



# Network Camera User Manual

# **NDAA Series**

Version: V9.3 Date: 2025-01-17

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# Chapter 1. Introduction

# 1.1 Copyright Statement

This manual may not be reproduced in any form or by any means to create any derivative such as translation, transformation, or adaptation without the prior written permission of Milesight IoT Co., Ltd (Hereinafter referred to as Milesight).

*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 <u>http://www.milesight.com</u>

# 1.2 Safety Instruction

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

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

- 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/AC 12V or PoE
- Please make sure the plug is firmly inserted into the power socket
- When the product is installed on a wall or ceiling, the device should be firmly fixed
- If the product does not work properly, please contact your dealer. Never attempt to disassemble the camera by yourself

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

- 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, 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

# 1.3 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.

# 1.4 Revision History

Version	Revision Content	Release Date
V9.0	First release	June 2022
V9.1	<ol> <li>Add the VPN function</li> <li>Add Wiper function to speed dome camera</li> </ol>	April 2023
V9.2	<ol> <li>Add Intrusion Detection function</li> <li>Add Object Counting function</li> </ol>	April 2024
V9.3	<ol> <li>Update Tamper Detection</li> <li>Update Face Detection</li> <li>Add LLDP protocol</li> <li>Update P2P protocol</li> </ol>	January 2025

#### Table 1.

# Chapter 2. Product Description

# 2.1 Product Overview

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

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

# 2.2 Key Features

## System

- Built-in WEB server, support IE/ Firefox/ Chrome/ Safari browser
- Based on Linux OS with high reliability
- Support Plugin-Free mode
- · Support activation and set-up of the security questions for cameras
- Support ONVIF Profile G & M & S & T
- Three-privilege levels of users for flexible management
- Micro SD/SDHC/SDXC card local storage support, expand the edge storage

## Image

- 0.001Lux Ultra Low Light
- Smart IR II technology
- 4K Video Viewing Experience
- P-Iris Control
- Support HLC/BLC
- ICR filter with auto switch, true day/night

Corridor Mode

## Video

- H.265/ H.264/ MJPEG video compression capability
- 70% ~80% bandwidth saved by 10-level adjustable H.265+
- Support Primary Stream/ Secondary Stream/ Tertiary Stream
- Support Smart Stream
- Real-time video electronic amplification

## Audio

- G.711/AAC audio compression capability
- Support Audio I/O

### Network

- UPnP protocol for the easy management of camera
- Support Milesight DDNS
- FTP upload, SMTP upload, SD card record and SIP phone
- Support VPN

## Advanced Function

- Motion Detection, Privacy Masking, Network Fault Detection and ROI
- Support Al Video Content Analysis
- Support People Counting function
- Support Face Detection function
- Support Heat Map function

## Hardware

- Support PoE for power supply
- Support Alarm I/O
- Built-in Microphone
- IK10-rated vandal-proof metal cover, and IP67-rated weather-proof housing

## PTZ

- Up to 42X for Speed Dome, 23X Optical Zoom for PTZ Bullet Plus and 23X for PTZ Dome
- 360° continuous pan and -5°~ 90° (Auto Flip) tilt for Speed Dome
- 360° continuous pan and -45°~30° tilt for PTZ Bullet
- 360° continuous pan and -5°~90° (Auto Flip) tilt for PTZ Dome
- 300 Preset Points, 8 Patrols and 4 Patterns

• 3D Positioning, PTZ Motion, PTZ Limit, Scheduled Tasks and Auto Home function

• White LED for PTZ Bullet

# 2.3 System Requirements

Operating System: Windows XP/7/8/10/11/Server 2000/Server 2008

CPU: 1.66GHz or higher

RAM: 1G or higher

Graphic memory: 128MB or more

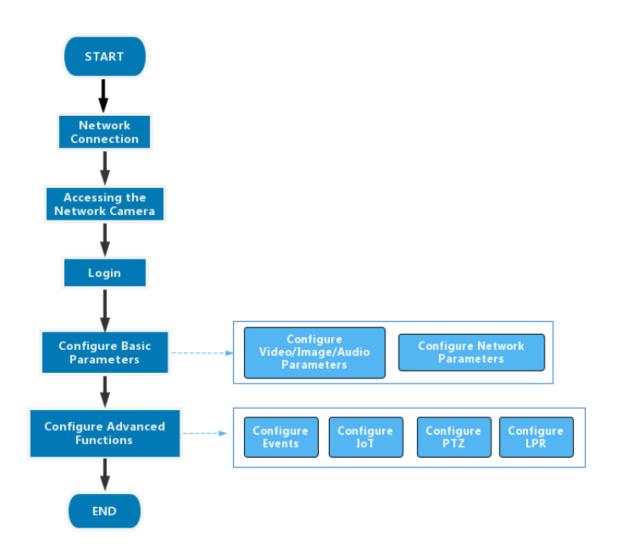
Internet protocol: TCP/IP (IPv4/IPv6)

Web Browsers: Support Micro Edge/ Google Chrome/ Safari/ Mozilla Firefox Browser

# **Chapter 3. Configuration Flow**

The configuration flow of cameras is shown in the following figure.

**Note:** The configuration must be based on the actual situation of different models.



More configuration details is shown in the following table.

Table 2. Description of flow

Configuration	Description	Reference
Network Connection	Connect the network camera. You can set the camera over the LAN or dynamic IP connection.	4.1 Setting the Camera over the LAN (page 12)
Accessing the Network Camera	Accessing from IP address, web browser and Milesight back-end software are available.	5.1 Assigning An IP Address (page 14)
Configure Basic Parameters	After login the camera, you can adjust the video/image/audio/network parameters as needed.	8.1 Media (page 43) 8.2 Network (page 62)
Configure Advanced Functions	Configure the advanced functions, such as VCA and people counting.	<u>8.4 Event (page 92)</u>

# Chapter 4. Network Connection

# 4.1 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.

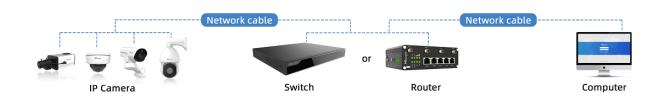
## 4.1.1 Connect the Camera to the PC Directly

In this method, only the computer connected to the camera 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.



## 4.1.2 Connect via a Switch or a Router

Refer to the following figure to set network camera over the LAN via the switch or router.



# 4.2 Dynamic IP Connection

Step1: Connect the network camera to a router;

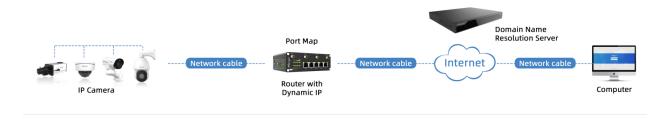
Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;

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.



# Chapter 5. Accessing the Network Camera

# 5.1 Assigning An IP Address

The Network Camera must be assigned an IP address to be accessible. The default IP address of Milesight network cameras 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.

## 5.1.1 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 camera in the same network will be displayed. Details are shown as the figure below;

10         Network Camera         Active         1C:C3:16:2A:07/33         19:2168.69:1         0         255:255:0         19:2168.69:1         MS-C2967-K23R         202:2-03-15 14         45.7.0.80-LP         0           11         Network Camera         Active         1C:C3:16:20:10:43         19:2168.69:1         MS-C2967-K23R         202:2-03-03 13         43.7.0.79-LP         0           12         Network Camera         Active         1C:C3:16:20:40:90:2         19:2168.69:1         MS-C2963-LPB         202:2-03-03 13         43.7.0.79-LP         0           13         Network Camera         Active         1C:C3:16:20:40:0:2         19:2168.69:1         MS-C2963-LPB         202:2-03-01 13         43.7.0.79-r7         0           14         Network Camera         Active         1C:C3:16:24:0:0:1         19:2168.69:1         MS-C2964-LFB         202:2-03-11 13         45.7.0.79-r7         0           15         Network Camera         Active         1C:C3:16:24:0:0:1         19:2168.69:1         MS-C387-K23PC         202:-0:3-11 13         45.7.0.79-r30         0           15         Network Camera         Active         1C:C3:16:24:0:6:9         19:2168.69:1         MS-C387-K23PC         202:-0:3-11 21         45.7.1.79         0           16	1	No.	Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
11       Network Camera       Active       1C.C3.16.20.10.43       192.168.691       80       255.255.240.0       192.168.691       MS-C2263-LPB       2022-03-03 13       43.70.79-LP       Image: Comparison of the comp	1	9	Network Camera	Active	1C:C3:16:27:6B:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373-PB	2022-03-11 20:	41.7.0.79	Θ
12       Network Camera       Active       1C:C3:16:2A:98:26       192:168:691       MS-C8266-X4G       202:-03-15 11       45.8.0.1-Alo       Image: Comparison of the c	-	10	Network Camera	Active	1C:C3:16:2A:07:33	192.168.69.60	80	255.255.255.0	192.168.69.1	MS-C2967-X23R	2022-03-15 14:	45.7.0.80-LP	0
13       Network Camera       Active       1C:C3:16:24:09:D2       192:168:691       MS-C2964-FPB       2022-01-09 17       40.70.79-r7       Image: Comparison of the compariso		11	Network Camera	Active	1C:C3:16:20:10:43	192.168.69.61	80	255.255.240.0	192.168.69.1	MS-C2963-LPB	2022-03-03 13:	43.7.0.79-LP	Θ
14       Network Camera       Active       1C:C3:16:24:60:AA       192:168:699       80       255:255:50       192:168:691       MS-C5375-EPB       2022-03-14 18       41.70.76-r3       Image: Circ3:16:24:06:91       192:168:691       MS-C5375-EPB       2022-03-14 18       41.70.76-r3       Image: Circ3:16:24:06:91       192:168:691       MS-C5375-EPB       2022-03-15 09       45.70.79-r30       Image: Circ3:16:24:06:91       192:168:691       MS-C5367-X23PC       2022-03-15 09       45.70.79-r30       Image: Circ3:16:24:06:91       192:168:691       MS-C5367-X23PC       2022-03-10 20       45.70.79-r30       Image: Circ3:16:24:06:97       192:168:691       MS-C2975-PB       2022-03-10 20       40.70.079-r7       Image: Circ3:16:24:60:F7       192:168:691       MS-C2975-PB       2022-03-10 20       40.70.079-r7       Image: Circ3:16:28:5ED2       192:168:691       MS-C2975-PB       2022-03-11 10       45.70.79-rP.       Image: Circ3:16:28:5ED2       192:168:691       MS-C2975-PB       202:03-11 10       45.70.79-rP.       Image: Circ3:16:28:5ED2		12	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266-X4G	2022-03-15 11:	45.8.0.1-AIo	Θ
15       Network Camera       Active       1CC3.16/2A/06691       192.168.69.9       80       255.255.50       192.168.69.1       Ms-C5367-X23PC       2022-03-15 09       45.7.0.79-r30       Image: Comparison of the compa		13	Network Camera	Active	1C:C3:16:24:09:D2	192.168.69.96	80	255.255.240.0	192.168.69.1	MS-C2964-FPB	2022-01-09 17:	40.7.0.79-r7	Θ
16       Network Camera       Active       1C:C3:16:2A:06:69       192:168.69:11       192:168.69:1       VMI:2MPX23IR       2022:03:11 21       45.71.79       Image: Comparison of the comparison of	5	14	Network Camera	Active	1C:C3:16:24:60:AA	192.168.69.97	80	255.255.255.0	192.168.69.1	MS-C5375-EPB	2022-03-14 18:	41.7.0.76-r3	Θ
17         Network Camera         Active         1C.C3.16.24.660.F7         192.168.69.12         80         255.255.50         192.168.69.1         MS-C2975-P8         2022-03-10         20         40.7.0.79-r7         Image: Comparison of the comparison	1	15	Network Camera	Active	1C:C3:16:2A:06:91	192.168.69.98	80	255.255.255.0	192.168.69.1	MS-C5367-X23PC	2022-03-15 09:	45.7.0.79-r30	Θ
18         Network Camera         Active         10:C3:16:28:5F:D2         19:2:168.69:128         80         255:255:255.0         19:2:168.69:1         MS-C8:166-FILPC         20:22-03-11         10:         45:7.0.79-LP         Image: Comparison of the comparison of t		16	Network Camera	Active	1C:C3:16:2A:06:69	192.168.69.116	80	255.255.255.0	192.168.69.1	VMI-2MPX23IR	2022-03-11 21:	45.7.1.79	0
/37 Device Name: Network Camera IP: 192.168.69.204 Port: 80 Netmasic 255.255.255.0 Gateway: 192.168.69.1 DNS: 8 .8 .8 .8 () Activate 🕹 Export Device List X) Modify	1	17	Network Camera	Active	1C:C3:16:24:60:F7	192.168.69.125	80	255.255.255.0	192.168.69.1	MS-C2975-PB	2022-03-10 20:	40.7.0.79-r7	Θ
💓 Activate 🔳 Export Device List 💥 Modify	5	18	Network Camera	Active	1C:C3:16:2B:5F:D2	192.168.69.128	80	255.255.255.0	192.168.69.1	MS-C8166-FILPC	2022-03-11 10:	45.7.0.79-LP	Θ
				vork Came	ra IP: 192.168.6	9.204 Port:	80	Netmask:	255.255.255.0		-	0	

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

Select single camera:

