



Fisheye Network Camera User Manual

V1.14

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.265 Fisheye Network Camera, series are shown as follows, except where otherwise indicated.

	Milesight H.265 Fisheye Network Camera	
Type Megapixel	5MP	12MP
Fisheye Network Camera	MS-C5374-PB	MS-C9674-PB

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

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

Copyright Statement

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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 à la norme NMB-003 du Canada.





Safety Instruction

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

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

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

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



Warnings

- ◆ This installation must be conducted by a qualified service person and should strictly comply with the electrical safety regulations of the local region;
- ◆ To avoid risk of fire and electric shock, do keep the product away from rain and moisture before installed;
- ◆ Do not touch components such as heat sinks, power regulators, and processors, which may be hot;
- ◆ Source with DC 12V;
- ◆ 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, as well as 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 Fisheye Network Camera to fully meet your requirements. Based on embedded Linux operating system, Milesight Fisheye Network Camera 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, and features with advanced technology, bringing panoramic viewing experience. It has the effect of more than 4 regular network cameras. The ultra high resolution and latest design guarantee the detailed images and enjoy-able user-experience.

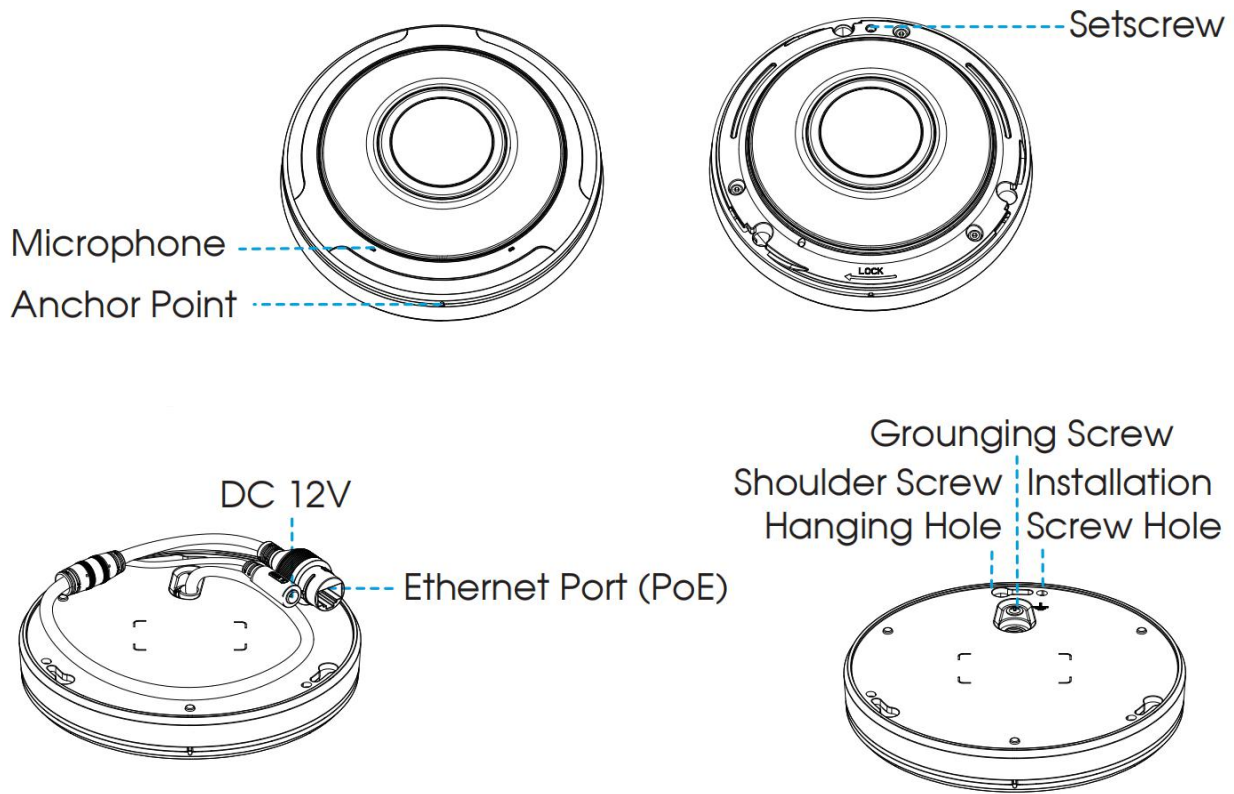
In practical applications, Milesight Fisheye Network Camera could either work independently in the LAN, or be networked to form a powerful safety monitoring system. It is widely used in fields such as finance, education, industrial production, civil defense, health care for security's sake.

1.2 Key Features

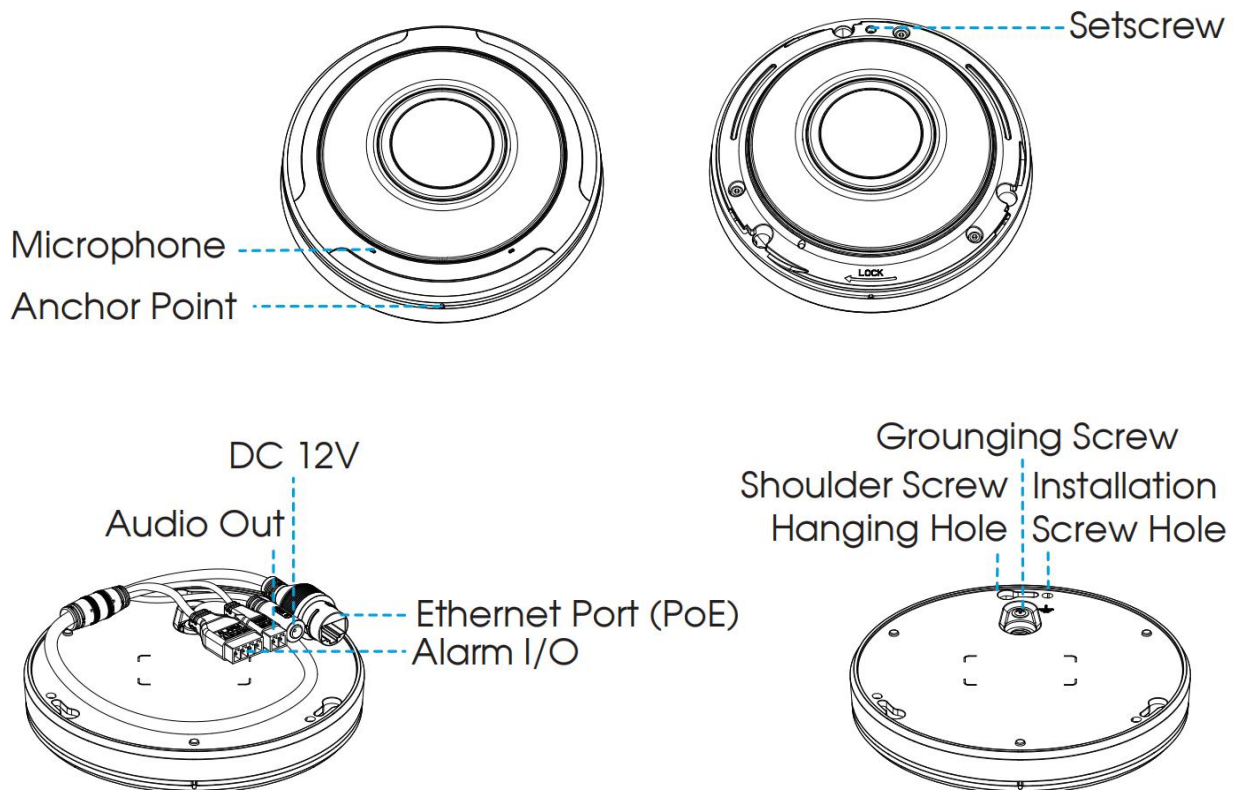
- ✧ 70% ~80% bandwidth saved by 10-level adjustable H.265⁺
- ✧ Up to 25fps@4000×3000
- ✧ Support Hardware Dewarping and Software Dewarping
- ✧ Support Heat Map function
- ✧ Support Auto Tracking function
- ✧ 11 display modes to meet various needs
- ✧ Equipped with Audio I/O and Alarm I/O
- ✧ IK10-rated vandal-proof metal cover, and IP67-rated weather-proof housing
- ✧ Streamlined design, exquisite appearance
- ✧ Easy to blend in with the installation environment
- ✧ 255 Preset Points and 8 Patrols
- ✧ Based on Linux OS with high reliability
- ✧ Support ONVIF Profile G & Q & S & T
- ✧ Support Plugin-Free mode
- ✧ Support activation and set-up of the security questions for cameras(V4x.7.0.69 or above)
- ✧ ICR filter with auto switch, true day/night
- ✧ UPnP protocol for the easy management of cameras
- ✧ Support Milesight DDNS
- ✧ Motion Detection, Privacy Masking, Network Fault Detection and ROI
- ✧ FTP upload, SMTP upload, SD card record and SIP function
- ✧ G.711/AAC audio compression capability
- ✧ Three-privilege levels of users for flexible management
- ✧ Micro SD/SDHC/SDXC card local storage support, expand the edge storage

1.3 Hardware Overview

1. 5MP Fisheye Network Camera



2. 12MP Fisheye Network Camera

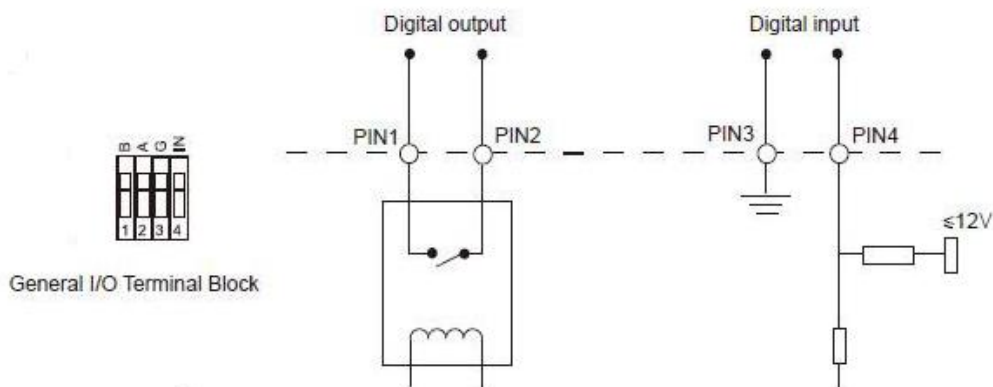


Note:

- 1) DC 12V and PoE are available for power supply.
- 2) Built-in SD card slot can be seen after rotating open the cover, removing the 3 screws and open the front panel.

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:



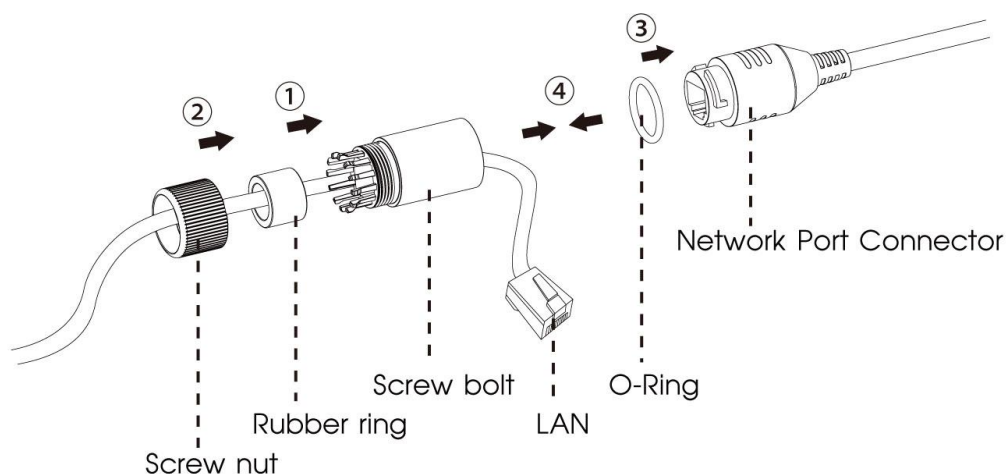
PIN1: Alarm Output NC/NO 24V DC 1A

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 when the computer connected to a camera, it 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.

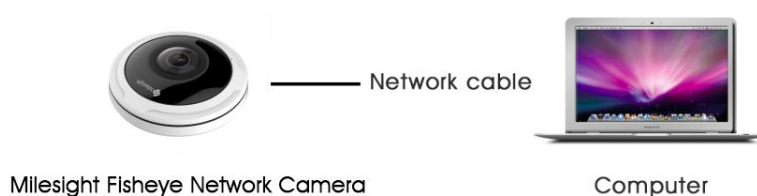


Figure 2-1-1 Connect the camera to the PC directly

2.1.2 Connect via a Switch or a Router

Set network camera over the LAN via the switch or router as figure 2-1-2:



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, a Subnet mask and a 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.

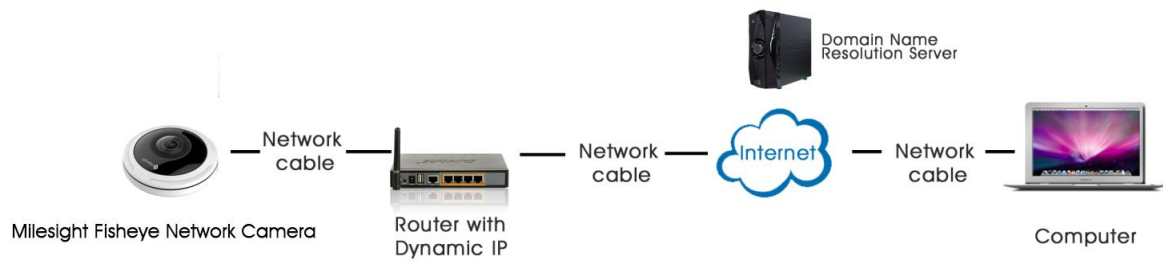


Figure 2-2 Connect the network camera via a router using dynamic IP

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.

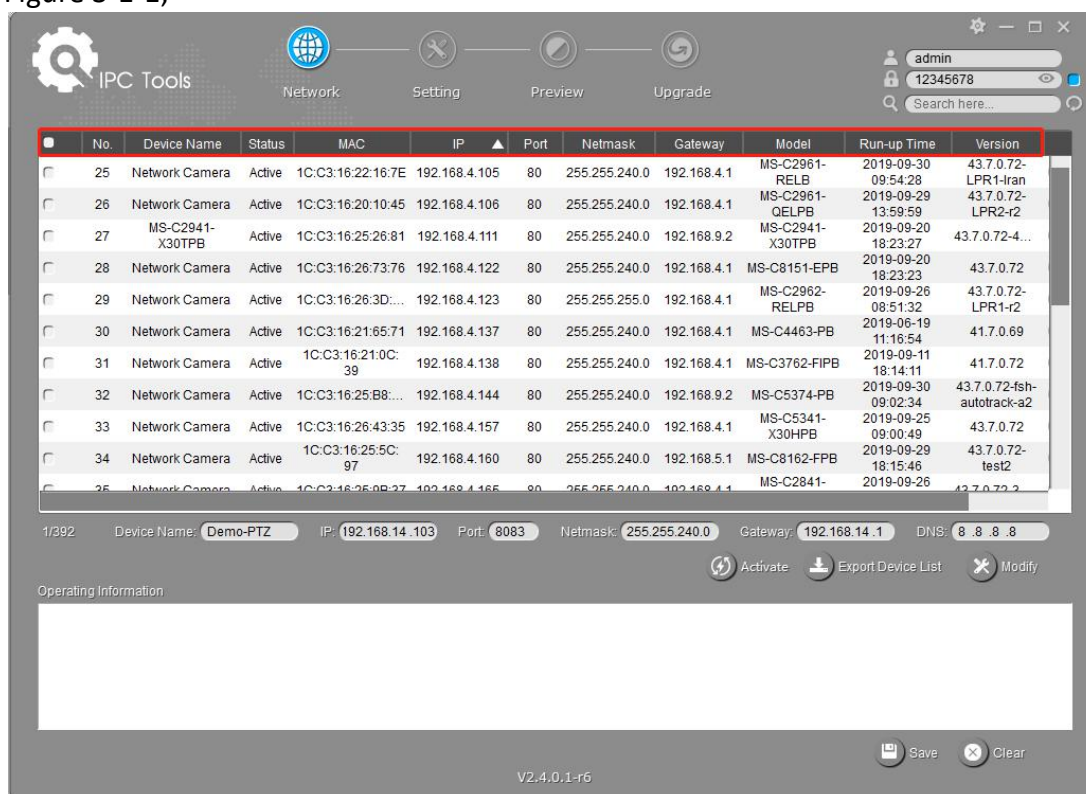
You can either change the IP address of the camera via Smart Tools or browser. Please connect the camera in the same LAN of your computer.

3.1.1 Assigning An IP Address Using Smart Tools

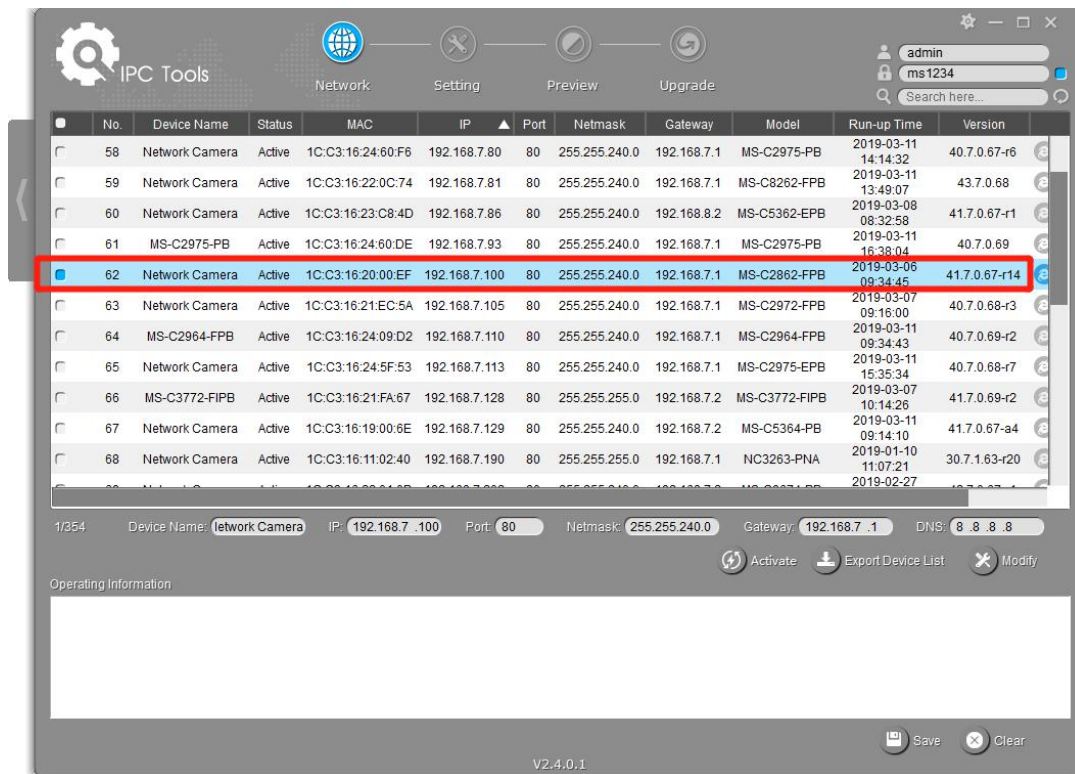
Smart Tools is a software tool which can automatically detect multiple online Milesight network cameras in the LAN, set IP addresses, and manage firmware upgrades. It's recommended to use when assigning IP addresses for multiple cameras.

