

PTZ Network Camera User Manual

V2.10

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.

	Miles	sight H.265 PTZ Network	Camera
Type Megapixel	2MP	4MP	5MP
(PoE) Speed Dome Network Camera	MS-C2942-(R)(P)B	-	MS-C5342-(H)(P)B
12x Mini (PoE) PTZ Bullet Network Camera	MS-C2961-(R)E(P)B/ MS-C2961-(Q)(R)EL(P)B	MS-C4461-E(P)B	MS-C5361-(H)E(P)B

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

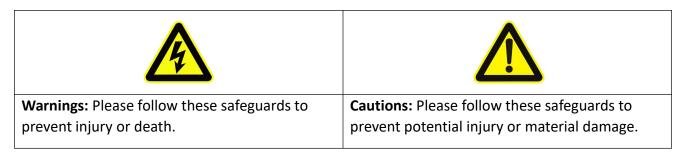
Industry Canada ICES-003 Compliance:

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.

- 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, 12x Optical Zoom for Mini (PoE) PTZ Bullet
- ♦ 360° continuous pan and 0°~ 90° auto flip tilt for (PoE) Speed Dome
- ♦ 360° continuous pan and -45°~30° tilt for Mini (PoE) PTZ Bullet
- ♦ 255 Preset Points and 8 Patrols
- ♦ Based on Linux OS with high reliability
- ♦ H.265/ H.264/ MJPEG video compression capability
- ♦ Support Plugin-Free mode
- ♦ Support Smart Stream
- ♦ Support ONVIF Profile S & G
- Support activation and set-up of the security questions for cameras(V4x.7.0.69 orabove)
- ♦ 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
- ♦ 3D Positioning, PTZ Motion, PTZ Limit, Scheduled Tasks and Auto Home function
- ♦ White LED for Mini (PoE) 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
- ♦ 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. (PoE) Speed Dome Network Camera

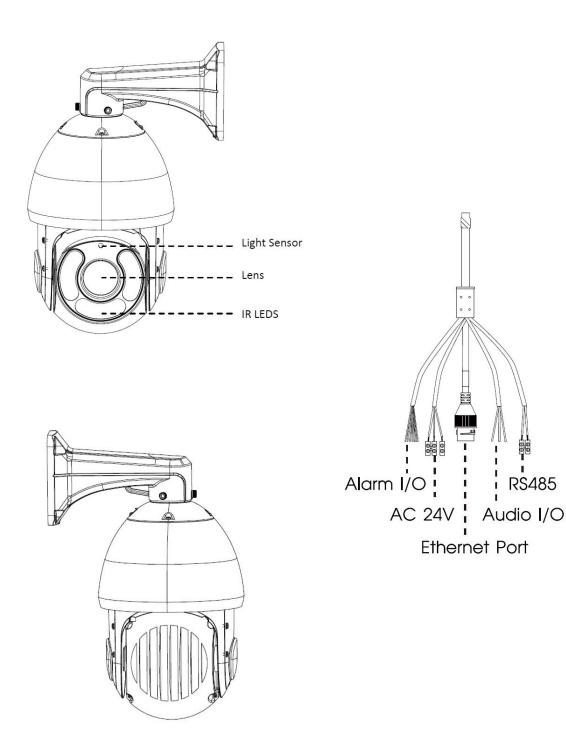


Figure 1-3-1 (PoE) Speed Dome Network Camera

Note:

- 1) AC 24V and PoE are available for power supply.
- 2) Built-in SD card slot can be seen after removing the 4 screws and open the front panel.



2. 12x Mini PoE PTZ Bullet Network Camera

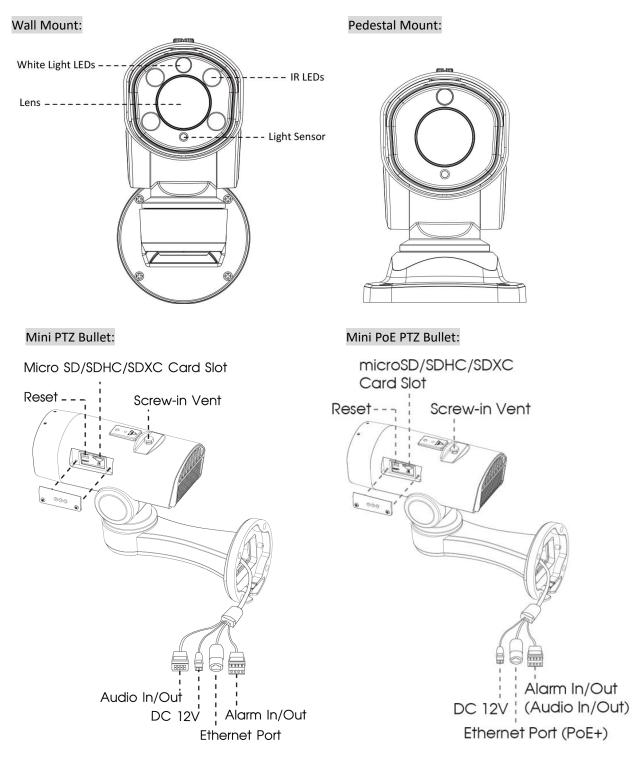


Figure 1-3-2 12x Mini PoE PTZ Bullet Network Camera

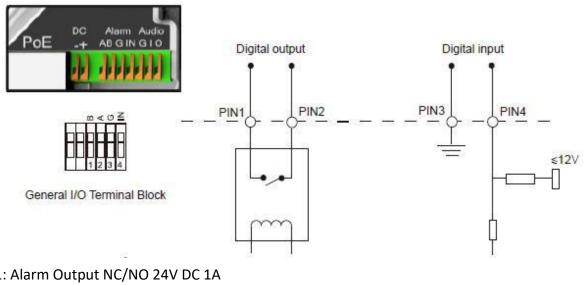
Note:

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.

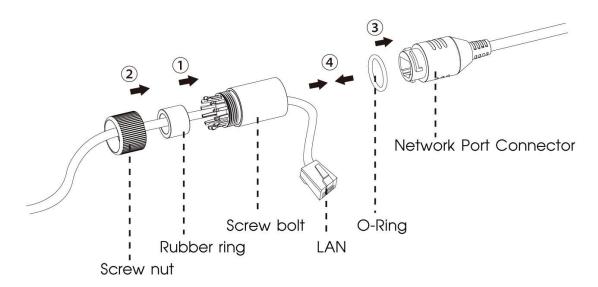
1.4 How to Connect to Alarm Interface

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.

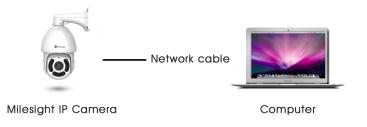


Figure 2-1-1 Connect the camera to the PC directly

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.

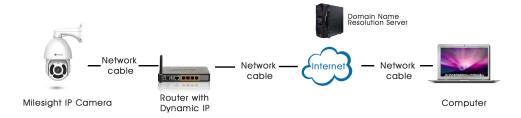


Figure 2-2 Connect the network camera via a router using dynamic IP

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. The default user name is "admin", and password is "ms1234".

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

3.1.1 Assigning An IP Address Using Smart Tools

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

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

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

Network Setting Preview Uggade admin No. Device Name Status MAC P A Port Netmask Galeway Model Rueyorin Vision 58 Network Camera Adlive 1C:C3:16:22:0C:74 192:168.7.81 80 255:255:240.0 192:168.7.1 MS-C8262:FFB 2019:03-01 417.0.67:11 Galeway 60 MS-C2975:FB Adlive 1C:C3:16:23:0C:44 192:168.7.100 80 255:255:240.0 192:168.7.1 MS-C8262:FFB 2019:03-01 417.0.67:11 Galeway 61 Network Camera Adlive 1C:C3:16:24:60:DE 192:168.7.100 80 255:255:240.0 192:168.7.1 MS-C2962:FFB 2019:03-01 407.0.68 Galeway 62 Network Camera Adlive 1C:C3:16:24:60:DE 192:168.7.10 80 255:255:240.0 192:168.7.1 MS-C2962:FFB 2019:03-01 407.0.68 Galeway 407.0.68 <th>5</th> <th></th> <th></th> <th></th> <th></th> <th>- 🛞 -</th> <th></th> <th><u></u></th> <th>_ @</th> <th></th> <th></th> <th>☆ — □</th> <th>×</th>	5					- 🛞 -		<u></u>	_ @			☆ — □	×
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Image: Construct the second	C	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	15:35:33	40.7.0.68-r7	C
Image: Second state Image: Second state<	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		41.7.0.69-r2	C
67 Network Camera Adive 1C:03:16:11:02:40 192:168.7.100 80 255:255:255.0 192:168.7.1 NO3263-PNA 11:07:21 30.7.163:420 30.7.163:420 C 68 Network Camera Adive 1C:03:16:12:02:10:0B 192:168.7.202 80 255:255:240.0 192:168.7.2 MS-C9674-PB 2019-02:27 42.7.0.67-r1 30.7.163:420 0/353 Device Name: IP: Port: Netmask: Gateway: DNS: 0/353 Device Name: IP: Port: Netmask: Gateway: DNS: Ø/Activate Lexport Device List X Modify	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		41.7.0.67-a4	e
68 Network Camera Active 1C/C316/22/01/08 192/168/72 MS-C96/4/PB 17:11:14 42/70.67/11 42/70.67/11 68 Network Camera Active 10 17:11:14 42/70.67/11 10 67 Device Name: 17:11:14 10 10 10 111:14 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 11 10<		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		30.7.1.63-r20	C
0/353 Device Name: IP: IP: III Port Port Netmask: III Control Of Stateway: III Control ONS: IIII CONTROL ONS: III CONTROL ONS: IIII CON	C	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	17:11:14	42.7.0.67-r1	C
Activate 🛃 Export Device List 🗙 Modify	6		000		10.00.10.01.01.10	100 100 7 010	- 00	055.055.040.0	100 100 7 1	HO 00030 500	2019-03-07	10 7 0 00 0	-
	0/353	; U	Device Name:		P:	Port.		Netmask: 🦲		Gateway:	. DN	IS:	
Operating Information									(3) Activate	Export Device Li	st 🗶 Mod	
	Opera									9 0		\bigcirc	
											😐) Sav	e 🙁 Clear	2
🗳 Save 💌 Clear							V2					9	

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

				Network	Setting		Preview	Upgrade		Q (Sear	ch here
•	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time 2019-03-11	Version
C	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	40.7.0.67-r6
ſ	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	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 08:32:58	41.7.0.67-r1
ſ	61	MS-C2975-PB	Active	1C:C3:16:24:60:DE	192. <mark>168</mark> .7.93	80	255.255.240.0	192.168.7.1	MS-C2975-PB	2019-03-11 16:38:04	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
ſ	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	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
ſ	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	40.7.0.68-r7
	66	MS-C3772-FIPB	Active	1C:C3:16:21:FA:67	192.168.7. <mark>1</mark> 28	80	255.255.255.0	192.168.7.2	MS-C3772-FIPB	2019-03-07 10:14:26	41.7.0.69-r2
ſ	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 09:14:10	41.7.0.67-a4
C	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-r20
-			1.10			- 00		100 100 7 0		2019-02-27	
		Device Name: (letwo	rk Camer	a IP: 192.168.7 .	100 Port 80	_	Netmask: 25	5.255.240.0	Gateway: 192.1	168.7 .1 DN	ISI 8 .8 .8 .8
									🕖 Activate 🔳	Export Device Li	st 🗶 Modi
	ting Info							2		, ENDOISDON 00 E	

Select single camera

	No.	Device Name	Status	MAC	IP A	Port 80	Netmask	Gateway	Model	Run-up Time 2019-03-11	Version 40.7.0.67-r6
C	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	14:14:32 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>168.7.</mark> 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	255.255.240.0	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
r	65	Network Camera	Active	1C:C3:16:24:5F:53	192.168.7. <mark>1</mark> 13	80	255.255.240.0	192.168.7.1	MS-C2975-EPB	2019-03-11 15:35:34	40.7.0.68-r7
C	66	MS-C3772-FIPB	Active	1C:C3:16:21:FA:67	192.168.7. <mark>1</mark> 28	80	255.255.255.0	192.168.7.2	MS-C3772-FIPB	2019-03-07 10:14:26	41.7.0.69-r2
ſ	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	41.7.0.67-a4
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 11:07:21 2019-02-27	30.7.1.63-r20
		📑 Same IP 🛛 🕄	Start IP: 🕻	192.168.7 .100	Port 80		Imask: 255.255.	240.0 @	ateway: 192.168.	7.1 DNS	8.8.8
Onerat								(🕗 Activate 👌	Export Device Li	st 🗶 Mod
opena											

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;

100		PC Tools			Setting		Preview	Upgrade		A ms1		-
800	1		Lange State			1000000000		1.2		Q Sea	rch here	a.
•	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time 2019-03-11	Version	
C	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	40.7.0.67-r6	
0	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	
C	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	
r	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 16:38:03	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	255.255.240.0	192.168.7.1	MS-C2972-FPB	2019-03-07 09:16:00	40.7.0.68-r3	
C	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	
ſ	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	
r	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	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	
C	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-r20	
<u> </u>			1.12	10.00.10.00.01.00	100 100 3 000		055.055.010.0	100 100 7 0		2019-02-27		
1/354	: [Device Name: (letwo	rk Camer	a IP: 192.168.7 .	100 Port 8	2	Netmask 25	5.255.240.0	Gateway: 192.1	168.7 .1 DN	IS: 8.8.8.8	
								(🕖 Activate 上	Export Device L	ist 🔀 Moo	dif
Opera										/		

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

above), click *Octivate* 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.

