IR-CUT
IR LED	Turn on or turn off IR-LED
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)

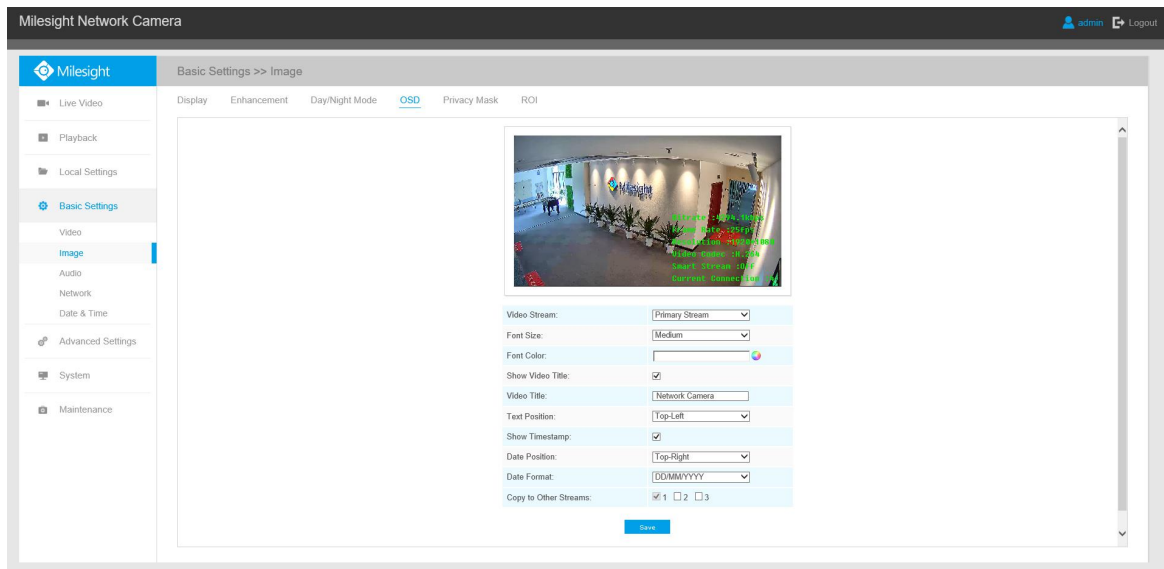


Table 4-4-5 Description of the buttons

Parameters	Function Introduction
Video Stream	Enable to set OSD for primary stream and secondary stream
Font Size	Smallest/Small/Medium/Large/Largest/Auto are available for title and date
Font Color	Enable to set different color for title and date
Show Video Title	Check the checkbox to show video title
Video Title	Customize the OSD content
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

Privacy Mask

Privacy mask enables to cover certain areas on the live video to prevent certain spots in the surveillance area from being viewed and recorded. You can set four mask areas at most.

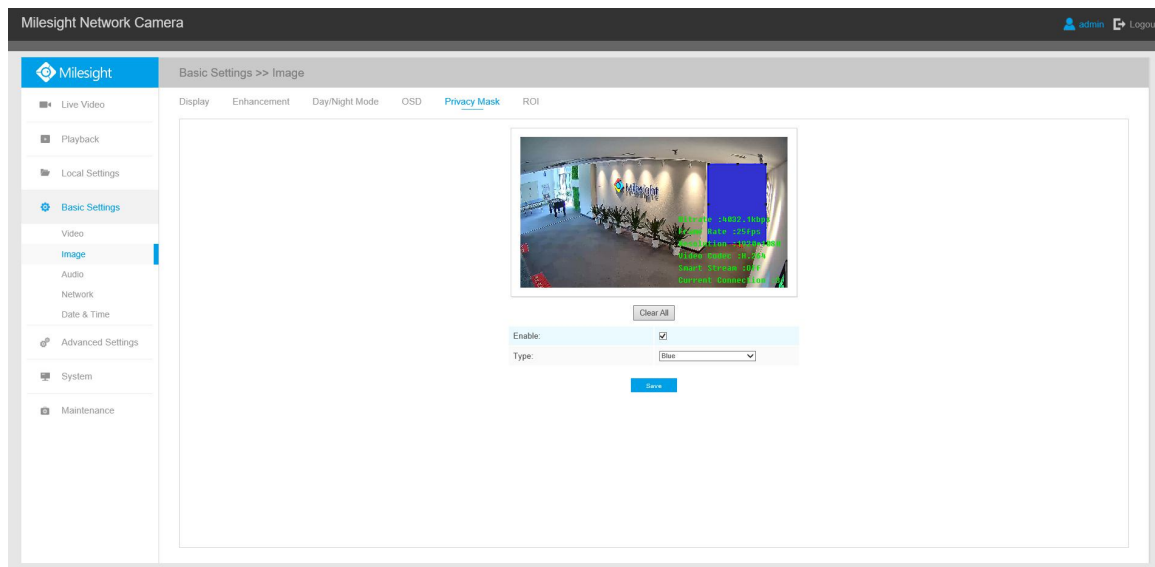


Table 4-4-6 Description of the buttons

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 eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and Violet

ROI

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 through 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.

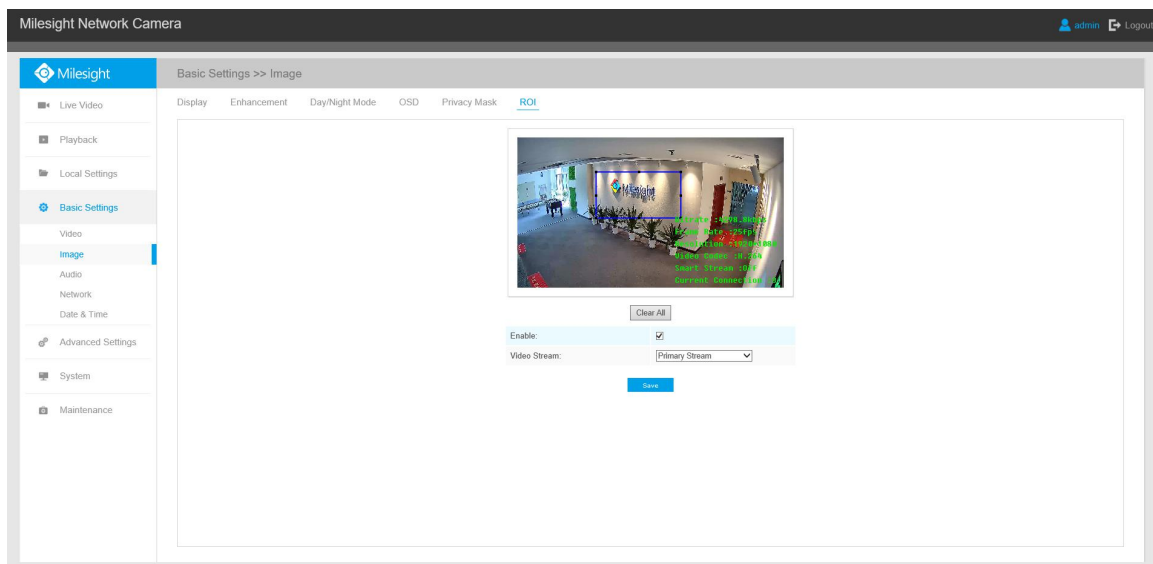


Table 4-4-7 Description of the buttons

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:

You can set a low bit rate. For example, you can set a bit rate with 512Kbps and a resolution with 1080P, then you can see the image quality of ROI is more clear and fluent than the other region.

4.4.3 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.

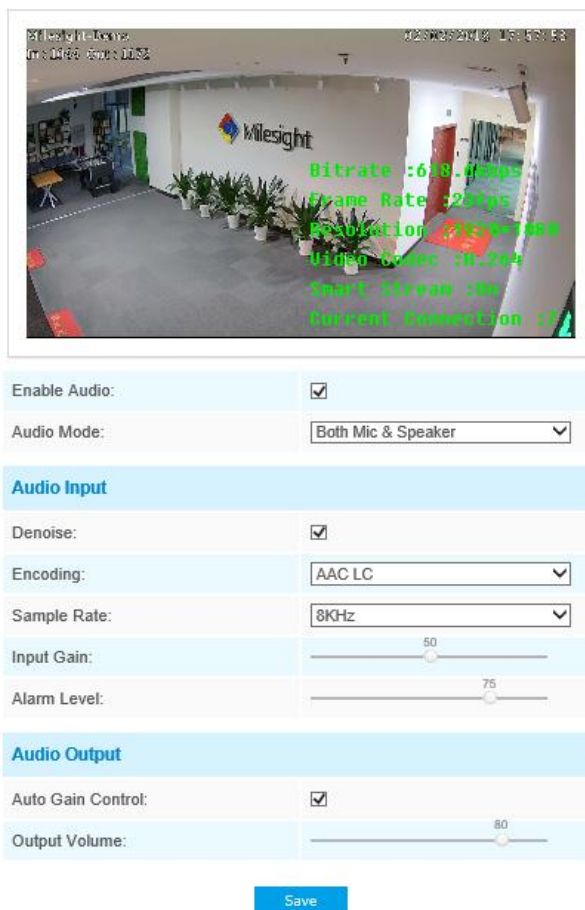


Table 4-4-8 Description of the buttons

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, 1-100</p>
Audio Output	<p>Auto Gain Control: This function is only for H.265 series, improve the quality of audio</p> <p>Output Volume: Adjust volume of output</p>

You can upload up to 5 audio files manually to Flash or SD Card on the Audio web page and you can also edit the audio file's name when upload.

Audio File Storage Type:

Audio File Upload

Audio File Name:

Audio File:

ID	Audio File Name	Delete
1	audio	<input type="button" value="✘"/>

Note: Only support '.wav' audio files with codec type PCM/PCMU/PCMA, 64kbps or 128kbps bitrate and no more than 500k!

Note:

- 1) The Audio mode and Audio Output are only for certain modules.
- 2) Only support '.wav' audio files with codec type PCM/PCMU/PCMA, 64kbps or 128 kbps and no more than 500k.

4.4.4 Network

TCP/IP

Get IPv4 address automatically

Use fixed IPv4 address

IP Address:

IPv4 Subnet Mask:

IPv4 Default Gateway:

Preferred DNS Server:

IPv6 Mode:

IPv6 Address:

IPv6 Prefix:

IPv6 Default Gateway:

Table 4-4-9 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 to identify the subnet where the network camera is located</p> <p>IPv4 Default Gateway: The default router address</p> <p>Preferred DNS Server: 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 Gateway: The default router IPv6 address</p>
-----------------------------	--

Note:

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

HTTP

Table 4-4-10 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 Settings	Upload and set the SSL certificate .
----------------------	--------------------------------------

HTTP URL are as below:

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

Note:

You need to change the codec type of streams to MJPEG except 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(0~63):	<input type="text" value="0"/>	

Save

Table 4-4-11 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 below:

Stream	URL
--------	-----

Main Stream	rtsp://username:password@IP:port/main
Secondary Stream	rtsp://username:password@IP:port/sub
Tertiary Stream	rtsp://username:password@IP:port/third

Note:

- 1) Get the format of RTSP URL by clicking “” on the right side of RTSP Port.
- 2) Get the playback tip by clicking “” on the right side of Playback Port.
- 3) 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.
- 4) A reboot is required for the settings to take effect.
- 5) The tertiary stream is only equipped on camera whose model with “-A” or “-B”.