0	N IP	PC Tools		Network			review (	<b>G</b> Jøgrade			▲ admin A Password Q Search h	
	No.	Device Name 🔺	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
C	18	Network Camera	Active	1C:C3:16:2B:5F:D2	192.168.69.128	80	255.255.255.0	192.168.69.1	MS-C8166-FILPC	2022-03-11 10:	45.7.0.79-LP	0
П	19	Network Camera	Active	1C:C3:16:2B:C4:C9	192.168.69.134	80	255.255.255.0	192.168.69.1	MS-C2967-X23R	2022-03-14 14:	45.8.0.1-a2	0
С	20	Network Camera	Active	1C:C3:16:22:0B:53	192.168.69.135	80	255.255.255.0	192.168.69.1	MS-C2961-QELPB	2022-03-11 19:	43.7.0.79-LP	0
Γ	21	Network Camera	Active	1C:C3:16:27:60:43	192.168.69.137	80	255.255.240.0	192.168.69.1	LS2914-ZYNX36	2022-02-11 09:	41.7.44.78-a	0
С	22	Network Camera	Active	1C:C3:16:24:F0:3C	192.168.69.139	80	255.255.255.0	192.168.69.1	MS-C5351-HEPB	2022-02-22 09:	43.7.0.79-r3-t2	0
C	23	Network Camera	Active	1C:C3:16:90:81:5E	192.168.69.203	80	255.255.255.0	192.168.69.1	MS-C9674-PB	2022-02-24 13:	43.7.0.79-r12	Θ
	24	Network Camera	Active	1C:C3:16:2B:51:CC	192.168.69.204	80	255.255.255.0	192.168.69.1	MS-C2866-X4RPC	2022-03-15 10:	45.8.0.1-a2	Θ
ſ	25	Network Camera	Active	1C:C3:16:29:F5:8D	192.168.69.205	80	255.255.255.0	192.168.69.1	MS-C5365-PB	2022-03-07 14:	43.7.0.80-b	Θ
С	26	Network Camera	Active	1C:C3:16:29:B6:51	192.168.69.209	80	255.255.255.0	192.168.69.1	MS-C5361-HEPB	2022-03-06 10:	43.7.0.79-r12	0
ſ	27	Network Camera	Active	1C:C3:16:11:58:AD	192.168.69.211	80	255.255.255.0	192.168.69.1	NC9674-PA	2022-03-15 14:	32.8.1.1-a2	0
1/38 Oper		Device Name: <b>Netw</b>	ork Came	ra IP: 192.168.6	9 .204 Ports	80	Netmask:	255.255.255.0	Gateway: 19	2.168.69 .1	DNS: <b>8 .8 .8</b> e List XM	.8 Todify
							V2.4.0.4			E Sa	we 🛞 G	licar

Select multiple cameras:

	6		PC Tools			- 🕱 -		0	G		L adr	¢ − nin	
												ırch here	<b>P</b> o
		No.	Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model Run-up Time	Version	Webpage	
	C.	9	Network Camera	Active	1C:C3:16:21:01:C4	192.168.5.191	80	255.255.255.0	192.168.5.1	MS-C2962 2022-02-08 15:	40.7.0.79-r7	0	
	С	10	Network Camera	Active	1C:C3:16:27:6B:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373 2022-03-11 20:	41.7.0.79	Θ	
	•	.1	Network Camera	Active	1C:C3:16:2A:07:33	192.168.69.60	80	255.255.255.0	192.168.69.1	MS-C2967 2022-03-15 14:	45.7.0.80-LP	0	
	•	.2	Network Camera	Active	1C:C3:16:20:10:43	192.168.69.61	80	255.255.240.0	192.168.69.1	MS-C2963 2022-03-03 13:	43.7.0.79-LP	0	
		.3	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266 2022-03-15 11:	45.8.0.1-AIo	0	с
		.4	Network Camera	Active	1C:C3:16:24:09:D2	192.168.69.96	80	255.255.240.0	192.168.69.1	MS-C2964 2022-01-09 17:	40.7.0.79-r7	0	
		.5	Network Camera	Active	1C:C3:16:24:60:AA	192.168.69.97	80	255.255.255.0	192.168.69.1	MS-C5375 2022-03-14 18:	41.7.0.76-r3	0	
		.6	Network Camera	Active	1C:C3:16:2A:06:91	192.168.69.98	80	255.255.255.0	192.168.69.1	MS-C5367 2022-03-15 09:	45.7.0.79-r30	0	
L		.7	Network Camera	Active	1C:C3:16:2A:06:69	192.168.69.116	80	255.255.255.0	192.168.69.1	VMI-2MPX 2022-03-11 21:	45.7.1.79	0	
	С	18	Network Camera	Active	1C:C3:16:24:60:F7	192.168.69.125	80	255.255.255.0	192.168.69.1	MS-C2975 2022-03-10 20:	40.7.0.79-r7	Θ	
	î.												
	7/38		📄 Same IP	Start IP: (	192.168.69 .96	Ports 80	N	letmask: 255.255	5.240.0	Gateway: 192.168.69 .1	DNS: 8.8	.8 .8	,
										🕢 Activate 📥 Export		Modify	
	Oper	ating Ir	nformation										
											) Save	🗙) Clear	
												<u> </u>	

**Step4:** If the selected camera shows "Inactive" in the status bar, click "Activate" 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:

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

		Network	— 🛞 — Setting		— G Upgrade			
) IPC Tools	59 Network Camera	Status MAC Inactive 10:03:16:24:09:D2 Activation		Port         Netmask           80         255.255.255.0           90         955.955.0	Gateway 192.168.5.1 × 168.7.1 × 168.7.1 168.7.1 168.7.1	MS-C2975-PB	Run-up Time 2018-12-19 17:48:04 2018-12-21 17:43:15 2018-12-24 15:00:51 2018-12-24 17:02:43 2018-12-18	Version 40.7.0.65-pwd- a6 41.7.0.65-pwd- a6 41.7.0.68-a6 40.7.0.68 41.7.0.68
NVR Tools	Security Answer 1:	our father's name? our father's name?		· · ·	168.2.1 168.5.1 168.7.1 168.7.1	MS-C2862-FPB MS-C2963-PB MS-C2972-FPB	16:10:37 2018-12-21 16:44:30 2018-12-18 13:38:35 2018-12-20 13:27:14 2018-12-20 13:27:14 2018-12-18 22:18:58 2018-06-15 17:10:58 2018-06-15 2018-12-20 16:15:03 2018-07-04	a6 41.7.0.68-a6 40.7.0.67-421 40.7.0.67-410 41.7.0.67-412 41.7.0.65-74 41.7.0.55-74 41.7.00000000000000000000000000000000000
Calculators	Security Answer 2:	our father's name?		(4)	255.0	Gateway 192.1	Export Device Li	
				V2.4.0.1-a8			Bay	e 🚫 Clear

**Step5:** After activation, you can change the IP address or other network values, and then click "Modify" button.

0			(		× –	(	Ø	- G		adı		
	` IP(	C Tools		letwork				Upgrade			345678 arch here	<u> </u>
	No.	Device Name	Status	MAC	IP 🖌	Port	Netmask	Gateway	Model	Run-up Time	Version	
С	58	Network Camera	Active	1C:C3:16:90:81:5E	192.168.7.92	80	255.255.240.0	192.168.7.1	NC9674-PB	2019-09-24 17:36:18	43.7.1.72	e
	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	e
С	60	Network Camera	Active	1C:C3:16:21:00:22	192.168.7.104	<b>80</b>	255.255.240.0	192.168.7.1	MS-C2962-FIPB	2019-09-02 03:22:14	40.7.0.69-r11	6
•	61	Network Camera	Active	1C:C3:16:24:09:	192.168.7.114	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-09-30 08:55:39	40.7.0.72	6
С	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
C .	63	IPCAM	Active	1C:C3:16:21:FA:67	192.168.7.132	2 80	255.255.255.0	192.168.5.1	MS-C3772-FIPB	2019-09-27 11:25:49	41.7.0.71-r15	C
С	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
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 11:20:43	43.7.0.72-fsh- autotrack-a2	
C	66	Network Camera	Active	1C:C3:16:22:01:0B	192.168.7.202	2 4200	255.255.240.0	192.168.7.2	MS-C9674-PB	2019-07-31	42.7.0.67-r1	6
C	67	202大会议室1	Active	1C:C3:16:21:01:10	192.168.7.212	2 80	255.255.240.0	192.168.7.1	MS-C2972-FPB	2019-09-25	40.7.0.71-r15	
<u> </u>	69	2007本本议会2		10-02-16-01-20-	100 160 7 01/		255 255 240 0	100 169 7 1	NG 02072 DD	14:19:04 2019-09-26	40 7 0 71 -15	6
1/386		Device Name: etwor	Camer	a IP: 192.168.7	.114) Port	80	Netmask: 25	5 255 240 0	Gateway: 192.	168.7 .1 DN	IS: <b>8.8.8</b>	
		vence name. Curo	Coamen	U 102.100.1	1012		116111251. 25	0.200.240.0				
Operatin								(A	) Activate 📥	Export Device Li	st 🗶 Moc	
1		9-09-30 09:10:53			[1C:C3:16:24:09:E	02] Modi	fy IP:192.168.7.11	3->192.168.7.1	14 successfully.	_	_	
						 V2 4				💾 Sav	e 🚫 Clear	
						V2.4						

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

	Languaga English 🤍 🗸
Milesight — Network Camera —	
🙎 admin	
â	
Remember me? Forget Password?      Logn	
Copyright © 2022 Milesight, All Rights Reserved.	

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

## 5.1.2 Assign An IP Address via Browser

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

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

**a.** Start-->Control Panel-->Network and Internet Connection-->Network Connection-->Local Area Connection, and double click it;

nternet Protocol Version 4 (TCP/IPv4) Properties								
General								
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.								
Obtain an IP address automatically								
O Use 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 address autom	natically							
Use the following DNS server add	resses:							
Preferred DNS server:	192 . 168 . 1 . 1							
Alternate DNS server:	• • •							
Validate settings upon exit	Advanced							
	OK Cancel							

**b.** Click "Advanced", and then click "IP settings"--> "IP address"--> "Add". 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);

Advanced TCP/IP Settin	ngs		? ×
IP Settings DNS	WINS		
IP addresses			
IP address		Subnet mask	
192.168.1.10		255.255.255.0	
	Add	Edit	Remove
Default gateways:			
Gateway		Metric	
192.168.1.1		Automatic	
	Add	Edit	Remove
Automatic metric Interface metric:		]	
		ОК	Cancel
TCP/IP Address		-	? ×
IP address:	192 . 1	.68.5.6	1
Subnet mask:	255 . 2	255 . 255 . 0	
	C	Add	Cancel

**Step2:** Start the browser. In the address bar, enter the default IP address of the camera:<u>http://192.168.5.190;</u>

**Step3:** 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 to the camera with the user name (admin) and a custom password.



- Password must be 8 to 32 characters long, contain at least one number and one letter.
- 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 "Settings" --> "Network" --> "Basic" --> "TCP/IP". The Network Settings page appears (Shown as below Figure);

sight Network Carr	nera				🕀 English 🗸	💄 admin 🗸
🖆 Media	>	TCP/IP HTTP	RTSP UPNP DDNS EN	nali FTP		
Network	~	IPv4				
Basic Advanced		Туре	Static DHCP			
E Storage		IP Address	192 . 168 . 69 . 66	Test		
Event	>	IPv4 Subnet Mask	255 . 255 . 255 . 0			
System	>	IPv4 Default Gateway	192 . 168 . 69 . 1			
		Preferred DNS Server	8.8.8.8			
		IPv6				
		IPv6 Mode	Manual ~			
		IPv6 Address				
		IPv6 Prefix				
		IPv6 Default Gateway				
		мти				
		MTU	1500	1200-1500 Bytes		
			Save			
	Media Media Metwork Basic Advanced Storage Storage Exent	<ul> <li>Network</li> <li>Basic</li> <li>Advanced</li> <li>Storage</li> <li>Event</li> </ul>	Media TCP/P   Network IP4   Balic Type   Advanced IP4   Storage IP4   IP4 Type   IP4 IP4   Storage IP4   IP4 IP4   Storage IP4   IP4 IP4   Storage IP4   IP4 IP4	Image: Storage       Image	Belia       >       TCRIP       HTP       RTSP       UPAP       DNS       Email       PTP         Belic       -	Image: Addie Image: Comparison of the state of the

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

Step6: The change of default IP address is completed.

# 5.2 Accessing from the Web Browser

The camera can be used with the most standard operating systems and browsers. And the camera was upgraded 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.



- 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).
- 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).
- For more details about set plugin-free mode of Milesight camera, please refer to <u>https://</u> milesight.freshdesk.com/a/solutions/articles/69000643388.

# 5.3 Accessing from Milesight Back-end Software

## 5.3.1 Accessing from Milesight NVR (Network Video Recorder)

Milesight NVR Series can work with Milesight network cameras. Based on embedded Linux operation system, Milesight NVR Series manages and stores HD video data. It owns multidisk management systems, front end HD device management system, HD video analysis system and high-capacity system for video. Also, it adopts the technology of high flow capacity data network transmitting&transmission, with multi-channel video decoding, to achieve functions like intelligent management, safe storage, HD decoding, etc.