Ĩ			()) —	- 🛞		- 6		adn	¢ — □	×
			Network					A Pas	sword rch here	
		No. Device Nam	Status MAC	IP 🔺	Port Netmask	Gateway	Model	Run-up Time	Version	
		59 Network Came	era 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
N		C 00 Naturdi Osmi	- 1000140040000	400 400 7 74			MS-C3762-FIPB	2018-12-21 17:43:15	41.7.0.65-pwd- a6	0
2	IPC Tools		Activation			× 168.5.1	MS-C4472-FIPB	2018-12-24	41.7.0.68-a6	C
						168.7.1	MS-C2975-PB	2018-12-24 17:02:43	40.7.0.68	e
		(3)				168.7.1	MS-C5362-EPB	2018-12-18 16:10:37	41.7.0.65-pwd- a6	6
- 1		0				168.2.1	MS-C2862-FPB	2018-12-21 16:44:30	41.7.0.68-a6	C
- 1		User Name: adr	nin			168.5.1	MS-C2963-PB	2018-12-18 13:38:35	40.7.0.67-r21	C
- 1		Password:				168.7.1	MS-C2972-FPB	2018-12-20 13:27:14	40.7.0.67-r10	e
- 1		Confirm:	1			168.7.1	MS-C5372-FIPB	2018-12-18 22:18:58	41.7.0.67-ptz- dome-a6	d
- 1			at's your father's name?			168.7.2	MS-C3772-FIPB	2018-06-15 17:10:58	41.7.0.65-r4	C
- 1	NVR Tools	Security Answer 1:	ar a your futier a futier			168.7.1	MS-C4482-PB	2018-12-20 16:15:03	41.7.0.65-pwd- a6	d
- 1			at's your father's name?		-	1		2019 07 04		11
- 1		Security Answer 2:	•			255.0	Gateway: 192.1	68.5 .1 DI	8. 8. 8 B	5
- 1		Security Question 3: Wh	at's your father's name?		-		()) Activate	Export Device L	.ist 🗶 Modify	
- 1		Security Answer 3:							0	
- 1	(+)						(2)			
- 1										
- 1										
- 1	Calculators									
- 1					4	Save		😐) Sa	ve 🙁 Ciear	
					V2.4.0.1-a8				<u> </u>	

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

Step5: Change the IP address successfully;

		PC Tools					Ipgrade			1234	
Party and the second se									Q Sea	rch here	
•	No.	Device Name	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	
•	1	Network Camera	1C:C3:16:21:A5:F3	192.168.7.113	80	255.255.240.0	192.168.7.1	MS-C5362-FIPB	2018-05-21 09:55:22	41.7.0.65	
r	2	Network Camera	1C:C3:16:21:7F:96	192.168.1.176	80	255.255.255.0	192.168.1.1	MS-C4463-PB	2018-05-15 15:11:21	41.7.0.63-r12	
	3	Network Camera	1C:C3:16:21:A4:67	192.168.2.110	80	255.255.252.0	192.168.2.1	MS-C5362-FPB	2018-05-17 10:57:53	41.7.0.65-r3	
C	4	Network Camera	1C:C3:16:22:0B:53	192.168.2.111	80	255.255.252.0	192.168.2.1	MS-C8262-FLPB	2018-05-17 16:28:23	43.7.0.63-LPR	
ſ	5	Network Camera	1C:C3:16:20:00:FB	192.168.2.112	80	255.255.240.0	192.168.2.1	MS-C2962-RFIPB	2018-05-18 13:44:45	41.7.0.63-tta3	ŋ
	6	Network Camera	1C:C3:16:21:D2:A7	192.168.2.114	80	255.255.240.0	192.168.2.1	MS-C2963-FPB	2018-05-21 17:28:37	40.7.0.65	
C	7	Network Camera	1C:C3:16:21:C5:84	192.168.2.119	80	255.255.252.0	192.168.9.1	MS-C4461-EB	2018-05-18 09:04:50	40.7.0.65	
r	8	Network Camera	1C:C3:16:21:A3:89	192.168.2.122	80	255.255.252.0	192.168.8.1	MS-C4472-FPB	2018-05-21 19:57:39	40.7.0.65- onviftest	
ſ	9	Network Camera	1C:C3:16:22:0A:46	192.168.2.129	80	255.255.240.0	192.168.2.1	NC9674-PB	2018-05-09 13:40:32	42.7.1.65-a4	
ſ	10	MS-C2962-FPB	1C:C3:16:21:BB:C3	192.168.2.136	80	255.255.240.0	192.168.2.1	MS-C2962-FPB	2018-05-17 21:11:19	40.7.0.63-a5	
C	11	Network Camera	1C:C3:16:23:09:6D	192.168.2.137	80	255.255.252.0	192.168.8.1	MS-C3751-PB	2018-05-21 13:48:33	40.7.0.65	
		Device Name: (letwo	rk Camera IP: 19	2.168.7 .113	Port (80 Netm	ask: (255.255.	240.0 Gateway:	192.168.7 .1 Di	NS: 8 .8 .8	
								🚣) Exp	ort Device List \pm C	ount 🔀 Mo	
Opera	ting Info	rmation						<u> </u>	_	<u> </u>	
1	201	8-05-21 20:11:54		[1C:C3:1	6:21:A5:	F3] Modify IP:192	.168.7.111->192	168.7.113 successfull	ly.		

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: English *	
Wilesight User Name Password • Remomber me? Login	
Download Plugin for Network Camera Copyright © Millesight 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:

📀 Milesight

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

eneral	
 Obtain an IP address ad Obtain an IP address ad Obtain an IP address ad 	A SHE IS A SHE IN A ST
IP address:	192 . 168 . 1 . 10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.1.1
 Obtain DNS server addr Use the following DNS s Preferred DNS server: Alternate DNS server: 	
Validate settings upon	exit Advanced

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);

Settings DNS W	/INS		
IP addresses			
IP address		Subnet mask	
192.168.1.10		255.255.255.0	
	Add	Edit	Remove
Default gateways:			
Gateway		Metric	
192.168.1.1		Automatic	
	c		
	Add	Edit	Remove
Automatic metric			
Interface metric:	-]	
/IP Address		OK	Cance
address:	192 .	168.5.6	51
			0

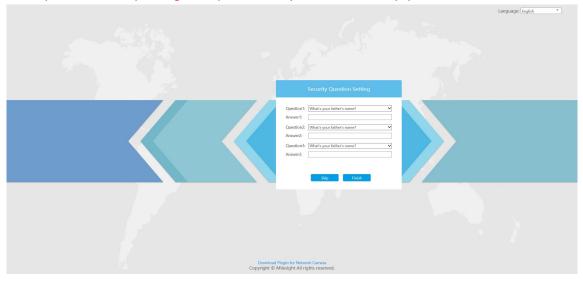
Step2: Start the browser. In the address bar, enter the default IP address of the camera: http://192.168.5.190; Step3: If the camera's firmware version is lower than V4x.7.0.69, it will directly display the login page, enter the user name and password when the LOGIN page appears; Default user name: admin



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

Note:

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



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

Mile	sight Network Can	mera	💄 admin 🛛 🕞 Logout
	Milesight	Basic Settings >> Network	
1.1	 Live Video 	TCP/IP HTTP RTSP UPnP DDNS Email FTP VLAN PPPoE SNMP 802.1x	
	Playback	O Get IPv4 address automatically	
		Ouse fixed IPv4 address	
6	 Local Settings 	IP Address: [192. 168. 7 . 200] Test	
e	Basic Settings	IPv4 Subnet Mask: 255. 255. 240. 0	
	Video	IPv4 Default Gateway: 192. 168. 7 . 1	
	Image	Preferred DNS Server: 8 . 8 . 8	
	Network	IPv6 Mode: Manual	
	Date & Time	IPv6 Address:	
	Date & Time.	IPv6 Prefix:	
đ	Advanced Settings	IPv6 Default Gateway:	
9	System	See	
C	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

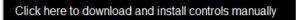
Before using the browser to get access to your camera, you need to install the MsActiveX firstly. You can refer the steps as follows:

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

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

(The default user name is "admin", password is "ms1234")

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



Note:

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

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





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";

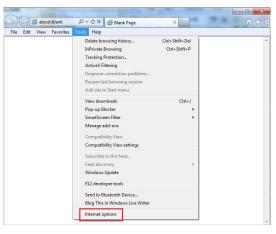
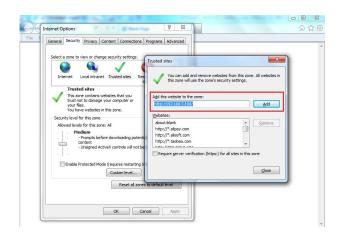


Figure 3-2-3 To add the permission

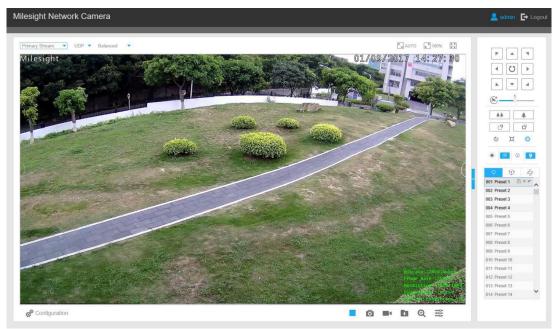
Step2: Select "Security" to "Trusted";



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

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

Note:

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

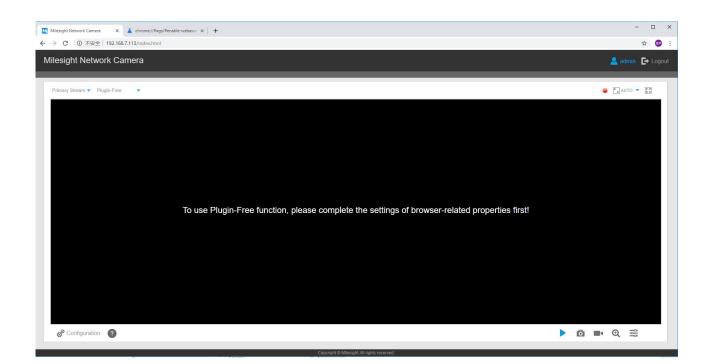
(2) If you use Chrome browser, Plugin-Free mode is only supported when the browser version is V69 or above.

③ If you use Firefox browser, Plugin-Free mode is only supported when the browser version is V65 or above.

(1) On Chrome browser

Step1: Access camera via Chrome browser.

