

Fisheye Network Camera User Manual V1.13

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

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

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

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

Copyright Statement

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Milesight reserves the right to change this manual and the specifications without prior notice. The latest specifications and user documentation for all Milesight products are available on our official website www.milesight.com

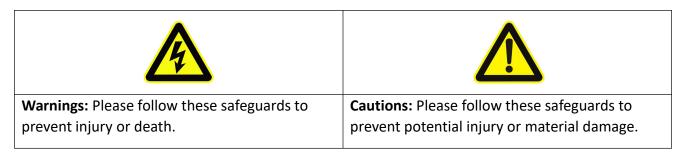
Industry Canada ICES-003 Compliance:

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil 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;
- 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 provides a consistent range of cost-effective and reliable Fisheye Network Camera to fully meet your requirements. Based on embedded Linux operating system, Milesight Fisheye Network Camera could be easily accessed and managed either locally or remotely with great reliability. With built-in high-performance DSP video processing modules, the cameras pride on low power consumption and high stability. They support state-of-the-art H.265/ H.264/ MJPEG video compression algorithm and industry-leading HD dual-stream technology to achieve the highest level of video image quality under the limited network resources. It is fully functional, supporting for flexible and comprehensive alarm linkage mechanism, and features with advanced technology, bringing panoramic viewing experience. It has the effect of more than 4 regular network cameras. The ultra high resolution and latest design guarantee the detailed images and enjoy-able user-experience.

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

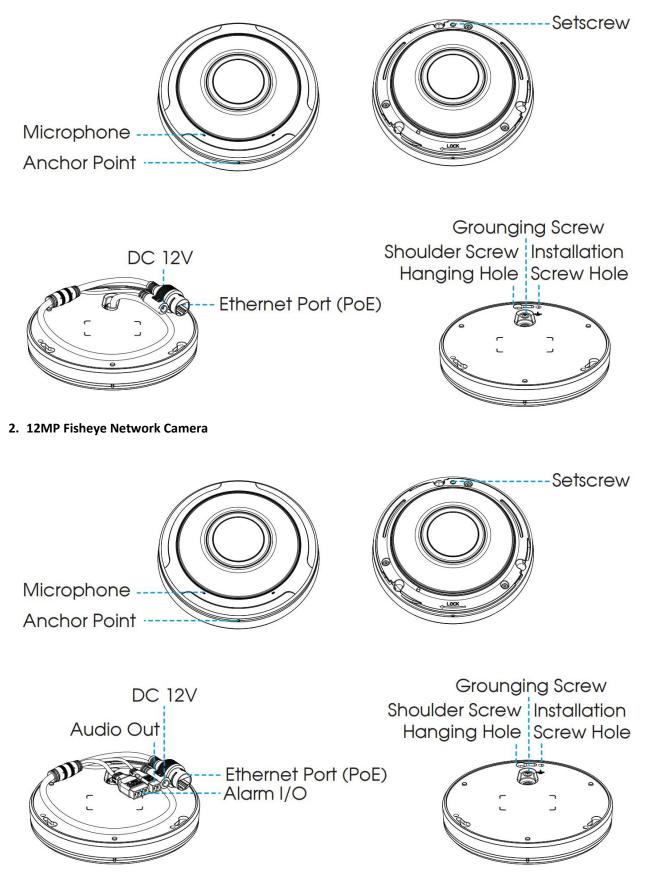
1.2 Key Features

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

1.3 Hardware Overview

1. 5MP Fisheye Network Camera

Milesight



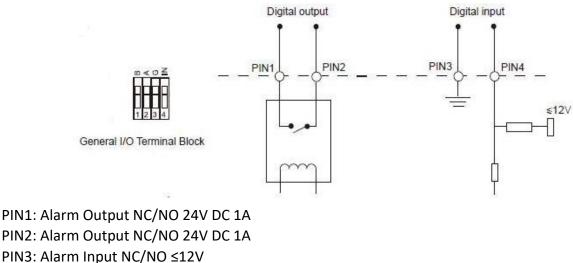


Note:

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

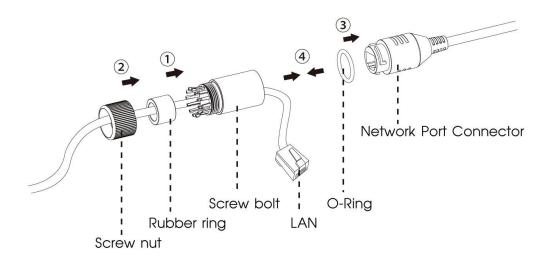
1.4 How to Connect to Alarm Interface

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



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

1.5 How to Connect the Water-proof Connector



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



1.6 System Requirements

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

Chapter II Network Connection

2.1 Setting the Camera over the LAN

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

2.1.1 Connect the Camera to the PC Directly

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

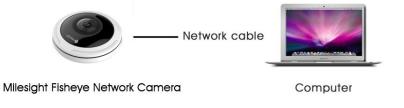


Figure 2-1-1 Connect the camera to the PC directly

2.1.2 Connect via a Switch or a Router

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



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

2.2 Dynamic IP Connection

Connecting the network camera via a router

- Step1: Connect the network camera to a router;
- Step2: On the camera, assign a LAN IP address, a Subnet mask and a Gateway;
- Step3: On the router, set port forwarding. E.g. 80, 8000 and 554 ports. The steps for port forwarding vary depending on different routers. Please look up the router's user manual for assistance with port forwarding;
- Step4: Apply a domain name from a domain name provider;



Step5: Configure the DDNS settings in the setting interface of the router; Step6: Visit the camera via the domain name.

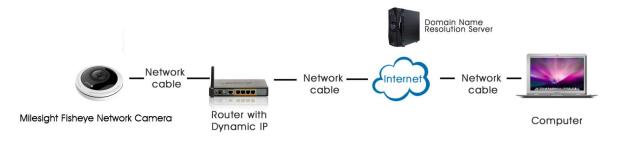


Figure 2-2 Connect the network camera via a router using dynamic IP



Chapter III Accessing the Network Camera

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

3.1 Assigning An IP Address

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

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

3.1.1 Assigning An IP Address Using Smart Tools

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

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

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

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	▶` IP(C Tools		letwork	Setting			Upgrade		କି 1234 ପ୍ Sear	5678 💿 ch here
•	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version
n i	25	Network Camera	Active	1C:C3:16:22:16:7E	192.168.4.105	80	255.255.240.0	192. <mark>1</mark> 68.4.1	MS-C2961- RELB	2019-09-30 09:54:28	43.7.0.72-
-	26	Network Camera	Active	1C:C3:16:20:10:45	192 168 4 106	80	255,255,240.0	192,168,4,1	MS-C2961-	2019-09-29	43.7.0.72-
-	27	MS-C2941- X30TPB	Active	1C:C3:16:25:26:81		80	255.255.240.0		QELPB MS-C2941- X30TPB	13:59:59 2019-09-20 18:23:27	LPR2-r2 43.7.0.72-4
-	28	Network Camera	Active	1C:C3:16:26:73:76	192.168.4.122	80	255.255.240.0	192.168.4.1	MS-C8151-EPB	2019-09-20	43.7.0.72
-	29	Network Camera	Active	1C:C3:16:26:3D:	192.168.4.123	80	255.255.255.0	192.168. <mark>4</mark> .1	MS-C2962- RELPB	2019-09-26 08:51:32	43.7.0.72- LPR1-r2
0	30	Network Camera	Active	1C:C3:16:21:65:71	192.168.4.137	80	255.255.240.0	192.168. <mark>4</mark> .1	MS-C4463-PB	2019-06-19 11:16:54	41.7.0.69
	31	Network Camera	Active	1C:C3:16:21:0C: 39	192.168.4.138	80	255.255.240.0	192.168.4.1	MS-C3762-FIPB	2019-09-11 18:14:11	41.7.0.72
0	32	Network Camera	Active	1C:C3:16:25:B8:	192.168.4.144	80	255.255.240.0	192.168.9.2	MS-C5374-PB	2019-09-30 09:02:34	43.7.0.72-fsh- autotrack-a2
-	33	Network Camera	Active	1C:C3:16:26:43:35	192.168.4.157	80	255.255.240.0	192. <mark>1</mark> 68. <mark>4</mark> .1	MS-C5341- X30HPB	2019-09-25 09:00:49	43.7.0.72
5	34	Network Camera	Active	1C:C3:16:25:5C: 97	192.168. <mark>4</mark> .160	80	255.255.240.0	192.168.5.1	MS-C8162-FPB	2019-09-29 18:15:46	43.7.0.72- test2
-	25	Notwork Camora	Activo	10-02-16-25-08-27	102 169 / 165	0.0	255 255 240.0	102 169 4 1	MS-C2841-	2019-09-26	4270722
1/392)pera	C ting Info	Device Name: (Dem rmation	o-PTZ	IP: 192.168.14	.103 Port 808	83	Netmask: 255.		Gateway: (192.16) Activate 🛃 E	3.14.1 DNS xport Device List	8 .8 .8 .8 Modify
										😐) Save	🛞 Clear
						V2.4.					

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

				Network	Setting		Preview	Upgrade	1	Q (Sear	ch here	
•	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
r	58	Network Camera	Active	1C:C3:16:24:60:F6	192.168.7.80	80	255.255.240.0	192.168.7.1	MS-C2975-PB	2019-03-11 14:14:32	40.7.0.67-r6	1
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	1
r	60	Network Camera	Active	1C:C3:16:23:C8:4D	192.168.7.86	80	255.255.240.0	192.168.8.2	MS-C5362-EPB	2019-03-08 08:32:58	41.7.0.67-r1	1
ſ	61	MS-C2975-PB	Active	1C:C3:16:24:60:DE	192. <mark>168.7.9</mark> 3	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]
r	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	1
r	64	MS-C2964-FPB	Active	1C:C3:16:24:09:D2	192.168.7.110	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-03-11 09:34:43	40.7.0.69-r2	1
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	1
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	3
r	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	1
r	68	Network Camera	Active	1C:C3:16:11:02:40	192.168.7.190	80	255.255.255.0	192.168.7.1	NC3263-PNA	2019-01-10 11:07:21	30.7.1.63-r20	1
-						- 00		100 100 7 0		2019-02-27		-
1/354		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	IST 8 .8 .8 .8	-
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Onera	ting Infor							2	🧿 Activate 👌	Export Device Li	st 🗶 Moo	
10000												

Select single camera

	No.	Device Name	Status	MAC	IP A	Port 80	Netmask	Gateway	Model MS-C2975-PB	Run-up Time 2019-03-11	Version 40.7.0.67-r6	(
r	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	1
•	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	1
•	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	1
•	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	1
•	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	1
C	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	1
C	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 2019-03-11	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	09:14:09 2019-01-10	41.7.0.67-a4	1
r Î	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	11:07:21 2019-02-27	30.7.1.63-r20	(
5/354		🔵 Same IP 🛛 🕄	Start IP:	192.168.7 .100	Port: 80		tmask: 255.255.	240.0 @	ateway: 192.168.7	.1 DNS	8.8.8	5
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operat	ng nilo											

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;

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	`	PC Tools					Preview			Q Sea	234 rch here	-
	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	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	2019-03-11 14:14:32	40.7.0.67-r6	
	59	Network Camera	Active	1C:C3:16:22:0C:74	192.168.7.81	80	255.255.240.0	192.168.7.1	MS-C8262-FPB	2019-03-11 13:49:07	43.7.0.68	
r	60	Network Camera	Active	1C:C3:16:23:C8:4D	192.168.7.86	80	255.255.240.0	192.168.8.2	MS-C5362-EPB	2019-03-08 08:32:57	41.7.0.67-r1	
r	61	MS-C2975-PB	Active	1C:C3:16:24:60:DE	192. <mark>1</mark> 68.7.93	80	255.255.240.0	192.168.7.1	MS-C2975-PB	2019-03-11 16:38:03	40.7.0.69	
•	62	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-03-06 09:34:45	41.7.0.67-r14	
0	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	
С	64	MS-C2964-FPB	Active	1C:C3:16:24:09:D2	192.168 <mark>.7.11</mark> 0	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	192.168.7.113	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	
C	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	
С	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	
-				10.00.10.00.01.00	100 100 7 000	- 0.0	055 055 010 0	100 100 7 0	UA 00031 PR	2019-02-27		-
1/354	; (Device Name: <mark>(letwo</mark>	rk Carner	a IP: 192.168.7 .	100 Port 80	5	Netmask 25	5.255.240.0	Gateway: 192.1	68.7 .1 DN	IS 8.8.8 8	
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Opera	ting Infor	mation									-	
										💾) Sa	/e 🛞 Clea	

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

above), click **Oraclivate** 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:

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- (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.

