

PTZ Network Camera User Manual

V2.16

Milesight Technology Co.,Ltd.

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

	Milesi	ght H.265 PTZ Network Cam	era
Type Megapixel	2MP	5MP	8MP
Speed Dome Network Camera	MS-C2841-X36TPB/ MS-C2941-X23RPB/ MS-C2941-X30RPB/ MS-C2941-X42RPB	MS-C5341-X23HPB/ MS-C5341-X30HPB/ MS-C5341-X42HPB	MS-C8241-X36PB
12x Mini PTZ Bullet Network Camera	MS-C2961-(R)E(P)B/ MS-C2961-(Q)(R)EL(P)B	MS-C5361-(H)E(P)B	MS-C8161-(H)E(P)B
Mini PTZ Dome Network Camera	MS-C2871-X20TPB/ MS-C2971-X12RPB/ MS-C2971-X23RPB	MS-C5371-X12HPB/ MS-C5371-X23HPB	MS-C8271-X20PB

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

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

## **Copyright Statement**

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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 numerique de la classe B est conforme a la norme NMB-003 du Canada.





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.





- This installation must be conducted by a qualified service person and should strictly comply with the electrical safety regulations of the local region;
- To avoid risk of fire and electric shock, do keep the product away from rain and moisture before installed;
- Do not touch components such as heat sinks, power regulators, and processors, which may be hot;
- Source with DC 12V or AC 24V;
- 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.

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



## **EU Conformity Statement**



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



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or

mercury(Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

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# **Chapter I Product Description**

## **1.1 Product Overview**

📀 Milesight

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

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

## **1.2 Key Features**

- ♦ Up to 30x Optical Zoom for Speed Dome, 42x for Speed Dome II, 12x Optical Zoom for Mini PTZ Bullet and 23x for Mini PTZ Dome
- ♦ 360° continuous pan and 0°~ 90° (Auto Flip) tilt for Speed Dome/ Speed Dome II
- ♦ 360° continuous pan and -45°~30° tilt for Mini PTZ Bullet
- ♦ 360° continuous pan and -5°~90° (Auto Flip) tilt for Mini PTZ Dome
- ♦ 255 Preset Points, 8 Patrols and 4 Patterns
- ♦ Based on Linux OS with high reliability
- ♦ H.265/ H.264/ MJPEG video compression capability
- ♦ Support Plugin-Free mode
- ♦ Support Smart Stream
- ♦ Support ONVIF Profile G & Q & S & T
- Support activation and set-up of the security questions for cameras(V4x.7.0.69 or above)
- ♦ Support Primary Stream/ Secondary Stream/ Tertiary Stream
- ♦ ICR filter with auto switch, true day/night
- ♦ Built-in WEB server, support IE/ Firefox/ Chrome/ Safari browser
- ♦ UPnP protocol for the easy management of IPC
- ♦ Support Milesight DDNS
- ♦ Auto Tracking, 3D Positioning, PTZ Motion, PTZ Limit, Scheduled Tasks and Auto Home function
- ♦ White LED for Mini PTZ Bullet
- ♦ 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
- ♦ Audio Input/Output and Alarm Input/Output
- ♦ Three-privilege levels of users for flexible management
- ♦ Micro SD/SDHC/SDXC card local storage support, expand the edge storage
- ♦ Local PAL/NTSC signal output

## **1.3 Hardware Overview**

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#### 1. Speed Dome Network Camera



Figure 1-3-1 Speed Dome Network Camera

- 1) Only AC 24V is available for Speed Dome power supply. AC 24V and PoE (802.3at) are available for PoE Speed Dome power supply.
- 2) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.



#### 2. Speed Dome Network Camera II



Figure 1-3-2 Speed Dome Network Camera II

- 1) Only AC 24V is available for Speed Dome II power supply. AC 24V and PoE (802.3at) are available for PoE Speed Dome II power supply.
- 2) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.

## 3. 12x Mini PTZ Bullet Network Camera



Figure 1-3-3 12x Mini PTZ Bullet Network Camera

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



4. Mini PTZ Dome Network Camera



Figure 1-3-4 Mini PTZ Dome Network Camera

- 1) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.
- 2) DC 12V and PoE (802.3at) are available for power supply.

# 1.4 How to Connect to Alarm Interface

External interface of camera is as the following, you can refer to the picture to install the external alarm device: (Example for PTZ BULLET)



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

# 1.5 How to Connect the Water-proof Connector



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



# **1.6 System Requirements**

Operating System: Windows XP/Vista/7/8/10/Server 2000/Server 2008 CPU: 1.66GHz or higher RAM: 1G or higher Graphic memory: 128MB or more Internet protocol: TCP/IP (IPv4/IPv6) Web Browsers: Internet Explorer 8.0 and above version, Mozilla Firefox, Google Chrome and Safari.

# **Chapter II Network Connection**

## 2.1 Setting the Camera over the LAN

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

## 2.1.1 Connect the Camera to the PC Directly

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



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

## 2.1.2 Connect via a Switch or a Router

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



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

# 2.2 Dynamic IP Connection

### Connecting the network camera via a router

Step1: Connect the network camera to a router;

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

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



assistance with port forwarding;

Step4: Apply a domain name from a domain name provider; Step5: Configure the DDNS settings in the setting interface of the router; Step6: Visit the camera via the domain name.



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

# **Chapter III Accessing the Network Camera**

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

## **3.1 Assigning An IP Address**

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

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

## 3.1.1 Assigning An IP Address Using Smart Tools

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

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

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

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ú		No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
	C	58	Network Camera	Active	1C:C3:16:22:0C:74	192.168.7.81	80	255.255.240.0	192.168.7.1	MS-C8262-FPB	2019-03-11 13:49:07	43.7.0.68	6
	n	59	Network Camera	Active	1C:C3:16:23:C8:4D	192.168.7.86	80	255.255.240.0	192.168.8.2	MS-C5362-EPB	2019-03-08 08:32:58	41.7.0.67-r1	C
	C	60	MS-C2975-PB	Active	1C:C3:16:24:60:DE	192.168.7.93	80	255.255.240.0	192.168.7.1	MS-C2975-PB	2019-03-11 16:38:03	40.7.0.69	C
	n	61	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-03-06 09:34:46	41.7.0.67-r14	e
ų	C	62	Network Camera	Active	1C:C3:16:21:EC:5A	192.168.7.105	80	255.255.240.0	192.168.7.1	MS-C2972-FPB	2019-03-07 09:16:01	40.7.0.68-r3	C
	C	63	MS-C2964-FPB	Active	1C:C3:16:24:09:D2	192.168.7.110	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-03-11 09:34:42	40.7.0.69-r2	C
	r	64	Network Camera	Active	1C:C3:16:24:5F:53	192.168.7.113	80	255.255.240.0	192.168.7.1	MS-C2975-EPB	2019-03-11 15:35:33	40.7.0.68-r7	G
	n	65	MS-C3772-FIPB	Active	1C:C3:16:21:FA:67	192.168.7.128	80	255.255.255.0	192.168.7.2	MS-C3772-FIPB	2019-03-07 10:14:27	41.7.0.69-r2	G
	r	66	Network Camera	Active	1C:C3:16:19:00:6E	192.168.7.129	80	255.255.240.0	192.168.7.2	MS-C5364-PB	2019-03-11 09:14:09	41.7.0.67-a4	6
	C .	67	Network Camera	Active	1C:C3:16:11:02:40	192.168.7. <mark>1</mark> 90	80	255.255.255.0	192.168.7.1	NC3263-PNA	2019-01-10 11:07:21	30.7.1.63-r20	C
	r	68	Network Camera	Active	1C:C3:16:22:01:0B	192.168.7.202	80	255.255.240.0	192.168.7.2	MS-C9674-PB	2019-02-27 17:11:14	42.7.0.67-r1	C
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## Step3: Select a camera or multiple cameras according to the MAC addresses;

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	C	59	Network Camera	Active	1C:C3:16:22:0C:74	192. <mark>168.7.81</mark>	80	255.255.240.0	192.168.7.1	MS-C8262-FPB	2019-03-11 13:49:07	43.7.0.68	C
	r	60	Network Camera	Active	1C:C3:16:23:C8:4D	192.168.7.86	80	255.255.240.0	192.168.8.2	MS-C5362-EPB	2019-03-08	41.7.0.67-r1	6
	6	61	MS-C2975-PB	Active	1C:C3:16:24:60:DE	192. <mark>1</mark> 68.7.93	80	255.255.240.0	192.168.7.1	MS-C2975-PB	2019-03-11 16:38:04	40.7.0.69	C
	•	62	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-03-06 09:34:45	41.7.0.67-r14	
I	C	63	Network Camera	Active	1C:C3:16:21:EC:5A	192.168.7.105	80	255.255.240.0	192.168.7.1	MS-C2972-FPB	2019-03-07 09:16:00	40.7.0.68-r3	C
1	r	64	MS-C2964-FPB	Active	1C:C3:16:24:09:D2	192.168.7.110	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-03-11 09:34:43	40.7.0.69-r2	6
1	0	65	Network Camera	Active	1C:C3:16:24:5F:53	192.1 <mark>68.7.</mark> 113	80	255.255.240.0	192.168.7.1	MS-C2975-EPB	2019-03-11 15:35:34	40.7.0.68-r7	C
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1	r	68	Network Camera	Active	1C:C3:16:11:02:40	192.168.7.190	80	255.255.255.0	192.168.7.1	NC3263-PNA	2019-01-10	30.7.1.63-r20	C
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Select single camera