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

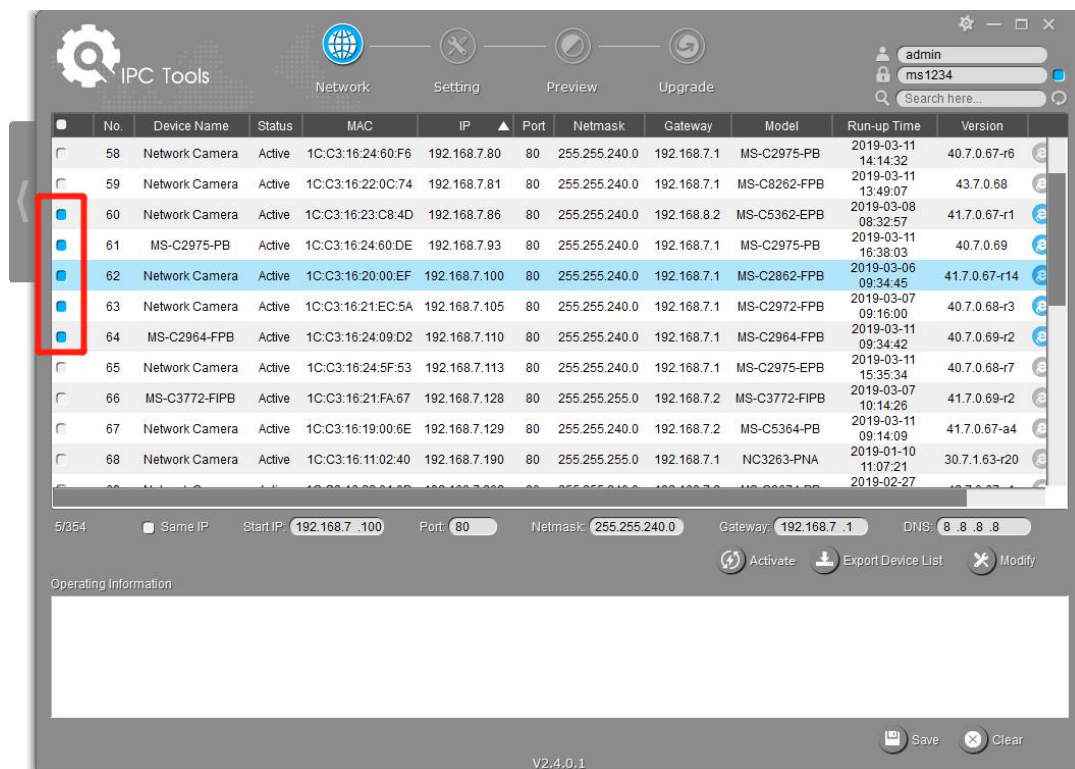
Step2: Start Smart Tools, click the IPC Tools page, then enter the device information, such as IP address, MAC address, Status, Port number, Netmask, and Gateway, then all related Milesight network cameras in the same network that will be displayed. Details are shown as Figure 3-1-1;



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

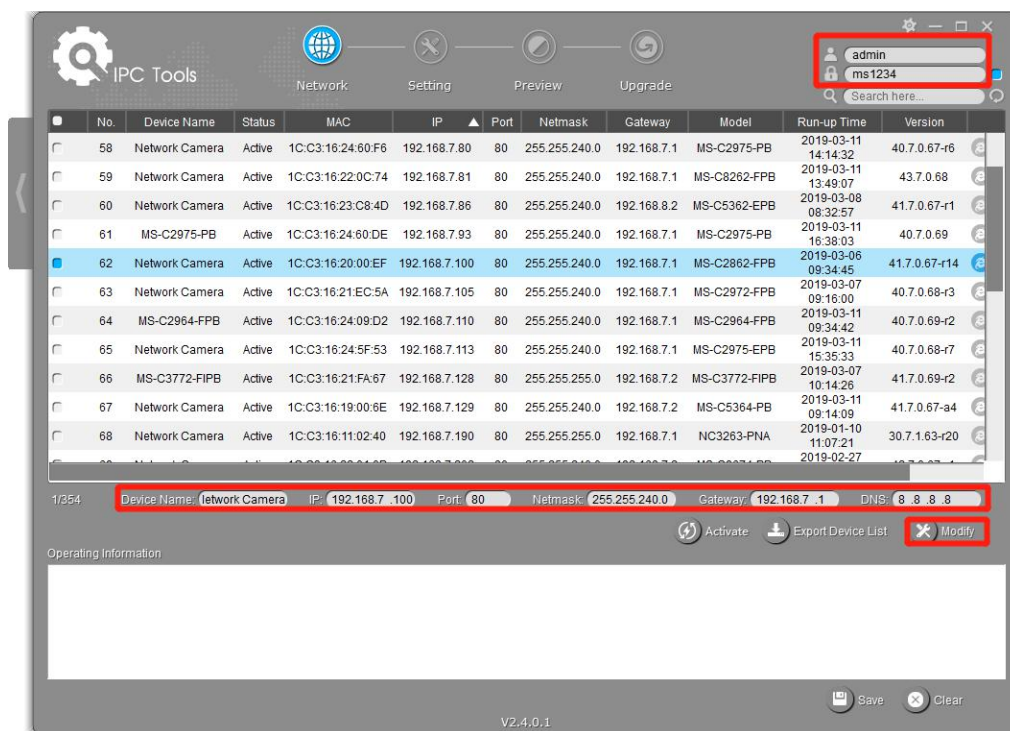


Select single camera



Select multiple cameras

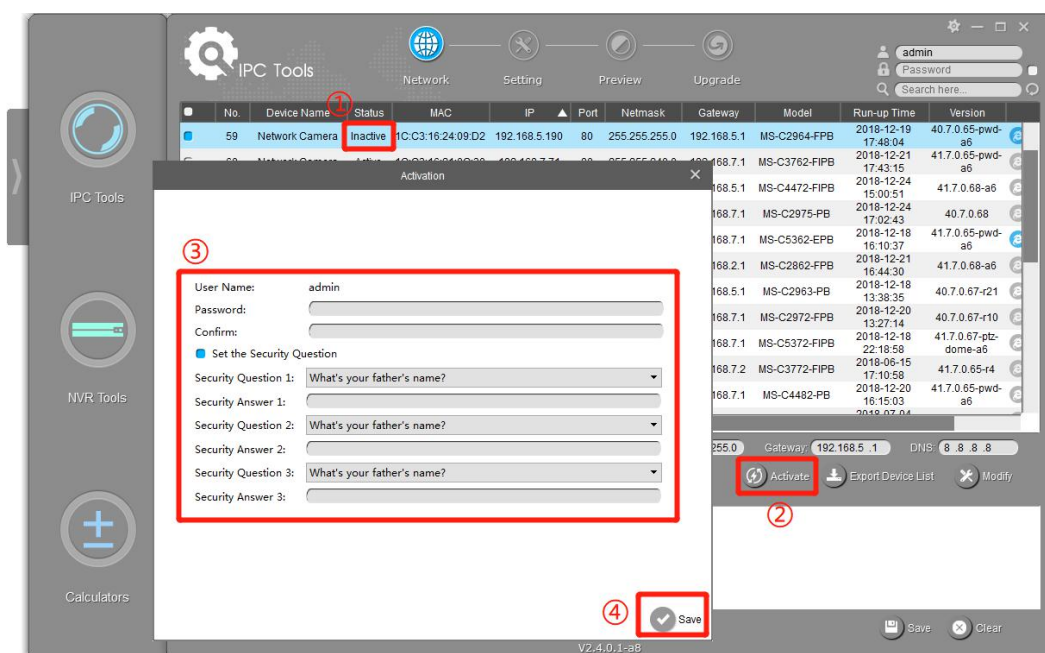
Step4: If the selected camera shows "Active" in the status bar, you can directly type the User Name and Password (Camera with version lower than 4x.7.0.69 is using admin/ms1234 by default), change the IP address or other network values, and then click "Modify" button;



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.

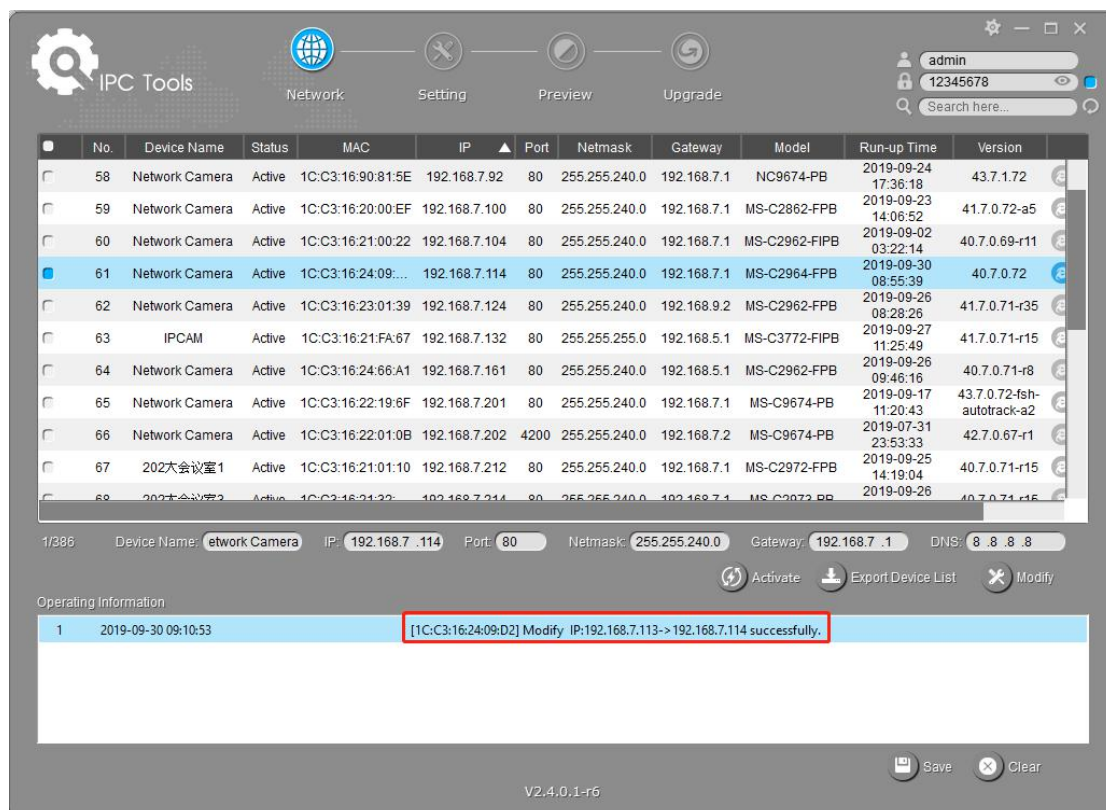
Note:

- (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.

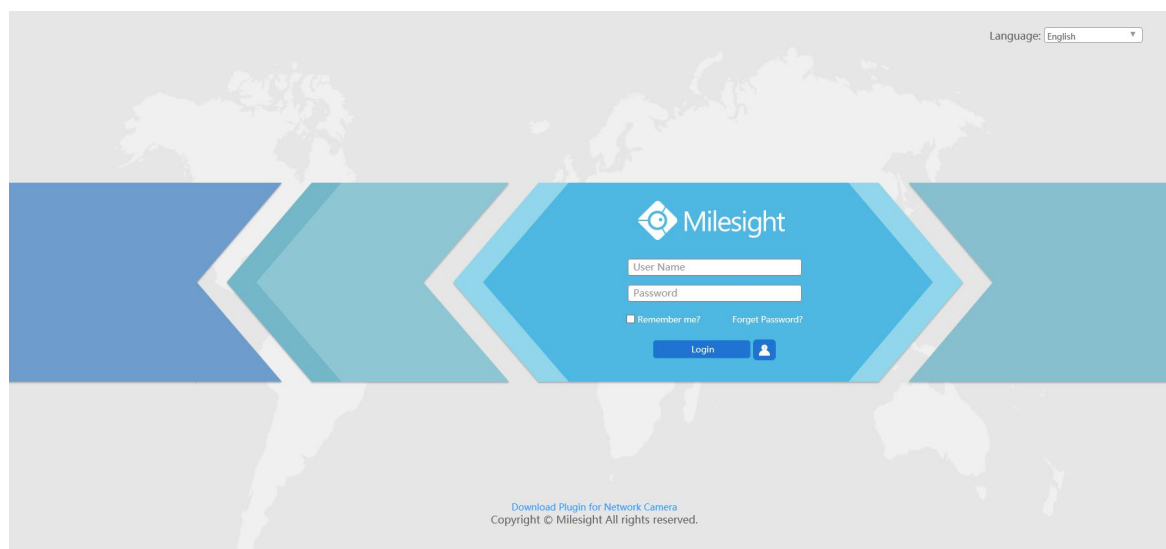


After activation, you can change the IP address or other network values, and then click "Modify" button.

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.



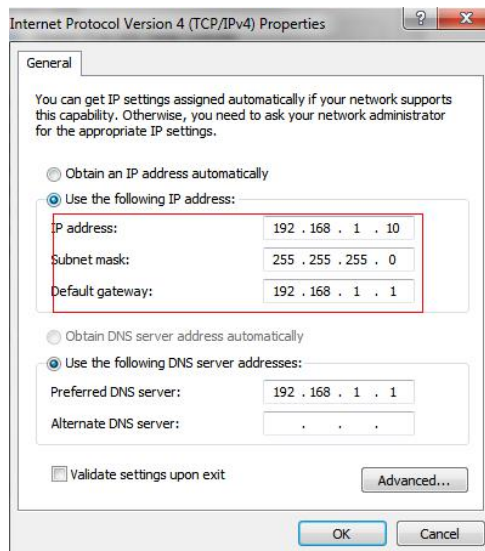
More usage of Smart Tools, please refer to the **Smart Tools User Manual**.

3.1.2 Assign An IP Address via Browser

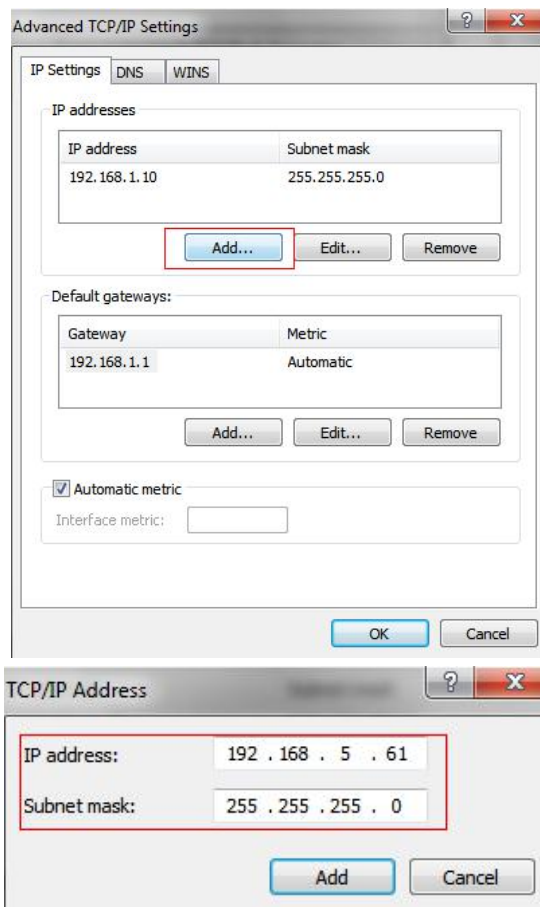
If the network segment of the computer and that of the camera are different, please follow the steps to change the IP address:

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);



- 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:

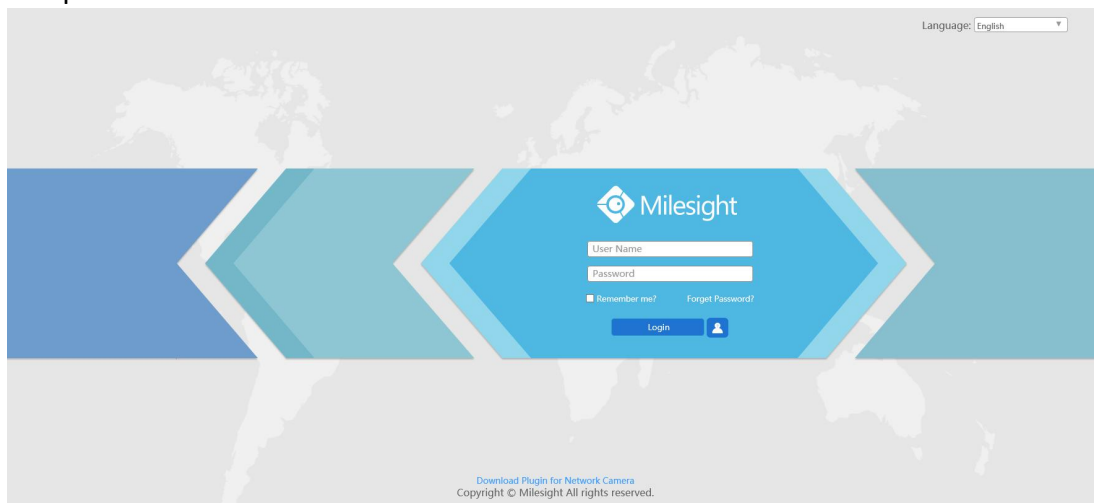
<http://192.168.5.190>;

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**

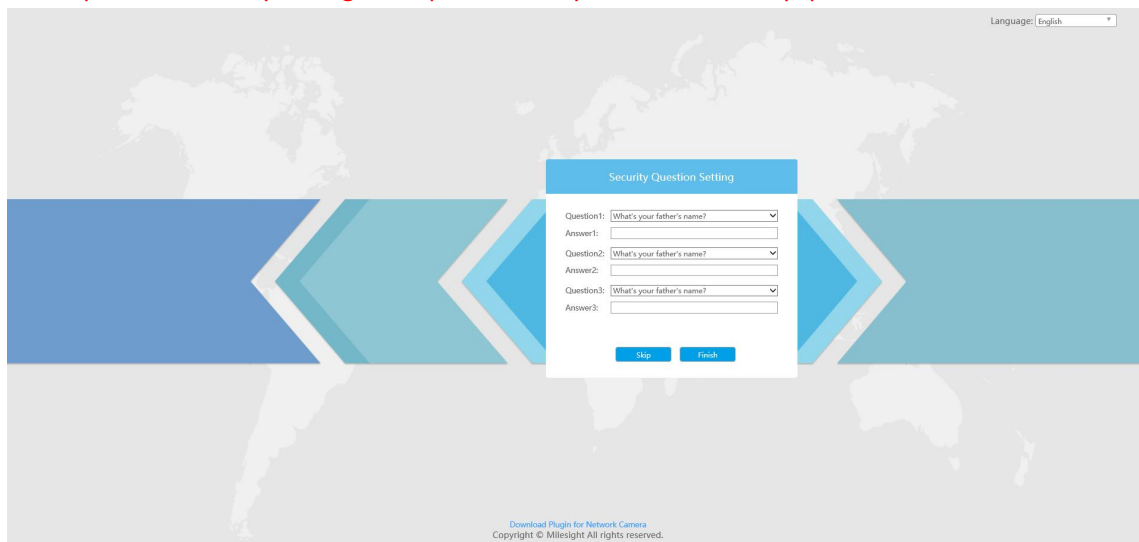
Default password: **ms1234**

The image shows the Milesight login interface. It features a light blue background with a world map. In the center, there is a blue login box with the Milesight logo at the top. Below the logo are input fields for 'User Name' and 'Password'. There are checkboxes for 'Remember me?' and a link for 'Forgot Password?'. A blue 'Login' button is at the bottom of the box. At the top right, there is a language dropdown menu set to 'English'. At the bottom, there is a link to 'Download Plugin for Network Camera' and a copyright notice: 'Copyright © Milesight All rights reserved.'

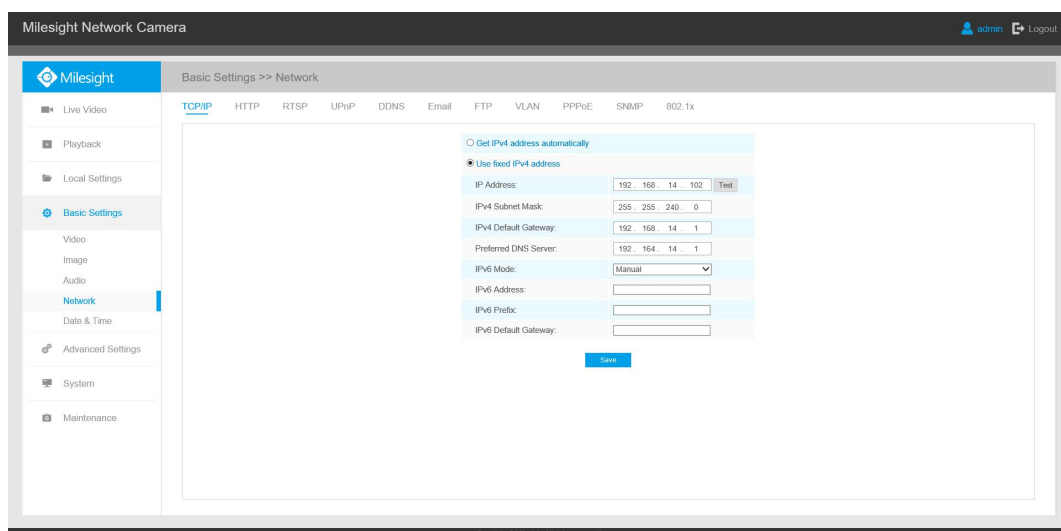
If the camera's firmware version is V4x.7.0.69 or above, you need to set the password first when using it for the first time. And you can also set three security questions for your device after activation. Then, you can log in the device with You can log in to the camera with the username(admin) and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

The image shows the 'Security Question Setting' page. It has a light blue background with a world map. In the center, there is a white box with a blue header 'Security Question Setting'. Inside the box, there are three questions, each with a dropdown menu and an answer field. The questions are: 'What's your father's name?', 'What's your father's name?', and 'What's your father's name?'. At the bottom of the box are two buttons: 'Stop' and 'Finish'. At the top right, there is a language dropdown menu set to 'English'. At the bottom, there is a link to 'Download Plugin for Network Camera' and a copyright notice: 'Copyright © Milesight All rights reserved.'