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
Playback	<input type="text" value="25202"/>	<input type="text" value="555"/>	Invalid

Table 4-4-12 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	<p>Auto: Automatically obtain the corresponding HTTP and RTSP port, without any settings</p> <p>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</p>

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:	<input type="checkbox"/>
Provider:	ddns.milesight.com ▼
External HTTP Port :	80
External RTSP Port:	554
External Playback Port:	555
DDNS URL:	http://ddns.milesight.com/210C1E

Note: Recommend to enable and configure UPnP ports which can be used directly in DDNS.

[Save](#)

You can choose “ddns.milesight.com” as provider for DDNS. After enabling it, you can access the device via the URL “http://ddns.milesight.com/MAC address” .

Table 4-4-13 Description of the buttons

Parameters	Function Introduction
Enable DDNS	Check the checkbox to enable DDNS service
Provider	Get support from DDNS provider: ddns.milesight.com, freedns.afraid.org, dyndns.org, www.no-ip.com, www.zoneedit.com. You can also customize the provider for DDNS.
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

Note:

- 1) Please do the Port Forwarding of HTTP Port and RTSP Port before you use Milesight DDNS.
- 2) Make sure that the internal and the external port number of RTSP are the same.

Email

Alarm video files can be sent to specific mail account through SMTP server. You must configure the email 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="*****"/>
SMTP Server:	<input type="text" value="smtp.sina.com"/>
SMTP 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

Table 4-4-14 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
SMTP Server	The SMTP server IP address or host name(e.g. smtp.gmail.com)
SMTP Port	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.

FTP Server Settings	
Server Address:	<input type="text" value="192.168.8.72"/>
Server Port:	<input type="text" value="21"/>
User Name:	<input type="text" value="admin"/>
Password:	<input type="password" value="*****"/>
FTP Storage Settings	
Storage Path:	<input type="text" value="Child Directory"/>
Parent Directory:	<input type="text" value="IP Address"/>
Child Directory:	<input type="text" value="Device Name"/>
Alarm Action File Name:	<input type="text" value="Customize"/>
Video File Name:	<input type="text" value="YYYY-MM-DD"/>
Image File Name:	<input type="text" value="YYYY-MM-DD"/>
Timing Snapshot File Name:	<input type="text" value="Default(YYYY-MM-DD)"/>

Table 4-4-15 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
Storage Path	Storage Path where video and image will be uploaded to the FTP server. Four FTP storage path types are available, including Root Directory, Parent Directory, Child Directory and Customize.
Parent Directory	Choose IP Address/ Device Name/ Date as the folder name of Parent Directory, or customize the folder name.
Child Directory	Choose IP Address/ Device Name/ Date as the folder name of Child Directory, or customize the folder name.
Multilevel Folder Name	If the storage path is more than two levels, enter Multilevel FTP storage path here manually.
Alarm Action File Name	Choose the default(YYYY-MM-DD) or customize the alarm action file name.

Video File Name	If you choose to customize the alarm action file name, YYYY-MM-DD/MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.
Image File Name	If you choose to customize the alarm action file name, YYYY-MM-DD/MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.
Timing Snapshot File Name	Default(YYYY-MM-DD) /MM-DD-YYYY/ DD-MM-YYYY/ Add prefix/ Overwrite with the base file name are available.

Note:

Parent Directory will be under Root Directory, and Child Directory will be under Parent Directory.

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" value="- . - . -"/>
VLAN Netmask:	<input type="text" value="- . - . -"/>
VLAN Gateway:	<input type="text" value="- . - . -"/>

[Save](#)

Note:

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="text"/>
Confirm Password:	<input type="text"/>

[Save](#)

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.

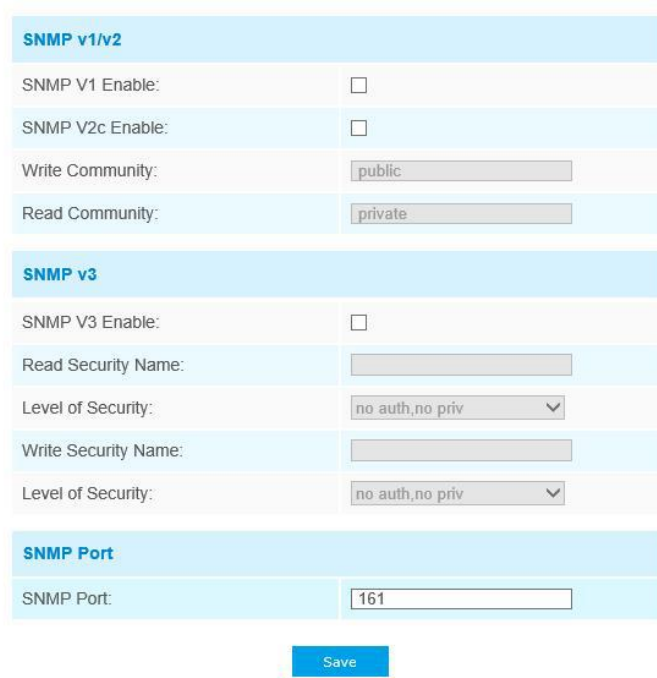


Table 4-4-16 Description of the buttons

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

802.1x

The IEEE 802.1X standard is supported by the network cameras, and when the feature is enabled, the camera data is secured and user authentication is needed when connecting the camera to the network protected by the IEEE 802.1X.

Enable 802.1x:	<input checked="" type="checkbox"/>
Protocol:	EAP-MD5 <input type="button" value="v"/>
Eapol Version:	1 <input type="button" value="v"/>
User Name:	<input type="text"/>
Password:	<input type="text"/>
Confirm Password:	<input type="text"/>

4.4.5 Date&Time

Current System Time	
Date:	03/02/2018
Time:	01:42:00
Set the System Time	
Time Zone:	-8 United States - Pacific Time <input type="button" value="v"/>
Daylight Saving Time:	Disabled <input type="button" value="v"/>
NTP Sync:	<input checked="" type="checkbox"/> Interval: 1 day <input type="button" value="v"/>
<input type="radio"/> Synchronize with computer time	
Date:	03/02/2018
Time:	17:41:59
<input type="radio"/> NTP server	
<input type="radio"/> Manual	

Current System Time

Current date&time of the system

Set the System Time

Table 4-4-17 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
Manual	Set the system time manually

4.5 Advanced Settings

4.5.1 Alarm

Motion Detection

Step1: Check the checkbox to enable the motion detection;

Step2: Set motion region;

Enable Motion Detection:

Onvif Motion ActiveCells Settings: Normal

Set Motion Region

Select All
Clear All

(Please draw the screen for setting!)

Sensitivity
5

Table 4-5-1 Description of the buttons

Parameters	Function Introduction
Enable Motion Detection	Check the checkbox to enable Motion Detection function
Onvif Motion ActiveCells Settings	Normal and Compatible are available for the option. If the setting of motion region of the third-party software is different from ours, please set this option to Compatible.
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

Step3: Set motion detection schedule;



Step4: Set alarm action;

Alarm Action	
Save Into Storage:	<input type="checkbox"/> File Format: Record (Please mount storage device.)
Upload Via FTP:	<input type="checkbox"/> File Format: Record
Upload Via SMTP:	<input type="checkbox"/> File Format: Snapsho
External Output:	<input type="checkbox"/> (Please configure the External Output Action Time.)
Play Audio:	<input type="checkbox"/> (Please configure the Audio Action Settings and Audio Interval.)
Alarm to SIP Phone:	<input type="checkbox"/> (Please open the SIP.)
HTTP Notification:	<input type="checkbox"/>

Table 4-5-2 Description of the buttons

Parameters	Function Introduction
Save Into Storage	Save alarm recording files into SD Card or 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 Notification:	<input checked="" type="checkbox"/>
HTTP Notification URL:	192.168.8.75:8601/Interface/Cameras/MotionDetection/Notify?Camera=annie
HTTP User Name:	admin
HTTP Password:	•••••

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

HTTP Password: ms1234 (the password of your camera)

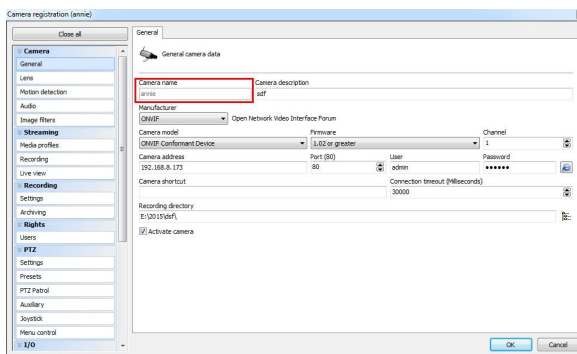
HTTP Notification URL:

<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 Motion signal in Digifort.

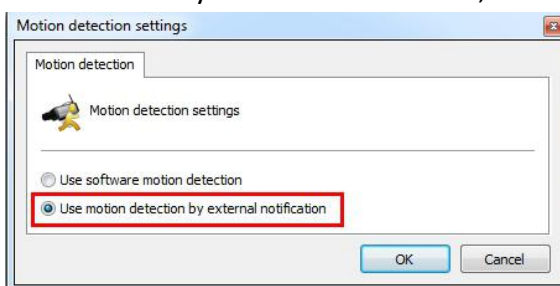
CameraName is the camera name you set in Digifort VMS, like the picture shown below.



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 successful, you can see the device icon turns yellow in the Surveillance when the camera is under Motion Detection Alarm;



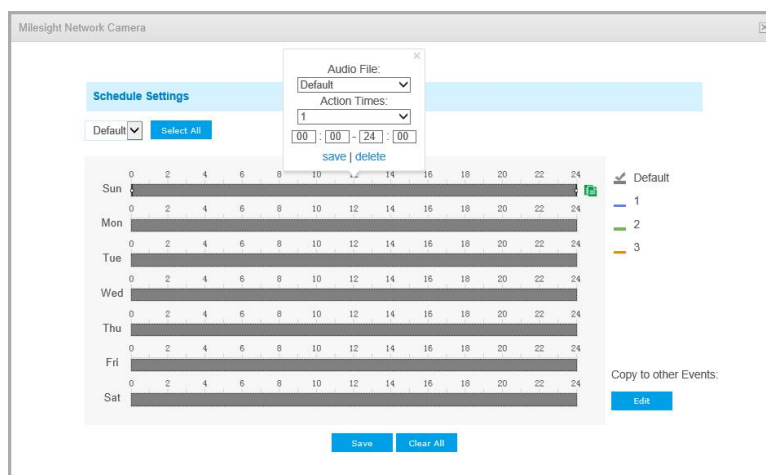
So, it's the VMS Software which decides whether we can use this function successfully.
Step5: Set alarm settings.