No.         Device Name         Status         MAC         IP         Post         Netmask         Gateway         Model         Run-up Time         Version           58         Network Camera         Active         1C:C3:16:24:60:F6         192:168.7.80         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         14:14:32         2019-03-11         14:14:32         14:07         2019-03-11         14:14:32         14:07         2019-03-11         14:07 <t< th=""><th>No.         Device Name         Status         MAC         IP         A Port         Netmask         Gateway         Model         Run-up Time         Version           58         Network Camera         Active         1C:C3:16:24:60:F6         192:168.7.80         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-11         40.70.67-f6           59         Network Camera         Active         1C:C3:16:22:0C:74         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C8262-FPB         2019-03-11         43.70.68           60         Network Camera         Active         1C:C3:16:23:06:4D         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C8262-FPB         2019-03-01         43.70.68           61         MS-C2975-PB         Active         1C:C3:16:24:60:DE         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2962-FPB         2019-03-01         40.70.69           62         Network Camera         Active         1C:C3:16:24:00:DE         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         2019-03-01         40.70.69           63         Network Camera         Active         1C:C3:16:24:5F:53         192:168.</th></t<>	No.         Device Name         Status         MAC         IP         A Port         Netmask         Gateway         Model         Run-up Time         Version           58         Network Camera         Active         1C:C3:16:24:60:F6         192:168.7.80         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-11         40.70.67-f6           59         Network Camera         Active         1C:C3:16:22:0C:74         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C8262-FPB         2019-03-11         43.70.68           60         Network Camera         Active         1C:C3:16:23:06:4D         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C8262-FPB         2019-03-01         43.70.68           61         MS-C2975-PB         Active         1C:C3:16:24:60:DE         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2962-FPB         2019-03-01         40.70.69           62         Network Camera         Active         1C:C3:16:24:00:DE         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         2019-03-01         40.70.69           63         Network Camera         Active         1C:C3:16:24:5F:53         192:168.
No.         Device Name         Status         MAC         IP         Port         Netmask         Gateway         Model         Run-up Time         Version           58         Network Camera         Active         1C:C3:16:24:60:F6         192:168.7.80         80         255:255:240.0         192:168.7.1         MS-C2975-PB         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         14:14:32         2019-03-11         13:40/07         43:7.0.68           59         Network Camera         Active         1C:C3:16:22:0C:74         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C2975-PB         13:40/07         43:7.0.68           61         MS-C2975-PB         Active         1C:C3:16:22:00:EF         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-06         01:7.0.67+           63         Network Camera         Active         1C:C3:16:21:E:C:5A         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2972-FPB         01:40:04         01:0.68+           64         MS-C2964-FPB         Active         1C:C3:16:24:09:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2975-EPB <th>No.         Device Name         Status         MAC         IP         Port         Netmask         Gateway         Model         Run-up Time         Version           58         Network Camera         Active         1C:C3:16:24:60:F6         192:168.7.80         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-11         43.7.0.68           59         Network Camera         Active         1C:C3:16:22:0C:74         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C2926-FPB         2019-03-01         43.7.0.68           60         Network Camera         Active         1C:C3:16:23:08:4D         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C2975-FB         41.7.0.67-11         0.83.237           61         MS-C2975-FB         Active         1C:C3:16:20:00:EF         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2976-FB         2019-03-06         0.7.0.68-13           62         Network Camera         Active         1C:C3:16:24:09:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2976-FB         2019-03-07         0.7.0.68-13           63         Network Camera         Active         1C:C3:16:24:09:D2         192:</th>	No.         Device Name         Status         MAC         IP         Port         Netmask         Gateway         Model         Run-up Time         Version           58         Network Camera         Active         1C:C3:16:24:60:F6         192:168.7.80         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-11         43.7.0.68           59         Network Camera         Active         1C:C3:16:22:0C:74         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C2926-FPB         2019-03-01         43.7.0.68           60         Network Camera         Active         1C:C3:16:23:08:4D         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C2975-FB         41.7.0.67-11         0.83.237           61         MS-C2975-FB         Active         1C:C3:16:20:00:EF         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2976-FB         2019-03-06         0.7.0.68-13           62         Network Camera         Active         1C:C3:16:24:09:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2976-FB         2019-03-07         0.7.0.68-13           63         Network Camera         Active         1C:C3:16:24:09:D2         192:
58         Network Camera         Active         1C:C3:16:24:60:F6         192:168.7.80         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-11         40.7.0.67-4           59         Network Camera         Active         1C:C3:16:22:0C:74         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C2975-PB         134:07         43.7.0.68           60         Network Camera         Active         1C:C3:16:22:0C:74         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-08         41.7.0.67-4           61         MS-C2975-PB         Active         1C:C3:16:22:00:EF         192:168.7.93         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-06         41.7.0.67-4           63         Network Camera         Active         1C:C3:16:21:EC:5A         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2972-FPB         09:34.45         41.7.0.67-4           64         MS-C2964-FPB         Active         1C:C3:16:24:09:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2975-EPB         09:34.42         40.7.0.68+           65         Network Camera         Active         1C:C	58         Network Camera         Adive         1C:C3:16:24:60:F6         192:168.7.80         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-11 14:14:32         40.7.0.67-16           59         Network Camera         Adive         1C:C3:16:22:0C:74         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C2926-FPB         2019-03-01 2019-03-01         13:40:07         43:7.0.68           60         Network Camera         Adive         1C:C3:16:23:08:4D         192:168.7.86         80         255:255:240.0         192:168.7.1         MS-C2975-FB         2019-03-01 2019-03-01         43:7.0.67+16           61         MS-C2975-FB         Adive         1C:C3:16:24:00:DE         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2975-FB         2019-03-01         40:7.0.67+16           62         Network Camera         Adive         1C:C3:16:24:00:DE         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2975-FB         2019-03-07         09:34.45         07:0.68+3           63         Network Camera         Adive         1C:C3:16:24:09:D2         192:168.7.11         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         09:34.42         07:0.69+12
59         Network Camera         Active         1C:C3:16:22:0C:74         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C8262-FPB         2019-03-11 13:807         437.0.68           60         Network Camera         Active         1C:C3:16:23:06:4D         192:168.7.93         80         255:255:240.0         192:168.7.1         MS-C2975-PB         Active         1C:C3:16:24:60:DE         192:168.7.93         80         255:255:240.0         192:168.7.1         MS-C2975-PB         Active         1C:C3:16:20:00:EF         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2975-PB         Active         1C:C3:16:20:00:EF         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-06         017.0.67+           63         Network Camera         Active         1C:C3:16:21:EC:5A         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2972-FPB         2019-03-06         017.0.67+           64         MS-C2964-FPB         Active         1C:C3:16:24:69:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2975-EPB         2019-03-01         09:3.44         40.7.0.68+           65         Network Camera         Active         1C:C3:16:24:69:D2	59         Network Camera         Adive         1C:C3:16:22:0C:74         192:168.7.81         80         255:255:240.0         192:168.7.1         MS-C8262-FPB         2019-03-11         13:4007           60         Network Camera         Adive         1C:C3:16:23:02:40         192:168.7.86         80         255:255:240.0         192:168.7.1         MS-C8262-FPB         2019-03-08         41.7.0.67-11           61         MS-C2975-PB         Adive         1C:C3:16:24:60:DE         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-06         41.7.0.67-11           62         Network Camera         Adive         1C:C3:16:24:60:DE         192:168.7.100         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-07         03:16:00         09:34.45         2019-03-07         03:16:00         40:7.0.67-11           63         Network Camera         Adive         1C:C3:16:24:09:D2         192:168.7.11         80         255:255:240.0         192:168.7.1         MS-C2964:FPB         2019-03-07         03:16:00         40:7.0.67-11           64         MS-C2964:FPB         Adive         1C:C3:16:24:0F:53         192:168.7.11         80         255:255:240.0         192:168.7.1         MS-C2964:FPB         2019-03-11
60         Network Camera         Adtwe         1C:C3:16:23:C8:4D         192:168.7.68         80         255:255:240.0         192:168.7.1         MS-C5362-EPB         2019-03-08 03:257         2019-03-08 03:3257         2019-03-08 03:3257         2019-03-06 03:34.5         41.7.0.67-r           61         MS-C2975-PB         Adive         1C:C3:16:20:00:EF         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2962-FPB         2019-03-06         00:344.5         41.7.0.67-r           63         Network Camera         Adive         1C:C3:16:21:EC:5A         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2972-FPB         2019-03-07         01:6.00         40.7.0.68-r           64         MS-C2964-FPB         Adive         1C:C3:16:24:5F:53         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2975-EPB         2019-03-07         01:6.06         40.7.0.68-r           65         Network Camera         Adive         1C:C3:16:21:FA:67         192:168.7.118         80         255:255:250         192:168.7.2 <t< td=""><td>60         Network Camera         Active         1C:C3:16:23:C8:4D         192:168.7.86         80         255:255:240.0         192:168.8.2         MS-C5362-EPB         2019-03-08 08:32:57         41.70.67-11           61         MS-C2975-PB         Active         1C:C3:16:24:60:DE         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-08 08:32:57         41.70.67-11           62         Network Camera         Active         1C:C3:16:20:00:EF         192:168.7.100         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-06 09:34.45         41.70.67-11           63         Network Camera         Active         1C:C3:16:20:00:EF         192:168.7.100         80         255:255:240.0         192:168.7.1         MS-C2976-PB         2019-03-07         40.70.68-13           64         MS-C2964-FPB         Active         1C:C3:16:24:09:D2         192:168.7.11         80         255:255:240.0         192:168.7.1         MS-C2976-FPB         2019-03-11         40.70.68-13           65         Network Camera         Active         1C:C3:16:24:5F:53         192:168.7.11         80         255:255:240.0         192:168.7.1         MS-C2975-FPB         10:35:34         40.70.69-12           66         MS-C3772-FIPB</td></t<>	60         Network Camera         Active         1C:C3:16:23:C8:4D         192:168.7.86         80         255:255:240.0         192:168.8.2         MS-C5362-EPB         2019-03-08 08:32:57         41.70.67-11           61         MS-C2975-PB         Active         1C:C3:16:24:60:DE         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-08 08:32:57         41.70.67-11           62         Network Camera         Active         1C:C3:16:20:00:EF         192:168.7.100         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-06 09:34.45         41.70.67-11           63         Network Camera         Active         1C:C3:16:20:00:EF         192:168.7.100         80         255:255:240.0         192:168.7.1         MS-C2976-PB         2019-03-07         40.70.68-13           64         MS-C2964-FPB         Active         1C:C3:16:24:09:D2         192:168.7.11         80         255:255:240.0         192:168.7.1         MS-C2976-FPB         2019-03-11         40.70.68-13           65         Network Camera         Active         1C:C3:16:24:5F:53         192:168.7.11         80         255:255:240.0         192:168.7.1         MS-C2975-FPB         10:35:34         40.70.69-12           66         MS-C3772-FIPB
61       MS-C2975-PB       Active       1C:C3:16:24:60:DE       192.168.7.93       80       255.255.240.0       192.168.7.1       MS-C2975-PB       2019-03-01       163.80.3       2019-03-06       417.0.67-09         62       Network Camera       Active       1C:C3:16:20:00:EF       192.168.7.10       80       255.255.240.0       192.168.7.1       MS-C2975-PB       2019-03-06       40.7.0.69         63       Network Camera       Active       1C:C3:16:21:EC:5A       192.168.7.10       80       255.255.240.0       192.168.7.1       MS-C2972-FPB       2019-03-07       40.7.0.69         64       MS-C2964-FPB       Active       1C:C3:16:24:09:D2       192.168.7.11       80       255.255.240.0       192.168.7.1       MS-C2974-FPB       2019-03-07       40.7.0.694         65       Network Camera       Active       1C:C3:16:24:09:D2       192.168.7.113       80       255.255.250.0       192.168.7.1       MS-C2975-EPB       2019-03-11       10.7.0.694         66       MS-C3772-FIPB       Active       1C:C3:16:21:FA:67       192.168.7.128       80       255.255.250.0       192.168.7.2       MS-C3772-FIPB       2019-03-17       10.14.26       41.7.0.694         67       Network Camera       Active       1C:C3:16:19:00:6E       192.168.7.19	61         MS-C2975-PB         Active         1C:C3:16:24:60.DE         192:168.7.93         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-11 16:380.3         40.7.0.69           62         Network Camera         Active         1C:C3:16:24:00.DE         192:168.7.100         80         255:255:240.0         192:168.7.1         MS-C2975-PB         2019-03-06 09:34.45         417.0.67-14           63         Network Camera         Active         1C:C3:16:21:EC:5A         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2962+FPB         2019-03-07 09:16:00         40.7.0.69-12           64         MS-C2964-FPB         Active         1C:C3:16:24:09:D2         192:168.7.11         80         255:255:240.0         192:168.7.1         MS-C2975-EPB         407.0.68-17           65         Network Camera         Active         1C:C3:16:24:09:D2         192:168.7.11         80         255:255:240.0         192:168.7.1         MS-C2975-EPB         407.0.68-17           66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.12         80         255:255:240.0         192:168.7.2         MS-C3772-FIPB         417.0.67-a4           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.19 </td
62         Network Camera         Active         1C:C3:16:20:00:EF         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2862-FPB         2019-03-06 09:3445         417.0.67-r 2019-03-11           63         Network Camera         Active         1C:C3:16:21:EC:5A         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         2019-03-01 09:3445         417.0.67-r 2019-03-11           64         MS-C2964-FPB         Active         1C:C3:16:24:09:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         2019-03-11         00:3.442         00.70.68-r           65         Network Camera         Active         1C:C3:16:24:5F:53         192:168.7.113         80         255:255:250.0         192:168.7.1         MS-C2964-FPB         2019-03-11         00.70.68-r           66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.128         80         255:255:250.0         192:168.7.2         MS-C3772-FIPB         2019-03-11         10.70.68-r           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.128         80         255:255:250.0         192:168.7.1         MS-C3672-FIPB         2019-03-11         10.70.68-r	62         Network Camera         Active         1C:C3:16:20:00:EF         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2862-FPB         2019-03-06 09:3445         41.7.0.67-14           63         Network Camera         Active         1C:C3:16:21:EC:5A         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         2019-03-07 09:1600         40.7.0.68-13           64         MS-C2964-FPB         Active         1C:C3:16:24:09:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         2019-03-07 09:1600         40.7.0.69-12           65         Network Camera         Active         1C:C3:16:24:09:D2         192:168.7.113         80         255:255:250.0         192:168.7.1         MS-C2976-FPB         2019-03-11         40.7.0.69-12           66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.12         80         255:255:250.0         192:168.7.2         MS-C3772-FIPB         2019-03-11         40.7.0.69-12           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.12         80         255:255:250.0         192:168.7.2         MS-C3772-FIPB         2019-03-11         41.7.0.67-a4           68         Network Ca
63         Network Camera         Adtve         1C:C3:16:21:EC:5A         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2972-FPB         2019-03-07 09:16:00         40.7.0.68-1           64         MS-C2964-FPB         Adtve         1C:C3:16:24:09:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         2019-03-07 09:16:00         40.7.0.68-1           65         Network Camera         Adtve         1C:C3:16:24:5F:53         192:168.7.113         80         255:255:240.0         192:168.7.1         MS-C2975-EPB         2019-03-07 15:35:34         40.7.0.68-1           66         MS-C3772-FIPB         Adtve         1C:C3:16:21:FA:67         192:168.7.128         80         255:255:250.0         192:168.7.2         MS-C3772-FIPB         10:14:26         10:7.069-1           67         Network Camera         Adtve         1C:C3:16:19:00:6E         192:168.7.128         80         255:255:250.0         192:168.7.2         MS-C3772-FIPB         2019-03-11         10:14:26           68         Network Camera         Adtve         1C:C3:16:11:02:40         192:168.7.190         80         255:255:250.0         192:168.7.1         NC3263-PNA         117:0.67-6           7019-02:7         10:14:26         12:04:04:04:04:04:04	63         Network Camera         Active         1C:C3:16:21:EC:5A         192:168.7.10         80         255:255:240.0         192:168.7.1         MS-C2972-FPB         2019-03-07 08:16:00         40.70.68-13           64         MS-C2964-FPB         Active         1C:C3:16:24:09:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         2019-03-11 09:34:42         40.70.68-13           65         Network Camera         Active         1C:C3:16:24:5F:53         192:168.7.113         80         255:255:240.0         192:168.7.1         MS-C2975-EPB         2019-03-11 15:35:34         40.70.68-17           66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.12         80         255:255:250.0         192:168.7.2         MS-C3772-FIPB         2019-03-07         10.70.69-12           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.12         80         255:255:240.0         192:168.7.2         MS-C3772-FIPB         2019-03-07         10.70.69-42           68         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.19         80         255:255:250.0         192:168.7.1         NC:3263-PNA         2019-03-11         10.71.63-42         2019-01-10         10.77.21 <td< td=""></td<>
64         MS-C2964-FPB         Active         1C.C3:16:24:09:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         2019-03-11 09:34.42         2019-03-11 09:34.42         2019-03-11 09:34.42         2019-03-11 15:35:34         40.7.0.69-4           65         Network Camera         Active         1C:C3:16:24:5F:53         192:168.7.113         80         255:255:250         192:168.7.1         MS-C2975-EPB         15:35:34         40.7.0.69-4           66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.128         80         255:255:250         192:168.7.2         MS-C3772-FIPB         10:14:26         2019-03-11         10:7.0.69-4           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.129         80         255:255:240.0         192:168.7.2         MS-C3772-FIPB         10:14:26         2019-03-11         0:7.163-72           67         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.190         80         255:255:255.0         192:168.7.1         NG:263-PNA         2019-02-27         2019-02-27         2019-02-27         30:7.163-72         30:7.163-72         30:7.163-72         30:7.163-72         30:7.163-72         30:7.163-72         30:7.163-72         30:7.163-7	64         MS-C2964-FPB         Active         1C:C3:16:24:09:D2         192:168.7.110         80         255:255:240.0         192:168.7.1         MS-C2964-FPB         2019-03-11 09:34:42         40.70.69-12 2019-03-11           65         Network Camera         Active         1C:C3:16:24:5F:53         192:168.7.113         80         255:255:240.0         192:168.7.1         MS-C2975-EPB         2019-03-11 15:35:34         40.70.69-12           66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.128         80         255:255:240.0         192:168.7.2         MS-C3772-FIPB         40.70.69-12           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.129         80         255:255:240.0         192:168.7.2         MS-C3772-FIPB         41.70.69-12           68         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.19         80         255:255:250.0         192:168.7.1         NG-263:6PB         2019:03-11 09:14:09         30.7.1.63:420           68         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.190         80         255:255:250.0         192:168.7.1         NG:263:PNA         2019:01-10 11:07:21         30.7.1.63:420           78754         Semelic         Semelic
65         Network Camera         Active         1C:C3:16:24:5F:53         192:168.7.113         80         255:255:240.0         192:168.7.1         MS-C2975-EPB         2019-09-11         15:35:34         40.7.0.68-7           66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.128         80         255:255:255.0         192:168.7.2         MS-C3772-FIPB         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-09-07         10:14:26         2019-01-0         10:7.1.63-7         03:7.1.63-7         03:7.1.63-7         10:7.1.63-7         2019-02-27         2019-02-27         2019-02-27         2019-02-27         2019-02-27         2019-02-27         2019-02-27         2019-02-27         10:7.1.63-7         10:7.1.63-7         10:7.1.63-7         10:7.1.63-7         10:7.1.63-7         10:7.1.63-7         10:7.1.63-7         10:7.1.63-7         10:7.1.63-7         10:7.1.63-7         10:7.1.63-7         10:7.1.63-7	65         Network Camera         Active         1C:C3:16:24:5F:53         192:168.7.113         80         255:255:240.0         192:168.7.1         MS-C2975-EPB         2019-03-11         40.70.68-77           66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.128         80         255:255:250.0         192:168.7.2         MS-C3772-FIPB         2019-03-07         41.70.69-72           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.129         80         255:255:250.0         192:168.7.2         MS-C5364-PB         2019-03-07         41.70.67-34           68         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.19         80         255:255:255.0         192:168.7.1         NC3263-PNA         2019-03-11         41.70.67-34           68         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.19         80         255:255:255.0         192:168.7.1         NC3263-PNA         2019-03-10         10:71.63-20           69         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.190         80         255:255:255.0         192:168.7.1         NC3263-PNA         2019-02-27         2019-02-27           70754         1000         1000 <t< td=""></t<>
66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.128         80         255:255.255.0         192:168.7.2         MS-C3772-FIPB         2019-03-07         10:14:26         417.0.69-1           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.128         80         255:255:250.0         192:168.7.2         MS-C3772-FIPB         2019-03-07         10:14:26         417.0.69-1           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.129         80         255:255:250.0         192:168.7.1         MS-C5364-PB         09:14:09         09:14:09         09:14:09         2019-01-10         10:72:1         2019-01-10         10:72:1         2019-02-27 <td>66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.128         80         255:255:255.0         192:168.7.2         MS-C3772-FIPB         2019-03-07 10:1428         41.70.69-12           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.129         80         255:255:255.0         192:168.7.2         MS-C3772-FIPB         2019-03-07 10:1428         41.70.69-12         2019-03-01         09:14:09         2019-03-01         09:14:09         2019-01-10         30:7.16.3-20           68         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.19         80         255:255:255.0         192:168.7.1         NC3263-PNA         2019-01-10         30:7.1.63-20           707-74         10         10:02:100:100         10:02:100:100         10:02:100:100         10:02:100         2019-02-27         2019-02-27           707-74         10:02:100:100         10:02:100:100         10:02:100         10:02:100         10:02:100         2019-02-27         2019-02-27           707-74         10:02:100:100         10:02:100         10:02:100         10:02:100         10:02:100         10:02:100         10:02:100           707-74         10:02:100:100         10:02:100:100         10:02:100:100         10:02:100         &lt;</td>	66         MS-C3772-FIPB         Active         1C:C3:16:21:FA:67         192:168.7.128         80         255:255:255.0         192:168.7.2         MS-C3772-FIPB         2019-03-07 10:1428         41.70.69-12           67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.129         80         255:255:255.0         192:168.7.2         MS-C3772-FIPB         2019-03-07 10:1428         41.70.69-12         2019-03-01         09:14:09         2019-03-01         09:14:09         2019-01-10         30:7.16.3-20           68         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.19         80         255:255:255.0         192:168.7.1         NC3263-PNA         2019-01-10         30:7.1.63-20           707-74         10         10:02:100:100         10:02:100:100         10:02:100:100         10:02:100         2019-02-27         2019-02-27           707-74         10:02:100:100         10:02:100:100         10:02:100         10:02:100         10:02:100         2019-02-27         2019-02-27           707-74         10:02:100:100         10:02:100         10:02:100         10:02:100         10:02:100         10:02:100         10:02:100           707-74         10:02:100:100         10:02:100:100         10:02:100:100         10:02:100         <
67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.129         80         255:255:240.0         192:168.7.2         MS-C5364-PB         2019-03-11 09:14:09         2019-03-11 09:14:09         100:14:09           68         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.190         80         255:255:255:0         192:168.7.1         NC3263-PNA         2019-01-10 11:07:21         30.7.1.63-r           68         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.190         80         255:255:255:0         192:168.7.1         NC3263-PNA         2019-02:-07         2019-02:-27           68         Network Camera         Active         10:00:00:00         10:00:00:00         00:00:00:00         2019-02:-27         2019-02:-27         2019-02:-27           68/254         Same IP         Start IR:         192:168.7.100         Port:         80         Netmasic (255:255:240.0)         Gateway:         192:168.7.1         DNS:         68:8:8:8:8	67         Network Camera         Active         1C:C3:16:19:00:6E         192:168.7.129         80         255:255:240.0         192:168.7.2         MS-C5364-PB         2019-03-11 09:1409         09:14:09           68         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.190         80         255:255:255.0         192:168.7.1         NC3263-PNA         2019-01-10 11:07:21         30.7.1.63-20           7/654         Same IP         Start IP:         192:168.7         100         Porte 60         Netmask:         255:255:240.0         Gateward         192:168.7         100         NE:         100<
68         Network Camera         Active         1C:C3:16:11:02:40         192:168.7.190         80         255:255:255:0         192:168.7.1         NC3263-PNA         2019-01-10         10:72:11         30:7.163-r           10         11         11:07:21         10:07:21         10:07:21         20:19:02:27	68 Network Camera Active 1C:C3:16:11:02:40 192:168.7.190 80 255:255:255.0 192:168.7.1 NC3263-PNA 2019-01-10 30.7.1.63-20 11:07:21 2019-02-27 200-02-27 20
5/354 🕞 Same IP. Start IP: (192.168.7 .100) Port: (80) Netmask: (255.255.240.0) Gateway: (192.168.7 .1) DNS: (8.88.8	5/854 Same IP Start IP 192 168 7 100 Port 80 Netmask 255 255 240.0 Gateway 192 168 7 1 DNS 8 8 8 8
🕢 Activate 🛓 Export Device List 💥 🕷	G) Activate 🛓 Export Device List 🗙 Mo
Iperating Information	operating Information