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”;

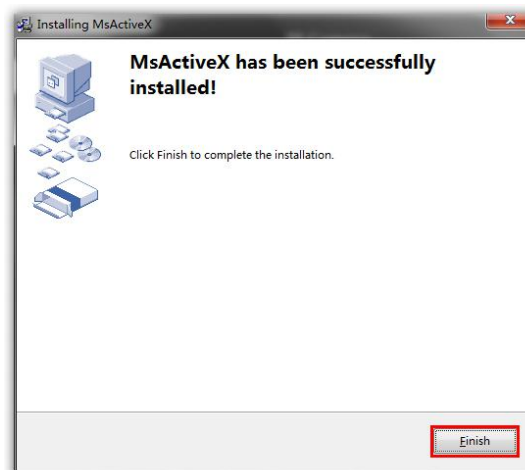
Step3: At the first time to log in the device, the browser will prompt to install Controls, please click “Click here to download and install controls manually” as Figure 3-2-1;

Click here to download and install controls manually

Note:

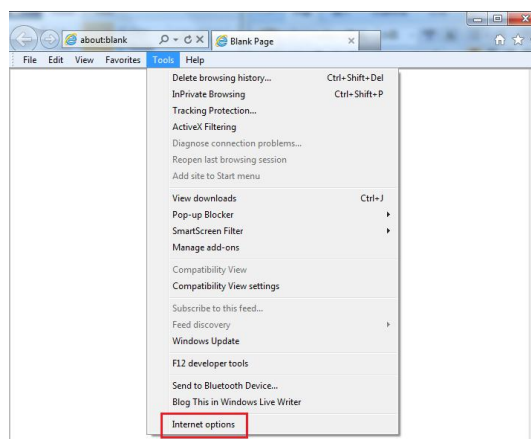
1) During installing the controls, please keep the browsers close.

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

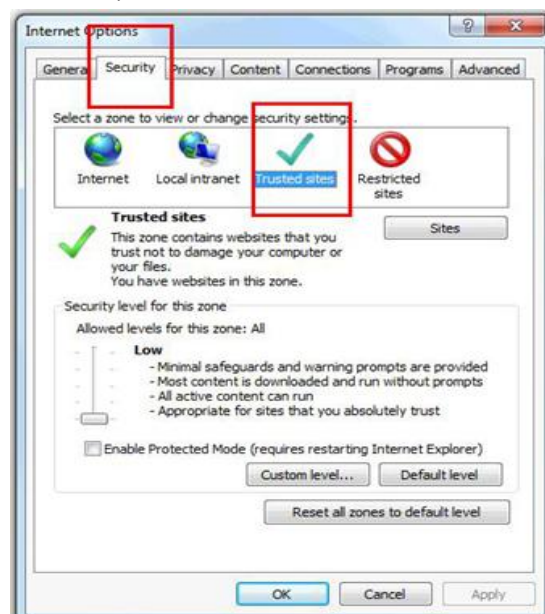


If IE9 or higher version browser is used, it is suggested that the Milesight camera web link should be added as a trusted site. See the instructions as follows:

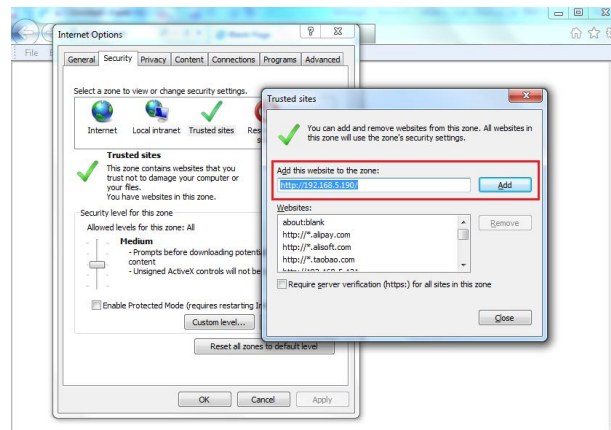
Step1: Start the IE9 or higher version browser, and select “Tools”→ “Internet Options”;



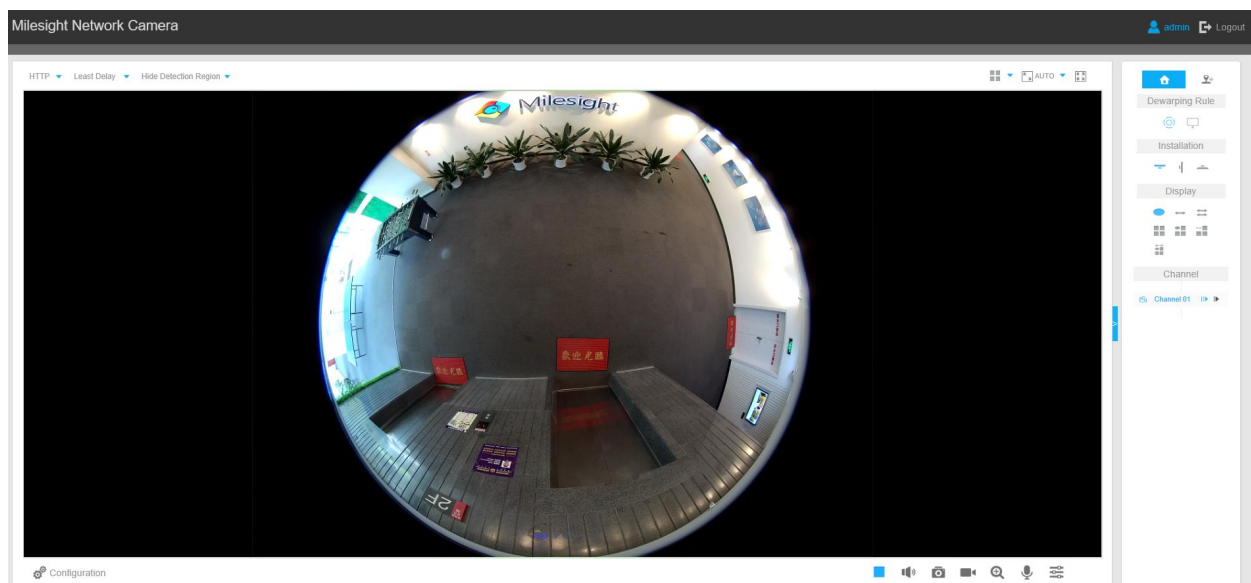
Step2: Select “Security” to “Trusted”;



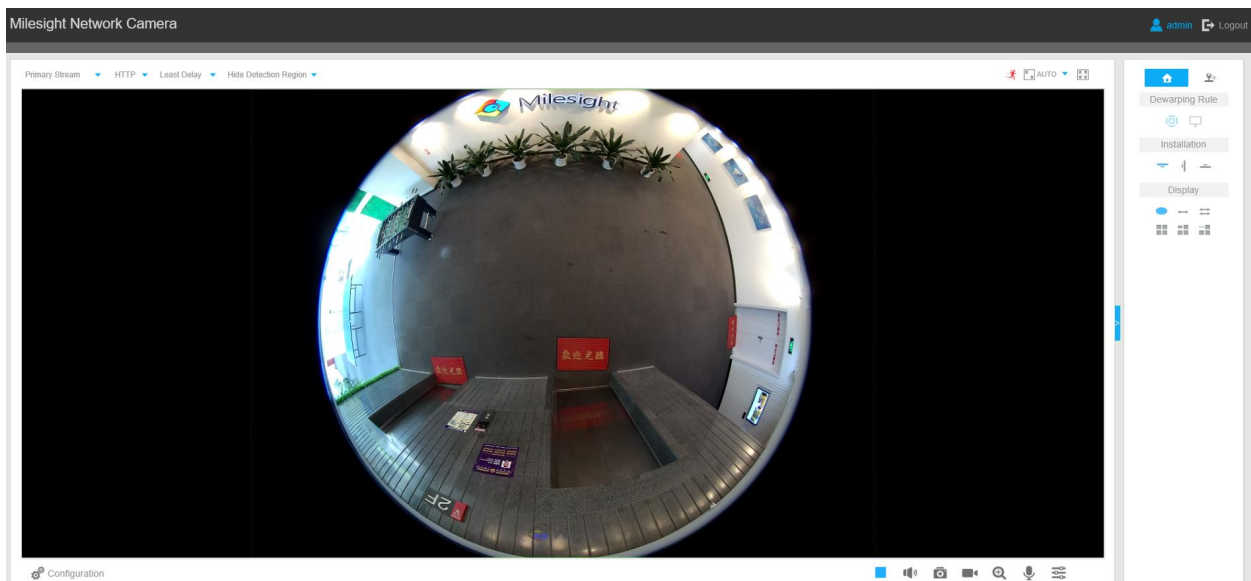
Step3: Enter the IP address of the camera in the blank and click “Add”;



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



Live View Interface (Multi-Channel Mode)



Live View Interface (Bundle-Stream Mode)

3.2.2 Access without Plugin

As browser security becomes more and more important, some browsers don't support installing plugin. In order to normally preview the video on the browser, Milesight upgraded the camera to support Plugin-Free Mode. In Plugin-Free Mode, you can preview the video on the browser without plugin. Currently Plugin-Free Mode is supported in Firefox & Google Chrome & Safari & Edge browser for Windows system, MAC system, iOS 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) For the firmware which below V4x.7.0.74, please upgrade the Network Camera to V4x.7.0.74 or above (Please upgrade the browser to the latest version).
- 3) For V4x.7.0.74 or above, you can enjoy Plugin-Free Mode without any configuration about the browser (Please upgrade the browser to the latest version).

You can preview the video without plugin by selecting Plugin-Free Mode in Live View interface.

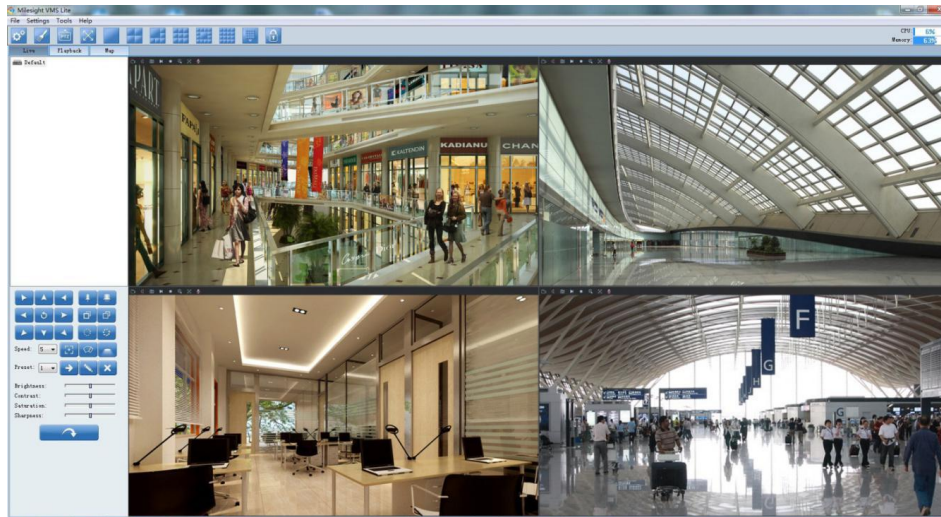


It supports previewing the video in Live View and other setting interfaces.

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.

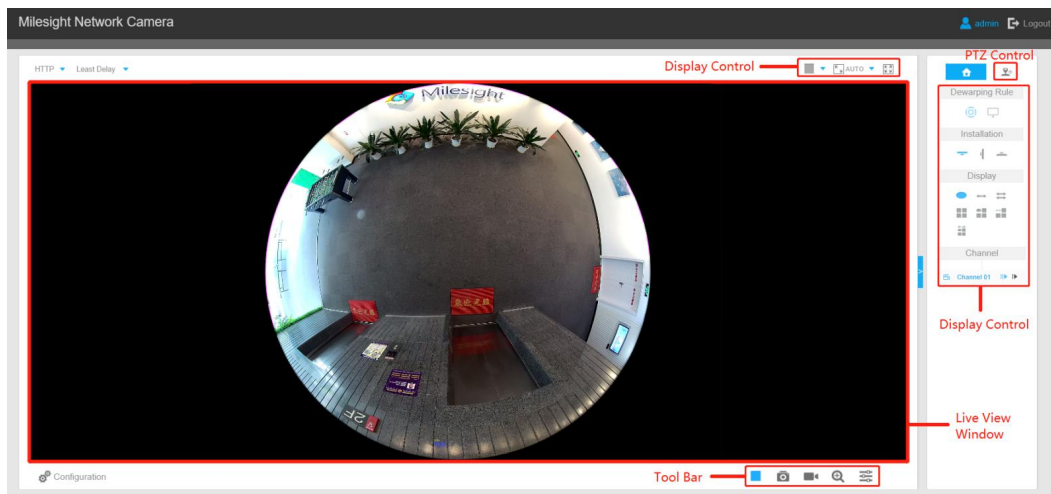
Please install Milesight VMS; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to user manual of Milesight VMS.



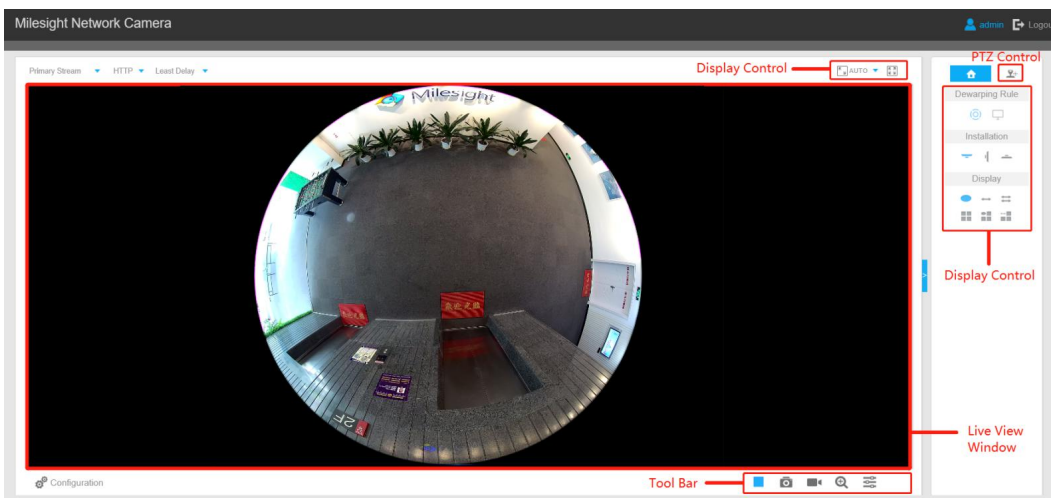
Chapter IV System Operation Guide

4.1 Live Video

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



Live view interface (Multi-Channel Mode)














Live view interface (Bundle-Stream Mode)











4.1.1 Operations on Live View Page

Display Control

Display Control allows you to select install type, display mode, window screen and channel of live view.

Table 4-1-1 Description of Display Control buttons

Item	Parameter	Description
Dewarping Rule	 On-board Dewarping	Click to select on-board dewarping mode.
	 Client-side Dewarping	Click to select client-side dewarping mode.
Installation	 Ceiling Mounting	Click to select ceiling mounting.
	 Wall Mounting	Click to select wall mounting.
	 Flat Mounting	Click to select flat mounting.
Display	 10	Select live view of original fisheye view.
	 1P	Select live view of 360° panoramic view.
	 2P	Select live view of two 180° panoramic views.
	 4R	Select live view of four regional views.
	 103R	Select live view of one original fisheye view and three regional views.
	 1P3R	Select live view of one 360° panoramic view and three regional views.

	(Only for Hardware Dewarping)	
	 101P3R (Only for Multi-Channel Mode of Hardware Dewarping)	Select live view of one original fisheye view, one 360° panoramic view and three regional views.
	 1P1R (Only for Software Dewarping)	Select live view of one 360° panoramic view and one regional view.
	 1P4R (Only for Software Dewarping)	Select live view of one 360° panoramic view and four regional views.
	 1P6R (Only for Software Dewarping)	Select live view of one 360° panoramic view and six regional views.
	 1O8R (Only for Software Dewarping)	Select live view of one original fisheye view and eight regional views.
Channel	 Channel 01 (Only for Multi-Channel Mode)	Click to play this channel on any window of live view.
Window	 Window Layout (Only for Multi-Channel Mode)	Click to set window layout to “1*1”/ “2*2”/ “1+4”.
	 Window Size	Click to display images at a window size.
	 Real Size	Click to display images at a real size.
	 Full Screen	Click to display images at full-screen.

Note:

- A. Original fisheye view: the whole wide-angle view of the fisheye camera is displayed.
- B. Panoramic view: the round fisheye image is transformed to rectangular image by certain calibration methods.

C. Regional view: the close-up view of defined area in the original fisheye view or panoramic view.







D. Select the Installation, Display mode and the most appropriate Window Layout in sequence.

Live View Window

Display live video on the window.

Tool Bar

Table 4-1-2 Description of Tool Bar buttons

No.	Parameter	Description
1		Start/Stop all live view
2	 Capture	Click to capture the current image and save to the configured path. The default path is C:\VMS\+-1\ IMAGE-MANUAL
3	 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
4	 Saving Path Settings	Set the saving path for captured images and video recordings of operating on the live view
5	 Enable Digital Zoom	When it is enabled, you can zoom in in a specific area of video image with your mouse wheel
6		Brightness: Adjust the Brightness of the scene
		Contrast: Adjust the color and light contrast
		Saturation: Adjust the Saturation of the image. Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out"
		Sharpness: Adjust the Sharpness of image. Higher Sharpness sharps the pixel boundary and makes the image looks "more clear"
		2D DNR/3D DNR: Adjust the noise reduction level
	Image Config	Default: Restore brightness, contrast and saturation to default settings






Note:



It will capture images and record videos of first channel by default, you can also capture images and record videos of specified channel manually.

PTZ Control

PTZ Control allows you to use pan/tilt/zoom/preset/patrol function of PTZ, and set PTZ speed.









Table 4-1-3 Description of PTZ Control buttons

No.	Parameter	Description
1	 <p>PTZ Control</p>	Navigation key is used to control the direction. The rotation key is used for auto-rotation.
	 <p>PTZ Speed</p>	To adjust the speed of pan/tilt movements, from 1 to 10
2		Click to zoom in and zoom out
3		Click to focus near or far of the lens.
4		Lighting For 30s: Click to open/ close the White LED for lighting 30s.
		3D Positioning: Click to enable/ disable 3D positioning.
		One-touch Patrol: Click to carry out the patrol.
		Auto Home: Click to enable Auto Home.
		Auto Tracking: With this option enabled, the camera can perform the digital Pan/Tilt/Zoom to track the moving objects automatically. Note: ①Auto Tracking is only supported in regional views . ②Auto Tracking is only supported in ceiling mounting mode of on-board dewarping mode .

5	 Preset	Enable to set 255 preset positions for each regional view channel
6	 Patrol	Enable to set 8 patrol paths for each regional view channel

Other

Table 4-1-4 Description of other buttons/icons

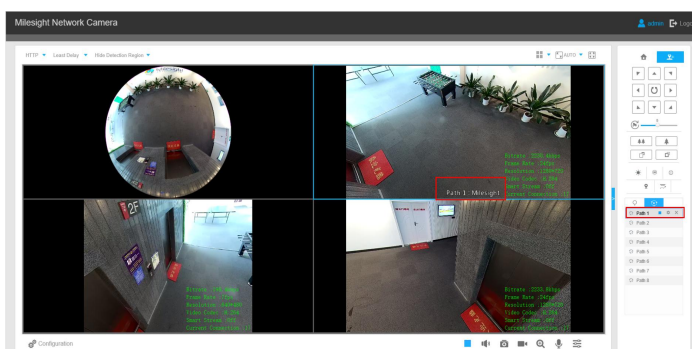
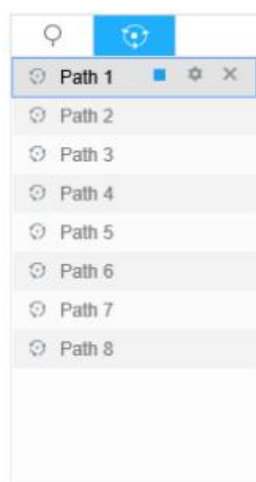
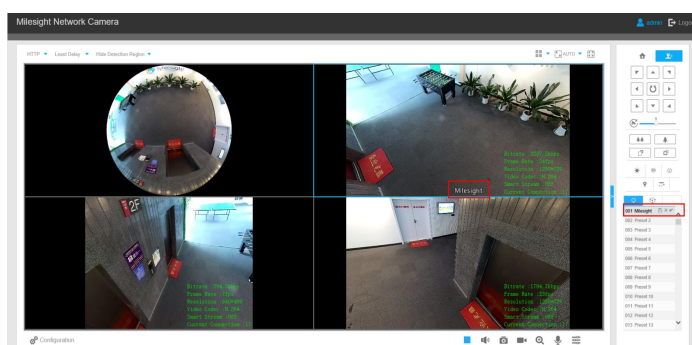
No.	Parameter	Description
1	 (Only for Bundle-Stream Mode)	Choose Primary Stream/Secondary Stream to show on the current video window
2		TCP : More reliable connection; UDP : More instantaneous connection, but if you cannot get the live view successfully, please turn into TCP connection. HTTP : Faster and safer connection especially in Internet environment.
3		Least Delay : The most instantaneous mode in the three modes; Balanced : A balanced mode between Least Delay and Best Fluency, maintains the fluency while keeps an acceptable delay; Best Fluency : The most fluent mode in the three modes.
4		Configuration : Click to access the configuration page.
5	 Recording	When recording, the icon will turn red.
6	 Alarm	When an alarm of Smart Event was triggered, the icon appears
7	 Alarm	When an alarm of Motion Detection was triggered, the icon appears
8	 Alarm	Except for the two kinds of alarms above, when other alarms were triggered, the icon appears

4.1.2 Set / Call a preset / Patrol


A preset is a predefined image position. You can click the call button from the preset list to quickly go to the desired image position.