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			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?		-		(i) 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;

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PC	C Tools		letwork	Setting			Ungrade		A (123	345678	0
			IELWOIK.	Detting	191	eview	opgrade		Q Sea	arch here	
No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
58	Network Camera	Active	1C:C3:16:90:81:5E	192.168.7.92	80	255.255.240.0	192.168.7.1	NC9674-PB	17:36:18	43.7.1.72	C
59	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-09-23 14:06:52	41.7.0.72-a5	C
60	Network Camera	Active	1C:C3:16:21:00:22	192.168.7.104	80	255.255.240.0	192.168.7.1	MS-C2962-FIPB	2019-09-02 03:22:14	40.7.0.69-r11	C
61	Network Camera	Active	1C:C3:16:24:09:	192.168.7.114	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-09-30 08:55:39	40.7.0.72	6
62	Network Camera	Active	1C:C3:16:23:01:39	192.168.7.124	80	255.255.240.0	192.168.9.2	MS-C2962-FPB	2019-09-26 08:28:26	41.7.0.71-r35	6
63	IPCAM	Active	1C:C3:16:21:FA:67	192.168. <mark>7.1</mark> 32	80	255.255.255.0	192.168.5.1	MS-C3772-FIPB	2019-09-27	41.7.0.71-r15	C
64	Network Camera	Active	1C:C3:16:24:66:A1	192.168.7.161	80	255.255.240.0	192.168.5.1	MS-C2962-FPB	2019-09-26	40.7.0.71-r8	C
65	Network Camera	Active	1C:C3:16:22:19:6F	192.168.7.201	80	255.255.240.0	192.168.7.1	MS-C9674-PB	2019-09-17	43.7.0.72-fsh-	C
66	Network Camera	Active	1C:C3:16:22:01:0B	192.168.7.202	4200	255.255.240.0	192.168.7.2	MS-C9674-PB	2019-07-31	42.7.0.67-r1	C
67	202大会议室1	Active	1C:C3:16:21:01:10	192.168.7.212	80	255.255.240.0	192.168.7.1	MS-C2972-FPB	2019-09-25	40.7.0.71-r15	C
03	2021年本公会2	Activo	10-02-16-01-20-	100 160 7 014	00	255 255 240 0	100 169 7 1	MS C2072 PD	2019-09-26	40 7 0 71 r15	C
		k Camera	a IP 192.168.7	.114) Port (80	0	Netmask: 25	5.255.240.0	Gateway: 192.1 Activate			ify
2019	-09-30 09:10:53		1	1C:C3:16:24:09:D2	2] Modi	fy IP:192.168.7.11	3->192.168.7.1	14 successfully.			
	No. 58 59 60 61 62 63 64 65 66 67 67 0 20	No. Device Name 58 Network Camera 59 Network Camera 60 Network Camera 61 Network Camera 62 Network Camera 63 IPCAM 64 Network Camera 65 Network Camera 66 Network Camera 67 202大会议室1 68 202大会议室2	No. Device Name Status 58 Network Camera Active 59 Network Camera Active 60 Network Camera Active 61 Network Camera Active 62 Network Camera Active 63 IPCAM Active 64 Network Camera Active 65 Network Camera Active 66 Network Camera Active 67 202大会议室1 Active 68 Janathio Schwarz Active 69 Janathio Schwarz Active 60 Network Camera Active 61 Janathio Schwarz Active 62 Janathio Schwarz Active 63 Janath	No. Device Name Status MAC 58 Network Camera Active 1C:C3:16:90:81:5E 59 Network Camera Active 1C:C3:16:20:00:EF 60 Network Camera Active 1C:C3:16:20:00:EF 61 Network Camera Active 1C:C3:16:21:00:22 61 Network Camera Active 1C:C3:16:24:09 62 Network Camera Active 1C:C3:16:23:10:39 63 IPCAM Active 1C:C3:16:24:66:A1 64 Network Camera Active 1C:C3:16:22:10:EF 66 Network Camera Active 1C:C3:16:22:10:EF 67 202大会议室1 Active 1C:C3:16:21:01:10 68 202t会议室2 Active 1C:C3:16:21:01:10 69 202t会议室2 Active 1C:C3:16:21:01:20 7 202t会议室2 Active 1C:C3:16:21:01:20 7 202t会议室2 Active 1C:C3:16:21:01:20 7 202t会议室2 Active 1C:C3:16:21:01:20 7 <td>Network Device Name Status MAC IP 58 Network Camera Active 10:C3:16:90:81:5E 192.168.7.92 59 Network Camera Active 10:C3:16:20:00:EF 192.168.7.100 60 Network Camera Active 10:C3:16:20:00:EF 192.168.7.104 61 Network Camera Active 10:C3:16:24:00: 192.168.7.124 63 IPCAM Active 10:C3:16:21:FA:67 192.168.7.132 64 Network Camera Active 10:C3:16:24:66:A1 192.168.7.132 65 Network Camera Active 10:C3:16:22:19:6F 192.168.7.202 66 Network Camera Active 10:C3:16:22:19:6F 192.168.7.202 67 202大会议室1 Active 10:C3:16:21:01:10 192.168.7.212 89 202‡ Active 10:C3:16:21:01:10 192.168.7.214 Device Name: etwork Camera IP: 192.168.7.114 Port 192.168.7.214</td> <td>No. Device Name Status MAC IP Port 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.92 80 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 60 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.104 80 61 Network Camera Active 1C:C3:16:24:09 192.168.7.114 80 62 Network Camera Active 1C:C3:16:23:01:39 192.168.7.124 80 63 IPCAM Active 1C:C3:16:24:66.41 192.168.7.132 80 64 Network Camera Active 1C:C3:16:22:19.6F 192.168.7.101 80 65 Network Camera Active 1C:C3:16:22:10.6F 192.168.7.201 80 66 Network Camera Active 1C:C3:16:22:01:0B 192.168.7.201 80 67 202大会议室1 Active 1C:C3:16:21:01:10 192.168.7.212 80 68 202t会 公议室1 Active <td< td=""><td>Network Setting Preview No. Device Name Status MAC IP Port Netmask 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.100 80 255.255.240.0 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 60 Network Camera Active 1C:C3:16:21:00:22 192.168.7.104 80 255.255.240.0 61 Network Camera Active 1C:C3:16:23:01:39 192.168.7.114 80 255.255.240.0 62 Network Camera Active 1C:C3:16:23:01:39 192.168.7.132 80 255.255.240.0 63 IPCAM Active 1C:C3:16:21:61:63 192.168.7.132 80 255.255.240.0 64 Network Camera Active 1C:C3:16:22:19:6F 192.168.7.132 80 255.255.240.0 65 Network Camera Active 1C:C3:16:22:01:0B 192.168.7.211 80 255.255.240.0 66 Network Camera Active<!--</td--><td>No. Device Name Status MAC IP Port Netmask Gateway 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.92 80 255.255.240.0 192.168.7.1 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 60 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.114 80 255.255.240.0 192.168.7.11 61 Network Camera Active 1C:C3:16:20:01:29 192.168.7.114 80 255.255.240.0 192.168.7.11 62 Network Camera Active 1C:C3:16:20:01:39 192.168.7.124 80 255.255.240.0 192.168.7.11 63 IPCAM Active 1C:C3:16:20:101:30 192.168.7.124 80 255.255.240.0 192.168.7.11 64 Network Camera Active 1C:C3:16:20:101:4767 192.168.7.121 80 255.255.240.0 192.168.7.11 65 Network Camera Active 1C:C3:16:20:101:41 192.168.7.21</td><td>No. Device Name Status MAC IP Preview Opgrade 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.10 80 255.255.240.0 192.168.7.1 NC9674-PB 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 60 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 61 Network Camera Active 1C:C3:16:24:09: 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2962-FPB 62 Network Camera Active 1C:C3:16:24:06: 192.168.7.124 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 63 IPCAM Active 1C:C3:16:24:66:A1 192.168.7.124 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 64 Network Camera Active 1C:C3:16:22:19:EF 192.168.7.21 80 255.255.240.0 192.168.7.1 MS</td><td>Network Device Name Status MAC IP Port Netmask Gateway Model Run-up Time 58 Network Camera Active 1C:C3:16:00:81:5E 192.168.7.92 80 255.255.240.0 192.168.7.1 NC:9674-PB 2019-09-24 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 2019-09-24 60 Network Camera Active 1C:C3:16:21:00:22 192.168.7.104 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 2019-09-23 61 Network Camera Active 1C:C3:16:21:00:22 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2962-FPB 2019-09-26 62 Network Camera Active 1C:C3:16:21:64.67 192.168.7.122 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 2019-09-26 08:28:26 63 IPCAM Active 1C:C3:16:21:64.66.A1 192.168.7.132 80 255.255.240.0 192.168.5.1 MS-C2962-FPB <</td><td>Network Settering Preview Opgrade Q Gearch here No Device Name Status MAC IP Port Netmask Gateway Model Run-up Time Version 58 Network Camera Active 1C:C3:16:90:81:5E 192:168.7:10 80 255:255:240.0 192:168.7:1 NC9674-PB 2019-09-24 43:7.1.72 59 Network Camera Active 1C:C3:16:20:00:EF 192:168.7:10 80 255:255:240.0 192:168.7:1 MS-C2862-FPB 2019-09-24 43:7.1.72 60 Network Camera Active 1C:C3:16:24:09 192:168.7:14 80 255:255:240.0 192:168.7:1 MS-C2962-FPB 2019-09-26 40:7.0.72 61 Network Camera Active 1C:C3:16:24:06.1 192:168.7:124 80 255:255:240.0 192:168.5:1 MS-C2962-FPB 2019-09-26 40:7.0.72 62 Network Camera Active 1C:C3:16:22:16.6:1 192:168.7:14 80 255:255:240.0 192:168.5:1 MS-C2962-FPB 2019-09-26 40:7.0.</td></td></td<></td>	Network Device Name Status MAC IP 58 Network Camera Active 10:C3:16:90:81:5E 192.168.7.92 59 Network Camera Active 10:C3:16:20:00:EF 192.168.7.100 60 Network Camera Active 10:C3:16:20:00:EF 192.168.7.104 61 Network Camera Active 10:C3:16:24:00: 192.168.7.124 63 IPCAM Active 10:C3:16:21:FA:67 192.168.7.132 64 Network Camera Active 10:C3:16:24:66:A1 192.168.7.132 65 Network Camera Active 10:C3:16:22:19:6F 192.168.7.202 66 Network Camera Active 10:C3:16:22:19:6F 192.168.7.202 67 202大会议室1 Active 10:C3:16:21:01:10 192.168.7.212 89 202‡ Active 10:C3:16:21:01:10 192.168.7.214 Device Name: etwork Camera IP: 192.168.7.114 Port 192.168.7.214	No. Device Name Status MAC IP Port 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.92 80 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 60 Network Camera Active 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1C:C3:16:22:19:6F 192.168.7.132 80 255.255.240.0 65 Network Camera Active 1C:C3:16:22:01:0B 192.168.7.211 80 255.255.240.0 66 Network Camera Active<!--</td--><td>No. Device Name Status MAC IP Port Netmask Gateway 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.92 80 255.255.240.0 192.168.7.1 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 60 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.114 80 255.255.240.0 192.168.7.11 61 Network Camera Active 1C:C3:16:20:01:29 192.168.7.114 80 255.255.240.0 192.168.7.11 62 Network Camera Active 1C:C3:16:20:01:39 192.168.7.124 80 255.255.240.0 192.168.7.11 63 IPCAM Active 1C:C3:16:20:101:30 192.168.7.124 80 255.255.240.0 192.168.7.11 64 Network Camera Active 1C:C3:16:20:101:4767 192.168.7.121 80 255.255.240.0 192.168.7.11 65 Network Camera Active 1C:C3:16:20:101:41 192.168.7.21</td><td>No. Device Name Status MAC IP Preview Opgrade 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.10 80 255.255.240.0 192.168.7.1 NC9674-PB 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 60 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 61 Network Camera Active 1C:C3:16:24:09: 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2962-FPB 62 Network Camera Active 1C:C3:16:24:06: 192.168.7.124 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 63 IPCAM Active 1C:C3:16:24:66:A1 192.168.7.124 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 64 Network Camera Active 1C:C3:16:22:19:EF 192.168.7.21 80 255.255.240.0 192.168.7.1 MS</td><td>Network Device Name Status MAC IP Port Netmask Gateway Model Run-up Time 58 Network Camera Active 1C:C3:16:00:81:5E 192.168.7.92 80 255.255.240.0 192.168.7.1 NC:9674-PB 2019-09-24 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 2019-09-24 60 Network Camera Active 1C:C3:16:21:00:22 192.168.7.104 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 2019-09-23 61 Network Camera Active 1C:C3:16:21:00:22 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2962-FPB 2019-09-26 62 Network Camera Active 1C:C3:16:21:64.67 192.168.7.122 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 2019-09-26 08:28:26 63 IPCAM Active 1C:C3:16:21:64.66.A1 192.168.7.132 80 255.255.240.0 192.168.5.1 MS-C2962-FPB <</td><td>Network Settering Preview Opgrade Q Gearch here No Device Name Status MAC IP Port Netmask Gateway Model Run-up Time Version 58 Network Camera Active 1C:C3:16:90:81:5E 192:168.7:10 80 255:255:240.0 192:168.7:1 NC9674-PB 2019-09-24 43:7.1.72 59 Network Camera Active 1C:C3:16:20:00:EF 192:168.7:10 80 255:255:240.0 192:168.7:1 MS-C2862-FPB 2019-09-24 43:7.1.72 60 Network Camera Active 1C:C3:16:24:09 192:168.7:14 80 255:255:240.0 192:168.7:1 MS-C2962-FPB 2019-09-26 40:7.0.72 61 Network Camera Active 1C:C3:16:24:06.1 192:168.7:124 80 255:255:240.0 192:168.5:1 MS-C2962-FPB 2019-09-26 40:7.0.72 62 Network Camera Active 1C:C3:16:22:16.6:1 192:168.7:14 80 255:255:240.0 192:168.5:1 MS-C2962-FPB 2019-09-26 40:7.0.</td></td></td<>	Network Setting Preview No. Device Name Status MAC IP Port Netmask 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.100 80 255.255.240.0 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 60 Network Camera Active 1C:C3:16:21:00:22 192.168.7.104 80 255.255.240.0 61 Network Camera Active 1C:C3:16:23:01:39 192.168.7.114 80 255.255.240.0 62 Network Camera Active 1C:C3:16:23:01:39 192.168.7.132 80 255.255.240.0 63 IPCAM Active 1C:C3:16:21:61:63 192.168.7.132 80 255.255.240.0 64 Network Camera Active 1C:C3:16:22:19:6F 192.168.7.132 80 255.255.240.0 65 Network Camera Active 1C:C3:16:22:01:0B 192.168.7.211 80 255.255.240.0 66 Network Camera Active </td <td>No. Device Name Status MAC IP Port Netmask Gateway 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.92 80 255.255.240.0 192.168.7.1 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 60 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.114 80 255.255.240.0 192.168.7.11 61 Network Camera Active 1C:C3:16:20:01:29 192.168.7.114 80 255.255.240.0 192.168.7.11 62 Network Camera Active 1C:C3:16:20:01:39 192.168.7.124 80 255.255.240.0 192.168.7.11 63 IPCAM Active 1C:C3:16:20:101:30 192.168.7.124 80 255.255.240.0 192.168.7.11 64 Network Camera Active 1C:C3:16:20:101:4767 192.168.7.121 80 255.255.240.0 192.168.7.11 65 Network Camera Active 1C:C3:16:20:101:41 192.168.7.21</td> <td>No. Device Name Status MAC IP Preview Opgrade 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.10 80 255.255.240.0 192.168.7.1 NC9674-PB 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 60 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 61 Network Camera Active 1C:C3:16:24:09: 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2962-FPB 62 Network Camera Active 1C:C3:16:24:06: 192.168.7.124 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 63 IPCAM Active 1C:C3:16:24:66:A1 192.168.7.124 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 64 Network Camera Active 1C:C3:16:22:19:EF 192.168.7.21 80 255.255.240.0 192.168.7.1 MS</td> <td>Network Device Name Status MAC IP Port Netmask Gateway Model Run-up Time 58 Network Camera Active 1C:C3:16:00:81:5E 192.168.7.92 80 255.255.240.0 192.168.7.1 NC:9674-PB 2019-09-24 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 2019-09-24 60 Network Camera Active 1C:C3:16:21:00:22 192.168.7.104 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 2019-09-23 61 Network Camera Active 1C:C3:16:21:00:22 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2962-FPB 2019-09-26 62 Network Camera Active 1C:C3:16:21:64.67 192.168.7.122 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 2019-09-26 08:28:26 63 IPCAM Active 1C:C3:16:21:64.66.A1 192.168.7.132 80 255.255.240.0 192.168.5.1 MS-C2962-FPB <</td> <td>Network Settering Preview Opgrade Q Gearch here No Device Name Status MAC IP Port Netmask Gateway Model Run-up Time Version 58 Network Camera Active 1C:C3:16:90:81:5E 192:168.7:10 80 255:255:240.0 192:168.7:1 NC9674-PB 2019-09-24 43:7.1.72 59 Network Camera Active 1C:C3:16:20:00:EF 192:168.7:10 80 255:255:240.0 192:168.7:1 MS-C2862-FPB 2019-09-24 43:7.1.72 60 Network Camera Active 1C:C3:16:24:09 192:168.7:14 80 255:255:240.0 192:168.7:1 MS-C2962-FPB 2019-09-26 40:7.0.72 61 Network Camera Active 1C:C3:16:24:06.1 192:168.7:124 80 255:255:240.0 192:168.5:1 MS-C2962-FPB 2019-09-26 40:7.0.72 62 Network Camera Active 1C:C3:16:22:16.6:1 192:168.7:14 80 255:255:240.0 192:168.5:1 MS-C2962-FPB 2019-09-26 40:7.0.</td>	No. Device Name Status MAC IP Port Netmask Gateway 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.92 80 255.255.240.0 192.168.7.1 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 60 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.114 80 255.255.240.0 192.168.7.11 61 Network Camera Active 1C:C3:16:20:01:29 192.168.7.114 80 255.255.240.0 192.168.7.11 62 Network Camera Active 1C:C3:16:20:01:39 192.168.7.124 80 255.255.240.0 192.168.7.11 63 IPCAM Active 1C:C3:16:20:101:30 192.168.7.124 80 255.255.240.0 192.168.7.11 64 Network Camera Active 1C:C3:16:20:101:4767 192.168.7.121 80 255.255.240.0 192.168.7.11 65 Network Camera Active 1C:C3:16:20:101:41 192.168.7.21	No. Device Name Status MAC IP Preview Opgrade 58 Network Camera Active 1C:C3:16:90:81:5E 192.168.7.10 80 255.255.240.0 192.168.7.1 NC9674-PB 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 60 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 61 Network Camera Active 1C:C3:16:24:09: 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2962-FPB 62 Network Camera Active 1C:C3:16:24:06: 192.168.7.124 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 63 IPCAM Active 1C:C3:16:24:66:A1 192.168.7.124 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 64 Network Camera Active 1C:C3:16:22:19:EF 192.168.7.21 80 255.255.240.0 192.168.7.1 MS	Network Device Name Status MAC IP Port Netmask Gateway Model Run-up Time 58 Network Camera Active 1C:C3:16:00:81:5E 192.168.7.92 80 255.255.240.0 192.168.7.1 NC:9674-PB 2019-09-24 59 Network Camera Active 1C:C3:16:20:00:EF 192.168.7.100 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 2019-09-24 60 Network Camera Active 1C:C3:16:21:00:22 192.168.7.104 80 255.255.240.0 192.168.7.1 MS-C2862-FPB 2019-09-23 61 Network Camera Active 1C:C3:16:21:00:22 192.168.7.114 80 255.255.240.0 192.168.7.1 MS-C2962-FPB 2019-09-26 62 Network Camera Active 1C:C3:16:21:64.67 192.168.7.122 80 255.255.240.0 192.168.5.1 MS-C2962-FPB 2019-09-26 08:28:26 63 IPCAM Active 1C:C3:16:21:64.66.A1 192.168.7.132 80 255.255.240.0 192.168.5.1 MS-C2962-FPB <	Network Settering Preview Opgrade Q Gearch here No Device Name Status MAC IP Port Netmask Gateway Model Run-up Time Version 58 Network Camera Active 1C:C3:16:90:81:5E 192:168.7:10 80 255:255:240.0 192:168.7:1 NC9674-PB 2019-09-24 43:7.1.72 59 Network Camera Active 1C:C3:16:20:00:EF 192:168.7:10 80 255:255:240.0 192:168.7:1 MS-C2862-FPB 2019-09-24 43:7.1.72 60 Network Camera Active 1C:C3:16:24:09 192:168.7:14 80 255:255:240.0 192:168.7:1 MS-C2962-FPB 2019-09-26 40:7.0.72 61 Network Camera Active 1C:C3:16:24:06.1 192:168.7:124 80 255:255:240.0 192:168.5:1 MS-C2962-FPB 2019-09-26 40:7.0.72 62 Network Camera Active 1C:C3:16:22:16.6:1 192:168.7:14 80 255:255:240.0 192:168.5:1 MS-C2962-FPB 2019-09-26 40:7.0.