Alarm Setting	
Record Video Sections:	5 seconds
Pre-record:	0 second
Snapshot:	1
Snapshot Interval:	1 second
External Output Action Time:	30 seconds
Audio Action Settings:	Edit
Play Audio Interval:	Auto
Save	

Table 4-5-3 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
External Output Action Time	Length of time an alarm lasts, this cannot be edited unless you enable the External Output on the Alarm Action firstly.
Audio Action Settings	Set the audio schedule to trigger different audio files and action times in different time, which is corresponded to alarm action.
Play Audio Interval	Auto/ 10 seconds/ 30 seconds/ 1 minute/ 5 minutes/ 10 minutes are available.

Note:
 You can customize the schedule of Audio Action.



Audio Alarm

Enable the Audio before using Audio Alarm function.

Enable Audio Alarm:

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](#)

Alarm Action

Save Into Storage: File Format: Record
(Please mount storage device.)

Upload Via FTP: File Format: Record

Upload Via SMTP: File Format: Snapshot

External Output: (Please configure the External Output Action Time.)

Play Audio: (Please configure the Audio Action Settings and Audio Interval.)

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

HTTP Notification:

Alarm Setting

Record Video Sections: 5 seconds

Pre-record: 0 second

Snapshot: 3

Snapshot Interval: 1 second

External Output Action Time: 30 seconds

Audio Action Settings: [Edit](#)

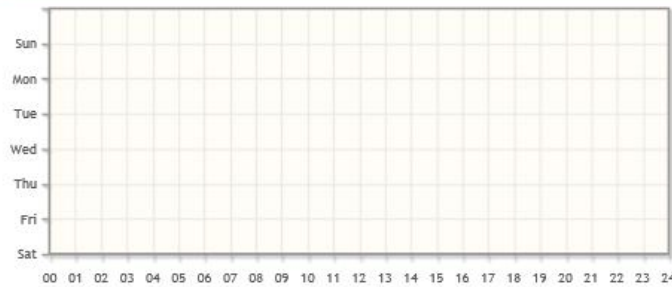
Play Audio Interval: Auto

The meaning of items please refer to table 4-5-2 and 4-5-3, here will not repeat again.

External Input

Enable External Input:

Schedule Settings



Edit

Alarm Action

Save Into Storage:	<input type="checkbox"/> File Format: Record <input type="button" value="v"/> (Please mount storage device.)
Upload Via FTP:	<input type="checkbox"/> File Format: Record <input type="button" value="v"/>
Upload Via SMTP:	<input type="checkbox"/> File Format: Snapsho <input type="button" value="v"/>
External Output:	<input type="checkbox"/> (Please configure the External Output Action Time.)
Play Audio:	<input type="checkbox"/> (Please configure the Audio Action Settings and Audio Interval.)
Alarm to SIP Phone:	<input type="checkbox"/> (Please open the SIP.)
HTTP Notification:	<input type="checkbox"/>

Alarm Setting

Record Video Sections:	5 seconds <input type="button" value="v"/>
Pre-record:	0 second <input type="button" value="v"/>
Snapshot:	3 <input type="button" value="v"/>
Snapshot Interval:	1 <input type="text"/> second <input type="button" value="v"/>
External Output Action Time:	30 seconds <input type="button" value="v"/>
Audio Action Settings:	<input type="button" value="Edit"/>
Play Audio Interval:	Auto <input type="button" value="v"/>

The meaning of items please refer to table 4-5-2 and 4-5-3, 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 (Please insert SD card.)
External Output:	<input type="checkbox"/> (Please configure the External Output Action Time.)
Play Audio:	<input type="checkbox"/> (Please configure the Audio Action Settings and Audio Interval.)
Alarm Setting	
Record Video Sections:	5 seconds
Pre-record:	0 second
Snapshot:	1
Snapshot Interval:	1 second
External Output Action Time:	30 seconds
Audio Action Settings:	Edit
Play Audio Interval:	Auto

[Save](#)

Table 4-5-4 Description of the buttons

Parameters	Function Introduction
Alarm Type	<p>Network Lost, Tampering and IP Address Conflicted are available</p> <p>Check the checkbox to enable the alarm type you selected</p>
Alarm Action	<p>Save Into SD Card: Save alarm recording files into SD Card</p> <p>External Output: If the camera equips with External Output, you can enable the action after configuring the trigger duration</p> <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>External Output Action Time: Length of time an alarm lasts, this cannot be edited unless when you enable the External Output on the Alarm Action firstly</p> <p>Audio Action Settings: Set the audio schedule to trigger different audio files and action times in different time, which is corresponded to alarm action</p> <p>Play Audio Interval: Auto/ 10 seconds/ 30 seconds/ 1 minute/ 5 minutes/ 10 minutes are available</p>
----------------------	--

External Output

External Output

Normal Status: Open Grounded

Current Status: Open Grounded

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

4.5.2 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.

Choose the storage mode according to your needs.

Storage Management

SD Card:

SD Card Settings

Total Size:0M Free Size:0M Used Size:0M

Note: Please insert SD card.

Table 4-5-5 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
Delete	Enable cyclic storage, when the free disk space reach at a certain value, it will automatically delete the files at certain percentage according to your settings

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.

NAS Settings

Server Address:

File Path:

Mounting Type:

NFS ▼

Add

Table 4-5-6 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:

Up to 5 NAS disks can be connected to the camera.

Record Settings

Storage Settings

Enable Recycle Storage:

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
Grid content																															

Edit

Table 4-5-7 Description of the buttons

Parameters	Function Introduction
Enable Recycle Storage	Enable/Disable Recycle Storage, if you enable this option, it will delete the files when the free disk space reach a certain value.
Schedule Settings	Click the Edit button to edit record schedule

Note:

SD Card or NAS are available.

Snapshot Settings

Snapshot Settings

Enable Timing Snapshot:

Interval:

Save Into Storage: (Please mount storage device.)

File Name:

Upload Via FTP:

Upload Via SMTP:

Save

Schedule Settings

Edit

Table 4-5-8 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 Storage: Save the snapshots into SD card or NAS, 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</p> <p>Upload Via SMTP: Upload the snapshots via SMTP</p> <p>Please note: If you choose to add time suffix, every snapshot picture will be saved, but if you choose to overwrite the base file name, only one latest picture will be saved. When you choose add overwrite the base file name to SD Card or NAS, it will create a file named "Snapshot" to place the snapshot.</p>
Schedule Settings	Click the Edit button to edit record schedule

Explorer

Files will be seen on this page when they are configured to save into SD card or NAS. You can set time schedule every day for recording videos and save video files to your desired location.

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

Video files are arranged by date. Set file type and start/end time to search out files. 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.).

Show entries
Download

	File Name	Start Time	End Time	Type	Size
Please mount storage device first!					

Showing 0 to 0 of 0 entries [First](#) [Previous](#) [Next](#) [Last](#)

File Search

Main Type:

Sub Type:

Start Time:

End Time:

Search
Reset

Go

4.5.3 Security

User

Manage Privilege

Allow Anonymous Viewing:

Security Question

Security Question: Edit

Account Management

Add
Edit
Delete

ID	User Name	Privilege
1	admin	Administrator
2	milesight	Operator

Admin Password:

User Level: Operator ▼

User Name:

Password:

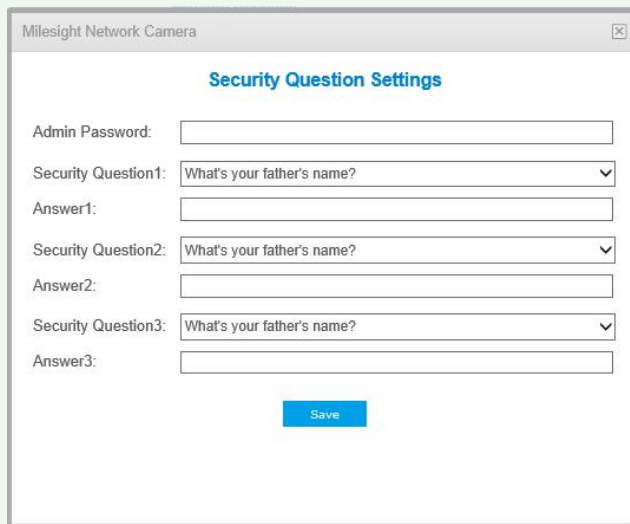
Confirm:

Note: You can only add 20 users

Save
Clear

Table 4-5-9 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
Security Question	Click "Edit" button to set three security questions for your camera. In case that you forget the password, you can click "Forget Password" button on login page to reset the password by answering three security questions correctly.



There are twelve default questions below, you can also customize the security questions.



<p>Account Management</p>	<p>Click "Add" button, it will display Account Management page. You can add an account to the camera by entering the following information. The added account will be displayed in the account list. You can edit and delete the account in the account list (except the admin account).</p> <p>Admin Password: You can only add an account after you enter the correct admin password.</p> <p>User Level: Set the privilege for the account.</p> <p>User Name: Input user name for creating an account</p> <p>Password: Input password for the account</p> <p>Confirm: Confirm the password</p>
<p>Administrator</p>	<p>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)</p>
<p>Operator</p>	<p>An operator can manage all configuration pages except the User page</p>
<p>Viewer</p>	<p>A viewer can't change any settings</p>

Note:

- 1) For versions above 54, the Operator and Viewer users are closed by default. But you still can add on the User page.
- 2) You can only add 20 users.

3) For V4x.7.0.69 or above, it removes the default admin password and allows to set a password when logging in for the first time. It also supports set-up of the security questions for the devices. Users can reset the password by answering the correct security questions in case of forgetting the password, which is more convenient for users.

Access List

General Settings

Maximum Number of Concurrent Streaming:

IP Access List

Rule:

IP Address:

Enable Access List Filtering:

Filter Type: Allow Deny

Table 4-5-10 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

Security Service

SSH Settings

Enable SSH:

SSH Port:

Table 4-5-11 Description of the buttons

Parameters	Function Introduction
SSH Settings	Secure Shell (SSH) has many functions: it can replace Telnet and also provides a secure channel for FTP, POP, even for PPP.

4.5.4 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. There are two ways to get video through SIP, 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

Unregistered	
Enable:	<input type="checkbox"/>
Register Mode:	Enable ▾
User ID:	500
User Name:	sipclient
Password:	*****
Server Address:	192.168.5.101
Server Port:	5060
Connection Protocol:	UDP ▾
Video Stream:	Secondary Stream ▾
Max Call Duration:	1800 s (0 means no limitation.)

Note:SIP supports Direct IP call.

Save

Table 4-5-12 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	Server IP address
Server Port	Server port
Connection Protocol	UDP/TCP
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:	<input type="text" value="Phone Number"/>
To 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="24"/> : <input type="text" value="00"/>

Table 4-5-13 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).