Set a preset:

Step1: In the PTZ control panel, select a preset number from the preset list, and you can also customize the preset name displayed on the screen. The patrol name displayed on the screen will also be customized if you customize preset name and set a patrol as shown below;



Step2: Use the PTZ control buttons to move the lens to the interested position;

Step3: Click  to save the setting of the current preset;

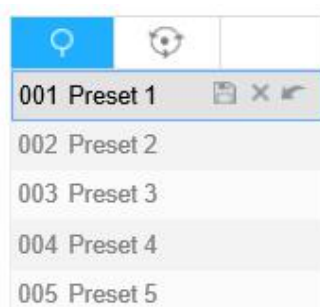
Step4: Click  to delete the chosen preset.

Note:

Up to 225 presets can be configured (for each regional view channel).

Calling a preset:

Select a defined preset form the preset list and click  to call the preset.




Set / Call a patrol

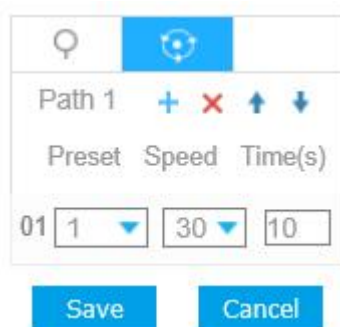
A patrol is a memorized series of preset function. It can be configured and called on the patrol setting list. You can customize up to 8 patrols and it can be configured with 48 presets. Before configuring the patrol, you should make sure that the presets you want to add to the patrol have been defined.

Set a patrol:

Step1: In the PTZ control panel, click  to enter the patrol settings interface;

Step2: Select a patrol number, the setting icon will appear , click it;


Step3: Click  to add presets to this patrol, as shown below;



Step4: Configure the preset number, patrol speed and patrol time;

Table 4-1-5 Description of Patrol Settings

Name	Description
Patrol Speed	The speed of moving from one preset to another.
Patrol Time	The duration staying on one patrol point.


Step5: Click  to save the patrol settings.

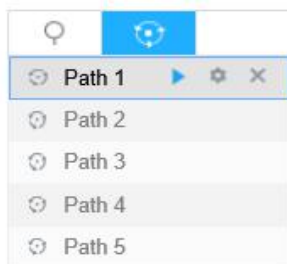
Note:

A. Patrol Speed only works in Patrol mode.

B. Patrol Time should be 0~120s.

Call a patrol:

In the PTZ control panel, select a defined patrol from the patrol list, and click  to call the patrol, as shown below.



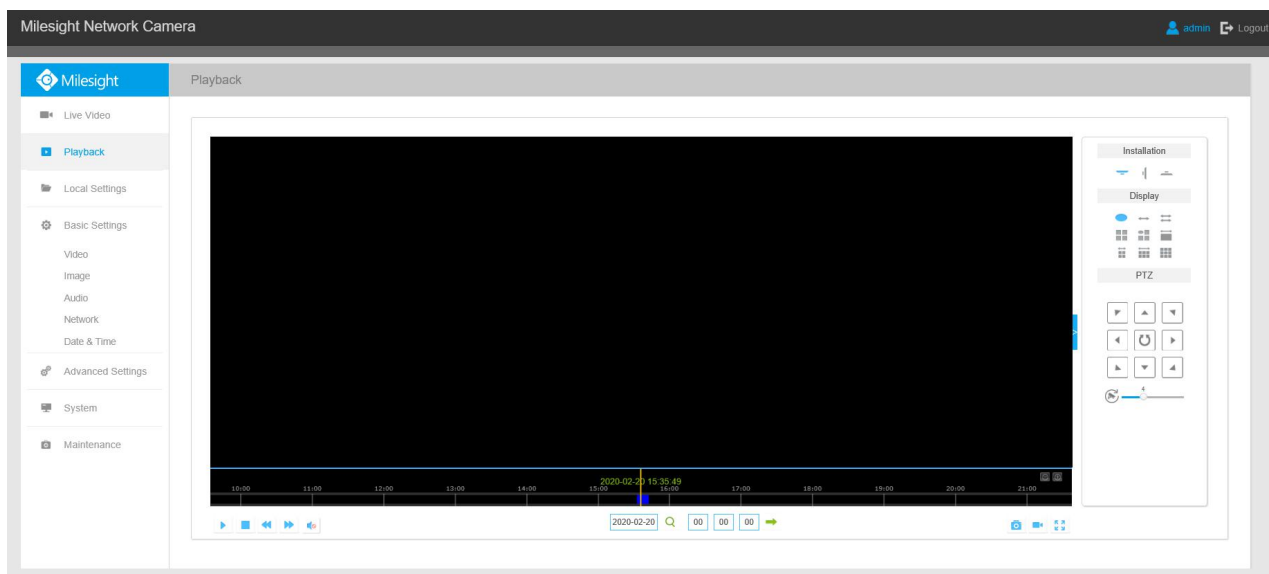
Note:

The three buttons behind the Patrol list means: Play, Set and Delete.

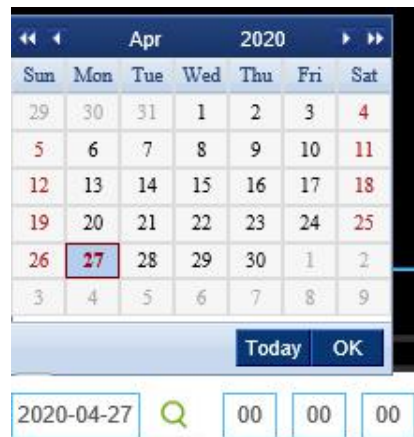
4.2 Playback

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

Step1: Click  Configuration and then 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.
- 2) It supports Plugin-free Playback function which allows to preview the playback without installing plugin in Firefox (Version 65 and above) & Google Chrome (Version 69 and above) ; You need to configure the browser properties before using this function. Please refer to **3.2.2 Access without Plugin** for more browser configuration.

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

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

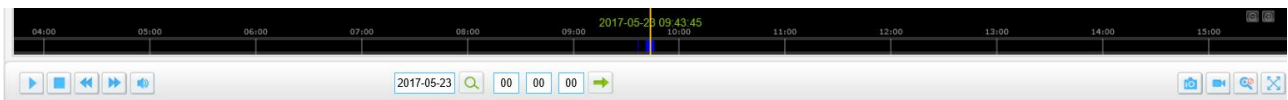





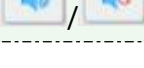










Table 4-2-1 Description of the buttons


Button	Operation
	Play
	Pause
	Stop
	Speed Down
	Speed Up
	Audio On/Off

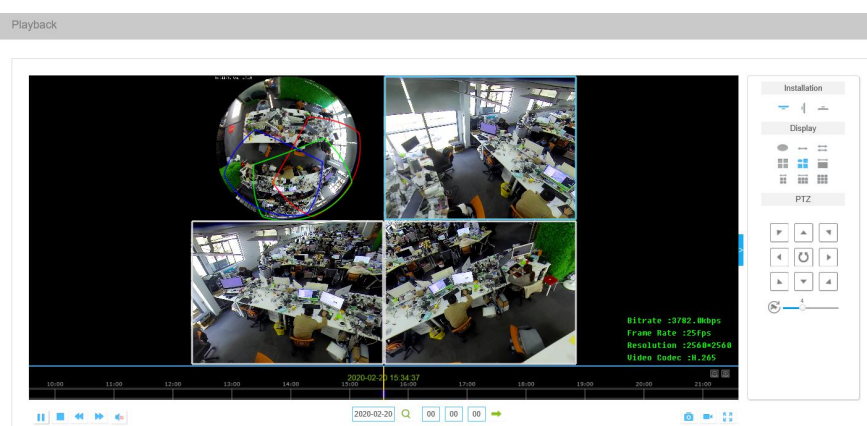
	Search
	Go To
	Time Narrow/Expand
	Start/Stop Recording
	Snapshot
	Zoom On/Off
	Full Screen

Note:

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

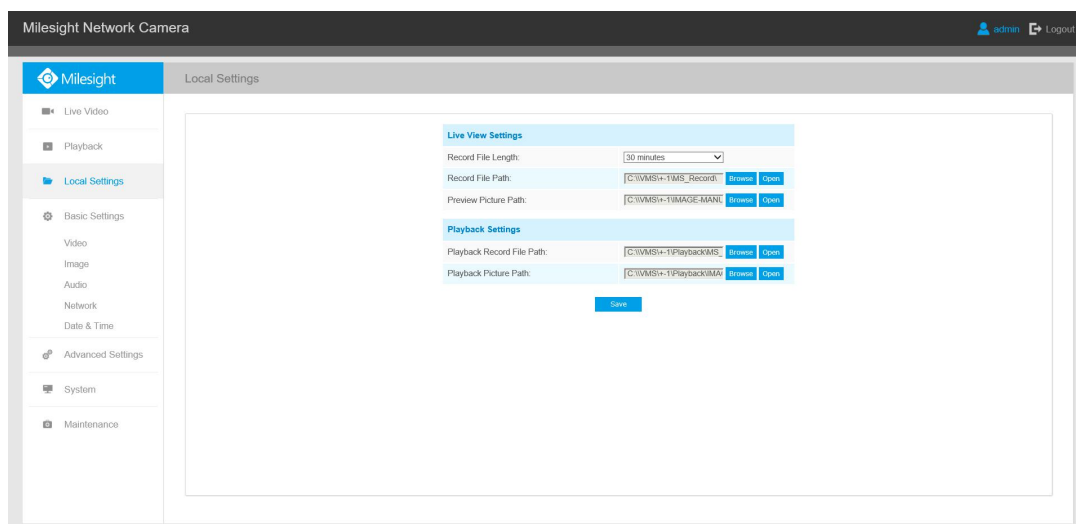


Step4: If the recording contains the original fisheye view(10), it supports client-side dewarping based on the original view in the playback interface. Click  to play the video files, then you can select different installation modes and display modes as shown below. It also supports PTZ function for panoramic view and regional views.



4.3 Local Settings

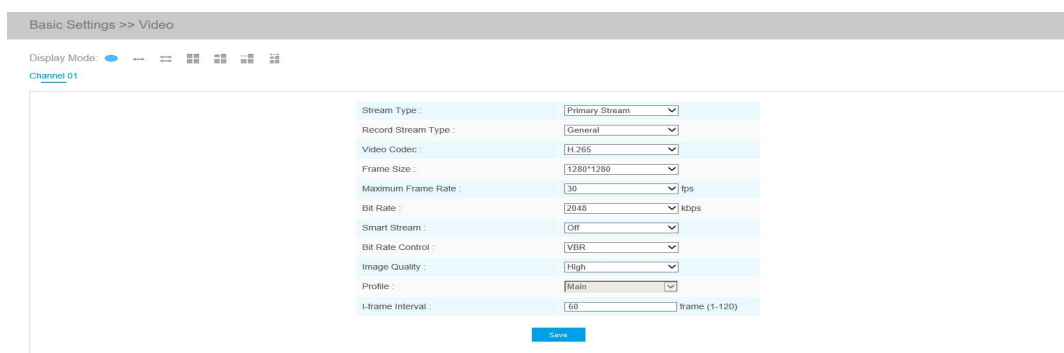
Record File Length and storage path can be customized in this setting page.



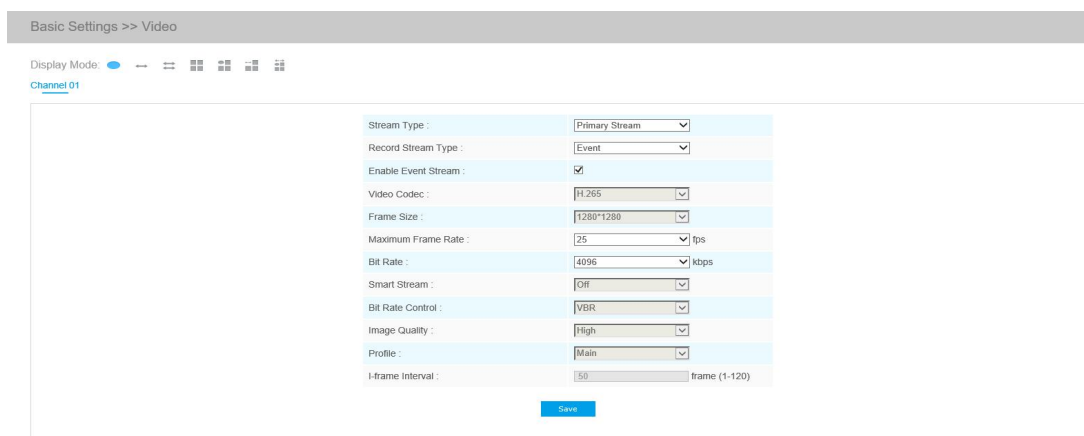
4.4 Basic Settings

4.4.1 Video

Stream parameters can be set in this module, adapting to different network environments and demands. You can set the stream parameters separately for different channels base on display mode in live view (up to 5 channels).



Multi-Channel Mode (General)



Multi-Channel Mode (Event)

Basic Settings >> Video

Display Mode: 10 1P 2P 4R 103R 1P3R

Primary Stream Secondary Stream

Record Stream Type :	General
Video Codec :	H.265
Frame Size :	1280*1280
Maximum Frame Rate :	30
Bit Rate :	2048
Smart Stream :	Off
Bit Rate Control :	VBR
Image Quality :	High
Profile :	Main
I-frame Interval :	60

Save

Bundle-Stream Mode (General)

Basic Settings >> Video

Display Mode: 10 1P 2P 4R 103R 1P3R

Primary Stream Secondary Stream

Record Stream Type :	Event
Enable Event Stream :	<input checked="" type="checkbox"/>
Video Codec :	H.265
Frame Size :	1280*1280
Maximum Frame Rate :	25
Bit Rate :	4096
Smart Stream :	Off
Bit Rate Control :	VBR
Image Quality :	High
Profile :	Main
I-frame Interval :	60

Save

Bundle-Stream Mode (Event)

Table 4-4-1 Description of the buttons

Parameters	Function Introduction
Channel (Only for Multi-Channel Mode)	The number of channels are variable according to the selected display mode. 10 and 1P display one channel. 2P displays two channels. 4R, 103R and 1P3R display four channels. 101P3R displays five channels.
Display Mode	10/1P/2P/4R/103R/1P3R are available.
Stream Type (Only for Multi-Channel Mode)	Primary Stream/Secondary Stream are available.
Record Stream Type	General & Event are available only for Primary Stream of Bundle-Stream Mode and Channel 01 of Multi-Channel Mode. General refers to continuously recording video, while Event includes events that can trigger alarms, such as Motion, Exception, Audio Alarm and so on.

	<p>This item can set different bit rate and frame rate separately for different Recording Stream Types. If user chooses Event, video will be recorded according to the configuration of video stream type when an event happens, thereby greatly reducing the recording storage space.</p>
Video Codec	H.265/H.264 are available.
Frame Size	<p>For Multi-Channel Mode: 4000*3000, 3000*3000, 2560*2560, 1920*1920, 1280*1280, 1280*960, 1024*1024, 720*720, 320*320, are available frame size for original fisheye view in 1O. 2560*2560, 2560*640, 1920*1920, 1920*480, 1280*1280 are available frame size for original fisheye view in 1O3R and 1O1P3R. 3000*752, 2560*, 2560*640, 1920*480, 1280*320, 960*240 are available frame size for 360° panoramic view in 1P, 1P3R and 1O1P3R. 2560*640, 1920*480 are available frame size for 360° panoramic view in 1O1P3R 3000*1680, 2688*1520, 2592*1460, 1920*1080, 1280*720 are available frame size for two 180° panoramic views in 2P. 1920*1080, 1280*720, 640*480 are available frame size for regional view.</p> <p>For Bundle Stream Mode: 4000*3000, 3000*3000, 2560*2560, 2592*1944, 1944*1944, 1920*1920, 1536*1536, 1280*1280 are available frame size for 1O. 3000*752, 2592*648, 2560*640, 1920*480, 1280*320 are available frame size for 1P. 3000*1680, 2688*1520, 2592*1460, 1920*1080, 1280*720 are available frame size for 2P. 4000*3000, 3840*2160, 3072*1728, 2592*1944, 2304*1296 are available frame size for 4R, 1O3R and 1P3R.</p>
Maximum Frame Rate	<p>Maximum Frame Rate means maximum refresh frame rate of per second, it is variable according to the display mode selected.</p>
Bit Rate	<p>Set the bitrate to 16~16384 Kbps. The higher value corresponds to the higher video quality, and the higher bandwidth is required as well.</p>
Smart Stream	<p>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.</p> <p>There is an option to turn On/Off Smart Stream mode.</p> <p>Level: Level 0~10 are available to meet your need.</p>
Bit Rate Control	<p>CBR: Constant Bitrate. The rate of CBR output is constant.</p> <p>VBR: Variable Bitrate. VBR files vary the amount of output data per time segment.</p>
Image Quality	<p>Low/Medium/High are available, this item is optional only if you select VBR.</p>

Profile	The option is for H.264. Main/High/Base can be selected according to your needs.
I-frame Interval	Set the I-frame interval to 1~120, 50 for the default. The number must be a multiple of the number of frames

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

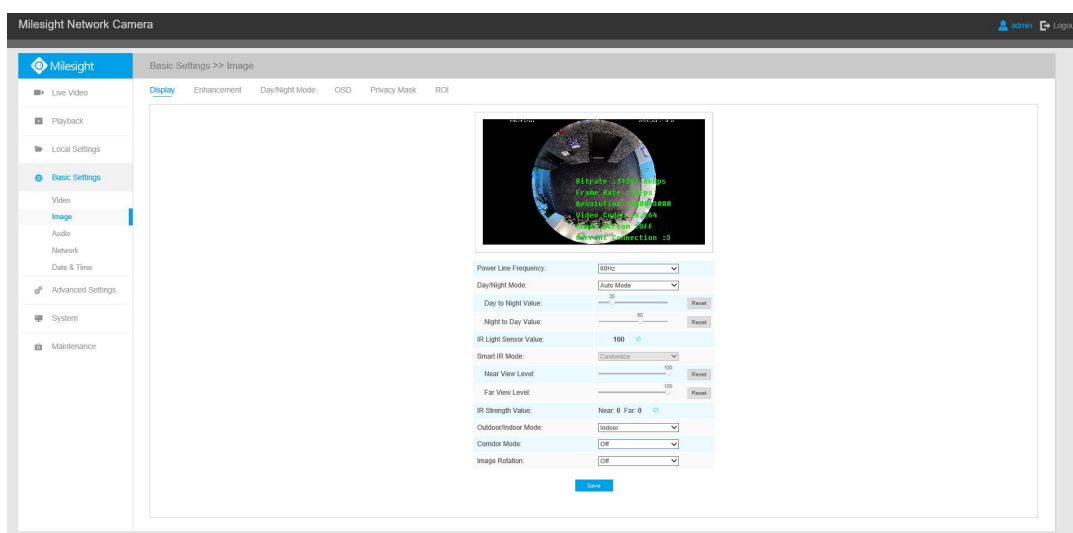


Table 4-4-2 Description of the buttons

Parameters	Function Introduction
Power Line Frequency	60Hz flicker for 30fps camera model and 50Hz flicker for 25fps camera model
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: Show in live view based on Night Mode settings</p> <p>Day Mode: Show in live view based on Day Mode settings</p> <p>Auto Mode: Show 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: Show 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. Customize mode is available.
IR Strength Value	The current value of Low-Beams LED and High-Beams LED light value
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.
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

