



Fisheye Network Camera User Manual

V1.06

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 | 12MP |
| Fisheye Network Camera | 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.

Table of Contents

| | |
|---|----|
| Chapter I Product Description..... | 1 |
| 1.1 Product Overview..... | 1 |
| 1.2 Key Features..... | 1 |
| 1.3 Hardware Overview..... | 2 |
| 1.4 System Requirements..... | 3 |
| Chapter II Network Connection..... | 4 |
| 2.1 Setting the Camera over the LAN..... | 4 |
| 2.1.1 Connect the Camera to the PC Directly..... | 4 |
| 2.1.2 Connect via a Switch or a Router..... | 4 |
| 2.2 Dynamic IP Connection..... | 4 |
| Chapter III Accessing the Network Camera..... | 6 |
| 3.1 Assigning An IP Address..... | 6 |
| 3.1.1 Assigning An IP Address Using Smart Tools..... | 6 |
| 3.1.2 Assign An IP Address via Browser..... | 9 |
| 3.2 Accessing from the Web Browser..... | 11 |
| 3.3 Accessing from Milesight VMS (Video Management Software)..... | 15 |
| Chapter IV System Operation Guide..... | 16 |
| 4.1 Live Video..... | 16 |
| 4.1.1 Operations on Live View Page..... | 17 |
| 4.1.2 Set / Call a preset / Patrol..... | 20 |
| 4.2 Playback..... | 23 |
| 4.3 Local Settings..... | 25 |
| 4.4 Basic Settings..... | 25 |
| 4.4.1 Video..... | 25 |
| 4.4.2 Image..... | 27 |
| 4.4.3 Audio..... | 35 |
| 4.4.4 Network..... | 37 |
| 4.4.5 Date&Time..... | 46 |
| 4.5 Advanced Settings..... | 47 |
| 4.5.1 Alarm..... | 47 |
| 4.5.2 Storage..... | 54 |
| 4.5.3 Security..... | 58 |
| 4.5.4 SIP..... | 60 |
| 4.5.5 Fisheye..... | 63 |
| 4.5.6 Logs..... | 64 |
| 4.6 System..... | 65 |
| 4.7 Maintenance..... | 65 |
| 4.7.1 System Maintenance..... | 67 |
| 4.7.2 Auto Reboot..... | 67 |
| Chapter V Services..... | 69 |

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+
- ✧ 1/1.7" Progressive Scan CMOS
- ✧ Up to 25fps@4000×3000
- ✧ 7 display modes to meet various needs
- ✧ Built-in Microphone and Audio out
- ✧ Equipped with Alarm In and Alarm Out
- ✧ IK09-rated vandal-proof metal cover, and high vandal resistant enclosure
- ✧ 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 S & G
- ✧ ICR filter with auto switch, true day/night
- ✧ Built-in WEB server, support IE/ Firefox/ Chrome/ Safari browser
- ✧ UPnP protocol for the easy management of 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

Fisheye Network Camera

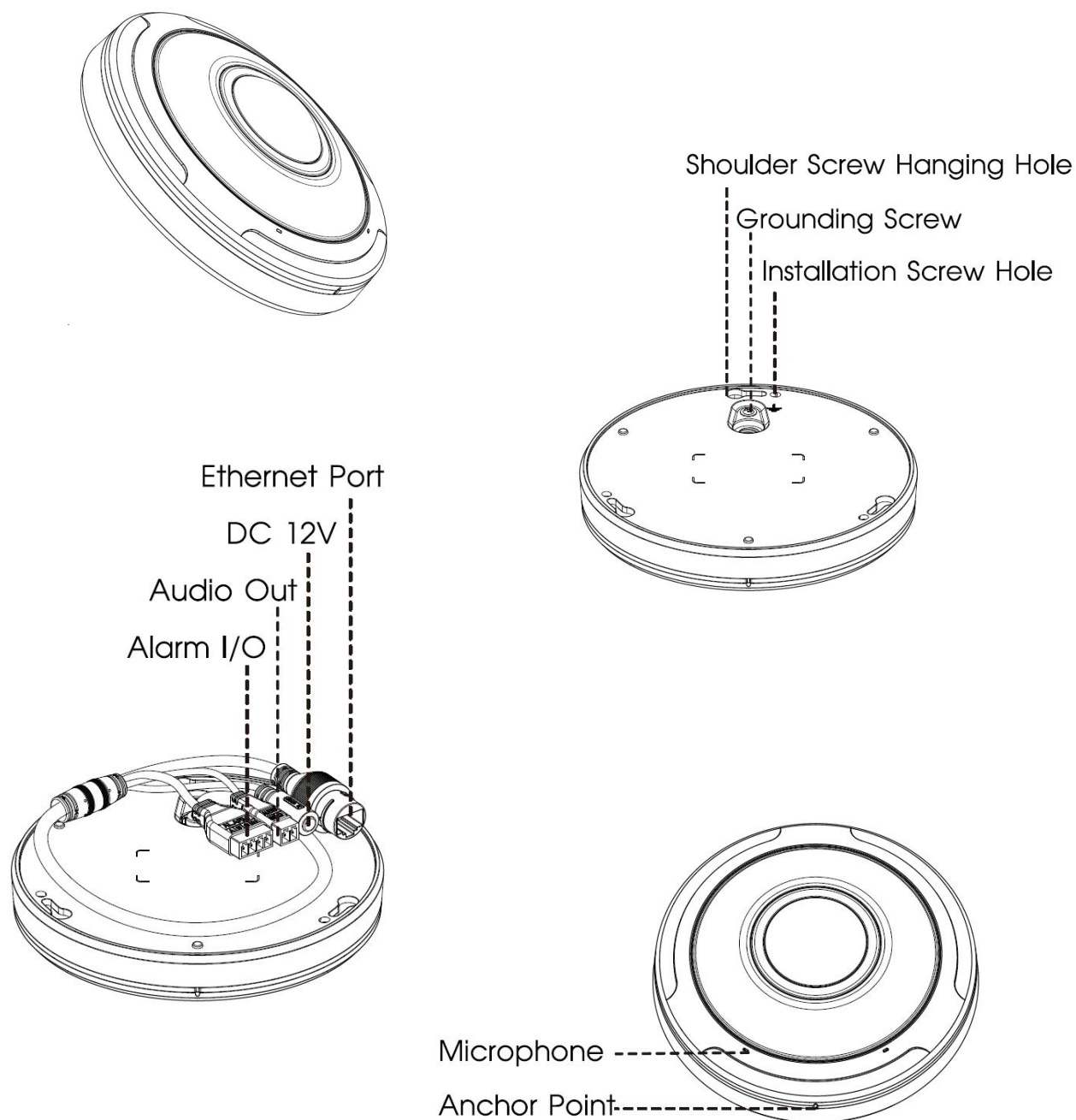


Figure 1-3-1 Fisheye Network Camera

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 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.

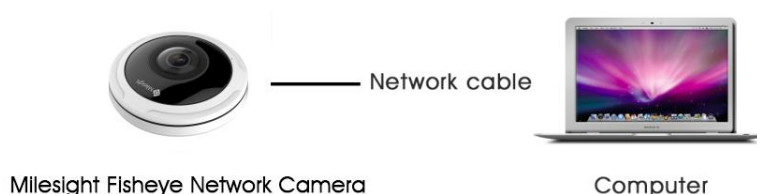


Figure 2-1-1 Connect the camera to the PC directly

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.

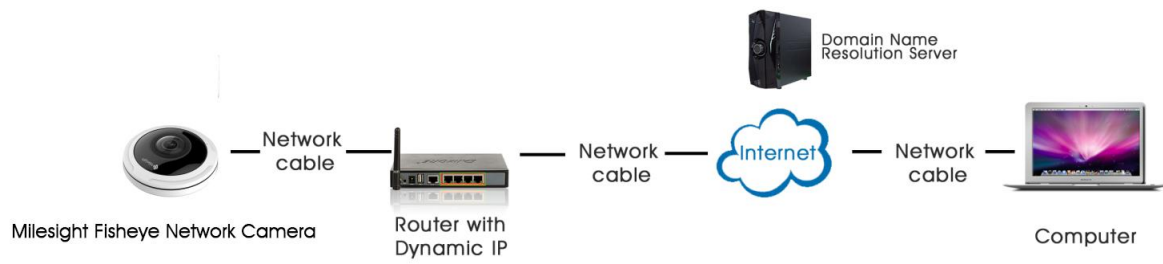


Figure 2-2 Connect the network camera via a router using dynamic IP

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. The default user name is “admin”, and password is “ms1234”.

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

3.1.1 Assigning An IP Address Using Smart Tools

Smart Tools is a software tool which can automatically detect multiple online Milesight network cameras 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, 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;