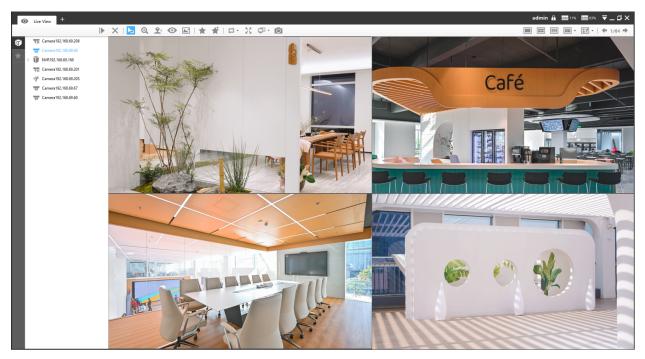
For detailed information about how to use the Milesight NVR Series, please refer to *Milesight NVR User Manual*.



# 5.3.2 Accessing from Milesight CMS (Center Management System)

Milesight Central Management System (CMS) is a central management system for Milesight network cameras and Milesight NVR. It is an intelligent surveillance solution for users to control up to 256 devices, to remote preview and playback more conveniently. With high-efficient management performance, Milesight CMS software offers users a superior administration experience in such centralized system. Featured with friendly UI design, the intelligent video management system CMS allows users of all levels to setup and deploy solutions as easy as ABC. Moreover, E-map function provides users a smarter way to show the devices spatial distribution. The software could be downloaded from our website <a href="https://www.milesight.com/">https://www.milesight.com/</a>.

Please install Milesight CMS; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to *Milesight CMS User Manual*.

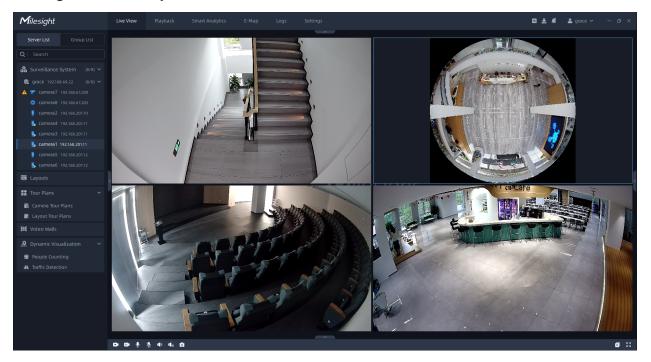


# 5.3.3 Accessing from Milesight VMS Enterprise (Video Management System)

Milesight VMS Enterprise is a professional and intelligent video management software for businesses. Together with our cameras, it can simplify and freshen up your video surveillance. With advanced C/S architecture, it fulfills your demands and expectations, with

rich core functions including live view, record, E-Map, event alarm and smart analysis etc. The software could be downloaded from our website <u>https://www.milesight.com/</u>.

Please install Milesight VMS Enterprise; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to *Milesight VMS Enterprise User Manual.* 



# Chapter 6. Live View

# 6.1 Live Video

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



## Table 3. Description of the buttons

No.	Parameter	Description
1	Live Video	Click to access the live view page.
2	Playback	Click to access the playback page.
3	Settings	Click to access the configuration page.
4	⊕ English ∽	Click to select system language.

No.	Parameter	Description
5	💄 admin 🗸	Display the user name and click to logout.
6	Primary Stream 🖌	Choose the stream ( <b>Primary/Secondary/Tertiary</b> ) to show on the current video window.
		Choose the options (Hide Detection Region/Region Entrance/ Region Exiting/Advanced Motion/Line Crossing/Loitering/ People Counting/Object Left/Object Remove/Regional People Counting) to hide/display detection region on the current video window.
7	Regional People Counting 🖌	
		<b>Note:</b> The <b>People Counting/Regional People Counting</b> is optional for MS-Cxxxx-xPA.
8	<ul> <li>Recording</li> </ul>	When recording, the icon appears.
9	() Alarm	When an alarm of VCA event was triggered, the icon appears.
10	<mark>ពុំ</mark> វា Alarm	When an alarm of people counting was triggered, the icon appears.
11	<b>s</b> Alarm	When an alarm of Motion Detection was triggered, the icon appears.
12	Alarm	When an alarm of Hard Hat Detection was triggered, the icon appears.

No.	Parameter	Description
13	ک Alarm	Except for the kinds of alarms above, when other alarms were triggered, the icon appears.
14	Stop/Play	Stop/Play live view.
15	<b>o</b> Snapshot	Click to capture the current image and save to the configured path. The default path is: C:VMS\+-1\ IMAGE-MANUAL.
16	Start/Stop Recording	Click to <b>Start Recording</b> video and save to the configured path. The default path is C:VMS\+-1\MS_Record. Click again to <b>Stop</b> <b>Recording</b> .
17	<b>€</b> Digital Zoom	When enabled, you can zoom in a specific area of video image with your mouse wheel.
18	Manual Output	Manually trigger Camera Alarm Output.
19	Kanto ✓ Window Size	Click to display images at a window size.
20	Full Screen	Click to display images at full-screen.
21	Face Detection	Click to enable the Face Detection Mode.  Note: Only appears when your camera is MS-Cxxxx-xPC/PE.
ŶţŶ		<b>Zoom:</b> Adjust the Zoom length of the lens. <b>Note:</b> Only work when your camera is equipped with motorized lens.

No.	Parameter	Description
٩٩ ١٩		Focus-/Focus+: Adjust focus of the lens.  Note: Only work when your camera is equipped with motorized lens.
¢٩		Iris-/Iris+: Adjust Iris of the lens.  Note: Only work when your camera is equipped with motorized lens.
		Focus Speed: To adjust the speed of focus.  Note: Only work when your camera is equipped with auto focus lens.
		Zoom-/Zoom+: Click to zoom in and zoom out. Note: Only work when your camera is equipped with auto focus lens.
∳ ¢		Focus-/Focus+: Click to focus near or far of the lens. Note: Only work when your camera is equipped with auto focus lens.
	ć 🏽 📀	<ul> <li>Lens Initialization, Auxiliary Focus and Auto Iris.</li> <li>Note:</li> <li>The Auto Iris is turned on by default when your camera is equipped with auto focus lens.</li> <li>The Auto Iris support turn on/off when your camera is equipped with P-Iris.</li> </ul>
	* 0	Brightness: Adjust the Brightness of the scene.         Contrast: Adjust the color and light contrast.
¢		<b>Saturation</b> : Adjust the Saturation of the image. Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out".
	-/	<b>Sharpness</b> : Adjust the Sharpness of image. Higher Sharpness sharps the pixel boundary and makes the image looks "more clear".
	Default	2D DNR/3D DNR: Adjust the noise reduction level.         Default: Restore brightness, contrast and saturation to default settings.

# 6.2 Face Detection Mode

Milesight face detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring efficiency and benefits the large population related industries such as public security, access control and business management.

**Note:** Make sure your camera model is MS-Cxxxx-xPC/PENCxxxx-xPC/PE.

**Step1:** Click to enable the Face Detection Mode. And the camera will detect faces in live view according to the region and conditions you set.

**Note:** Before enabling the face detection mode, ensure that the face detection function has been enabled and configured. For more details about how to configure the face detection, please refer to <u>8.4.4 Face Detection (page 147)</u>.

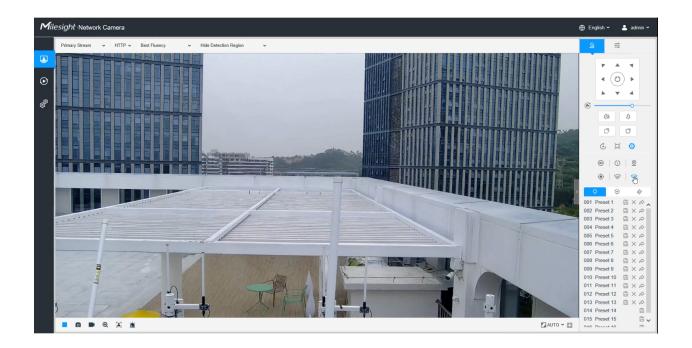
**Step2:** When Attribute Recognition is enabled, the attributes of detected faces will be displayed on the left side of the Live View interface.

**Step3:** When Face Privacy Settings is enabled, the detected faces in the face detection area will be mosaic automatically. The size of the mosaic is related to that of the detected faces, and users can customize the size of the detected faces as needed. The Face Privacy function meets the needs of users in some special scenarios, which greatly protects people's portrait rights.

**Note:** Face Capture/Face Detection Message Post/Attribute Recognition are not available in Face Privacy Mode.

# 6.2 PTZ Mode

After logging in the PTZ network camera web GUI successfully, user is allowed to view live video as follows.



## 6.2.1 Operations on Live View Page

**Note:** For description of other buttons, you can refer to <u>Table 1 (page 24)</u>.

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

Table 4. Description of the buttons

No.	Parameter	Description
	Focus-/Focus+	Click to focus near or far of the lens.
	J 🗆 🧿	Lens Initialization, Auxiliary Focus and Auto Iris.  Note: The Auto Iris is turned on by default.
		Lighting For 30s: Click to open/ close the White LED for lighting 30s. Note: Only for PTZ Bullet.
	÷   🗿   Ü	3D Positioning: Click to enable/ disable 3D positioning.
0	◎ ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	One-touch Patrol: Click to carry out the patrol.
¥	<u> </u>	Auto Home: Click to enable Auto Home.
		Manual Tracking: Click to track the moving objects.
		Dehumidifying: Click to enable the fan working mode.
		Manual Wiper: Click to enable the manual wiper. The wiper will perform two swipes back and forth and then stop.         Image: State of the sta
	Ģ	Enable to set 300 preset positions for each regional view channel.
	۲	Enable to set 8 patrol paths for each regional view channel.
	¢	Display the pattern.

## 6.2.2 3D Positioning

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

## Steps:

- 1. Click <sup>30</sup> on the toolbar of Live View interface.
- 2. Operate the 3D positioning function
  - Left click a position of the Live View, and the corresponding position will be moved to the center of the Live View.

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

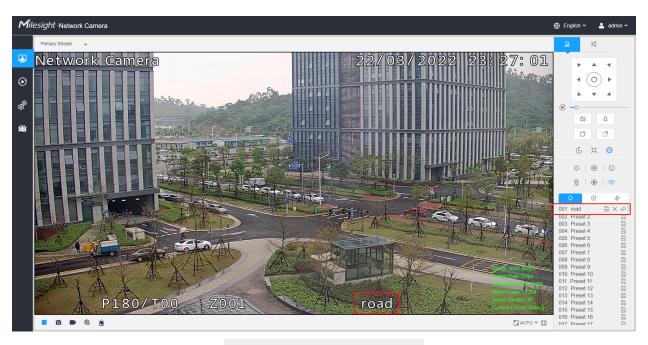
## 6.2.3 Set / Call a Preset / Patrol / Pattern

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

## Set a preset:

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

	<b>Ç</b>	۲		¢	
001	road		B	×	Ø
002	Preset	2			a
003	Preset	t 3			a
004	Preset	4			B
005	Preset	t 5			B
006	Preset	t 6			B
007	Preset	t 7			B
800	Preset	8			B
009	Preset	t 9			B
010	Preset	t 10			B
011	Preset	11			B
012	Preset	12			B
013	Preset	t 13			B
014	Preset	14			B
015	Preset	15			B
016	Preset	16			B
017	Preset	17			E



Pati	h 1		+ × ↑ ↓
	Prese	et	Speed Time
01	1	$\sim$	30 ~ 15
02	2	~	30 ~ 15
03	3	$\sim$	30 ~ 15
Save		е	Cancel





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

**Step3:** Click <sup>C</sup> to save the setting of the current preset;

**Step4:** Click  $\times$  to delete the chosen preset.

**Note:** Up to 300 presets can be configured (18 presets are not modifiable). Up to 300 presets can be configured (for each regional view channel).

#### Calling a preset:

Select a defined preset from the preset list and click  $\stackrel{\frown}{\sim}$  to call the preset.

(	<b>Q</b>	۲		\$	>
001	road		B	$\times$	Ø
002	Preset	t 2			a
003	Preset	t 3			a
004	Preset	4			a
005	Preset	t 5			a

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

#### **Table 5. Special Presets**

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

	P	•	₽
	Preset		B
	Auto F	- C	
034	Goto Z	ero	Ŕ
035	Self Cl	heck	Ŕ
036	Patrol		Ŕ
037	Path1		Ŕ
038	Path2		Ŕ
039	Path3		Ŕ
040	Path4		Ŕ
041	Path5		Ŕ
042	Path6		Ŵ
043	Path7		Ŕ
044	Path8		Ŕ
045	Patterr	n1	Ŕ
046	Patterr	n2	Ŵ

## 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 <sup>()</sup> to enter the patrol settings interface;

**Step2:** Select a patrol number, the setting icon will appear <sup>(2)</sup>, click it;

**Step3:** Click + to add presets to this patrol, as shown in Figure;

Path 1			+	×	t +	
	Preset		Speed	1	Time	
01	1	~	30	~	15	
02	2	~	30	~	15	
03	3	~	30	~	15	
Save				Car	icel	

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

#### **Table 6. Description of Patrol Settings**

Name	Description		
Patrol Speed	The speed of moving from one preset to another.		
Patrol Time	The duration staying on one patrol point. The PTZ camera moves to another patrol point after the set patrol time.		