Enhancement

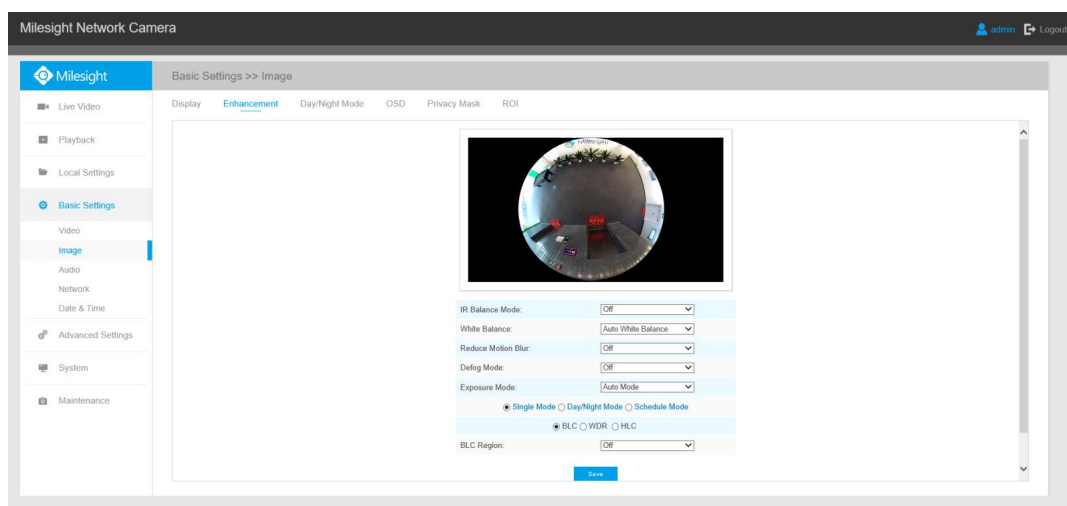


Table 4-4-3 Description of the buttons

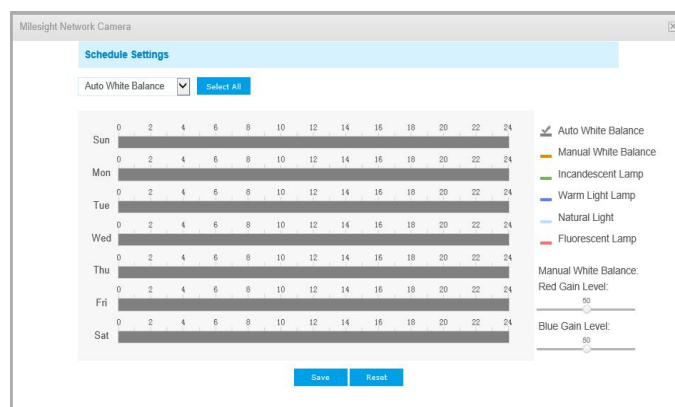
Parameters	Function Introduction
------------	-----------------------

IR Balance Mode	There is an option to turn On/Off the IR LED. Turn IR Balance Mode on, and the IR LED will change according to the actual illumination.
White Balance	<p>To restore white objects and remove color distortion cause 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: 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>
Reduce Motion Blur	<p>Enable this function to reduce the motion blur of objects effectively.</p> <p>You can adjust the deblur level from 1 to 100.</p>
Defog Mode	This function is only for H.265 series. Better image effect in foggy weather, refers to Figure 4-4-8
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	Set single mode for BLC/WDR/HLC.
Day/Night Mode	Support BLC/WDR/HLC on Day Enhancement Mode/Night Enhancement Mode separately.
Schedule Mode	Set schedule mode for BLC/WDR/HLC.
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>

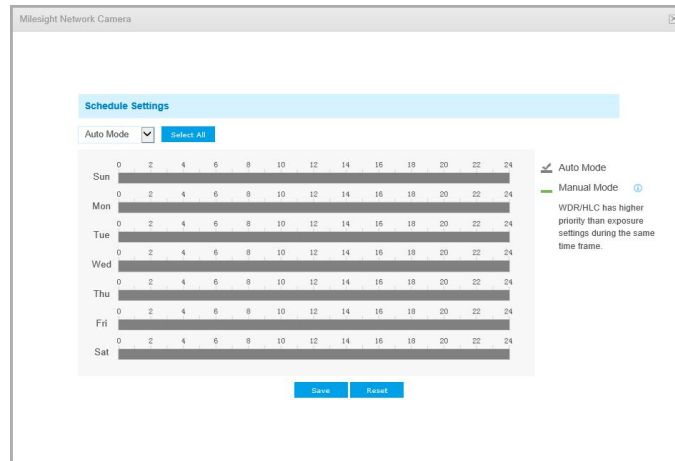
	On: Enable the WDR, there are Low/High/Auto three levels Customize: Customize the schedule to enable/disable the WDR function and set the levels with Low/High/Auto
Wide Dynamic Level	Set WDR with Low/High/Auto level
Anti-flicker Level	Reduce flickers that appear on screen in some lighting conditions 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 4-4-9</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:

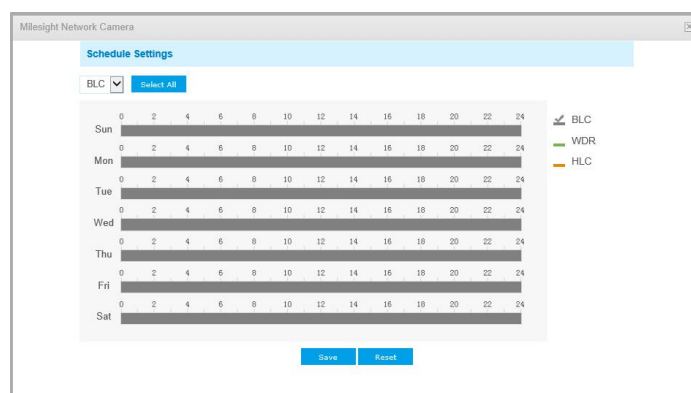
1) You can customize the schedule to enable/disable the difference White Balance modes.



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.

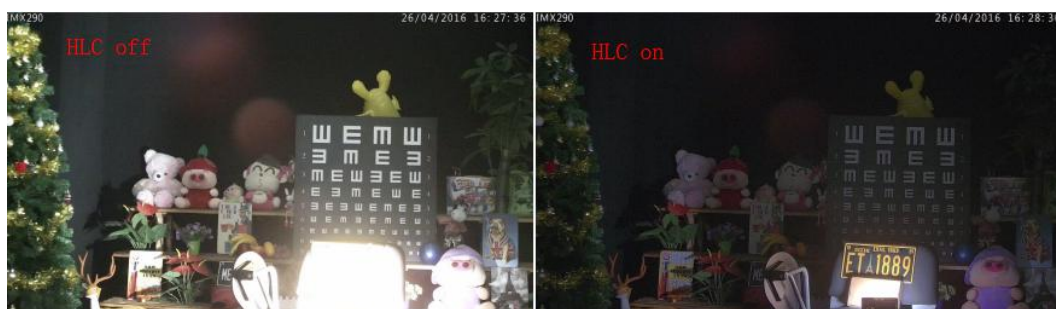


4) WDR/HLC has higher priority than exposure settings at the same time frame.

5) Defog Image.



6) HLC Image.



Day/Night Mode

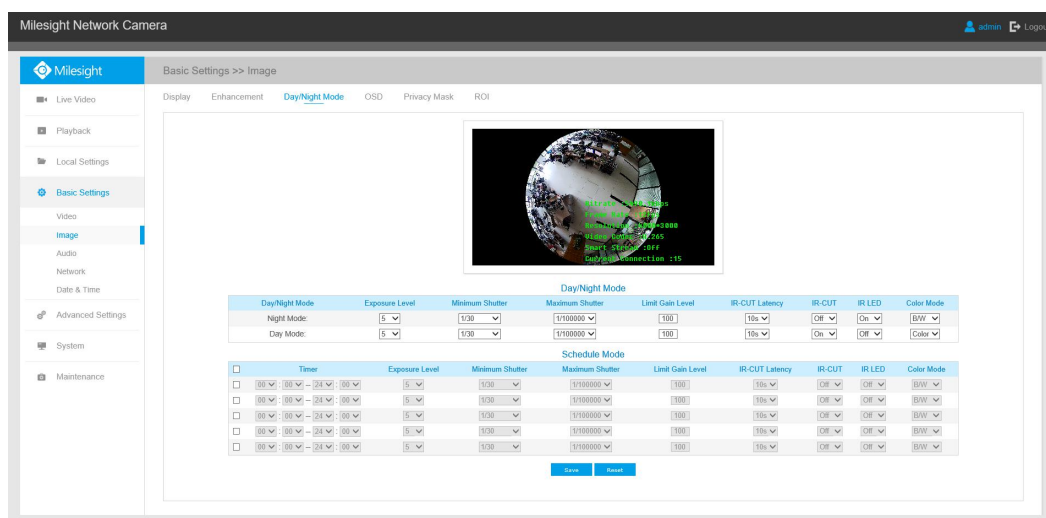


Table 4-4-4 Description of the buttons

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 Maximum 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	Choose to turn on or turn off under this mode. LED off: Turn off all the LEDs on the device; IR LED on: Turn on the IR LED;
Color Mode	Select B/W or Color mode under Day/Night mode.

Schedule Mode

By this you can customize your special demands for different time, then the Day mode and Night mode will switch automatically according to your settings.

OSD(On Screen Display)

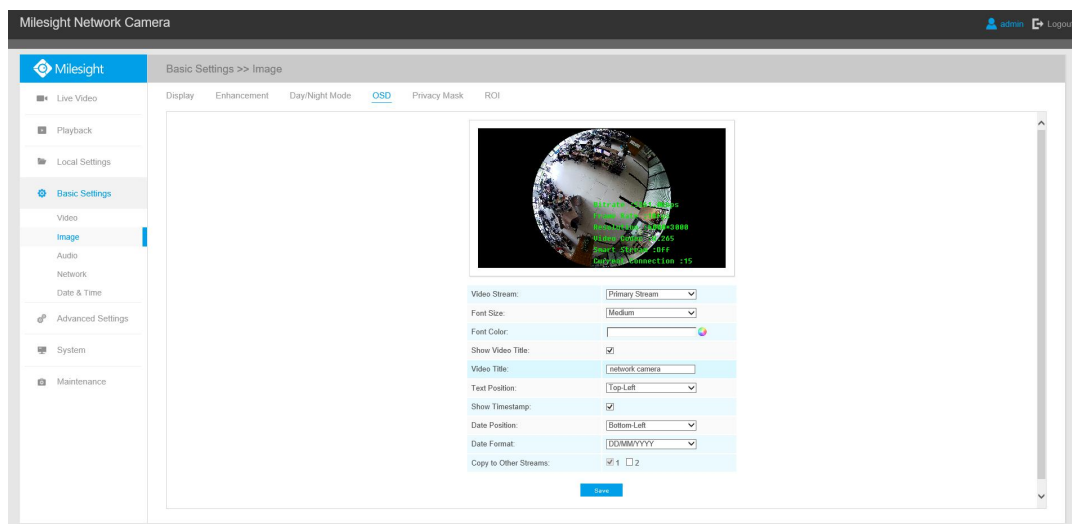


Table 4-4-5 Description of the buttons

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 8 mask areas at most.

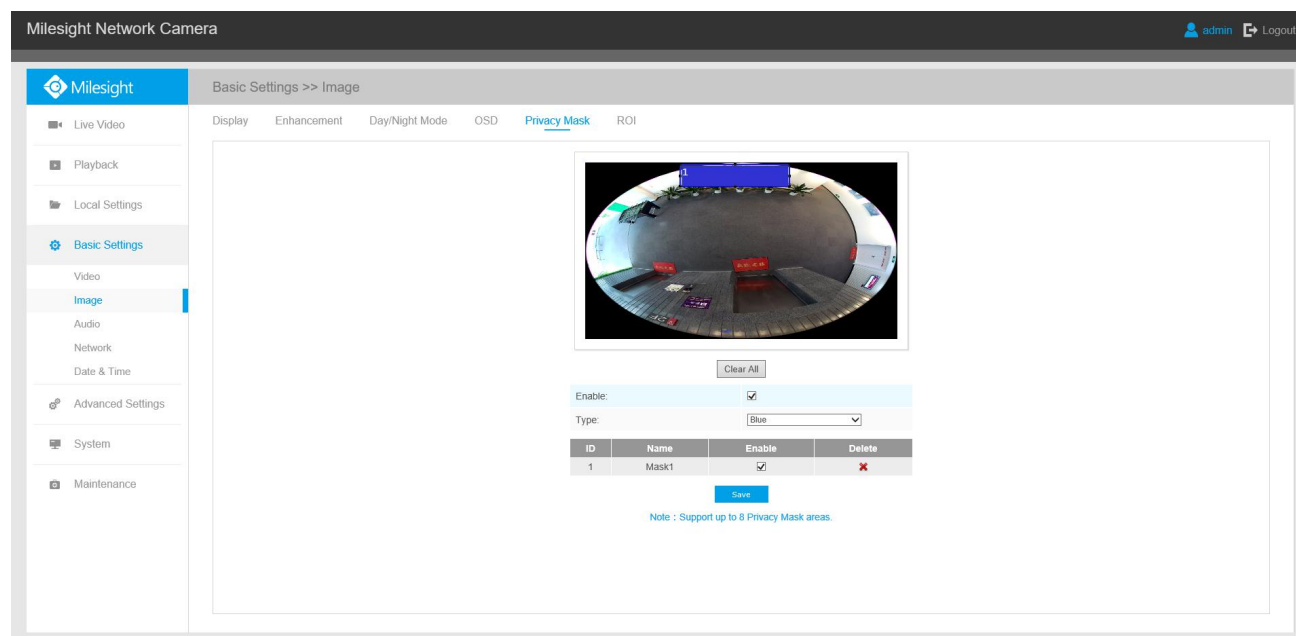


Table 4-4-6 Description of the buttons

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

Note:

You can only set the Privacy Mask area on Fisheye View channel.

ROI

Region of interest(often abbreviate ROI), is a selected subset of samples within a dataset identified for a particular purpose. Users can select up to 8 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.

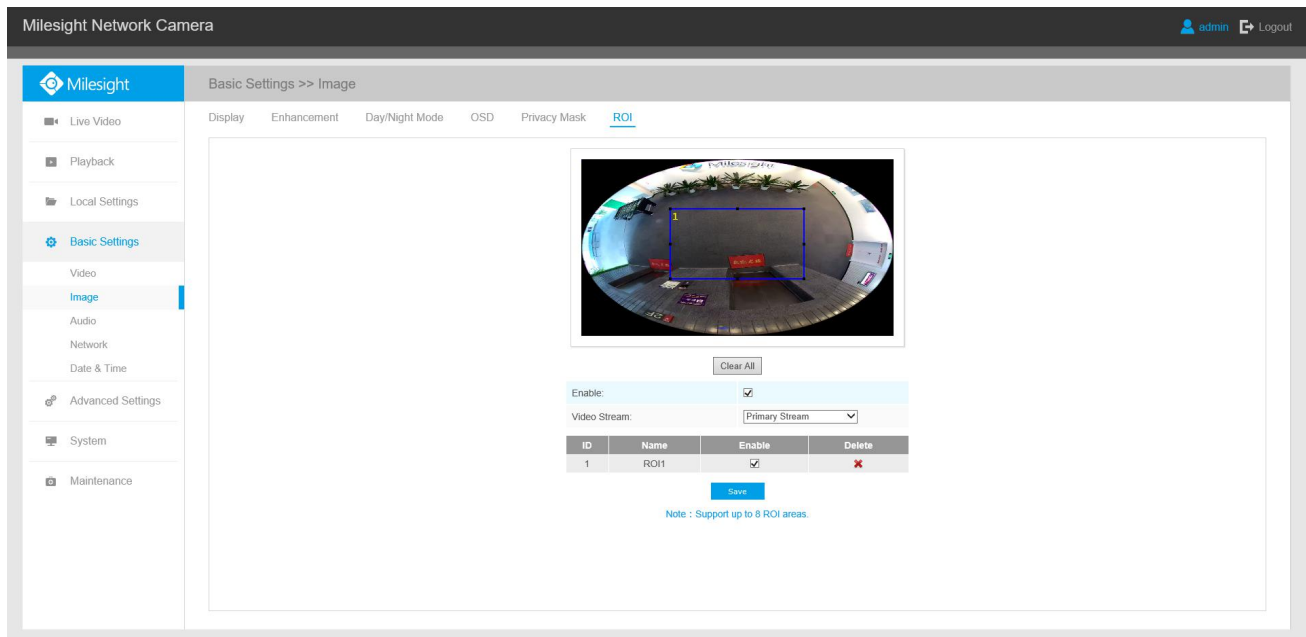


Table 4-4-7 Description of the buttons


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 of 512Kbps and a resolution of 1080P, then you can see the image quality of ROI is more clear and fluent than the other region.
- You can set the ROI area separately for different channels base on display mode in live view.

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.



Enable Audio:
☐

Audio Mode:

Audio Output ▼

Audio Input

Denoise:
☒

Encoding:

G.711-ALaw ▼

Sample Rate:

8KHz ▼

Input Gain:

88

Audio Output

Auto Gain Control:
☒

Output Volume:

70

Save

Table 4-4-8 Description of the buttons

Parameters	Function Introduction
Enable Audio	Check on the checkbox to enable audio feature.
Audio Input	Denoise: Set it as On/Off. When you set the function on, the noise detected can be filtered. Encoding: G.711-ULaw, G.711-ALaw, AAC LC, G.722 and G.726 are available; Audio Bit Rate: The function is available only for AAC LC, and supports up to 256kbps Sample Rate: 8KHz, 16KHz, 32KHz, 44.1KHz, and 48KHz are available Sample Rate: There are 8KHz/16KHz two options; Input Gain: Input audio gain level, 0-100.
Audio Output	Auto Gain Control: Improve the quality of audio; Output Volume: Adjust volume of output.

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: Flash

Audio File Upload

Audio File Name:

Audio File: Browse...

Upload

ID	Audio File Name	Delete
1	audio	✖

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

Note:

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: Test

IPv4 Subnet Mask:

IPv4 Default Gateway:

Preferred DNS Server:

IPv6 Mode: Manual

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

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

HTTPS Settings

Installed Certificate: Reset

Attributes:

Awarded to:
C=US, H/IP=IPC
Issuer:
C=US, H/IP=IPC
Period of Validity:
Dec 18 06:46:09 2019 ~
Sep 12 06:46:09 2022

Installation Type:

Create a Private Certificate: Create

Save

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

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"/> <input type="text" value="6"/> <input type="text" value="6"/> <input type="text" value="6"/>	
QoS DSCP(0~63):	<input type="text" value="0"/>	

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 for Bundle-Stream Mode are as below:


Stream	URL
Primary Stream	rtsp://IP:RTSP Port/main
Secondary Stream	rtsp://IP:RTSP Port/sub

RTSP URL for Multi-Channel Mode are as below:

Stream	URL
Channel 01	rtsp://IP:RTSP Port/main

Channel 02	rtsp://IP:RTSP Port/sub
Channel 03	rtsp://IP:RTSP Port/third
Channel 04	rtsp://IP:RTSP Port/fourth
Channel 05	rtsp://IP:RTSP Port/fifth

Note:

- 1) Get the format of RTSP URL by clicking “” on the right side of RTSP Port.
- 2) 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.
- 3) A reboot is required for the settings to take effect.

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

Save

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, 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 port of SMTP server. The default TCP/IP port for SMTP is 25(not secured). For SSL/TLS port, it depends on the mail you use
Recipient Email Address1	Email address to receive video files
Recipient Email Address2	Email address to receive video files
Encryption	Check the checkbox to enable SSL or TLS if it is required by the SMTP server.

FTP

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

FTP Server Settings

Server Address:

Server Port:

User Name:

Password:

FTP over SSL/TLS(FTPS): ☐

FTP Storage Settings

Storage Path:

Parent Directory:

Alarm Action File Name:

Timing Snapshot File Name:

Pre-record:

Save

Test

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 on 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 video file name, YYYY-MM-DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.
Image File Name	If you choose to customize image 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 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="."/>

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

Note:

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

2) The user name and password should be assigned by your ISP.

SNMP

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

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

SNMP v1/v2

SNMP V1 Enable:

☐

SNMP V2c Enable:

☐

Write Community:

public

Read Community:

private

SNMP v3

SNMP V3 Enable:

☐

Read Security Name:

Level of Security:

no auth,no priv

Write Security Name:

Level of Security:

no auth,no priv

SNMP Port

SNMP Port:

161

Save

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

Write Security Name	Input the name of Write Security Community
Level of Security	There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv)
SNMP Port	The port of SNMP, the default is 161

Note:

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

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
Eapol Version:	1
User Name:	<input type="text"/>
Password:	<input type="password"/>
Confirm Password:	<input type="password"/>

[Save](#)

Bonjour

Bonjour is based on Apple's multicast DNS service. Bonjour devices can automatically broadcast their service information and listen to the service information of other devices.

If you don't know the camera information, you can use the Bonjour service on the same LAN to search for network camera devices and then to access the devices.

Enable Bonjour:	<input checked="" type="checkbox"/>
Bonjour Name:	MS-C2962-FPB-1CC316210991

[Save](#)

RTMP

Real-Time Messaging Protocol (RTMP) was initially a proprietary protocol for streaming audio, video and data over the Internet, between a Flash player and a server. RTMP is a TCP-based protocol which maintains persistent connections and allows low-latency communication. It can realize the function of live broadcast so that customers can log in to the camera wherever there is a network.

Enable RTMP:	<input checked="" type="checkbox"/>
Stream Type:	Secondary Stream ▼
Server Address:	rtmp://a.rtmp.youtube.com/

Save

For more information, please refer to ***Milesight-Troubleshooting-How to Use RTMP for Live Broadcast***

Note:

- 1) For YouTube live broadcast, if you use a newly created account to live broadcast, you need to wait for 24hrs to activate the account for using live function.
- 2) For RTMP, since G.711 is not available for YouTube, so you can only play video from Milesight Network Camera with H.264 video coding and AAC audio coding on YouTube.
- 3) Server Address in Network Camera RTMP interface needs to be filled with the format: rtmp://< Server URL >/< Stream key >, remember it needs '/' to connect between < Server URL > and < Stream key >.