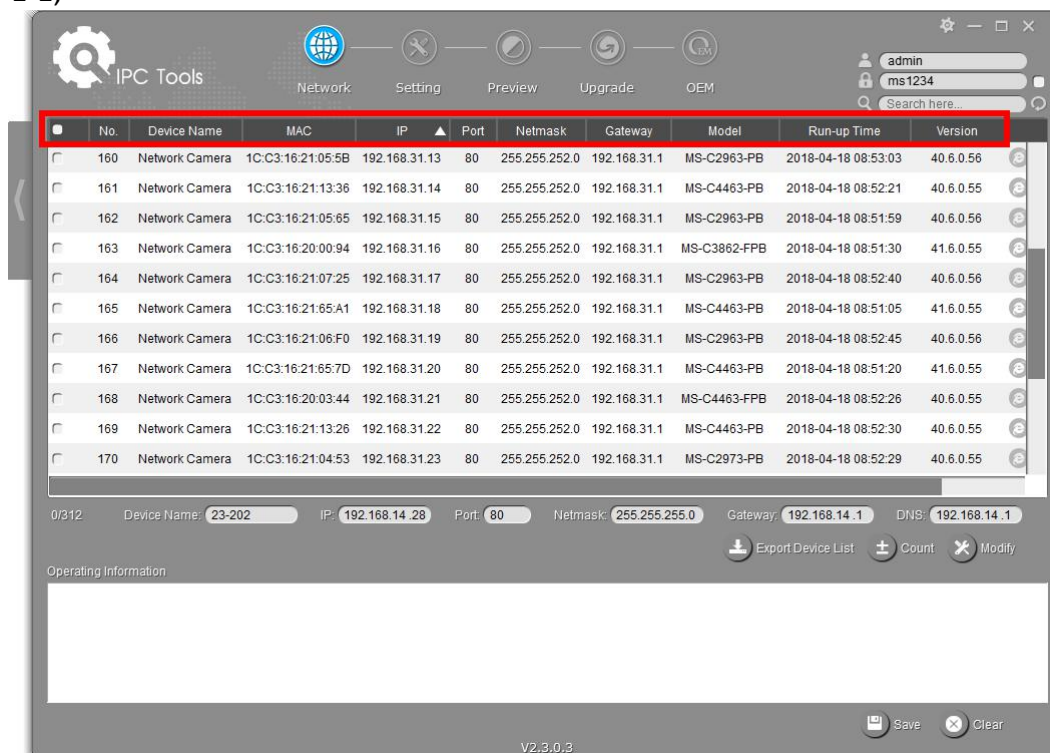


Figure 3-1-1 Smart Tools

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

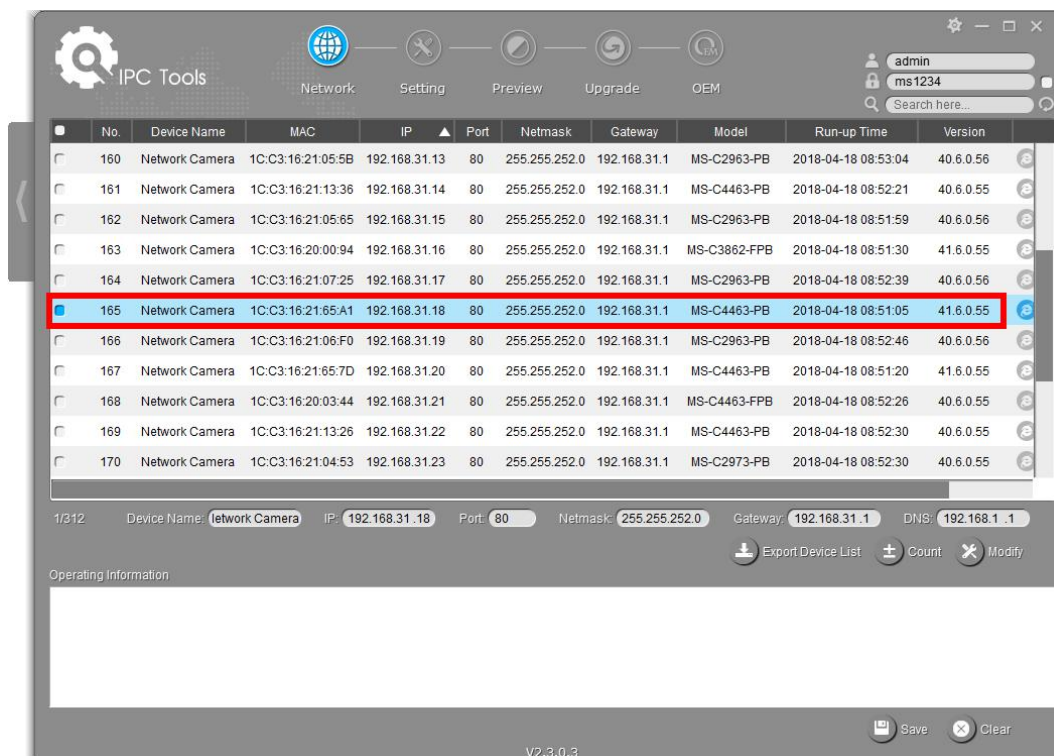


Figure 3-1-2 Select single camera

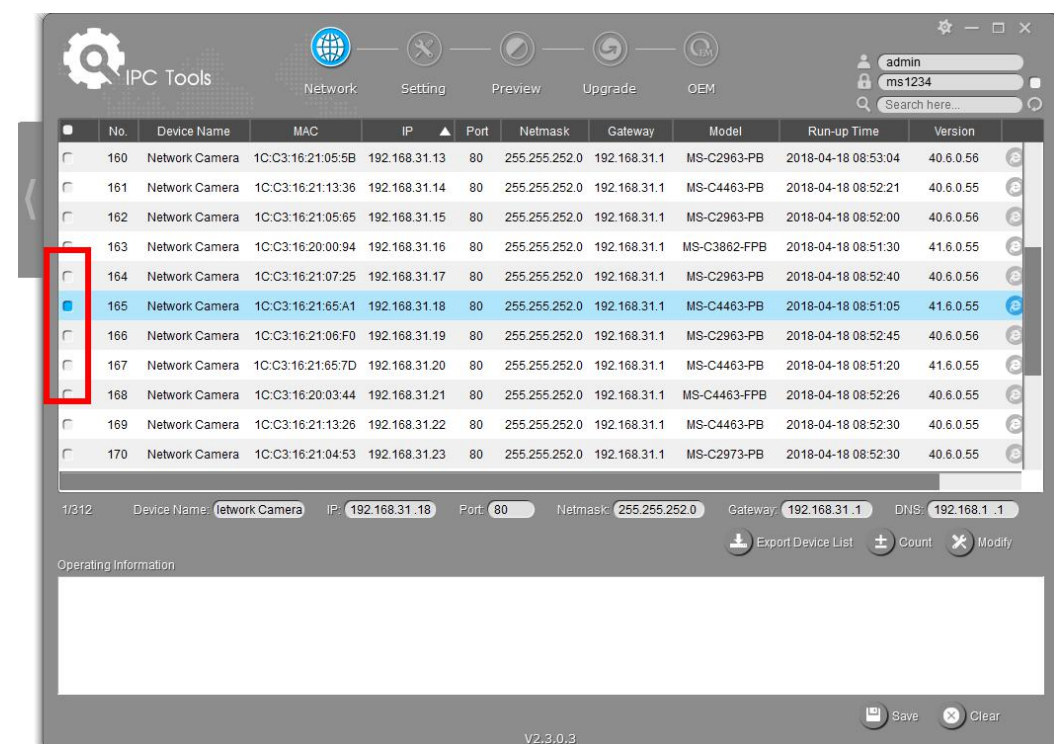


Figure 3-1-3 Select multiple cameras

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

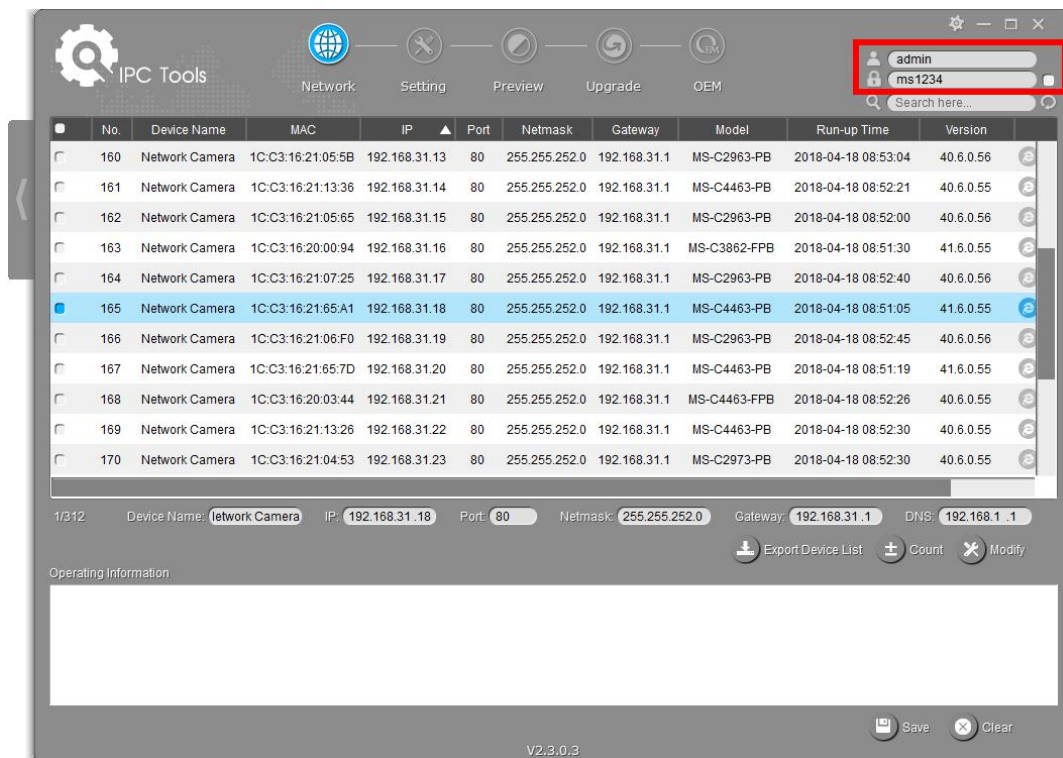


Figure 3-1-4 Type the User Name and Password

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

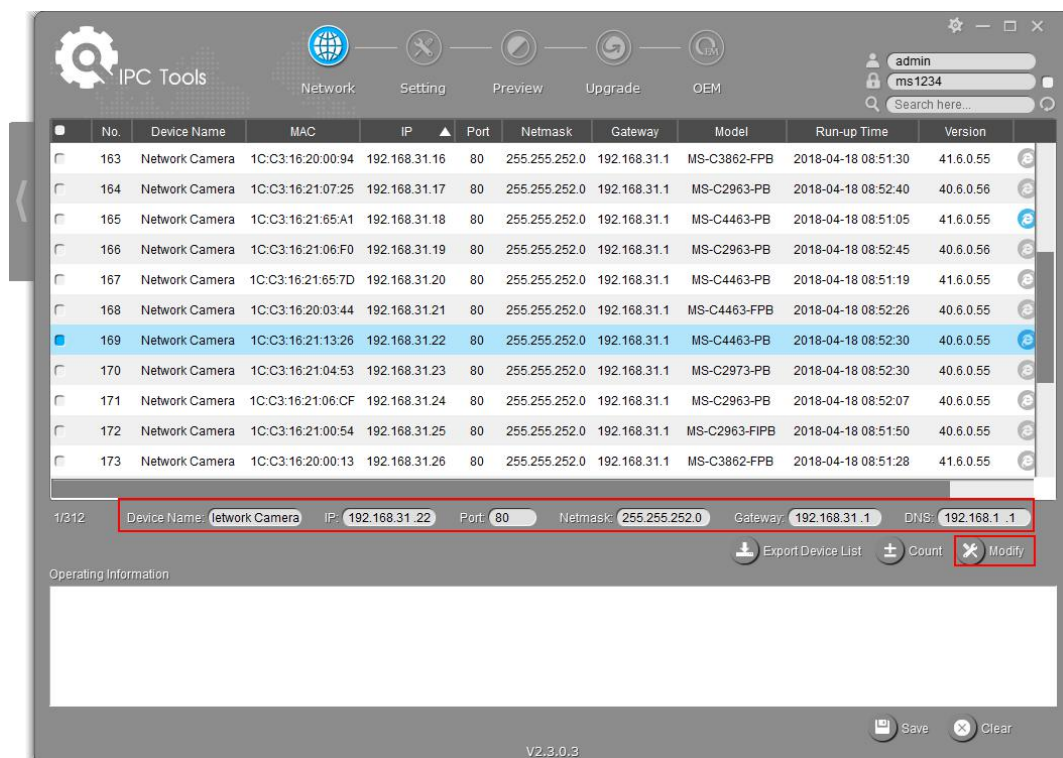


Figure 3-1-5 Modify

Step6: Change the IP address successfully;

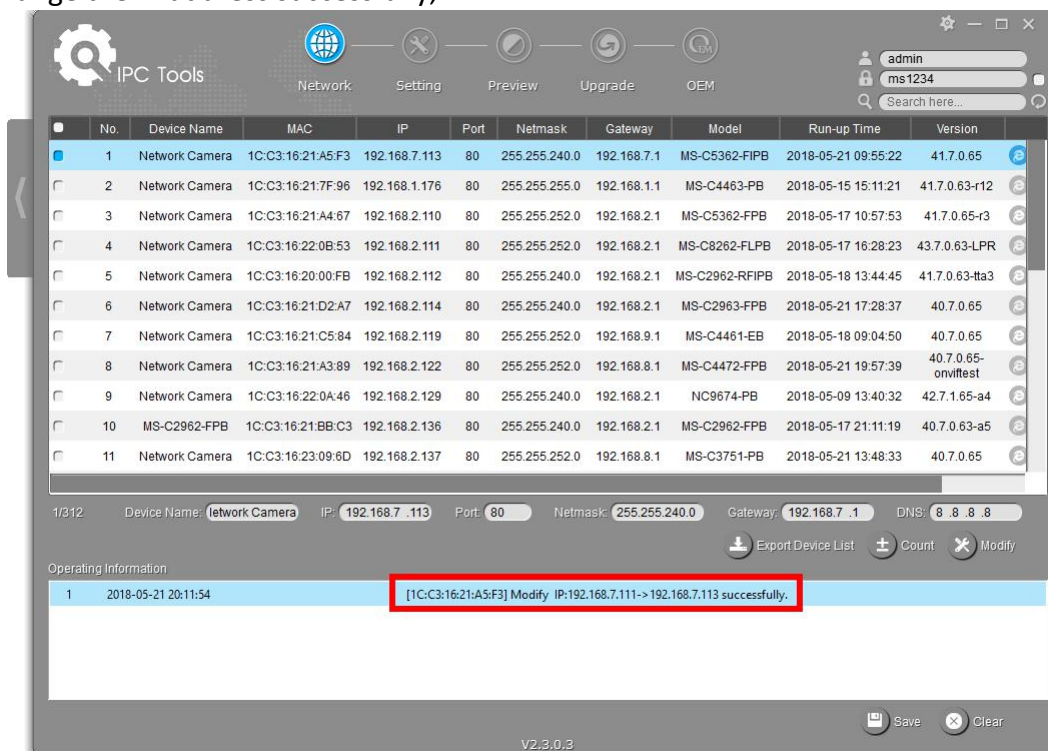


Figure 3-1-6 Change IP address successfully

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

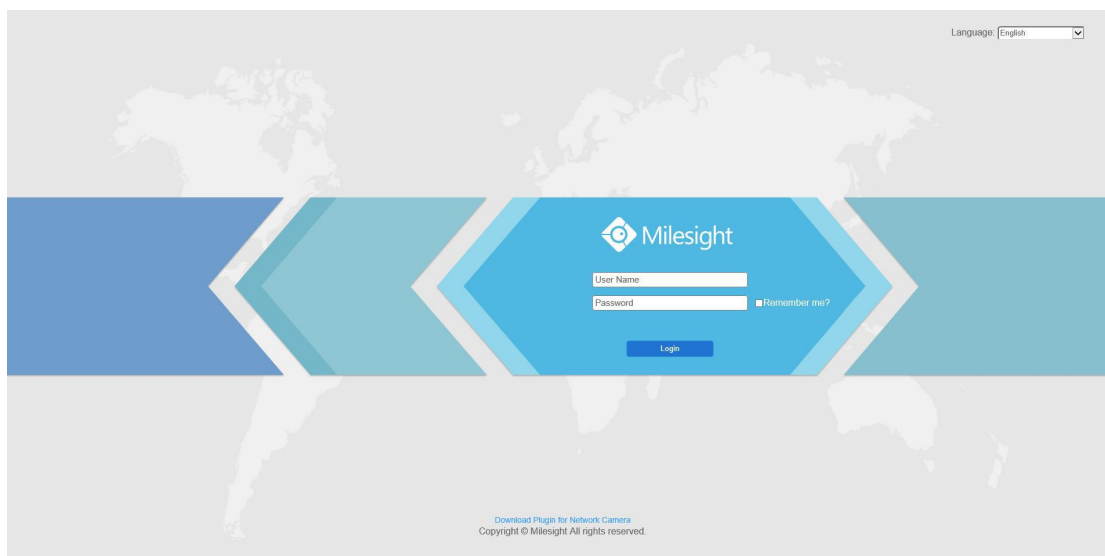


Figure 3-1-7 Login interface

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

3.1.2 Assign An IP Address via Browser

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

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

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

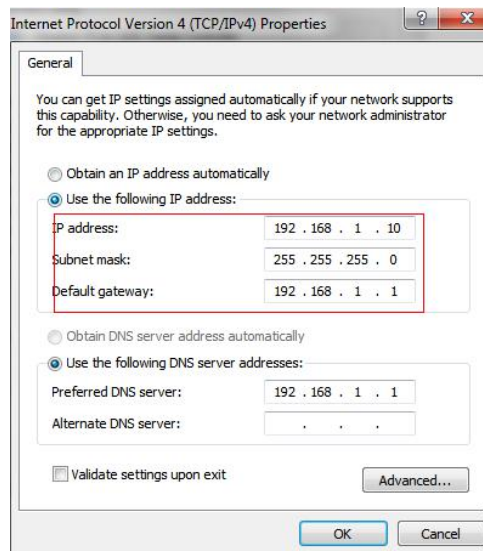


Figure 3-1-8 Setting Network Segment IP Address of Computer

- b. Click “Advanced”, and then click “IP settings” → “IP address” → “Add” (See Figure 3-1-9). In the pop-up window, enter an IP address that in the same segment with Milesight network camera (e.g. 192.168.5.61, but please note that this IP address shall not conflict with the IP address on the existing network);