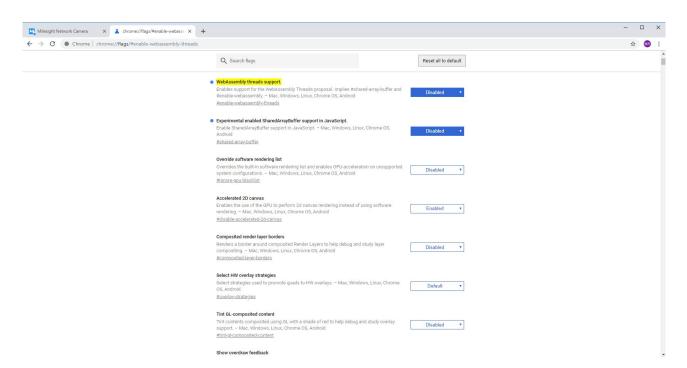
Milesight



Step2: Click " ^② " icon in the lower left corner of the webpage, you can refer to Plugin-Free Mode instruction below.

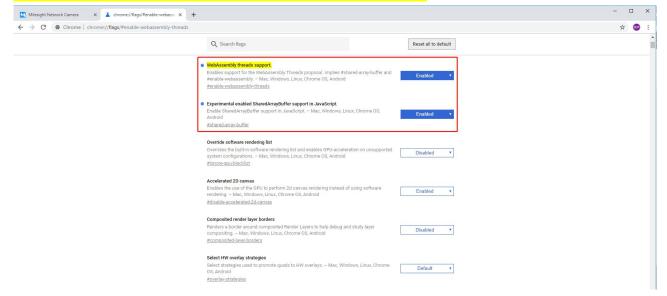
Plugin-Free Mode instruction:
Step 1:
Input the URL in address bar:
chrome://flags/#enable-webassembly-threads
Step 2:
Set 2 flags to True status and reboot browser:
WebAssembly threads support.
Experimental enabled SharedArrayBuffer support in
JavaScript.

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



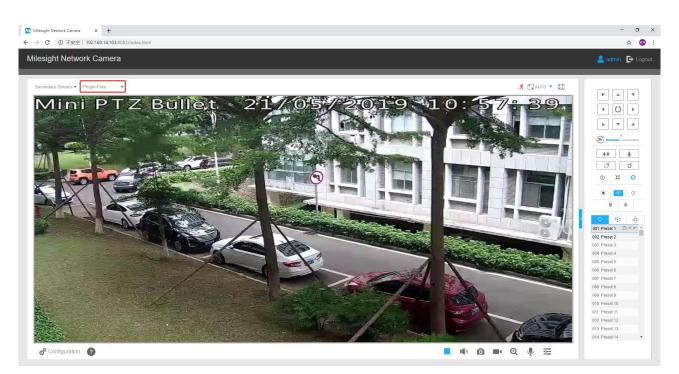
Step4: Set 2 flags to True status and reboot browser: --WebAssembly threads support.

--Experimental enabled SharedArrayBuffer support in JavaScript



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





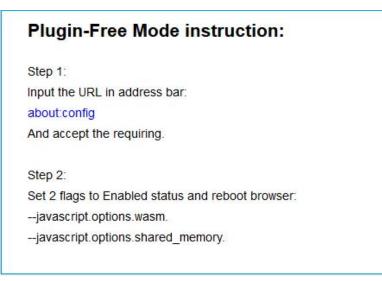
It supports previewing the video in Live View and other setting interfaces.

(2) On Firefox browser

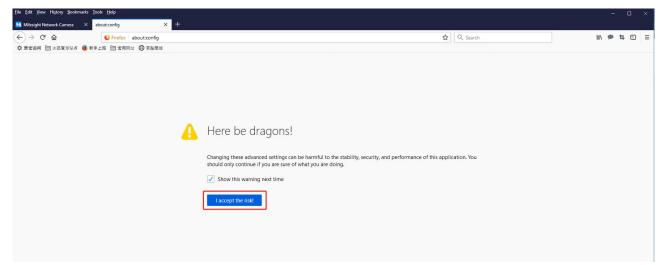
Step1: Access camera via Firefox browser.

File Edit View History Bookmarks Iools Help				
Likeight Network Camera X +				
(€) → C [*] (Δ) (0) 192.168.7.113/index.html ••• (Δ) Q. Search		lii\ 🕊	• 14 0	≡ נ
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Milesight Network Camera		💄 admin	E+ Lo	
Primary Stream Plugin-Free	•	K AUTO 🔻	K N K N	
To use Plugin-Free function, please complete the settings of browser-related properties first!		1		
ත් [®] Configuration 👔	0	101		

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



Step3: Input the URL in address bar: about:config And accept the requiring.



You will enter the webpage shown below.

<u>File Edit View History Bookmarks Iools Help</u>				- o ×
Milesight Network Camera × about:config × +				
← → C ⁱ ŵ Virefox abouttconfig			🗘 🔍 Search	li\ 🗭 🕇 🗊 🗄
✿ 最常访问 □ 火狐官方站点 🧶 新手上路 🗀 常用网址 🕲 京东南城				
Search: 🔎				
Preference Name	▲ Status	Туре	Value	
accessibility.AOM.enabled	default	boolean	false	
accessibility.accesskeycausesactivation	default	boolean	true	
accessibility.blockautorefresh	default	boolean	false	
accessibility.browsewithcaret	default	boolean	false	
accessibility.browsewithcaret_shortcut.enabled	default	boolean	true	
accessibility.delay_plugin_time	default	integer	10000	
accessibility.delay_plugins	default	boolean	false	
accessibility.force_disabled	default	integer	0	
accessibility.handler.enabled	default	boolean	true	
accessibility.indicator.enabled	default	boolean	false	
accessibility.lastLoadDate	modified	integer	1556507468	
accessibility.loadedInLastSession	modified	boolean	true	
accessibility.monoaudio.enable	default	boolean	false	
accessibility.mouse_focuses_formcontrol	default	boolean	false	
accessibility.support.url	default	string	https://support.mozilla.org/%LOCALE%/kb/accessibility-services	
accessibility.tabfocus	default	integer	7	
accessibility.tabfocus_applies_to_xul	default	boolean	false	
accessibility.typeaheadfind	default	boolean	false	
accessibility.typeaheadfind.autostart	default	boolean	true	
accessibility.typeaheadfind.casesensitive	default	integer	0	
accessibility.typeaheadfind.enablesound	default	boolean	true	
accessibility.typeaheadfind.flashBar	default	integer	1	
accessibility.typeaheadfind.linksonly	default	boolean	false	
accessibility.typeaheadfind.manual	default	boolean	true	
accessibility.typeaheadfind.matchesCountLimit	default	integer	1000	
accessibility.typeaheadfind.prefillwithselection	default	boolean	true	
accessibility.typeaheadfind.soundURL	default	string	beep	
accessibility.typeaheadfind.startlinksonly	default	boolean	false	
accessibility.typeaheadfind.timeout	default	integer	5000	
accessibility.usetexttospeech	default	string		
accessibility.warn_on_browsewithcaret	default	boolean	true	

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

--javascript.options.wasm.

--javascript.options.shared_memory.

Preference Name	▲ Status	Туре	Value
avascript.options.wasm	default	boolean	true
avascript.options.wasm_baselinejit	default	boolean	true
avascript.options.wasm_ionjit	default	boolean	true
avascript.options.wasm_verbose	default	boolean	false
Preference Name	▲ Status	Туре	Value
javascript.options.shared_memory	modified	boolean	true

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

Weight Network Camera > + > C ∩ ① 192.166.14.103.0083/ndec.html Nation D + All D	••• \$ Q Search	In ♥ ≒ 0
anaba 圖大低電方法点 ● 新手見路 圖 東局限社 ④ 東島商城 filesight Network Camera Secondary Stream ▼ Plugin-Free ▼		🔔 admin 🕞 Logo
Secondary Stream V Plugin-Free V		
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		002 Preset 2
		003 Preset 3
		004 Preset 4
		005 Preset 5
		006 Preset 6
		007 Preset 7
		008 Preset 8
		009 Preset 9
		010 Preset 10
		011 Preset 11
		012 Preset 12 Y

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.

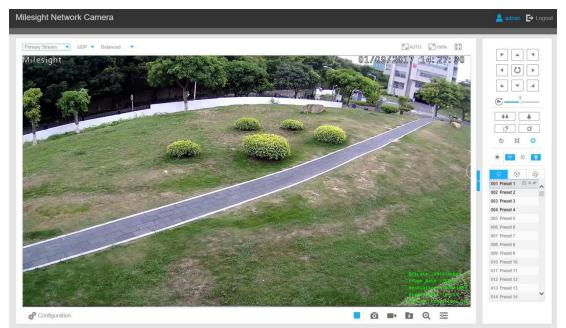




Chapter IV System Operation Guide

4.1 Live Video

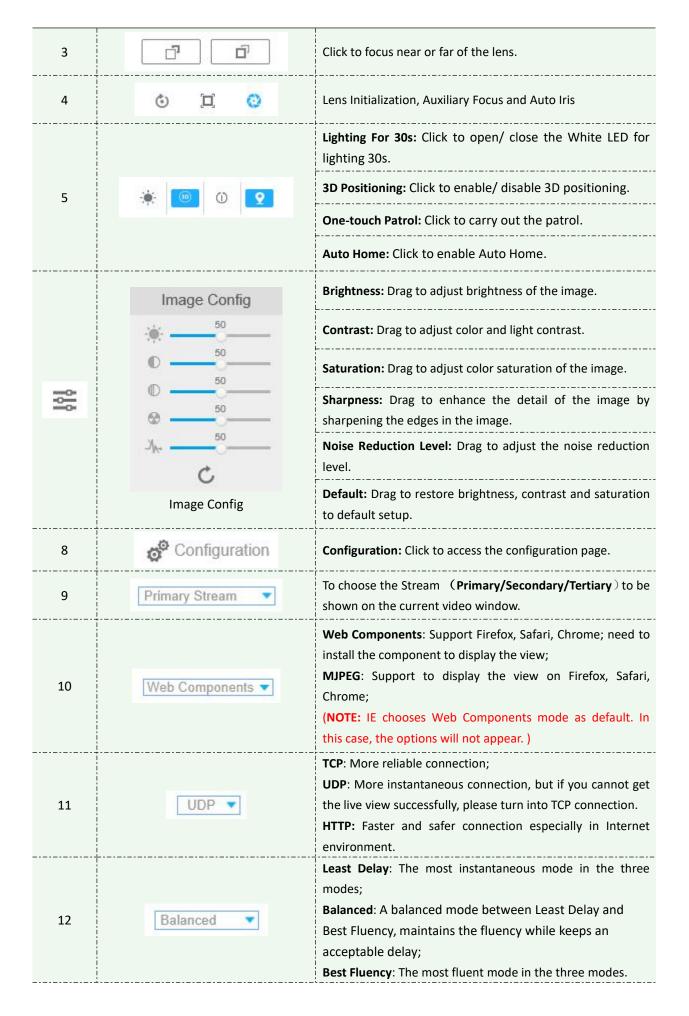
After logging in the network camera web GUI successfully, you are allowed to view live video as follows.



4.1.1 Operations on Live View Page

Table 4-1-1 Description of the buttons

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



13	Kanto Window size	Click to display images at a window size.
14	لاً 100% 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	9 Alarm	When an alarm of Smart Event was triggered, the icon appears
18	_乔 Alarm	When an alarm of Motion Detection was triggered, the icon appears
19	迹 Alarm	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 unterface.

2.Operate the 3D positioning function

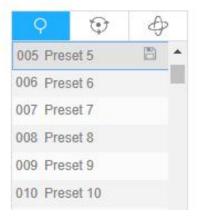
- Left click a position of the Live View, the corresponding position will be moved to the center of the Live View.
- Hold down the left mouse button and drag the mouse to the lower right or upper right on the Live View, you can see a blue rectangle. The corresponding position will be moved to the center 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;

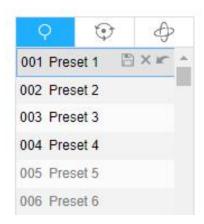
Step4: Click 📉 to delete the chosen preset.

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.