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: Eng	sh v
Wilesight User Name Password Bernember mail Login	
Download Plugin for Network Camera Copyright © Milesight All rights reserved.	

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

3.1.2 Assign An IP Address via Browser

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

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

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

eneral	
this capability. Otherwise, you for the appropriate IP settings	
 Obtain an IP address aut Ouse the following IP address 	
IP address:	192 . 168 . 1 . 10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 1 . 1
 Obtain DNS server addre Use the following DNS server: Preferred DNS server: Alternate DNS server: 	
🔲 Validate settings upon es	xit 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);

IP addresses	WINS		
			-
IP address		Subnet mask	
192, 168, 1, 10		255.255.255.0	
	Add	Edit Remo	ve
Default gateways:			
Gateway		Metric	
192.168.1.1		Automatic	
			_
	Add	Edit Remo	ve
Automatic metr	ic		
Automatic metr	200 yz		
Notes of the second second second	200 yz		Canc
Interface metric:	200 yz		

- Step2: Start the browser. In the address bar, enter the default IP address of the camera: http://192.168.5.190;
- Step3: If the camera's firmware version is lower than V4x.7.0.69, it will directly display the login

page, enter the user name and password when the LOGIN page appears; Default user name: admin Default password: ms1234



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

Note:

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



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

Miles	ight Network Can	nera												4	admin 🗗 Logout
0	Milesight	Basic S	Settings >>	Network											
	Live Video	TCP/IP	HTTP	RTSP	UPnP	DDNS Em	ail FT	P VLAN	PPP0E	SNMP	802.1x				
	Playback						O Ge	et IPv4 address a	tomatically						
							• Us	e fixed IPv4 addr	155						
	Local Settings						IP.	Address:		192. 168	. 14 . 102 Tes				
0	Basic Settings							4 Subnet Mask:			. 240. 0				
	Video							4 Default Gatewa			. 14 . 1				
	Image							sferred DNS Serv	BF:		. 14 . 1				
	Audio							/6 Mode: /6 Address:		Manual	~				
	Network							/6 Prefix:							
	Date & Time							6 Default Gatewa	w.						
o ^p	Advanced Settings							o benan outen							
	System									Save					
Ø	Maintenance														

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

3.2 Accessing from the Web Browser

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

3.2.1 Access with Plugin

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

Access over IE Browser

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

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

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

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

Click here to download and install controls manually

Note:

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

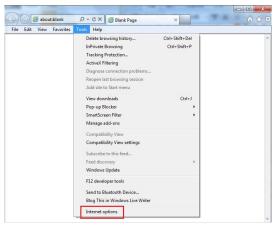
Step4: Follow the prompts to install the Controls, when it's finished, it will pop out a window as shown below. Please click "Finish" and refresh the browser, then you will see the video.

Milesight



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";

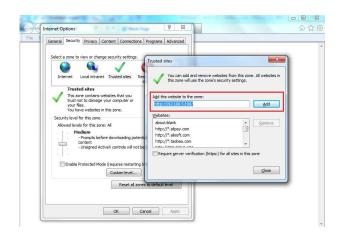


Step2: Select "Security" to "Trusted";

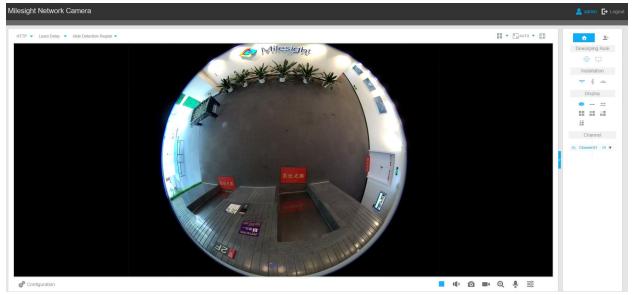
Select a zone	to view or chang	e security set	ting:		
		1	0	2	
Internet	Local intranet	Trusted site		tricted	
Tru	sted sites	L		Site	
V trust your	zone contains we not to damage y files. have websites in	your computer			
Security leve	el for this zone				
Allowed le	vels for this zone	: All			
	- Minimal safeg - Most content - All active con - Appropriate f	is downloade tent can run	d and run	without pro	
Enabl	e Protected Mode	e (requires re	starting In	nternet Expl	orer)
		Custom le	/el]	Default	evel
		Rese	t all zones	s to default	level
		Rese	t all zones	s to default	level

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

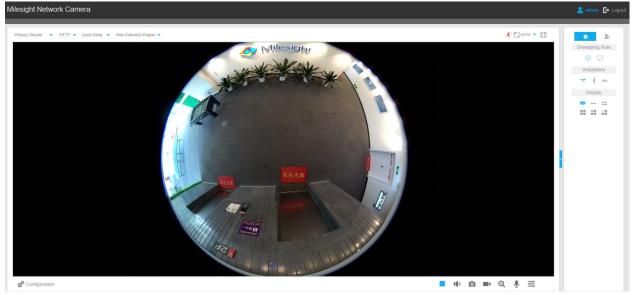




Step4: Enter the IP address. After logging on network camera's web GUI successfully, user is allowed to view live video as follows.