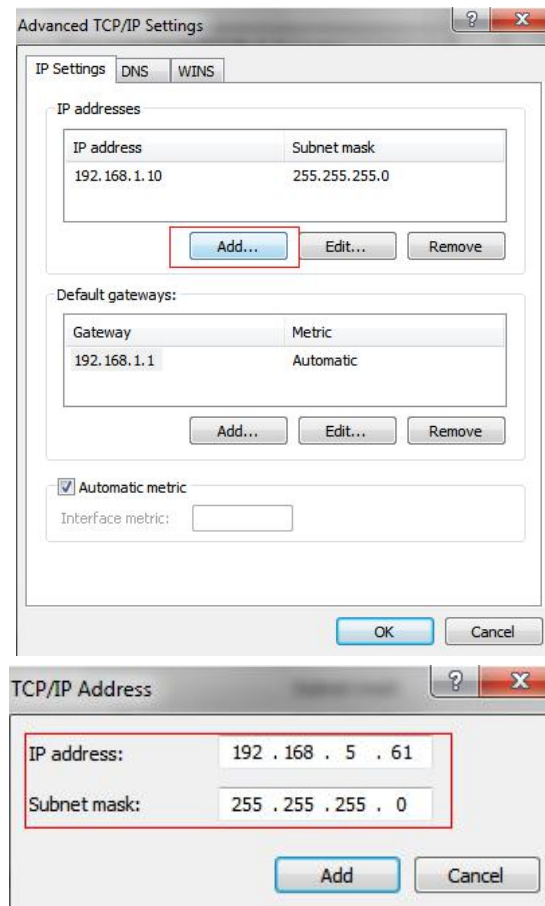


Figure 3-1-9 Setting IP Address of Computer

Step2: Start the browser. In the address bar, enter the default IP address of the camera:

http://192.168.5.190;

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

Default user name: **admin**

Default password: **ms1234**

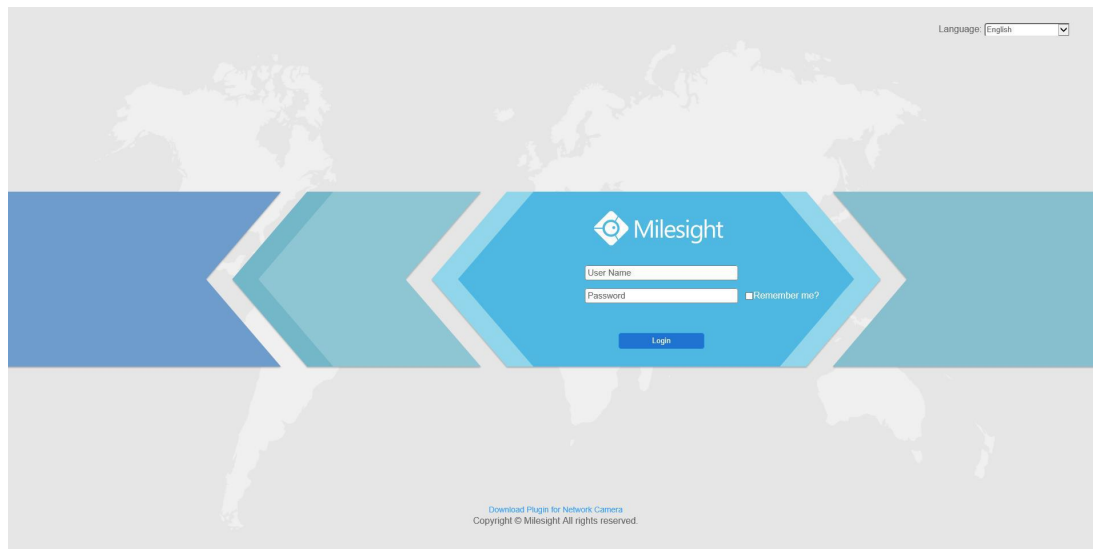


Figure 3-1-10 Login

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

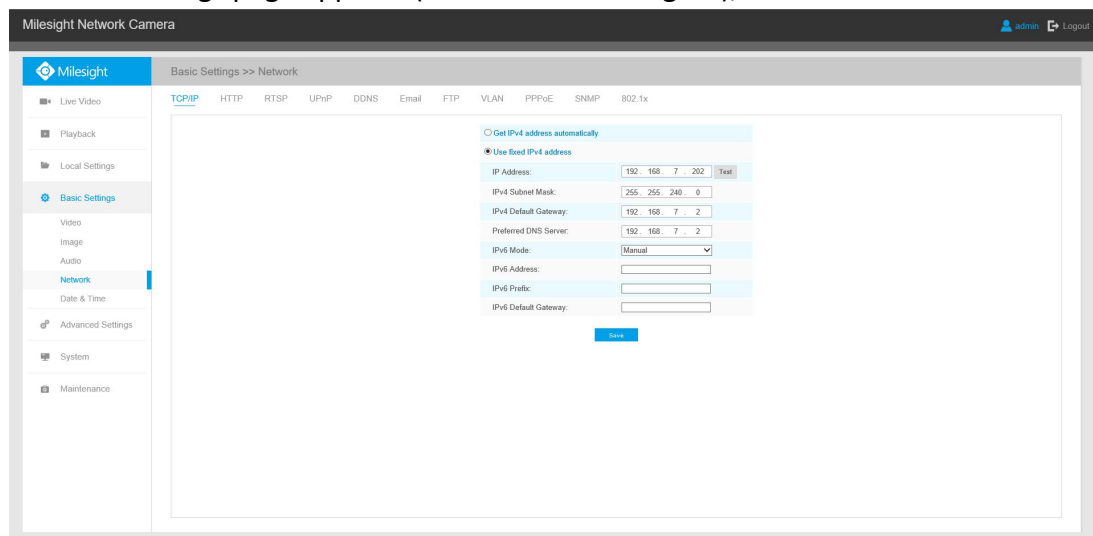


Figure 3-1-11 IP Address of Camera

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

Step6: The change of default IP address is completed.

3.2 Accessing from the Web Browser

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

Access over IE Browser

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

Step1: Launch the IE browser and enter the IP address of the camera;

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

(The default user name is “admin”, password is “ms1234”)

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




Figure 3-2-1 To download and install controls

Note:

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

Step4: Follow the prompts to install the Controls, when it's finished, it will pop out a window as Figure 3-2-2. Please click “Finish” and refresh the browser, then you will see the video.

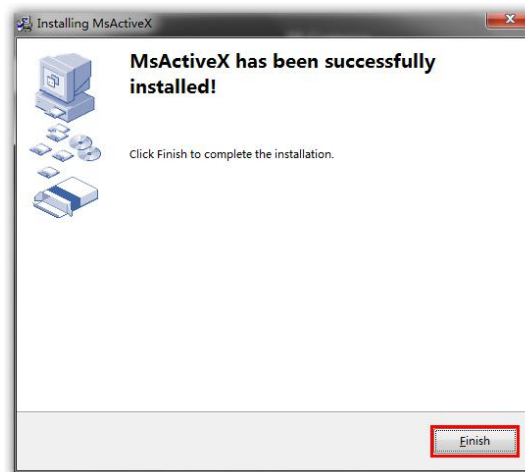


Figure 3-2-2 Finish installation

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

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

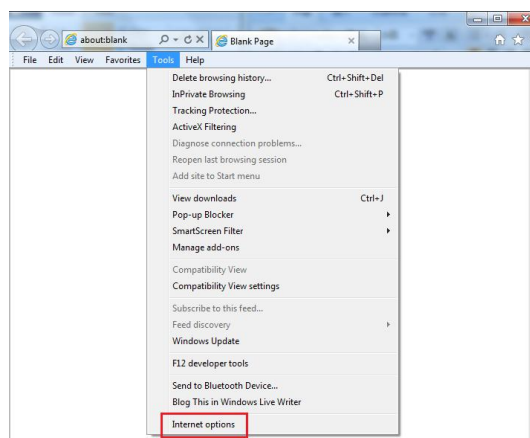


Figure 3-2-3 To add the permission

Step2: Select “Security” to “Trusted”;

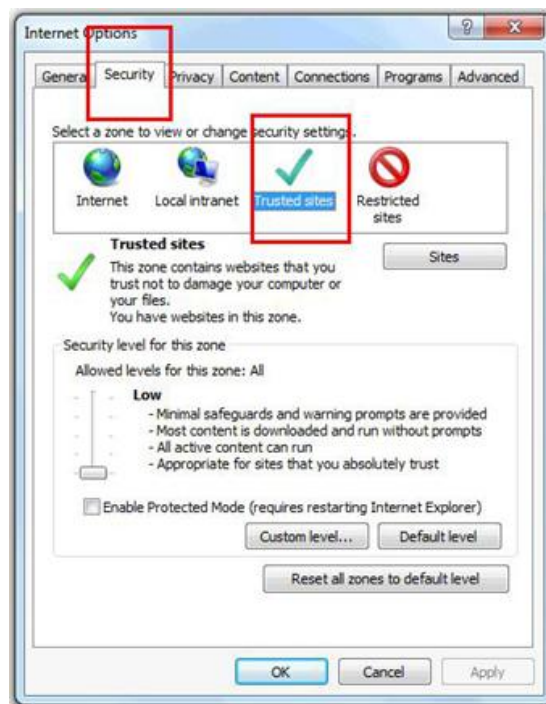


Figure 3-2-4 To trust the control

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

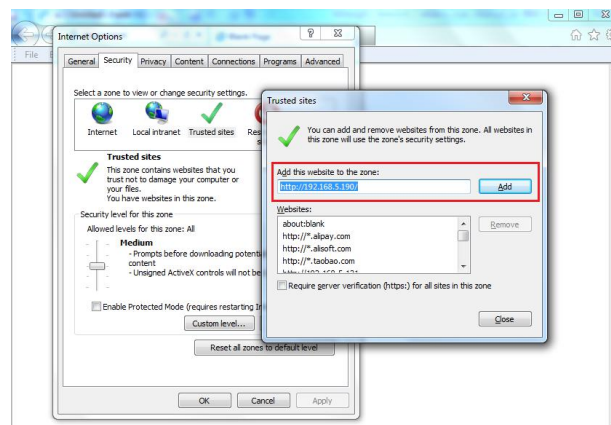


Figure 3-2-5 Add the website to the zone

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

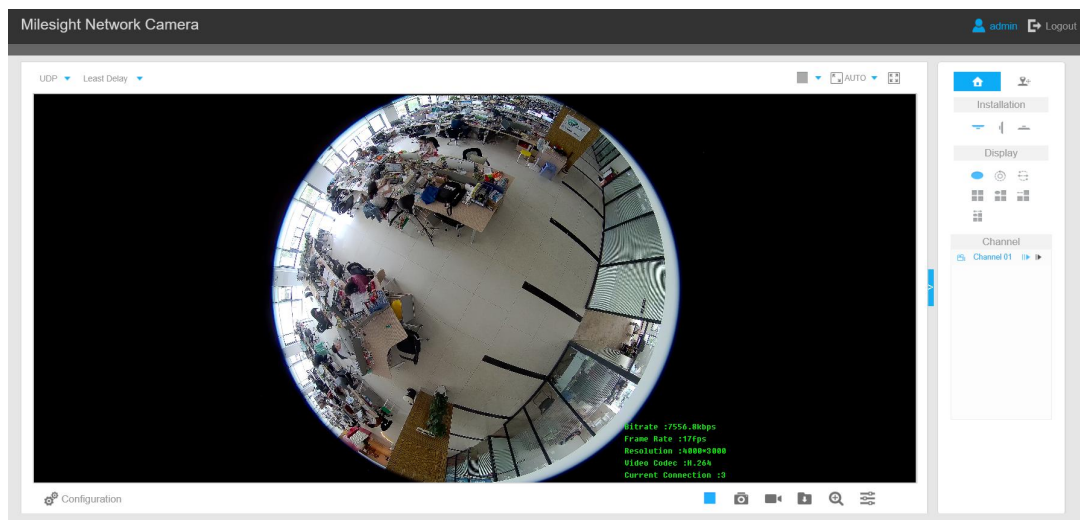


Figure 3-2-6 Live View Interface (Multi-Channel Mode)