Select multiple cameras

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

	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	Į
3	58	Network Camera	Active	1C:C3:16:24:60:F6	192.168.7.80	80	255.255.240.0	192.168.7.1	MS-C2975-PB	2019-03-11 14:14:32	40.7.0.67-r6	
-	59	Network Camera	Active	1C:C3:16:22:0C:74	192.168.7.81	80	255.255.240.0	192.168.7.1	MS-C8262-FPB	2019-03-11 13:49:07	43.7.0.68	
	60	Network Camera	Active	1C:C3:16:23:C8:4D	192.168.7.86	80	255.255.240.0	192.168.8.2	MS-C5362-EPB	2019-03-08 08:32:57	41.7.0.67-r1	
-	61	MS-C2975-PB	Active	1C:C3:16:24:60:DE	192. <mark>1</mark> 68.7.93	80	255.255.240.0	192.168.7.1	MS-C2975-PB	2019-03-11 16:38:03	40.7.0.69	
	62	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-03-06 09:34:45	41.7.0.67-r14	
	63	Network Camera	Active	1C:C3:16:21:EC:5A	192.168.7.105	80	255.255.2 <mark>40</mark> .0	192.168.7.1	MS-C2972-FPB	2019-03-07 09:16:00	40.7.0.68-r3	
-	64	MS-C2964-FPB	Active	1C:C3:16:24:09:D2	192.168.7.110	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-03-11 09:34:42	40.7.0.69-r2	
	65	Network Camera	Active	1C:C3:16:24:5F:53	192.168.7.113	80	255.255.240.0	192.168.7.1	MS-C2975-EPB	2019-03-11 15:35:33	40.7.0.68-r7	
2	66	MS-C3772-FIPB	Active	1C:C3:16:21:FA:67	192.168.7.128	80	255.255.255.0	192.168.7.2	MS-C3772-FIPB	2019-03-07 10:1 <mark>4:2</mark> 6	41.7.0.69-r2	
	67	Network Camera	Active	1C:C3:16:19:00:6E	192.168.7. <mark>1</mark> 29	80	255.255.240.0	192.168.7.2	MS-C5364-PB	2019-03-11 09:14:09	41.7.0.67-a4	
-	68	Network Camera	Active	1C:C3:16:11:02:40	192.168.7.190	80	255.255.255.0	192.168.7.1	NC3263-PNA	2019-01-10 11:07:21 2019-02-27	30.7.1.63-r20	
	. (	Device Name: <mark>(letwo</mark>	rk Camer	a IP: 192.168.7 .	100 Port 80	)	Netmask: 25	5.255.240.0	Gateway: 192.1	168.7 .1 DN	S 8.8.8	
nera								Q	🧿 Activate 🛃	Export Device Li	st 🔀 Moo	li
1000												ï

If the selected camera shows "Inactive" in the status bar(Camera with version V4x.7.0.69 or

above), click *Operativation* to set the password when using it for the first time. You can also set the security questions when activating the camera in case that you forget the password(You can reset the password by answering three security questions correctly). Click 'Save' and it will show that the activation was successful.

Note:

O Milesight

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

		0				-0		- 9		🛓 (adm	in 🌣 — 🗆	
		IPC Too	s							A Pas Q Sea	sword rch here	
		No. Device 1	lame Status	MAC	IP 🔺	Port N	letmask	Gateway	Model	Run-up Time	Version	
		59 Network C	amera Inactive	1C:C3:16:24:09:D2	192.168.5.190	80 255.	255.255.0	192.168.5.1	MS-C2964-FPB	2018-12-19 17:48:04	40.7.0.65-pwd- a6	6
۱I		C CO Network		10.03.40.04.00.00	400 400 7 74	-00 -055	055.040.0	100 168.7.1	MS-C3762-FIPB	2018-12-21 17:43:15	41.7.0.65-pwd- a6	0
21	IDC Tools			Activation				168.5.1	MS-C4472-FIPB	2018-12-24 15:00:51	41.7.0.68-a6	C
	11-0 10015							168.7.1	MS-C2975-PB	2018-12-24 17:02:43	40.7.0.68	C
щ		0						168.7.1	MS-C5362-EPB	2018-12-18 16:10:37	41.7.0.65-pwd- a6	6
- 1		9					_	168.2.1	MS-C2862-FPB	2018-12-21 16:44:30	41.7.0.68-a6	6
- 1		User Name:	admin					168.5.1	MS-C2963-PB	2018-12-18 13:38:35	40.7.0.67-r21	G
- 1		Password:					_	168.7.1	MS-C2972-FPB	2018-12-20 13:27:14	40.7.0.67-r10	C
- 1		Confirm:	ortion				_	168.7.1	MS-C5372-FIPB	2018-12-18 22:18:58	41.7.0.67-ptz- dome-a6	C
- 1		Security Question 1:	What's your fath	ar's nama?			-	168.7.2	MS-C3772-FIPB	2018-06-15 17:10:58	41.7.0.65-r4	C
- 1	NVR Tools	Security Answer 1:	(					168.7.1	MS-C4482-PB	2018-12-20 16:15:03	41.7.0.65-pwd- a6	C
- 1		Security Question 2:	What's your fath	ier's name?			-			2019 07 04		-
- 1		Security Answer 2:	(					255.0	Gateway: 192.1	68.5 .1 DI	8.8.8.8	
- 1		Security Question 3:	What's your fath	ier's name?			-	6	Activate	) Export Device L	ist 🗶 Modi	
- 1		Security Answer 3:	(									
- 1	(+)								(2)			
- 1												
- 1	Calculators					0						
- 1						(4)	<b>O</b> 5	ave		😐) Sa	ve 🙁 Ciear	
- 1						V2 4 0 1-	28					

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

Step5: Change the IP address successfully;

Milesight

10	t.				×)	— (	)——	- 6			Ø –	n x
19		C Tools		letwork		Pr		Upgrade		କି 12: ପ୍ Sec	arch here	
	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
r	58	Network Camera	Active	1C:C3:16:90:81:5E	192.168.7.92	80	255.255.240.0	192.168.7.1	NC9674-PB	2019-09-24 17:36:18	43.7.1.72	6
C	59	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-09-23 14:06:52	41.7.0.72-a5	6
C	60	Network Camera	Active	1C:C3:16:21:00:22	192.168.7.104	80	255.255.240.0	192.168.7.1	MS-C2962-FIPB	2019-09-02 03:22:14	40.7.0.69-r11	6
	61	Network Camera	Active	1C:C3:16:24:09:	192.168.7.114	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-09-30 08:55:39	40.7.0.72	C
C.	62	Network Camera	Active	1C:C3:16:23:01:39	192.168.7.124	80	255.255.240.0	192.168.9.2	MS-C2962-FPB	2019-09-26 08:28:26	41.7.0.71-r35	6
0	63	IPCAM	Active	1C:C3:16:21:FA:67	192.168. <mark>7.</mark> 132	80	255.255.255.0	192.168.5.1	MS-C3772-FIPB	2019-09-27 11:25:49	41.7.0.71-r15	0
C	64	Network Camera	Active	1C:C3:16:24:66:A1	192.168.7.161	80	255.255.240.0	192.168.5.1	MS-C2962-FPB	2019-09-26 09:46:16	40.7.0.71-r8	6
0	65	Network Camera	Active	1C:C3:16:22:19:6F	192.168.7.201	80	255.255.240.0	192.168.7.1	MS-C9674-PB	2019-09-17 11:20:43	43.7.0.72-fsh- autotrack-a2	6
r	66	Network Camera	Active	1C:C3:16:22:01:0B	192.168.7.202	4200	255.255.240.0	192.168.7.2	MS-C9674-PB	2019-07-31 23:53:33	42.7.0.67-r1	6
0	67	202大会议室1	Active	1C:C3:16:21:01:10	192.168.7.212	80	255.255.240.0	192.168.7.1	MS-C2972-FPB	2019-09-25 14:19:04	40.7.0.71-r15	6
C	<u>60</u>	2001十个小学2	Activo	10-02-16-01-00-	102 169 7 214	00	255 255 240 0	102 169 7 1	MS C2072 PB	2019-09-26	40 7 0 71 -15	6
1/386		evice Name: etwor	k Camer	a) IP: 192.168.7	.114) Port 80		Netmask: 25	5.255.240.0	Gateway: 192.1	68.7 .1 DN	8.8.8.8	-
								G	) Activate	Export Device Li	at 🗶 Modi	fv
Operat								6			. <u>S</u>	
1	2019	9-09-30 09:10:53		[	1C:C3:16:24:09:D2	] Modi	fy IP:192.168.7.11	3->192.168.7.1	14 successfully.			
										🕒 Sav	e 🛞 Clear	
						V2.4						

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

Language: [Inglish *
Milesight
User Name Password
Remember me? Forget Password?
Login 👗
Download Plugin for Network Camera Copyright © Milesight All rights reserved.

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);

neral	
ou can get IP settings assign is capability. Otherwise, you or the appropriate IP setting: Obtain an IP address au	ed automatically if your network supports a need to ask your network administrator s, tomatically
Ose the following IP adds     P address:	192 . 168 . 1 . 10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.1.1
<ul> <li>Obtain DNS server addre</li> <li>Use the following DNS server:</li> <li>Preferred DNS server:</li> <li>Alternate DNS server:</li> </ul>	rver addresses: 192 . 168 . 1 . 1 
	wit

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);

IP addresses	WINS		
IP address		Subnet mask	
192.168.1.10		255.255.255.0	
	Add	Edit	Remove
Default gateways:			
Gateway		Metric	
192.168.1.1		Automatic	
Automatic metric	c		
Automatic metric	c		
Automatic metric Interface metric:	c	  	Cancel
Automatic metric Interface metric: P/IP Address	c	  	Cancel
P/IP Address P address:	192	ок	Cancel
Interface metric:         P/IP Address         P address:         Subnet mask:	192	ок . 168 . 5 . б . 255 . 255 .	Cancel

- Step2: Start the browser. In the address bar, enter the default IP address of the camera: http://192.168.5.190;
- Step3: If the camera's firmware version is lower than V4x.7.0.69, it will directly display the login page, enter the user name and password when the LOGIN page appears; Default user name: admin

Default password: ms1234

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

#### Note:

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

		Language: English *
	Security Question Setting	
	Question1: [What's your father's name?	
Dor Copyrig	veload Plugin for Network Camera In C. Milesight All rights reserved.	

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

Miles	ight Network Cam	era										4	admin 🗗 Logout
0	Milesight	Basic Se	ettings >>	Network									
-	Live Video	TCP/IP	HTTP	RTSP	UPnP	DDNS	Email FTP	VLAN	PPPoE SNMP	802.1x			
	Playback						O Get IPv4 addr	ess automatica	lly				
ter.	Local Settings						Use fixed IPv4	4 address					
							IP Address:		192. 168. 7	. 200 Test			
٥	Basic Settings						IPv4 Subnet M	alaway	255. 255. 240	1			
	Video						Preferred DNS	Server:	8.8.8	. 8			
	Image						IPv6 Mode:		Manual	~			
	Network						IPv6 Address:						
	Date & Time						IPv6 Prefix:						
ď	Advanced Settings						IPv6 Default G	Sateway:					
	System								Save				
Ø	Maintenance												

Step5: Change the IP address or other network values. Then click "Save" button; Step6: The change of default IP address is completed.

## 3.2 Accessing from the Web Browser

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

## 3.2.1 Access with Plugin

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

#### Access over IE Browser

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

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

Step2: Enter the User Name and Password and click "Login";

Step3: At the first time to log in the device, the browser will prompt to install Controls, please click "Click here to download and install controls manually" as shown in the figure below;

Click here to download and install controls manually

#### Note:

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

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





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

Step1: Start the IE9 or higher version browser, and select "Tools"  $\rightarrow$  "Internet Options";



Figure 3-2-3 To add the permission

Step2: Select "Security" to "Trusted";



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



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



## 3.2.2 Access without Plugin

As browser security becomes more and more important, some browsers don't support installing plugin. In order to normally preview the video on the browser, Milesight upgraded the camera to support Plugin-Free Mode. In Plugin-Free Mode, you can preview the video on the browser without plugin. Currently Plugin-Free Mode is supported in Firefox & Google Chrome & Safari & Edge browser for Windows system, MAC system, iOS system and Android system. Both H.265&H.264 video codec are supported in Plugin-Free Mode for camera, and it will play the secondary stream by default.

#### Note:

1) You need to upgrade camera to V4x.7.0.70 or above to use Plugin-Free Mode.

2) For the firmware which below V4x.7.0.74, please upgrade the Network Camera to V4x.7.0.74 or above (Please upgrade the browser to the latest version).

3) For V4x.7.0.74 or above, you can enjoy Plugin-Free Mode without any configuration about the browser (Please upgrade the browser to the latest version).

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



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

# 3.3 Accessing from Milesight VMS (Video Management Software)

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

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



# **Chapter IV System Operation Guide**

## 4.1 Live Video

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



## 4.1.1 Operations on Live View Page

No.	Parameter	Description
1	PTZ Control	Navigation key is used to control the direction. The rotation key is used for auto-rotation.
	<b>5</b>	To adjust the speed of pan/tilt movements, from 1 to 10
	PTZ Speed	
2	** *	Click to zoom in and zoom out
3		Click to focus near or far of the lens.