4.4.5 Date&Time

Current System Time	
Date:	27/04/2020
Time:	14:40:49

Set the System Time	
Time Zone:	(UTC+08:00) Singapore ▼
Daylight Saving Time:	Automatic ▼
<input checked="" type="radio"/> NTP server	
Server Address:	192.168.14.101
NTP Sync:	<input checked="" type="checkbox"/> Interval: 1 day ▼
<input type="radio"/> Manual	
Time:	27/04/2020 14:40:28
<input type="radio"/> Synchronize with computer time	
Date:	27/04/2020
Time:	14:40:50

Save

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 server	Input the address of NTP server.
NTP Sync	Regularly update your time according to the interval time.
Manual	Set the system time manually.
Synchronize with computer time	Synchronize the time with your computer.

4.5 Advanced Settings

4.5.1 Alarm

Motion Detection

Step1: Check the checkbox to enable the motion detection;

Note: Currently, the motion detection is only supported in 10, 1P, and 4R of bundle-stream mode.

Step2: Set motion region;

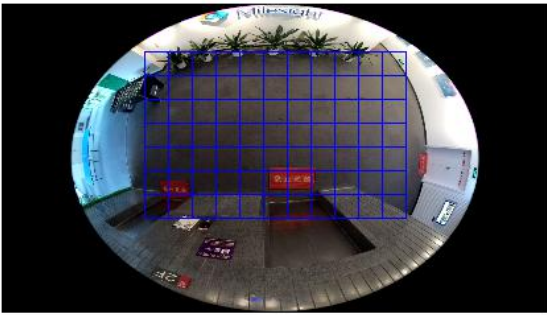
Enable Motion Detection:

☒

Onvif Motion ActiveCells Settings:

Normal

Set Motion Region



Select All

Clear All

Note: 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, and the motion in the area will be detected.
Clear All	Click the button, and the area drawn before will be removed.
Sensitivity	Sensitivity level, 1~10

Step3: Set motion detection schedule;

Schedule Settings



Edit

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.
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: Three HTTP notifications at most can be added to the same event.

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 the Digifort will be taken 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: Confirm the HTTP Notification as Alarm Action, and fill the fields. Then save the alarm setting. You can add up to three HTTP notifications to the same event;

HTTP Notification:	<input checked="" type="checkbox"/>
HTTP Notification URL:	URL 1 <input type="button" value="v"/>
Enable:	<input checked="" type="checkbox"/>
Trigger Interval:	5 (0-900) s
URL:	192.168.8.75:8601/Interface/Cameras/MotionDetection/Notify?Camera=annie
User Name:	admin
Password:	••••••••

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

HTTP Password: ms1234 (the password of your camera)

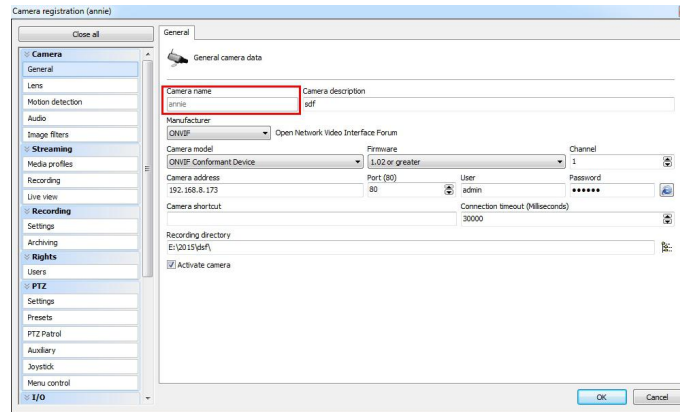
HTTP Notification URL:

<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.

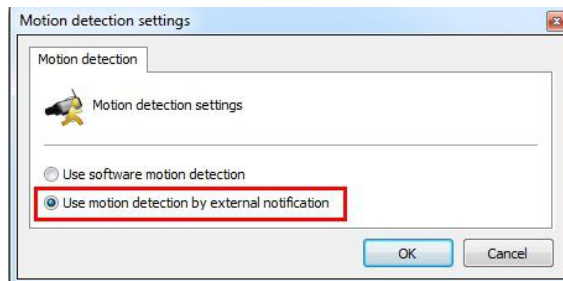
CameraName is the camera name you set in Digifort VMS, like the picture shown below.



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 turn 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 ▼
Snapshot:	3 ▼
Snapshot Interval:	1 second ▼
External Output Action Time:	30 seconds ▼
Audio Action Settings:	<button>Edit</button>
Play Audio Interval:	Auto ▼

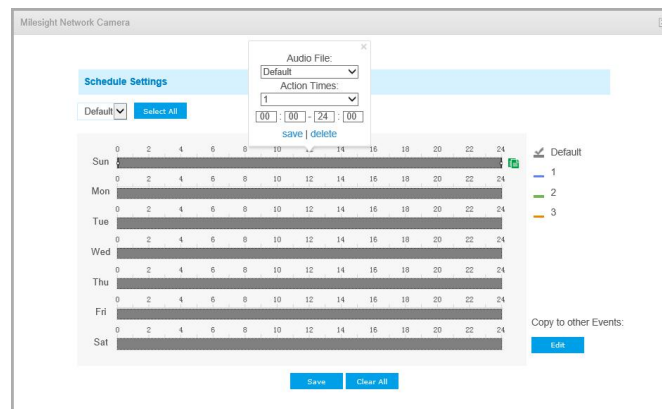
Save

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).
Snapshot	The number of snapshot, from 1 to 5.
Snapshot Interval	It 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 when 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.



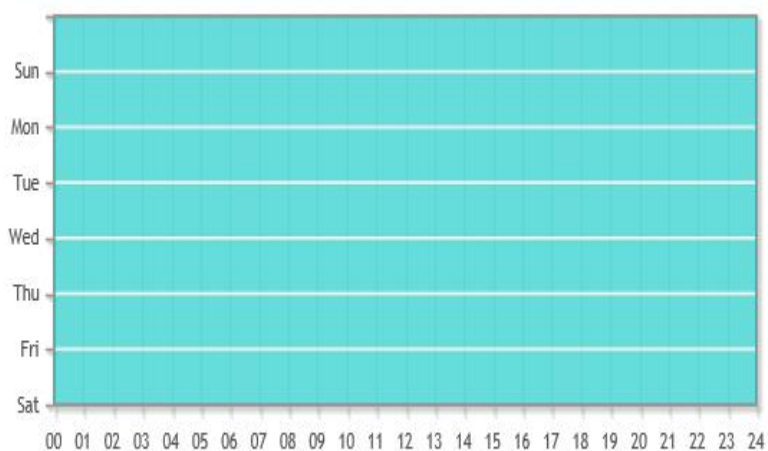
Audio Alarm

Enable the Audio before using Audio Alarm function.

Enable Audio Alarm:	<input type="checkbox"/>
Alarm Threshold:	<input type="range" value="25"/>
Audio Sample Value:	<input type="text" value="0"/> 



Schedule Settings


[Edit](#)

Alarm Action

Save Into Storage:	<input type="checkbox"/> File Format: Record
Upload Via FTP:	<input checked="" type="checkbox"/> File Format: Record
Upload Via Email:	<input checked="" type="checkbox"/> File Format: Snapshot
External Output:	<input type="checkbox"/> (Please configure the External Output Action Time.)
Play Audio:	<input type="checkbox"/> (Please enable the Audio Speaker.)
Alarm to SIP Phone:	<input type="checkbox"/> (Please open the SIP.)
HTTP Notification:	<input checked="" type="checkbox"/>
HTTP Notification URL:	URL 1
Enable:	<input checked="" type="checkbox"/>
Trigger Interval:	0 (0-900) s
URL:	<input type="text"/>
User Name:	<input type="text"/>
Password:	<input type="text"/>

Alarm Setting

Record Video Sections:	5 seconds
Snapshot:	3
Snapshot Interval:	1 second
External Output Action Time:	30 seconds
Audio Action Settings:	Edit
Play Audio Interval:	Auto

[Save](#)

Please refer to table 4-5-2 and 4-5-3 to get the meaning of items.

External Input

Enable External Input:	<input type="checkbox"/>
------------------------	--------------------------

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:	<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: Snapshot <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"/>
Snapshot:	3 <input type="button" value="v"/>
Snapshot Interval:	1 <input type="button" value="v"/> second <input type="button" value="v"/>
External Output Action Time:	30 seconds <input type="button" value="v"/>
Audio Action Settings:	<div>Edit</div>
Play Audio Interval:	Auto <input type="button" value="v"/>

Save

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

External Output

External Output

Normal Status:	<input type="radio"/> Open <input checked="" type="radio"/> Grounded
Current Status:	Grounded

Test

Save

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

Exception

Alarm Type	<div> <div>Network Disconnected</div> <div>IP Address Conflict</div> <div>Record Failed</div> <div>SD Card Full</div> <div>SD Card Uninitialized</div> <div>SD Card Error</div> <div>No SD Card</div> </div>
Enable Network Disconnected Alarm:	<input type="checkbox"/>
Alarm Action	
Save Into Storage:	<input type="checkbox"/> File Format: Record
External Output:	<input type="checkbox"/> (Please configure the External Output Action Time.)
Play Audio:	<input type="checkbox"/> (Please enable the Audio Speaker.)
Alarm Setting	
Record Video Sections:	5 seconds
Snapshot:	3
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 Disconnected, IP Address Conflicted, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error and No SD Card are available</p> <p>Check the checkbox to enable the alarm type you selected</p>
Alarm Action	<p>Save Into Storage: Save alarm recording files into SD Card</p> <p>Upload Via Email: Upload alarm recording files via email. This option is available for Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error and No 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>
Alarm Setting	<p>Record Video Sections: Six different periods are available(5, 10, 15, 20, 25, 30 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</p>

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:

- 1) Make sure to set up your email information in advance.

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:



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:

☒

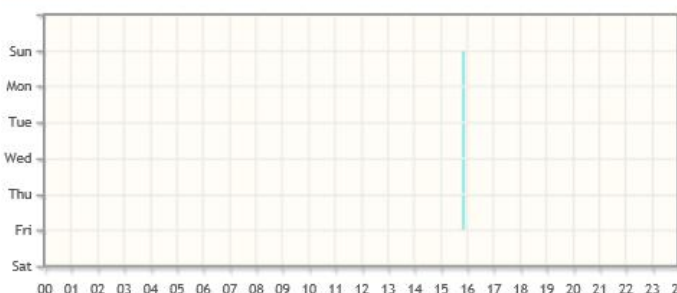
Pre-record:

0 second

▼

Save

Schedule Settings



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.

Pre-record	Reserve the record time before alarm, 0~10 sec
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 Timing 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:</p> <p>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

<input type="checkbox"/>	File Name	Start Time	End Time	Type	Size
Please mount storage device first!					

Showing 0 to 0 of 0 entries First Previous Next Last Go

File Search
Main Type:

Sub Type:

Start Time:

End Time:

Search Reset

4.5.3 Security

User

Manage Privilege

Allow Anonymous Viewing: ☐

Security Question

Security Question:

Account Management

ID	User Name	Privilege
1	admin	Administrator

Admin Password:

User Level:

User Name:

Password:

Confirm:

User Privilege

☒ All

☒ Live Video

☒ Local Settings

☒ Audio Settings

☒ Network Settings

☒ Date & Time

☒ Storage Settings

☒ Security Settings

☒ Logs

☒ Maintenance

☒ Playback

☒ Video Settings

☒ Image Settings

☒ RTSP Access

☒ Event Settings

☒ Storage Format

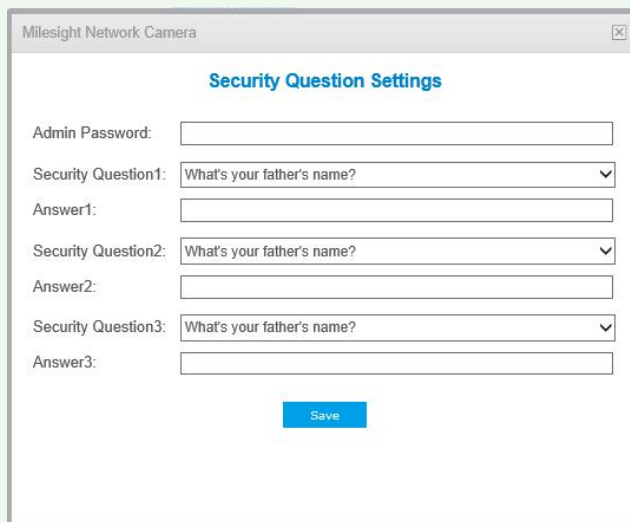
☒ SIP Settings

☒ System

Note: You can only add 20 users

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.

- What's your father's name?
- What's your favorite sport?
- What's your mother's name?
- What's your mobile number?
- What's your first pet's name?
- What's your favorite book?
- What's your favorite game?
- What's your favorite food?
- What's your lucky number?
- What's your favorite color?
- What's your best friend's name?
- Where did you go on your first trip?
- Customized Question

Account Management

Click “Add” button, it will display Account Management page. You can add an account to the camera by entering Admin Password, User Level, User Name, New Password, Confirm, and edit user privilege by clicking ☐. The added account will be displayed in the account list.

Admin Password: You can add an account only after you enter the correct admin password.

User Level: Set the privilege for the account.

User Name: Input user name for creating an account.

Password: Input password for the account.

Confirm: Confirm the password.

You can edit and delete the account in the account list under the admin account. For the default admin account, you can only change the password, and it cannot be deleted.

Note:

- 1) You can only add 20 users.
- 2) The operator privilege is all checked by default.
- 3) For camera firmware version 4X.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:
20

IP Access List

Rule:
Single

IP Address:

Add

Enable Access List Filtering:

☐

Filter Type:

☐ Allow ☒ Deny

Save

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 Number Limit, 1~20.
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:
6022

Save

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.

Watermark

Watermark Settings

Enable Watermark:

☒

Watermark String:

Save

Watermarking is an effective method to protect information security, realizing anti-counterfeiting traceability and copyright protection. Milesight Network Camera supports Watermark function to ensure information security.

About

Open Source Software Licenses

View Licenses

User can view some open source software licenses about the camera by clicking the View Licenses button.

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	Sever IP address
Server Port	Sever port
Connection Protocol	UDP/TCP
Video Stream	Choose the video stream
Max Call Duration	The max call duration when use SIP

Note: SIP supports Directly IP call.

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:	<input type="text" value="Phone Number"/>
Phone Number:	<input type="text"/>

Enable White List Number Filter:	<input type="checkbox"/>
----------------------------------	--------------------------

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, it can only visited by the designated phone number or IP address.

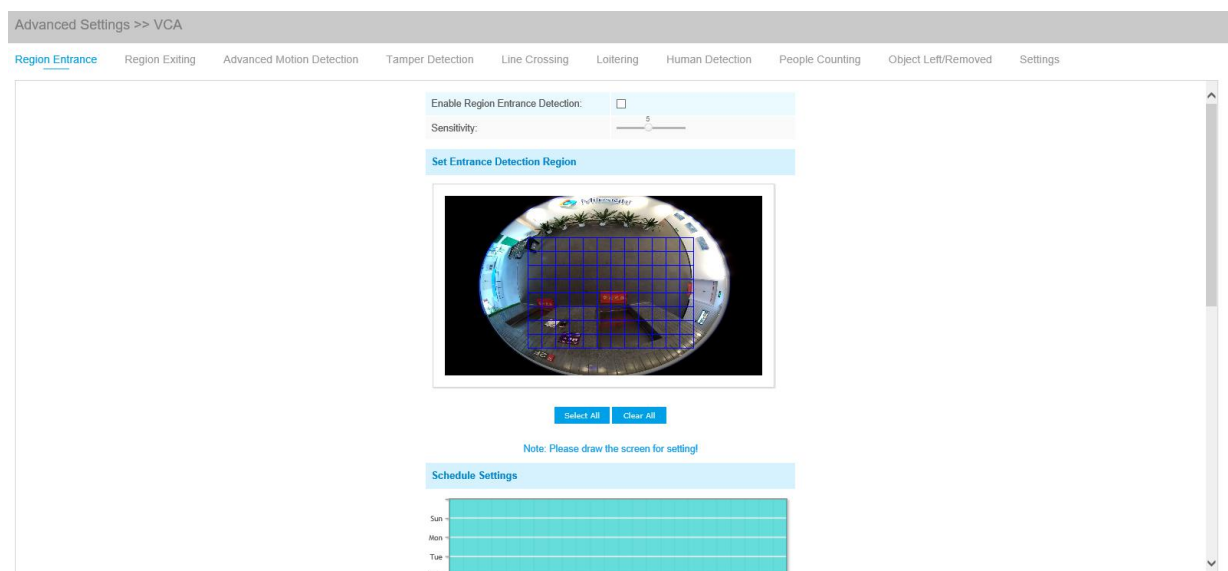
4.5.5 VCA

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 a comprehensive surveillance system and quicker response of cameras to different monitoring scenes.

Note: Smart Event of fisheye camera only supports in 10 mode of Bundle-Stream mode and 10, 103R, 101P3R mode of Multi-Channel mode

Region Entrance

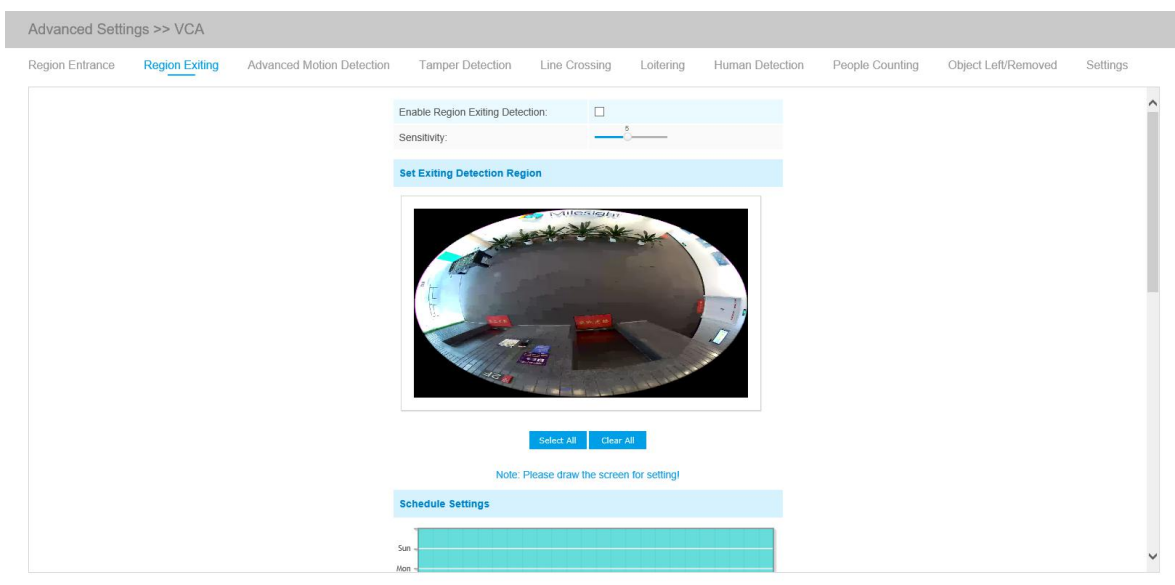
Region entrance helps to protect a special area from potential threat of suspicious person's or object's entrance. An alarm will be triggered when objects enter the selected regions by enabling region entrance.



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

Region Exiting

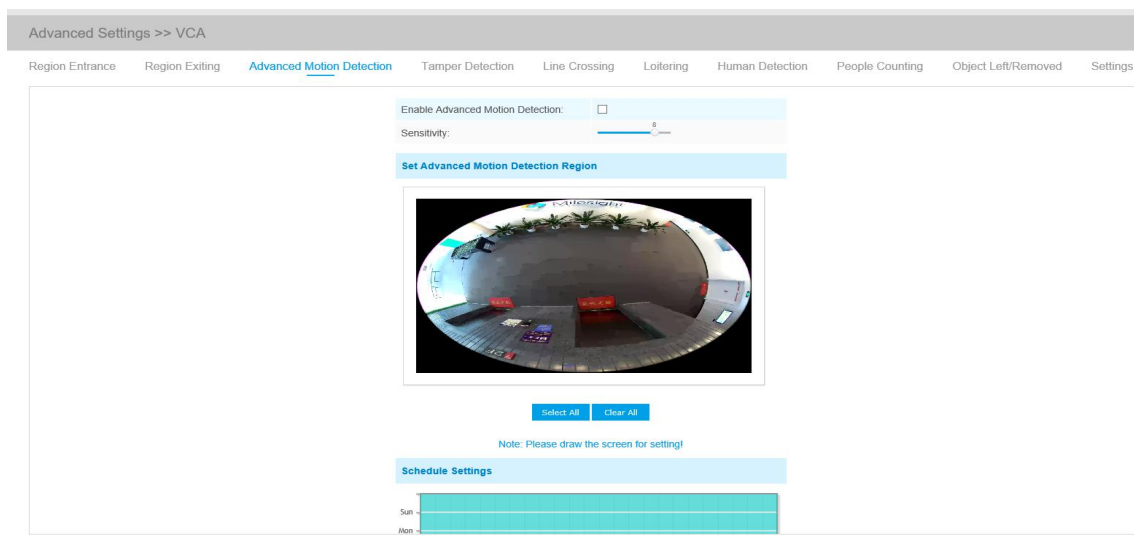
Region exiting is to make sure that any person or object won't exit the area that is being monitored. Any exit of people or objects will trigger an alarm.