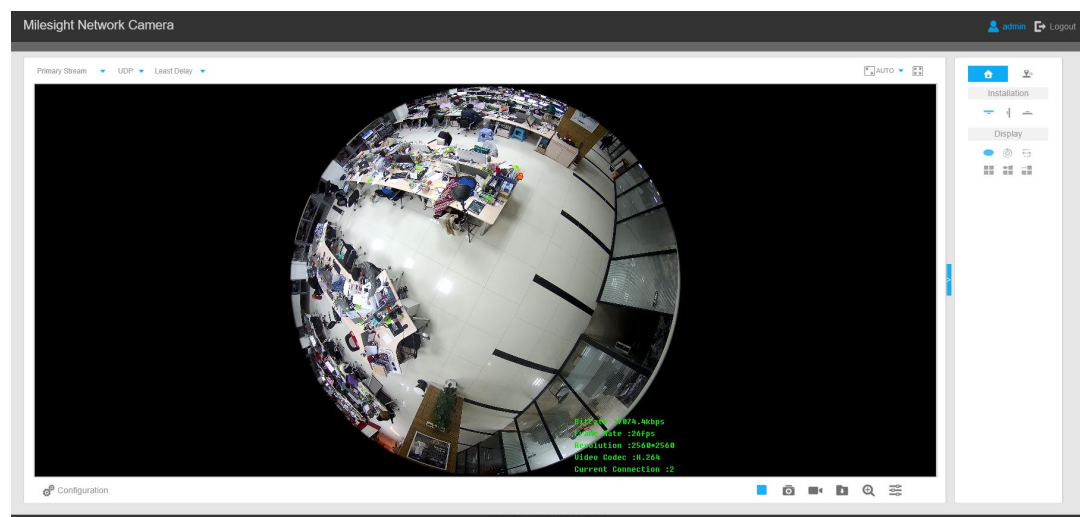


Figure 3-2-7 Live View Interface (Bundle-Stream Mode)

3.3 Accessing from Milesight VMS (Video Management Software)

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

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

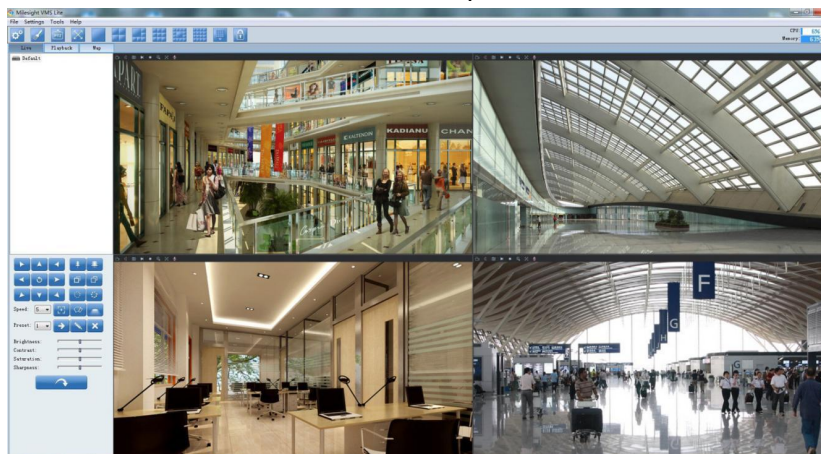


Figure 3-3-1 Milesight VMS Live View

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.

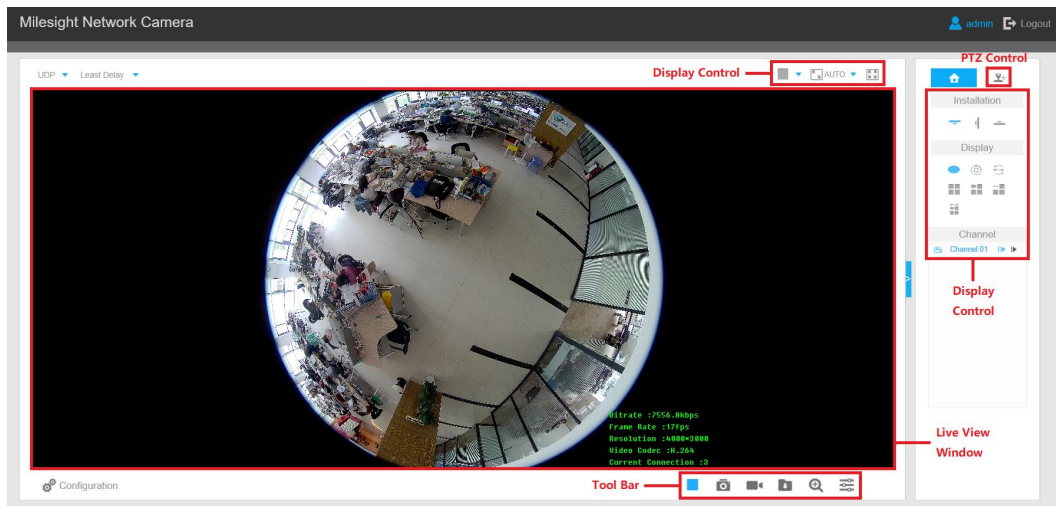


Figure 4-1-1 Live view interface (Multi-Channel Mode)

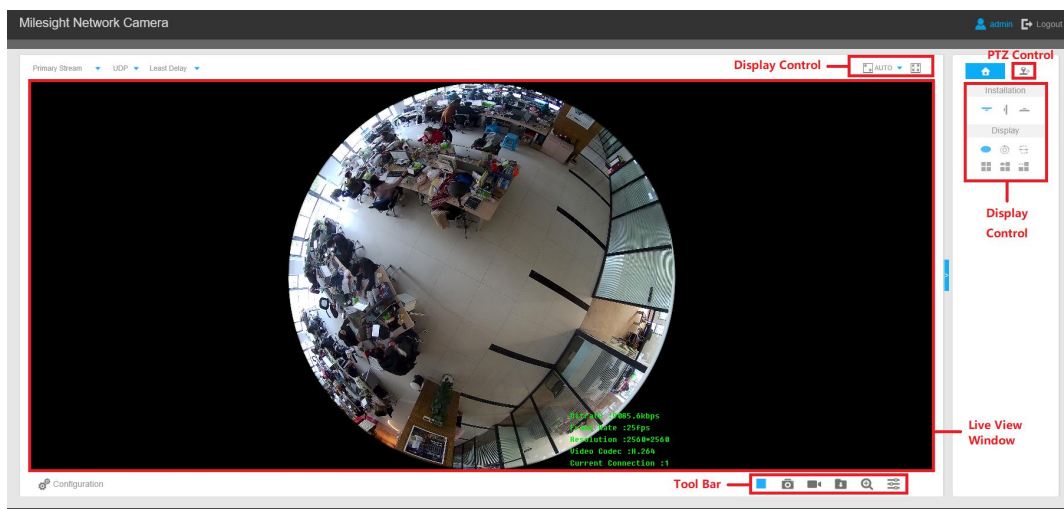


Figure 4-1-2 Live view interface (Bundle-Stream Mode)





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

| No. | Parameter | Description |
|-----|--|--|
| 1 |  Ceiling Mounting | Click to select ceiling mounting. |
| 2 |  Wall Mounting | Click to select wall mounting. |
| 3 |  Flat Mounting | Click to select flat mounting. |
| 4 |  10 | Select live view of original fisheye view. |
| 5 |  1P | Select live view of 360° panoramic view. |
| 6 |  2P | Select live view of two 180° panoramic views. |
| 7 |  4R | Select live view of four regional views. |
| 8 |  103R | Select live view of one original fisheye view and three regional views. |
| 9 |  1P3R | Select live view of one 360° panoramic view and three regional views. |
| 10 |  101P3R (Only for Multi-Channel Mode) | Select live view of one original fisheye view, one 360° panoramic view and three regional views. |
| 11 |  (Only for Multi-Channel Mode) | Click to play this channel on any window of live view. |

| | | |
|----|---|--|
| 12 |  Window Layout (Only for Multi-Channel Mode) | Click to set window layout to "1*1"/ "2*2"/ "1+4". |
| 13 |  Window Size | Click to display images at a window size. |
| 14 |  Real Size | Click to display images at a real size. |
| 15 |  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.
All the Display modes are hardware decoded.



Live View Window

Display live video on the window.

Tool Bar

Table 4-1-1 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 |  Image Adjustment | <p>Brightness: Adjust the Brightness of the scene</p> <p>Contrast: Adjust the color and light contrast</p> <p>Saturation: Adjust the Saturation of the image. Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out"</p> <p>Sharpness: Adjust the Sharpness of image. Higher Sharpness sharps the pixel boundary and makes the image looks "more clear"</p> <p>Noise Reduction Level: Adjust the noise reduction level</p> <p>Default: Restore brightness, contrast and saturation to default settings</p> |




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 4-1-1 Description of PTZ Control buttons

| No. | Parameter | Description |
|-----|--|--|
| 1 |  PTZ Control | Navigation key is used to control the direction. The rotation key is used for auto-rotation. |
| 2 |  PTZ Speed | To adjust the speed of pan/tilt movements, from 1 to 10 |
| 3 |  | Click to zoom in and zoom out |

| | | |
|---|---|---|
| 4 |  Preset | Enable to set 255 preset positions for each regional view channel |
| 5 |  Patrol | Enable to set 8 patrol paths for each regional view channel |

Other

Table 4-1-1 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;

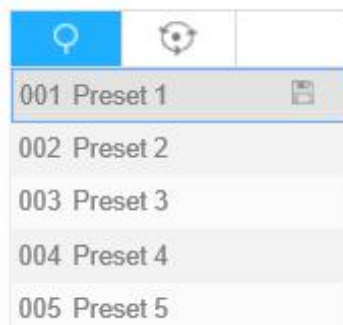



Figure 4-1-3 Set a Preset

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 from the preset list and click  to call the preset.

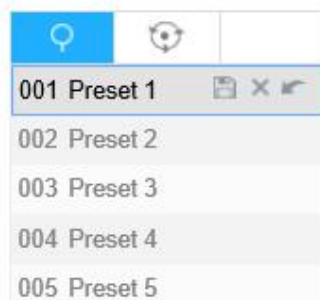



Figure 4-1-4 call a Preset


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 in Figure 4-1-5;

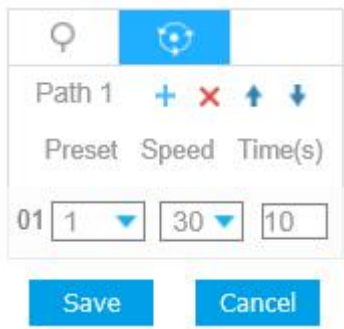



Figure 4-1-5 Configure a Patrol

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

Table 4-1-3 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 in Figure 4-1-6.

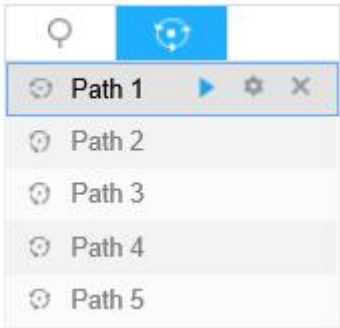




Figure 4-1-6 Call a Patrol

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.