Step5: Click

Save to save the patrol settings.

## Note:

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

## Call a patrol:

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

	Q		0		\$	2
001	Path	1		•	Ø	×
002	Path	2				Ø
003	Path	3				Ø
004	Path	4				Ø
005	Path	5				Ø
006	Path	6				Ø
007	Path	7				Ø
008	Path	8				Ø

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

#### Set / Call a pattern

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

#### Set a pattern:

**Step1:** In the PTZ control panel, click  $\Phi$  to enter the pattern settings interface;

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

Q	٢	\$
001	Pattern 1	۲
002	Pattern 2	۲
003	Pattern 3	۲
004	Pattern 4	۲

**Step3:** Click <sup>(IIII)</sup> to activate recording the panning, tilting and zooming actions;

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

**Step5:** Click • to save all the pattern settings.

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

#### Call a pattern:

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

Q	٢	₽
001	Pattern 1	• • ×
002	Pattern 2	۲
003	Pattern 3	۲
004	Pattern 4	۲

#### **Note:**

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

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

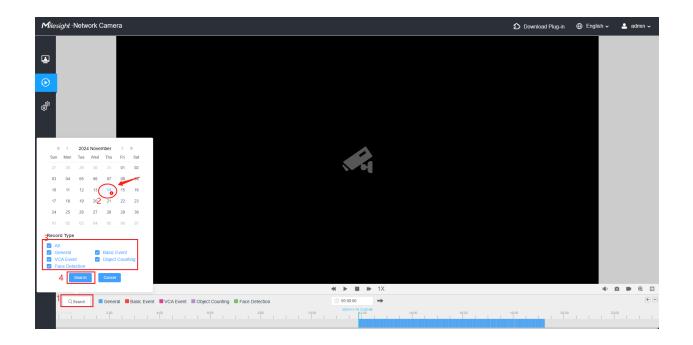
# Chapter 7. Playback

Click to enter playback interface. In this part, you can search and playback the recorded video files stored in SD cards or NAS. The Playback interface is as below:

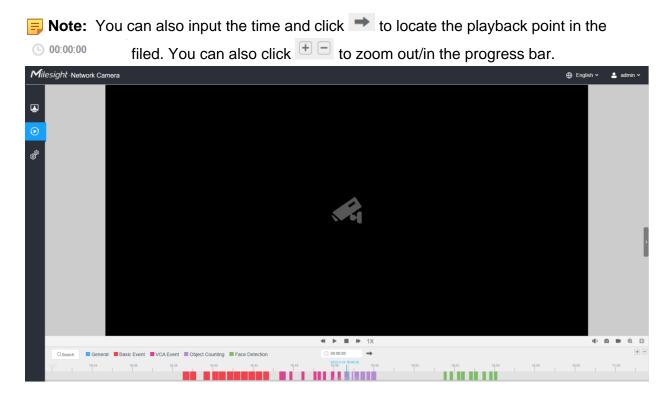


**Step1:** Click the "**Search**" botton, choose the data and record type when the window pops up.

**Note:** A red icon will appear under the corresponding date when there is a recording for that day users can quickly identify which dates have recordings.



**Step2:** The timeline displays the video files for the day and show different colors according to selected record type. Drag the progress bar with the mouse to locate the exact playback point as needed.



**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.



Table 7. Description of the buttons

No.	Parameter	Description
	≪ < 2024 November > ≫	Choose date to search recorded videos.
Q Search	Sun         Mon         Tue         Wed         Thu         Fri         Sat           27         28         29         30         31         01         02           03         04         05         06         07         08         99           10         11         12         13         14         15         16           17         18         19         20         21         22         23           24         25         26         27         28         29         30	Search the recorded videos by record type ( <b>All/General/</b> <b>Basic Event/VCA Event/People Counting</b> ). The timeline will show different colors according to selected record type as below:
	01 02 03 04 05 06 07 Record Type	General Basic Event VCA Event Object Counting
	<ul> <li>All</li> <li>General</li> <li>VCA Event</li> <li>Object Counting</li> <li>Face Detection</li> <li>Search</li> <li>Cancel</li> </ul>	For LPR camera, the record type include <b>All/General/Basic</b> <b>Event/LPR</b> . The timeline will show different colors according to selected record type as below:
		General Basic Event LPR

No.	Parameter	Description
1	Speed Down/Speed Up/Speed	Adjust the speed of video playback. <b>Speed Down:</b> Includes 0.5X and 0.25X for Play. <b>Speed Up:</b> Includes 2X and 4X for Play. <b>Speed:</b> The default playback speed is 1X
2	► / 11 Play/Pause	Play/Pause the video.
3	Stop	Stop the video.
4	© 00:00:00 Search Time	Select the time that want to locate.
5	Jump	Go To.

#### Table 8. Description of the buttons

No.	Parameter	Description
1	<b>بڑ</b> » Mute	Click to enable the audio.
2	<b>o</b> Snapshot	Click to take a snapshot.
3	Start/Stop recording	Click to start/stop recording.
4	Q Digital Zoom	Click to zoom on/off .
5	Full Screen	Full Screen.

No.	Parameter	Description
6	Time Expand/Narrow	Time narrow/expand.

# Chapter 8. Settings

## 8.1 Media

## 8.1.1 Video

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

#### **Primary Stream Settings**

Media <   Media    Nobo   Image   Audo   Becord Steam Type   Central   Eable   Eable   Frame Size   1920*1080   Frame Size   1920*1080   Madmum Frame Rate   25   1920*1080   Bit Rate   Off   Off   Off   Off   Off   Frame Size   Bit Rate   Off   Off   Off   Off   Off   Off   Frame Size   Strate   Off   Frame Size   Strate   Off    Off	VdocRecord Stream TypeGeneralEventAudioEnableEnableIf NetworkNodo CodecH 264In 264If StorageFrame State1920*1080Is20*1080If EventNadaman Frame Rate2.52.5IpsIf RateOffOffOffIpsStorageBit RateOffOffIpsIf RateOffOffIpsIf RateOffIpsIf RateCBRIpsIf RateIpoteIpanIf RateIpoteIpanIf RateIpoteIpanIf RateIpoteIpanIf RateIpoteIpanIf RateIpoteIpanIf RateIpoteIpanIpoteIpanIpanIpoteIpanIpoteIpanI	liles	sight ·Network Carr	nera					⊕ English ∽ 💄
Image     Recod Steaming     General     Event       Audo     Enable     Enable     Image       Image     Network     Nococec     H264      Image       Image     Nococec     H264      Image       Image     Frame Size     Image     Image       Image     Frame Size     Image     Image       Image     Socolece     H264      Image       Image     Frame Size     Image     Image       Image     Socolece     H264      Image       Image     Socolece     Image     Image       Image     Socolece     Image     Image       Image     Image     Image     Image	ImageRecod SteamingGeneralEventAudoEnableEnableII NetworkMocococeH264 < H264 < IFrame Sco120*1080 < IS20*1080 < IS20*10		🖧 Media	v	Primary Stream Sec	ondary Stream Tertia	ary Stream	m	
enade enade     enade enade     enade enade     enade H264     enade isourison           enade isourison <th>Enade Enade     Introde Introde     Value Value     Value Value     Prame Storage 1920/1000        Prame Storage 1920/1000        Prame Storage 1920/1000              Prame Storage 1920/1000  &lt;</th> <th>ľ</th> <th>Image</th> <th></th> <th>Record Stream Type</th> <th>General</th> <th></th> <th>Event</th> <th></th>	Enade Enade     Introde Introde     Value Value     Value Value     Prame Storage 1920/1000        Prame Storage 1920/1000        Prame Storage 1920/1000              Prame Storage 1920/1000  <	ľ	Image		Record Stream Type	General		Event	
E Storage Frame Size   I E Storage   I E Forme   I E	E Storage Frame Size   I E Storage   I E Forme   I E			>					
Image: System Maximum Frame Rate 25 ps   Image: System Bit Rate 4096 4096 ktps   Smart Stream Orf Orf Bit Rate   Image: System Orf CBR CBR   Image: System Man Image: System   Image: System Image: System Image: System	Image: System Maximum Frame Rate 25 ps   Image: System Bit Rate 4096 4096 ktps   Smart Stream Orf Orf Bit Rate   Image: System Orf CBR CBR   Image: System Man Image: System   Image: System Image: System Image: System	ŀ	E Storage						
			S Event	>					
Bit Rate Control     CBR     CBR       Profile     Main     Main       I-frame Interval     S0     50	Bit Rate Control     CBR     CBR       Profile     Main     Main       I-frame Interval     S0     50		System	>	Bit Rate	4096			
Profile Main V Main V I-frame interval 50 50 frame(1-120)	Profile Main V Main V I-frame interval 50 50 frame(1-120)				Smart Stream	off	· •	m	v
I-frame Interval 50 50 frame(1-120)	I-frame Interval 50 50 frame(1-120)				Bit Rate Control	CBR			×
	Save				I-frame Interval				frame(1-120)

**Secondary Stream Settings** 

<b>M</b> ile:	sight ·Network Camera				🕀 English 🗸	💄 admin 🗸
	🖧 Media 🗸	Primary Stream	econdary Stream Tertiary	Stream		
	Video Image	Enable				
$\odot$	Audio	Video Codec	H.265 Y			
<u>م.</u>	Network	Frame Size	704*576 ~			
ø	🚍 Storage	Maximum Frame Rate	30 ~	fps		
	5 Event 3	Bit Rate	512 ~	kbps		
	🔊 PTZ	Smart Stream	on ~			
	🕼 System	Bit Rate Control	CBR ~			
		Profile	Base Y			
		I-frame Interval	60	frame (1-120)		
			Save			

#### **Tertiary Stream Settings**

Miles	<i>ight</i> ·Network Camera	a				⊕ English ∽	💄 admin 🗸
	🖧 Media	~	Primary Stream Sec	condary Stream Tertiary	Stream		
•	Video Image Audio		Enable Video Codec	✓ H.264 ✓			
	Network	>	Frame Size	640*480 ×			
ø	Storage		Maximum Frame Rate		fps		
	3 Event	>	Bit Rate	1024 ~			
	🔊 PTZ		Smart Stream	Off ~			
	System	>	Bit Rate Control	CBR ~			
			Profile	Main ~			
			I-frame Interval	50	frame (1-120)		
				Save			

## Table 9. Description of the buttons

Parameters	Function Introduction
Record Stream Type	General & Event are available only for Primary Stream. General refers to continuous record video, while Event includes events that can trigger alarms, such as Motion, Exception, LPR and so on. This item can separately set different bit rate and frame rate for different Recording Stream Types. If user chooses Event, video will be recorded according to the configuration of video stream type when an event happens, thereby greatly reducing the recording storage space.
Enable Event Stream	This item is optional only if you selected the Event.
Video Codec	H.265/H.264/MJPEG are available.
Frame Size	Options include 8M(3840×2160), 6M(3072×2048), 5M(2592*1944), 5M(2560*1920), 5M(2560*1440), 4M(2592*1520), 3M(2304*1296), 3M(2048*1536), 1080P(1920*1080), 2M(1600 *1200), 1.3M(1280*960), 720P(1280*720), D1(704*576). For <b>Secondary Stream</b> , it includes 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176. For <b>Tertiary Stream</b> , it include 1920*1080, 1280*720, 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176. <b>Fote:</b> The options of <b>Frame Size</b> are variable according to the model.
Maximum Frame Rate	Maximum refresh frame rate of per second and it is variable according to the mode.
Bit Rate	Transmitting bits of data per second, this item is optional only if you select the H.265/ H.264 Set the bitrate to 32~16384 Kbps. The higher value corresponds to the higher video quality, and the higher bandwidth is required as well.
Smart Stream	Optional to turn On/Off Smart Stream mode. Smart Stream mode remarkably reduces the bandwidth and the data storage requirements for network cameras while ensuring the high quality of images, and it is a 10-level adjustable codec. Level: Level 1~10 are available as needed.
Bit Rate Control	<b>CBR</b> : Constant Bitrate. The rate of CBR output is constant.
Bit Rate Control	<b>VBR</b> : Variable Bitrate. VBR files vary the amount of output data per time segment.
Image Quality	Low/Medium/High are available, this item is optional only if you select VBR.

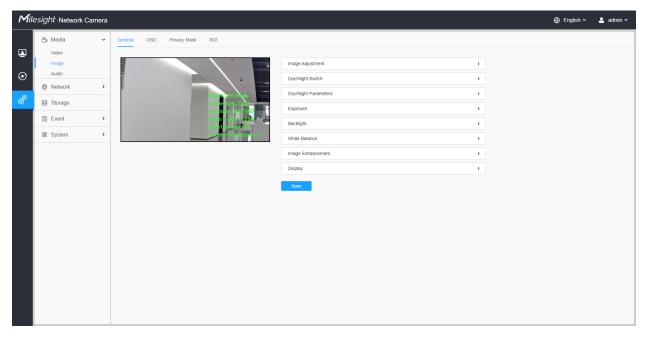
Parameters	Function Introduction
Profile	The option is for H.264, Main/High/Base can be selected as needed.
I-frame Interval	Set the I-frame interval to 1~120, 50 for the default. This item is optional only if you select the H.265/H.264. The number must be a multiple of the number of frames.