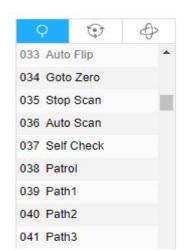


Note:

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	Path4
34	Goto Zero	43	Path5
35	Stop Scan	44	Path6
36	Auto Scan	45	Path7
37	Self Check	46	Path8
38	Patrol	47	Pattern1
39	Path1	48	Pattern2
40	Path2	49	Pattern3
41	Path3	50	Pattern4

Table 4-1-2 S	pecial Presets
---------------	----------------



Set / Call a patrol

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



been defined.

Set a patrol:

Step1: In the PTZ control panel, click

to enter the patrol settings interface;

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

Step3: Click 📩 to add presets to this patrol, as shown in Figure 4-1-5;



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 (PoE) 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 is to call the patrol, as shown below.

C	2	0		d	Ð
Ð	Path 1		۲	\$	×
0	Path 2	i.			
0	Path 3				
0	Path 4				
0	Path 5				
0	Path 6				



Note:

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

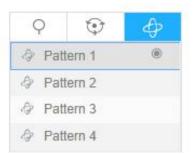
Set / Call a pattern

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 Figure 4-1-7;



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;

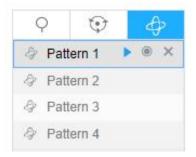
Step5: Click 💌 to save all the pattern settings.

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 Figure 4-1-8.



Note:

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.

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



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

	• •		2015	Aug			44 4	
	Sat	Fri	Thu	Wed	Tue	Mon	Sun	
	1	31	30 31 1	30	29	28	27	26
	8	7	6	5	4	3	2	
	15	14	13	12	11	10	9	
	22	21	20	19	18	17	16	
0045	29	28	27	26	25	24	23	
2015	5	4	3	2	1	31	30	
	ок		Toda				50	
) 🛶	00	00	00	2	1	-08-1	2015	

Note:

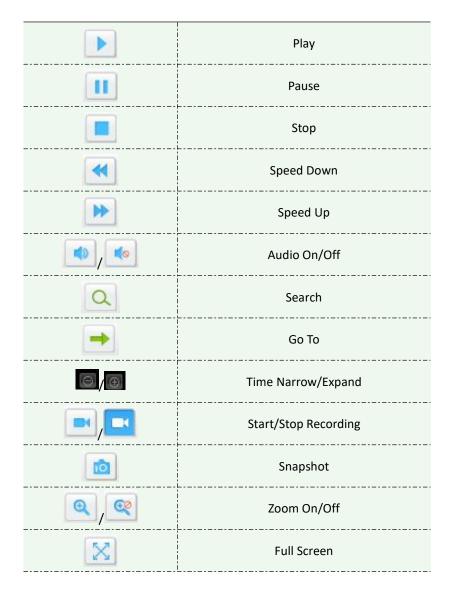
The date with bright red means current date; one with a dark red number and white background means weekend day; one with a dark red number and blue background means that the date is selected now.

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

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

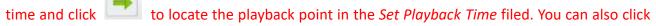
04:00	05:00	06:00	07:00	08:00	09:00 2017-05-2	3 09:43:45 10:00	11:00	12:00	13:00	14:00	15:00
			2017-0	5-23 Q 00	00 00 →						
Table 4-2-1 Description of the buttons											
			Buttor	า		Operation					





Note:

Drag the progress bar with the mouse to locate the exact playback point. You can also input the



/Image: to zoom out/in the progress bar.

2017-05-26 🔍 00 00 🔿

4.3 Local Settings

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

Milesi	ght Network Can	nera			💄 admin 🕞 Logout
(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	
~	Basic Settings		Preview Picture Path:	C://VMS\+-1UMAGE-MANU Browse Open	
¢			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			Save	
	Date & Time				
o°	Advanced Settings				
	System				
0	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	Basic Settings >> Video					
Primary Stream	Secondary Stream	Tertiary Stream				
			Video Codec:	H.265 ¥		
			Frame Size:	1080P(1920*1080) ¥		
			Maximum Frame Rate:	25 v tps		
			Bit Rate:	4096 V kbps		
			Smart Stream:	On 🗸		
			Level:	5		
			Bit Rate Control:	CBR		
			Profile:	Main 🗸		
			I-frame Interval:	50 frame(1-120)		
				Save.		

Secondary Stream Settings

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

.

Tertiary Stream Settings

pasic detungs >> video Primary Stream Secondary Stream Tertlary Stream					
			Enable:	×	
			Video Codec:	H.264 V	
			Frame Size:	640*480	
			Maximum Frame Rate:	25 V fps	
			Bit Rate:	1024 V kbps	
			Smart Stream:	On 🗸	
			Level:	5	
			Bit Rate Control:	CBR	
			Profile:	Main	
			I-frame Interval:	50 frame(1-120)	
				Save	
				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 (PoE) PTZ Bullet and Speed Dome), 4M(2592*1520)(only for 5MP and 4MP Mini (PoE) PTZ Bullet and 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.
Bit Rate Control	CBR: Constant Bitrate. The rate of CBR output is constant. 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/Basic can be selected according to your needs.



I-frame Interval	Set the I-frame interval to $1^{\sim}120$, 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

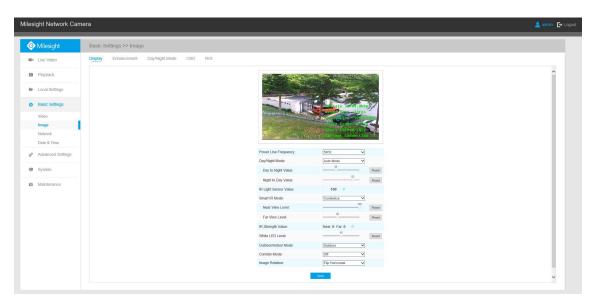


Table 4-4-2 Description of the buttons

Parameters	Function Introduction	
Power Line Frequency	60HZ flicker for NTSC mode and 50HZ flicker for PAL mode	
	There are several parameters such as Exposure Level, Maximum Exposure Time	
	and IR-CUT Interval, etc, associated with this mode.	
	Night Mode: Show in live view based on Night Mode settings	
Day/Night Mode	Day Mode: Show in live view based on Day Mode settings	
Day/Night Mode	Auto Mode: Show in live view based on environment, set the sensitivity for	
	switching Day Mode to Night Mode, or Night Mode to Day Mode	
	Customize: Show in live view based on your own settings' time to start/end Night	
	Mode	

Milesight

Day To Night Value	This is the sensitivity for switching Day Mode to Night Mode . When IR Light Sensor Current Value is lower than this value, it will switch Day Mode to Night Mode.
Night To Day Value	This is the sensitivity for switching Night Mode to Day Mode . When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode.
IR Light Sensor Value	The current value of the IR light sensor
Smart IR Mode	With the combination of the High Beam and Low Beam, The IR LEDs technology has been upgraded to provide better image clarity and quality regardless of the object distance. Also, the Low Beam and High Beam's brightness can be adjusted manually or automatically on the basis of the Zoom ratio. Moreover, with the IR anti-reflection panel, the infrared light transmittance is highly increased. Support to set the strength of the IR to Auto Mode or Customize to achieve the best effect. 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
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs.
Corridor Mode	There are three options available, you can select one to meet your need Off: Keep the image in normal direction Clockwise 90°: Rotate the image by 90° clockwise Anticlockwise 90°: Rotate the image by 90° anticlockwise
Image Rotation	There are four options available, you can select one to meet your need Off: Keep the image in normal direction Rotating 180°: Upside down the image Flip Horizontal: Flip the image horizontally Flip vertical: Flip the image vertically

Enhancement

Milesight	Basic Settings >> Image	2			
Live Video	Display Enhancement	Day/Night Mode OSD ROI			
Playback			date and the second	Active Alt (1990)	^
Local Settings					
Basic Settings				Late statistics	
Video			The second s	State State State State	
Image			and the second second second	states to the strain	
Network			1210-1 1	and Second Connection of	
Date & Time					
Advanced Settings			IR Balance Mode:	≥ The second se	
			White Balance:	Auto White Balance	
System			Digital Anti-fog Mode:	011	
Maintenance			Digital Image Stabilisation:	Out 🔨	
			Exposure Mode:	Schedule Mode	
			Schedule Setting:	Edit	
			O Single Mode 🖲 D	ay/Night Mode O Schedule Mode	
			BLC Region:	Off ✓	
			Wide Dynamic Level:	Auto	
			Anti-flicker Level:	ů	
			High Light Compensation:	General Mode V	
			HLC Level:		
			Day Enhancement Mode:	BLC V	

Table 4-4-3 Description of the buttons

Parameters	Function Introduction
IR Balance Mode	There is an option to turn On/Off the IR LED. IR Balance Mode would avoid the problem of overexposure or darkness, and the IR LED will change according to the actual illumination.
	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
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
Reduce Motion Blur	enable/disable above modes This function is only for H.264 series. Better image for moving objects, it may lead worse quality for still objects
Digital Anti-fog Mode	This function is only for H.265 series. Better image effect in foggy weather, refers to Figure 4-4-9
Digital Image Stabilisation	This function is only for H.265 series. 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;

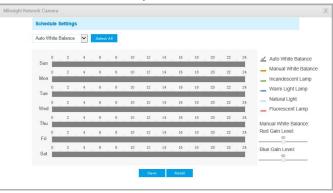
	Manual Mode: The camera will adjust the brightness according to the value
	you set, you can set the exposure time from 1~1/100000s, the higher the value
	is, the brighter the image is;
	Schedule Mode: You can customize the schedule to enable/disable Auto Mode and Manual Mode.
Single Mode	Set single mode 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.
	Off, Customize, and Centre are available (in single mode, only enable when WDR is disable) Off: Calculate the full range of view and offer appropriate light compensation
BLC Region	Customize: This option enables you to customize inclusive or exclusive region manually
	Centre: This option will automatically add an inclusive region in the middle of the window and give the necessary light compensation
	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.
Wide Dynamic Range	Off: Disable WDR function
	On: Enable the WDR, there are Low/High/Auto three levels
	Customize: Customize the schedule to enable/disable the WDR function and
	set the levels with Low/High/Auto
Wide Dynamic Level	Set WDR with Low/High/Auto level
Anti-flicker Level	Reduce flickers that appear on screen in some lighting conditions and there are 10 levels of anti-flicker adjustments
	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.

Customize the schedule to enable/disable BLC/WDR/HLC mode

Note:

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



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

Schedu	ule Se	etting	s												
Auto Mo	ode	~	Select	All											
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24	~	Auto Mode
	0	2	. 4	6	8	10	12	14	16	18	20	22	24	-	Manual Mode 🕕
	0	2	4	6	8	10	12	14	16	18	20	22	24		WDR/HLC has higher priority than exposure
	0	2	4	6	8	10	12	14	16	18	20	22	24		settings during the sar time frame.
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		,	1 1			ie de									
Sat	0	2	. 1	6	8	10	12	14	16	18	20	22	24		

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

Schedule	e Setting	s												
BLC 🗸	Select .	All												
0 Sun	2	4	6	8	10	12	14	16	18	20	22	24	🖌 BLC	
0 Mon	2	4	6	8	10	12	14	16	18	20	22	24	WDR	
Tue	2	. 1	6	8	10	12	14	16	18	20	22	24		
Wed	2	4	6	8	10	12	14	16	18	20	22	24		
Thu	2	4	6	8	10	12	14	16	18	20	22	24		
Fri	2	4	6	8	10	12	14	16	18	20	22	24		
Sat	2	4	6	8	10	12	14	16	18	20	22	24		
						Save		Reset						

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





6) HLC Image.