Step1: Click  Configuration and then click  Playback on the menu bar to enter playback interface;

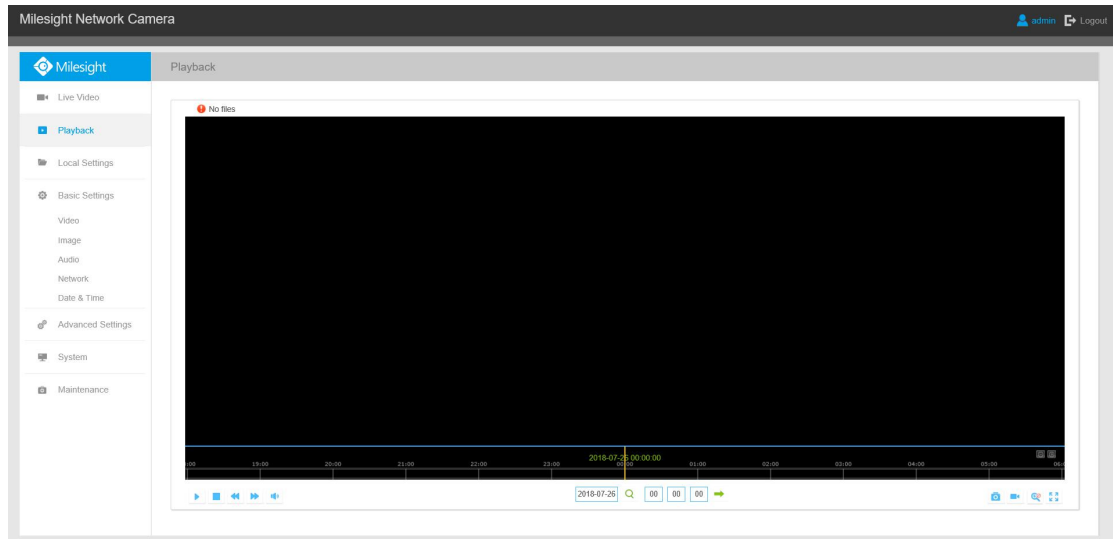


Figure 4-2-1 Playback interface

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

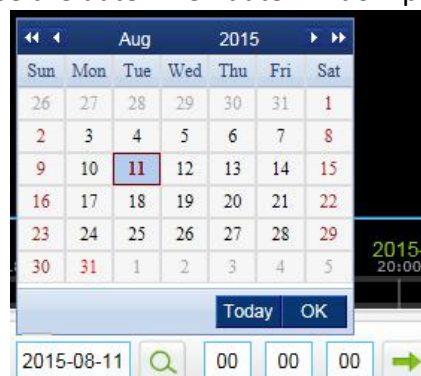



Figure 4-2-2 Search Video

Note:

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











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

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



Figure 4-2-3 Playback Toolbar

Table 4-2-1 Description of the buttons

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



Figure 4-2-4 Set Playback Time

4.3 Local Settings

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

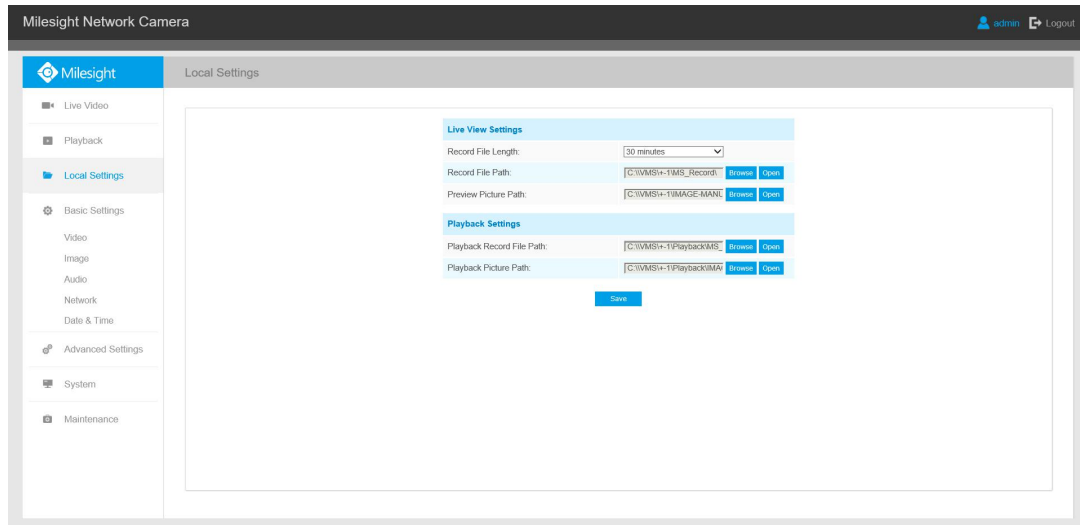


Figure 4-3-1 Local Settings

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).

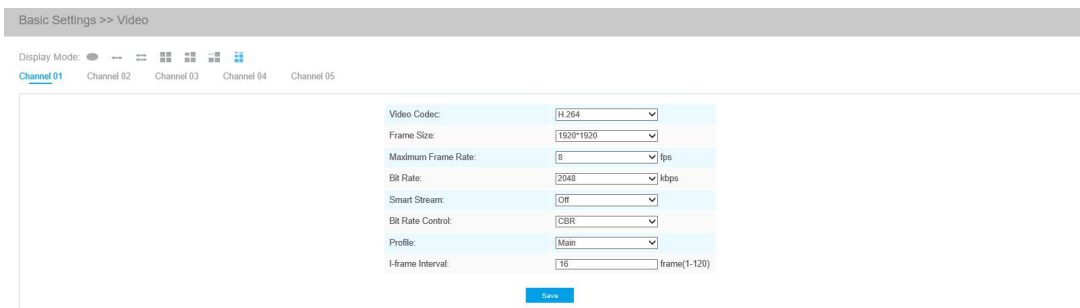


Figure 4-4-1 Stream Settings (Multi-Channel Mode)

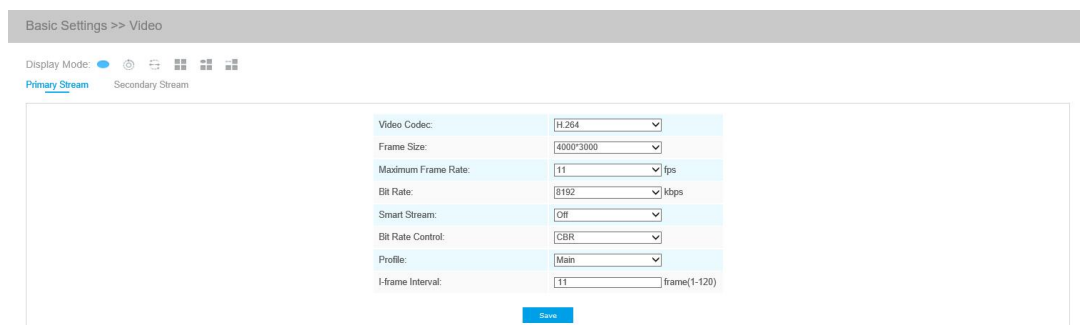


Figure 4-4-2 Stream Settings (Bundle-Stream Mode)

| Parameters | Function Introduction |
|--|---|
| Channel (Only for Multi-Channel Mode) | The number of channels are variable according to the selected display mode. 1O and 1P display one channel. 2P displays two channels. 4R, 1O3R and 1P3R display four channels. 1O1P3R displays five channels. |
| Display Mode (Only for Bundle-Stream Mode) | 1O/1P/2P/4R/1O3R/1P3R are available. |
| Stream Type (Only for Bundle-Stream Mode) | Primary Stream/Secondary Stream are available. |
| Video Codec | H.265/H.264 are available. |
| Frame Size | 4000*3000, 3000*3000, 2560*2560, 1920*1920, 1280*1280 are available frame size for original fisheye view in 1O. 2560*2560, 1920*1920, 1280*1280 are available frame size for original fisheye view in 1O3R and 1O1P3R. 3000*752, 2560*640, 1920*480 are available frame size for 360° panoramic view in 1P and 1P3R. 2560*640, 1920*480 are available frame size for 360° panoramic view in 1O1P3R 3000*1680, 2688*1520, 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. |
| Maximum Frame Rate | Maximum Frame Rate means maximum refresh frame rate of per second, it is variable according to the display mode selected. |
| Bit Rate | Set the bitrate to 16~16384 Kbps. The higher value corresponds to the higher video quality, and the higher bandwidth is required as well. |
| Smart Stream | Smart Stream mode remarkably reduces the bandwidth and the data storage requirements for network cameras while ensuring the high quality of images and it is a 10-level adjustable codec. There is an option to turn On/Off Smart Stream mode. Level: Level 0~10 are available to meet your need. |
| Bit Rate Control | CBR: Constant Bitrate. The rate of CBR output is constant. |
| | VBR: Variable Bitrate. VBR files vary the amount of output data per time segment. |
| Image Quality | Low/Medium/High are available, this item is optional only if you select VBR. |

| | |
|-------------------------|--|
| Profile | The option is for H.264. Main/High/Basic 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

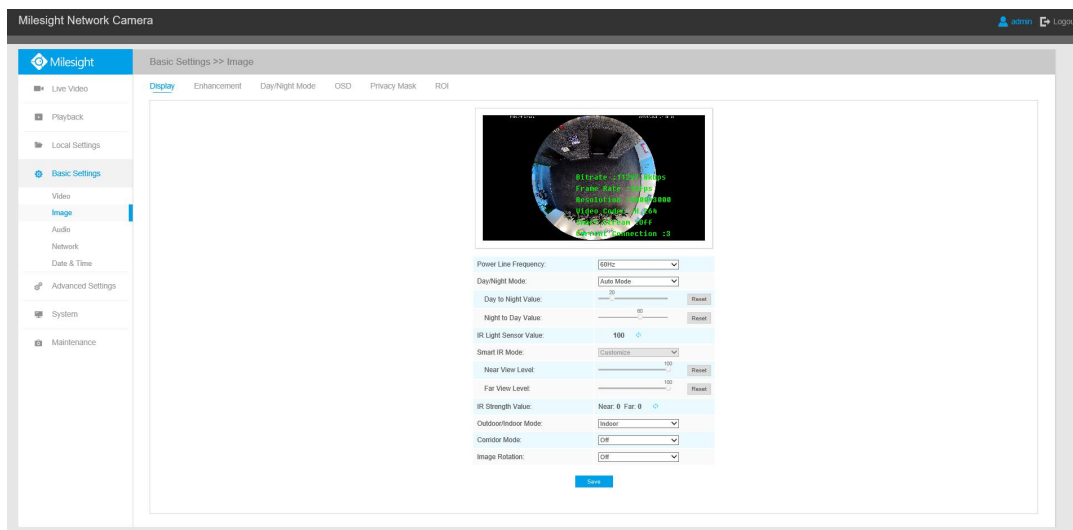


Figure 4-4-3 Display Settings

Table 4-4-2 Description of the buttons

| Parameters | Function Introduction |
|-----------------------------|---|
| Power Line Frequency | 60HZ flicker for NTSC mode and 50HZ flicker for PAL mode |
| Day/Night Mode | <p>There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with this mode.</p> <p>Night Mode: 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

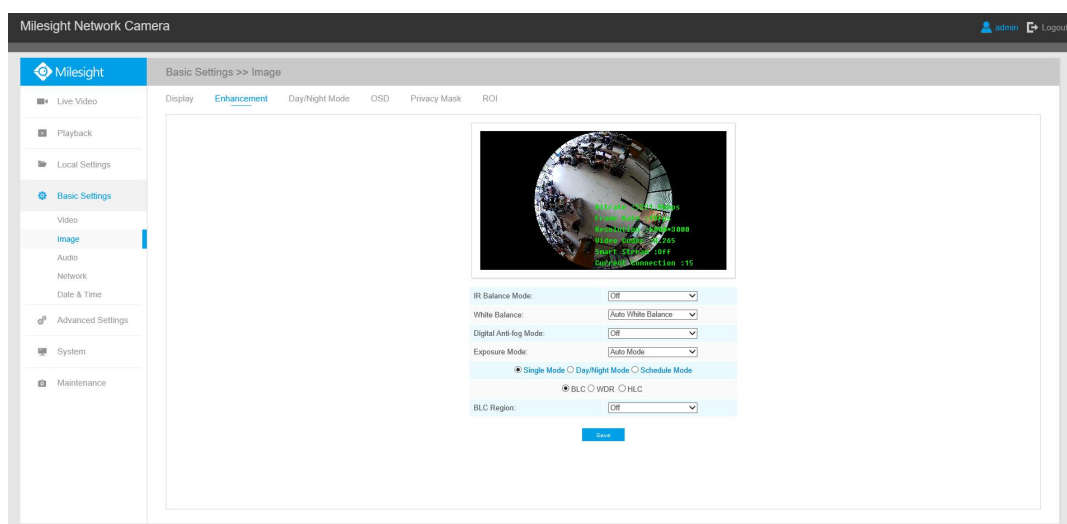


Figure 4-4-4 Enhancement Settings

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> |
| Digital Anti-fog 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> <p>On: Enable the WDR, there are Low/High/Auto three levels</p> |

| | |
|--------------------------------|--|
| | 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 | 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 Off: Disable HLC function General Mode: Enable the general mode of HLC, and there is a setting for HLC Level Enhanced Mode: Enable the enhanced mode of HLC, and there is a setting for HLC Level |
| 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.