## 8.1.2 Image

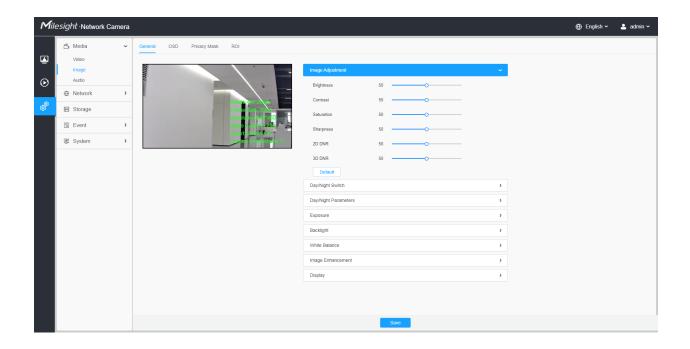
General settings of image including the image adjustment, day/night setting and image enhancement can be set in this module. OSD (On Screen Display) content, privacy mask and video time can be displayed to rich the image information.

#### 8.1.2.1 General

General settings of image including the Image Adjustment, Day/Night Switch, Day/Night Parameters, Exposure, Backlight, White Balance, Image Enhancement and Display can be set in this module.



[Image Adjustment]



#### Table 10. Description of the buttons

Parameters	Function Introduction
Brightness	Adjust the Brightness of the scene.
Contrast	Adjust the color and light contrast.
Saturation	Adjust the Saturation of the image. Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out".
Sharpness	: Adjust the Sharpness of image. Higher Sharpness sharps the pixel boundary and makes the image looks "more clear".
2D DNR	Adjust the noise reduction level.
3D DNR	Restore brightness, contrast and saturation to default settings.
Default	Adjust the Brightness of the scene.

## [Day/Night Switch]

Table 11. Description of the buttons

Parameters	Function Introduction
Day/Night Switch	<ul> <li>Night Mode: Shown in live view based on Night Mode settings.</li> <li>Day Mode: Shown in live view based on Day Mode settings.</li> <li>Auto Mode: Shown in live view based on environment, set the sensitivity for switching Day Mode to Night Mode, or Night Mode to Day Mode.</li> <li>Customize: Shown in live view based on your own settings' time to start/end Night Mode.</li> <li>Note: There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with the modes.</li> </ul>
Day/Night Switch	<b>Day/Night Switch Refocus:</b> With this option enabled, the camera will refocus when switching between day mode and night mode.
Day/Night Switch	Day to Night Value: You can set 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. You can click Reset to reset the value to 36.         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. You can click Reset to reset the value to 82.         IR Light Sensor Value: The current value of the IR light sensor.         Image: Note: The three buttons are optional only if you select Auto Mode.
Day/Night Switch	Start Time of Night: You can set the time for start the Night Mode.         End Time of Night: You can set the time for start the Day Mode.         Image: Start/End Time of Night are optional only if you select Customize Mode.
Smart IR Mode	Support to set the strength of the IR to <b>Auto Mode</b> or <b>Customize</b> to achieve the best effect. With the combination of the High Beam and Low Beam, the IR LEDs technology has been upgraded to provide better image clarity and quality regardless of the object distance. Also, the Low Beam and High Beam's brightness can be adjusted manually or automatically on the basis of the Zoom ratio. Moreover, with the IR anti-reflection panel, the infrared light transmittance is highly increased.

Parameters	Function Introduction
Smart IR Mode	<ul> <li>Near View IR Level: Adjust the light strength of Low-Beams LED light level from 0 to 100.</li> <li>Far View IR Level: Adjust the light strength of High-Beams LED light level from 0 to 100.</li> <li>Note: <ul> <li>Near/Far View IR Level are optional only if you select Customize Mode of Smart IR.</li> <li>Click Reset to reset the light strength to 50.</li> </ul> </li> </ul>
	<b>IR Strength Value:</b> The current value of Low-Beams LED and High-Beams LED light value.

## [Day/Night Parameters]

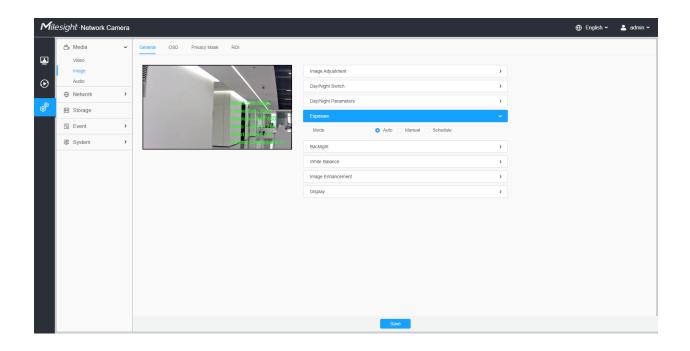
Mill	e <i>sight</i> ∙Network Car	nera										🕀 English 🗸	💄 admin 🗸
	ස් Media	Ý	General OSD	Privacy Mask	ROI								
۲	Video Image		(IIIII)			Image Adjustment					>		
$\odot$	Audio				*	Day/Night Switch					>		
	Network	>			Bitrate Aug and	Day/Night Parameters					~		
ø	E Storage				France Night	Frame Rate 24	France Rate you						
	5 Event	>			Video Creeke 1.264 (* 5 Smart Steam Off	Exposure Level	5	×	5	~			
	System	>			Current Conductions 17	Minimum Shutter	1/25	×	1/25	×			
						Maximum Shutter	1/100000	×	1/100000	¥			
						Limit Gain Level	100		100				
						IR-CUT Latency	55	*	55	×			
						IR-CUT	On	¥	orr	×			
						IR LED	or	~	On	¥			
						Color Mode	Color	×	B/W	×			
							Reset		Reset				
						Advanced Schedule Mode	麣						
						Exposure					>		
						Backlight					>		
						White Balance					>		
							Save						

#### Table 12. Description of the buttons

Parameters	Function Introduction
Exposure Level	Level 0~10 are available to meet your need.
Minimum Shutter	Minimum Shutter is the same as Maximum Exposure Time. Set the minimum Shutter to 1~1/100000s.
Maximum Shutter	Maximum Shutter is the same as Minimum Exposure Time. Set the maximum Shutter to 1~1/100000s.

Parameters	Function Introduction
IR-CUT Latency	The interval time of switching one mode to another.
Limit Gain Level	Set the Limit Gain Level to 1~100.
IR-CUT	Turn on/off IR-CUT.
IR LED	Turn on/off IR-LED.
Color Mode	Select B/W or Color mode.
ESS Advanced Schedule Mode	Here you can customize your special demands for different time, then the Day mode and Night mode will switch automatically according to your settings.

## [Exposure]



#### Table 13. Description of the buttons

Parameters	Function Introduction	
	<ul> <li>Auto Mode, Manual Mode and Schedule Mode are available.</li> <li>Auto Mode: The camera will adjust the brightness according to the light environment automatically.</li> <li>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.</li> <li>Schedule Mode: You can customize the schedule to enable/disable Auto Mode and Manual Mode.</li> </ul>	
Exposure Mode	Edit       ×         Sun.	

## [Backlight]

Mile	e <i>sight</i> ∙Network C	amera							🕀 English 🗸	💄 admin 🗸
۵	tedia Video	~	General OSD	Privacy Mask	ROI					
	Image					Image Adjustment		>		
⊙	Network	>						>		
ø	E Storage			Exposure		>				
	© Event	>		Backlight	Single O Day/Night O Schedule	<b>.</b>				
						Backlight Setting	Off V			
						White Balance		>		
						Image Enhancement		>		
						Display		>		
							Save			

## Table 14. Description of the buttons

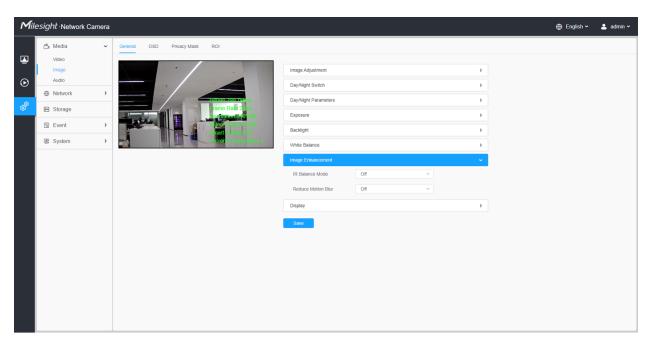
Parameters	Function Introduction					
	<ul> <li>Single Mode: Set single mode for BLC/WDR/HLC.</li> <li>Note: Do not support WDR and General HLC while High Frame Rate is enabled.</li> <li>Day/Night Mode: Support BLC/WDR/HLC on Day Enhancement Mode/Night Enhancement Mode separately.</li> <li>Schedule Mode: Set schedule mode for BLC/WDR/HLC. You can customize the schedule to enable/disable BLC/WDR/HLC mode.</li> </ul>					
Backlight Mode	Edit ×					

## [White Balance]

Parameters	Function Introduction
White Balance	To restore white objects, removed color distortion caused by the light of the environment.
	Mode: General and Schedule are available.
	General Mode: Select a white balance mode as required
White Balance	<ul> <li>Auto White Balance: This option will automatically enable the White Balance function.</li> <li>Manual White Balance: Set Red Gain Level and Blue Gain Level manually.</li> <li>Incandescent Lamp: Select this option when light is similar with incandescent lamp.</li> <li>Warm Light Lamp: Select this option when light is similar with warm light lamp.</li> <li>Natural Light: Select this option when there is no other light but natura light.</li> <li>Fluorescent Lamp: Select this option when light is similar with</li> </ul>
	Fluorescent Lamp.
	Schedule Mode: Select this option that you can customize the schedule to enable/ disable above modes.
White Balance	Schedule Mode: Select this option that you can customize the schedule to enable/ disable above modes.
White Balance	Schedule Mode: Select this option that you can customize the schedule to enable/ disable above modes.
White Balance	Schedule Mode: Select this option that you can customize the schedule to enable/ disable above modes.
White Balance	Schedule Mode: Select this option that you can customize the schedule to enable/ disable above modes.
White Balance	Schedule Mode: Select this option that you can customize the schedule to enable/ disable above modes.

#### Table 15. Description of the buttons

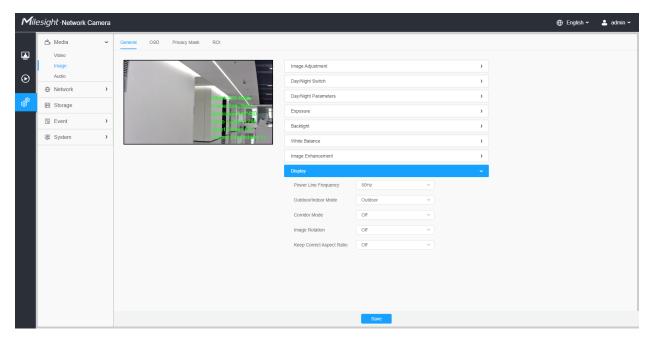
[Image Enhancement]



## Table 16. Description of the buttons

Parameters	Function Introduction
IR Balance Mode	There is an option to turn On/Off the IR LED. IR Balance Mode would avoid the problem of overexposure and darkness, and the IR LED will change according to the actual illumination.
Reduce Motion Blur	Enable this function to reduce the motion blur of objects effectively. You can adjust the deblur level from 1 to 100. <b>Note:</b> For more details about <b>Milesight Deblur</b> , you can click to the YouTube: https://www.youtube.com/watch?v=-vynrami51s

[Display]



Parameters	Function Introduction
Power Line Frequency	60Hz and 50Hz are available.
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. Off: Keep the image in normal direction.
Corridor Mode	Clockwise 90°: Rotate the image by 90° clockwise.
Image Rotation	There are four options available, you can select one to meet your need. Off: Keep the image in normal direction. Rotating 180°: Upside down the image. Flip Horizontal: Flip the image horizontally. Flip vertical: Flip the image vertically.
Keep Correct Aspect Ratio	With this option enabled, the camera will prevent the image from distortion when resolution ratio is changed.
Zoom Limit	Set the Zoom Limit.  Note: Only for the PTZ Network Camera with optical zoom of 20X or above.

Parameters	Function Introduction
White LED Level	Set the White LED Level to 1~100.
Smoked Dome Cover	This function is only for Pro Dome. If Pro Dome is equipped with a Smoked Dome Cover, enable this function to display a normal image.

#### 8.1.2.2 OSD

Miles	<i>ight</i> · Network	Camera								Download Plug-in	🌐 English 🗸	💄 admin 🗸
<b>I</b>	තී Media Video	ý	General	OSD	ROI							
	Image			AL.	- 1967. - 1967.	1025 JW 1921 3	Stream Infomation					
$\odot$	Audio	>				668 <u>Sept.</u> 5	Show Stream Information					
ø	E Storage				Bitrate: 15267	Blurate: 15267kbps	Video Stream	Primary Stream ~				
	5 Event	>		Annest .	Resolution-14	849 2 160	Regular					
	PTZ				Smark Sterent Current Core	CII Incloins-1	Font Size	Medium ~				
	System	>			P*40 T12 - 2001	74472991308	Font Color	۲				
							Background Color					
							Video Title					
							Show Video Title	C8241-X36PE				
							Text Position	Top-Left V				
								Top-cent +				
							Timestamp					
							Date Position	Top-Right ~				
							Date Format	DD/MM/YYYY ~				
							Copy to Other Streams	2				
							Save					

Table 18. Description of the buttons

Parameters	Function Introduction							
Show Stream Information	<image/>							
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.							
Background Color	<text><text></text></text>							
Show Video Title	Check the check box to show video title.							
Video Title	Customize the OSD content.							
Text Position	OSD display position on the image.							
Oh ann Time a staman	Obeel, the sheel have to display date on the image							
Show Timestamp	Check the checkbox to display date on the image.							