Day/Night Mode

Milesight	Basic Settings >>	Image									
Live Video	Display Enhancen	nent Day/Night Mode	OSD ROI								
Playback					and the state of the second	76-90 - 2 - 15 - 1	4.52				
Local Settings						24					
Basic Settings							92				
Video				Bieinteile		and a second as					
Image	1				and the second se	Wolds - Bailor - Alland	<				
Network	1					Shart Stream (Def					
Date & Time					1 100 1940 1940						
Advanced Settings					Day/Night I						
		Day/Night Mode Night Mode:	Exposure Level	Minimum Shutter	Maximum Shutter	Limit Gain Level	IR-CUT Latency	IR-CUT	IR LED On V	Color Mode B/W V	
System		Day Mode:	5 ¥	1/25 ¥	1/100000 V	100	58 ¥	On V	All LED Off	Color V	
		bay moto.		0.00	Schedule		[00 ×]	0.1	[reccount of		
			Exposure Level	Minimum Shutter	Maximum Shutter	Limit Gain Level	IR-CUT Latency	IR-CUT	LED	Color Mode	
		Timer				100	50 🗸	Off 🗸	All LED Off 🗸	B/W 🗸	
		Timer		1/25 🗸	1/100000 🗸					B/W 🗸	
			5	1/25 ¥ 1/25 ¥	1/100000 ~	100	5e 🗸	Off 🗸	All LED Off 🗸 🗸		
		00 🗸 : 00 🗸 - 24 🗸 : 00 🗸	5 ¥					 ₩ <	AILED Off V	B/W ¥	
		$\begin{array}{c} 00 \checkmark : (00 \checkmark - 24 \checkmark : 00 \lor \\ 00 \checkmark : (00 \lor - 24 \lor : 00 \lor \\ \end{array}$	5 > 5 > 5 >	1/25 🗸	1/100000 🗸	100	58 🗸				
Maintenance		$\begin{array}{c} 00 \forall : 00 \forall - 24 \forall : 00 \forall \\ 00 \forall : 00 \forall - 24 \forall : 00 \forall \\ 00 \forall : 00 \forall - 24 \forall : 00 \forall \\ 00 \forall : 00 \forall - 24 \forall : 00 \forall \\ 00 \forall : 00 \forall - 24 \forall : 00 \forall \\ \end{array}$	5 V 5 V 5 V	1/25 ¥	1/100000 V	100	50 V	Oli V	AII LED OM	B/W V	

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}
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.
LED	Choose to turn on or turn off under this mode. LED off: Turn off all the LEDs on the device; IR LED on: Turn on the IR LED; White LED on: Turn on the White LED (Only for Mini (PoE) PTZ Bullet).
Color Mode	Select B/W or Color mode under Day/Night mode.
Schedule Mode	By this you can customize your special demands for different time, then the Day mode and Night mode will switch automatically according to your settings.

OSD(On Screen Display)

Ailesight	Basic Settings >> I	mage					
ive Video	Display Enhancem	ent Day/Night Mode	OSD ROI				
Nayback				Report Frankling	Carlos Antonio Marine ad		
ocal Settings					E Martin		
lasic Settings				- Ante Hill			
ndeo				the second se	te :4448.8kbg/?		
nage				and the second se			
letwork				A STATE	Spart Stream core		
ate & Time				Bathleter	IX AN EXCLUSIVE COMPETITION OF		
dvanced Settings				Video Stream:	Primary Stream 🗸		
				Font Size:	Medium		
lystem				Font Color:	9		
faintenance				Show Video Title:			
naimenance				Video Title:	Main		
				Text Position:	Top-Left		
				Show Timestamp:	×		
				Date Position: Date Format:	Top-Right V		
				Date Format: Copy to Other Streams:	DDMM/YYYY ✓ 1 □ 2 □ 3		
				Copy to Other Streams:	M1 L2 L3		
					Save		

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

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

Milesight Network	t Camera			💄 admin 🕞 Logout
Milesight	Basic Settings >> Image			
Live Video	Display Enhancement Day/Night Mode OSD ROI			
Playback		rikmi	and the second second second second	
Local Settings				
Basic Settings		and the second	CON CONTRACTOR	
Video		The second s	Service Services	
Image				
Network		(P. 1)	NYT 18 201 PREPART Bondection at	
Date & Time				
e ^p Advanced Settin	igs		Clear All	
🛒 System		Enable: Video Stream:	Primary Stream	
Maintenance			Same	

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

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

Note:



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

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.

M healy it a lean a. In a Differ factor DDN	Milesight
A COLUMN	Bitrate :6
	Charl Stream 184
Enable Audio: Audio Mode:	Both Mic & Speaker
Audio Input Denoise:	
Encoding:	AAC LC 🗸
Sample Rate:	8KHz 🗸
nput Gain:	
Alarm Level:	
Audio Output	
Auto Gain Control:	Z
	80

Table 4-4-7 Description of the buttons

Parameters	Function Introduction
Enable Audio	Check on the checkbox to enable audio feature.

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

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

	torage Type:	Flash	~
Audio File (Jpload		
Audio File N	ame:		
Audio File:			Browse
ID	Audio File	Upload Name	Delete

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

Note:

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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	
Use lixed 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:	

Parameters	Function Introduction	
Get IPv4 Address Automatically	Get an IP address from the DHCP server automatically.	
Use fixed IP address	 IPv4 Address: It is used to identify a network camera on the network; IPv4 Subnet Mask: It is used for identifying the subnet where the network camera is located; IPv4 Default Gateway: It is the default router 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. 	

Table 4-4-8 Description of the buttons

Note:

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

HTTP

80
443
C=US, H/IP=maylong Reset
Awarded to: D=US, H/IP=maylong D=US, H/IP=maylong Period of Validity: rab 16 02:29:45 2016 ~ Nov 11 02:29:45 2018
Create a Private Certificate
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 .

HTTP URL are as below:

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

RTSP

RTSP Port:	554 0
Playback Port	555 0
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:

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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 "⁽¹⁾ "on the right side of RTSP Port.
- 2) Get the playback tip by clicking "^① "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.

Port Mapping			
Enable Port Mappir	ng:]	
Name:		JPnP	
Туре:	I	Auto	~
	External Port	Internal Port	Status
Protocol Name			
	21202	80	Invalid
Protocol Name HTTP RTSP	21202 23202	80 554	Invalid Invalid

Table 4-4-11 Description of the buttons

Parameters	Function Introduction	
Enable	Check the checkbox to enable the UPnP function	
Enable Port Mapping	Check the checkbox to enable the Port Mapping	
Name	The name of the device detected online can be edited	

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

DDNS

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

rnal RTSP Port: 554	esight.com	~
		~
rnal RTSP Port: 554		
mal Playback Port: 555		
NS 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

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 4-4-13 Description of the buttons

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

FTP

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

Server Address:	192.168.8.72	
Server Port:	21	
User Name:	admin	
Password:	*****	
FTP Storage Settings		
Storage Path:	Child Directory	~
Parent Directory:	IP Address	~
Child Directory:	Device Name	Ŷ
Alarm Action File Name:	Customize	v
Video File Name:	YYYY-MM-DD	~
Image File Name:	YYYY-MM-DD	~
Timing Snapshot File Name:	Default(YYYY-MM-DD)	~

Table 4-4-14 Description of the buttons

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

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

Note:

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

VLAN

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

VLAN Enable:	¥
VLAN ID(1~4094):	1
VLAN IP:	
VLAN Netmask:	4 4
VLAN Gateway:	

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:	V
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)
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	

4.4.5 Date&Time

Date:	05/02/2018					
Time:	11:24:24					
Set the System Time						
Time Zone:	8 China (Beijing, Taipei)					
Daylight Saving Time:	Disabled					
NTP Sync:	☑ Interval: 1 day					
O Synchronize with computer t	ime					
Date:	05/02/2018					
Time:	11:24:22					
O NTP server						
O Manual						

Current System Time

Current date&time of the system

Set the System Time

Table 4-4-16 Description of the buttons

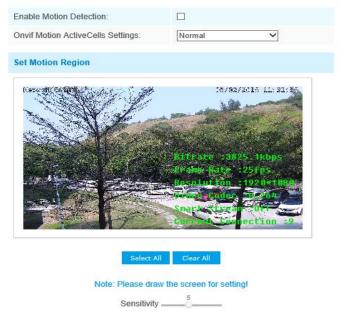
Parameters	Function Introduction			
Time Zone	Choose a time zone for your location.			
Daylight Saving time	nable the daylight saving time.			
NTP Sync	Regularly update your time according to the interval time.			
Synchronize with computer time	Synchronize the time with your computer.			
NTP server	Input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

4.5 Advanced Settings

4.5.1 Alarm

Motion Detection

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



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:	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:	
White LED:	
PTZ Motion:	

Parameters	Function Introduction				
Save Into Storage	Save alarm recording files into SD Card or NAS				
Upload Via FTP	Ipload the recording files via FTP.				
Upload Via SMTP	Jpload the files via SMTP.				
External Output	f 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.				
White LED	When the alarm triggered, White LED will turn on to warning the detected objects (Only for Mini (PoE) 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 (only for External	When the motion alarm triggered, the specified preset/patrol/pattern can be 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;

TP Notification:	
HTTP Notification URL:	192.168.8.75:8601/Interface /Cameras/MotionDetection /Notify?Camera=annie
HTTP User Name:	admin
HTTP Password:	

HTTP User Name: admin (the user name of your camera) HTTP Password: ms1234 (the password of your camera) HTTP Notification URL:

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

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

8601 is the port for Motion signal in Digifort.

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

mera registration (annie)								
Close al		General						
🛛 Camera	-	General camera data						
General								
Lens		Camera name	Camera description					
Motion detection			sdf					
Audio		Manufacturer						
Image filters		ONVEF Open Net	twork Video Interf	ace Forum				
Streaming		Camera model		Firmware			Channel	
Media profiles		ONVIF Conformant Device	•	1.02 or greater		•	1	۲
Recording		Camera address		Port (80)	 User		Password	
Live view		192.168.8.173		80	admin			2
* Recording	- 1	Camera shortcut			Connection timeout	(Milliseconds)	-
Settings					30000			۲
Archiving		Recording directory E:\2015\dsf\						1 81:
								P6
Users		Activate camera						
⊗ PTZ								
Settings								
Presets								
PTZ Patrol								
Auxiliary								
Joystick								
Menu control								
⊗ I/O	-						ОК	Cancel

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;

Motion detection			
Motion detecti	ion settings		
O Use software motio	on detection		
	on by external notifica	No. of Concession, Name	

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

Servers
mera)

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

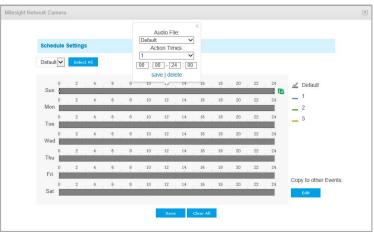
Alarm Setting	
Record Video Sections:	5 seconds 🗸
Pre-record:	0 second 🗸
Snapshot:	3
Snapshot Interval:	1 second V
External Output Action Time:	30 seconds
Audio Action Settings:	Edit
Play Audio Interval:	Auto
White LED Flash Mode:	Twinkle
White LED Flash Time:	Reset
White LED Effective Mode:	Always
Proportional Zoom Times:	2X 🗸
PTZ Motion Recovery Time:	3 seconds (Recovery time is not less than flash 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).
Pre-record	Reserve the record time before alarm, 0~10 sec.
Snapshot	The number of snapshot, from 1 to 5.
Snapshot Interval	It cannot be edited unless you choose more than 1 to Snapshot.
External Output Action Time	Length of time an alarm lasts, this cannot be edited unless when you enable the External Output on the Alarm Action firstly.
Audio Action Settings	Set the audio schedule to trigger different audio files and action times in different time, which is corresponded to alarm action.
Play Audio Interval	Auto/ 10 seconds/ 30 seconds/ 1 minute/ 5 minutes/ 10 minutes are available.
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:

- 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.



	File Format: Record
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
Pre-record:	0 second
Snapshot:	3
Snapshot Interval:	1 second V
External Output Action Time:	30 seconds
Audio Action Settings:	Edit
Play Audio Interval:	Auto
White LED Flash Mode:	Twinkle
White LED Flash Time:	
White LED Effective Mode:	Always 🔽
Proportional Zoom Times:	2X 🗸
PTZ Motion Recovery Time:	3 seconds (Recovery time is not less than flash time.)