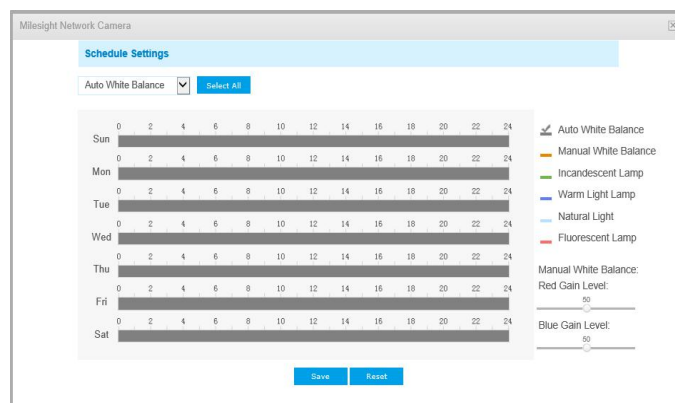


Figure 4-4-5 White Balance schedule settings

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

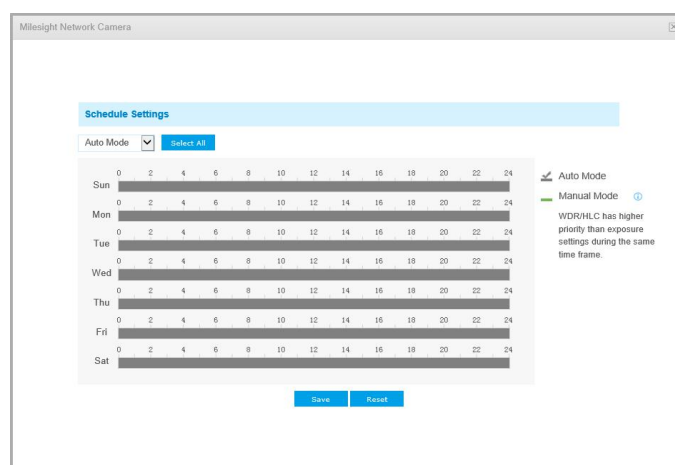


Figure 4-4-6 Exposure mode schedule settings

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

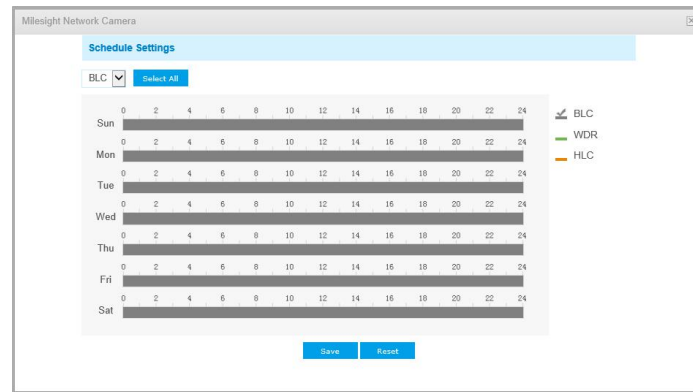


Figure 4-4-7 BLC/WDR/HLC mode schedule settings

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

5) Anti-fog Image.

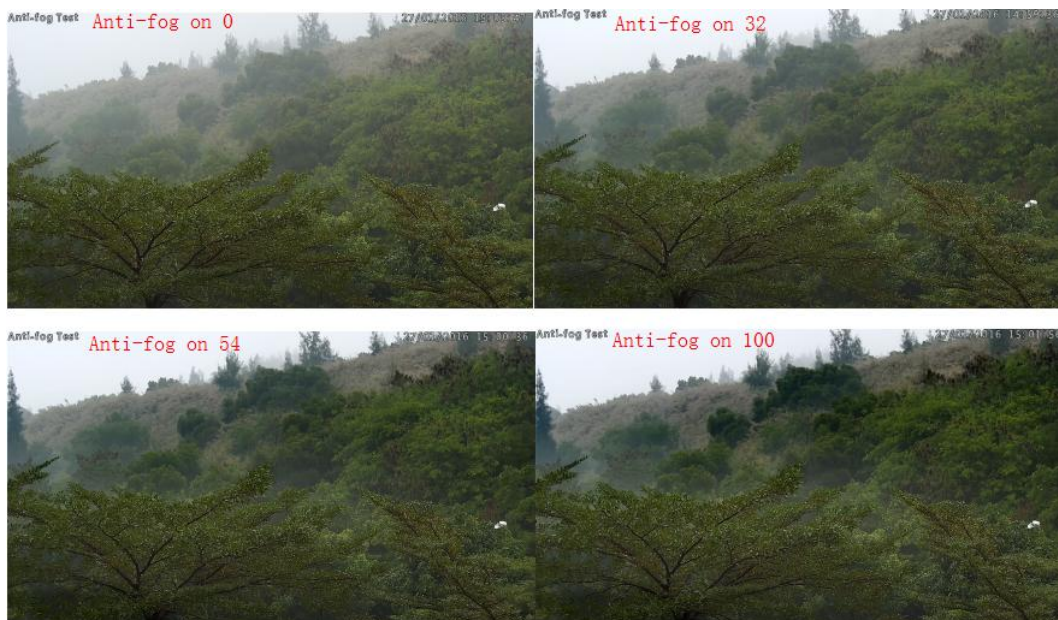


Figure 4-4-8 Anti-fog Image

6) HLC Image.



Figure 4-4-9 HLC Image

Day/Night Mode

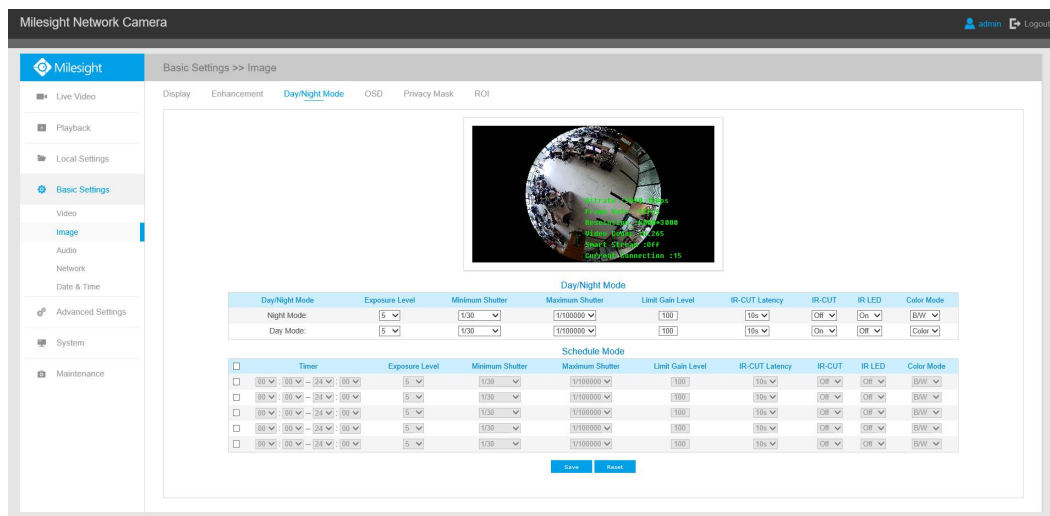


Figure 4-4-10 Day/Night Mode Settings

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)

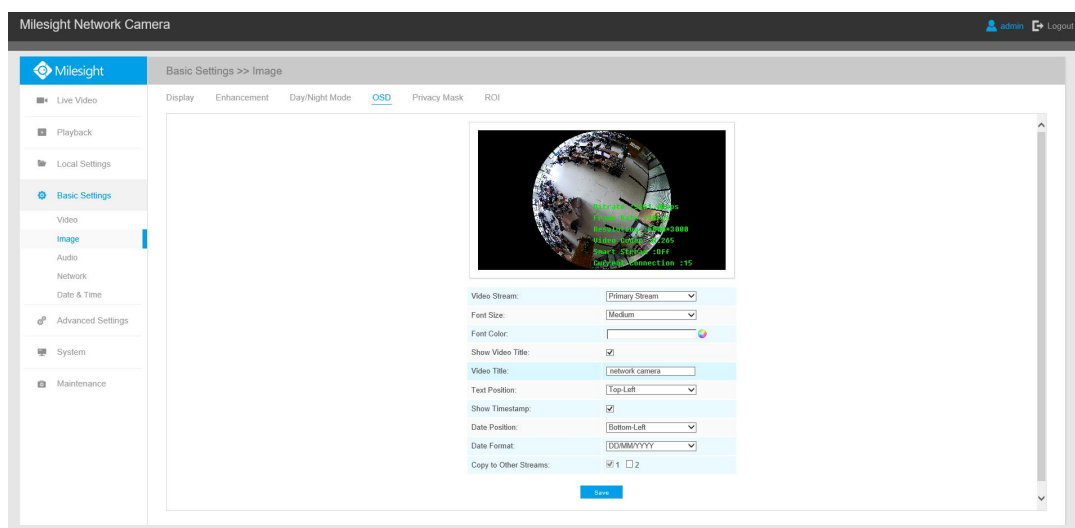


Figure 4-4-11 OSD Settings

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

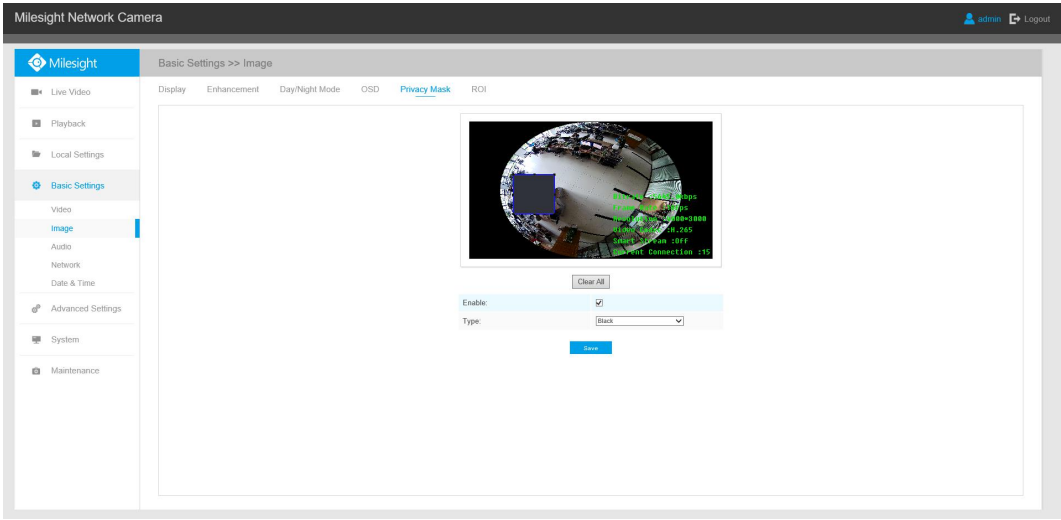


Figure 4-4-12 Privacy Mask

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 3 key regions of a scene to transmit through separate streams for targeted preview and recording.

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

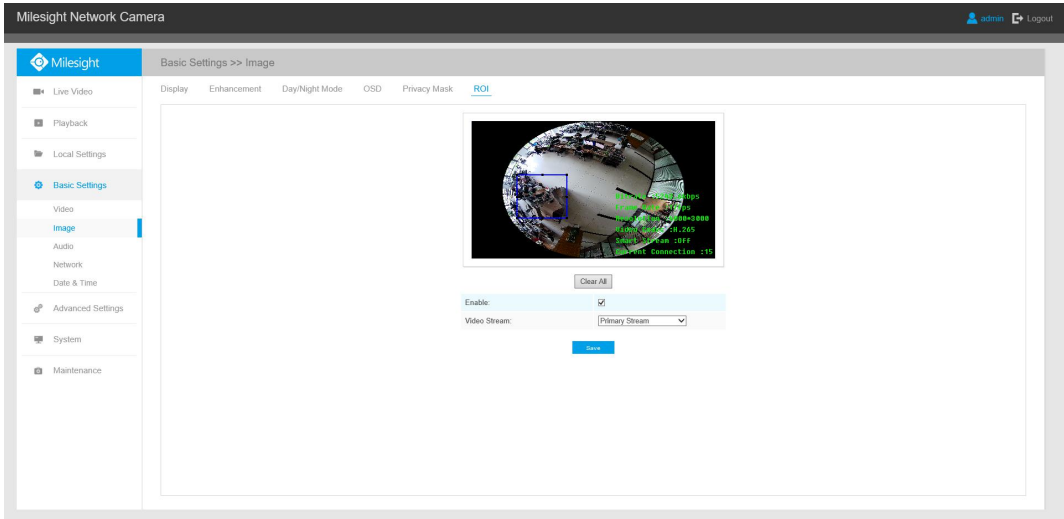


Figure 4-4-13 ROI Settings

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:

- A. 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.
- B. 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.