Parameters	Function Introduction
Date Format	The format of date.
Copy to Other Streams	Copy the settings to other streams.

#### 8.1.2.3 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.

#### [Privacy Mask]

Mil	<i>esight</i> ∙Network Ca	mera											🕀 English 🗸	💄 admin 🗸
<b>≞</b> ⊙	Media Video Image Audio	ř	General	OSD	Privacy Mask	ROI	Enable 🔽							
e e	<ul> <li>Network</li> <li>Storage</li> </ul>	>				Bitrate:328.1kbps Frame Rate:25fps	1D 1	Name Privacy Mask1	Type White	Enable	Operation			
	Event System	>			12	Resolution:640*480 Video Codec:H.264 Smart Stream:Off Current Connections:1								
			Type C Add	Mask			Delete Al							

You can select the color to use for the cover certain areas on the live video.

#### Bote:

• For the MS-Cxxxx-xPE model, up to 8 areas(mask + mosaic) are supported for each channel.

 Table 19. Description of the buttons

Parameters	Function Introduction
Enable	Check the check box to enable the Privacy Mask function.
Туре	Select the color to use for the privacy areas, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and Purple.
Add	Drew a privacy area on the live video as needed.

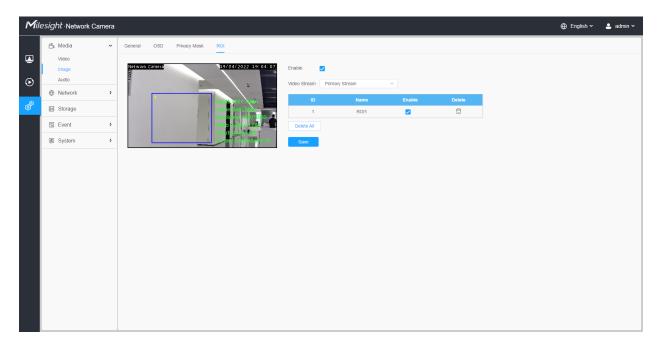
Parameters	Function Introduction					
Clear	Clear the area you drew on the live video.					
Delete All	Clear all areas you drew before.					

#### 8.1.2.4 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.

**Note:** For more details about how to set ROI, please refer to <u>https://</u>milesight.freshdesk.com/a/solutions/articles/69000643441.



#### Table 20. Description of the buttons

Parameters	Function Introduction						
Enable	Check the checkbo	x to enable the ROI function.					
Video Stream	Choose the Video S	Stream.					
ROI	🗆 , 🗹	Enable/disable the selected ROI areas.					
ROI	Ē	Delete the selected ROI areas.					
Delete All	Clear all areas you	drew before.					

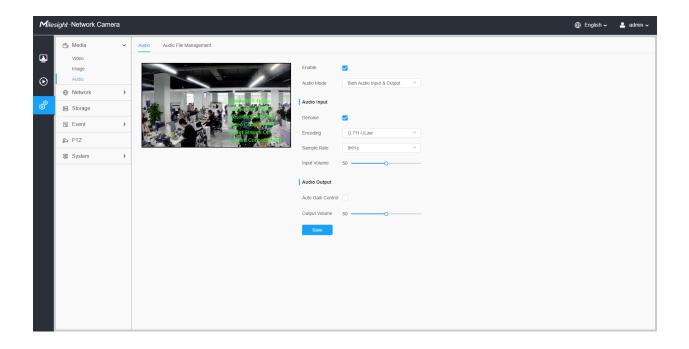
#### **B** Note:

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

## 8.1.3 Audio

#### 8.1.3.1 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.



#### Table 21. Description of the buttons

Parameters	Function Introduction
Enable	Check on the checkbox to enable audio feature.
Audio Mode	Audio Input/Audio Output/Both Audio Input & Output are optional.
Audio Input	<ul> <li>Denoise: Set it as On/Off. When you set the function on, the noise detected can be filtered.</li> <li>Encoding: G.711-ULaw, G.711-ALaw, AAC LC, G.722 and G.726 are available</li> <li>Audio Bit Rate: The function is available only for AAC LC, and supports up to 256kbps.</li> <li>Sample Rate: 8KHz, 16KHz, 32KHz, 44.1KHz, and 48KHz are available.</li> <li>Input Gain: Input audio gain level, 0-100.</li> </ul>
Audio Output	Auto Gain Control: This function is only for H.265 series, improve the quality of audio Output Volume: Adjust volume of output

#### 8.1.3.2 Auto File Management

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.

Mil	lesight ·Network	Camera			
	🖧 Media	Ý	Audio Audio File Man	nagement	
	Video Image		Audio File Storage Type	Flash	
⊙	Audio Network	>	Audio File	Flash	
ø	Storage		ID Aud	dio File Name	
	S Event	>		No Data	
	e loT	>	Add		
	System	>			

**Note:** 

- The Audio mode and Audio Output are only for certain modules.
- Only support '.wav' audio files with codec type PCM/PCMU/PCMA, 64kbps or 128 kbps and no more than 500k.
- Only support '.wav' audio files with codec type PCM/PCMU/PCMA, 64kbps or 128kbps bitrate and no more than 500k!

## 8.2 Network

8.2.1 Basic

8.2.1.1 TCP/IP

Miles	<i>ight</i> ·Network Camer	ra											\$ > Download Plug-	in (	🕀 English 🗸	💄 admin
	🛱 Media	>	тсрир нттр	RTSP	UPnP	DDNS	P2P Emai	FTF	,							
	Network	~	IPv4													
$\odot$	Basic Advanced			<ul> <li>Static</li> </ul>	O DH	CP										
3 <sup>0</sup>	E Storage		IP Address	192	. 168 .	71 . 133	Test									
<u></u>	S Event	>	IPv4 Subnet Mask	255	. 255 .	255 . 0										
	🔊 PTZ		IPv4 Default Gateway	192	. 168 .	71 . 1										
	🗟 System	>	Preferred DNS Server	8	. 8 .	8.8										
			IPv6													
			IPv6 Mode	Manua	1	×										
			IPv6 Address													
			IPv6 Prefix	0			(0~128)									
			IPv6 Default Gateway													
			MTU													
			MTU	1500	_		Bytes (1200~	1500)								
				Sav	2											

Table 22.	Descri	ption of	the	buttons
-----------	--------	----------	-----	---------

Parameters	Function Introduction
	<b>Type:</b> Static Type and DHCP Type are optional for user to get IPv4 address automatically or use fixed IP address.
	IPv4 Address: An address that used to identify a network camera on the network.
	<b>Note:</b> The <b>Test</b> button is used to test if the IP is conflicting.
IPv4	<b>IPv4 Subnet Mask:</b> 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 modes for IPv6: Manual/Route Advertisement/ DHCPv6
IPv6	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
мти	Maximum Transmission Unit. The default value is 1500. You can customize the value from 1200 to 1500 as needed.
Save	Save the configuration.

## 8.2.1.2 HTTP

Miles	<i>ight</i> Network Camera				Download Plug-in	⊕ English ∽	💄 admin 🗸
	🛱 Media 🔹 👌	TCP/IP HTTP	RTSP UPnP DDNS	P2P Email FTP			
•	Network     Basic	HTTP					
$\odot$	Advanced	Enable					
Ô	E Storage	Port	80	(1~65535)			
Q	S Event	HTTPS					
	₿> PTZ	Enable					
	System >	Port	443	(1~65535)			
	1314/unitras/Annov/Anno/Anno/Anno	Installed Certificate	C=US, HIP=IPC Awarded to: C=US, HIP=IPC Isaue: C=US, HIP=IPC Period 31 6774 2020 GMT ~ May 9 10:57-12 2022 GMT Create a Private Certificate Create Serve	Rest			

## Table 23. Description of the buttons

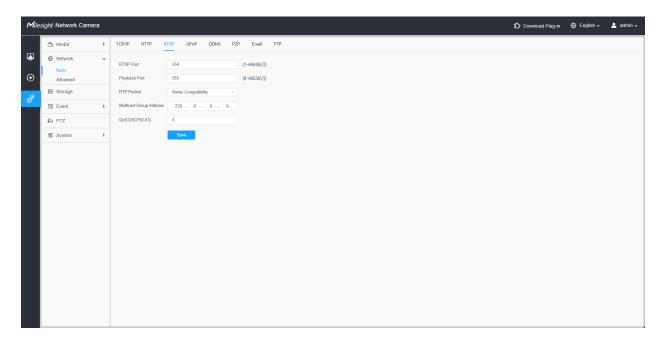
Parameters	Function Introduction							
НТТР	<b>Enable:</b> Start or stop using HTTP. <b>Port:</b> Web GUI login port, the default is 80, the same with ONVIF port.							
HTTPs	Enable: Start or stop using HTTPs. Port: Web GUI login port via HTTPS, the default is 443. Note: For more details about how to use enable HTTPS access, please refer to https://milesight.freshdesk.com/a/solutions/articles/69000797384.							
Installed Certificate Attributes Installation Type	Upload and set the SSL certificate.							
Save	Save the configuration.							



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

**Note:** You need to change the codec type of streams to MJPEG except the main stream of H.264 cameras whose models with "-A".

#### 8.2.1.3 RTSP



#### Table 25. Description of the buttons

Parameters	Function Introduction
RTSP Port	The port of RTSP, the default is 554.
Playback Port	Playback Port The port of playback, the default is 555.

Parameters	Function Introduction
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.
Save	Save the configuration.

#### Table 26. RTSP URL are as below:

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

#### Note:

- 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.
- A reboot is required for the settings to take effect.

#### 8.2.1.4 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.

<b>M</b> ile:	sight Network Cam	era						
	🛱 Media	>	тсрлр нттр	RTSP	UPnP D	IDNS F	2P Email	FTP
•	Network	~						
	Basic		Enable					
$\odot$	Advanced		Port Mapping					
e <sup>®</sup>	🗄 Storage		Enable Port Mapping					
- Q	Event	>	Name	UPnP				
	🔊 PTZ		Туре	Auto		~		
	System	>	Protocol Name		External Port		Internal Port	Status
			HTTP		21202	)	80	Invalid
			HTTPS		22202	]	443	Invalid
			RTSP		23202		554	Invalid
			Playback		25202	)	555	Invalid
			Save					
			Javo					

#### Table 27. 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	<ul> <li>Auto: Automatically obtain the corresponding HTTP and RTSP port, without any settings</li> <li>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</li> </ul>
Save	Save the configuration.

#### 8.2.1.5 DDNS

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

**Note:** For more details about how to set DDNS, please refer to <u>https://</u>milesight.freshdesk.com/a/solutions/articles/69000643406.

Miles	<i>sight</i> ∙Network Camer	a		Download Plug-in	🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	TCP/IP HTTP RTSP UPnP DONS P2P Email FTP			
<b>⊡</b> ⊙	<ul> <li>Network</li> <li>Basic</li> <li>Advanced</li> </ul>	~	Enable  O Provider  ddm milesight com  V			
¢ <sup>®</sup>	🗄 Storage		External HTTP Port 80 (1-65535)			
<b>O</b>	5 Event	>	Edemal RTSP Port 554 (1-65535)			
	🔊 PTZ		External Playback Port 555 (1-65536)			
	System	>	Status —- DDNS URL http://ddns.milesight.com/1CC316509C8B			
			Sure			

You can choose "ddns.milesight.com" as provider for DDNS. After enabling it, you can access the device via the URL "http://ddns.milesight.com/MAC address".

Table 28. Description of the buttons

Parameters	Function Introduction
Enable DDNS	Check the checkbox to enable DDNS service.  Note: Recommend to enable and configure UPnP ports which can be used directly in DDNS.
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".

Parameters	Function Introduction					
Host name	Host name DDNS name enabled in the account.					
Status	Status Display DDNS running status.					
Save	Save the configuration.					

#### Note:

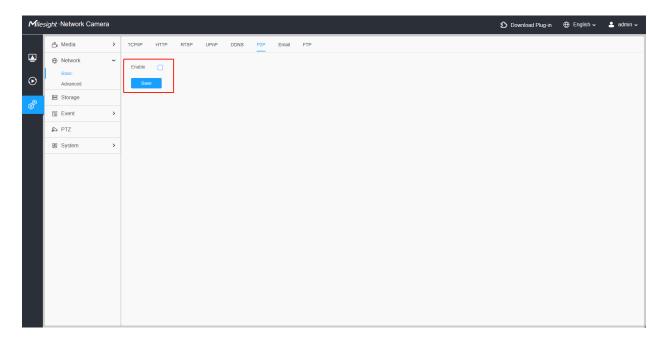
- Please do the Port Forwarding of HTTP Port and RTSP Port before you use Milesight DDNS.
- Make sure that the internal and the external port number of RTSP are the same.