To 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:

Add

Enable White List Number Filter:

Save

Table 4-5-14 Description of the buttons

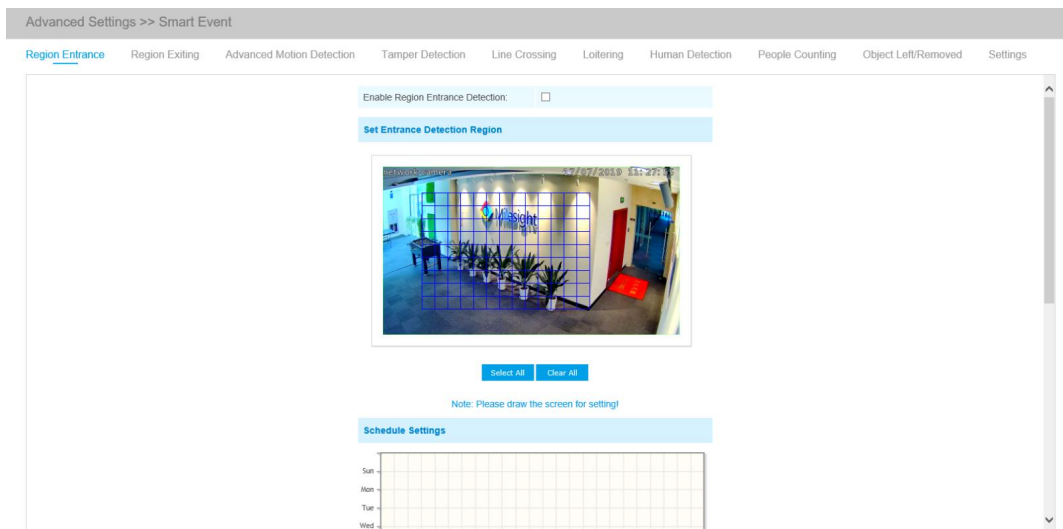
Parameters	Function Introduction
Phone Type	Phone Number(Call by phone number) & Direct IP Call
Phone Number/ IP Address	Including the phone number or IP address on the white list
Enable White List Number Filter	When enabled, only the designated phone number or IP address can visit

4.5.5 Smart Event

Smart Event uses Milesight Video Content Analysis technology. This technical capability is used in a wide range of domains including entertainment, health-care, retail, automotive, transport, home automation, safety and security. Milesight VCA provides advanced, accurate smart video analysis for Milesight network cameras. It enhances the performance of network cameras through 10 detection modes which are divided into basic function and advanced function, enabling the comprehensive surveillance function and quicker response of cameras to different monitoring scenes.

Region Entrance

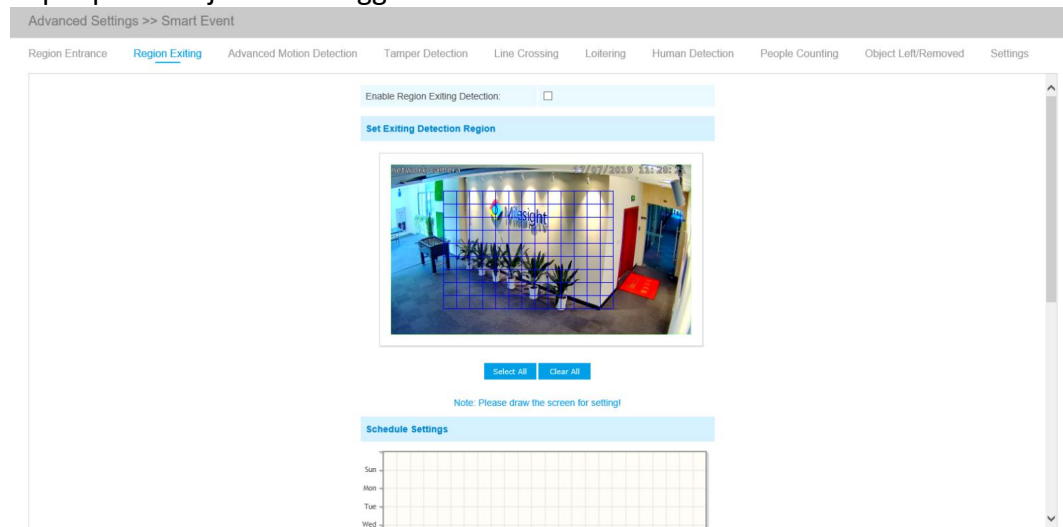
Region entrance helps to protect a special area from potential threat of suspicious person's or object's entrance. An alarm will be triggered when objects enter the selected regions by enabling region entrance.



- Step1: Set entrance detection region;
- Step2: Set detection schedule;
- Step3: Set alarm action;
- Step4: Set alarm settings.

Region Exiting

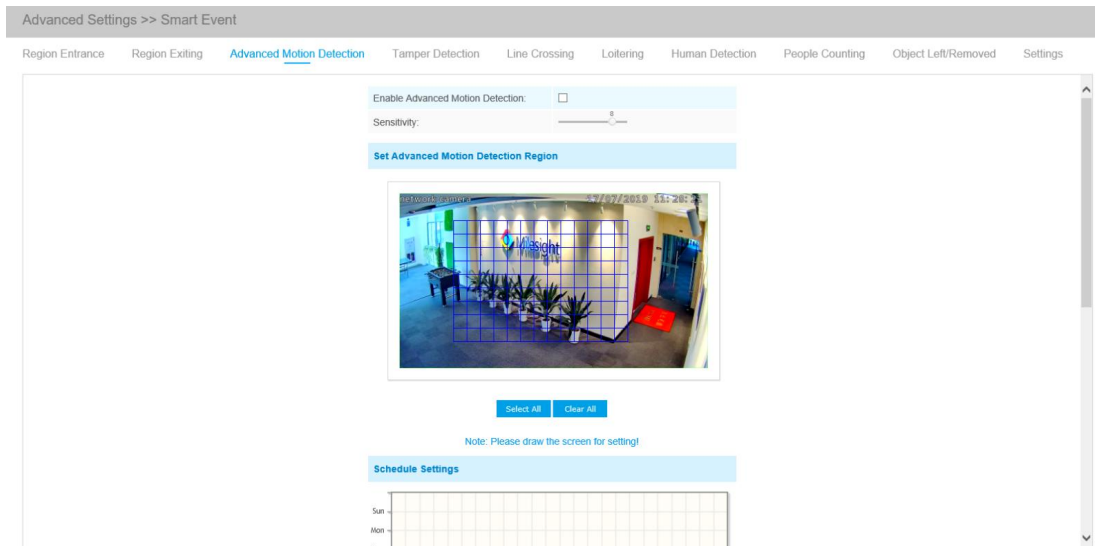
Region exiting is to make sure that any person or object won't exit the area that is being monitored. Any exit of people or objects will trigger an alarm.



- Step1: Set exiting detection region;
- Step2: Set detection schedule;
- Step3: Set alarm action;
- Step4: Set alarm settings.

Advanced Motion Detection

Different from traditional motion detection, Milesight advanced motion detection can filter out “noise” such as lighting changes, natural tree movements, etc. When an object moves in the selected area, it will trigger alarm.



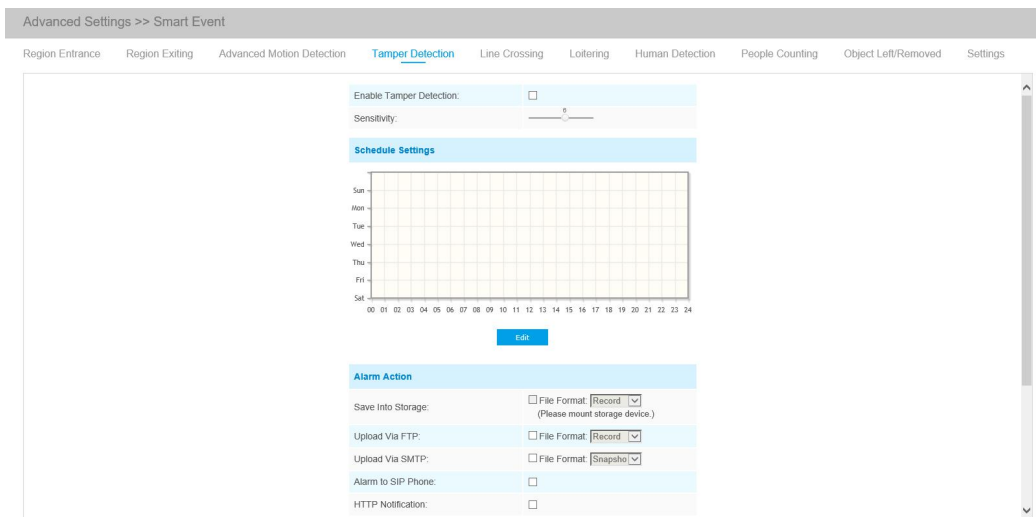
- Step1: Set detecting sensitivity;
- Step2: Set advanced motion detection region;
- Step3: Set detection schedule;
- Step4: Set alarm action;
- Step5: Set alarm settings.

Note:

The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.

Tamper Detection

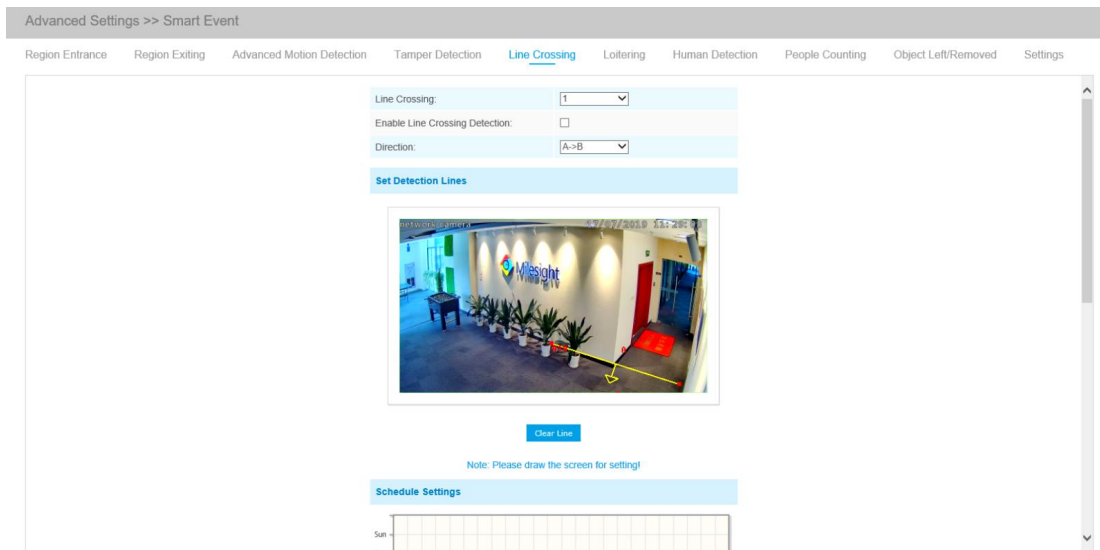
Tamper Detection is used to detect possible tampering like the camera being unfocused, obstructed or moved. This functionality alerts security staff immediately when any above-mentioned actions occur.



- Step1: Set detecting sensitivity;
- Step2: Set detection schedule;
- Step3: Set alarm action;
- Step4: Set alarm settings.