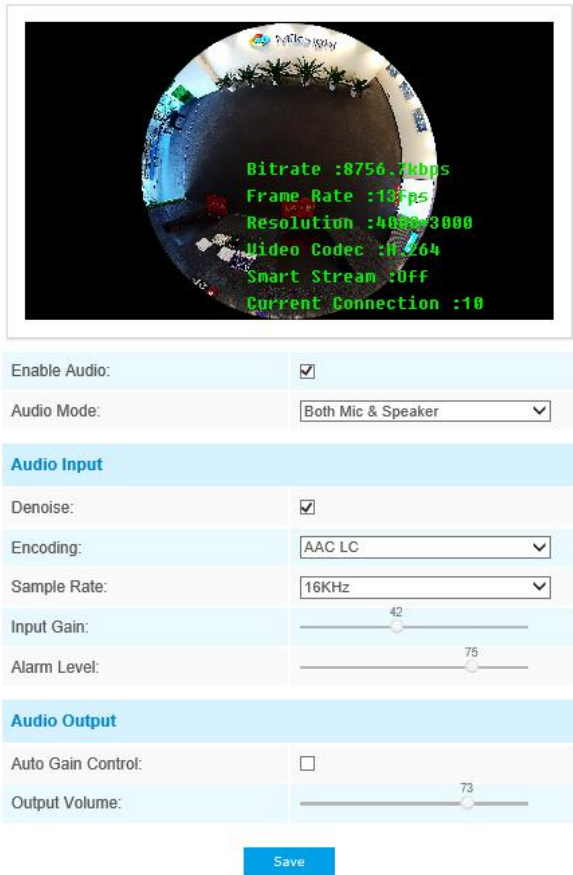


Figure 4-4-14 Audio Settings

Table 4-4-8 Description of the buttons

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

You can upload up to 3 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 | <div></div> |

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

Figure 4-4-15 Audio File

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:

192.168.8.120

Test

IPv4 Subnet Mask:

255.255.252.0

IPv4 Default Gateway:

192.168.8.2

Preferred DNS Server:

8.8.8.8

IPv6 Mode:

Manual

IPv6 Address:

IPv6 Prefix:

IPv6 Default Gateway:

Figure 4-4-16 TCP/IP Settings

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> |

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37

| | |
|--|--|
| | <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

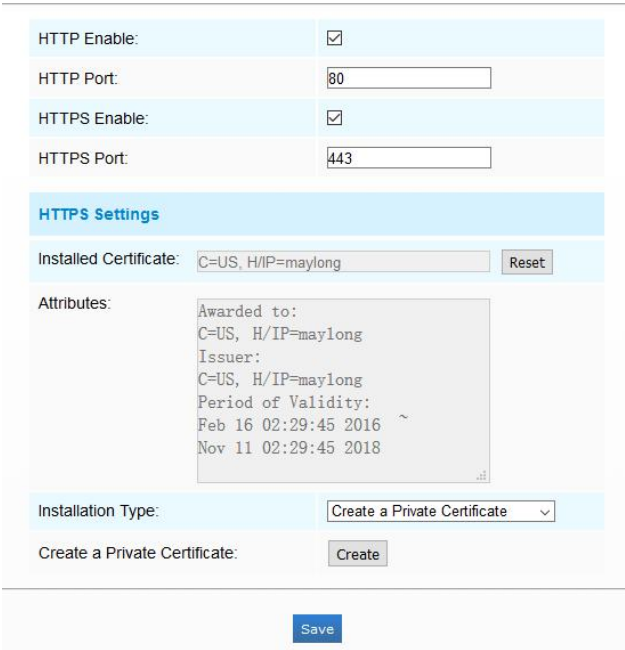


Figure 4-4-17 HTTP Settings

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"/> |

Figure 4-4-18 RTSP Settings

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/forth |
| 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

Figure 4-4-19 UPnP Settings

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 | Auto: Automatically obtain the corresponding HTTP and RTSP port, without any settings Manual: Need to manually set the appropriate HTTP port and RTSP Port. When choose Manual, you can customize the value of the port number by yourself |

DDNS

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

DDNS is not running

Enable DDNS: ☐

Provider: 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

Figure 4-4-20 DDNS Settings

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 |

Figure 4-4-21 SMTP Settings

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: 192.168.8.72

Server Port: 21

User Name: admin

Password:

FTP Storage Settings

Storage Path: Child Directory

Parent Directory: IP Address

Child Directory: Device Name

Alarm Action File Name: Customize

Video File Name: YYYY-MM-DD

Image File Name: YYYY-MM-DD

Timing Snapshot File Name: Default(YYYY-MM-DD)

Save Test

Figure 4-4-22 FTP Settings

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 the alarm action file name, YYYY-MM-DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available. |

| | |
|---------------------------|--|
| Image File Name | If you choose to customize the alarm action file name, YYYY-MM-DD/MM-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"/> |
| VLAN Netmask: | <input type="text"/> |
| VLAN Gateway: | <input type="text"/> |

Save

Figure 4-4-23 VLAN Settings

Note:

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

PPPoE

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

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

Save

Figure 4-4-24 PPPoE Settings

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.

The screenshot displays the 'SNMP Settings' configuration page. It is organized into three main sections: 'SNMP v1/v2', 'SNMP v3', and 'SNMP Port'.
 - The 'SNMP v1/v2' section includes checkboxes for 'SNMP V1 Enable' and 'SNMP V2c Enable'. Below these are text input fields for 'Write Community' (containing 'public') and 'Read Community' (containing 'private').
 - The 'SNMP v3' section includes a checkbox for 'SNMP V3 Enable'. It has text input fields for 'Read Security Name' and 'Write Security Name'. Below each of these is a dropdown menu for 'Level of Security', both currently set to 'no auth, no priv'.
 - The 'SNMP Port' section has a single text input field for 'SNMP Port' with the value '161'.
 - A blue 'Save' button is located at the bottom center of the form.

Figure 4-4-25 SNMP Settings

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

Figure 4-4-26 802.1x Settings

4.4.5 Date&Time

| | |
|--|---|
| Current System Time | |
| Date: | 03/11/2017 |
| Time: | 16:40:18 |
| Set the System Time | |
| Time Zone: | 8 China (Beijing, Taipei) |
| Daylight Saving Time: | Disabled |
| NTP Sync: | <input checked="" type="checkbox"/> Interval: 1 day |
| <input type="radio"/> Synchronize with computer time | |
| Date: | 03/11/2017 |
| Time: | 16:40:52 |
| <input type="radio"/> NTP server | |
| <input type="radio"/> Manual | |

Save

Figure 4-4-27 Date&Time Settings

Current System Time

Current date&time of the system

Set the System Time

Table 4-4-17 Description of the buttons

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

4.5 Advanced Settings

4.5.1 Alarm

Motion Detection


Step1: Check the checkbox to enable the motion detection;

Step2: Set motion region;

Enable Motion Detection: ☐

Onvif Motion ActiveCells Settings: Normal

Set Motion Region



Select All

Clear All

(Please draw the screen for setting!)

Sensitivity 5

Figure 4-5-1 Motion Region Settings

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

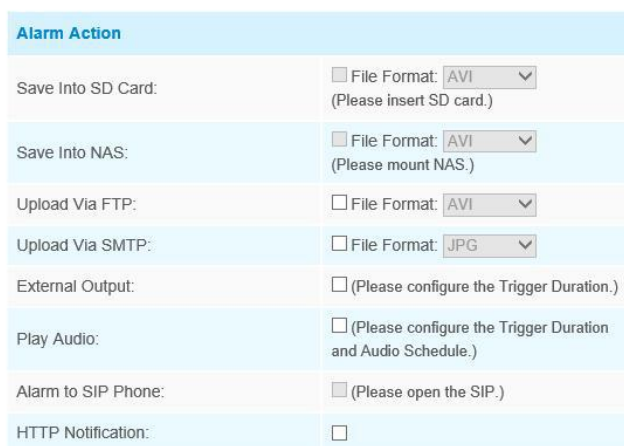
Sun
Mon
Tue
Wed
Thu
Fri
Sat

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

Edit

Figure 4-5-2 Schedule Settings

Step4: Set alarm action;



Alarm Action

Save Into SD Card: ☐ File Format: AVI (Please insert SD card.)

Save Into NAS: ☐ File Format: AVI (Please mount NAS.)

Upload Via FTP: ☐ File Format: AVI

Upload Via SMTP: ☐ File Format: JPG

External Output: ☐ (Please configure the Trigger Duration.)

Play Audio: ☐ (Please configure the Trigger Duration and Audio Schedule.)

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

HTTP Notification: ☐

Figure 4-5-3 Alarm Action

Table 4-5-2 Description of the buttons

| Parameters | Function Introduction |
|--------------------|--|
| Save Into SD Card | Save alarm recording files into SD Card. |
| Save Into NAS | Save alarm recording files into NAS. |
| Upload Via FTP | Upload the recording files via FTP. |
| Upload Via SMTP | Upload the files via SMTP. |
| External Output | If the camera equips with External Output, you can enable the action after configuring the trigger duration. |
| Play Audio | If the camera equips with Speaker, you can enable the action after configuring the audio speaker. |
| Alarm to SIP Phone | Support to call the SIP phone after enable the SIP function. |
| HTTP Notification | Support to pop up the alarm news to specified HTTP URL. |

NOTE:

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

Here 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;

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

HTTP Password: ms1234 (the password of your camera)

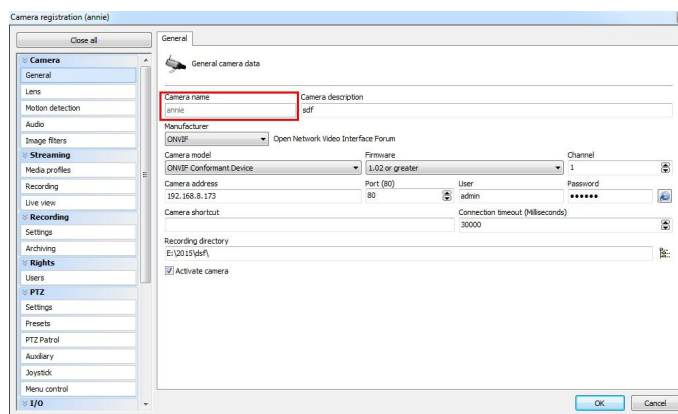
HTTP Notification URL:

<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.

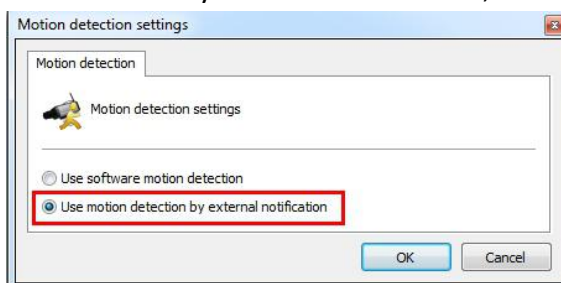
CameraName is the camera name you set in Digifort VMS, like the picture shown below.



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 ▼ |
| Pre-record: | 0 second ▼ |
| Snapshot: | 3 ▼ |
| Snapshot Interval: | 1 second ▼ |
| External Output Action Time: | 10 seconds ▼ |
| Audio Action Settings: | <button>Edit</button> |
| Play Audio Interval: | Auto ▼ |
| <button>Save</button> | |

Figure 4-5-4 Alarm Settings

Table 4-5-3 Description of the buttons

| Parameters | Function Introduction |
|------------------------------------|--|
| Record Video Sections | Six different periods are available(5, 10, 15, 20, 25, 30 sec). |
| Pre-record | Reserve the record time before alarm, 0~10 sec. |
| Snapshot | The number of snapshot, 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.

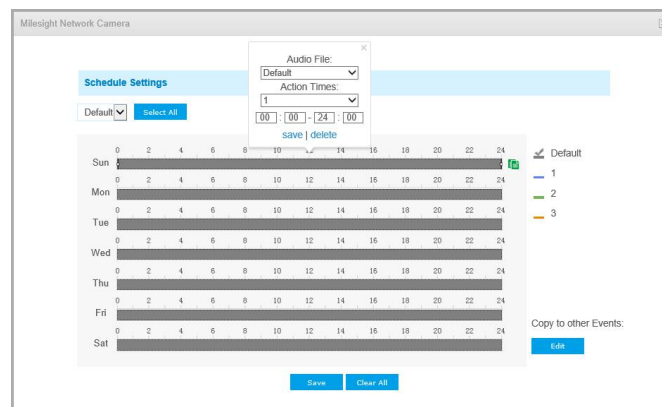


Figure 4-5-5 Audio Action schedule settings

Audio Alarm

Enable the Audio before using Audio Alarm function.