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

External Input





Alarm Action	
Save Into Storage:	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:	
White LED:	
PTZ Motion:	

Alarm Setting	
Record Video Sections:	5 seconds 🗸
Pre-record:	0 second 🗸
Snapshot:	3
Snapshot Interval:	1 second V
External Output Action Time:	30 seconds
Audio Action Settings:	Edit
Play Audio Interval:	Auto
White LED Flash Mode:	Twinkle
White LED Flash Time:	
White LED Effective Mode:	Always 🗸
Proportional Zoom Times:	2X 🗸
PTZ Motion Recovery Time:	3 seconds

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

Other Alarm

Alarm Type	Network Lost
Enable Network Lost Alarm:	
Alarm Action	
Save Into SD Card:	File Format: AVI V (Please insert SD card.)
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
Pre-record:	0 second 🗸
Snapshot	1 🗸
Snapshot Interval:	1 second V
External Output Action Time:	30 seconds 🗸 🗸
Audio Action Settings:	Edit
Play Audio Interval:	Auto
White LED Flash Mode:	Twinkle
White LED Flash Time:	Reset
White LED Effective Mode:	Always 🗸

Milesight

Parameters	Function Introduction
Alarm Type	Network Lost, Tampering and IP Address Conflicted are available Check the checkbox to enable the alarm type you selected
Alarm Action	 Save Into SD Card: Save alarm recording files into SD Card External Output: If the camera equips with External Output, you can enable the action after configuring the trigger duration Play Audio: If the camera equips with Speaker, you can enable the action after configuring the audio speaker Play Buzzer: If the camera equips with Buzzer, you can check the checkbox to enable the function White LED: The White LED could flash as a warning signal when the alarm triggered if the camera equipped with it(only for Mini (PoE) PTZ Bullet).
Alarm Setting	 Record Video Sections: Six different periods are available(5, 10, 15, 20, 25, 30 sec) Pre-record: Reserve the record time before alarm, 0~10 sec Snapshot: The number of snapshot, 1~5 Snapshot Interval: This cannot be edited unless you choose more than 1 to Snapshot 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 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.

Table 4-5-4 Description of the buttons

External Output

Normal Status:	○ Open Grounded
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:



ParametersFunction IntroductionFormatFormat SD card, the files in SD card will be removedMount/UnMountMount/Dismount SD cardDeleteEnable 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 4-5-7	Description	of the buttons
	2 200	0

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

Enable Recycle Storage:				
	Sa	ave		
Schedule Settings	-			
un -				
on -				
ue -				
ed -				
hu -				
Fri				
Sat				



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

Note:

SD Card or NAS are available.

Snapshot Settings

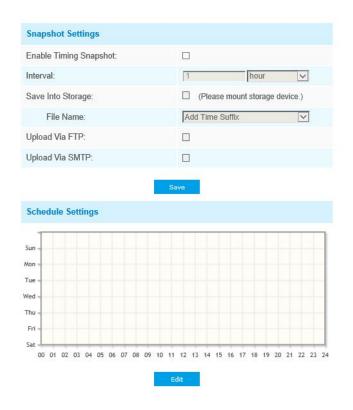


Table 4-5-8 Description	on of the buttons
-------------------------	-------------------

Parameters	Function Introduction
Snapshot Settings	 Enable Time 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 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	
	File Name	Start Time	End Time	Туре	Size	File Search
		Please mount stora	ge device first!			Main Type:
						Record
						Sub Type:
						All
						Start Time:
						2019-03-12 00:00:00
						End Time:
						2019-03-12 23:59:59
						Search Rese
Showing	0 to 0 of 0 entries	First Previous Next La	ot			
onowing	0 10 0 01 0 0111103	THE TREVIOUS NEXT La	01		Go	

4.5.3 Security

User

low Anonymous	/iewing:		
ecurity Question	Û		
Security Question:		Edit	1
Account Manager	nent		
Add Edit	Delete		
iD	User Name		Privilege
1	admin		Administrator
2	milesight		Operator
Admin Password:			
User Level:		Operator	~
User Name:			
		8	
Password:			

Table 4-5-9 Description of the buttons

Parameters	Function Introduction
	i

Manage Privilege	Allow anonymous viewing: Check the checkbox to enable visit from whom doesn't have account of the device		
	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.		
	Milesight Network Camera		
	Security Question Settings		
	Admin Password:		
	Security Question1: What's your father's name?		
	Answer1:		
	Security Question2: What's your father's name?		
	Answer2:		
	Security Question3: What's your father's name?		
	Answer3.		
	Save		
Security Question			
	There are twelve default questions below, you can also customize the security		
	questions.		
	What's your father's name?		
	What's your father's name? What's your favorite sport?		
	What's your mother's name? What's your mobile number? What's your first pet's name? What's your favorite book?		
	What's your favorite game?		
	What's your favorite food? What's your lucky number?		
	What's your favorite color? What's your best friend's name?		
	Where did you go on your first trip? Customized Question		
	Customized Question		
	Click "Add" button, it will display Account Management page. You can add an		
	account to the camera by entering the following information. The added account		
	will be displayed in the account list. You can edit and delete the account in the		
	account list (except the admin account).		
Account Management	Admin Password: You can only add an account 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		
Administrator	An administrator can manage all configuration pages of the device, including change user password, add or delete users (the default user "admin" cannot be		
Administrator	deleted)		
Operator	An operator can manage all configuration pages except the User page		

Viewer	A viewer can`t change any settings

Note:

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

2) You can only add 20 users.

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

Access List

General Settings	
Maximum Number of Concurrent Streaming:	9 🗸
IP Access List	
Rule:	Single V
IP Address:	
	Add
Enable Access List Filtering:	

Table 4-5-9 Description of the buttons

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



Security Service

Enable SSH:	
SSH Port:	6022

Table 4-5-10 Description of the buttons

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

4.5.4 SIP

The Session Initiation Protocol(SIP) is a signaling communications protocol, widely used for controlling multimedia communication sessions such as voice and video calls over Internet Protocol(IP) networks. This page allows user to configure SIP related parameters. Milesight cameras can be configured as SIP endpoint to call out when alarm triggered; or allow permitted number to call in to check the video if the video IP phone is used. To use this function, the settings in SIP page must be configured properly. There are two ways to get video through SIP, one is to dial the IP address directly, the other is account registration mode. the details are as follows: **Method 1**: IP Direct mode

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

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

Method2: Account registration mode

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

SIP Settings

	Unregistered
Enable:	
Register Mode:	Enable V
User ID:	500
User Name:	sipclient
Password:	*******
Server Address:	192.168.5.101
Server Port:	5060
Connection Protocol:	UDP
/ideo Stream:	Tertiary Stream 🗸
Max Call Duration:	1800
a contra contra contra toria della contra della c	(0 means no limitation.)

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

The max call duration when use SIP

Table 4-5-11 Description of the buttons

Note:

1) SIP supports Directly IP call;

Max Call Duration

2) SIP only supports second stream with H.265/H.264 Video Compression.

Alarm Phone List

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

Table 4-5-12 Description of the buttons

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

White List

Phone Type:	Phone Number
Phone Number:	
	Add
Enable White List Number Filter:	
	Save

Table 4-5-13	Description	of the butt	ons
10010 1 0 10	Description	of the batt	.0115

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

4.5.5 Smart Event

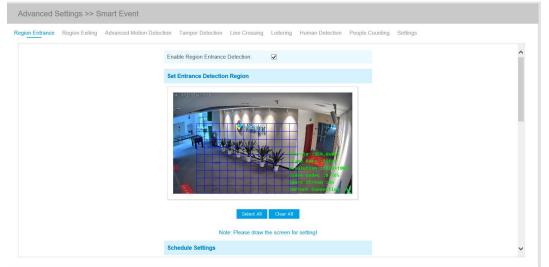
Smart Event uses Milesight Video Content Analysis technology. This technical capability is used in a wide range of domains including entertainment, health-care, retail, automotive, transport, home automation, safety and security. Milesight VCA provides advanced, accurate smart video analysis



for Milesight network cameras. It enhances the performance of network cameras through 8 detection modes which are divided into basic function and advanced function, enabling the comprehensive surveillance function and quicker response of cameras to different monitoring scenes. (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 entrance detection region; Step2: Set detection schedule;

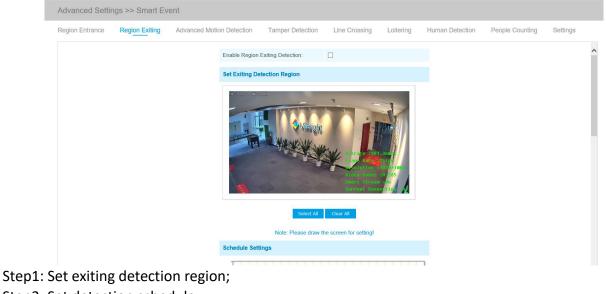
Step2. Set detection serie

Step3: Set alarm action;

Step4: Set alarm settings.

Region Exiting

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



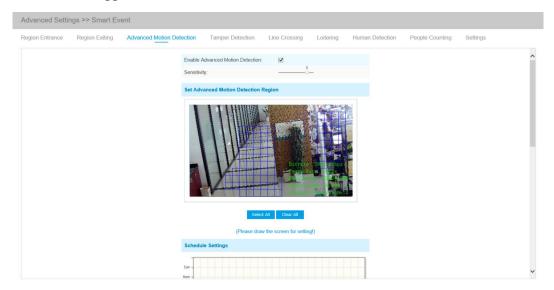
Step1: Set exiting detection region Step2: Set detection schedule; Step3: Set alarm action;



Step4: Set alarm settings.

Advanced Motion Detection

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



Step1: Set detecting sensitivity;

Step2: Set advanced motion detection region;

Step3: Set detection schedule;

Step4: Set alarm action;

Step5: Set alarm settings.

Note:

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

Tamper Detection

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

Advanced Settin	ngs >> Smart Ev	ent								
Region Entrance	Region Exiting	Advanced Motion Det	ection	Tamper Detection	Line Crossing	Loitering	Human Detection	People Counting	Settings	
			Sensitivity: Schedule 3 Sun 7 Non 7 Tue 7 Wed 7 Thu 7 Fri 7 Sat 7	nper Detection:	0 11 12 13 14 15 16 Edit	- 17 18 19 20 21	22. 23. 24			^
			Alarm Acti	ion						
			Save Into S	SD Card:	File Format (Please insert S					
			Save Into N	IAS:	File Format: (Please mount I					
			Upload Via	FTP:	File Format	AVI 🗸				
			Unload Via	SMTP:	Eile Format	JPG ¥				~

Step1: Set detecting sensitivity;

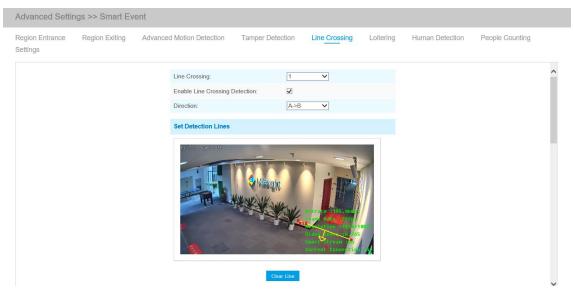
Step2: Set detection schedule;

Step3: Set alarm action;

Step4: Set alarm settings.

Line Crossing

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



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



Step2: Enable Line Crossing Detection and define its direction;



Line Crossing:	4 🗸
Enable Line Crossing Detection:	
Direction:	A->B B->A A<>B
Set Detection Lines	Amb

Step3: Draw detection lines;

Step4: Set detection schedule;

Step5: Set alarm action;

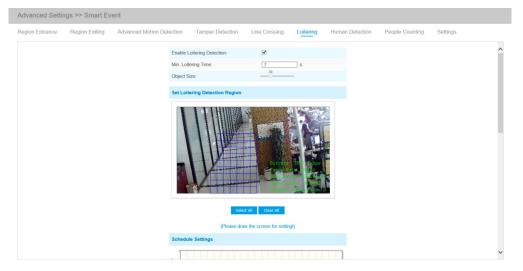
Step6: Set alarm settings.