Table 4-1-1 Description of the buttons

4	o 🏿 📀	Lens Initialization, Auxiliary Focus and Auto Iris
		Lighting For 30s: Click to open/ close the White LED for lighting 30s.
5	* 💿 0 🔽	<b>3D Positioning:</b> Click to enable/ disable 3D positioning.
		One-touch Patrol: Click to carry out the patrol.
		Auto Home: Click to enable Auto Home.
	Image Config	Brightness: Drag to adjust brightness of the image.
	50	<b>Contrast:</b> Drag to adjust color and light contrast.
-	D	Saturation: Drag to adjust color saturation of the image.
00		<b>Sharpness:</b> Drag to enhance the detail of the image by sharpening the edges in the image.
	→~	2D DNR/3D DNR: Adjust the noise reduction level
		<b>Default:</b> Drag to restore brightness, contrast and saturation to default setup.
8	Configuration	<b>Configuration:</b> Click to access the configuration page.
9	Primary Stream	To choose the Stream <b>(Primary/Secondary/Tertiary</b> ) to be shown on the current video window.
		Web Components: Support Firefox, Safari, Chrome; need to install the component to display the view;
10	Web Components 🔻	<b>MJPEG</b> : Support to display the view on Firefox, Safari, Chrome;
		(NOTE: IE chooses Web Components mode as default. In this case, the options will not appear. )
		TCP: More reliable connection;
11	UDP 🔻	<b>UDP</b> : More instantaneous connection, but if you cannot get the live view successfully, please turn into TCP connection.
		<b>HTTP:</b> Faster and safer connection especially in Internet environment.
		Least Delay: The most instantaneous mode in the three modes:
10	Balancad	Balanced: A balanced mode between Least Delay and
12	Dataticeu	Best Fluency, maintains the fluency while keeps an
		Best Fluency: The most fluent mode in the three modes.
	<b>™</b> AUTO	
13	Window size	Click to display images at a window size.

14	<mark>ی</mark> ۲۵۵% Real size	Click to display images at a real size.
15	Full Screen	Click to display images at full-screen.
16	Recording	When recording, the icon will turn red.
17	<b>O</b> Alarm	When an alarm of Smart Event was triggered, the icon appears
18	<b>_⊰</b> Alarm	When an alarm of Motion Detection was triggered, the icon appears
19	·····································	Except for the two kinds of alarms above, when other alarms were triggered, the icon appears
20		Click to start/stop Live View.
21	Capture	Click to capture the current image and save to the configured path. The default path is C:VMS\+-1\ IMAGE-MANUAL.
22	Start/Stop 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.
23	Play Audio	Click to enable Audio Input/Output. It can also be set in Audio configuration page.
24	Saving Path Settings	Click to set the saving path for captured images and video recordings of operating on the live view.
25	Enable Digital Zoom	When it is enabled, you can zoom in within a specific area of video image via your mouse wheel.
26	Start Talking	When it is enabled, you can start real-time talking.

# 4.1.2 3D Positioning

3D Positioning allows user to use mouse clicking and dragging to control the PTZ. Steps:

1.Click on the toolbar of Live View interface.

2.Operate the 3D positioning function

- Left click a position of the Live View, the corresponding position will be moved to the center of the Live View.
- Hold down the left mouse button and drag the mouse to the lower right or upper right on the Live View, you can see a blue rectangle. The corresponding position will be moved to the center of the Live View and Zoom in.
- Hold down the left mouse button and drag the mouse to the lower left or upper left on the Live View, you can see a blue rectangle. The corresponding position will be moved to the center of the Live View and Zoom out.
- The Bigger the rectangle is, the smaller zoom in/out will be acted.

## 4.1.3 Set / Call a preset / Patrol / Pattern

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;



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 237 presets can be configured (18 presets are not modifiable).

## Calling a preset:

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



The following presets are predefined with special commands. You can only call them but can't configure them. For example, preset 037 is the "Self Check". If you call the preset number 037, the PTZ camera will start self check function at once.

Special Preset	Function	Special Preset	Function
33	Auto Flip(Speed Dome only)	42	Path6
34	Goto Zero	43	Path7
35	Self Check	44	Path8
36	Patrol	45	Pattern1
37	Path1	46	Pattern2
38	Path2	47	Pattern3
39	Path3	48	Pattern4
40	Path4	49	Stop Scan
41	Path5	50	Auto Scan





## 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 **Step1** 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;



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. The PTZ camera moves to another patrol point after the set patrol time.

Step5: Click Save to save the patrol settings.

Note:

- A. Patrol Speed only works in Patrol mode.
- B. Patrol Time should be 15~120s for Mini PTZ Bullet and 0~120s for Speed Dome.

## Call a patrol:

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



<	2	¢	>	Ð		
Θ	Path 1	1	•	۵	×	
0	Path 2	2				
Θ	Path 3	3				
0	Path 4	1				
0	Path 5	5				
0	Path 6	6				

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

### Set / Call a pattern

A pattern is a memorized series of pan, tilt, zoom and preset functions. It can be called on the pattern settings interface. There are up to 4 patterns can be set.

### Set a pattern:

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

Step2: Select a pattern number from the pattern list as shown in the figure below;

Q		Ŷ	Þ		
8	Patte	ern 1	۲		
Ð	Patte	ern 2			
æ	Patte	ern 3			
Ð	Patte	ern 4			

Step3: Click 🔘 to activate recording the panning, tilting and zooming actions;

Step4: Use the PTZ controller buttons to move the lens to the interested position;

Step5: Click 💌 to save all the pattern settings.

#### Note:

The percentage of number on the OSD is the remaining space of pattern. Start with 100% and run out of 0%.

### Call a pattern:

In the PTZ control panel, select a defined pattern from the pattern list, click 🕨 to call the pattern, as shown in the figure below.



Q		$\odot$		Ł	≽
Ŷ	Patte	ern 1	۲	۲	×
Ð	Patte	ern 2			
Þ	Patte	ern 3			
8	Patte	ern 4			

The three button behind the Pattern list means: Play, Record and Delete.

When configuring the pattern, pan and tilt are valid but the limit stops and auto flip will be invalid. Also, 3D Positioning operation is not supported.

## 4.2 Playback

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

Step1:	Click	<b>o<sup>9</sup></b> Configuration	and then click	Playb	on the	e menu bar to	o enter
playba	ck interf	ace;					
N	vilesight Network	k Camera				💄 admin 🕞 Logo	out
1	Milesight	Playback					ī
	Live Video						
	Playback						
	Local Settings						
	Basic Settings						
	e <sup>®</sup> Advanced Settin	igs					
	🕎 System						
	Maintenance						
		19+00 28+00	21:00 22:00 23:0	0 2020-04-25 00:00:00 01:00	02:00 03:00	04:00 05:00 06:	
				2020-04-26 Q 00 00 00 →		o 🖿 🥸 🚦	

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

44 4		Apr		2020			
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
29	30	31	1	2	3	4	
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30	1	2	
3	4	5	б	7	8	9	
				Toda	ay	ОК	

- 1) The date with bright red means current date; one with a dark red number and white background means weekend day; one with a dark red number and blue background means that the date is selected now.
- It supports Plugin-free Playback function which allows to preview the playback without installi ng plugin in Firefox (Version 65 and above) & Google Chrome (Version 69 and above);
   You need to configure the browser properties before using this function. Please refer to 3.2.2
   Access without Plugin for more browser configuration.

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

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



#### 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



# 4.3 Local Settings

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

Miles	ight Network Can	nera			l,	💄 admin 🛛 🕞 Logout
0	Milesight	Local Settings				
	Live Video					
	Playback		Live View Settings			
			Record File Length:	30 minutes V		
-	Local Settings		Record File Path:	C:\\VMS\+-1\MS_Record\ Browse Open		
			Preview Picture Path:	C://VMS/+-1VMAGE-MANU Browse Open		
0	Basic Settings		Playback Settings			
	Video		Playback Record File Path:	C:\\VMS\+-1\Playback\MS_Browse Open		
	Image		Playback Picture Path:	C://VMS\+-1\Playback\IMA/ Browse Open		
	Audio					
	Network			Save		
	Date & Time					
°	Advanced Settings					
	System					
٥	Maintenance					

## **4.4 Basic Settings**

## 4.4.1 Video

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

# **Primary Stream Settings**

Basic Settings >> Video			
Primary Stream Secondary Stream Tertiary Stream			
	Video Codec:	H.265 V	
	Frame Size:	1080P(1920*1080)	
	Maximum Frame Rate:	25 <b>v</b> tps	
	Bit Rate:	4096 🗸 kbps	
	Smart Stream:	On 🗸	
	Level:	5	
	Bit Rate Control:	CBR	
	Profile:	Main 🗸	
	I-frame Interval:	50 frame(1-120)	
		Save	
		20	

## **Secondary Stream Settings**



Basic Settings >

Primary Stream	Secondary Stream	Tertiary Stream		
			Enable:	
			Video Codec:	H.265 ¥
			Frame Size:	640°480 V
			Maximum Frame Rate:	25 V fps
			Bit Rate:	512 kbps
			Smart Stream:	On 🗸
			Level:	5
			Bit Rate Control:	CBR
			Profile:	Main
			I-frame Interval:	50 frame(1-120)
				Save

## **Tertiary Stream Settings**

Enable     It264       Video Codee:     It264       Frame Sizce:     Ie40*44/a       Frame Sizce:     Ie40*44/a       Maximum Frame Rate:     ISIC       BR Fatale:     ISIC24       BR Fatale:     ISIC24       Level:     9       BR Fatale:     ISIR       Profile:     Maximum       Profile:     Maximum	Primary Stream	Secondary Stream	Tertiary Stream			
Video Codec:     11564       Frame Size:     6467480       Maximum Frame Rate:     25       DB R Rate:     1024       Smart Stream:     00       Levet:     0       DB R Table Control:     00R       Profile:     Maan       Profile:     50       Trame Intervat:     50				Enable:	V	
Frame Size:     6464-680       Maximum Frame Rate:     55       Dit Rata:     152.4       Simut Stream:     0m       Lovet     5       Bit Rata:     CBR       Profile:     10m       Profile:     59				Video Codec:	H.264	~
Maximum Frame Rate: 25 √1ps Bit Rate: 1024 √1kbps Smill Stream: Con √ Lovet: 26 27 20 27 20 27 27 27 27 27 27 27 27 27 27				Frame Size:	640*480	~
BR Rate: 1024 Vkps Smart Stream: On V Levet:				Maximum Frame Rate:	25	❤] fps
Smart Stream: Dn v Levet: BR Paio Control: CERH v Profile: Maan v Hame Intervat: 55 frame(1-120)				Bit Rate:	1024	✓ kbps
Level: <u>9</u> Bit Rata Control: CBIR V Profile: Maan V Hrane intervat: 59 frame(1-120)				Smart Stream:	On	~
Bit Rate Control: CBR V Profile: Maan V I-frame Interval: 50 frame(1-120)				Level:		
Profile: Main V I-trame interval: 50 trame(1-120)				Bit Rate Control:	CBR	~
I-frame intervat: 50 trame(1-120)				Profile:	Main	~
Save				I-frame Interval:	50	frame(1-120)
					Save	

#### Table 4-4-1 Description of the buttons

Parameters	Function Introduction			
Video Codec	H.265/H.264/MJPEG are available.			
Frame Size	Options include 5M(2592*1944)(only for 5MP Mini PTZ Bullet and 5MP Speed Dome), 4M(2592*1520)(only for 5MP Mini PTZ Bullet and 5MP Speed Dome), 3M(2304*1296), 1080P(1920*1080), 1.3M(1280*960), 720P(1280*720), D1 (704*576). For Secondary Stream, it includes 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176. For Tertiary Stream, it include 1920*1080, 1280*720, 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176.			
Maximum Frame Rate	It means maximum refresh frame rate of per second.			
Bit Rate	Set the bitrate to 32~16384 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. It is optional to turn On/Off Smart Stream mode. Level: Level 1~10 are available to meet your need.			


	<b>CBR:</b> Constant Bitrate. The rate of CBR output is constant.								
Bit Rate Control	VBR: Variable Bitrate. VBR files vary the amount of output date 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/Base can be selected according to your needs.								
I-frame Interval	Set the I-frame interval to $1^{-120}$ , 50 for the default. The number must be a multiple of the number of frames								
JPEG Quality	Low/Medium/High/Higher are available, this item is optional only if you select the MJPEG								

#### Note:

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

## 4.4.2 Image

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

## **Display**

Miles	sight Network Cam	iera								🙎 admin 🛛 🕒 Logoul
¢	Milesight	Basic S	ettings >> Imag	e						
-	Live Video	Display	Enhancement	Day/Night Mode	OSD	ROI				
	Playback						Network Camina Camina	26/00/2020	4: 28: 02	^
-	Local Settings								E.	
0	Basic Settings								- Andrew	
	Video								Le se	
	Image									
	Audio								Ĩ	
	Network									
	Date & Time						Power Line Frequency:	50Hz	~	
0 <sup>0</sup>	Advanced Settings						Day/Night Mode:	Auto Mode	~	
-							Day to Night Value:		Reset	
	System						Night to Day Value:		Reset	
-							IR Light Sensor Value:	100 🗢		
0	Maintenance						Smart IR Mode:	Auto Mode	~	
							IR Strength Value:	Near: 0 Far: 0 🔅		
							White LED Level:		Reset	
							Day/Night Switch Refocus:	On	~	~

#### 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	There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with this mode. <b>Night Mode:</b> Show in live view based on Night Mode settings <b>Day Mode:</b> Show in live view based on Day Mode settings <b>Auto Mode:</b> Show in live view based on environment, set the sensitivity for switching Day Mode to Night Mode, or Night Mode to Day Mode <b>Customize:</b> Show in live view based on your own settings' time to start/end Night Mode
Day To Night Value	This is the sensitivity for switching <b>Day Mode</b> to <b>Night Mode</b> . 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 <b>Night Mode</b> to <b>Day Mode</b> . When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode.
IR Light Sensor Value	The current value of the IR light sensor
Smart IR Mode	With the combination of the High Beam and Low Beam, The IR LEDs technology has been upgraded to provide better image clarity and quality regardless of the object distance. Also, the Low Beam and High Beam's brightness can be adjusted manually or automatically on the basis of the Zoom ratio. Moreover, with the IR anti-reflection panel, the infrared light transmittance is highly increased. Support to set the strength of the IR to <b>Auto Mode</b> or <b>Customize</b> to achieve the best effect. Speed Dome has 8 LED lights, 4 are High Beams and 4 are Low Beams. And Mini PTZ Bullet has 4 LED lights, 2 are High Beams and 2 are Low Beams.
Near view level	Adjust the light strength of Low-Beams LED light level from 0 to 100.
Far view level	Adjust the light strength of High-Beams LED light level from 0 to 100.
IR Strength Value	The current value of Low-Beams LED and High-Beams LED light value
Day/Night Switch Refocus	With this option enabled, the camera will refocus when switching between day mode and night mode.
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
Smoked Dome Cover	This function is only for Mini PTZ Dome. If Mini PTZ Dome is equipped with a Smoked Dome Cover, enable this function to display a normal image.

#### Note:

The PTZ Network Camera which with optical zoom of 20X or above supports Zoom Limit function.