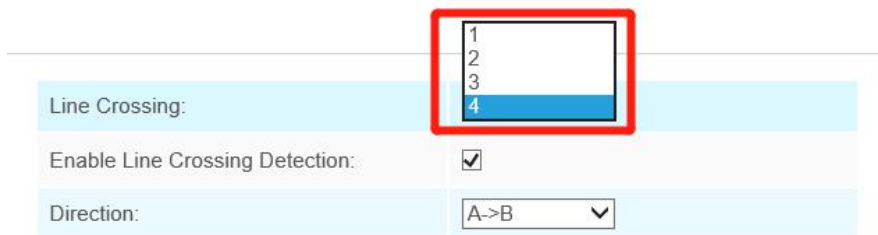
Line Crossing

Line Crossing detection is designed to work in most indoor and outdoor environment. An event will be triggered every time when the camera detects objects crossing a defined virtual line.

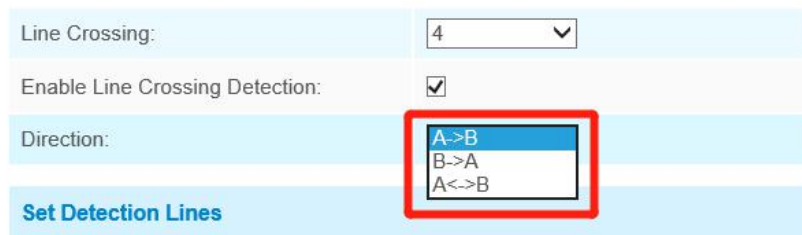


Settings steps are shown as follows:

Step1: Choose a line number;



Step2: Enable Line Crossing Detection and define its direction;



Step3: Draw detection lines;

Step4: Set detection schedule;

Step5: Set alarm action;

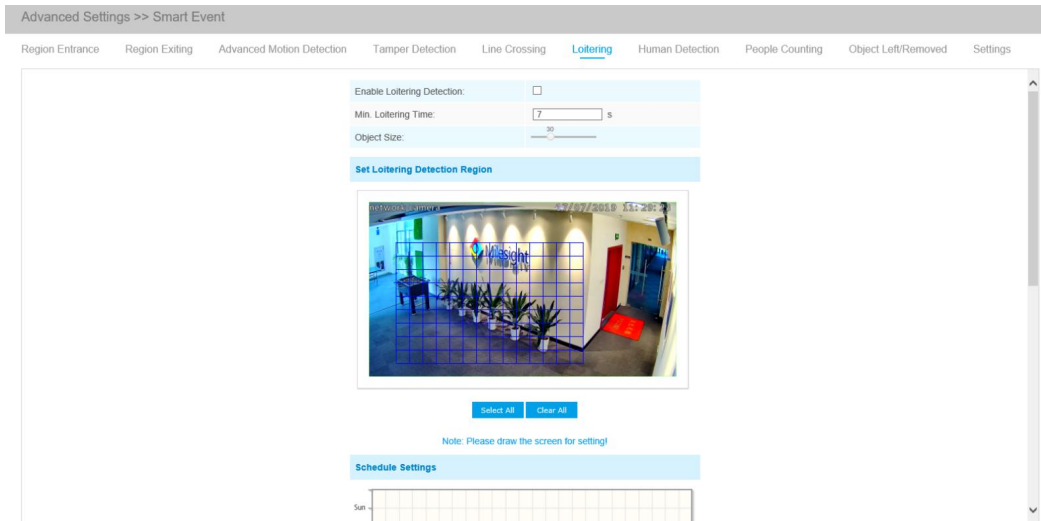
Step6: Set alarm settings.

Note:

Milesight allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm. "A→B" means when there is any object crossing the line from the "A" side to the "B" side, the alarm will be triggered. "B→A" vice versa. "A ↔ B" means that the alarm will be triggered when objects cross line from either side.

Loitering

When objects are loitering in a defined area for a specific period of time, it would trigger an alarm.



Step1: Set minimum loitering time;

Step2: Set object size;

Step3: Set loitering detection region;

Step4: Set detection schedule;

Step5: Set alarm action;

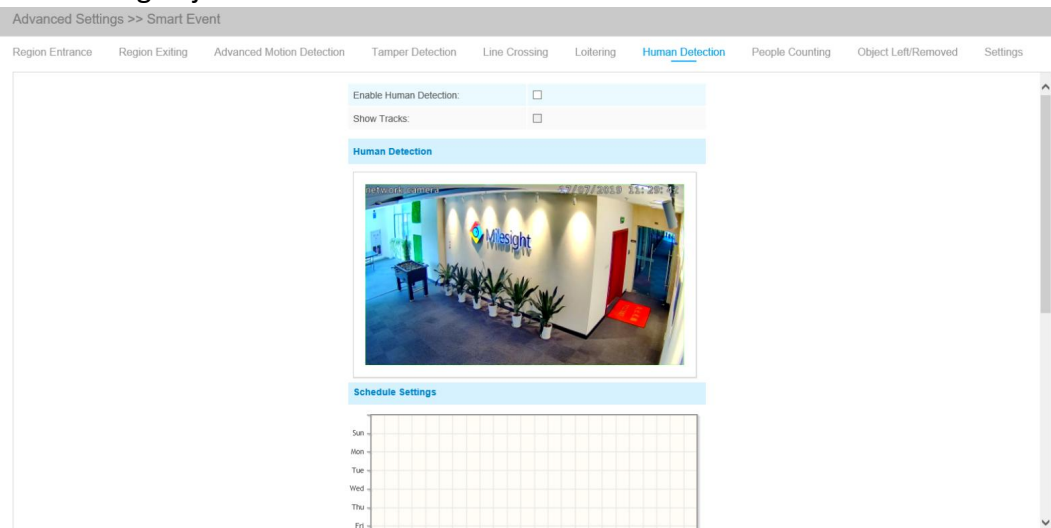
Step6: Set alarm settings.

Note:

After setting minimum loitering time from 3s to 1800s, any objects loitering in the selected area over the minimum loitering time will trigger the alarm. Also Milesight loitering allows to set "Object Size". Only the object bigger than the set size will trigger the alarm.

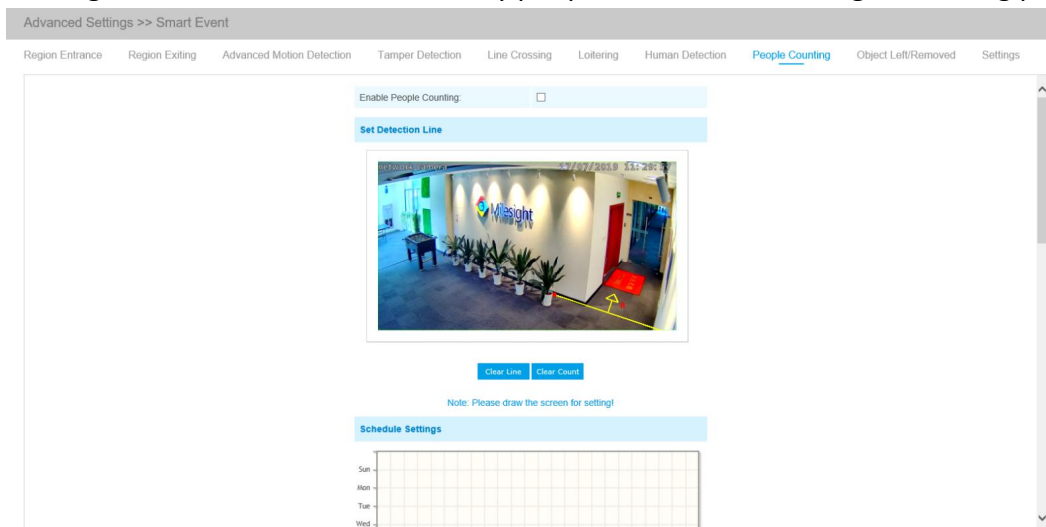
Human Detection

Human detection is used for figuring out whether an object is a human or not. Once human detection is enabled, when there is an object appearing in the detecting area, an ID will show on the frame. If the object is a person, it will mark as "person". When the Show Tracks is enabled, the tracks of the moving object will show on the screen.



People Counting

People counting is able to count that how many people enter or exit during the setting period.



Step1: Set detection line;

Step2: Set detection schedule;

Step3: Set counting OSD;

Counting OSD	
Show Video Title:	<input checked="" type="checkbox"/>
Font Size:	Small
Font Color:	
Text Position:	Top-Left

The OSD of the people counting support automatic zeroing;

Enable Auto Reset:	<input checked="" type="checkbox"/>
Day:	Everyday
Time:	00:00:00

Step4: Click “Edit” to check the counting logs, the data log can be exported to FTP/ SMTP/ Storage automatically as an Excel spreadsheet according to the time interval and range you set;

Log Settings	
Logs:	Edit
Enable Auto Export Logs:	<input checked="" type="checkbox"/>
Day:	Everyday
Time:	00:00:00
Export Time Range::	All
Export to:	<input type="checkbox"/> FTP <input type="checkbox"/> SMTP <input type="checkbox"/> Storage

Step5: Set alarm trigger. Alarm will be triggered when the thresholds reaches to a certain value

from 1 to 9999.

Alarm Trigger	
Enable Alarm	<input checked="" type="checkbox"/>
Thresholds:	<input type="checkbox"/> In: <input type="text" value="9999"/>
	<input type="checkbox"/> Out: <input type="text" value="9999"/>
	<input type="checkbox"/> Capacity: <input type="text" value="9999"/>
	<input type="checkbox"/> Sum: <input type="text" value="9999"/>

Step6: Set alarm action;

Step7: Set alarm settings.

Note:

Crossing along the direction of the arrow will record as “In”, opposite is “Out”;

Object Left/Removed(Optional)

Object Left can detect and prompt an alarm if an object is left in a pre-defined region. Object Removed can detect and prompt an alarm if an object is removed from a pre-defined region.

Step1: Enable Object Left or Object Removed(Or you can enable both features at the same time);

Step2: Set minimum time;

Step3: Set detection region;

Step4: Set detection schedule;

Step5: Set alarm action;

Step6: Set alarm settings.

Note:

1. After setting minimum time from 3s to 1800s, any objects are left in the selected area or removed from the selected area over the minimum time will trigger the alarm.
2. Object Left/Removed is optional, if you need this function, please contact Milesight sales first.

Settings

Milesight VCA provides the primary setting for the whole VCA functions. “Minimum Size” is to set the whether an object is big enough to trigger other settings. The frame you draw on the screen

means that only if the object size is bigger than the frame, the settings for other VCA functions will take effect. Maximum Size means opposite, the frame you draw on the screen stands for that only if the object size is smaller than the frame, the settings for other VCA functions will take effect.

Advanced Settings >> Smart Event

Region Entrance Region Exiting Advanced Motion Detection Tamper Detection Line Crossing Loitering Human Detection People Counting [Settings](#)

Process FPS:	<input type="text" value="10fps"/>
Scenario Mode:	<input type="text" value="Indoor"/>
Camera Installation:	<input type="text" value="Angle View"/>
Analysis Type:	<input type="text" value="Standard"/>
License:	<input type="text" value="XXju55XXZaUXXSSGGjSt"/>
License Status:	<input type="text" value="Valid"/>

Set Object Size Limits

Minimum Size : x pixel(1X1-320X240)

Maximum Size : x pixel(1X1-320X240)

Note: Please draw the screen or input pixel number for setting!