Live View Interface (Multi-Channel Mode)



Live View Interface (Bundle-Stream Mode)



3.2.2 Access without Plugin

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

Note:

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

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

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

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



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

3.3 Accessing from Milesight VMS (Video Management Software)

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

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



Chapter IV System Operation Guide

4.1 Live Video

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





Live view interface (Bundle-Stream Mode)

4.1.1 Operations on Live View Page

Display Control

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

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

Table 4-1-1 Description of Display Control buttons



	(Only for Hardware Dewarping)	
	101P3R (Only for Multi-Channel Mode of Hardware Dewarping)	Select live view of one original fisheye view, one 360° panoramic view and three regional views.
	1P1R (Only for Software Dewarping)	Select live view of one 360° panoramic view and one regional view.
	1P4R (Only for Software Dewarping)	Select live view of one 360° panoramic view and four regional views.
	1P6R (Only for Software Dewarping)	Select live view of one 360° panoramic view and six regional views.
	108R (Only for Software Dewarping)	Select live view of one original fisheye view and eight regional views.
Channel	Channel 01 (Only for Multi-Channel Mode)	Click to play this channel on any window of live view.
	Window Layout (Only for Multi-Channel Mode)	Click to set window layout to "1*1"/ "2*2"/ "1+4".
Window	Window Size	Click to display images at a window size.
	Real Size	Click to display images at a real size.
	Full Screen	Click to display images at full-screen.

Note:

A. Original fisheye view: the whole wide-angle view of the fisheye camera is displayed.

B. Panoramic view: the round fisheye image is transformed to rectangular image by certain calibration methods.

- C. Regional view: the close-up view of defined area in the original fisheye view or panoramic view.
- D. Select the Installation, Display mode and the most appropriate Window Layout in sequence.

Live View Window

Display live video on the window.

Tool Bar

No.	Parameter	Description
1	▶,■	Start/Stop all live view
2	Capture	Click to capture the current image and save to the configured path. The default path is C:VMS\+-1\ IMAGE-MANUAL
3	Start Recording	Click to start recording video and save to the configured path. The default path is C:VMS\+-1\MS_Record. Click again to stop recording
4	Saving Path Settings	Set the saving path for captured images and video recordings of operating on the live view
5	€ Enable Digital Zoom	When it is enabled, you can zoom in in a specific area of video image with your mouse wheel
		Brightness: Adjust the Brightness of the scene
	50	Contrast: Adjust the color and light contrast
	© 50 50 50 50 50 50 50 50 50 50	Saturation: Adjust the Saturation of the image.Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out"
6	A50	Sharpness: Adjust the Sharpness of image. Higher Sharpness sharps the pixel boundary and makes the image looks "more clear"
	Image Config	2D DNR/3D DNR: Adjust the noise reduction level
		Default: Restore brightness, contrast and saturation to default settings

Table 4-1-2 Description of Tool Bar buttons

Note:

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

PTZ Control

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

No.	Parameter	Description
1	Image: Second secon	Navigation key is used to control the direction. The rotation key is used for auto-rotation.
2	PTZ Speed	To adjust the speed of pan/tilt movements, from 1 to 10
3	** *	Click to zoom in and zoom out
4	O Preset	Enable to set 255 preset positions for each regional view channel
5	Patrol	Enable to set 8 patrol paths for each regional view channel
6	Auto Tracking	 With this option enabled, the camera can perform the digital Pan/Tilt/Zoom to track the moving objects automatically. Note: ①Auto Tracking is only supported in regional views. ②Auto Tracking is only supported in ceiling mounting mode of on-board dewarping mode.

Table 4-1-3 Description of PTZ Control buttons

Other

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

4.1.2 Set / Call a preset / Patrol

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

Set a preset:

Step1: In the PTZ control panel, select a preset number from the preset list;

Q	\odot	
001 Pres	et 1	
002 Pres	et 2	
003 Pres	et 3	
004 Pres	et 4	
005 Pres	et 5	

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

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

Step4: Click 📉 to delete the chosen preset.

Note:

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

Calling a preset:

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



Set / Call a patrol

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

Set a patrol:

Step1: In the PTZ control panel, click

to enter the patrol settings interface;

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

07

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





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

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

Step5: Click Save to save the patrol settings.

Note:

A. Patrol Speed only works in Patrol mode.

B. Patrol Time should be 0~120s.

Call a patrol:

In the PTZ control panel, select a defined patrol from the patrol list, and click 🕨 to call the patrol,

as shown below.

9	2 (Ð	
0	Path 1	•	\$ ×
0	Path 2		
0	Path 3		
Ø	Path 4		
Ø	Path 5		

Note:

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

4.2 Playback

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

Step1: Click ^{Configuration} and then click Playback on the menu bar to enter playback



interface;

ilesight Network Cam	nera							💄 admin 🕞 Li
Milesight	Playback							
Live Video								
Playback								Installation
Local Settings								- I -
Basic Settings Video								
Image								PTZ
Audio Network Date & Time							>	> >
d Advanced Settings								
🖳 System								E
Maintenance								
	10:00 21:00	12:00 13:0	3 14:00	2020-02-20 15:35:49 15:00	17:00 18:00	19:00 20:	00 21:00	
	► = 41 → 10			2020-02-20 Q 00 00	00 →		0 = 55	

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

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

Note:

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

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

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

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
	₩ •		201	7-05-23 🔍 00	00 00 →						

Button	Operation
	Play
П	Pause
	Stop
•	Speed Down
•	Speed Up
(Audio On/Off
Q	Search
	Go To
©/⊕	Time Narrow/Expand
	Start/Stop Recording
D	Snapshot
Q , Q	Zoom On/Off
	Full Screen

Table 4-2-1 Description of the buttons

Note:

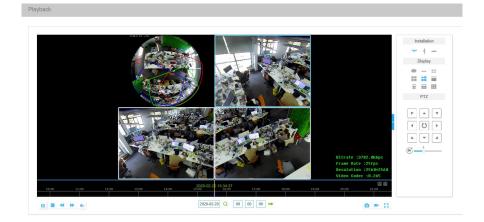
📀 Milesight

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



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





4.3 Local Settings

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

Miles	ight Network Carr	iera			💄 admin 🕞 Logout
0	Milesight	Local Settings			
	Live Video				
	Playback		Live View Settings Record File Length:	30 minutes	
	Local Settings		Record File Path:	C/IVMS\+-1\MS_Record\ Browse Open	
0	Basic Settings		Preview Picture Path:	C://VMS/+-1VMAGE-MANU Browse Open	
	Video		Playback Settings Playback Record File Path:	C://VMSH-1/Playback/MSBrowse_Open	
	Image Audio		Playback Picture Path:	C/IVMS\+-11Playback\IMA/ Browse Open	
	Network			Save	
~	Date & Time Advanced Settings				
	System				
Ó	Maintenance				

4.4 Basic Settings

4.4.1 Video

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

play Mode: ● ↔ 😄 📰 📰 📰			
	Stream Type :	Primary Stream	
	Video Codec :	H.264 V	
	Frame Size :	4000°3000 V	
	Maximum Frame Rate :	[25 V] fps	
	Bit Rate :	10240 V kbps	
	Smart Stream :	v mo]	
	Bit Rate Control :	VBR	
	Image Quality :	High	
	Profile :	Main	
	I-frame Interval :	50 frame (1-120)	

Stream Settings (Multi-Channel Mode)

Basic Settings >> Video			
Display Mode: 🗢 🕂 📰 📰 📰			
Primary Stream Secondary Stream			
	Video Codec :	H.265	
	Frame Size :	4000*3000 🗸	
	Maximum Frame Rate :	25 V fps	
	Bit Rate :	[10240 V] kbps	
	Smart Stream :	on 🗸	
	Bit Rate Control :	VBR	
	Image Quality :	High	
	Profile :	Main	
	I-frame Interval :	50 frame (1-120)	

Stream Settings (Bundle-Stream Mode)

Table 4-4-1 Description of the buttons

Parameters	Function Introduction
Channel (Only for Multi-Channel Mode)	 The number of channels are variable according to the selected display mode. 10 and 1P display one channel. 2P displays two channels. 4R, 103R and 1P3R display four channels. 101P3R displays five channels.
Display Mode (Only for Bundle-Stream Mode)	10/1P/2P/4R/103R/1P3R are available.
Stream Type (Only for Multi-Channel Mode)	Primary Stream/Secondary Stream are available.
Video Codec	H.265/H.264 are available.
Frame Size	For Multi-Channel Mode: 4000*3000, 3000*3000, 2560*2560, 2592*1944, 1944*1944, 1920*1920, 1536*1536, 1280*1280 are available frame size for original fisheye view in 10. 2560*2560, 1920*1920, 1536*1536, 1280*1280 are available frame size for original fisheye view in 103R and 101P3R. 3000*752, 2592*648, 2560*640, 1920*480, 1280*320 are available frame size for 360° panoramic view in 1P, 1P3R and 101P3R. 2560*640, 1920*480 are available frame size for 360° panoramic view in

For Bundle Stream Mode: 4000*3000, 3000*3000, 2560*2560, 1536*1536, 1280*1280 are available 3000*752, 2592*648, 2560*640, 192 size for 1P. 3000*1680, 2688*1520, 2592*1460, frame size for 2P.	iews in 2P. available frame size for regional view. , 2592*1944, 1944*1944, 1920*1920,
frame size for two 180° panoramic vi 1920*1080, 1280*720, 640*480 are For Bundle Stream Mode: 4000*3000, 3000*3000, 2560*2560, 1536*1536, 1280*1280 are available 3000*752, 2592*648, 2560*640, 192 size for 1P. 3000*1680, 2688*1520, 2592*1460, frame size for 2P.	iews in 2P. available frame size for regional view. , 2592*1944, 1944*1944, 1920*1920, e frame size for 1O. 20*480, 1280*320 are available frame , 1920*1080, 1280*720 are available ,2592*1944, 2304*1296 are available
1920*1080, 1280*720, 640*480 are For Bundle Stream Mode: 4000*3000, 3000*3000, 2560*2560, 1536*1536, 1280*1280 are available 3000*752, 2592*648, 2560*640, 192 size for 1P. 3000*1680, 2688*1520, 2592*1460, frame size for 2P.	available frame size for regional view. , 2592*1944, 1944*1944, 1920*1920, e frame size for 1O. 20*480, 1280*320 are available frame , 1920*1080, 1280*720 are available ,2592*1944, 2304*1296 are available
For Bundle Stream Mode: 4000*3000, 3000*3000, 2560*2560, 1536*1536, 1280*1280 are available 3000*752, 2592*648, 2560*640, 192 size for 1P. 3000*1680, 2688*1520, 2592*1460, frame size for 2P.	, 2592*1944, 1944*1944, 1920*1920, e frame size for 1O. 20*480, 1280*320 are available frame , 1920*1080, 1280*720 are available ,2592*1944, 2304*1296 are available
4000*3000, 3000*3000, 2560*2560, 1536*1536, 1280*1280 are available 3000*752, 2592*648, 2560*640, 192 size for 1P. 3000*1680, 2688*1520, 2592*1460, frame size for 2P.	e frame size for 1O. 20*480, 1280*320 are available frame , 1920*1080, 1280*720 are available ,2592*1944, 2304*1296 are available
1536*1536, 1280*1280 are available 3000*752, 2592*648, 2560*640, 192 size for 1P. 3000*1680, 2688*1520, 2592*1460, frame size for 2P.	e frame size for 1O. 20*480, 1280*320 are available frame , 1920*1080, 1280*720 are available ,2592*1944, 2304*1296 are available
3000*752, 2592*648, 2560*640, 192 size for 1P. 3000*1680, 2688*1520, 2592*1460, frame size for 2P.	20*480, 1280*320 are available frame , 1920*1080, 1280*720 are available ,2592*1944, 2304*1296 are available
size for 1P. 3000*1680, 2688*1520, 2592*1460, frame size for 2P.	, 1920*1080, 1280*720 are available ,2592*1944, 2304*1296 are available
3000*1680, 2688*1520, 2592*1460, frame size for 2P.	,2592*1944, 2304*1296 are available
frame size for 2P.	,2592*1944, 2304*1296 are available
	num refresh frame rate of per second, it
frame size for 4R, 103R and 1P3R.	num refresh frame rate of per second, it
Maximum Frame Rate means maxim	
is variable according to the display m	node selected.
Set the bitrate to 16~16384 Kbps. Th	e higher value corresponds to the
Bit Rate higher video quality, and the higher	bandwidth is required as well.
Smart Stream mode remarkably red	uces the bandwidth and the data storage
requirements for network cameras v	while ensuring the high quality of images
Smart Stream and it is a 10-level adjustable codec.	
There is an option to turn On/Off Sm	nart Stream mode.
Level: Level 0~10 are available to me	eet your need.
CBR: Constant Bitrate. The rate of CE	BR output is constant.
Bit Rate Control VBR: Variable Bitrate. VBR files vary	the amount of output date per time
segment.	
Image Quality Low/Medium/High are available, this	is item is optional only if you select VBR.
Profile	/Base can be selected according to your
needs.	
I-frame Interval	0 for the default. The number must be a
multiple of the number of frames	