### Enhancement

esi	ght Network Carr	iera							💄 admin 🕞 Le
٩	Milesight	Basic S	ettings >> Image	Э					
•	Live Video	Display	Enhancement	Day/Night Mode	OSD	ROI			
	Playback						Network Came	26700/2020_14: 29: 11	^
ter .	Local Settings							AN AD IN COMPANY	
ø	Basic Settings						and the second second		
	Video								
	Image								
	Audio						HE		
	Network								
	Date & Time						IR Balance Mode:	► 10	
P	Advanced Settings						White Balance:	Auto White Balance	
							Reduce Motion Blur:	Off	
	System						Defog Mode:	Off	
							Digital Image Stabilisation:	Off	
0	Maintenance						Exposure Mode:	Auto Mode 🗸	
							Single Mode O Da	y/Night Mode 🔿 Schedule Mode	
							BLC	○ WDR ○ HLC	
							BLC Region:	Off	~

#### Table 4-4-3 Description of the buttons

Parameters	Function Introduction
IP Palanco Modo	There is an option to turn On/Off the IR LED.
	IR Balance Mode would avoid the problem of overexposure or darkness, and

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	the IR LED will change according to the actual illumination.
White Balance	To restore white objects and remove color distortion cause by the light of the environment Auto White Balance: This option will automatically enable the White Balance function; Manual White Balance: Set Red Gain Level and Blue Gain Level manually; Incandescent Lamp: Select this option when light is similar with incandescent lamp; Warm Light Lamp: Select this option when light is similar with warm light lamp; Natural Light: Select this option when there is no other light but natural light; Fluorescent Lamp: Select this option when light is similar with Fluorescent Lamp. Schedule mode: Select this option that you can customize the schedule to enable/disable above modes
Reduce Motion Blur	Enable this function to reduce the motion blur of objects effectively. You can adjust the deblur level from 1 to 100.
Defog Mode	Better image effect in foggy weather, refers to Figure 4-4-9
Digital Image Stabilisation	Decrease the blur and shakiness of the image.
Exposure Mode	Auto Mode, Manual Mode and Schedule Mode are available. Auto Mode: The camera will adjust the brightness according to the light environment automatically; 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; Schedule Mode: You can customize the schedule to enable/disable Auto Mode and Manual Mode.
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	<ul> <li>Off, Customize, and Centre are available (in single mode, only enable when WDR is disable)</li> <li>Off: Calculate the full range of view and offer appropriate light compensation</li> <li>Customize: This option enables you to customize inclusive or exclusive region manually</li> <li>Centre: This option will automatically add an inclusive region in the middle of the window and give the necessary light compensation</li> </ul>
Wide Dynamic Range	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. Off: Disable WDR function

📀 Milesight

	On: Enable the WDR, there are Low/High/Auto three levels
	Customize: Customize the schedule to enable/disable the WDR function and
	set the levels with Low/High/Auto
Wide Dynamic Level	Set WDR with <b>Low/High/Auto</b> level
Anti-flicker Level	Reduce flickers that appear on screen in some lighting conditions and there are 10 levels of anti-flicker adjustments
	This function is only for H.265 series to adjust the brightness to a normal range when the light is strong, refers to Figure 4-4-10
	Off: Disable HLC function
High Light Compensation	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 <b>BLC/WDR/HLC</b> mode

#### Note:

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

1.0			1000		1									
Auto	White	Balance	~	Select	All									
Su	0	2	4	6	8	10	12	14	16	18	20	22	24	🛃 Auto White Balance
Mo	0	2	4	6	8	10	12	14	16	18	20	22	24	Manual White Balance Incandescent Lamp
Tu	0	2	4	6	8	10	12	14	16	18	20	22	24	Warm Light Lamp
We	o ed	2	4	6	8	10	12	14	16	18	20	22	24	<ul> <li>Natural Light</li> <li>Fluorescent Lamp</li> </ul>
Th	0	2	4	6	8	10	12	14	16	18	20	22	24	Manual White Balance:
Fr	0 ri	2	4	6	8	10	12	14	16	18	20	22	24	Red Gain Level:
Se	o at	2	4	6	8	10	12	14	16	18	20	22	24	Blue Gain Level:

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

scned	ule Setti	ngs												
Auto M	ode 🗸	Selec	t All											
Sun	0 :	4	6	8	10	12	14	16	18	20	22	24	∠	Auto Mode
- Cull	0 2	. 4	6	8	10	12	14	16	18	20	22	24	-	Manual Mode 0
Mon	0 2	. 4	6	8	10	12	14	16	18	20	22	24		WDR/HLC has higher priority than exposure settings during the same
Wed	0 2	. 4	6	8	10	12	14	16	18	20	22	24		time frame.
Thu	0 2	. 4	6	8	10	12	14	16	18	20	22	24		
Fri	0 2	. 1	6	8	10	12	14	16	18	20	22	24		
	0 2	. 4	6	8	10	12	14	16	18	20	22	24		

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

Milesight Net	vork Can	nera															
	Sched	ule :	Settings														
	BLC	-	Select A	1													
	Sun	0	2	4	6	8	10	12	14	16	18	20	22	24	⊻	BLC	
	Mon	0	2	4	6	8	10	12	14	16	18	20	22	24	1	WDR HLC	
	Tue	0	2	4	6	8	10	12	14	16	18	20	22	24			
	Wed	0	2	4	6	8	10	12	14	16	18	20	22	24			
	Thu	0	2	4	6	8	10	12	14	16	18	20	22	24			
	Fri	0	2	4	6	8	10	12	14	16	18	20	22	24			
	Sat	0	2	4	6	8	10	12	14	16	18	20	22	24			
								Save		Reset	1						
							13										

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



6) HLC Image.



# Day/Night Mode

Mile	sight Network Ca	mera										admin	<b>E</b> → Logout
	Milesight	Basic Sett	ings >> Image										
	Live Video	Display	Enhancement Day/Night Mode	OSD ROI									
	Playback				Network Camera		26/00/2020 14:	30:14					^
	Local Settings							e de la compañía de					
	Basic Settings					C MA							
	Video					Provide and in the local	-	100					
	Image	1											
	Audio	-					S. Bart						
	Network						800						
	Date & Time					Day/Night M	ode						
			Day/Night Mode	Exposure Level	Minimum Shutter	Maximum Shutter	Limit Gain Level	IR-CUT Latency	IR-CUT	LED	Color Mode		
0	P Advanced Settings		Night Mode:	5 🗸	1/25 🗸	1/100000 🗸	100	5s 🗸	Off 🗸	IR LED On 🗸	B/W ¥		
	System		Day Mode:	5 🗸	1/25 🗸	1/100000 🗸	100	5s 🗸	On 🗸	All LED Off 🗸	Color 🗸		
	E OJOIOIN					Schedule M	ode						
	Maintenance		Timer	Exposure Level	Minimum Shutter	Maximum Shutter	Limit Gain Level	IR-CUT Latency	IR-CUT	LED	Color Mode		
					1/25 🗸	1/100000 🗸	100	5s 🗸	Off V	All LED Off	B/W 🔽		
					1/25	1/100000	100	5s 🗸		AILLED Off	B/W V		
					1/25	1/100000	100			AILED Off	DIVV V		
					1/25	1/100000	100	50 1			B/W V		~
			100 - 100 - 124 - 100		1020	1.100000	100	55 <u>+</u>	Iou 🖣	parce on (	CA.14		

#### Table 4-4-4 Description of the buttons

Parameters	Function Introduction				
Exposure Level	Level 0~10 are available to meet your need.				
Minimum Shutter	Minimum Shutter is the same as Maximum Exposure Time. Set the minimum Shutter to 1~1/100000s				
Maximum Shutter	Maximum Shutter is the same as Minimum Exposure Time. Set the maximum Shutter to 1~1/100000s				
IR-CUT Latency	The interval time of switching one mode to another.				
IR-CUT	Turn on or turn off IR-CUT.				
	Choose to turn on or turn off under this mode.				
	LED off: Turn off all the LEDs on the device;				
LEV	IR LED on: Turn on the IR LED;				
	White LED on: Turn on the White LED (Only for Mini PTZ Bullet).				

Color Mode	Select B/W or Color mode under Day/Night mode.
Schodulo Modo	By this you can customize your special demands for different time, then the Day
Schedule Mode	mode and Night mode will switch automatically according to your settings.

# OSD(On Screen Display)

Milesight

Milesi	ight Network Cam	era							💄 admin 🛛 🕞 Logout
0	Milesight	Basic S	ettings >> Imag	e					
-	Live Video	Display	Enhancement	Day/Night Mode	OSD	ROI			
	Playback						Network Came	201001 2020_14: 30: 51	^
- 10	Local Settings								
ø	Basic Settings								
	Video								
	Image								
	Audio						E E		
	Network								
	Date & Time						Video Stream:	Primary Stream	
o <sup>o</sup>	Advanced Settings						Font Size:	Medium	
							Font Color:	<b>Q</b>	
	System						Show Video Title:		
1.0							Video Title:	Network Camera	
0	Maintenance						Text Position:	Top-Left 🗸	
							Show Timestamp:		
							Date Position:	Top-Right 🗸	
							Date Format:	DD/MM/YYYY ¥	~

#### 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

## ROI

Region of interest(often abbreviate ROI), is a selected subset of samples within a dataset identified for a particular purpose. Users can select up to 8 key regions of a scene to transmit through separate streams for targeted preview and recording.

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



#### Table 4-4-6Description of the buttons

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

#### Note:

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

### 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.

Network Camera Milesig	Bitrate : 0.0kkps Histo Codec .H.06 Marris Connection .38
Enable Audio:	
Audio Mode:	Both Audio Input & Output 🗸
Audio Input	
Denoise:	
Encoding:	G711-ULaw
Sample Rate:	8KHz 🗸
Input Gain:	
Audio Output	
Auto Gain Control:	$\checkmark$
Output Volume:	76
s	iave

Table 4-4-7 Description of the buttons

Parameters	Function Introduction
Enable Audio	Check on the checkbox to enable audio feature.
Audio Input	<ul> <li>Denoise: Set it as On/Off. When you set the function on, the noise detected can be filtered.</li> <li>Encoding: G711-ULaw, G711-ALaw, AAC LC, G722 and G726 are available;</li> <li>Sample Rate: There are 8KHz/16KHz two options;</li> <li>Input Gain: Input audio gain level, 0-100;</li> <li>Alarm Level: Alarm will be triggered if voice alarm is enabled and input gained volume is higher than the alarm level, 0-100.</li> </ul>
Audio Output	Auto Gain Control: Improve the quality of audio; Output Volume: Adjust volume of output.

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



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

#### Note:

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

### 4.4.4 Network

## TCP/IP

Use fixed IPv4 address	
IP Address:	192.168.8.121 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:	

Table 4-4-8 Description of the buttons

Parameters	Function Introduction
Get IPv4 Address	Get an IP address from the DHCP server automatically.
	<b>IDv/ Address:</b> It is used to identify a network camera on the network:
	<b>IPv4 Subnet Mask:</b> It is used for identifying the subnet where the network
	camera is located;
Lico fixed ID address	IPv4 Default Gateway: It is the default router address;
Use lixed if address	Preferred DNS Server: The DNS Server translates the domain name to IP
	address;
	IPv6 Mode: Choose different mode for IPv6: Manual/Route Advertisement/
	DHCPv6;

IPv6 Address: It is used to identify a network camera on the network;
IPv6 Prefix: Define the prefix length of IPv6 address;
IPv6 Default Gateway: The default router IPv6 address.

### Note:

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

## HTTP

HTTP Enable:		
HTTP Port:	80	
HTTPS Enable:		
HTTPS Port:	443	
HTTPS Settings		
Installed Certificate:	C=US, H/IP=IPC	Reset
Attributes:	Awarded to: C=US, H/IP=IPC Issuer: C=US, H/IP=IPC Period of Validity: Dec 18 06:46:09 2019 ~ Sep 12 06:46:09 2022	
Installation Type:	Create a Private Certificat	e 🗸
Create a Drivete Cortificate:	Create	

Table 4-4-9 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 .
нт	<b>FP URL are as below:</b>	
	Stream	URI

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

### **RTSP**

RTSP Port	554 0
Playback Port	555 ①
RTP Packet:	Better Compatibility
Multicast Group Address:	239.6.6.6
QoS DSCP(0~63):	0

#### Table 4-4-10 Description of the buttons

Parameters	Function Introduction
RTSP Port	The port of RTSP, the default is 554.
Playback Port	The port of playback, the default is 555.
RTP Packet	There are Better Compatibility and Better Performance two options. If your camera's image mess up, please switch this option.
Multicast Group Address	Support multicast function.
QoS DSCP	The valid value range of the DSCP is 0-63.

#### **RTSP URL are as below:**

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

#### Note:

- 1) Get the format of RTSP URL by clicking "<sup>①</sup> "on the right side of RTSP Port.
- 2) Get the playback tip by clicking " $^{\textcircled{0}}$  "on the right side of Playback Port.



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

### UPnP

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

Enable UPnP:		]	
Port Mapping			
Enable Port Mappir	ig:	]	
Name:		UPnP	
Туре:	A	Auto	~
Protocol Name	External Port	Internal Port	Status
HTTP	21202	80	Invalid
RTSP	23202	554	Invalid
		CEC	Invalid

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
Туре	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

Table 4-4-11	Description of the buttons
--------------	----------------------------

### 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.

hable DDNS:		
rovider:	ddns.milesight.com	
External HTTP Port :	80	
External RTSP Port:	554	
External Playback Port:	555	
DDNS URL: http://ddns.milesight.com/210C1E		

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" .

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

Table 4-4-12	Description of the buttons	
	Description of the buttons	

#### 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:	hdipnc
Sender Email Address:	hdipnc@sina.com
Password:	*******
SMTP Server:	smtp.sina.com
SMTP Port:	25
Recipient Email Address1:	user@domain.com
Recipient Email Address2:	
Encryption:	O SSL O TLS

Table 4-4-13Description 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:	192.168.5.1	
Server Port:	21	
User Name:	admin	
Password:		
FTP over SSL/TLS(FTPS):		
FTP Storage Settings		
Storage Path:	Child Directory	~
Parent Directory:	Date	~
Child Directory:	IP Address	~
Alarm Action File Name:	Customize	~
Video File Name:	YYYY-MM-DD	~
Image File Name:	YYYY-MM-DD	~
Image File Name: Timing Snapshot File Name:	YYYY-MM-DD Default(YYYY-MM-DD)	~



Parameters	Function Introduction	
Server Address	FTP server address	
Server Port	The port of the FTP server. Generally it is 21	
User Name	User name used to log in to the FTP sever	
Password	User password	
Storage Path	Storage Path where video and image will be uploaded to the FTP server. Four FTP storage path types are available, including Root Directory, Parent Directory, Child Directory and Customize.	
Parent Directory	Choose IP Address/ Device Name/ Date as the folder name of Parent Directory, or customize the folder name.	
Child Directory	Choose IP Address/ Device Name/ Date as the folder name of Child Directory, or customize the folder name.	
Multilevel Folder Name	If the storage path is more than two levels, enter Multilevel FTP storage path here manually.	
Alarm Action File Name	Choose the default(YYYY-MM-DD) or customize the alarm action file name.	
Video File Name	If you choose to customize video file name, YYYY-MM-DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.	
Image File Name	If you choose to customize image file name, YYYY-MM-DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.	



Timing Snapshot File	Default(YYYY-MM-DD) /MM-DD-YYYY/ DD-MM-YYYY/ Add prefix/ Overwrite wit	
Name	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 ID(1~4094)	
VE/1110(1 4004).	1
VLAN IP:	
VLAN Netmask:	4 (4) 4
VLAN Gateway:	12 12 17

#### 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:	
Dynamic IP:	0.0.0.0
User Name:	
Password:	
Confirm Password:	
	Save

#### Note:

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



### **SNMP**

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

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

SNMP v1/v2	
SNMP V1 Enable:	
SNMP V2c Enable:	
Write Community:	public
Read Community:	private
SNMP v3	
SNMP V3 Enable:	
Read Security Name:	
Level of Security:	no auth,no priv 🗸 🗸
Write Security Name:	
Level of Security:	no auth,no priv 🗸 🗸
SNMP Port	
SNMP Port:	161

Table 4-4-15	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)	

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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:		
Protocol:	EAP-MD5	
Eapol Version:	1 ~	
User Name:		
Password:		
Confirm Password:		
	Save	

### **Bonjour**

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

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

Enable Bonjour:	
Bonjour Name:	MS-C2962-FPB-1CC316210991
	Save

### **RTMP**

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



dary Stream 🔻
a.rtmp.youtube.com/

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

### Note:

1) For YouTube live broadcast, if you use a newly created account to live broadcast, you need to wait for 24hrs to activate the account for using live function.

2) For RTMP, since G.711 is not available for YouTube, so you can only play video from Milesight Network Camera with H.264 video coding and AAC audio coding on YouTube.