Table 4-5-15 Description of the buttons

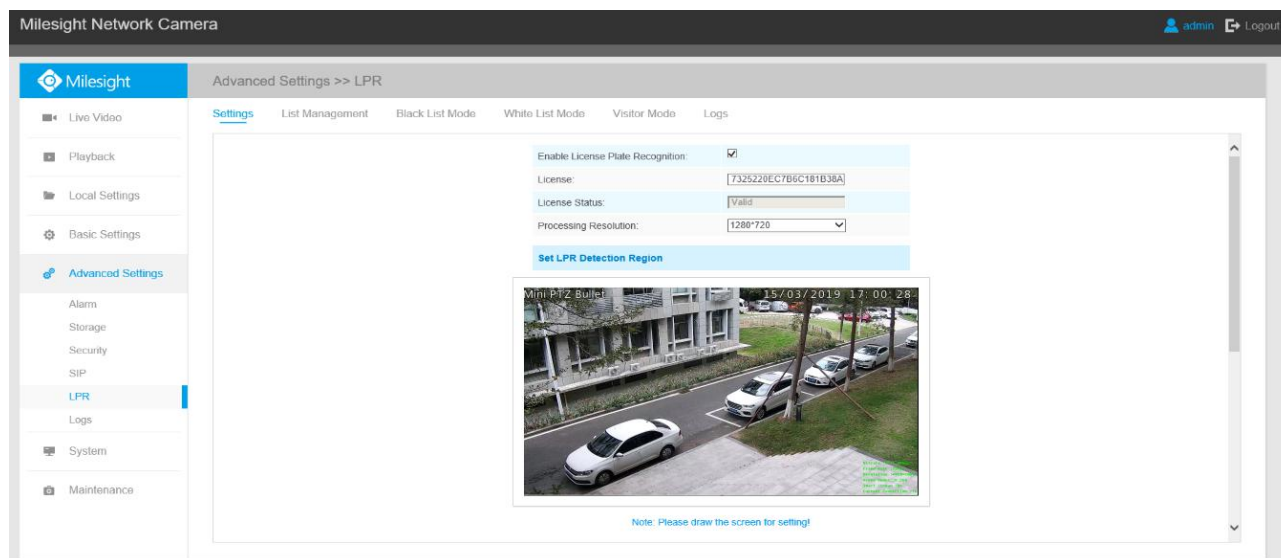
Parameters	Function Introduction
Process FPS	Five different periods are available(5, 10, 15, 20, 25, fps) for process fps
Scenario Mode	Select Indoor or Outdoor mode to meet your needs
Camera Installation	Select camera installation view, including Angle View , Horizontal View and Overhead View
Analysis Type	Select Standard or Advanced analysis type
License	Generated by camera's information
License Status	Show present license status, including Valid , Invalid , Expired , Unactivated
Minimum Size	Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 1*1.
Maximum Size	Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320*240.

4.5.6 LPR(Optional)

The LPR function will automatically detects and captures license plate in real time and compares to a predefined list, then takes appropriate action such as generating an alert once the license plate is on the predefined black list.

LPR is optional for 12x AF Motorized Pro Bullet, Mini PoE PTZ Bullet, ABF Pro Box, Vandal-proof Motorized Mini Bullet, Motorized Pro Bullet Network Camera.

Settings



Step1: Enter the license and click Save. When the License Status changes to Valid, the camera can start detecting the license plate.

Step2: Check the checkbox “Enable License Plate Recognition”, you can draw the screen to select area interested.

Step3: Schedule Settings. You can draw the schedule by clicking Edit button.

Table 4-5-16 Description of the buttons

Parameters	Function Introduction
License	Generated by camera’s information
License Status	Show present license status, including Valid, Invalid .
Processing Resolution	Resolution of the stream for LPR analysis, including 1920*1280, 1280*720, 640*360, 320*176.
Enable Day/Night Detection Mode (Only for Korean version)	With this option enabled, the camera will enable different detection modes according to Day/Night mode.
Add (Only for Korean version)	Draw the screen to select the area interested, then click “Add”button to add the area,only four recognition areas can be added.

	<p>You can edit the name of the area or delete the area in the list below.</p> <table border="1"> <thead> <tr> <th>ID</th> <th>Name</th> <th>Edit</th> <th>Delete</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><input type="text" value="ROI_1"/></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>ROI_2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>ROI_3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>ROI_4</td> <td></td> <td></td> </tr> </tbody> </table> <p>Note: Only license plates larger than 150 pixels can be recognized.</p>	ID	Name	Edit	Delete	1	<input type="text" value="ROI_1"/>			2	ROI_2			3	ROI_3			4	ROI_4		
ID	Name	Edit	Delete																		
1	<input type="text" value="ROI_1"/>																				
2	ROI_2																				
3	ROI_3																				
4	ROI_4																				
<p>Clear (Only for Korean version)</p>	<p>Click the "Clear" button to clear the area being drawn.</p>																				
<p>Delete All (Only for Korean version)</p>	<p>Click the "Delete All" button to delete all the added areas.</p>																				
<p>Enable LPR Message Post</p>	<p>Check the checkbox to enable LPR Message Post. It will push information to some third-party devices or softwares that are compatible with ours.</p>																				
<p>Post Type</p>	<p>Information can be pushed by RTSP or TCP.</p>																				

List Management

Add the license plates to this interface as Black or White type (Black/White List), and then you can set the alarm action for these license plates in the corresponding black list mode or white list mode interface. When these license plates are detected, the camera will respond accordingly to your settings.

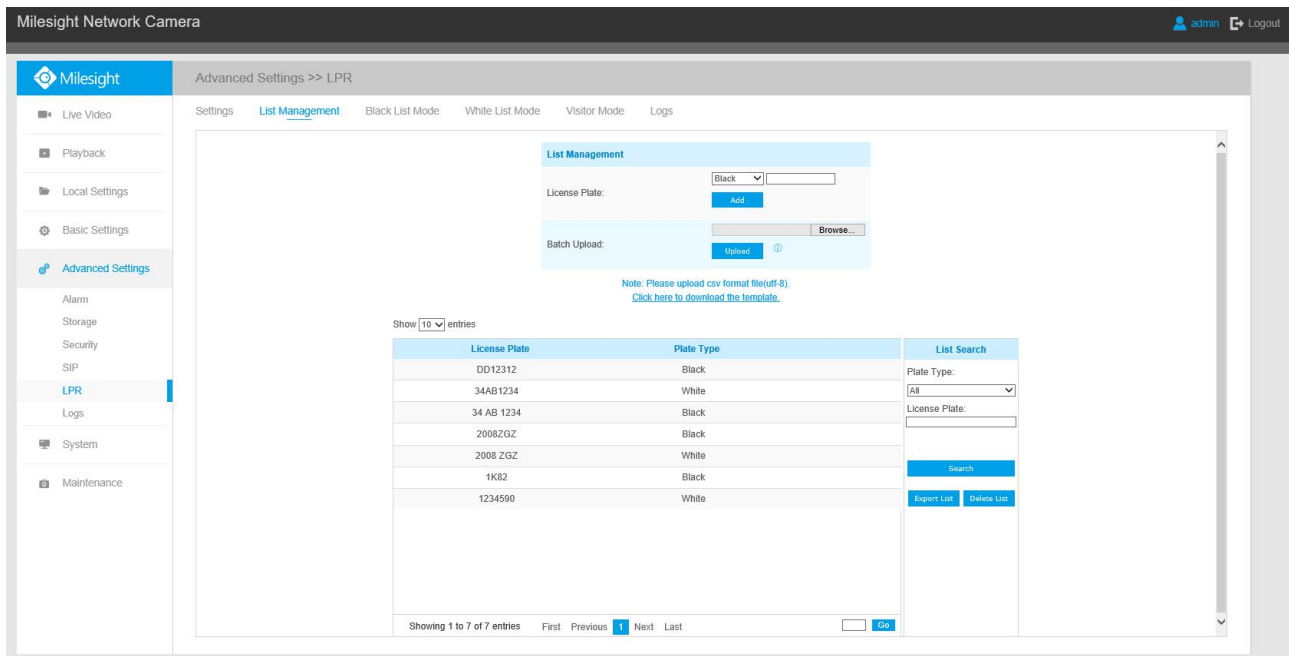
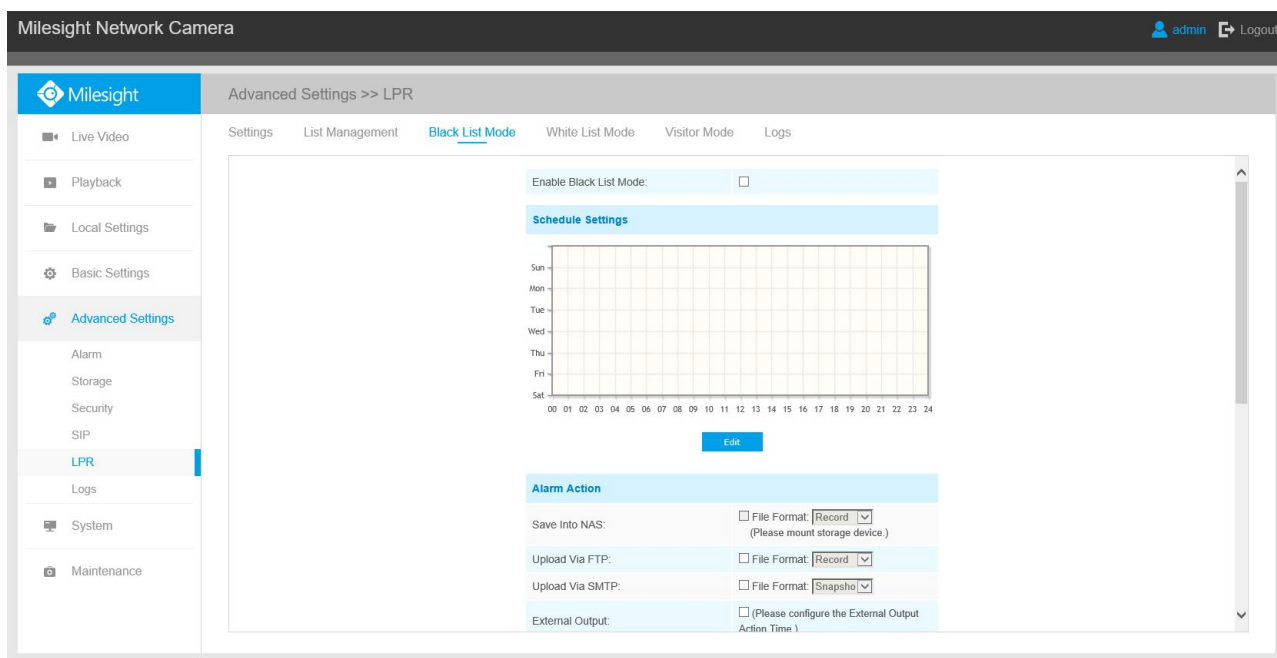


Table 4-5-17 Description of the buttons

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

Add License Plate	Select the license plate type as black or white, enter the license plate, click the "Add" button, the license plate will be added successfully.
Batch Upload	You can add a csv form with the license plate you want to add, click the "Browse" button to import the form to this interface, click the "Upload" button, the license plates will be added successfully. Note: You can first download the template as a reference in this interface.
List Search	Select Plate Type or directly enter the license plate number, click the "Search" button, the corresponding license plate will be displayed in the list below.
Export List	Click the "Export List" button to export the license plate in the current list to a csv form locally.
Delete List	Click the "Delete List" button to delete all the license plate in the current list.