4.4.2 Image

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



Display

esight Network Car	nera								💄 admin 🕞
Milesight	Basic Settings >> Image								
Live Video	Display Enhancement	Day/Night Mode	OSD Privacy Mask	ROI					
Playback					Hard Day				
 Local Settings 					A				
Ø Basic Settings						trate cfiller Skups			
Video					-20 PT	ane Rate streps			
Image					1 A A A A A A A A A A A A A A A A A A A	dro Codine, Alexan			
Audio						new Connection :3			
Network									
Date & Time					e Frequency:	60Hz 🗸			
Advanced Settings				Day/Nigh		Auto Mode V	-		
					Night Value:		Reset		
System					Day Value:		Reset		
Maintenance					ensor Value:	100 🕸			
				Smart IR		Customize V			
					iew Level:	100	Reset		
					w Level:		Reset		
				IR Streng		Near: 0 Far: 0 🗢			
					ndoor Mode:	Indoor V			
				Corridor I Image Re		011			
				image Ki	Galiforn.	Los V	1		
						Save			

Table 4-4-2 Description of the buttons

Parameters	Function Introduction
Power Line Frequency	60HZ flicker for NTSC mode and 50HZ flicker for PAL mode
Day/Night Mode	There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with this mode. Night Mode: Show in live view based on Night Mode settings Day Mode: Show in live view based on Day Mode settings 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
Day To Night Value	This is the sensitivity for switching Day Mode to Night Mode . When IR Light Sensor Current Value is lower than this value, it will switch Day Mode to Night Mode.
Night To Day Value	This is the sensitivity for switching Night Mode to Day Mode . When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode.
IR Light Sensor Value	The current value of the IR light sensor
Smart IR Mode	With the combination of the High Beam and Low Beam, The IR LEDs technology has been upgraded to provide better image clarity and quality regardless of the object distance. Customize mode is available.
IR Strength Value	The current value of Low-Beams LED and High-Beams LED light value

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Near view level	Adjust the light strength of Low-Beams LED light level from 0 to 100.
Far view level	Adjust the light strength of High-Beams LED light level from 0 to 100.
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs.
	There are three options available, you can select one to meet your need
Corridor Mode	Off: Keep the image in normal direction
Corridor Mode	Clockwise 90°: Rotate the image by 90° clockwise
	Anticlockwise 90°: Rotate the image by 90° anticlockwise
	There are four options available, you can select one to meet your need
	Off: Keep the image in normal direction
Image Rotation	Rotating 180°: Upside down the image
	Flip Horizontal: Flip the image horizontally
	Flip vertical: Flip the image vertically

Enhancement

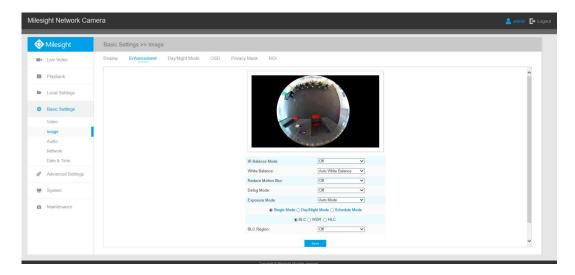


Table 4-4-3 Description of the buttons

Parameters	Function Introduction
IR Balance Mode	There is an option to turn On/Off the IR LED. Turn IR Balance Mode on, and the IR LED will change according to the actual illumination.
White Balance	To restore white objects and remove color distortion cause by the light of the environment Auto White Balance: This option will automatically enable the White Balance function; Manual White Balance: Set Red Gain Level and Blue Gain Level manually; Incandescent Lamp: Select this option when light is similar with incandescent lamp;

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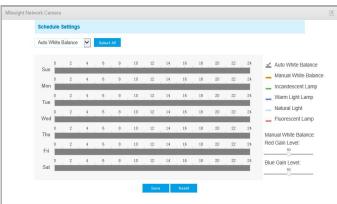
	Warm Light Lamp: Select this option when light is similar with warm light
	lamp;
	Natural Light : Select this option when there is no other light but natural light;
	Fluorescent Lamp: Select this option when light is similar with Fluorescent
	Lamp.
Reduce Motion Blur	Enable this function to reduce the motion blur of objects effectively.
	You can adjust the deblur level from 1 to 100.
Defog Mode	This function is only for H.265 series. Better image effect in foggy weather,
	refers to Figure 4-4-8
	Auto Mode, Manual Mode and Schedule Mode are available.
	Auto Mode: The camera will adjust the brightness according to the light
	environment automatically;
Exposure Mode	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	Sat single mode for PLC/WDP/HLC
Single Mode	Set single mode for BLC/WDR/HLC.
	Support BLC/WDR/HLC on Day Enhancement Mode/Night Enhancement Mode
Day/Night 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
	Reduce flickers that appear on screen in some lighting conditions and there are
Anti-flicker Level	10 levels of anti-flicker adjustments
	This function is only for H.265 series to adjust the brightness to a normal range
High Light Compensation	when the light is strong, refers to Figure 4-4-9
0 0	Off: Disable HLC function

	General Mode: Enable the general mode of HLC, and there is a setting for HLC
	Level
	Enhanced Mode: Enable the enhanced mode of HLC, and there is a setting for
	HLC Level
HLC Level	Select level for HLC
Day Enhancement Mode	BLC/WDR/HLC are available.
Night Enhancement	
Mode	BLC/WDR/HLC are available.
Schedule Setting	Customize the schedule to enable/disable BLC/WDR/HLC mode

Note:

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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.

Sche	dule Se	etting	IS												
Auto M	Node	~	Select	AII -											
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
Mor	0	2	. 4	6	8	10	12	14	16	18	20	22	24		WDR/HLC has high priority than exposu settings during the s
Weo	0	2	4	6	8	10	12	14	16	18	20	22	24		time frame.
Thu	0	2	. 4	6	8	10	12	14	16	18	20	22	24		
Eri	0	2	. 4	6	8	10	12	14	16	18	20	22	24		
Sat	0	2	4	6	8	10	12	14	16	18	20	22	24		

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

BLC N	ule Sett	ect All													
Sun	0 :	2	4	6	8	10	12	14	16	18	20	22	24	🖌 BLC	
	0 :	2	4	6	8	10	12	14	16	18	20	22	24	WDR	
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24		
Wed	0 1	2	4	6	8	10	12	14	16	18	20	22	24		
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24		
Fri	0 :	2	4	6	8	10	12	14	16	18	20	22	24		
Sat	0	2	4	6	8	10	12	14	16	18	20	22	24		

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



6) HLC Image.



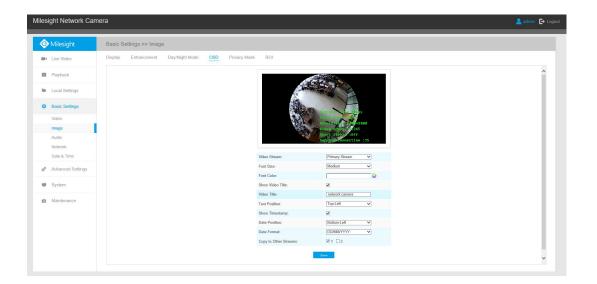
Day/Night Mode

۲		Basic Setti	ngs >> l	mage										
	Live Video	Display E	Enhancerr	ent Day/Night Mode	OSD Privacy N	lask F	01							
	Playback													
Sec.	Local Settings							And the second						
ø	Basic Settings							then .	F					
	Video								100					
	w manufacture													
	Image							Resident der						
								Remains of	265 :0FF					
	Image								265 :0Ff nnection :15					
	Image Audio							Day/Night Mode	205 :Off nnection :15					
	Image Audio Network Date & Time			Day/Night Mode	Exposure Level	Minimur		Maximum Shutter	U265 :OFF nnection :15	IR-CUT Latency	IR-CUT	IR LED	Color Mode	
	Image Audio Network			Night Mode:	5 🗸	1/30	×	Maximum Shutter	2205 :0FF nnection :15 Limit Gain Level [100]	10s 🗸	Off 🗸	On 🗸	B/W 🗸	
e ⁹	Image Audio Network Date & Time							Maximum Shutter 1/100000 ♥ 1/100000 ♥	U265 :OFF nnection :15					
e ⁹	Image Audio Network Date & Time Advanced Settings			Night Mode: Day Mode:	5 V 5 V	1/30	× ×	Maximum Shutter 1/100000 V 1/100000 V Schedule Mode	Limit Gain Level	10s V 10s V	Off V On V	On V Off V	BW V Color V	
°	Image Audio Network Date & Time Advanced Settings			Night Mode: Day Mode: Timer	5 V 5 V Exposure Level	1/30 1/30	▼ ▼	Maximum Shutter 1/100000 V 1/100000 V Schedule Mode Maximum Shutter	Limit Gain Level	10s V 10s V	Off V On V	On V Off V	BW V Color V	
o° ₩	Image Audio Network Date & Time Advanced Settings System			Night Mode: Day Mode: Timer 00 v) : 00 v) - 24 v) : 00	5 V 5 V Exposure Level	1/30 1/30 M	nimum Shutter	Maximum Shutter 1/100000 Schedule Mode Maximum Shutter 1/100000	Limit Gain Level	10s V 10s V IR-CUT Latency 10s V	Off V On V IR-CUT	On V Off V IR LED	BW V Color V Color Mode	
° ₽	Image Audio Network Date & Time Advanced Settings System			Night Mode: Day Mode: Timer 00 V : 00 V - 24 V : 00 00 V : 00 V - 24 V : 00	5 V 5 V Exposure Level V 5 V V 5 V	1/30 1/30 M	▼ ▼	Maximum Shutter 1/100000 V 1/100000 V Schedule Mode Maximum Shutter	Limit Gain Level	10s V 10s V		On V Off V IR LED Off V	BW V Color Mode B/W V B/W V	
o° ₩	Image Audio Network Date & Time Advanced Settings System			Night Mode: Day Mode: Timer 00 v) : 00 v) - 24 v) : 00	5 V 5 V Exposure Level V 5 V V 5 V V 5 V	1/30 1/30 M		Maximum Shutter [1/10000] [1/10000] Schedule Mode Maximum Shutter [1/10000] [1/10000] [1/10000] [1/10000]	Limit Gain Level	10s V 10s V IR-CUT Latency 10s V 10s V	Off V On V IR-CUT	On V Off V IR LED	BW V Color V Color Mode	

Table 4-4-4 Description of the buttons

Parameters	Function Introduction
Exposure Level	Level 0~10 are available to meet your need.
Minimum Shutter	Minimum Shutter is the same as Maximum Exposure Time. Set the minimum Shutter to 1~1/100000s
Maximum Shutter	Maximum Shutter is the same as Maximum Exposure Time. Set the maximum Shutter to $1^{-1}/100000$ s
IR-CUT Latency	The interval time of switching one mode to another.
IR-CUT	Turn on or turn off IR-CUT.
IR LED	Choose to turn on or turn off under this mode. LED off: Turn off all the LEDs on the device; IR LED on: Turn on the IR LED;
Color Mode	Select B/W or Color mode under Day/Night mode.
Schedule Mode	By this you can customize your special demands for different time, then the Day mode and Night mode will switch automatically according to your settings.

OSD(On Screen Display)



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

Table 4-4-5 Description of the buttons

Privacy Mask

Privacy mask enables to cover certain areas on the live video to prevent certain spots in the surveillance area from being viewed and recorded. You can set 8 mask areas at most.