Server Address in Network Camera RTMP interface needs to be filled with the format: rtmp://<</li>
 Server URL >/< Stream key >, remember it needs '/' to connect between < Server URL > and <</li>
 Stream key >.

## 4.4.5 Date&Time

Current System Time	
Date:	26/04/2020
Time:	14:49:33
Set the System Time	
Time Zone:	(UTC+08:00) China(Beijing, Honç 🗸
Daylight Saving Time:	Disabled 🗸
NTP server	
Server Address:	192.168.14.101
NTP Sync:	Interval: 1 day
O Manual	
Time:	26/04/2020 14:48:34
O Synchronize with computer tin	ne
Date:	26/04/2020
Time:	14:49:35

## **Current System Time**

Current date&time of the system

## Set the System Time

Table 4-4-16 Description of the buttons

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

# **4.5 Advanced Settings**

## 4.5.1 Alarm

### **Motion Detection**

Step1: Check the checkbox to enable the motion detection; Step2: Set motion region;



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

#### Table 4-5-1 Description of the buttons

## Step3: Set motion detection schedule;



### Step4: Set alarm action;

Alarm Action	
Save Into Storage:	<ul> <li>File Format: Record (Please mount storage device.)</li> </ul>
Upload Via FTP:	File Format: Record
Upload Via SMTP:	File Format: Snapsho
External Output:	☐ (Please configure the External Output Action Time.)
Play Audio:	☐ (Please configure the Audio Action Settings and Audio Interval.)
Alarm to SIP Phone:	(Please open the SIP.)
HTTP Notification:	
White LED:	
PTZ Motion:	

Parameters	Function Introduction
Save Into Storage	Save alarm recording files into SD Card or NAS
Upload Via FTP	Upload the recording files via FTP.
Upload Via SMTP	Upload the files via SMTP.
External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration.
Play Audio	If the camera equips with Speaker, you can enable the action after configuring the audio speaker.
Play Buzzer	If the camera equips with Buzzer, you can check the checkbox to enable the function.
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.
HTTP Notification	Support to pop up the alarm news to specified HTTP URL. Note: 1) Three HTTP notifications at most can be added to the same event. 2) HTTP Notification supports Basic & Digest authentication.
White LED	When the alarm triggered, White LED will turn on to warning the detected objects (Only for Mini PTZ Bullet).
PTZ Motion	When the motion alarm triggered, PTZ Motion allows the camera move the lens to the motion triggered position and zoom in.
Call Preset/	
Call Patrol/Call Pattern	When the motion alarm triggered, the specified preset/patrol/pattern can be
(only for External	called.
Input)	

#### Table 4-5-2 Description of the buttons

#### NOTE:

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

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

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

Step1: Enable Alarm; set Motion Region and Detection Schedule;

Step2: Confirm the HTTP Notification as Alarm Action, and fill the fields. Then save the alarm setting. You can add up to three HTTP notifications to the same event;

HTTP Notification:	$\checkmark$
HTTP Notification URL:	URL 1 🗸
Enable:	
Trigger Interval:	5 (0-900) s
URL:	192.168.8.75:8601/Interface/Ca meras/MotionDetection/Notify? Camera=annie
User Name:	admin
Password:	

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

HTTP Password: ms1234 (the password of your camera)

HTTP Notification URL:

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

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

**8601** is the port for Motion signal in Digifort.

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

Close al	General						
Camera	General camera (	iata					
General	<b>7</b>						
Lens	Camera name	Camera descriptio	0				
Motion detection	annie	sdf					
Audio	Manufacturer						
Image filters	ONVIF	Open Network Video Inter	face Forum				
Streaming	Camera model		Firmware			Channel	
Media profiles	ONVER Conformant Devi	ce 💌	1.02 or greater		•	1	۲
Recording	Camera address		Port (80)	User		Password	
Live view	192.168.8.173		80	5 admin			R
Recording	Camera shortcut			Connection timeor	ut (Milliseconds	)	
Settings				30000			۲
Archiving	Recording directory						0
Rights	E:1/2015/dst/						12:
Users	Activate camera						
PTZ							
Settings							
Presets							
PTZ Patrol							
Auxiliary							
Joystick							
Menu control							
110						01	0

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;

Notion detection	
Motion detection settings	
O Use software motion detection	
Ose motion detection by external notification	

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



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

Alarm Setting			
Record Video Sections:	5 seconds	~	
Snapshot:	1	~	
Snapshot Interval:	1 second	$\checkmark$	
External Output Action Time:	Customize	~	
	0	s(1~	-999)
Audio Action Settings:	Edit		
Play Audio Interval:	Auto	~	
White LED Flash Mode:	Twinkle	$\checkmark$	
White LED Flash Time:		_	Reset
White LED Effective Mode:	Always	$\checkmark$	
Proportional Zoom Times:	2X	$\checkmark$	
PTZ Motion Recovery Time:	3 seconds (Recovery time is not l	ess than fla	ash time.)

#### Table 4-5-3 Description of the buttons

Parameters	Function Introduction
Record Video Sections	Six different periods are available(5, 10, 15, 20, 25, 30 sec).
Snapshot	The number of snapshot, from 1 to 5.
Snapshot Interval	It cannot be edited unless you choose more than 1 to Snapshot.
External Output Action Time	Length of time an alarm lasts, this cannot be edited unless when you enable the External Output on the Alarm Action firstly.
Audio Action Settings	Set the audio schedule to trigger different audio files and action times in different time, which is corresponded to alarm action.
Play Audio Interval	Auto/ 10 seconds/ 30 seconds/ 1 minute/ 5 minutes/ 10 minutes are available.
White LED Flash Mode	Twinkle: The White LED will continuous flashing before recovered; Always: The White LED will always open before recovered.

White LED Flash Time	The duration of flash. Twinkle from 1 second to 10 seconds; Always from 1 second to 60 seconds.
Proportional Zoom Times	Support to zoom proportionally when PTZ Motion is triggered.
PTZ Motion Recovery Time	The duration of one alarm. It must be longer than flash time.

#### Note:

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- 1) Recovery time should not be less than flash time.
- 2) You can customize the schedule of Audio Action.



### **Audio Alarm**

Enable the Audio before using Audio Alarm function.



Alarm Action		
Save Into Storage:	(Please mount storage device.)	
Upload Via FTP:	File Format: Record	
Upload Via SMTP:	File Format: Snapsho	
External Output:	☐ (Please configure the External Output Action Time.)	
Play Audio:	☐ (Please configure the Audio Action Settings and Audio Interval.)	
Alarm to SIP Phone:	(Please open the SIP.)	
HTTP Notification:		
White LED:		
PTZ Motion:		
Alarm Setting		
Record Video Sections:	5 seconds	
Snapshot:	1 🗸	
Snapshot Interval:	1 second 🗸	
External Output Action Time:	Customize	
	0s(1~999)	
Audio Action Settings:	Edit	
Play Audio Interval:	Auto	
White LED Flash Mode:	Twinkle	
White LED Flash Time:		
White LED Effective Mode:	Always	

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

# **External Input**



Alarm Action	
Save Into Storage:	(Please mount storage device.)
Upload Via FTP:	File Format: Record
Upload Via SMTP:	File Format: Snapsho
External Output:	☐ (Please configure the External Output Action Time.)
Play Audio:	☐ (Please configure the Audio Action Settings and Audio Interval.)
Alarm to SIP Phone:	(Please open the SIP.)
HTTP Notification:	
White LED:	
PTZ Motion:	
Alarm Setting	
Record Video Sections:	5 seconds
Snapshot:	1 ~
Snapshot Interval:	1 second 🗸
External Output Action Time:	Customize
	0s(1~999)
Audio Action Settings:	Edit
Play Audio Interval:	Auto
White LED Flash Mode:	Twinkle
White LED Flash Time:	Reset
White LED Effective Mode:	Always

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

## **Other Alarm**

## Alarm Action

Alarm Action		
Save Into Storage:	File Format: Record (Please mount storage device.)	
External Output:	□ (Please configure the External Output Action Time.)	
Play Audio:	(Please enable the Audio Speaker.)	
White LED:		
Alarm Setting		
Record Video Sections:	5 seconds	
Snapshot:	1 ~	
Snapshot Interval:	1 second 🗸	
External Output Action Time:	Customize	
	0s(1~999)	
Audio Action Settings:	Edit	
Play Audio Interval:	Auto	
White LED Flash Mode:	Twinkle	
White LED Flash Time:		
White LED Effective Mode:	Always	

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	<ul> <li>Save Into SD Card: Save alarm recording files into SD Card</li> <li>External Output: If the camera equips with External Output, you can enable the action after configuring the trigger duration</li> <li>Play Audio: If the camera equips with Speaker, you can enable the action after configuring the audio speaker</li> <li>Play Buzzer: If the camera equips with Buzzer, you can check the checkbox to enable the function</li> <li>White LED: The White LED could flash as a warning signal when the alarm triggered if the camera equipped with it(only for Mini PTZ Bullet).</li> </ul>

	<b>Record Video Sections:</b> Six different periods are available(5, 10, 15, 20, 25, 30
	Snapshot: The number of snapshot, 1~5
	Snapshot Interval: This cannot be edited unless you choose more than 1 to
	Snapshot
	Trigger Duration: Length of time an alarm lasts, this cannot be edited unless
	when you enable the External Output on the Alarm Action firstly
	Audio Action Settings: Set the audio schedule to trigger different audio files and
	action times in different time, which is corresponded to alarm action
Alarm Setting	Play Audio Interval: Auto/10 seconds/30 seconds/1 minute/5 minutes/10
	minutes are available
	White LED Flash Mode: Twinkle and Always are available.
	White LED Flash Time: The duration of flash. Twinkle from 1 second to 10
	seconds; Always from 1 second to 60 seconds.
	White LED Effective Mode: Always, Light Environment and Customize are
	available. Always Mode allows to keep White LED always on. Light Environment
	Mode allows to set the Effective Light Intensity to turn on White LED basing on
	Current Light Intensity. Customize Mode allows to set the start time and the end
	time to control White LED.

### **External Output**

Name of Otations	O David @ Crownshid	
Normal Status:	O Open	
Current Status:	Grounded	

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

## 4.5.2 Storage

#### Before you start:

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

Choose the storage mode according to your needs.

### **Storage Management**

### SD Card:



Note: Please insert SD card.

Parameters	Function Introduction
Format	Format SD card, the files in SD card will be removed
Mount/UnMount	Mount/Dismount SD card
Delete	Enable cyclic storage, when the free disk space reach at a certain value, it will automatically delete the files at certain percentage according to your settings

#### Table 4-5-5 Description of the buttons

### NAS

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

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

NAS Settings	
Server Address:	
File Path:	
Mounting Type:	NFS V
	Add

Table 4-5-6 Description of the buttons

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

### Note:

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

## **Record Settings**





Parameters	Function Introduction
Enable Recycle Storage	Enable/Disable Recycle Storage, if you enable this option, it will delete the files when the free disk space reach a certain value.
Pre-record	Reserve the record time before alarm, 0~10 sec
Schedule Settings	Click the Edit button to edit record schedule

#### Note:

SD Card or NAS are available.

## **Snapshot Settings**



Table 4-5-8 Description of the butto
--------------------------------------

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

## **Explorer**

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

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



Video files are arranged by date. Set file type and start/end time to search out files. Each day files will be displayed under the corresponding date, from here you can copy and delete files etc. You can visit the files in SD card by ftp, for example, ftp://username:password@192.168.5.190(user name and password are the same as the camera account and the IP followed is the IP of your device.).

w 10 🗸	entries				Download	L	
	File Name	Start Time	End Time	Туре	Size	File Sear	ch
		Please mount stora	ge device first!			Main Type:	
						Record	
						Sub Type:	
						All	
						Start Time:	
						2019-03-12 00:0	0:00
						End Time:	
						2019-03-12 23:59	9:59
						Search	Reset
Showing	0 to 0 of 0 entries	First Previous Next La	st				
					Go		

## 4.5.3 Security

#### User

lanage Privilege		
Allow Anonymous Viewin	g: 🗆	
Security Question		
Security Question:	Edit	
Account Management		
	_	
Add Edit Delete	e	
Add Edit Delete	e User Name	Privilege
Add Edit Delete	e User Name admin	Privilege Administrator
Add Edit Delete	e User Name admin	Privilege Administrator
Add Edit Delete ID 1 Admin Password: User Level:	User Name admin	Privilege Administrator
Add Edit Delete	User Name admin  Umathematical  Definition  Definition Definition Definition Definition Definition Definition Definition Definition Definition Definition Definition Definitio	Privilege Administrator
Add Edit Delete ID Admin Password: User Level: User Name: Password:	User Name admin admin Operato Operato Operato Operato Operato Operato Operato	Privilege Administrator



Parameters	Function Introduction					
Manage Privilege	Allow anonymous viewing: Check the checkbox to enable visit from whom doesn't have account of the device					
Security Question	Click "Edit" button to set three security questions for your camera. In case that you forget the password, you can click "Forget Password" button on login page to reset the password by answering three security questions correctly.					
	There are twelve default questions below, you can also customize the security questions.					
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	What's your father's name? What's your favorite sport? What's your mother's name? What's your mobile number? What's your first pet's name? What's your favorite book? What's your favorite game? What's your favorite food? What's your favorite color? What's your lucky number? What's your best friend's name? Where did you go on your first trip? Customized Question	
Account Management	Click "Add" button, it will display Account Management page. You can add an account to the camera by entering Admin Password, User Level, User Name, New Password, Confirm, and edit user privilege by clicking  . The added account will be displayed in the account list. Admin Password: You can add an account only after you enter the correct admin password. User Level: Set the privilege for the account. User Name: Input user name for creating an account. Password: Input password for the account. Confirm: Confirm the password. You can edit and delete the account in the account list under the admin account. For the default admin account, you can only change the password, and it cannot	

#### Note:

1) You can only add 20 users.

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

#### **Access List**

General Settings	
Maximum Number of Concurrent Streaming:	9
IP Access List	
Rule:	Single V
IP Address:	
	Add
Enable Access List Filtering:	
Filter Type:	Allow      Deny

Parameters	Function Introduction
General Settings	<b>Maximum number of concurrent streaming:</b> Select the maximum number of concurrent streaming. Options include Number Limit, 1~9.
IP access list	Rule: Single, Network and Range are available; IP address: Input the address to get the access to the device.
Enable access list filtering	Able to access or restrict access for some IP address.
Filter type	Access or restrict access

Table 4-5-10 Description of the buttons

## **Security Service**

Enable CCU-	128
Enable SSH.	
SSH Port:	6022
5511-01.	0022

#### Table 4-5-11 Description of the buttons

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

## Watermark

nable Watermark:	
atermark String:	IP CAMERA

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

# 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:	$\checkmark$
Register Mode:	Enable
User ID:	500
User Name:	sipclient
Password:	*******
Server Address:	192.168.5.101
Server Port:	5060
Connection Protocol:	UDP 🗸
Video Stream:	Tertiary Stream 🗸
Max Call Duration:	1800 s
max our burdton.	(0 means no limitation.)

Table 4-5-12 Description of the buttons

Parameters	Function Introduction
Unregistered/ Registered	SIP registration status. Display "Unregistered" or "Registered"
Enable	Start or stop using SIP
Register Mode	Choose to use Enable mode or Disable mode. Enable mode means to use SIP with register account. Disable mode refers to use SIP without register account, just use the IP address to call.
User ID	SIP ID
User Name	SIP account name



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

#### **Note:** SIP supports Directly IP call.

# **Alarm Phone List**

Phone Type:	Phone Number
To Phone Number:	
Remark Name:	
Duration:	From 00 V : 00 V To 24 V : 00 V
	Add

#### Table 4-5-13 Description of the buttons

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

# White List

Phone Number
A14
Add

Table 4-5-14 Description of the buttons

Parameters	Function Introduction
1	

Milesight Milesight Technology Co.,Ltd.