Black List Mode



Step1: Check the checkbox to enable Black List Mode.

Step2: Schedule Settings. You can draw the schedule by clicking Edit button.

Step3: Set alarm action.

Alarm Action	
Save Into NAS:	<input type="checkbox"/> File Format: Record (Please mount storage device.)
Upload Via FTP:	<input type="checkbox"/> File Format: Record
Upload Via SMTP:	<input type="checkbox"/> File Format: Snapshot
External Output:	<input type="checkbox"/> (Please configure the External Output Action Time.)
Play Audio:	<input type="checkbox"/> (Please configure the Audio Action Settings and Audio Interval.)
Alarm to SIP Phone:	<input type="checkbox"/> (Please open the SIP.)
HTTP Notification:	<input type="checkbox"/>

Step4: Set alarm settings.

Alarm Setting	
Record Video Sections:	5 seconds
Pre-record:	0 second
Snapshot Type:	License Plate
Snapshot:	3
Snapshot Interval:	1 second
External Output Action Time:	30 seconds
Audio Action Settings:	Edit
Play Audio Interval:	Auto

After that, when a license plate marked as “black” is detected, the camera will respond accordingly to your settings.

White List Mode

Step1: Check the checkbox to enable White List Mode.

Step2: Schedule Settings. You can draw the schedule by clicking Edit button.

Step3: Set alarm action.

Alarm Action	
Save Into NAS:	<input type="checkbox"/> File Format: Record <input type="button" value="v"/> (Please mount storage device.)
Upload Via FTP:	<input type="checkbox"/> File Format: Record <input type="button" value="v"/>
Upload Via SMTP:	<input type="checkbox"/> File Format: Snapsho <input type="button" value="v"/>
External Output:	<input type="checkbox"/> (Please configure the External Output Action Time.)
Play Audio:	<input type="checkbox"/> (Please configure the Audio Action Settings and Audio Interval.)
Alarm to SIP Phone:	<input type="checkbox"/> (Please open the SIP.)
HTTP Notification:	<input type="checkbox"/>

Step4: Set alarm settings.

Alarm Setting	
Record Video Sections:	5 seconds <input type="button" value="v"/>
Pre-record:	0 second <input type="button" value="v"/>
Snapshot Type:	License Plate <input type="button" value="v"/>
Snapshot:	3 <input type="button" value="v"/>
Snapshot Interval:	1 second <input type="button" value="v"/>
External Output Action Time:	30 seconds <input type="button" value="v"/>
Audio Action Settings:	<input type="button" value="Edit"/>
Play Audio Interval:	Auto <input type="button" value="v"/>

After that, when a license plate marked as “White” is detected, the camera will respond accordingly to your settings.

Visitor Mode

Step1: Check the checkbox to enable Visitor Mode.

Step2: Schedule Settings. You can draw the schedule by clicking Edit button.

Step3: Set alarm action.

Alarm Action	
Save Into NAS:	<input type="checkbox"/> File Format: Record (Please mount storage device.)
Upload Via FTP:	<input type="checkbox"/> File Format: Record
Upload Via SMTP:	<input type="checkbox"/> File Format: Snapsho
External Output:	<input type="checkbox"/> (Please configure the External Output Action Time.)
Play Audio:	<input type="checkbox"/> (Please configure the Audio Action Settings and Audio Interval.)
Alarm to SIP Phone:	<input type="checkbox"/> (Please open the SIP.)
HTTP Notification:	<input type="checkbox"/>

Step4: Set alarm settings.

Alarm Setting	
Record Video Sections:	5 seconds
Pre-record:	0 second
Snapshot Type:	License Plate
Snapshot:	3
Snapshot Interval:	1 second
External Output Action Time:	30 seconds
Audio Action Settings:	Edit
Play Audio Interval:	Auto

After that, when a license plate that is not marked as "Black" or "White" is detected, the camera will respond accordingly to your settings.

Logs

The detect results in real time will be displayed on the right side of Logs page, including detected

time, live screenshot, and license plate.

Note: Only 10 logs are visible on the right side.

Time	Snapshot	License Plate
2019-03-14 14:48:57		34AB1234
2019-03-14 14:48:56		34AB1234
2019-03-14 14:48:55		34AB1234
2019-03-14 14:48:54		34AB1234

Select Plate Type or directly enter the license plate number, select Start Time and End Time, click the "Search" button, the corresponding license plate will be displayed in the list below.

Show entries

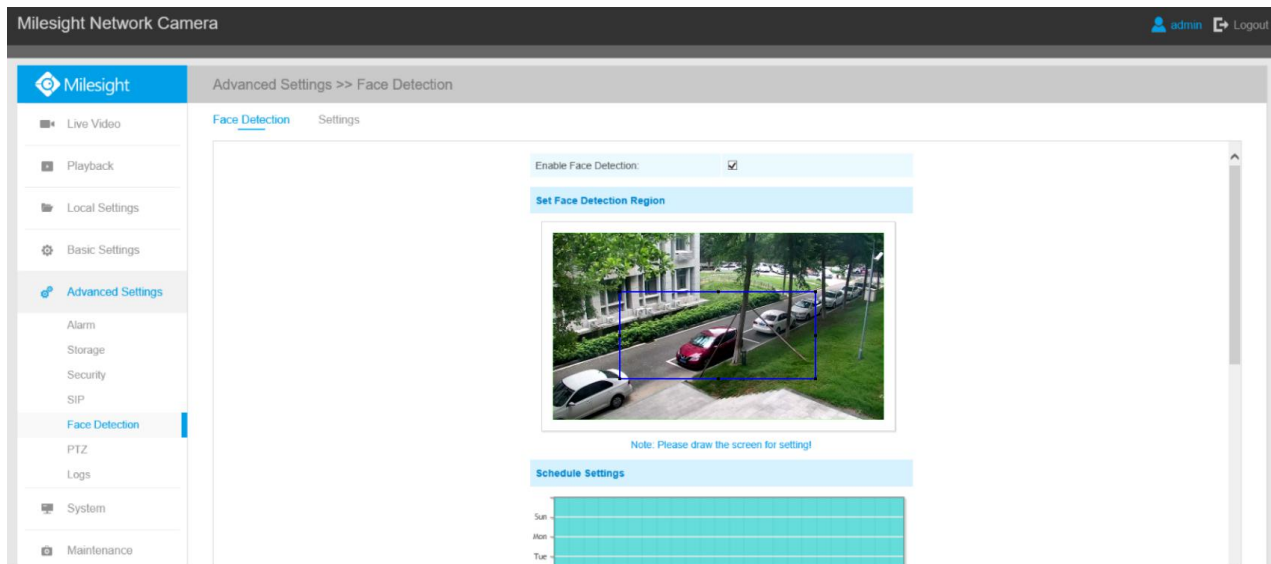
Time	License Plate	Plate Type	Log Search
2019-03-14 17:23:34	5H3K	Visitor	Plate Type: <input type="text" value="All"/> License Plate: <input type="text"/> Start Time: <input type="text" value="2019-02-14 00:00:00"/> End Time: <input type="text" value="2019-03-14 20:56:18"/> <input type="button" value="Search"/> <input type="button" value="Log Export"/>
2019-03-14 14:48:57	34AB1234	White	
2019-03-14 14:48:56	34AB1234	White	
2019-03-14 14:48:55	34AB1234	White	
2019-03-14 14:48:54	34AB1234	White	
2019-03-14 14:48:53	34AB1234	White	
2019-03-14 14:48:52	34AB1234	White	
2019-03-14 14:48:51	34AB1234	White	
2019-03-14 14:48:50	34AB1234	White	
2019-03-14 14:48:49	34AB1234	White	
2019-03-14 14:48:48	B1234	Visitor	
2019-03-14 14:48:48	34AB1234	White	
2019-03-14 14:48:47	B1234	Visitor	
2019-03-14 14:48:47	34AB1234	White	

Click the "Log Export" button to export the license plate in the current list to a csv form locally.

4.5.7 Face Detection(Optional)

The face detection function can detect the face appearing in the drawn area and support to upload the face screenshot to NAS, FTP, SMTP, HTTP Notification, etc.

Face Detection is **optional for Motorized Pro Dome, ABF Pro Box and Motorized Pro Bullet Network Camera.**



Step1: Enable Face Detection;

Step2: Set a rectangular face detection region, you can drag the detection region to adjust the size of the region. Only faces in this region will be detected;

Step3: Set detection schedule;

Step4: Set Face Capture Configuration;

Face Capture Configuration	
Capture Mode:	Quality Priority
Snapshot Type:	Face Only <input checked="" type="checkbox"/> Background
Snapshot:	1
Record Video Sections:	5 seconds
Pre-record:	0 second
Save Into NAS:	<input type="checkbox"/> File Format: AVI (Please mount NAS.)
Upload Via FTP:	<input type="checkbox"/> File Format: JPG
Upload Via SMTP:	<input type="checkbox"/> File Format: JPG
HTTP Notification:	<input type="checkbox"/>