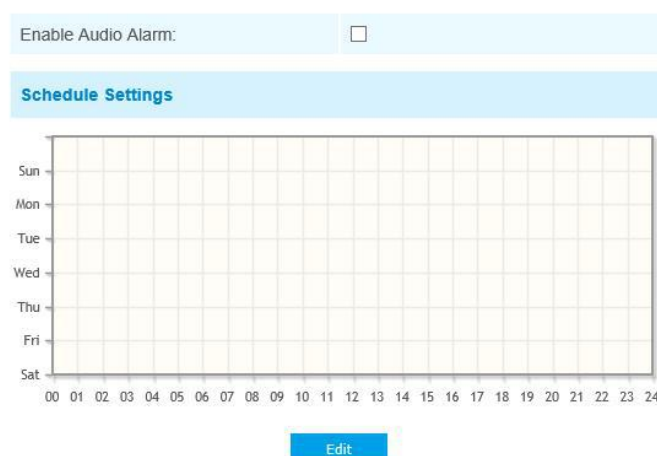


Figure 4-5-6 Schedule Settings

| Alarm Action | |
|---------------------|---|
| Save Into SD Card: | <input type="checkbox"/> File Format: AVI ▼ (Please insert SD card.) |
| Save Into NAS: | <input type="checkbox"/> File Format: AVI ▼ (Please mount NAS.) |
| Upload Via FTP: | <input type="checkbox"/> File Format: AVI ▼ |
| Upload Via SMTP: | <input type="checkbox"/> File Format: JPG ▼ |
| External Output: | <input type="checkbox"/> (Please configure the 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 ▼ |
| Pre-record: | 0 second ▼ |
| Snapshot: | 3 ▼ |
| Snapshot Interval: | 1 second ▼ |
| External Output Action Time: | 30 seconds ▼ |
| Audio Action Settings: | Edit |
| Play Audio Interval: | Auto ▼ |

Save

Figure 4-5-7 Alarm Settings

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

External Input

Enable External Input:

☐

Schedule Settings

Sun

Mon

Tue

Wed

Thu

Fri

Sat

00

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

Edit

Figure 4-5-8 Schedule Settings

| Alarm Action | |
|---------------------|---|
| Save Into SD Card: | <input type="checkbox"/> File Format: AVI (Please insert SD card.) |
| Save Into NAS: | <input type="checkbox"/> File Format: AVI (Please mount NAS.) |
| Upload Via FTP: | <input type="checkbox"/> File Format: AVI |
| Upload Via SMTP: | <input type="checkbox"/> File Format: JPG |
| External Output: | <input type="checkbox"/> (Please configure the 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 |
| Pre-record: | 0 second |
| Snapshot: | 3 |
| Snapshot Interval: | 1 second |
| External Output Action Time: | 30 seconds |
| Audio Action Settings: | Edit |
| Play Audio Interval: | Auto |

Save

Figure 4-5-9 Alarm Settings

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

Other Alarm

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

| Alarm Action | |
|--------------------|---|
| Save Into SD Card: | <input type="checkbox"/> File Format: AVI (Please insert SD card.) |
| External Output: | <input type="checkbox"/> (Please configure the External Output Action Time.) |
| Play Audio: | <input type="checkbox"/> (Please configure the Audio Action Settings and Audio Interval.) |

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

Save

Figure 4-5-10 Other Alarm

Table 4-5-4 Description of the buttons

| Parameters | Function Introduction |
|---------------|---|
| Alarm Type | Network Lost, Tampering and IP Address Conflicted are available Check the checkbox to enable the alarm type you selected |
| Alarm Action | Save Into SD Card: Save alarm recording files into SD Card External Output: If the camera equips with External Output, you can enable the action after configuring the trigger duration Play Audio: If the camera equips with Speaker, you can enable the action after configuring the audio speaker |
| Alarm Setting | Record Video Sections: Six different periods are available(5, 10, 15, 20, 25, 30 sec) Pre-record: Reserve the record time before alarm, 0~10 sec Snapshot: The number of snapshot, 1~5 Snapshot Interval: This cannot be edited unless you choose more than 1 to Snapshot External Output Action Time: Length of time an alarm lasts, this cannot be edited unless 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 |

External Output

External Output

Normal Status:

☐ Open
☒ Grounded

Current Status:

Grounded

Test

Save

Figure 4-5-11 External Output Settings

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

4.5.2 Storage

Before you start:

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

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

SD Card

Total Size:0M Free Size:0M Used Size:0M Format Mount

Enable Recycle Storage: ☐

Delete % When the free disk space at M

Note:Please insert SD card.

Save

Figure 4-5-12 SD Card

Table 4-5-5 Description of the buttons

| Parameters | Function Introduction |
|-----------------------|--|
| Format | Format SD card, and the files in SD card will be removed. |
| Mount/UnMount | Mount/Dismount SD card |
| Enable cyclic storage | Enable/Disable cyclic storage |
| Delete | Enable cyclic storage. When the free disk space reach at a certain 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.

Server Address:

File Path:

Mounting Type:

User Name:

Password:

Enable Recycle Storage: ☒

Delete % When the free disk space at M

Save Cancel

Figure 4-5-13 NAS Settings

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 Schedule

SD Card Record Settings

File Sizes:

256

(10-256)M

Record Frame Type:

All

Schedule Settings

Edit

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

NAS Record Settings

File Sizes:

256

(10-256)M

Record Frame Type:

All

Schedule Settings

Edit

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

Save

Figure 4-5-14 Record Schedule

Table 4-5-5 Description of the buttons

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

Note:
SD Card or NAS are available.

SD Card Explorer

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

Note:

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

SD card video files are arranged by date. Each day files will be displayed under the corresponding date, from which 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.).

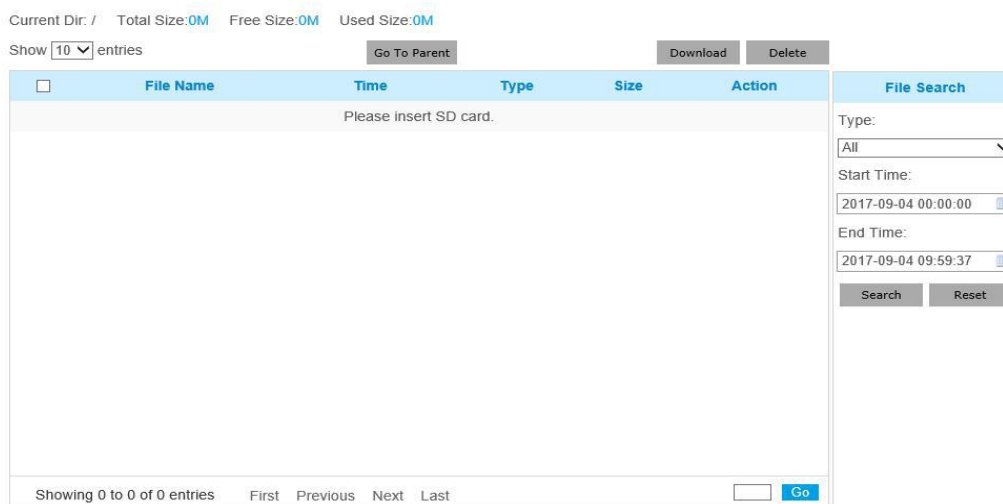


Figure 4-5-15 SD Card Explore

Snapshot

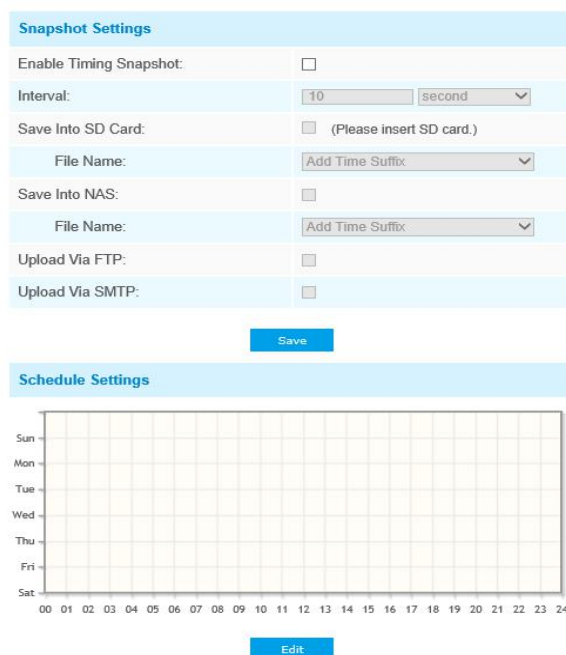


Figure 4-5-16 Snapshot

Table 4-5-7 Description of the buttons

| Parameters | Function Introduction |
|-------------------|--|
| Snapshot Settings | <p>Enable Time Snapshot: Check the checkbox to enable the Timing Snapshot function;</p> <p>Interval: Set the snapshots interval, input the number and choose the unit(millisecond, second, minute, hour, day);</p> <p>Save Into SD Card: Save the snapshots into SD card, and choose the file name to add time suffix or overwrite the base file name;</p> <p>Save Into NAS: Save the snapshots into NAS, and choose the file name to add time suffix or overwrite the base file name;</p> <p>Upload Via FTP: Upload the snapshots via FTP;</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. |

4.5.3 Security

User

Manage Privilege

Allow Anonymous Viewing: ☐

Account Management

User Name:

Password:

Confirm Password:

Privilege:

Note: You can only add 20 users

Save

Clear



| User Name | Privilege | Edit | Delete |
|-----------|---------------|---|---|
| admin | Administrator |  |  |

Figure 4-5-17 User Settings

Table 4-5-8 Description of the buttons

| Parameters | Function Introduction |
|------------------|---|
| Manage Privilege | Allow anonymous viewing: Check the checkbox to enable visit from whom doesn't have account of the device. |

| | |
|---------------------------|--|
| Account Management | User Name: Input user name for creating an account; User Password: Input password for the account; Confirm User Password: Confirm the password; Privilege: Set the privilege for the account. |
| Administrator | An administrator can manage all configuration pages of the device, including the change of user password, and the addition or deletion of users (the default user "admin" cannot be deleted). |
| Operator | An operator can manage all configuration pages except the User page. |
| Viewer | A viewer can't change any settings. |

Note:

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

Access List

General Settings

Maximum Number of Concurrent Streaming:

IP Access List

Rule:

IP Address:

Add

Enable Access List Filtering: ☐

Filter Type: ☐ Allow ☒ Deny

Save

Figure 4-5-18 Access List

Table 4-5-9 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: | <input checked="" type="checkbox"/> |
| SSH Port: | <input type="text" value="6022"/> |

Save

Figure 4-5-19 Security Service

Table 4-5-10 Description of the buttons

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

4.5.4 SIP

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

Method 1: IP Direct mode

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

Note:

SIP phone and the camera should in the same network segment.

Method2: Account registration mode

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

SIP Settings

Unregistered

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

Note:SIP supports Direct IP call.

[Save](#)

Figure 4-5-20 SIP Settings

Table 4-5-11 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:

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

Alarm Phone List

| | |
|------------------|---|
| Phone Type: | 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"/> |

Add

Figure 4-5-21 Alarm Phone List

Table 4-5-12 Description of the buttons

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

White List

| | |
|---------------|----------------------|
| Phone Type: | Phone Number ▾ |
| Phone Number: | <input type="text"/> |

Add

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

Save

Figure 4-5-22 White List

Table 4-5-13 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 Fisheye

PTZ

PTZ OSD

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

Save

Figure 4-5-23 PTZ OSD

Table 4-5-14 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. |

Compatibility

Compatible Mode

Transfer Mode: Bundle-Stream Mode ▼ ⓘ

Save

Figure 4-5-24 Compatible Mode

Table 4-5-15 Description of the buttons

| Parameters | Function Introduction |
|---------------|---|
| Transfer Mode | Support to choose Bundle-Stream Mode or Multi-Channel Mode to meet different needs. Bundle-Stream Mode: the Bundle-Stream Mode combines all the channels into one and sends to NVR or VMS, which is easy for compatibility. Multi-Channel Mode: the Multi-Channel Mode sends all the original channels to NVR or VMS, so the channels can be modified separately. |

Note:

We recommend Bundle-Stream mode with Milesight NVR.

4.5.6 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 <div>1</div> 2 3 4 5 ... 41 Next Last | | | | | | |

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

Figure 4-5-25 Logs

Table 4-5-16 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: | V1.7 |
| Software Version: | 42.7.0.67-r1 |
| MAC Address: | 1C:C3:16:22:09:B7 |
| Device Information: | SC000EQ370N2001 |
| Alarm Input: | 1 |
| Alarm Output: | 1 |
| Uptime: | 20 days 1 hours 53 minutes |

[Save](#)

Figure 4-6-1 System Information

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

The software can be upgraded by the following steps:

Step1: Browse and select the upgrading file;

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

Note:

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

| System Upgrade | |
|--|--------------------------------|
| Hardware Version: | V1.7 |
| Software Version: | 42.7.0.67-r1 |
| Firmware File: | <input type="text"/> Browse... |
| Reset after Upgrading: | <input type="checkbox"/> |
| <div>Upgrade</div> | |
| <p>Note: Do not disconnect the power of the device during the upgrade.</p> | |
| Maintenance | |
| Reboot the Device: | <div>Reboot</div> |
| Reset Settings to Factory Default <input checked="" type="checkbox"/> Keep the IP Configuration | <div>Reset</div> |
| Export Config File: | <div>Export</div> |
| Import Config File: | <input type="text"/> Browse... |
| <div>Upload</div> | |

Figure 4-7-1 Maintenance

Table 4-7-1 Description of the buttons

| Parameters | Function Introduction |
|----------------|---|
| System Upgrade | <p>Hardware Version: The hardware version of the camera;</p> <p>Software Version: The software version of the camera;</p> <p>Firmware File: Select the firmware used to upgrade.</p> <p>Reset after Upgrading: Select this option to reset camera after upgrading it.</p> |
| Maintenance | <p>Reboot the device: Click “Reboot” button to restart the device immediately</p> <p>Reset settings to Factory Default: Click “Reset” button to reset the camera to factory default settings</p> <p>Keep the IP Configuration: Select this option to keep the IP configuration 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> |

4.7.2 Auto Reboot

Set the date and time to enable Auto Reboot function.


| Auto Reboot Settings | |
|----------------------|--|
| Enable Auto Reboot: | <input type="checkbox"/> |
| Day: | Everyday ▾ |
| Time: | 00:00:00  |
| <div>Save</div> | |

Figure 4-7-2 Auto Reboot

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>

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