#### 8.2.1.6 P2P

Peer-to-peer (P2P) protocols are network protocols that enable direct communication between nodes (peers) in a network, without requiring a central server or intermediary. These protocols are fundamental in various applications, including file sharing, distributed computing, and decentralized networks. Milesight camera supports P2P protocol, you can enable it within the Network interface.

You can enable P2P simply by ticking the checkbox.

**Note:** Before using P2P, please reach out to our support team to activate the P2P feature on our cloud.



#### 8.2.1.7 Email

Alarm video files can be sent to specific mail account through SMTP server. You must configure the email settings correctly before using it.

ht Network Camera												Download	l Plug-in	🌐 English 🗸	💄 ad	lmin ~
_	TCP/IP HTTP RTS	P UPnP DDNS P2P	Email	FTP												
Network     Basic	Enable															
Advanced	User Name	hdipne														
🗄 Storage	Sender Email Address	hdipnc@sina.com														
🖫 Event 💙	Password															
🔊 PTZ	Email Server	smtp.sina.com														
System >	Email Port		(1~65535)	)												
	Recipient Email Address1	user@domain.com														
	Recipient Email Address2															
	Encryption	None     SSL     TLS														
	Snapshot Settings															
	Alarm Snapshot File Name	YYYY-MM-DD ~														
	Timing Snapshot File Name	YYYY-MM-DD ~														
		Save Test														
	<ul> <li>Media</li> <li>Metorik</li> <li>Basic</li> <li>Advanced</li> <li>Storage</li> <li>E vent</li> <li>&gt; ↓</li> <li>PTZ</li> </ul>	Media  Media  TCP/IP HTTP RTS  Parameter  Sender Email Address  FTZ  System  PTZ  System  Recipient Email Address1  Recipient Email Address2  Encryston  I snaphot File Name  Alam Snaphot File Name	Media     >     TCPNP     HTTP     RTSP     UPuP     DDNS     P2P       P Network     Enable            Basic     Advanced     User Name     Indjon:         Storage     Sender Email Address     hdpredghna.com         Storage     Enable           PTZ     Email Server     untrp.sina.com         Recipient Email Address1     Encryption          Storage     >     Enail Address1     untrg.storad.com        Advanced     Enail Address2     Encryption         Atomsolity     Staphot Settings          Atomsolity     Staphot Settings	Media       >       TCP/IP       HTTP       RTSP       UPvP       DONS       P2P       Email         Network       Enable         Enable           Advanced       User Name       Indiproc (finite con)	Media       >       TCP/IP       HTTP       RTSP       UPnP       DDNS       P2P       Email       FTP         P Network        Enable             FTP         Basic        Enable	Media       >       TCPAP       HTTP       RTSP       UPAP       DONS       P2P       Email       FTP         Image: Contract of the strength of the strengt of the strength of the strengt of the strength of the s	Media       >       TCPAP       HTTP       RTSP       UPAP       DONS       P2P       Email       FTP         Image: Comparison of the second of	Media       >       TCPAP       HTP       RTSP       UPAP       DDNS       P2P       Email       FTP         Image: Comparison of the strength of the strengt of the strength of the strengt of the strengt of the s	Media       >       TCPNP       HTTP       RTSP       UPnP       DDNS       P2P       Email       FTP          Network, Basic          Enable          User Name        Indipoc          Storage        Sender Email Address        Indipoc   Email Pot	Media > TCPNP HTTP RTSP UPoP DDNS P2P Ennal FTP     P Network Ennale   Basic Luer Name Indjrc:   Storage Sender Enal Address Indjrc:   Storage Sender Enal Address Indjrc:   PTZ Enal Server Intgr sink com   Regient Enal Address1 Intgr sink com   Regient Enal Address2 Encryston   Encryston None   Status None   Status None   Nam Snapshot File Name YYY-MM-DD	Media         >         TCPAP         HTP         RTSP         UPAP         DDNS         P2P         Email         FTP           Detholic         Enable         Enable <th>Media         &gt;         TCP/IP         HTP         RTSP         UP/IP         DDNS         P2P         Email         FIP           Image: Control of the state of</th> <th>Media         N         TCPRIP         HTTP         RTSP         UPAP         DDNS         P2P         Email         FTP           Image: Contract Contender Contende Contract Contract Contende Contract Contende Cont</th> <th>Media         N         TCPAP         HTP         RTSP         UPAP         DDAS         P2P         Email         FIP           Method         Emails         Ende         Emails         FIP           Method         Emails         Emails         Emails         FIP           Bacic         Emails         Emails         Emails         Emails         Emails           Storage         Sender         Migne;         Emails         Emails         Emails         Emails           PTZ         Email Part         Sender         Sender         Sender         Emails         Emails</th> <th>Media         N         TCPIP         HTP         RTSP         UPuP         DDNS         P2P         Email         FTP           Method K         Enable         Enable<th>Modia         N         TCP/IP         HTTP         RTSP         UPP         DDNS         P2P         Email         FIP           Polynok         *         Enable</th></th>	Media         >         TCP/IP         HTP         RTSP         UP/IP         DDNS         P2P         Email         FIP           Image: Control of the state of	Media         N         TCPRIP         HTTP         RTSP         UPAP         DDNS         P2P         Email         FTP           Image: Contract Contender Contende Contract Contract Contende Contract Contende Cont	Media         N         TCPAP         HTP         RTSP         UPAP         DDAS         P2P         Email         FIP           Method         Emails         Ende         Emails         FIP           Method         Emails         Emails         Emails         FIP           Bacic         Emails         Emails         Emails         Emails         Emails           Storage         Sender         Migne;         Emails         Emails         Emails         Emails           PTZ         Email Part         Sender         Sender         Sender         Emails         Emails	Media         N         TCPIP         HTP         RTSP         UPuP         DDNS         P2P         Email         FTP           Method K         Enable         Enable <th>Modia         N         TCP/IP         HTTP         RTSP         UPP         DDNS         P2P         Email         FIP           Polynok         *         Enable</th>	Modia         N         TCP/IP         HTTP         RTSP         UPP         DDNS         P2P         Email         FIP           Polynok         *         Enable

#### Table 29. Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable Email function.
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.
Email Server	The email server IP address or host name(e.g. smtp.gmail.com).
Email Port	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.

Parameters	Function Introduction
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.
Snapshot Settings	Alarm Snapshot File Name: Default(YYYY-MM-DD) /MM-DD-YYYY/ DD- MM-YYYY/ Add prefix/ Overwrite with the base file name/ Customize are available. Timing Snapshot File Name: Default(YYYY-MM-DD) /MM-DD-YYYY/ DD- MM-YYYY/ Add prefix/ Overwrite with the base file name/ Customize are available.
Save	Save the configuration.
Test	Test whether the configuration is successful.

**Note:** You can refer to the following file name tip to customize the file name.

```
File Name Tip
&Device - Device Name
&Y - Year
&M - Month
&D - Day
&h - hour
&m - minute
&s - second
&ms - millisecond
&& - &
```

#### 8.2.1.8 FTP

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

Miles	sight ·Network Camera	1							బి Download Plug-in	🕀 English 🗸	💄 admin 🗸
	📸 Media	>	TCP/IP HTTP RTSP	P UPnP DDNS P2	2P	Email FTP					
<ul><li>▲</li><li>●</li></ul>	Network     Basic     Advanced	~	FTP Server Settings								
ø	🗄 Storage		FTP Туре	FTP O SFTP							
<b>B</b>	S Event	>	Server Address								
	😰 System	>	Server Port			(1~65535)					
			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	YYYY-MM-DD	~						
			Record Format	AVI	~						
				Save Test							

## Table 30. Description of the buttons

Parameters		Function Introduction					
	Enable	Check the checkbox to enable the FTP function.					
	FTP Type	FTP and SFTP are optional.					
FTP Server Settings	Server Address	FTP/SFTP server address.					
	Server Port	The port of the FTP server. Generally it is 21. The port of the SFTP server. Generally it is 22.					
	User Name	User name used to log in to the FTP/SFTP sever.					
	Password	User password.					
FTP Storage Settings	Storage Path	Storage Path where video and image will be uploaded to the FTP server. Four FTP storage path types are available, including Root Directory Parent Directory, Child Directory and Customize.					
	Parent Directory	Choose IP Address/ Device Name/ Date as the folder name of Parent Directory, or customize the folder name.					

Para	meters	Function Introduction
FTP Storage Settings	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.
FTP Storage	Video File Name	If you choose to customize the alarm action file name, YYYY-MM- DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.
Settings	Image File Name	If you choose to customize the alarm action file name, YYYY-MM- DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.
	Timing Snapshot File Name	Default(YYYY-MM-DD) /MM-DD-YYYY/ DD-MM-YYYY/ Add prefix/ Overwrite with the base file name are available.
	Pre Second	Reserve the record time before alarm, 0~10 sec.
	Record Format	AVI and MP4 are optional.
	Save	Save the configuration, 0s ~ 10s are optional.
	Test	Test whether the configuration is successful.

### Note:

- Parent Directory will be under Root Directory, and Child Directory will be under Parent Directory.
- You can refer to the following file name tip to customize the file name.

## 8.2.2 Advanced

### 8.2.2.1 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.

Mile	esight ·Network Camer	a		Download Plug-in	🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	VLAN PPPoE SNMP 802.1x Bonjour LLDP RTMP SIP VPN More			
<ul><li>▲</li></ul>	Network     Basic     Advanced	~	Enable VLAN ID 1 (1-4094)			
Ô	E Storage		VLANIP			
হ	5 Event	>	VLAN Netmask			
	😨 System	>	VLAN Gateway			
			Sire			

**Note:** About how to set up VLAN in switches, please refers to your switches user manual.

### 8.2.2.2 PPPoE

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

Mile	sight ·Network Camer	a										Download Plug-in	🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	VLAN PPPOE	SNMP	802.1x	Bonjour	LLDP	RTMP	SIP	VPN	More			
	Network	~	Enable											
$\odot$	Basic Advanced		Dynamic IP											
ø	🗄 Storage		User Name											
ţ.	Event	>	Password											
	😨 System	>	Confirm Password											
			Save											
		_												

Note:

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

### 8.2.2.3 SNMP

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

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

Miles	<i>sight</i> ·Network Camera	a			Download Plug-in	🕀 English 🗸	💄 admin 🗸
	📇 Media	>	LAN PPPoE SNMP 802.1x Bonjour LLDP F	TMP SIP VPN More			
<ul><li>▲</li></ul>	Network     Basic     Advanced	~	SNMP V1/V2 Enable SNMP V1				
¢ <sup>®</sup>	Storage		Enable SNMP V2c				
	Event	>	Read Community public				
	😰 System	>	Write Community private				
			SNMP V3 Enable SNMP V3				
			Read Security Name				
			Level of Security no auth, no priv V				
			Level of Security no auth, no priv Y				
			SNMP Port				
			SNMP Port 161 (1~65535)				
			Save				

### Table 31. Description of the buttons

Parameters	Function Introduction
SNMP v1/v2	The version of SNMP, please select the version of your SNMP software. Enable SNMP v1: Provide no security. Enable SNMP v2: Require password for access. Write Community: Input the name of Write Community. Read Community: Input the name of Read Community
SNMP v3	<ul> <li>Enable SNMP v3: Provide encryption and the HTTPS protocol must be enabled.</li> <li>Read Security Name: Input the name of Read Security Community.</li> <li>Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv).</li> <li>Write Security Name: Input the name of Write Security Community.</li> <li>Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv).</li> </ul>
SNMP Port	The port of SNMP, the default is 161.
Save	Save the configuration.



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

### 8.2.2.4 802.1x

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.

Milesi	ight Network Camera	а												Download Plug-in	🕀 English 🗸	💄 admin 🗸
	🚔 Media	>	VLAN PPPoE	SNMP	802.1x	Bonjour	LLDP	RTMP	SIP	VPN	More					
<ul><li>▲</li></ul>	Network Basic Advanced	~	Enable Protocol	EAP-MD5		~										
¢°	🗄 Storage		Eapol Version			~										
©.	5 Event	>	User Name													
	System	>	Password													
			Confirm Password													

### Table 32. Description the Buttons

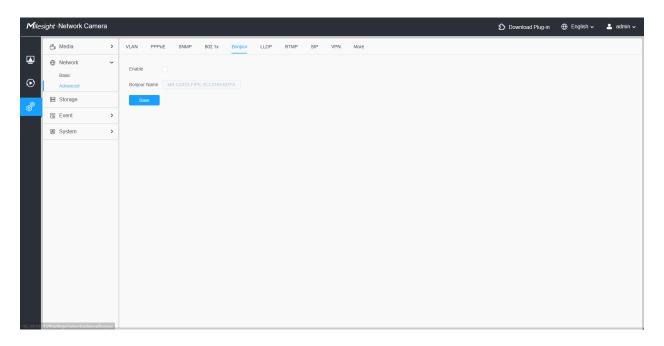
Pa	arameters	Function Introduction
	Enable	Start or stop using 802.1x certification.
	Protocol	Choose the protocol, EAP-MD5 and EAP-TLS are available.
	Eapol Version	This version number helps ensure compatibility between devices implementing different versions of the EAPOL protocol. Version 1 and version 2 can be chosen.
	User Name	EAP-MD5 encryption account name.
EAP-MD5	Password	EAP-MD5 encryption account password.
	Confirm Password	Re-enter the EAP-MD5 encryption account password.