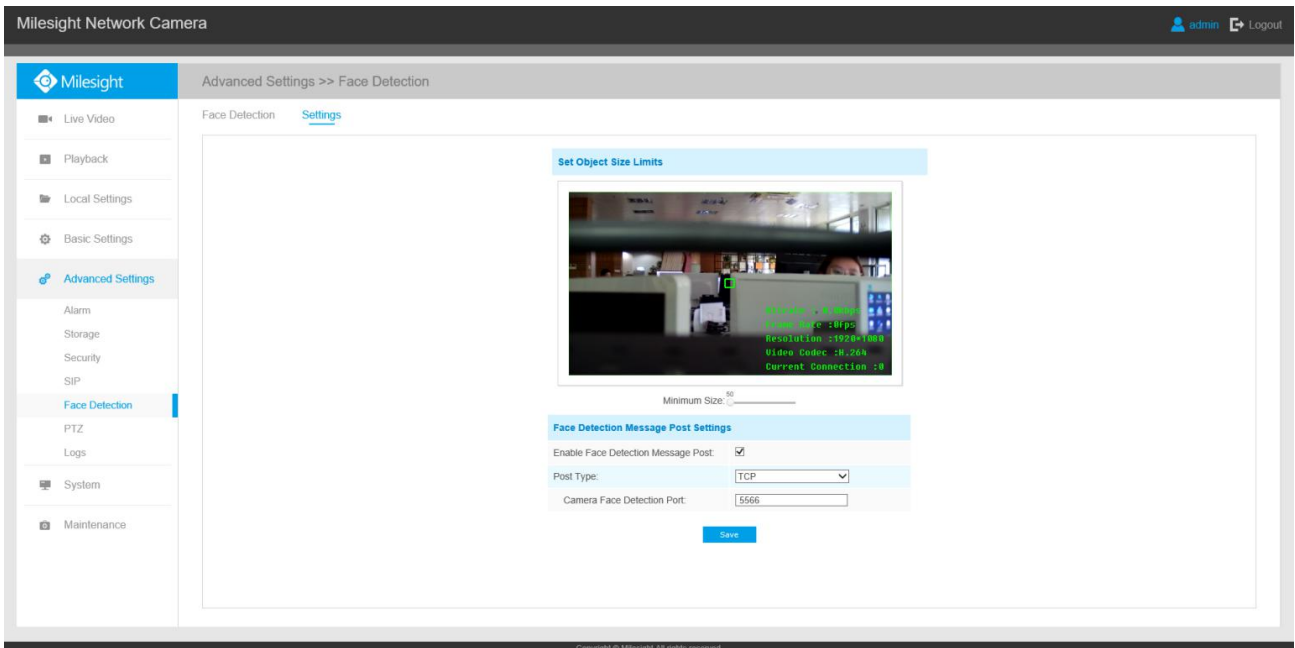
Table 4-5-18 Description of the buttons

Parameters	Function Introduction
Capture Mode	<p>Auto Mode, Quality Priority, Timeliness Priority, Customize are available.</p> <p>Auto Mode: In this mode, it will push a face screenshot based on screenshot quality and push speed when the face is detected.</p>

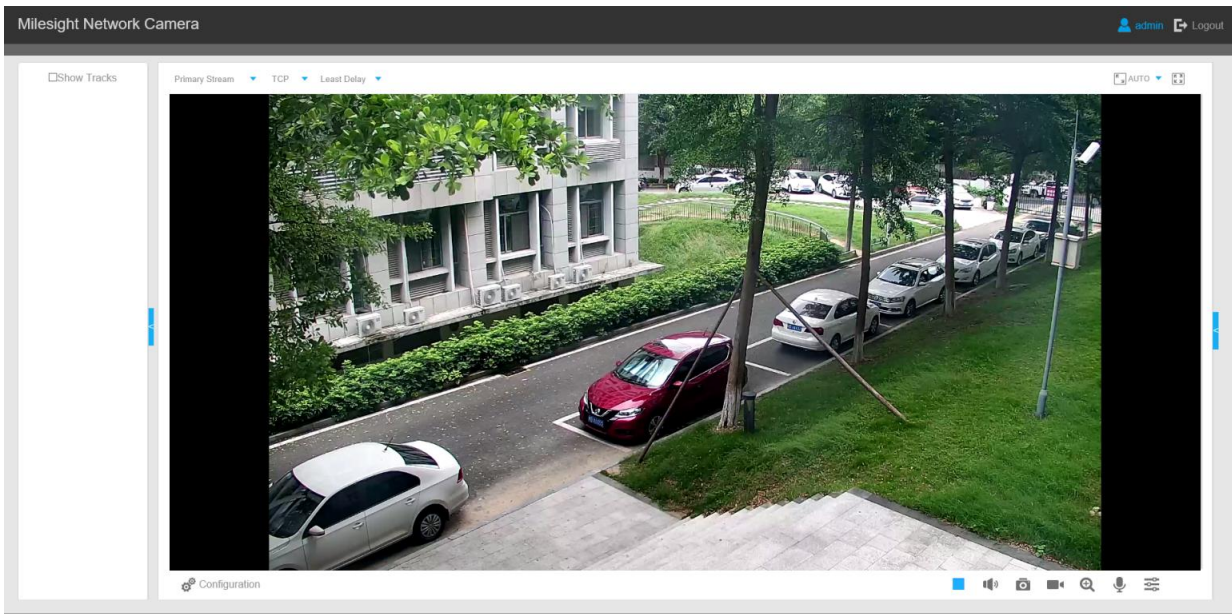
	<p>Quality Priority: In this mode, it will push a face screenshot of best quality when the face is detected.</p> <p>Timeliness Priority: In this mode, it will push a face screenshot in the shortest time when the face is detected.</p> <p>Customize: In this mode, you can customize some detect conditions, including Snapshot Interval, Oblique Face Angle Limit, Pitching Face Angle Limit, Side Face Angle Limit, Blur Limit.</p>
Snapshot Interval	<p>80 milliseconds, 200 milliseconds, 500 milliseconds, 1 second, 2 seconds and 4 seconds are available.</p> <p>Note: this option is optional for Auto mode and Customize mode.</p>
Oblique Face Angle Limit	<p>Set Oblique Face Angle Limit to 1~180. The larger the value, the larger angle the oblique face that can be detected.</p> <p>Note: this option is optional for Customize mode.</p>
Pitching Face Angle Limit	<p>Set Pitching Face Angle Limit to 1~180. The larger the value, the larger angle the pitching face that can be detected.</p> <p>Note: this option is optional for Customize mode.</p>
Side Face Angle Limit	<p>Set Side Face Angle Limit to 1~180. The larger the value, the larger angle the side face that can be detected.</p> <p>Note: this option is optional for Customize mode.</p>
Blur Limit	<p>Set Blur Limit to 1~10. The larger the value, the more blurred the face can be detected.</p> <p>Note: this option is optional for Customize mode.</p>
Snapshot Type	<p>Face Only, Upper Body, Whole Body are available.</p> <p>Face Only: Capture the screenshot of face only.</p> <p>Upper Body: Capture the screenshot of upper body.</p> <p>Whole Body: Capture the screenshot of whole body.</p> <p>If you check the "Background" option, it will take another screenshot of the entire image.</p>
Snapshot	<p>Set the number of screenshots to 1~5. It will take screenshots based on the snapshot interval you set.</p>
Record Video Sections	<p>Six different periods are available(5, 10, 15, 20, 25, 30 sec).</p>
Pre-record	<p>Reserve the record time before alarm, 0~10 sec.</p>
Save Into NAS	<p>Save the alarm files into NAS.</p>
Upload Via FTP	<p>Upload the alarm files via FTP.</p>
Upload Via SMTP	<p>Upload the alarm files via SMTP.</p>
HTTP Notification	<p>Support to pop up the alarm news to specified HTTP URL.</p>

Step5: Set minimum size of object on setting page. The default minimum size is 50. You can also check the checkbox to enable Face Detection Message Post.

It will push information to some third-party devices or softwares that are compatible with ours. Information can be pushed by TCP.



Step6: It will detect the face in the live view according to the region and conditions you set. If you check the "Show Tracks" option, it will display the face screenshot with the ID on the left side of the live view.



4.5.8 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
2017-09-04 13:35:41	Operation	RTSP Session Stop	-	-	192.168.8.50	stop one session.
2017-09-04 13:29:18	Operation	RTSP Session Start	-	-	192.168.8.50	start one session.
2017-09-04 13:29:14	Operation	RTSP Session Stop	-	-	192.168.8.50	stop one session.
2017-09-04 13:28:54	Operation	RTSP Session Start	-	-	192.168.8.50	start one session.
2017-09-04 13:28:53	Operation	Login Remotely	-	admin	192.168.8.50	-
2017-09-04 05:50:00	Information	IR-CUT On	-	-	-	-
2017-09-03 18:35:25	Information	IR-CUT Off	-	-	-	-
2017-09-03 05:43:58	Information	IR-CUT On	-	-	-	-
2017-09-02 18:37:57	Information	IR-CUT Off	-	-	-	-
2017-09-02 05:41:22	Information	IR-CUT On	-	-	-	-
2017-09-01 18:43:37	Information	IR-CUT Off	-	-	-	-
2017-09-01 17:00:57	Operation	RTSP Session Stop	-	-	192.168.8.50	stop one session.
2017-09-01 16:55:24	Event	Motion Detection Stop	-	-	-	-
2017-09-01 16:55:19	Operation	RTSP Session Start	-	-	192.168.8.50	start one session.
2017-09-01 16:55:17	Operation	RTSP Session Stop	-	-	192.168.8.50	stop one session.

Showing 1 to 30 of 1,221 entries First Previous **1** 2 3 4 5 ... 41 Next Last

Log Search

Main Type:

Sub Type:

Start Time:

End Time:

Save Period:

Table 4-5-19 Description of the buttons

Parameters	Function Introduction
Main Type	There are five main log types: All Type, Event, Operation, Information, Exception, Event
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

4.6 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-C2962-FPB
Hardware Version:	V1.0
Software Version:	40.7.0.69-r2
MAC Address:	1C:C3:16:21:09:91
Device Information:	SA100EE3F0N
Alarm Input:	1
Alarm Output:	1
Uptime:	5 days 3 hours 47 minutes

Table 4-6-1 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
MAC Address	Media Access Control address
Device Information	The device information, including information about alarm I/O and clipper chip
Alarm Input	The number of Alarm Input interface
Alarm Output	The number of Alarm Output interface
Uptime	The elapsed time since the last restarted of the device

Note:

The Alarm Input/Alarm Output will appear only when the camera have alarm input/output interface.

4.7 Maintenance

4.7.1 System 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:

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

System Upgrade	
Software Version:	40.7.0.69-r2
Firmware File:	<input type="text"/> Browse...
Upgrade <input type="checkbox"/> Reset after Upgrading	<input type="button" value="Upgrade"/>
<p>Note: Do not disconnect the power of the device during the upgrade.</p>	
Maintenance	
Reset <input checked="" type="checkbox"/> Keep the IP Configuration <input checked="" type="checkbox"/> Keep the User information	<input type="button" value="Reset"/>
Export Config File:	<input type="button" value="Export"/>
Config File:	<input type="text"/> Browse...
Import Config File:	<input type="button" value="Import"/>
Reboot	
Reboot the Device:	<input type="button" value="Reboot"/>

Table 4-7-1 Description of the buttons

Parameters	Function Introduction
System Upgrade	<p>Software Version: The software version of the camera</p> <p>Firmware File: Select the firmware used to upgrade</p> <p>Reset after Upgrading: Check this option to reset the camera after upgrading it</p>
Maintenance	<p>Reset settings: Click “Reset” button to reset the camera to factory default settings</p> <p>Keep the IP Configuration: Check this option to keep the IP configuration when resetting the camera.</p> <p>Keep the User information: Check this option to keep the user information when resetting the camera.</p> <p>Export Config File: Click this button to export the configuration file</p> <p>Import Config File: Click this button to import the old configuration file</p>
Reboot	Click “Reboot” button to restart the device immediately

4.7.2 Auto Reboot

Set the date and time to enable Auto Reboot function, the camera will reboot automatically according to the customized time in case that camera overload after running a long time.

Auto Reboot Settings	
Enable Auto Reboot:	<input type="checkbox"/>
Day:	Everyday ▼
Time:	00:00:00 🕒

[Save](#)

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.

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