Note:

Milesight allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm. " $A \rightarrow B$ " 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 object size;
- Step3: Set loitering detection region;
- Step4: Set detection schedule;
- Step5: Set alarm action;

Step6: Set alarm settings.

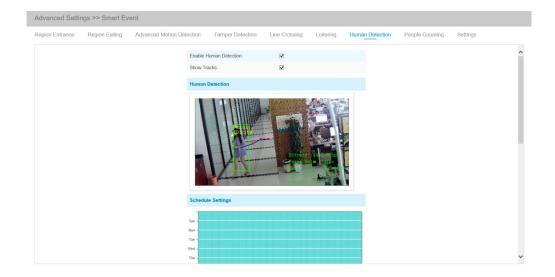
Note:

After setting minimum loitering time from 3s to 300s, any objects loitering in the selected area over the minimum loitering time will trigger the alarm. Also Milesight loitering allows to set "Object Size". Only the object bigger than the set size will trigger the alarm.



Human Detection

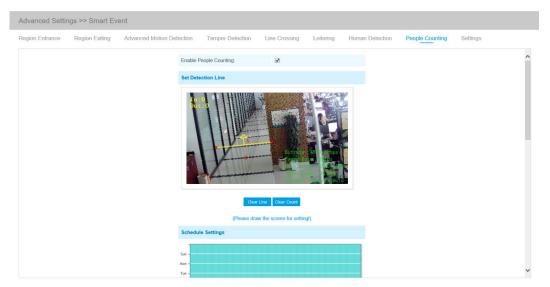
Human detection is used for figuring out whether an object is a human or not. Once human detection is enabled, when there is an object appearing in the detecting area, an ID will show on the frame. If the object is a person, it will mark as "person". When the Show Tracks is enabled, the tracks of the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



People Counting

People Counting

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



Step1: Set detection line; Step2: Set detection schedule; Step3: Set counting OSD;

Counting OSD	
Show Video Title:	V
Font Size:	Small
Font Color:	3
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:	V
Day:	Everyday V
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.

Alarm Trigger		
Enable Alarm		
	🗆 In:	9999
Thresholds:	🗆 Out:	9999
	Capacity:	9999
	Sum:	9999

Step7: Set alarm action; Step8: Set alarm settings.

Note:

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

Setting

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.

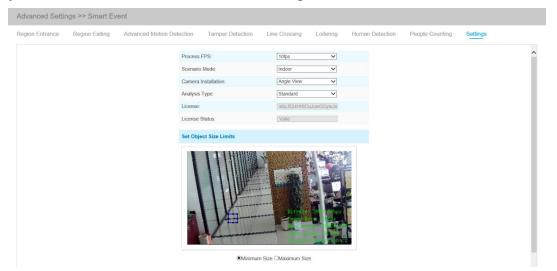


Table 4-5-14 Description of the buttons

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

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

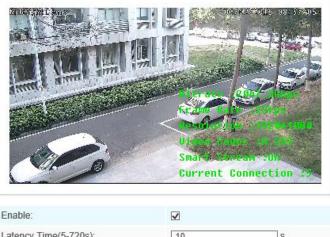
Zoom Status:	5 seconds	~
Pan & Tilt Status:	5 seconds	~
Preset Status:	5 seconds	~
Preset		
Preset Freezing:		
Speed		
Preset Speed:	1	~
Patrol		
Patrol Recovering:		
Patrol Recovery Time(5-720s):	10	S
Focus		
Focus Mode:	Semi-Auto	~
Power Off Memory		
Set Resume Time:	Disable	~

Table 4-5-15 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.			
Patrol	Patrol Recovering: Click to enable Patrol Recovering.			
(Mini PTZ Bullet)	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



Latency Time(5-720s):	10	S	
Auto Home Mode:	Preset	~	
Auto Home Mode Number:	Current Location	~	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.

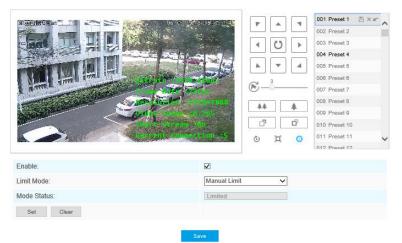
Parameters	Function Introduction
Latency Time	Set a latency time to trigger Auto Home mode, 5-720s.
Auto Home Mode	Preset: A preset point will take effect when triggering the Auto Home.
Auto Home Mode Number	Select a predefined preset in the list, press "Call" to check the location. Also support to select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

Table 4-5-16 Description of the buttons



PTZ Limit

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



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.

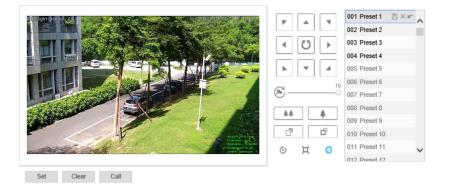


Table 4-5-17 Description of the buttons

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 (PoE) 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 eight mask areas at most.

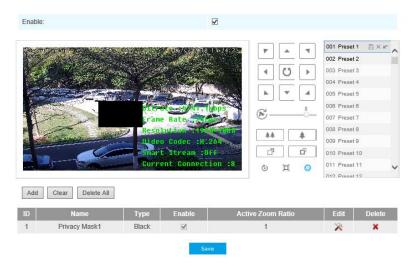


Table 4-5-18	Description of the buttons
10.010 1.0 20	

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 Patio	Set the value of Active Zoom Ratio according to your need, and then the mask will
Active Zoom Ratio	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:

se	~	Sel	ect All												
Sun	0	2	4	6	8	10	12		14	16	18	20	22	24	~
Mon	0	2	4	6	8	10	13		14	16	18	20	22	24	
Tue	0	2	4	6	8	10	13		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	13		14	16	18	20	22	24	
Fri	0	2	4	6	8	10	13		14	16	18	20	22	24	
Sat	0	2	4	6	8	10	13		14	16	18	20	22	24	

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.

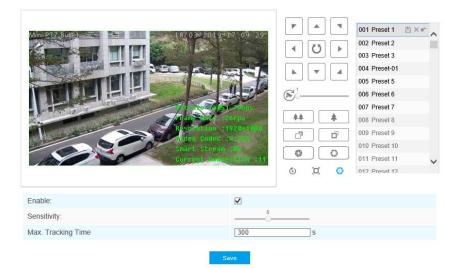
Note:

- 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.
- button to select or close all schedule of different kinds of tasks. You can click 3)

Auto Tracking

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





Step1: Check the checkbox to enable Auto Tracking;

Step2: Set detecting sensitivity;

Step3: Set Max. Tracking Time which must be between 5~300s. The camera will stop tracking when the tracking time is used up.

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

Config Clear

Clear All:	
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:	

Figure 4-5-42 Config Clear

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 ○Pe	elco-P
Baudrate:	9600	\sim
Data Bit:	8	~
Stop Bit:	1	~
Parity:	None	~
Flow Control:	None	~
PTZ Address:	1	
	Save	

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:

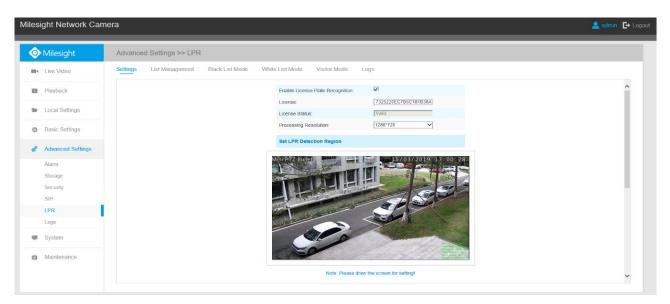
This function is only for Speed Dome.

4.5.7 LPR(Optional)

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

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

Settings



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



start detecting the license plate.

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

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

Parameters		Function Introduction	I				
License	Generated by camera's information						
License Status	Show present lice	ense status, including Valid, Invalid .					
Processing Resolution	Resolution of the stream for LPR analysis, including 1920*1280, 1280*720, 640*360, 320*176.						
Enable Day/Night Detection Mode (Only for Korean version)	With this option enabled, the camera will enable different detection modes according to Day/Night mode.						
Add (Only for Korean version)	the area,only fou You can edit the 1 2 3 4	to select the area interested, then in recognition areas can be added. name of the area or delete the area Name ROI_1 ROI_2 ROI_3 ROI_4 se plates larger than 150 pixels can l	in the list b Edit X X X X X X	Delete X X X X			
Clear (Only for Korean version)	Click the "Clear"	button to clear the area being draw	/n.				
Delete All (Only for Korean version)	Click the "Delete	All" button to delete all the added	areas.				
Enable LPR Message Post	i	box to enable LPR Message Post. I devices or softwares that are comp	•				
Post Type	Information can	be pushed by RTSP or TCP .					

Table 4-5-19Description of the buttons

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.

esiç	ght Network Can	nera									💄 admin 🔳
٥	Milesight	Advance	ed Settings >> LPF								
	Live Video	Settings	List Management	Black List Mode	White List Mode	e Visitor Mode	Logs				
	Playback					List Management					^
ler .	Local Settings					License Plate:	Black V				
ø	Basic Settings					Batch Upload:	Upload ⁽⁾	Browse			
ď	Advanced Settings						Please upload csv format file(utf-8).				
	Alarm					Click	k here to download the template.				
	Storage			Show 10 🗸 er	ntries						
	Security				License Plate		Plate Type		List Search		
	SIP				DD12312		Black		Plate Type:		
	LPR				34AB1234		White		All	~	
	Logs				34 AB 1234		Black		License Plate:		
	System				2008ZGZ		Black				
	System				2008 ZGZ		White				
ô	Maintenance				1K82		Black		Search		
					1234590		White		Export List Delet	te List	
				Showing 1	to 7 of 7 entries	First Previous 1 Nex	t Last	Go			~

Table 4-5-20 Description of the buttons

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

Black List Mode

- J	Network Camera						🐣 admin : 🕞 I
Mile:	sight	Advanced	I Settings >> LPR				
Live V	Video	Settings	List Management	Black List Mode	White List Mode Vis	tor Mode Logs	
 Playb 	ack				Enable Black List Mode:		^
Local	Settings				Schedule Settings		
🏟 Basic	Settings				Sun =		
Advar	nced Settings				Tue -		
Alarm	0				Thu -		
Storag	ge				Fri -		
Secur	ity				Sat 00 01 02 03 04 05 06 07 08	09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	
SIP						Edit	
LPR							
Logs	1				Alarm Action		
Syste	m				Save Into NAS:	File Format: Record (Please mount storage device.)	
Maint	lenance				Upload Via FTP:	File Format: Record	
ivicili le	ionando				Upload Via SMTP:	File Format: Snapsho	
					External Output:	(Please configure the External Output Action Time)	

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 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 marked as "black" is detected, the camera will respond accordingly



to your settings.

White List Mode

	Milesight	Advance	d Settings >> LPR			
	Live Video	Settings	List Management	Black List Mode	White List Mode	Visitor Mode Logs
	Playback				Enable White List Mode	r 🗆
Ser.	Local Settings				Schedule Settings	
ø	Basic Settings				Sun -	
ø	Advanced Settings				Tue -	
	Alarm				Thu -	
	Storage				Fri -	
	Security				Sat 00 01 02 03 04 05 0	06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
	SIP					Edit
	LPR					
	Logs				Alarm Action	
Ŧ	System				Save Into NAS:	(Please mount storage device.)
Ô	Maintenance				Upload Via FTP:	File Format: Record
5	wantenance				Upload Via SMTP:	File Format: Snapsho
					External Output:	(Please configure the External Output Action Time)

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.

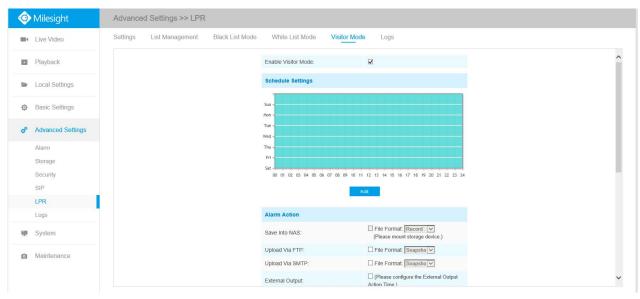
Alarm Setting	
Record Video Sections:	5 seconds 🗸
Pre-record:	0 second 🗸
Snapshot Type:	License Plate 🗸
Snapshot:	3 🗸
Snapshot Interval:	1 second V
xternal Output Action Time:	30 seconds
udio Action Settings:	Edit
Play Audio Interval:	Auto

After that, when a license plate marked as "White" is detected, the camera will respond



accordingly to your settings.