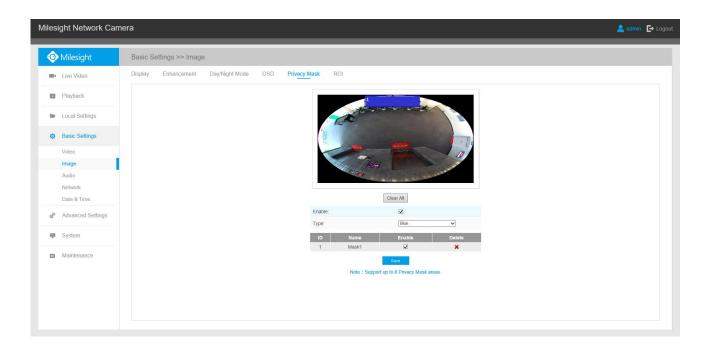


Table 4-4-6 Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the Privacy Mask function
Clear All	Clear all areas you drew before
Туре	Select the color to use for the privacy areas, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and Violet

Note:

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

ROI

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

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



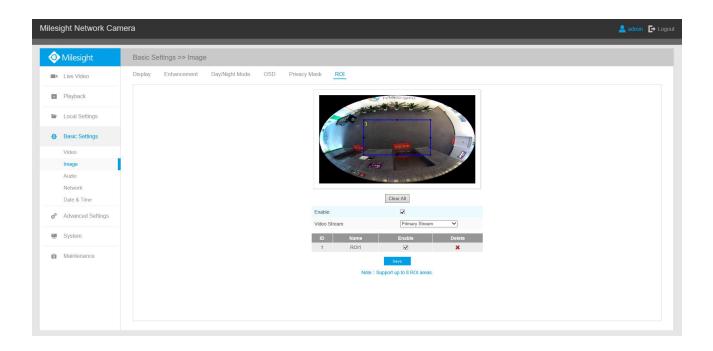


Table 4-4-7 Description of the buttons

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

Note:

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

B. You can set the ROI area separately for different channels base on display mode in live view.

4.4.3 Audio

This audio function allows you to hear the sound from the camera or transmit your sound to the camera side. A two-way communication is also possible to be achieved with this feature. Alarm can be triggered when the audio input is above a certain alarm level you set, and configured audio can be played when an alarm occurs.

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Output Volume:



Table 4-4-8 Description of the buttons

50

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, AAC LC, G722 and G726 are available; Sample Rate: There are 8KHz/16KHz two options; Input Gain: Input audio gain level, 0-100.
Audio Output	Auto Gain Control: Improve the quality of audio; Output Volume: Adjust volume of output.

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





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

Note:

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

4.4.4 Network

TCP/IP

O Get IPv4 address automatically	
Use fixed IPv4 address	
IP Address:	192.168.8.120 Test
IPv4 Subnet Mask:	255.255.252.0
IPv4 Default Gateway:	192.168.8.2
Preferred DNS Server:	8.8.8.8
IPv6 Mode:	Manual 🗸
IPv6 Address:	
IPv6 Prefix:	
IPv6 Default Gateway:	

Table 4-4-9 Description c	of the buttons
---------------------------	----------------

Parameters	Function Introduction
Get IPv4 Address Automatically	Get an IP address from the DHCP server automatically.
Use fixed IP address	 IPv4 Address: An address that used to identify a network camera on the network IPv4 Subnet Mask: It is used to identify the subnet where the network camera is located IPv4 Default Gateway: 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: IPv6 Address used to identify a network camera on the network
IPv6 Prefix: Define the prefix length of IPv6 address
IPv6 Default Gateway: The default router IPv6 address

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

HTTP

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

Table 4-4-10 Description of the buttons

Parameters	Function Introduction	
HTTP Enable	Start or stop using HTTP.	
HTTP Port	Web GUI login port, the default is 80, the same with ONVIF port.	
HTTPS Enable	Start or stop using HTTPS.	
HTTPS Port	Web GUI login port via HTTPS. the default is 443.	
HTTP Settings	Upload and set the SSL certificate .	

HTTP URL are as below:

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

RTSP

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

Table 4-4-11 Description of the buttons

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

RTSP URL for Bundle-Stream Mode are as below:

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

RTSP URL for Multi-Channel Mode are as below:

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

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

Note:

- 1) Get the format of RTSP URL by clicking "^① "on the right side of RTSP Port.
- 2) DSCP refers to the Differentiated Service Code Point; and the DSCP value is used in the IP header to indicate the priority of the data.
- 3) A reboot is required for the settings to take effect.

UPnP

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

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

Table 4-4-12 Description of the buttons

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

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

DDNS

📀 Milesight

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.

nable DDNS:	
rovider:	ddns.milesight.com
xternal HTTP Port :	80
xternal RTSP Port:	554
xternal Playback Port:	555
DNS 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 4-4-13 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
1	
Sav	e Test

Table 4-4-14	Description of the buttons
--------------	----------------------------

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

FTP

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

Server Address:	192.168.9.51	
Server Port:	21	
User Name:	admin	
Password:	*****	
FTP over SSL/TLS(FTPS):		
FTP Storage Settings		
Storage Path:	Parent Directory	~
Parent Directory:	Date	~
Alarm Action File Name:	Default(YYYY-MM-DD)	~
Timing Snapshot File Name:	Default(YYYY-MM-DD)	~
Pre-record	0 second	~



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



Timing Snapshot File	Default(YYYY-MM-DD) /MM-DD-YYYY/ DD-MM-YYYY/ Add prefix/ Overwrite with
Name	the base file name are available.

Note:

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

VLAN

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

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

Note:

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

ΡΡΡοΕ

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

Enable PPPoE:	
Dynamic IP:	0.0.0.0
User Name:	
Password:	
Confirm Password:	
	Save

Note:

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

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

SNMP

Milesight

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

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)

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

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

Note:

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

802.1x

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

Enable 802.1x:		
Protocol:	EAP-MD5	
Eapol Version:	1 🗸	
User Name:		
Password:		
Confirm Password:		
	Save	

Bonjour

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

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

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

RTMP

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



Enable RTMP:	
Stream Type:	Secondary Stream
Server Address:	rtmp://a.rtmp.youtube.com/

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

Note:

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

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

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

Current System Time	
Date:	27/04/2020
Time:	14:40:49
Set the System Time	
Time Zone:	(UTC+08:00) Singapore
Daylight Saving Time:	Automatic
NTP server	
Server Address:	192.168.14.101
NTP Sync:	Interval: 1 day
⊖ Manual	
Time:	27/04/2020 14:40:28
O Synchronize with computer tin	ne
Date:	27/04/2020
Time:	14:40:50

4.4.5 Date&Time

Current System Time

Current date&time of the system

Set the System Time

Table 4-4-17 Description of the buttons

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

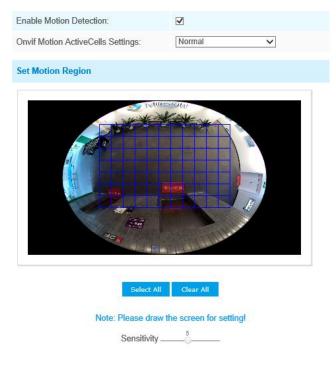
4.5 Advanced Settings

4.5.1 Alarm

Motion Detection

Step1: Check the checkbox to enable the motion detection;

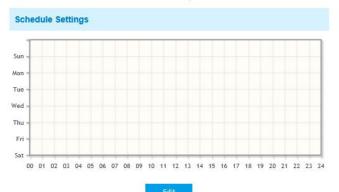
Note: Currently, the motion detection is only supported in 10, 1P, and 4R of bundle-stream mode. Step2: Set motion region;



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

Table 4-5-2 Description of the buttons

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

Save Into Storage	Save alarm recording files into SD Card or NAS
Upload Via FTP	Upload the recording files via FTP.
Upload Via SMTP	Upload the files via SMTP.
External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration.
Play Audio	If the camera equips with Speaker, you can enable the action after configuring the audio speaker.
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.
HTTP Notification	Support to pop up the alarm news to specified HTTP URL. Note: Three HTTP notifications at most can be added to the same event.

NOTE:

1) The HTTP notification function is just one way for camera to send messages to VMS Software.

And it's the VMS that defines what the messages mean and decides what to do after receiving this kind of messages. So, we can use the **HTTP Notification** function of our cameras only if the VMS supports this kind of message format.

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

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

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

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

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

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

HTTP Password: ms1234 (the password of your camera)

HTTP Notification URL:

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

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

8601 is the port for Motion signal in Digifort.

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



Close all		General						
Camera		General camera data						
General								
Lens		Camera name Camera descri	noiten					
Motion detection		annie sdf						
Audio		Manufacturer						
Image filters		ONVIF Open Network Video Ir	terface Forum					
Streaming		Camera model	Firmware				Channel	
Media profiles		ONVEF Conformant Device	 1.02 or great 	er		•	1	۲
Recording		Camera address	Port (80)		User		Password	
Jve view	-11	192.168.8.173	80	۲	admin		•••••	2
Recording		Camera shortcut			Connection timeout	(Milliseconds	:)	
Settings					30000			۲
Archiving		Recording directory E:\2015\dsf\						8
Rights	- 1							12:
Users		Activate camera						
PTZ								
Settings								
Presets								
PTZ Patrol								
Auxiliary								
Joystick								
Menu control								
1/0	-						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 detection settings		
O Use software motion detection		
Ose motion detection by external notification]	

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

🥃 Objects	Servers
🔎 Search	
E-Sa Cameras	mera)

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

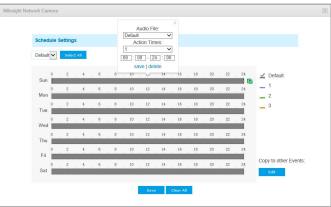
Record Video Sections:	5 seconds
Record video Sections.	lo seconds
Snapshot:	3
Snapshot Interval:	1 second V
external Output Action Time:	30 seconds
udio Action Settings:	Edit
lay Audio Interval:	Auto

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

Table 4-5-3 Description of the buttons

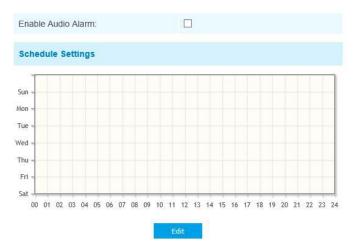
Note:

You can customize the schedule of Audio Action.



Audio Alarm

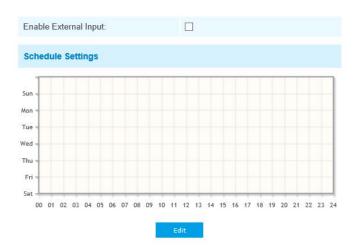
Enable the Audio before using Audio Alarm function.



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

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 V
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:	
Alarm Setting	
Record Video Sections:	5 seconds
Snapshot:	3 🗸
Snapshot Interval:	1 second V
External Output Action Time:	30 seconds
Audio Action Settings:	Edit
Audio Action Octungs.	

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 Storage:	File Format: Record
External Output:	(Please configure the External Output Action Time.)
Play Audio:	(Please enable the Audio Speaker.)
Alarm Setting	
Record Video Sections:	5 seconds 🗸
Snapshot:	3
Snapshot Interval:	1 second V
External Output Action Time:	30 seconds
Audio Action Settings:	Edit
Play Audio Interval:	Auto
	Save

Parameters	Function Introduction
Alarm Type	Network Lost, Tampering and IP Address Conflicted are available Check the checkbox to enable the alarm type you selected
Alarm Action	 Save Into SD Card: Save alarm recording files into SD Card External Output: If the camera equips with External Output, you can enable the action after configuring the trigger duration Play Audio: If the camera equips with Speaker, you can enable the action after configuring the audio speaker
Alarm Setting	 Record Video Sections: Six different periods are available(5, 10, 15, 20, 25, 30 sec) Snapshot: The number of snapshot, 1~5 Snapshot Interval: This cannot be edited unless you choose more than 1 to Snapshot External Output Action Time: Length of time an alarm lasts, this cannot be edited unless when you enable the External Output on the Alarm Action firstly Audio Action Settings: Set the audio schedule to trigger different audio files and action times in different time, which is corresponded to alarm action Play Audio Interval: Auto/ 10 seconds/ 30 seconds/ 1 minute/ 5 minutes/ 10 minutes are available

Table 4-5-4 Description of the buttons

External Output



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:





Table 4-5-5 Description of the buttons

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

NAS

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

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

NAS Settings	
Server Address:	
File Path:	
Mounting Type:	NFS Y
_	Add

Table 4-5-6	Description	of the	buttons
	Description	or the	buttons

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

Note:

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

Record Settings

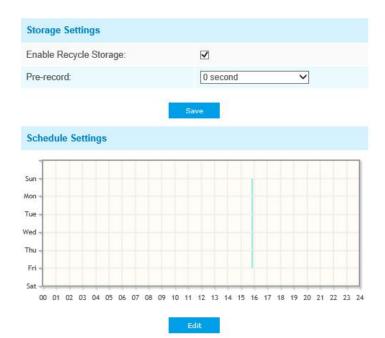


Table 4-5-7 Description of the buttons

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

Note:

SD Card or NAS are available.