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

# 4.5.5 VCA

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

#### **Region Entrance**

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



Step1: Set detecting sensitivity;

Step2: Set entrance detection region. If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets(Only support Preset 1~4 so far). Step3: Set detection schedule;

Step4: Set alarm action;

Step5: Set alarm settings.

## **Region Exiting**

Region exiting is to make sure that any person or object won't exit the area that is being monitored.

Any exit of people or objects will trigger an alarm.

	Enable Region Exiting Detection Sensitivity:	on: 🗆			
	Sensitivity:	5			
	Effective Region Settings				
	Encourte rieg.on Octango.	Normal	~		
	Set Exiting Detection Region	n			
		Julear All			
	Note. Pie	ease draw the screen for	eungi		

Step1: Set detecting sensitivity;

Step2: Set exiting detection region. If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets(Only support Preset 1~4 so far). Step3: Set detection schedule;

Step4: Set alarm action;

Step5: Set alarm settings.

# **Advanced Motion Detection**

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



Step1: Set detecting sensitivity;

Step2: Set advanced motion detection region. If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets(Only support Preset 1~4 so far).



Step3: Set detection schedule; Step4: Set alarm action; Step5: Set alarm settings.

#### Note:

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

#### **Tamper Detection**

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

Advanced Settir	ngs >> VCA									
Region Entrance	Region Exiting	Advanced Motion Detection	Tamper Detection	Line Crossing	Loitering	Human Detection	People Counting	Object Left/Removed	Settings	
			Enable Tamper Detection: Sensitivity:							^
			Schedule Settings							l
			Sun =							l
			Tue =							l
			Fri - Sat							ł
			00 01 02 03 04 05 06 07	Edit	14 15 16 17 18 1	9 20 21 22 23 24				
			Alarm Action							
			Save Into Storage:	File (Ple	Format: Record ase mount storage	device.)				
			Upload Via FTP:	□ File	Format: Record	~				
			Upload Via Email:	🗆 File	Format: Snapsh	ot 🗸				
			External Output:	C (Ple	ase configure the l	External Output				~

Step1: Set detecting sensitivity;

Step2: Set detection schedule;

Step3: Set alarm action;

Step4: Set alarm settings.

#### Note:

The algorithm supports defocus detection in Tamper Detection function.

## **Line Crossing**

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





## Settings steps are shown as follows: Step1: Choose a line number;



## Step2: Enable Line Crossing Detection and define its direction;

Line crossing.	
Enable Line Crossing Detection:	
Direction:	A<->B
Sensitivity:	A->B B->A A<->B

#### Step3: Set detecting sensitivity;

Step4: Draw detection lines. If you choose **Normal Mode**, it supports configuring the detection lines for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring different detection lines for different PTZ presets(Only support Preset 1~4 so far). Step5: Set detection schedule;

Step6: Set alarm action;

Step7: Set alarm settings.

## Note:

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



# Loitering

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



Step1: Set minimum loitering time;

Step2: Set loitering detection region. If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets(Only support Preset 1~4 so far). Step3: Set detection schedule;

Step4: Set alarm action;

Step5: Set alarm settings.

#### Note:

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

## **Human Detection**

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

region Entrance	Region Exiting	Advanced Motion Detection	Tamper Detection	Line Crossing	Loitering	Human Detection	People Counting	Object Left/Removed	Settings
			Enable Human Detection:						
			Show Tracks:						
			Human Detection						
						****			
			Schedule Settings						
			Schedule Settings						
			Schedule Settings						

# **People Counting**

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



Step1: Set detection line. If you choose **Normal Mode**, it supports configuring the detection line for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection line for different PTZ presets(Only support Preset 1~4 so far). Step2: Set detection schedule;

Step3: Set counting OSD;

Counting OSD	
Show Video Title:	
Font Size:	Small
Font Color:	
Text Position:	Top-Left 🗸

The OSD of the people counting support automatic zeroing;

Enable Auto Reset:			
Day:	Everyday	~	
Time:	00:00:00		

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

Log Settings	
Logs:	Edit
Enable Auto Export Logs:	
Day:	Everyday 🗸
Time:	00:00:00
Export Time Range::	All 🗸
Export to:	FTP SMTP Storage

Step5: Set alarm trigger. Alarm will be triggered when the thresholds reaches to a certain value from 1 to 9999.

Enable Alarm	Enable Alarm         ✓           Thresholds:         □ In: 9999           □ Out: 9999         □ Out: 9999           □ Capacity: 9999         □ Out: 9999	Alarm Trigger		
In:         9999           Out:         9999	In:         9999           Out:         9999           Capacity:         9999	Enable Alarm		
Thresholds:	Out:         9999           Capacity:         9999		□ In:	9999
	Capacity: 9999	Thresholds:	Out:	9999

Step6: Set alarm action;

Step7: Set alarm settings.

#### Note:

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

# **Object Left/Removed(Optional)**

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





Step1: Enable Object Left or Object Removed(Or you can enable both features at the same time); Step2: Set minimum time;

Step3: Set detecting sensitivity;

Step4: Set detection region. If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets(Only support Preset 1~4 so far). Step5: Set detection schedule;

Step6: Set alarm action;

Step7: Set alarm settings.

#### Note:

1. After setting minimum time from 3s to 1800s, any objects are left in the selected area or removed from the selected area over the minimum time will trigger the alarm.

2. Object Left/Removed is optional, if you need this function, please contact Milesight sales first.

# **Settings**

Milesight VCA provides the primary setting for the whole VCA functions. "Minimum Size" is to set the whether an object is big enough to trigger other settings. The frame you draw on the screen means that only if the object size is bigger than the frame, the settings for other VCA functions will take effect. Maximum Size means opposite, the frame you draw on the screen stands for that only if the object size is smaller than the frame, the settings for other VCA functions will take effect.



Table 4-5-15	Description of the buttons
--------------	----------------------------

Parameters	Function Introduction
Process FPS	Five different periods are available(5, 10, 15, 20, 25, fps) for process fps
Camera Installation	Select camera installation view, including Angle View, Horizontal View and Overhead View
Minimum Size	Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.
Maximum Size	Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320*240.

#### Note:

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



# 4.5.6 PTZ

PTZ Settings provides you to configure the functions and parameters about Pan/Tilt/Zoom.

PTZ parameters are mainly include the Basic parameters, Auto Home, PTZ Limits, Initial Position(Mini PTZ Bullet), Privacy Mask, Scheduled Tasks, Auto Tracking, Config Clear, RS485(Speed Dome).

# Basic

Za ann Otatura	I commente	
Zoom Status:	5 seconds	~
Pan & Tilt Status:	5 seconds	~
Preset Status:	5 seconds	~
Preset		
Preset Freezing:		
Speed		
Preset Speed:	1	~
Patrol		
Patrol Recovering:		
Patrol Recovery Time(5-720s):	10	S
Focus		
Focus Mode:	Semi-Auto	~
Power Off Memory		
Set Resume Time:	Disable	~

#### Table 4-5-16 Description of the buttons

Parameters	Function Introduction
PTZ OSD	Configure the OSD parameter, and you can set the Zoom status OSD, Pan&Tilt Status, Preset Status with Close/ Always open/ 2s/ 5s/ 10s.
Preset	If you enabled Preset Freezing, the live view of preset position will be showed directly instead of showing both the moving path to the position and the live view. It can also reduce the use of bandwidth in the digital network system.
Speed	Preset Speed: It determines the speed of calling presets. Level 1~10 are available. Manual Speed: it only for Speed Dome, and it determines the PTZ speed of Manually control. Low/ Medium/ High are available. Scan Speed: it is only for Speed Dome, and it determines the speed of Auto Scan. Level 1~10 are available.
<b>Patrol</b> (Mini PTZ Bullet)	Patrol Recovering: Click to enable Patrol Recovering. Patrol Recovery Time: Set time for Patrol Recovering, which is between 5 and 720 seconds.
Focus	Focus Mode: Three focus modes are available: Auto/ Semi-Auto/ Manual.

	Minimum focus Distance: Set the minimum focus distance to adjust the step
	length of each focus. 1 meter, 1.5 meters, 3 meters, 6 meters, 10 meters and 20
	meters are available.
	Note: this option is only for Speed Dome.
Power Off Memory	If the camera stop working for a longer time than predefined, the position of it will be recorded. And it will resume to the position after going back to the normal work from power off. You can set the resume time to 30 seconds, 60 seconds, 300 seconds or 600 seconds to record its position.

# **Auto Home**



Enable:	
Latency Time(5-720s):	5s
Auto Home Mode:	Preset 🗸
Auto Home Mode Number:	Current Location V Call

Auto Home allows the PTZ camera to return to a predefined Home Position automatically after a period of latency time. Check the checkbox to enable the Auto Home mode.

Parameters	Function Introduction
Latency Time	Set a latency time to trigger Auto Home mode, 5-720s.
Auto Home Mode	Preset: A preset point will take effect when triggering the Auto Home.
Auto Home Mode Number	Select a predefined preset in the list, press "Call" to check the location. Also support to select current location.

Table 4-5-17 Description of the buttons



# **PTZ Limit**

The PTZ camera can be programmed to move within the configurable PTZ Limits(Left/Right).

Network Camerae	0/222020 16 50 02		001 Preset 1 🛛 🖹 🛪	r .
			002 Preset 2	
		< Ŭ ►	003 Preset 3	
The set of the set	Carl Carl		004 Preset 4	
		<b>b v 4</b>	005 Preset 5	
		5	006 Preset 6	
	AND AND AND A	S —	007 Preset 7	
	1000 - 10 - 10 - 10 - 10 - 10 - 10 - 10		008 Preset 8	
			009 Preset 9	
			010 Preset 10	
	tent Comercian at	o 🗇 📀	011 Preset 11	~
			012 Preset 12	
Limit Mode:	Manual Limit	~		
Enable:				
Mode Status:	Not Limited			
Set Clear				
Note: Please adjust the ca	ameras' tilt angle greater than -	15° to realize 360° pan!		

Step1: Check the checkbox to enable the PTZ Limit function.

Step2: Choose the limit mode as Manual limit or scanning limit.

• Manual Limit:

When Manual limit stops are set, you can operate the PTZ control panel manually only in the limited surveillance area.

• Scan Limit:

When Scan limit stops are set, the auto scan is performed only in the limited surveillance area.

Step3: Click the PTZ controller buttons to set the left/right limit stops; you can also call the defined presets and set them as the limits of the PTZ camera.

Step4: Click Set to save the limits or Clear to clear the limits.

## **Initial Position**

You can configure the Initial Position for Mini PTZ Bullet as a zero point.

Step1: Click the PTZ control buttons as the Initial Position of the Mini PTZ bullet, you can also call a defined preset and set it as the Initial Position.

Step2: Click Set to save the position as the Initial Position.



Table 4-5-18 Description of the buttons

Parameters	Function Introduction
Set	Click to set the current position as a Initial Position
Clear	Clear the Initial Position to default settings.
Call	Click to call the Initial Position.

#### Note:

This function is only for Mini PTZ Bullet.

# **Privacy Mask**

Privacy mask enables to cover certain areas on the live video to prevent certain spots in the surveillance area from being viewed and recorded. The mask area does not move as the lens moves. You can set 8 mask areas at most.



Table 4-5-19	Description	of the buttons
--------------	-------------	----------------

Parameters	Function Introduction
Enable	Check the checkbox to enable the Privacy Mask function
Add	Add the current drawing area as Privacy Mask
Clear	Clear the current drawing area
Clear All	Clear all areas you drew before
Name	Support to customize the name of Privacy Mask

Туре	Select the color for the privacy areas, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red, Violet
Active Zoom Ratio	Set the value of Active Zoom Ratio according to your need, and then the mask will only appear when the zoom ratio is greater than the predefined value

# **Scheduled Tasks**

Milesight

You can configure the PTZ camera to perform a certain action automatically in a user-defined time period.

Step1: Enter the Scheduled Task Settings interface:

				ř.													
1	•	-	Se	ect	All												
ın	0		2		4		6	8	10	12	14	16	18	20	22	24	∠
	0		2		4		6	8	10	12	14	16	18	20	22	24	-
	0		2		4		6	8	10	12	14	16	18	20	22	24	-
be	0		2		4		6	8	10	12	14	16	18	20	22	24	-
	0		2		4		6	8	10	12	14	16	18	20	22	24	-
ri	0		2		4		6	8	10	12	14	16	18	20	22	24	
at	0		2		4		6	8	10	12	14	16	18	20	22	24	
									1.8								
										lear All							
s	Int	erfe	enc	e	Sett	ing	S										

- Step2: Check the checkbox to Enable Scheduled Task.
- Step3: Set the schedule and task details.
- Step4: Set the Task Recovery Time(from 5 to 720 seconds). You can set the time(a period of inactivity) before the PTZ camera starts the schedule and task details.

Step5: Click

button to save all the configurations.

#### Note:

- 1) The time of each task cannot be overlapped. Up to 10 tasks can be configured for each day.
- 2) The Scheduled Tasks function is prior to Auto Home function. When these two functions are set at the same time, only the Scheduled Tasks function takes effect.
- 1) You can click Select All button to select or close all schedule of different kinds of tasks.

## **Auto Tracking**

PTZ series cameras support to track the moving objects automatically after you configure this function.

									0 ) 		003 004 005 006 007 008 009 010 011 012	Preset 3 Preset 4 Preset 5 Preset 6 Preset 7 Preset 8 Preset 9 Preset 10 Preset 11	
nable:													
now Tracking:													
ensitivity:						_	5						
ax. Tracking Tin	ne					30			s				
Sun	0 2	4	6	8	10	12	14	16	18	20	22	24	
Mon	0 2	4	6	8	10	12	14	16	18	20	22	24	
	0 2	4	6	8	10	12	14	16	18	20	22	24	
Tue													
Tue	0 2	4	6	8	10	12	14	16	18	20	22	24	
Tue Wed Thu	0 2	4	6	8	10 10	12 12	14 14	16 16	18 18	20 20	22 22	24 24	
Tue Wed Thu Fri	0 2	4	6	8 8 8 8	10	12 12 12	14 14 14	16 16 16	18 18 18	20 20 20 20	22 22 22 22	24 24 24 24	

Step1: Check the checkbox to enable Auto Tracking;

Step2: Enable "Show Tracking" to show tracking in Auto Tracking function.

Step3: Set detecting sensitivity;

Step4: Set Max. Tracking Time which must be between 5~300s. The camera will stop tracking when the tracking time is used up.

Step5: Set Auto Tracking schedule.

**Note:** Please turn off Auto Home before using Auto Tracking.

# **Config Clear**

Clear All Presets:	
Clear All Patrols:	
Clear All Patterns:	
Clear All Auto Homes:	
Clear All PTZ Limits:	
Clear Initial Position:	
Clear All Privacy Masks:	
Clear All Scheduled Tasks:	

Here you can clear PTZ configurations, including all PTZ configurations, Presets, Patrols, Patterns, Auto Homes, PTZ Limits, Initial Position(Mini PTZ Bullet), Privacy Masks and Scheduled Tasks.

#### **RS485**

Protocol:	Pelco-D OPe	elco-P
Baudrate:	9600	~
Data Bit:	8	$\sim$
Stop Bit:	1	~
Parity:	None	~
Flow Control:	None	~
PTZ Address:	1	
	Sava	

Here you can clear configure RS485 serial port to control the PTZ of Speed Dome. Protocol, Baudrate, Data Bit, Stop Bit, Parity, Flow Control, PTZ Address should be exactly the same as those of the control device.

#### Note:

This function is only for Speed Dome.