Visitor Mode



Step1: Check the checkbox to enable Visitor Mode.

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

Alarm Action	
Save Into NAS:	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.

Logs

Milesight	Advanced Settings >> LPR						
Live Video	Settings List Management B	Ilack List Mode White List Mode Visitor Mode	a Logs				
Playback			15/01/2010 12:00:20	Time	Snapshot Licens	e Plate	
Local Settings			15/03/2019 17:00:28	2019-03-14 14:48:57	AB 1234 34AB1	234	
Basic Settings		TRUE		2019-03-14	AR 1234 34AB1	234	
Advanced Settings				2019-03-14		244	
Alarm				14:48:55	AD ILUH	234	
Storage				2019-03-14	up 100/		
Security SIP				14:48:54	АВ 1234 знавт	234 🗸	
		Show 30 V entries	Hind and Annual	14:48:54	АВ (Д)4 34АВ1	234 🗸	
SIP		Show 30 minies	License Plate	14:48:54	Log Search	234 🗸	
IP PR ogs	i.	Time 2019-03-14 17:23:34	бнзк	Plate Type Visitor		234 🗸	
SIP LPR Logs		Time 2019-03-14 17:23:34 2019-03-14 14:48:57	5H3K 34AB1234	Plate Type Visitor White	Log Search	234 ¥	
SIP LPR Logs System		Time 2019-05-14 17:23:34 2019-03-14 14:48:87 2019-03-14 14:48:58	5H3K 34AB1234 34AB1234	Plate Type Visitor White White	Log Search Plate Type:		
SIP LPR Logs System		Time 2019-03-14 17 23-34 2019-03-14 14 48 07 2019-03-14 14 48 05 2019-03-14 14 48 55	5H3K 34A81234 34A81234 34A81234 34A81234	Plate Type Visitor White White	Log Search Plate Type: All License Plate:		
SIP		Time 2019-03-14 17:23:34 2019-03-14 14:48.87 2019-03-14 14:48.87 2019-03-14 14:48.85 2019-03-14 14:48.85	5H3K 34AB1234 34AB1234 34AB1234 34AB1234	Plate Type Visitor White White White	Log Search Plate Type: [All License Plate:] Start Time:		
SIP LPR Logs System		Time 2010-02.5-112.234 2010-02.5-122.24 2010-02.5-121.44.855 2010-02.5-121.44.855 2010-02.5-121.44.854 2010-02.5-121.44.855	5H3K 34AB1234 34AB1234 34AB1234 34AB1234 34AB1234 34AB1234	Plate Type Visitor White White White White	Log Search Plate Type: All License Plate:		
SIP LPR Logs System		Time 2016-02-14 17:23.34 2016-02-14 14:48.07 2016-02-14 14:48.07 2016-02-14 14:48.05 2016-02-14 14:48.05 2016-02-14 14:48.05	5H3K 34AB1234 34AB1234 34AB1234 34AB1234 34AB1234 34AB1234 34AB1234	Plate Type Visitor White White White White White	Log Search Plate Type: [All License Plate:] Start Time:		
SIP LPR Logs System		Time 2014-02-14 17.23.34 2014-02-14 14.48.67 2014-02-14 14.48.67 2014-02-14 14.48.65 2014-02-14 14.48.55 2014-02-14 14.48.55 2014-02-14 14.48.55 2014-02-14 14.48.51 2014-02-14 14.48.52 2014-02-14 14.48.51	8H3K 34AB1234 34AB1234 34AB1234 34AB1234 34AB1234 34AB1234 34AB1234	Plate Type Vision White White White White White White White	Log Search Plate Type: Aa License Plate: Start Time: 2919-02-14 00:00:00		
IP PR ogs System		Time 2014-02.14 17 23.34 2014-02.14 14 24.307 2014-02.14 14 44.807 2014-02.14 14 44.80 2014-02.14 14 44.80 2014-02.14 14 44.80 2014-02.14 14 44.80 2014-02.14 14 44.80	843K 34A81234 34A81234 34A81234 34A81234 34A81234 34A81234 34A81234 34A81234 34A81234	Plate Type Votor Whote Whote Whote Whote Whote Whote Whote	Log Search Plate Type: All License Plate: Start Time: 2019:02-14 00:00:00 End Time: 2019:03-14 20:56:18		
P PR Jgs ystem		Time 2016-02-14 17.23.34 2016-02-14 14.23.34 2016-02-14 14.48.56 2016-02-14 14.48.56 2016-02-14 14.48.56 2016-02-14 14.48.56 2016-02-14 14.48.56 2016-02-14 14.48.56 2016-02-14 14.48.56 2016-02-14 14.48.56 2016-02-14 14.48.56 2016-02-14 14.48.46	9430 34A81234 34A81234 34A81234 34A81234 34A81234 34A81234 34A81234 34A81234 34A81234	Plate Type Vistor Whee White White White White White White White	Log Search Plate Type: All License Plate License Plate: Start Time: End Time: End Time: End Time:		
P R gs rstem		Time 2014-02.14 17 23.34 2014-02.14 14 22.34 2014-02.14 14 44.87 2014-02.14 14 44.87 2014-02.14 14 44.87 2014-02.14 14 44.85 2014-02.14 14 44.85 2014-02.14 14 44.85 2014-02.14 14 44.85 2014-02.14 14 44.85 2014-02.14 14 44.85 2014-02.14 14 44.86 2014-02.14 14 44.86 2014-02.14 14 44.86 2014-02.14 14 44.86	9438 3441524 34401524 34401524 34401524 34401524 34401524 34401524 34401524	Plate Type Valar Voha Voha Voha Voha Voha Voha Voha Voha	Log Search Plate Type: All License Plate: Start Time: 2019:02-14 00:00:00 End Time: 2019:03-14 20:56:18		
SIP LPR Logs System		Time 2014-02-14, 17:23.34 2014-02-14, 14:48, 07 2014-02-14, 14:48, 07 2014-02-14, 14:48, 05 2014-02-14, 14:48, 05 2014-02-14, 14:48, 05 2014-02-14, 14:48, 05 2014-02-14, 14:48, 05 2014-02-14, 14:48, 05 2014-02-14, 14:48, 05 2014-02-14, 14:48, 05 2014-02-14, 14:48, 05 2014-02-14, 14:48, 05 2014-02-14, 14:48, 06 2014-02-14, 14:48, 06 2014-02-14, 14:48, 48 2014-02-14, 14:48, 48 2014-02-14, 14:48, 48	9400 34481234 34481234 34481234 34481234 34481234 34481234 34481234 34481234 34481234 81234 34481234	Plate Type Vistor White White White White White White White White White White White	Log Search Plate Type: All License Plate: Start Time: 2019:02-14 00:00:00 End Time: 2019:03-14 20:56:18		
SIP LPR Logs System		Time 2014-02.14 17 23.34 2014-02.14 14 22.34 2014-02.14 14 44.87 2014-02.14 14 44.87 2014-02.14 14 44.87 2014-02.14 14 44.85 2014-02.14 14 44.85 2014-02.14 14 44.85 2014-02.14 14 44.85 2014-02.14 14 44.85 2014-02.14 14 44.85 2014-02.14 14 44.86 2014-02.14 14 44.86 2014-02.14 14 44.86 2014-02.14 14 44.86	9438 3441524 34401524 34401524 34401524 34401524 34401524 34401524 34401524	Plate Type Valar Voha Voha Voha Voha Voha Voha Voha Voha	Log Search Plate Type: Aa License Plate: Start Time: 2019:03-14 20:50:18 Correl. Correl.		

The detect results in real time will be displayed on the right side of Logs page, including detected time, live screenshot, and license plate.

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

Time	Snapshot	License Plate	
2019-03-14 14:48:57	34 AB 1234	34AB1234	^
2019-03-14 14:48:56	34 AB 1234	34AB1234	
2019-03-14 14:48:55	34 AB 1234	34AB1234	
2019-03-14 14:48:54	34 AB 1234	34AB1234	~

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

Show	30	Y	entries

Time	License Plate	Plate Type	Log Search
2019-03-14 17:23:34	5НЗК	Visitor	Plate Type:
2019-03-14 14:48:57	34AB1234	White	All
2019-03-14 14:48:56	34AB1234	White	License Plate:
2019-03-14 14:48:55	34AB1234	White	License ridle.
2019-03-14 14:48:54	34AB1234	White	Start Time:
2019-03-14 14:48:53	34AB1234	White	2019-02-14 00:00:00
2019-03-14 14:48:52	34AB1234	White	End Time:
2019-03-14 14:48:51	34AB1234	White	
2019-03-14 14:48:50	34AB1234	White	2019-03-14 20:56:18
2019-03-14 14:48:49	34AB1234	White	Search
2019-03-14 14:48:48	B1234	Visitor	
2019-03-14 14:48:48	34AB1234	White	Log Export
2019-03-14 14:48:47	B1234	Visitor	Log Export
2019-03-14 14:48:47	34AB1234	White	
2010 02 14 14.40.40	2440	10-0	

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

4.5.8 Logs

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

Time	Main Type	Sub Type	Param	User	IP	Detail	Log Search
017-09-04 13:35:41	Operation	RTSP Session Stop	-	-	192.168.8.50	stop one session.	Main Type:
017-09-04 13:29:18	Operation	RTSP Session Start	-	(1 7 1)	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:
017-09-04 13:28:54	Operation	RTSP Session Start	12	120	192.168.8.50	start one session.	All Types V
017-09-04 13:28:53	Operation	Login Remotely	-	admin	192.168.8.50		N- 1000
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	78	1070		-	End Time:
017-09-02 18:37:57	Information	IR-CUT Off	-	-	-		2017-09-04 13:30:26
017-09-02 05:41:22	Information	IR-CUT On	23	122	ž.	14	Search
017-09-01 18:43:37	Information	IR-CUT Off	53		π.		
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	4	Log Export
017-09-01 16:55:19	Operation	RTSP Session Start	=	() - ()	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 V
		Motion Dotection					

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

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Log Export	Export the logs
Save Period	Set the period of log saving. There are eight options to choose: Permanent and 30/60/120/180/240/300/360 Days.
Go	Input the number of logs' page.

4.6 System

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

System	
Device Name:	Network Camera
Product Model:	MS-C2961-EB
Hardware Version:	V1.1
Software Version:	40.7.0.69-r2
MAC Address:	1C:C3:16:21:98:04
Device Information:	SE010E5A70N3
Alarm Input:	1
Alarm Output:	1
Uptime:	11 days 2 hours 2 minutes

Table 4-6-1 Description of the parameters

Parameters	Function Introduction
Device Name	The device name can be customized. It will be seen in file names of video files.
Product Model	The product model of the camera
Hardware Version	The hardware version of the camera
Software Version	The software version of the camera can be upgraded
MAC Address	Media Access Control address
Device Information	The device information, including information about alarm I/O and clipper chip
Alarm Input	The number of Alarm Input interface
Alarm Output	The number of Alarm Output interface
Uptime	The elapsed time since the last restarted of the device

Note:

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

4.7 Maintenance

4.7.1 System Maintenance

The software can be upgraded by the following steps:

Step1: Browse and select the upgrading file;

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

Note:

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

System Upgrade	
Software Version:	40.7.0.69-г2
Firmware File:	Browse
Upgrade 🗌 Reset after Upgrading	Upgrade
Note: Do not disconnect the power	r 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 4-7-1 Description of the buttons

Parameters	Function Introduction
System Upgrade	Software Version: The software version of the camera Firmware File: Select the firmware used to upgrade Reset after Upgrading: Check this option to reset the camera after upgrading it

	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

4.7.2 Auto Reboot

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

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 51st 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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