Snapshot Settings

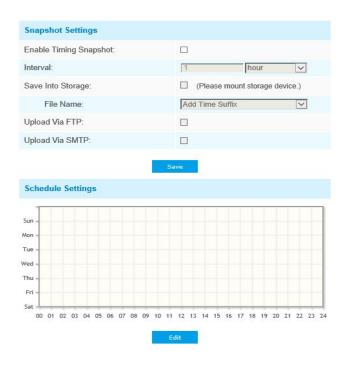


Table 4-5-8	Description of the buttons
-------------	----------------------------

Parameters	Function Introduction
Snapshot Settings	 Enable Timing Snapshot: Check the checkbox to enable the Timing Snapshot function Interval: Set the snapshots interval, input the number and choose the unit(millisecond, second, minute, hour, day) Save Into Storage: Save the snapshots into SD card or NAS, and choose the file name to add time suffix or overwrite the base file name. Save Into NAS: Save the snapshots into NAS, and choose the file name to add 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 name "Snapshot" to place the snapshot.
Schedule Settings	Click the Edit button to edit record schedule

Explorer

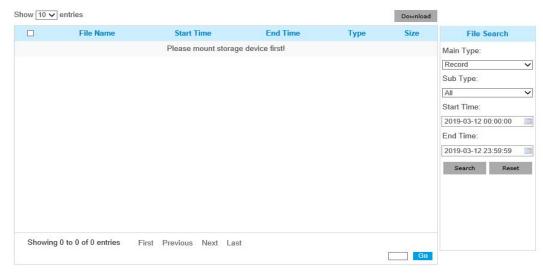
Files will be seen on this page when they are configured to save into SD card or NAS. You can set time schedule every day for recording videos and save video files to your desired



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.).



4.5.3 Security

User

Manage Privilege			
Allow Anonymous Viewing:			
Security Question			
Security Question:		Edit	
Account Management			
Add Edit Delete			
ID L	Jser Name		Privilege
1	admin		Administrator
Admin Password:			
User Level:		Operator	~
User Name:			
Password:			
Confirm:			

User Privilege	
AII	
☑ Live Video	☑ Playback
☑ Local Settings	□ Video Settings
□ Image Settings	□ Audio Settings
Network Settings	☑ RTSP Access
Data & Time	Event Settings
☑ Storage Settings	□ Storage Format
Security Settings	□ SIP Settings
☑ Logs	☑ System
□ Maintenance	☑ PTZ Control
□ Fisheye Settings	
Note: You can o	nly add 20 users



Parameters	Function Introduction		
Manage Privilege	Allow anonymous viewing: Check the checkbox to enable visit from whom doesn't have account of the device		
Security Question	Click "Edit" button to set three security questions for your camera. In case that you forget the password, you can click "Forget Password" button on login page to reset the password by answering three security questions correctly.		
	There are twelve default questions below, you can also customize the security questions.		

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	What's your father's name? What's your mother's name? What's your mobile number? What's your first pet's name? What's your favorite book? What's your favorite game? What's your favorite food? What's your favorite color? What's your best friend's name? What's your favorite color? What's your favorite color? What's your best friend's name? Where did you go on your first trip? Customized Question		
	k "Add" button, it will display Account Management page. You can add an ount to the camera by entering Admin Password, User Level, User Name, New		
	Password, Confirm, and edit user privilege by clicking $\ \square$. The added account will be displayed in the account list.		
	Admin Password: You can add an account only after you enter the correct admin		
	password.		
Account Management	 User Level: Set the privilege for the account. User Name: Input user name for creating an account. Password: Input password for the account. 		
	Confirm: Confirm the password. You can edit and delete the account in the account list under the admin account.		
	For the default admin account, you can only change the password, and it cannot		
	be deleted.		

Note:

1) You can only add 20 users.

2) 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

Maximum Number of Concurrent Streaming:	20 💙
Sucanning.	
IP Access List	
Rule:	Single V
P Address:	
	Add
Enable Access List Filtering:	
Filter Type:	Allow Deny

Table 4-5-10 Description of the buttons

Parameters	Function Introduction
General Settings	Maximum number of concurrent streaming: Select the maximum number of concurrent streaming. Options include Number Limit, 1~20.
IP access list	Rule: Single, Network and Range are available; IP address: Input the address to get the access to the device.
Enable access list filtering	Able to access or restrict access for some IP address.
Filter type	Access or restrict access

Security Service

SSH Settings	
Enable SSH:	
SSH Port:	6022
	ive

Table 4-5-11 Description of the buttons

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

Watermark

Enable Watermark:	
Enable Praternant:	
Watermark String:	IP CAMERA

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

4.5.4 SIP

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

Method 1: IP Direct mode

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

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

Method2: Account registration mode

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

SIP Settings

	Unregistered
Enable:	
Register Mode:	Enable
User ID:	500
User Name:	sipclient
Password:	********
Server Address:	192.168.5.101
Server Port:	5060
Connection Protocol:	UDP
Video Stream:	Secondary Stream 🗸
Max Call Duration:	1800 S
There shall be stread with	0 means no limitation.

Note:SIP supports Direct IP call.

Parameters	Function Introduction	
Unregistered/ Registered	SIP registration status. Display "Unregistered" or "Registered"	
Enable	Start or stop using SIP	
Register Mode	Choose to use Enable mode or Disable mode. Enable mode means to use SIP with register account. Disable mode refers to use SIP without register account, just use the IP address to call.	
User ID	SIP ID	
User Name	SIP account name	
Password	SIP account password	
Server Address	Sever IP address	
Server Port	Sever port	
Connection Protocol	UDP/TCP	
Video Stream	Choose the video stream	
Max Call Duration	The max call duration when use SIP	

Table 4-5-12 Description of the buttons

Note: SIP supports Directly IP call.

Alarm Phone List

www.milesight.com



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

Table 4-5-13 Description of the buttons

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

White List

Phone Number 🗸	
Add	
Save	
	Add

Table 4-5-14 Description of the buttons

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

4.5.5 VCA

Smart Event uses Milesight Video Content Analysis technology. This technical capability is used in a wide range of domains including entertainment, health-care, retail, automotive, transport, home

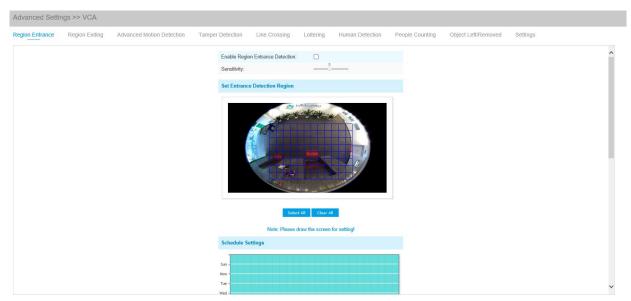


automation, safety and security. Milesight VCA provides advanced, accurate smart video analysis for Milesight network cameras. It enhances the performance of network cameras through 10 detection modes which are divided into basic function and advanced function, enabling a comprehensive surveillance system and quicker response of cameras to different monitoring scenes.

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

Region Entrance

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

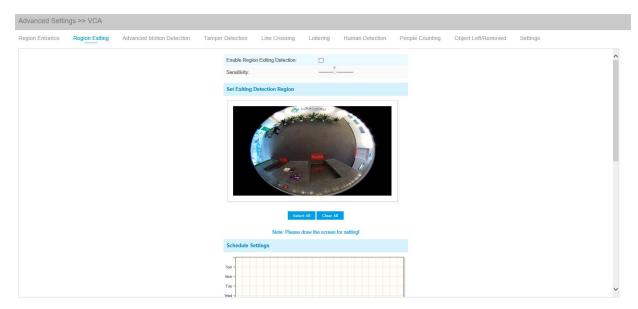


Step1: Set detecting sensitivity;

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

Region Exiting

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

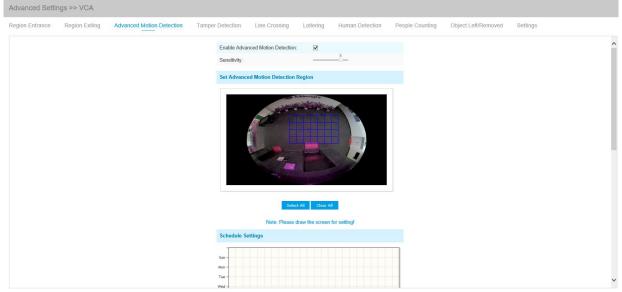


Step1: Set detecting sensitivity;

- Step2: Set exiting detection region;
- Step3: Set detection schedule;
- Step4: Set alarm action;
- Step5: Set alarm settings.

Advanced Motion Detection

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



Step1: Set detecting sensitivity;

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

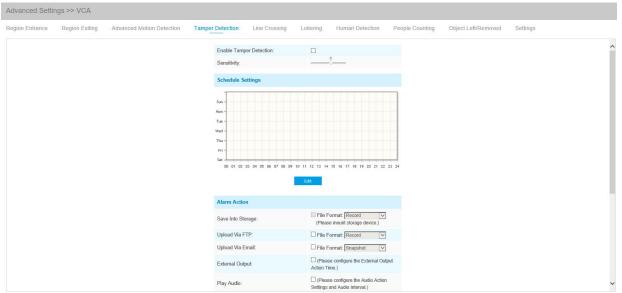


Note:

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

Tamper Detection

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



Step1: Set detecting sensitivity;

Step2: Set detection schedule;

Step3: Set alarm action;

Step4: Set alarm settings.

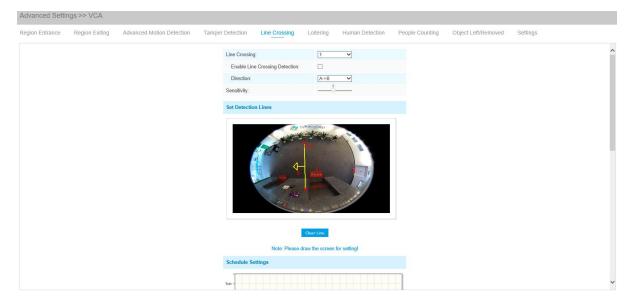
Note:

The algorithm supports defocus detection in Tamper Detection function.

Line Crossing

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





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

	122
Line Crossing:	4
Enable Line Crossing Detection:	
Direction:	A->B 🗸

Step2: Enable Line Crossing Detection and define its direction;

Line Crossing:	1 •
Enable Line Crossing Detection:	
Direction:	A<->B
Sensitivity:	A->B B->A A<>B

Step3: Set detecting sensitivity; Step4: Draw detection lines; Step5: Set detection schedule; Step6: Set alarm action; Step7: Set alarm settings.

Note:

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



Loitering

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



Step1: Set minimum loitering time;

Step2: Set loitering detection region;

Step3: Set detection schedule;

Step4: Set alarm action;

Step5: Set alarm settings.

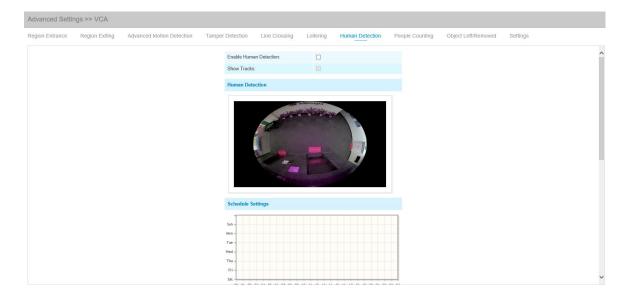
Note:

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

Human Detection

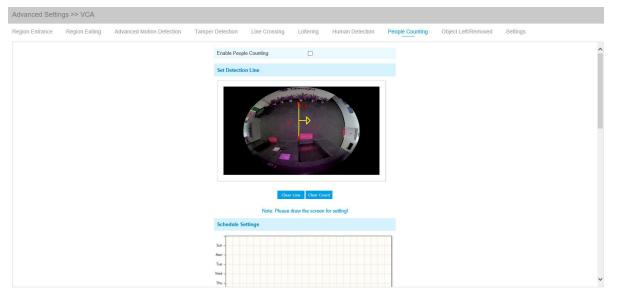
Human detection is used for figuring out whether an object is a human or not. Once human detection is enabled, when there is an object appearing in the detecting area, an ID will show on the frame. If the object is a person, it will mark as "person". When the Show Tracks is enabled, the tracks of the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





People Counting

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



Step1: Set detection line;

Step2: Set detection schedule;

Step3: Set counting OSD;

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

The OSD of the people counting support automatic zeroing;

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

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

Log Settings	
Logs:	Edit
Enable Auto Export Logs:	\mathbf{V}
Day:	Everyday 🗸
Time:	00:00:00
Export Time Range::	All 🗸
Export to:	FTP SMTP Storage

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

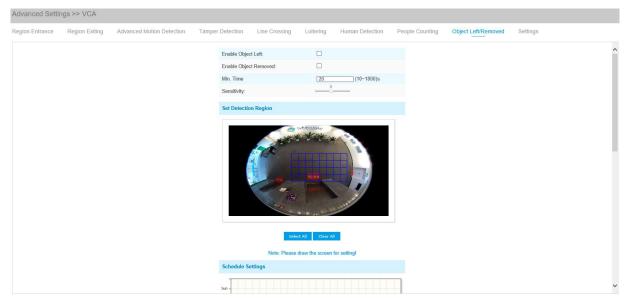
Alarm Trigger		
Enable Alarm		
	🗆 In: 🛛 9999	
	Out: 9999	
Thresholds:	Capacity: 9999	
	Sum: 9999	

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

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

Object Left/Removed(Optional)

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



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

- Step2: Set minimum time;
- Step3: Set detecting sensitivity;
- Step4: Set detection region;
- Step5: Set detection schedule;
- Step6: Set alarm action;
- Step7: Set alarm settings.