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

The screenshot shows the 'Advanced Settings >> VCA' configuration page. The 'Tamper Detection' tab is selected. The interface includes the following sections:

- Enable Tamper Detection:** A checkbox that is currently unchecked.
- Sensitivity:** A slider control set to 0.
- Schedule Settings:** A grid showing detection schedules for each day of the week (Sun to Sat) across 24 hours (00 to 24). The grid is currently empty, indicating no schedule is set.
- Alarm Action:** A section with four rows, each with a checkbox and a dropdown menu:
 - Save Into Storage:** Checkbox is unchecked, dropdown is set to 'Record' (with a note: '(Please mount storage device)').
 - Upload Via FTP:** Checkbox is unchecked, dropdown is set to 'Record'.
 - Upload Via Email:** Checkbox is unchecked, dropdown is set to 'Snapshot'.
 - External Output:** Checkbox is unchecked, dropdown is set to '(Please configure the External Output Action Time.)'.

Step1: Set detecting sensitivity;

Step2: Set detection schedule;

Step3: Set alarm action;

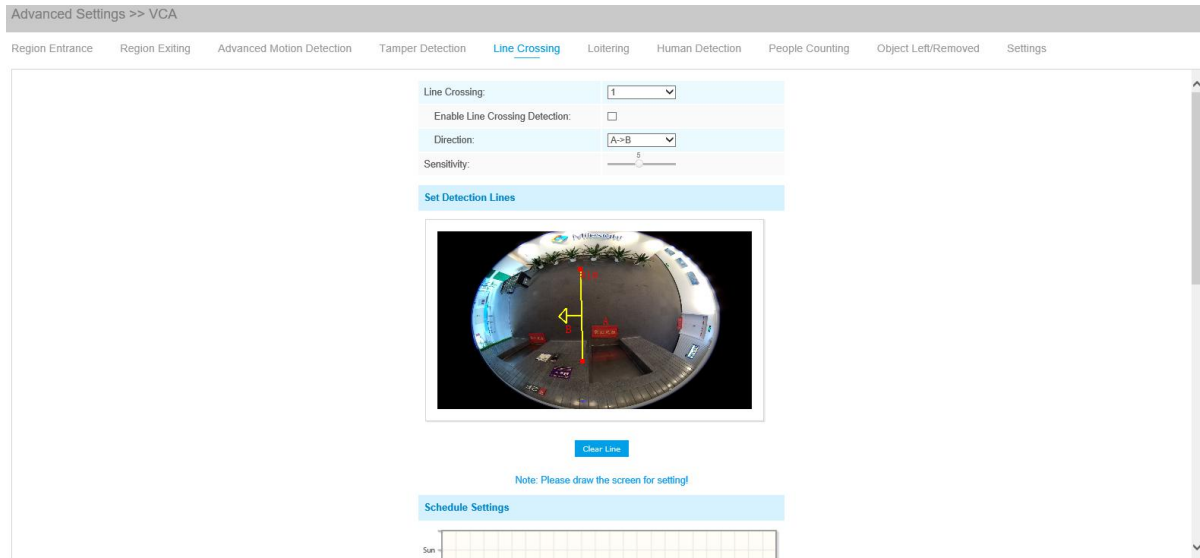
Step4: Set alarm settings.

Note:

The algorithm supports defocus detection in Tamper Detection function.

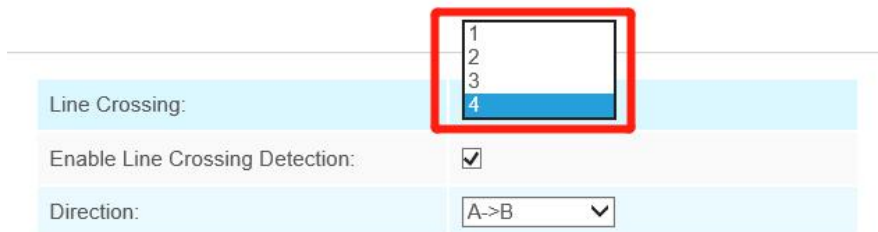
Line Crossing

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.

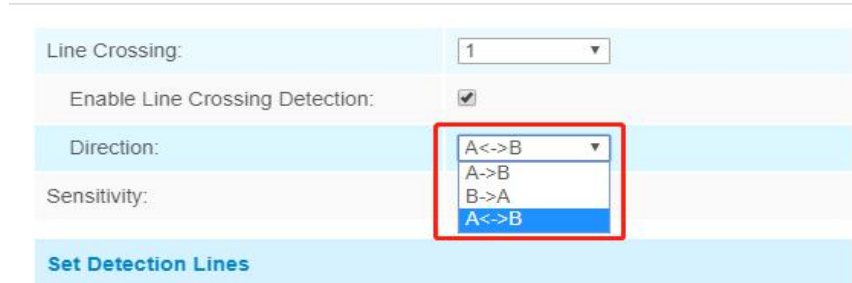


Settings steps are shown as follows:

Step1: Choose a line number;



Step2: Enable Line Crossing Detection and define its direction;



Step3: Set detecting sensitivity;

Step4: Draw detection lines;

Step5: Set detection schedule;

Step6: Set alarm action;

Step7: 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.


Advanced Settings >> VCA

Region Entrance Region Exiting Advanced Motion Detection Tamper Detection Line Crossing **Loitering** Human Detection People Counting Object Left/Removed Settings

Enable Loitering Detection: ☐

Min. Loitering Time: (3~1800) s

Set Loitering Detection Region



Select All Clear All

Note: Please draw the screen for setting!

Schedule Settings

Sun ☐

Mon ☐

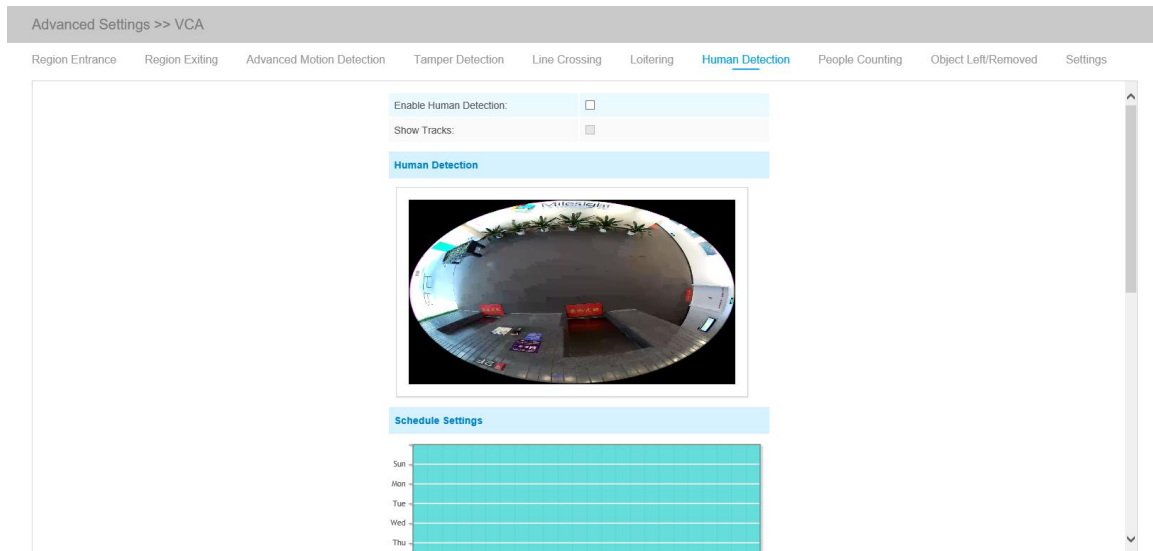
- Step1: Set minimum loitering time;
- Step2: Set loitering detection region;
- Step3: Set detection schedule;
- Step4: Set alarm action;
- Step5: Set alarm settings.

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.

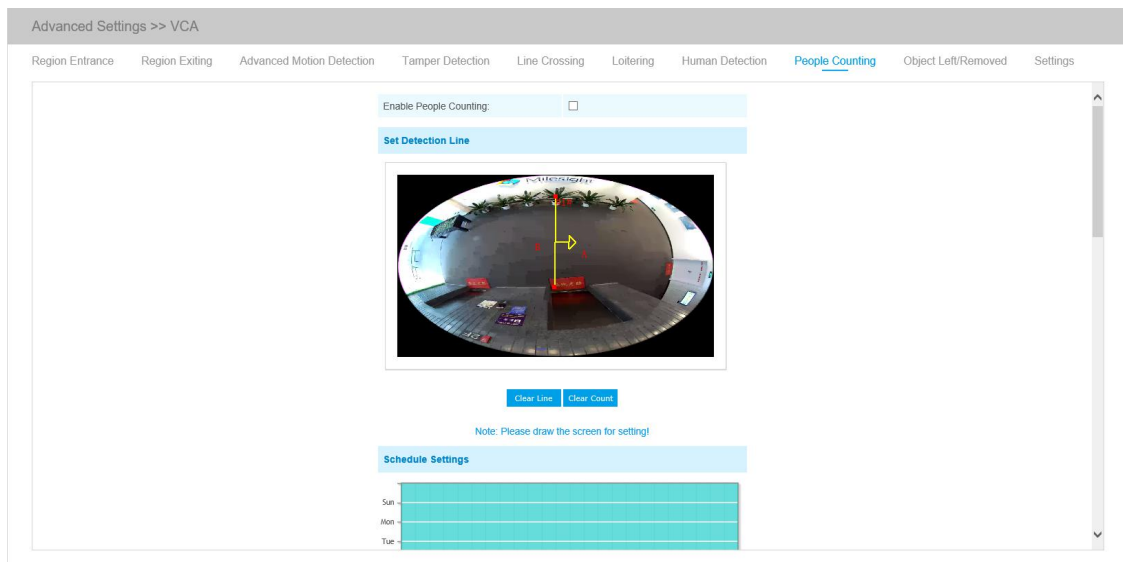
Human Detection

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: 9999 <input type="checkbox"/> Out: 9999 <input type="checkbox"/> Capacity: 9999 <input type="checkbox"/> Sum: 9999

Step7: Set alarm action;

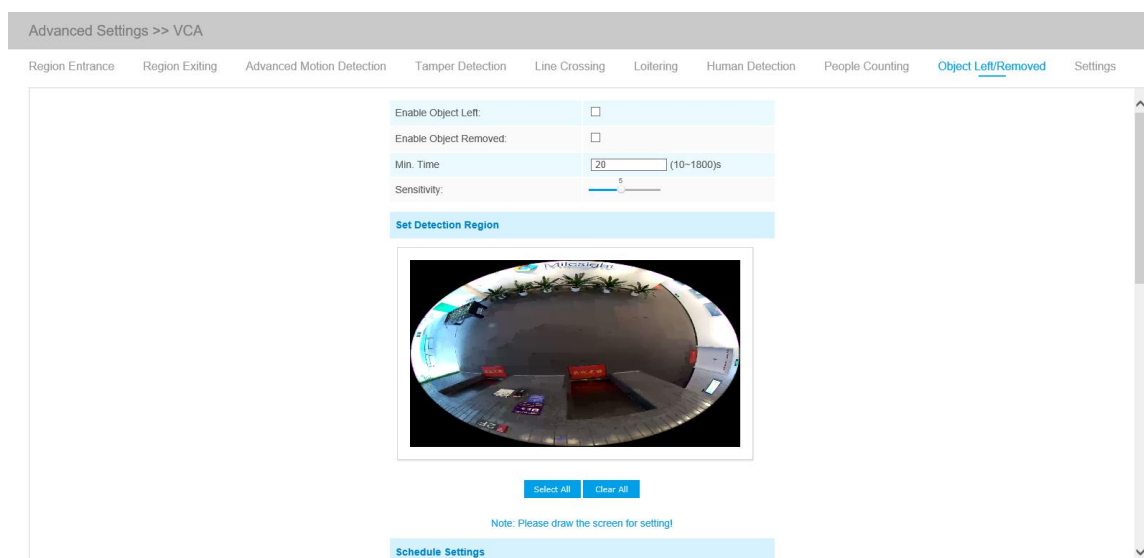
Step8: Set alarm settings.

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 detecting sensitivity;

Step4: Set detection region;

Step5: Set detection schedule;

Step6: Set alarm action;

Step7: 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.

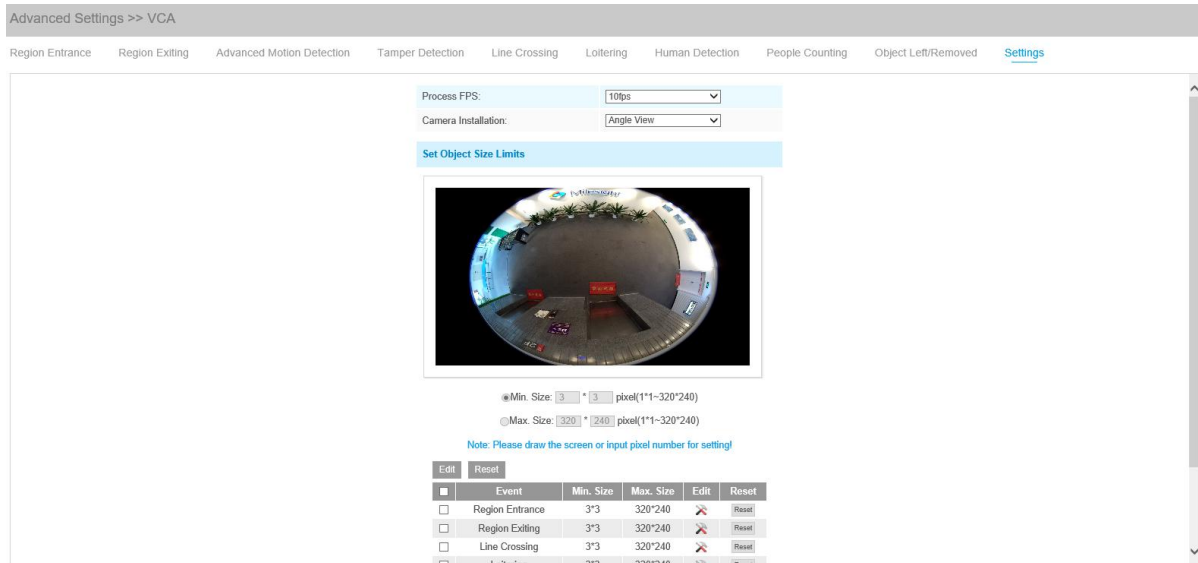
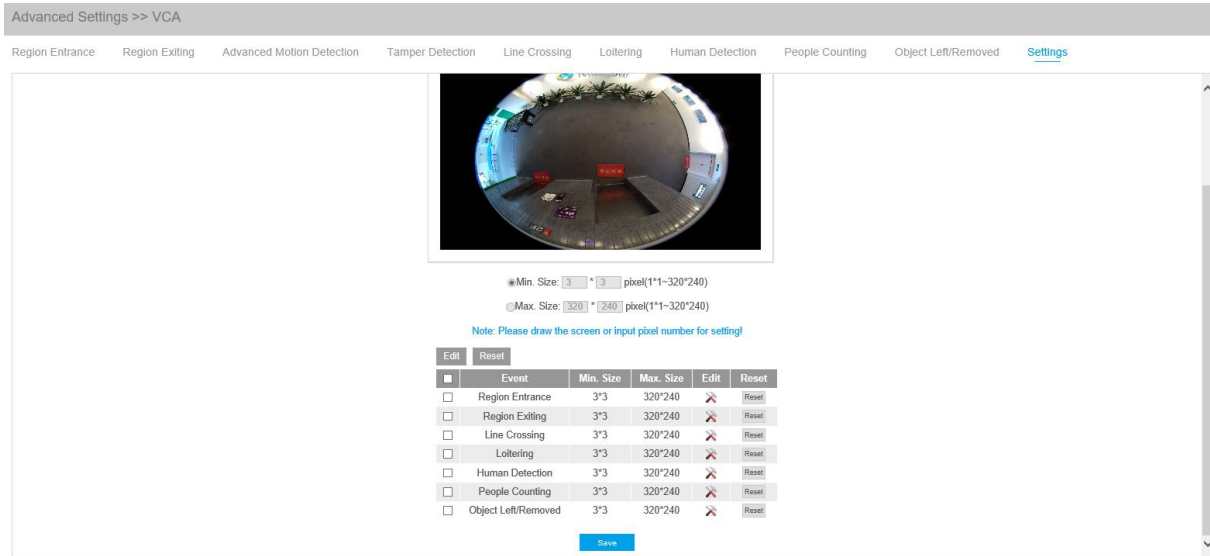


Table 4-5-15 Description of the buttons

Parameters	Function Introduction
Process FPS	Five different periods are available(5, 10, 15, 20, 25, fps) for process fps
Camera Installation	Select camera installation view, including Angle View , Horizontal View and Overhead View
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 3*3.
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.

Note:

VCA function supports setting the Min.Size and Max.Size of the detection object separately.



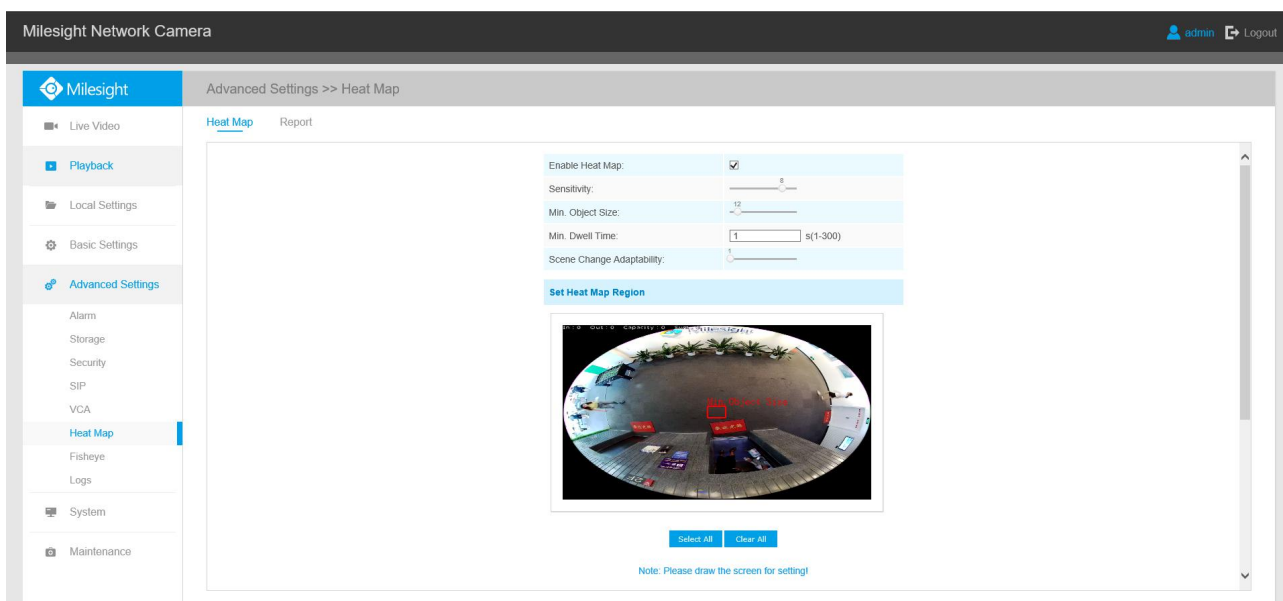
4.5.6 Heat Map

Heat Map function can analyze customers movement to reveal insights for better business management with the intuitive and accurate statistical analysis results in time or space pattern as needed.

Note:

- (1) Currently Heat Map is only supported in the original view of 360° Panoramic Fisheye Network Camera and the dewarping view of 180° Panoramic Mini Bullet Network Camera.
- (2) Please upgrade the camera to V43.7.0.72-r7 or above to use Heat Map function.
- (3) Only allowed to view reports within 7 days without a SD card or NAS.

Settings

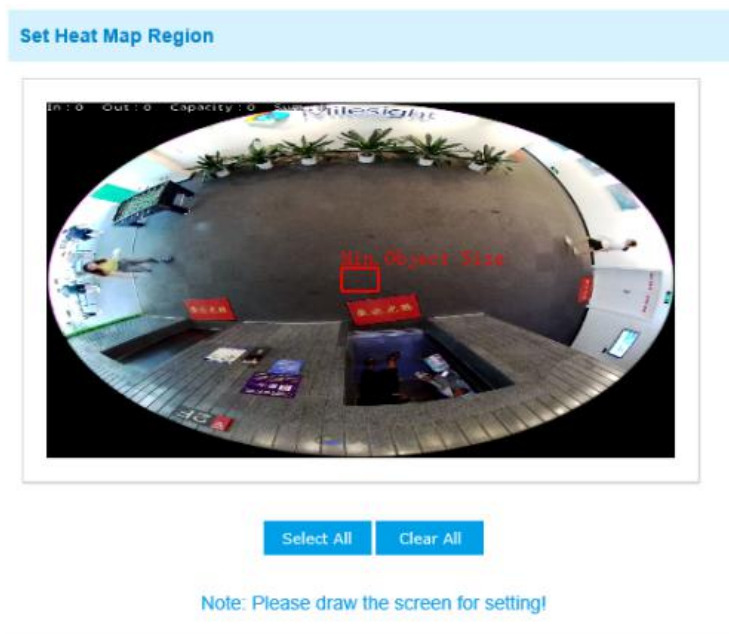


Step 1: After log in the web, go to “Advanced Settings”→ “Heat Map”. Check the checkbox “Enable Heat Map”, then set the Heat Map settings as shown below.