# 4.5.7 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		Log Search
017-09-04 13:35:41	Operation	RTSP Session Stop	2	-	192.168.8.50	stop one session.	~	Main Type:
017-09-04 13:29:18	Operation	RTSP Session Start	- 1	25	192.168.8.50	start one session.		All Types
017-09-04 13:29:14	Operation	RTSP Session Stop	-1	-	192.168.8.50	stop one session.		Sub Type:
)17-09-04 13:28:54	Operation	RTSP Session Start	27	925	192.168.8.50	start one session.		All Trace
017-09-04 13:28:53	Operation	Login Remotely	-	admin	192.168.8.50	-		All Types
017-09-04 05:50:00	Information	IR-CUT On	-		×	-		Start Time:
017-09-03 18:35:25	Information	IR-CUT Off	-	-	-	2		2017-09-04 00:00:00
017-09-03 05:43:58	Information	IR-CUT On	75	1070	5.	-		End Time:
017-09-02 18:37:57	Information	IR-CUT Off	-	-	π.	-		2017-09-04 13:30:26
017-09-02 05:41:22	Information	IR-CUT On	28	122	ž.	12		Search
017-09-01 18:43:37	Information	IR-CUT Off	-		5	5		
017-09-01 17:00:57	Operation	RTSP Session Stop	=	100	192.168.8.50	stop one session.		
017-09-01 16:55:24	Event	Motion Detection Stop	2	-	2	2 2		Log Export
017-09-01 16:55:19	Operation	RTSP Session Start	-	3 <b>8</b> 3	192.168.8.50	start one session.		Save Period:
017-09-01 16:55:17	Operation	RTSP Session Stop	-	-	192.168.8.50	stop one session.	~	Permanent
		Motion Dotection						

#### Table 4-5-20 Description of the buttons

Parameters	Function Introduction
Main Type	There are five main log types: All Type, Event, Operation, Information, Exception.
Sub Type	On the premise 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: <b>Permanent</b> and <b>30/60/120/180/240/300/360 Days.</b>
Go	Input the number of logs' page.

# 4.6 LPR(Optional)

# 4.6.1 Live Video

Milesight LPR Camera supports professional LPR Live View interface, it can show the real-time license plate recognition results and display the snapshots of detected license plates, which realizes a stand-alone LPR solution.



#### Note:

For Snapshot/Recording ( , you can click to capture/record the current image/video ,but only when you using the IE browser with plugin, it will automatically be saved to the configured path on your PC and pop up the corresponding folder. If you using the Chrome/Firefox/Safari/Edge browser in Plugin-Free Mode, it will not automatically pop up the corresponding folder to show you the details.

# 4.6.2 Settings

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

#### Note:

 LPR is optional for 12X AF Motorized Pro Bullet, Mini PoE PTZ Bullet, ABF Pro Box, Vandal-proof Motorized Mini Bullet, Motorized Pro Bullet Network Camera, Mini Bullet Network Camera.
 Currently we have three LPR versions, LPR1, LPR2 and LPR3. LPR1 is for Asian regions, LPR2 is

for European regions and the former Soviet Union and LPR3 is for Korea. For more information, please refer to *Milesight-Troubleshooting-LPR setting-LPR1*,

Milesight-Troubleshooting-LPR setting-LPR2, Milesight-Troubleshooting-LPR setting-Korea.

## General

Milesight Network Came	era			🔔 admin 🕒 Logo
Milesight	LPR >> Settings			
Live Video	General List Management Black List Mode White L	ist Mode Visitor Mode		
Playback		Enable License Plate Recognition:	8	*
Basic Settings		License:	a13d45b0550786e4dc1172	
@ Advanced Settings		Processing Resolution:	1280*720 *	
		Image Settings		
Settings		Enable LPR Night Mode:		
Smart Search		Set LPR Detection Region Effective Region Settings:	Advanced *	
System		Effective with Presets:	Preset 4 v	
Maintenance				

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

Enable License Plate Recognition:	$\mathbf{V}$
License:	7325220EC7B6C181B38A
License Status:	Valid
Processing Resolution:	1280*720

**Note:** Only LPR2 and LPR3 need to enter a license to activate the LPR function.

Step2: The LPR Night Mode supports the optimal LPR night recognition effect by adjusting different parameter levels.

Image Settings	
Enable LPR Night Mode:	$\checkmark$
Start Time:	18 🗸 00 🗸
End Time:	06 🗸 00 🗸
Level:	40

Step3: Check the checkbox "Enable License Plate Recognition", you can draw the screen to select area interested.

Parameters	Function Introduction
License (Only for LPR2 and LPR3)	Generated by camera's information
License Status (Only for LPR2 and LPR3)	Show present license status, including <b>Valid</b> and <b>Invalid</b> .
Processing Resolution	Resolution of the stream for LPR analysis, including 1920*1280, 1280*720, 640*360, 320*176.
Country/ Region (Only for LPR1)	Select country/ region to detect the license plate.
Effective Region Settings (Only for PTZ series)	Normal: configure the LPR detection regions for the current area. Advanced: configure different LPR detection regions for different PTZ presets(Only support Preset 1~4 so far).
Enable Day/Night Detection Mode (Only for LPR3)	With this option enabled, the camera will enable different detection modes according to Day/Night mode.
Enable Vehicle Speed Detection (Only for LPR3)	With this option enabled, the camera will detect the vehicle speed and display results on the Smart Search interface. You need to draw two lines(Line1 and Line2) on the live view, and fill in

Table 4-6-1	Description	of the	buttons

📀 Milesight



#### Step4: Schedule Settings. You can draw the schedule by clicking Edit button.



Step5: Set Detection Settings and LPR Message Post Settings.

Detection Settings	
Detection Trigger:	Always
Confidence Level:	
Repeat Plate Checktime:	0 millisecond ✔ (0~60000ms)
License Plate Serial Format:	Edit
Features Identification:	All       Direction       Region
LPR Message Post Settings	
Enable LPR Message Post:	$\blacksquare$
Post Type:	TCP
Camera LPR Port:	3344

Table 4-6-2 Description of the buttons

Parameters	Function Introduction
	Always: in this mode, camera will always detect license plates.
Detection Trigger	Alarm Input: in this mode, camera will only detect license plates during
	Alarm Input is being triggered.
	You can set the confidence level from 1 to 10.
Confidence Level	When the confidence level of the license plate is higher than the set
(Only for LPR1 and LPR2)	confidence level, it will push the license plate image to the Smart Search
	interface.
	Set the time interval for repeatedly reading license plates to effectively avoid
Repeat Plate Checktime	duplicate identification of parking vehicles.
	You can set Repeat Plate Checktime from 0 to 60min or 0 to 60000ms.
	Check Region(Only for LPR2), ROI_ID, Direction or All to enable Feature
Feature Identification	Identification, it will display the corresponding information on the Smart
	Search interface.
	Check the checkbox to enable LPP Message Post. It will push information to
Enable LPR Message Post	come third party devices or coffware that are compatible with ours
Post Type	Information can be pushed by <b>RTSP_TCP</b> or <b>HTTP</b>
гозстуре	

#### Note:

License Plate Serial Format function supports formulating identification rules and can automatically do further processing, filter license plates in non-compliant formats to achieve more intelligent and accurate license plate recognition.

Milesight Network Carr	era	💄 admin 🕞 Logout
<ul> <li>Milesight</li> <li>Live Video</li> <li>Playback</li> <li>Local Settings</li> <li>Basic Settings</li> <li>Advanced Settings</li> <li>LPR</li> <li>Settings</li> <li>Settings</li> <li>System</li> <li>System</li> <li>Maintenance</li> </ul>	EVR >> Settings         Milesignt Network Camera       Vator Mode         Vielesignt Network Camera       Image: Camera         Image: C	
	Post Type: TCP V Camera LPR Port: 3344	v

# List Management

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

Miles	sight Network Cam	nera					💄 admin 🗜 Logou
0	Milesight	LPR >> Settings					
	Live Video	General List Management B	lack List Mode White List Mod	de Visitor Mode			
	Playback			List Management			^
le le	Local Settings			License Plate:	White V AE42683		
¢	Basic Settings			Batch Upload:	Upload Ü		
ø	Advanced Settings		Chow 10 M ontring				
-	LPR		License Plate	Plate Ty	pe	List Search	
	Settings		DW42639	White		Plate Type:	
	Smart Search		DD12639	Black		All 🗸	
-	System		DD12312	Black		License Plate:	
Ō	Maintenance		AE42683	White		Search Export List Delete List	
							~

Table 4-6-3 Description of the buttons

Parameters	Function Introduction
Add License Plate	Select the license plate type as black or white, enter the license plate, click the "Add" button, the license plate will be added successfully.
Batch Upload	You can add a csv form with the license plate you want to add, click the "Browse" button to import the form to this interface, click the "Upload" button, the license plates will be added successfully. Note: You can first download the template as a reference in this interface.

Milesight

List Search	Select Plate Type or directly enter the license plate number, click the "Search" button, the corresponding license plate will be displayed in the list below.
Export List	Click the "Export List" button to export the license plate in the current list to a csv form locally.
Delete List	Click the "Delete List" button to delete all the license plate in the current list.

Note: It supports adding 1000 Black List and White List.

# **Black List Mode**

Milesi	ght Network Carr	nera	🔔 admin 🕞 Logout
<b>(</b>	Milesight	LPR >> Settings	
	Live Video	General List Management Black List Mode White List Mode Vis	itor Mode
	Playback	Enable Blac	<pre>cList Mode:</pre>
in .	Local Settings	Schedule S	ettings
¢	Basic Settings	5un	
0°	Advanced Settings	Tue	
-	LPR	Thu - Fri -	
	Settings	Sat -	
	Smart Search	00 01 02	U3 U4 U5 U6 U7 U6 U5 U7 U6 U5 U7 U6 U7 U7 U6 U7
	System		
		Alarm Activ	n
0	Maintenance	Save Into SI	orage: File Format: Snapshot
		Upload Via	TP: File Format: Record
		Upload Via	imali: 🛛 File Format: Snapshot 🔽
		External Ou	put: CPlease configure the External Output Action Time.)
		Alarm to SIF	Phone: (Please open the SIP.)

Step1: Check the checkbox to enable Black List Mode.

Step2: Schedule Settings. You can draw the schedule by clicking Edit button. Step3: Set alarm action.

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

## Step4: Set alarm settings.

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

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

# White List Mode

Miles	ight Network Can	mera 🙎	admin 🕒 Logout
¢	Milesight	LPR >> Settings	
	Live Video	General List Management Black List Mode White List Mode Visitor Mode	
	Playback	Enable White List Mode:	^
-	Local Settings	Schedule Settings	- 11
ø	Basic Settings	5an	- 11
ø	Advanced Settings	Tuz - West - West	- 11
-	LPR	Ти – га –	- 11
	Settings	54 . 00 01 02 03 04 05 66 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	
	Smart Search		
	System	CA.	
		Alarm Action	
Ô	Maintenance	Save Into Storage:	
		Upload Via FTP. File Format: Record	
		Upload Via Email: Crie Format: Snapshot	
		External Output:	
		Alarm to SiP Phone: (Please open the SiP.)	~

Step1: Check the checkbox to enable White List Mode.

Step2: Schedule Settings. You can draw the schedule by clicking Edit button. Step3: Set alarm action.

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



Step4: Set alarm settings.

Alarm Setting	
Record Video Sections:	5 seconds 🗸
Pre-record:	0 second 🗸
napshot Type:	License Plate 🗸
napshot:	3 🗸
napshot Interval:	1 second V
ternal Output Action Time:	30 seconds 🗸
idio Action Settings:	Edit
ay Audio Interval:	Auto

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

## **Visitor Mode**

Miles	ight Network Cam	lera	💄 admin 📑 Logout
0	Milesight	LPR >> Settings	
	Live Video	General List Management Black List Mode White List Mode Visitor Mode	
	Playback	Enable Visitor Mode: 😡	^
ter.	Local Settings	Schedule Settings	
ø	Basic Settings	5an -	
ø	Advanced Settings	Tue	
-	LPR	77u - Fri -	
	Settings	Sat 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 3	0 21 22 23 24
	Smart Search		
	System	Edd	
		Alarm Action	
	Maintenance	Save Into Storage: Z File Format: Snapshot	Reco 🗸
		Upload Via FTP:  File Format: Record	
		Upload Via Email:	
		External Output: CPlease configure the Ext	mal Output
		Alarm to SIP Phone:	~

Step1: Check the checkbox to enable Visitor Mode.

Step2: Schedule Settings. You can draw the schedule by clicking Edit button. Step3: Set alarm action.

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

Step4: Set alarm settings.

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

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

# 4.6.3 Smart Search

The real-time detection results will be displayed on the right side of Smart Search page, including detected time, live screenshot, and license plate.

Step1: Select Plate Type or directly enter the license plate number and then select Start Time and End Time. The related license plate information will be displayed as below by one click on the **"Search"** button.



#### Note:

(1) It supports displaying 4,000 logs.

(2) Only when there is a SD Card or NAS has been set on the storage management , then the logs can be stored and show on Smart Search page.





Step2: Click on the thumbnail photo under the LPR Logs, then the license plate details will be shown as below :



Step3: Click the "**Export**" or "**Export All**" button to export the desired files in the current list to a local folder.

xport File:	□ Plate List □	] Video 🗌 Pic
/ideo File Format:	MP4	~

Step4: Click the "Auto Export" button to automatically export the logs to FTP, SMTP or Storage.

Enable Auto Export Logs:	
Day:	Wednesday 🗸
Time:	00:00:45
Export Time Range:	Last 1 week
Export to:	FTP SMTP Storage



# 4.7 System

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

System	
Device Name:	Network Camera
Product Model:	MS-C2961-EB
Hardware Version:	V1.3
Software Version:	40.7.0.74
MAC Address:	1C:C3:16:21:98:04
Device Information:	SE010E5270N3
Alarm Input:	1
Alarm Output:	1
Uptime:	3 days 22 hours 44 minutes
QR Code:	Please scan this QR code on App to get a remote view.

Table 4-7-1	. 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

#### Note:

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

# 4.8 Maintenance

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# 4.8.1 System Maintenance

System Upgrade	
Software Version:	40.7.0.74
Local Upgrade:	Browse Upgrade Reset after Upgrading
Online Upgrade:	Check
Note: Do not disconnect the powe	er of the device during the upgrade.
Maintenance	
Reset Keep the IP Configuration Keep the User Information	Reset
Export Config File:	Export
Config File:	Browse
Import Config File:	Import
Reboot	
Reboot the Device:	Reboot

#### Table 4-8-1 Description of the buttons

Parameters	Function Introduction
	<ul> <li>Software Version: The software version of the camera.</li> <li>Local Upgrade: Click the "Browse" button and select the upgrading file, then click the "Upgrade" button to upgrade. After the system reboots successfully, the update is done.</li> <li>You can check "Reset after Upgrading" to reset the camera after upgrading it.</li> <li>Online Upgrade: Click the "Check" button to check the current latest firmware version on our website, and then click "OK" to upgrade to this version.</li> </ul>
System Upgrade	Milesight Network Camera         Image: Newer version 40.7.0.73-r7 detected, upgrade?         Image: OK       Cancel         It will prompt "The current version is the latest version" if your camera is already the latest version.

	Milesight Network Camera
	The current version is the latest version.
	ок
	<b>Note:</b> Do not disconnect the power of the device during the update. The device will be restarted to complete the upgrading.
	Reset settings: Click "Reset" button to reset the camera to factory default
	settings
	Keep the IP Configuration: Check this option to keep the IP configuration when
Maintenance	resetting the camera.
	Keep the User information: Check this option to keep the user information when
	resetting the camera.
	Export Config File: Click this button to export the configuration file
	Import Config File: Click this button to import the old configuration file
Reboot	Click "Reboot" button to restart the device immediately

# 4.8.2 Auto Reboot

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

Enable Auto Reboot	
Day:	Everyday 🗸
Time:	00:00:00



# **Chapter V Services**

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

Technical Support Mailbox: support@milesight.com Web: http://www.milesight.com Online Problem Submission System: http://www.milesight.com/service/feedback.asp

MILESIGHT USA TEL: +1-800-561-0485 Add: 220 NE 51<sup>st</sup> ST Oakland Park, FL 33334, USA

MILESIGHT KOREA

TEL: +82-2-839-3335 Add: 925, Anyang SK V1 Center, LS-ro 116beon-gil, Dongan-gu, Anyang-si, Korea

MILESIGHT CHINA TEL: +86-592-5922772 Add: No.23 Wanghai Road,2nd Software Park, Xiamen, China

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