Note:

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

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

Settings

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



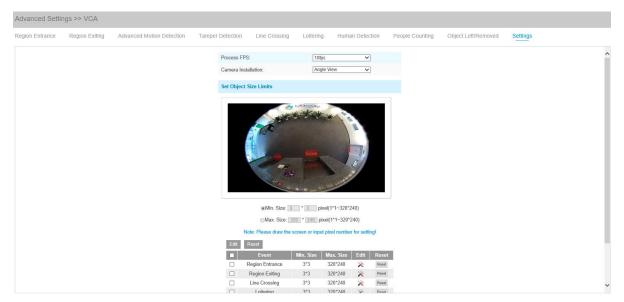


Table 4-5-15Description of the buttons

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

Note:

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

Region Entrance Region Exiting Advanced Molion Delection Tamper Delection Line Grossing Line Iting Human Delection People Counting Object Left/Removed Settings	dvanced Setti	ings >> VCA										
Max. Stre: [20] * [20] pixel 1*1-320*240) Note: Please draw the screen or input pixel number for setting! Edit Reset Region Entrance 3'3 Region Entrance 3'3 320*240 Reset Line Crossing 3'3 Lottering 3'3 320*240 Reset Lottering 3'3 320*240 Reset People Counting 3'3 320*240 Reset	egion Entrance	Region Exiting	Advanced Motion Detection	Tamper Detection	Line Crossing	Loitering	J Huma	an Detection	People Counting	Object Left/Removed	Settings	
Max. Size Size Size Fall Reast East Rest Edit Rest Rest Edit Edit Rest Rest Edit Edit 3'3 320'240 Rest Edit Edit Size Size Edit Rest Edit Edit 3'3 320'240 Rest Editering 3'3 320'240 Rest Lobering 3'3 320'240 Rest Human Defection 3'3 320'240 Rest												
Edit Reset Image: Event Min. Size Max. Size Edit Reset Image: Region Entrance 3'3 320'240 Reset Reset Image: Region Entrance 3'3 320'240 Reset Reset Image: Line Crossing 3'3 320'240 Reset Reset Image: Line Crossing 3'3 320'240 Reset Reset Image: Line Crossing 3'3 320'240 Reset Reset Human Detection 3'3 320'240 Reset Reset												
Event Min. Size Max. Size Edit Readt Region Entrance 3'3 320'240 Readt Line Crossing 3'3 320'240 Readt Line Crossing 3'3 320'240 Readt Line Crossing 3'3 320'240 Readt Human Detection 3'3 320'240 Readt Human Detection 3'3 320'240 Readt				N	te: Please draw the s	creen or input p	oixel number	for setting!				
Region Entrance 3'3 320'240 X Reset Region Exiting 3'3 320'240 X Reset Lictering 3'3 320'240 X Reset Human Detection 3'3 320'240 X Reset People Counting 3'3 320'240 X Reset				Edit	Reset							
Region Exiting 3*3 320*240 № Ремен Line Crossing 3*3 320*240 № Ремен Line Crossing 3*3 320*240 № Ремен Human Detection 3*3 320*240 № Ремен People Counting 3*3 320*240 № Ремен					Event	Min. Size	Max. Size	Edit Reset				
□ Line Crossing 3'3 320'240 ≫ Filessit □ Lottering 3'3 320'240 ≫ Filessit □ Human Detection 3'3 320'240 ≫ Filessit □ People Counting 3'3 320'240 ≫ Filessit					legion Entrance	3*3	320*240	🔀 Reset	-			
Loitering 3*3 320*240 ➤ Reset Human Detection 3*3 320*240 ➤ Reset People Counting 3*3 320*240 ➤ Reset					Region Exiting	3*3	320°240	Reset				
□ Human Detection 3*3 320*240 🔀 Reset					Line Crossing	3*3	320*240	🔀 Reset				
People Counting 3*3 320*240 🔆 Read					Loitering	3*3	320*240	Reset				
					uman Detection	3*3	320*240	X Reset				
□ Object Left/Removed 3*3 320*240 🔀 Reset												
				🗆 Ob	ect Left/Removed	3*3	320*240	🔀 Reset				

4.5.6 Heat Map

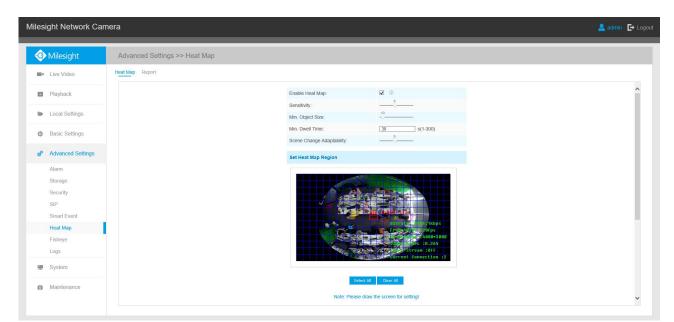
Heat Map function can analyze customers movement to reveal insights for better business management with the intuitive and accurate statistical analysis results in time or space pattern as needed.

Note:

(1) Currently Heat Map is only supported in the original view of 360° Panoramic Fisheye Network Camera and the dewarping view of 180° Panoramic Mini Bullet Network Camera.

- (2) Please upgrade the camera to V43.7.0.72-r7 or above to use Heat Map function.
- (3) Only allowed to view reports within 7 days without a SD card or NAS.

Settings

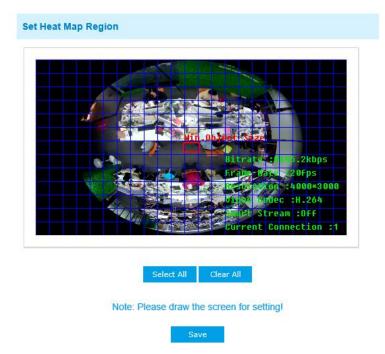


Step 1: After log in the web, go to "Advanced Settings" → "Heat Map". Check the checkbox "Enable Heat Map", then set the Heat Map settings as shown below.

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

Table 4-5-16 Description of the buttons

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



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



iun -																							
on -																							
ue -																							
ed -																							
hu																							
Fri -																							
iat 00 0	1 02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2

		Time Schedule		
✓	Period1	Period2	Period3	
ZSunday	00 🗸 00 🗸 24 🗸 00 🗸	00 - 00 - 00 - 00 - 00 - 00	00 - 00 - 00 - 00 - 00 - 00	Copy to Other Days
ZMonday	00 - 24 - 24 - 00 -	00 - 00 - 00 - 00 - 00	00 - 00 - 00 - 00 - 00	Copy to Other Days
Tuesday	00 🗸 00 🗸 24 🗸 00 🗸	00 - 00 - 00 - 00 - 00 - 00	00 - 00 - 00 - 00 - 00	Copy to Other Days
Wednesday	00 - 24 : 00 - 24 - 24 - 24 - 24 - 24 - 24 - 24 -	00 - 00 - 00 - 00 - 00 - 00	00 - 00 - 00 - 00 - 00	Copy to Other Days
Thursday	00 🗸 : 00 🗸 24 🗸 : 00 🗸	00 - 00 - 00 - 00 - 00 - 00	00 - 00 - 00 - 00 - 00	Copy to Other Days
Z Friday	00 - 24 - 24 - 00 -	00 - 00 - 00 - 00 - 00	00 - 00 - 00 - 00 - 00	Copy to Other Days
Saturday	00 - 00 - 24 - 00 -	00 - 00 - 00 - 00 -	00 - 00 - 00 - 00 -	Copy to Other Days

Report

The results will be displayed on "Report" interface.

Heat Map Report Space Heat Map Heat Map Report See Space Heat Map Report Type: Daily Report Sature Zote: Comparison of the second of the
Main Type: Space Heat Map Report Type: Daily Report Start Time: 2019-12-03 00:00:00
Main Type: Space Heat Map Report Type: Daily Report Start Time: 2019-12-03 00:00:00
Report Type: Daily Report Start Time: 2019-12-03 00:00:00
2019-12-03 00:00:00
Search
Report Errort
0 thr.7min.8sec.

Step 1: Select Main Heat Map Type.

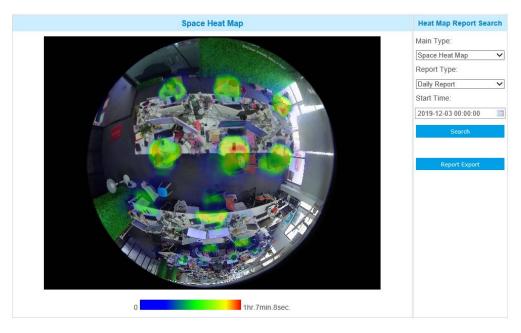
[Space Heat Map]: Space Heat Map will be presented as a picture with different color. Different colors represent different heat values. Red represents the highest and blue represents the lowest.

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

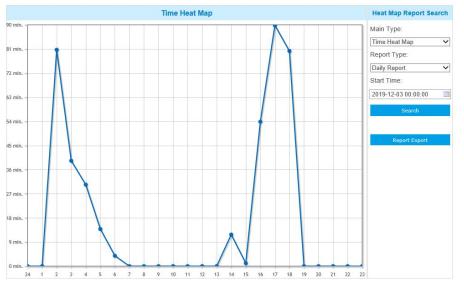
Step 2: Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report.

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





Space Heat Map



Time Heat Map

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

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

4.5.7 Fisheye

PTZ

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

Table 4-5-17 Description of the buttons

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

General

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

Table 4-5-18 Description of the buttons

Parameters	Function Introduction

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

Note:

We recommend Bundle-Stream mode with Milesight NVR.

4.5.8 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	2	-	192.168.8.50	stop one session.	Main Type:
017-09-04 13:29:18	Operation	RTSP Session Start	=:	2 7 5	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	14	1925	192.168.8.50	start one session.	Non-state
017-09-04 13:28:53	Operation	Login Remotely	-	admin	192.168.8.50		<u></u>
017-09-04 05:50:00	Information	IR-CUT On		-	-	-	Start Time: 2017-09-04 00:00:00
017-09-03 18:35:25	Information	IR-CUT Off	-	-	-	-	2017-09-04 00:00:00
017-09-03 05:43:58	Information	IR-CUT On	73	1771	5		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	120	¥	-	Search
017-09-01 18:43:37	Information	IR-CUT Off	-		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		(m)	192.168.8.50	start one session.	Save Period:
017-09-01 16:55:17	Operation	RTSP Session Stop	-	-	192.168.8.50	stop one session.	Permanent
		Motion Dotoction					

Table 4-5-19 Description of the buttons

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

Sub Type	On the premise that main type has been selected, select the sub type to narrow the range of logs.
Start Time	The time log starts
End Time	The time log ends
Log Export	Export the logs
Save Period	Set the period of log saving. There are eight options to choose: Permanent and 30/60/120/180/240/300/360 Days.
Go	Input the number of logs' page.

4.6 System

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

Network Camera
MS-C9674-PB
V1.0
43.7.0.74
1C:C3:16:22:0D:8D
SJ001EQ370N2
1
1
7 days 9 hours 55 minutes
Please scan this QR code on App to get a remote view.

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

Table 4-6-1 Description of the parameters

4.7 Maintenance

< Milesight

4.7.1 System Maintenance

System Upgrade	
Software Version:	43.7.0.74
Local Upgrade:	Upgrade Reset after Upgrading
Online Upgrade:	Check
Note: Do not disconnect the pow	er of the device during the upgrade.
Maintenance	
Reset Keep the IP Configuration Keep the User Information	Reset
Export Config File:	Export
Config File:	Browse
Import Config File:	Import
Reboot	
Reboot the Device:	Reboot

Table 4-7-1 Description of the buttons

Parameters	Function Introduction
	Software Version: The software version of the camera.
	Local Upgrade: Click the "Browse" button and select the upgrading file, then click
	the "Upgrade" button to upgrade. After the system reboots successfully, the
System Upgrade	update is done.
	You can check "Reset after Upgrading" to reset the camera after upgrading it.
	Online Upgrade: Click the "Check" button to check the current latest firmware
	version on our website, and then click "OK" to upgrade to this version.



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

> Milesight Better Inside, More in Sight