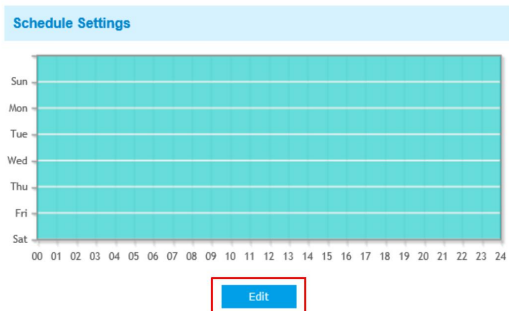
Table 4-5-16 Description of the buttons

Parameters	Function Introduction
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results.
Min. Object Size	Set the minimum object size from 1 to 100, the default value is 10. Objects smaller than this value will not be recorded in the result.
Min. Dwell Time	Set the minimum dwell time from 1 to 300, the default value is 30. If the object stays in the area longer than the set "Minimum Dwell Time", it will not be recorded in the result.
Scene Change Adaptability	Level 1~10 are available, the default level is 5. Scene Change Adaptability indicates the camera's adaptability to scene changes, which can increase the accuracy of detection. The camera better adapts to faster changing scenes if the value is higher.

Step 2: Set Heat Map Region. Draw the screen to set the detection area. You can click **"Select All"** button to select all areas, or **"Clear All"** button to remove the current drawn area.



Step 3: Schedule Settings. You can draw the schedule by clicking **"Edit"** button. And then click **"Save"** or **"Reset"** after finishing setting.



Milesight Network Camera

Time Schedule

	Period1	Period2	Period3	
<input checked="" type="checkbox"/> Sunday	00 00 24 00	00 00 00 00	00 00 00 00	Copy to Other Days
<input checked="" type="checkbox"/> Monday	00 00 24 00	00 00 00 00	00 00 00 00	Copy to Other Days
<input checked="" type="checkbox"/> Tuesday	00 00 24 00	00 00 00 00	00 00 00 00	Copy to Other Days
<input checked="" type="checkbox"/> Wednesday	00 00 24 00	00 00 00 00	00 00 00 00	Copy to Other Days
<input checked="" type="checkbox"/> Thursday	00 00 24 00	00 00 00 00	00 00 00 00	Copy to Other Days
<input checked="" type="checkbox"/> Friday	00 00 24 00	00 00 00 00	00 00 00 00	Copy to Other Days
<input checked="" type="checkbox"/> Saturday	00 00 24 00	00 00 00 00	00 00 00 00	Copy to Other Days

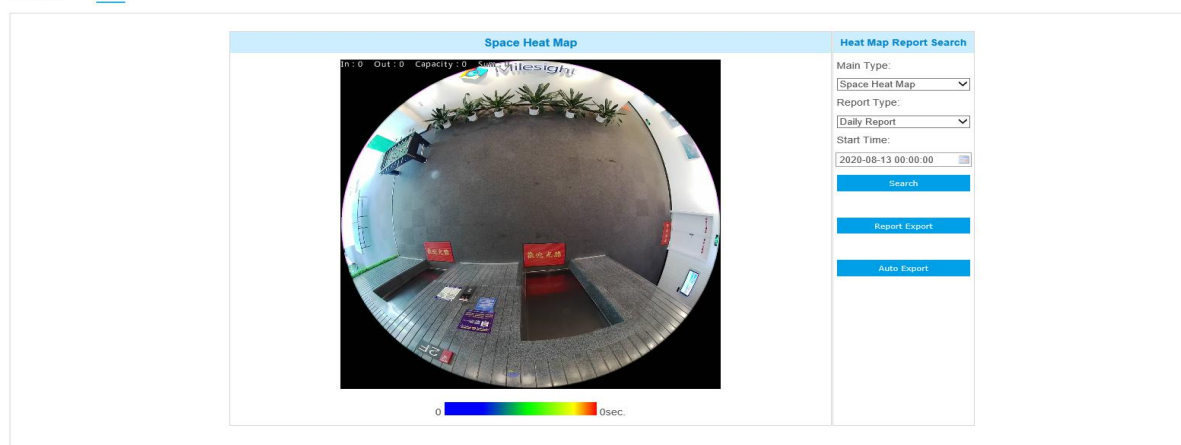
Save Reset

Report

The results will be displayed on “Report” interface.

Advanced Settings >> Heat Map

Heat Map [Report](#)



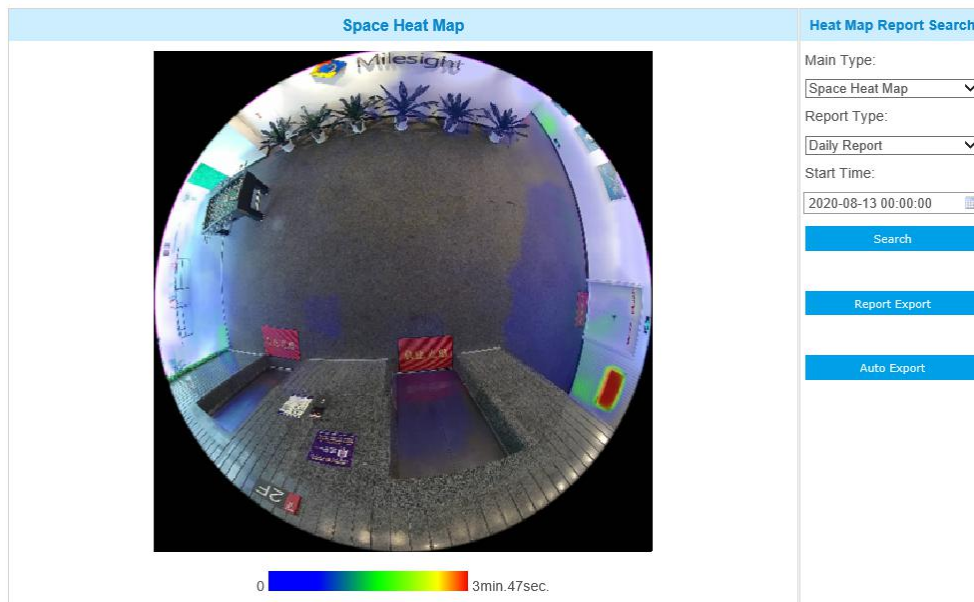
Step 1: Select Main Heat Map Type.

[Space Heat Map]: Space Heat Map will be presented as a picture with different color. Different colors represent different heat values. Red represents the highest and blue represents the lowest.

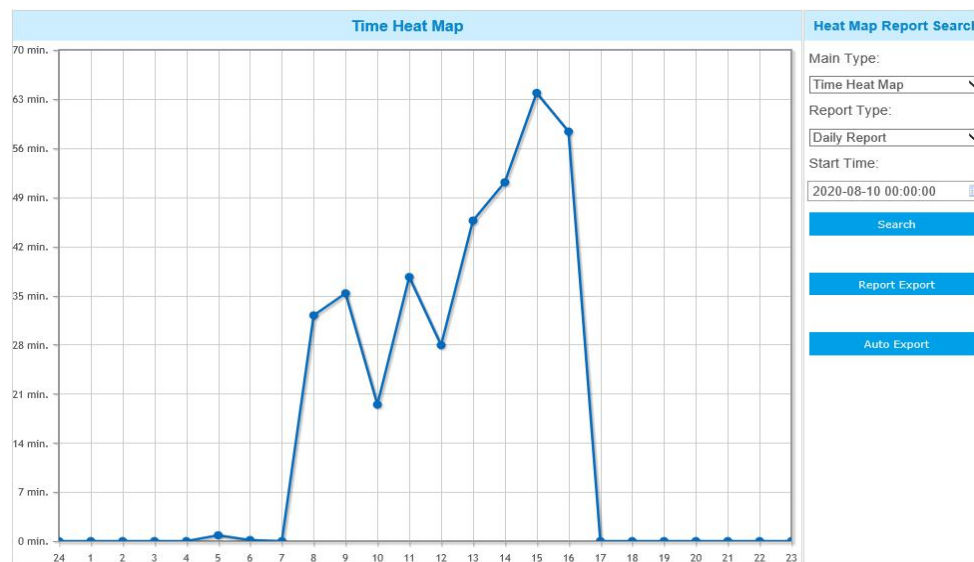
[Time Heat Map]: Time heat map will be presented as a line chart to show the heat at different times.

Step 2: Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report.

Step 3: Select Start Time, then click the “Search” button, the camera will automatically count the data for the day/ week/ month/ year (based on the report type selected by the user) from the start time and generate the corresponding report as shown below.



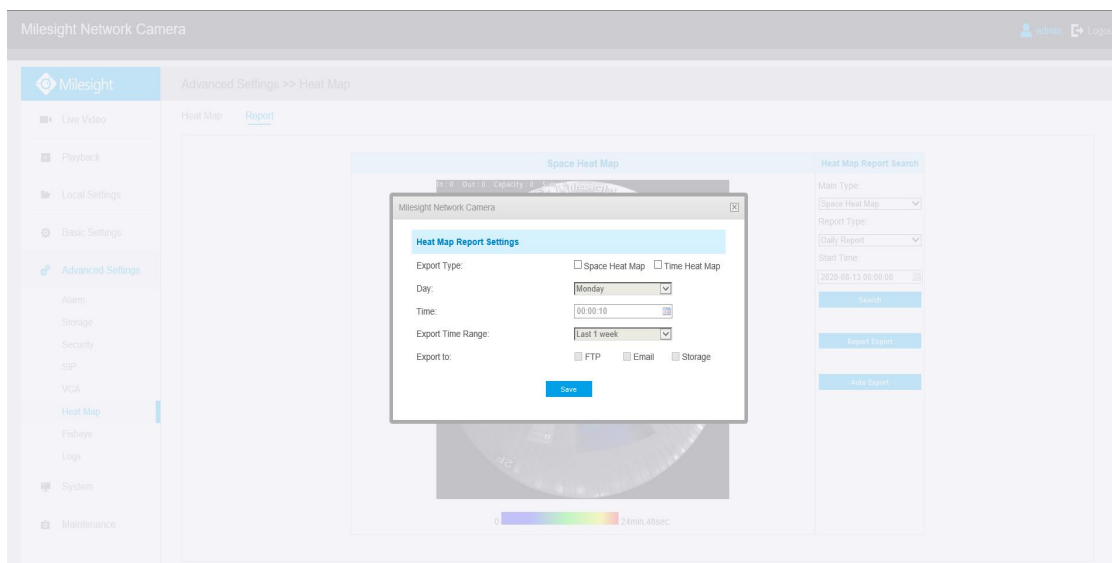
Space Heat Map



Time Heat Map

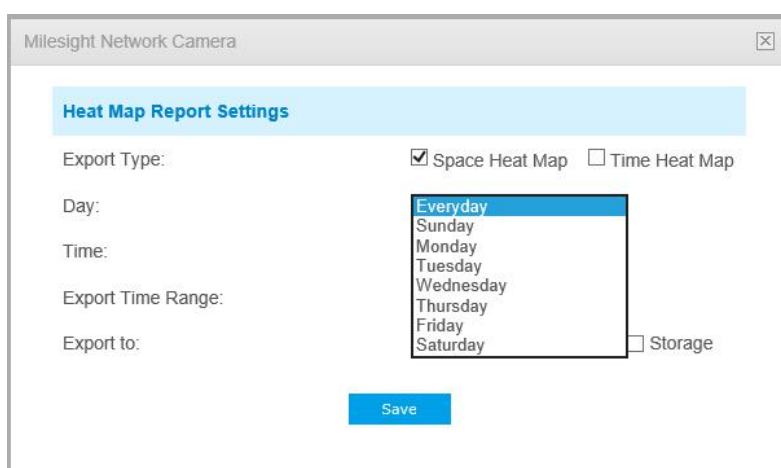
Step 4: Click the **"Report Export"** button to export the report to local.

Step 5: Click the **"Auto Export"** button to pop up the Heat Map Report Settings as shown below.

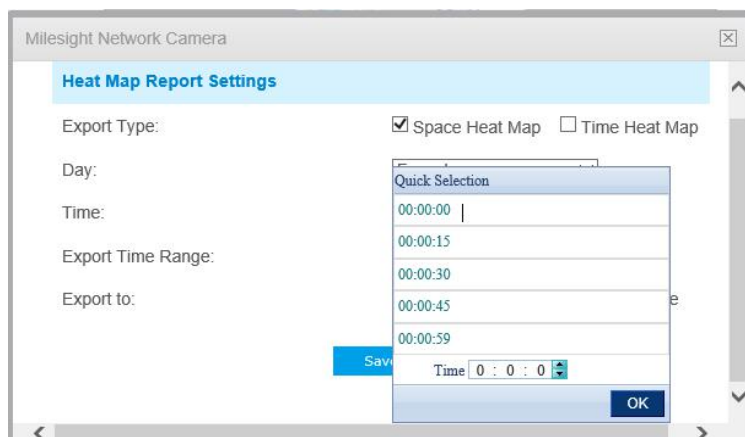


① Set Export Type. User can check Space Heat Map or Time Heat Map or both. When either Space Heat Map or Time Heat Map is checked, the gray item becomes editable as shown below;

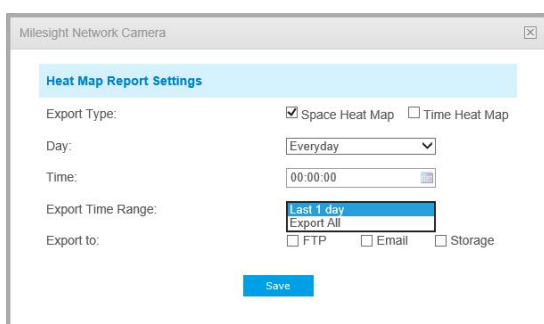
② Set Day. User can choose Everyday to export daily reports, while choosing others to export reports on a specific day of the week;



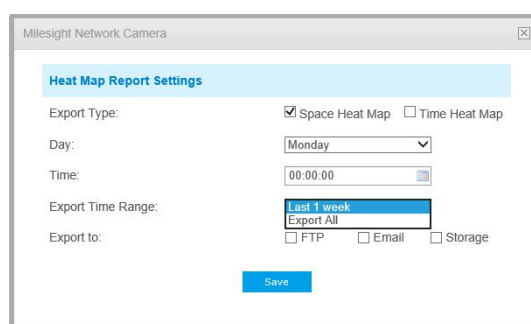
③ Set Time. User can choose the time of day to export the heat map automatically, click the calendar icon to pop up the following Quick Selection;



④ Set Export Time Range.

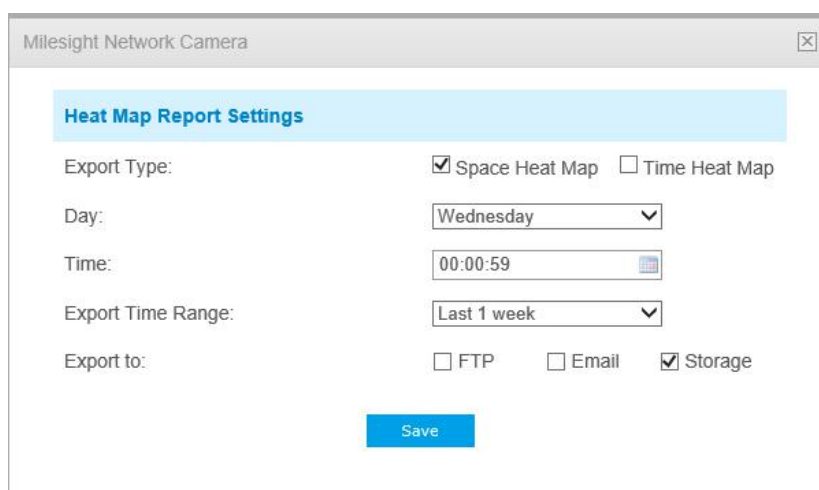


Day (Choose Everyday)



Day (Choose Week)

⑤ Set the destination path of the automatically exported report. The report can be exported to FTP/Email/Storage automatically as the form of an Excel spreadsheet or a picture according to the day, time and export time range you set. Then click “Save”.



If the current Space Heat Map is generated, it will be saved as a png image. If the current Time Heat Map is generated, it will be saved as a csv form.

4.5.7 Fisheye

PTZ

PTZ OSD

Zoom Status:	5 seconds ▼
Preset Status:	5 seconds ▼
Patrol Status:	Always Open ▼
Auto Scan Status:	Always Open ▼

Save

Table 4-5-17 Description of the buttons

Parameters	Function Introduction
Zoom Status	Support to set display time of Zoom Status OSD. 2 seconds/5 seconds/10 seconds/Always Open/Always Close are available.
Preset Status	Support to set display time of Preset Status OSD. 2 seconds/5 seconds/10 seconds/Always Open/Always Close are available.
Patrol Status	Support to set display time of Patrol Status OSD. Always Open/Always Close are available.
Auto Scan Status	Support to set display time of Auto Scan Status OSD. Always Open/Always Close are available.

General

Dewarping Configuration

Field of View:	Normal ▼
Transfer Mode:	Multi-Channel Mode ▼ ⓘ

Save

Table 4-5-18 Description of the buttons

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

Field of View	<p>Support optional Field of View on fisheye camera.</p> <p>Normal: With this option enabled, all views will maintain the original viewing angle.</p> <p>Original View Larger: With this option enabled, the original view(10) will have a larger viewing angle, and the other views will maintain the original viewing angle.</p> <p>All View Larger: With this option enabled, all views will have a larger viewing angle.</p>
Transfer Mode	<p>Support to choose Bundle-Stream Mode or Multi-Channel Mode to meet different needs.</p> <p>Bundle-Stream Mode: the Bundle-Stream Mode combines all the channels into one and sends to NVR or VMS, which is easy for compatibility.</p> <p>Multi-Channel Mode: the Multi-Channel Mode sends all the original channels to NVR or VMS, so the channels can be modified separately.</p>

Note:

We recommend Bundle-Stream mode with Milesight NVR.

4.5.8 Logs

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

Show

30

 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.
Motion Detection						

Showing 1 to 30 of 1,221 entries

First

Previous

1

2

3

4

5

...

41

Next

Last

Go

Log Search

Main Type:

All Types

Sub Type:

All Types

Start Time:

2017-09-04 00:00:00

End Time:

2017-09-04 13:30:26

Search

Log Export

Save Period:

Permanent

Save


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 .

Sub Type	On the premise that 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:	<input type="text" value="Network Camera"/>
Product Model:	MS-C9674-PB
Hardware Version:	V1.0
Software Version:	43.7.0.74
MAC Address:	1C:C3:16:22:0D:8D
Device Information:	SJ001EQ370N2
Alarm Input:	1
Alarm Output:	1
Uptime:	7 days 9 hours 55 minutes
QR Code:	<div><p>Please scan this QR code on App to get a remote view.</p></div>

Save

Table 4-6-1 Description of the parameters

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

4.7 Maintenance

4.7.1 System Maintenance

System Upgrade	
Software Version:	43.7.0.74
Local Upgrade:	<input type="text"/> Browse... <input type="button" value="Upgrade"/> <input type="checkbox"/> Reset after Upgrading
Online Upgrade:	<input type="button" value="Check"/>

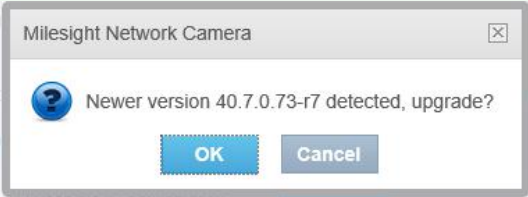
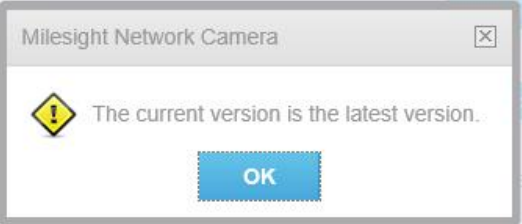
Note: Do not disconnect the power of the device during the upgrade.

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>Local Upgrade: Click the "Browse" button and select the upgrading file, then click the "Upgrade" button to upgrade. After the system reboots successfully, the update is done.</p> <p>You can check "Reset after Upgrading" to reset the camera after upgrading it.</p> <p>Online Upgrade: Click the "Check" button to check the current latest firmware version on our website, and then click "OK" to upgrade to this version.</p>

	 <p>It will prompt "The current version is the latest version" if your camera is already the latest version.</p>  <p>Note: Do not disconnect the power of the device during the update. The device will be restarted to complete the upgrading.</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	<p>Click "Reboot" button to restart the device immediately</p>

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.

Technical Support Mailbox: support@milesight.com

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

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

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