Pa	arameters	Function Introduction
	Identify	EAP-TLS encryption account name. <b>Note:</b> Please insert letters/digits/space/other standard characters, and make sure the amount of identify not more than 32.
	Eapol Version	Version 1 and version 2 can be chosen.
	Client Certificate	Upload and set the client certificate.
EAP-TLS	Private Key	The key certificate in the client certificate.
	Private-key Password	Enter the password of the client certificate  Note:  Please insert letters/digits/other standard characters, and make sure the amount of password not more than 32
	CA Certificate	Upload and set the CA certificate.

### 8.2.2.5 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.



### 8.2.2.6 LLDP

The Link Layer Discovery Protocol (LLDP) is a standardized network discovery protocol used by network devices to advertise their identity, capabilities, and neighbors on a local area network (LAN). It operates at the data link layer (Layer 2) of the OSI model. LLDP is defined by the IEEE 802.1AB standard. By using this protocol, devices can automatically discover and understand each other's presence and capabilities, which simplifies network management and configuration.

Once the LLDP protocol is enabled, you can obtain the camera's information on your switch that supports the LLDP protocol.

Mile.	sight ·Network Camera	1											Download Plug-in     Download Plu	🕀 English 🗸	💄 admin 🗸
	😷 Media	>	VLAN	PPP0E	SNMP	802.1x	Bonjour	LLDP	RTMP	SIP	VPN	More			
•	Network	~	Enable												
$\odot$	Basic Advanced		Sa	ive											
<u>ه.</u>	🗄 Storage														
¢	Event	>													
	🕲 System	>													

### 8.2.2.7 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.

Miles	sight ·Network Camera		2 Download Plug-in	🕀 English 🗸	💄 admin 🗸
	🖆 Media	VLAN PPPoE SNMP 802.1x Bonjour LLDP RTMP SIP VPN More			
<b>⊥</b> ⊙	Network     Basic     Advanced	Enable Stream Type Primary Stream			
ø	Storage	Server Address			
Ø	5 Event	Save			
	🕃 System				

Note:

- 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.
- For RTMP, since G.711 is not available for YouTube, so you can only play video from Milesight Network Camera with H.264 video coding and AAC audio coding on YouTube.
- Server Address in Network Camera RTMP interface needs to be filled with the format: rtmp://< Server URL >/< Stream key >, remember it needs '/'to connect between < Server URL > and < Stream key >.
- RTMP function is only supported on MS-Cxxxx-PA models.
- For more details about how to use RTMP for live broadcast, please refer to <u>https://</u> milesight.freshdesk.com/a/solutions/articles/69000643313.

### 8.2.2.8 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 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.

**Note:** For more details about how to use SIP, please refer to <u>https://</u>milesight.freshdesk.com/a/solutions/articles/69000643391.

<b>M</b> ile.	sight ·Network Camera	1		Download Plug-in	🕀 English 🗸	💄 admin 🗸
	😤 Media	>	VLAN PPPOE SNMP 802.1x Bonjour LLDP RTMP SIP VPN More			
	Network     Basic	~	SIP Settings >			
$\odot$	Advanced		Alarm Phone List			
ô	Storage		White List			
~	S Event	>	Save			
	😰 System	>				

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

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

### [SIP Settings]

Server Address	192.168.5.101		
Server Address Server Port	192.168.5.101 5060		(1~65535)
		~	(1~65535)
Server Port	5060	~	(1~65535)
Server Port	5060	~	(1~65535)
Server Port	5060	~	(1~65535)
Server Port	5060	~	(1~65535)
Server Port	5060		(1~65535)
			(1~65535)
			(1~65535)
Server Address	192.168.5.101		
assword	*****		
SCI NULLC	Siperiett		
lser Name	sipclient		
ser ID	500		
egister Mode			

## Table 33. Description of the buttons

Parameters	Function Introduction
Enable	Start or stop using SIP.  Note: SIP supports Direct IP call.
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	Server IP address.

Parameters	Function Introduction
Server Port	Server port.
Connection Protocol	UDP/TCP.
Video Stream	Choose the video stream.
Enable Audio in SIP Call	Enable/disable audio in SIP call.
Max Call Duration	The max call duration when use SIP.
Status	SIP registration status. Display "Unregistered" or "Registered" .

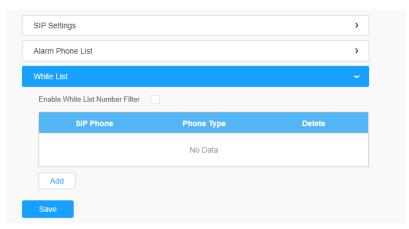
## [Alarm Phone List]

SIP Settings				>
Alarm Phone List				~
SIP Phone	Phone Type	Remark Name	Duration	Delete
		No Data		
Add				
White List				>

## Table 34. Description of the buttons

Parameters	Function Introduction
Add	<ul> <li>Add alarm phone to the camera.</li> <li>Phone Type: Phone Number(Call by phone number) &amp; Direct IP Call(Check to accept peer to peer IP call).</li> <li>To Phone Number/IP Address: Call by phone number or IP address.</li> <li>Remark Name: Display name.</li> <li>Duration: The time schedule to use SIP.</li> </ul>
	Delete the selected alarm phone.
Delete All	Delete all added alarm phone.

### [White List]



#### Table 35. Description of the buttons

Parameters	Function Introduction
Enable White List Number Filter	When enabled, only the designated phone number or IP address can visit
Add	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.

### 8.2.2.8 VPN

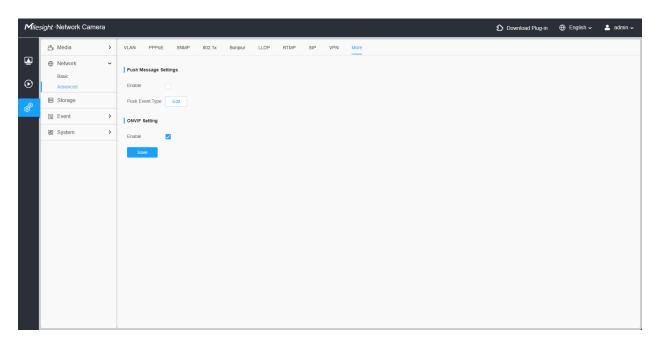
VPN stands for Virtual Private Network. It is a network protocol that can provide you secure encrypted connection over the public internet. It is a significant technology in surveillance industry. Imagine that you have a network camera connected via public IP address, it's possible for others to log in or listen illegally if someone knows the specific IP address and forwarded port. Via VPN the camera streams and data will be transferred through an encrypted tunnel. This encrypted VPN tunnel makes it appear as though you are directly connected to the private network, keeping your online activity (including your browsing history) hidden. For Milesight camera, VPN feature allows us to log in the camera via a virtual IP, which makes it easier to configure the camera remotely.

For more details about **How to use VPN on Milesight Camera**, please refer to <u>https://milesight.freshdesk.com/support/solutions/articles/69000829102-how-to-use-vpn-on-milesight-network-camera</u>.

Mile	sight ·Network Camera			ည် Download Plug-in	🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	VLAN PPPoE SNMP 802.1x Bonjour LLDP RTMP SIP VPN More			
<b>⊡</b> ⊙	Network Basic	*	VPN Setting VPN Mode General VPN			
	Advanced Storage		OpenVPN configuration file Diagonal Dependence of the Dependence o			
¢	S Event	>	Connect			
	😨 System	>	VPN Status			
			Status Disconnected			
			Local IP			
			Remote IP			
			Duration -			

### 8.2.2.10 More

Here you can set more functions, like Push Message Settings and ONVIF Settings.



### Table 36. Description of the buttons

Parameters	Function Introduction
	Enable: Enable/disable the Push Message function         Push Event Type: You can click         message which will be pushed to M-sight Pro App as shown below:
	Edit ×
Push Message Settings	Push Event Type         All         Motion Detection       Image: Audio Alarm         Region Entrance       Region Exiting         Lothering       Advanced Motion Detection         People Counting       Object Left/Removed
	Save Cancel
ONVIF Setting	Here you can choose whether to enable or disable camera ONVIF function. If camera ONVIF function is enabled, it can be searched out, added and connected by third-party software through ONVIF protocols. Generally, the default status of ONVIF function is enabled.

# 8.3 Storage

# 8.3.1 Storage Management

Mile:	sight ·Network Camera	a		Download Plug-in	🕀 English 🗸	💄 admin 🗸
	😤 Media	>	Storage Management Record Settings Snapshot Settings Explorer			
	Network	>	SD Card			
$\odot$	🗃 Storage		100%) 227.48G/227.48G			
	Event	>	File System EXT4			
ø	😰 System	>	Remove Format			
			SD Card Encryption			
			Encryption Status Unencrypted			
			Authentication Status -			
			Password+			
			Confirm Password+			
			Set			
			NAS			
			No. Server Address Directory Mounting Type Total Free User Name Status Encryption Status Operatio	•		
			No Data			
			Add			

- Insert the SD card into the SD card slot of the device. After that, it will be automatically detected , and the detailed information of the SD card will be displayed on the SD Card bar.
- In the SD card bar, you can click on Remove to remove

to remove the SD card or click on

Format to format the SD card and clear all files on it. It supports two file system formats including EXT4 and FAT32, and EXT4 is recommended to prevent data loss during card ejection or power failure, while FAT32 offers better compatibility for Operating systems.

Miles	<i>sight</i> ·Network Camera			Download Plug-in	🕀 English 🗸	💄 admin 🗸
		>	Storage Management Record Settings Snapshot Settings Explorer			
	Network     Storage	>	SD Card			
폐		¥	C6.58G/110.48G			
¢	Al Application Options Basic Event Face Detection		Remove Format SD Card Encryption			
		>	Encryption Status Unencrypted SD Card Formatting × Authentication Status - Please select the SD card formatting type:			
			Password+ EXT4 PAT32 EXT4 is recommended to prevent data loss during card ejection or power falare,			
			Contim Password- while FATS2 offers better compatibility for Operating systems.  Set Confirm Cancel			
			NAS	_		
			No. Server Address Directory Mounting Type Total Free User Name Status Encryption Status Operation No Data	on and a second s		
			Add			

#### Table 37. Description of the buttons

Parameters	Function Introduction
	Format: Format SD card, the files in SD card will be removed.
SD Card	Remove: Remove SD card.

Parameters	Function Introduction
	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.
	Add ×
	Server Address*
	Directory* Mounting Type NFS
Nas	Save Cancel
	Server Address: IP address of NAS server.
	<b>Directory:</b> Input the NAS directory, e.g. "\path". <b>Mounting Type:</b> NFS and SMB/CIFS are available. And you can set the user
	name and password to guarantee the security if SMB/CIFS is selected.
	<ul> <li>Note:</li> <li>Up to 5 NAS disks can be connected to the camera.</li> <li>For more details about how to use NAS on Milesight Network Camera, please refer to <u>https://milesight.freshdesk.com/a/solutions/</u> articles/69000797902.</li> </ul>

8.3.2 Record Settings

Miles	sight Network Camera		🕀 English 🗸	💄 admin 🗸
	🐴 Media 🔹 👌	Storage Management Record Settings Snapshot Settings Explorer		
• •	Network      Sasic     Advanced	Storage Settings Enable Recycle Storage 🕑		
ø	😫 Storage	Stream Type Primary Stream (Please enable the corresponding stream video.)		
\$ [	S Event >	Pre-record Primary Stream		
	🔊 PTZ	Secondary Stream		
	₿ System >	0 2 4 6 8 10 12 14 15 18 20 22 24		
		Sun Mon Tue Wed Fit Sat Setect All Clear All		

Table 38.	Descri	ption 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 reaches a certain value.					
Stream Type	Select the Stream type, including Primary Stream and Secondary Stream.          Image: Note: please enable the corresponding stream video.					
Pre Second	Reserve the record time before alarm, 0~10 sec.					
Schedule Settings	Edit record schedule as needed. Intuitive scheduling by drawing the time bar directly.					

Parameters	Function Introdu	iction
Schedule Settings	Copy To × All Sun. Mon. Tue. Wed. Thu. Fri. Sat. Save	Copy the schedule area to another date. The "All" button is handy to copy today's schedule to all days.
	Select All	Select all schedule.
	Clear All	Clear all schedule.
Save	Save the configuration.	

**Note:** SD Card or NAS are available.

# 8.3.3 Snapshot Settings

Table 39.	Descripti	ion of th	e buttons

Parameters	Function Introduction
	Enable Timing Snapshot: Check the checkbox to enable the Timing Snapshot function
	<b>Interval:</b> 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.
Snapshot Settings	Upload Via FTP: Upload the snapshots via FTP.
	Upload Via Email: Upload the snapshots via Email.
	<b>Note:</b> If you choose to add time suffix, every snapshot picture will be saved, but if you choose to overwrite the base file name, only one latest picture will be saved. When you choose add overwrite the base file name to SD Card or NAS, it will create a file named "Snapshot" to place the snapshot.
	<b>HTTP Post:</b> Upload the snapshots via HTTP Post. Support uploading the snapshots to specified HTTP URL.

Parameters		Function Introduction				
Schedule Settings	Schedule Settings	Is needed. Intuitive scheduling by drawing the time bar directly.				
Schedule Settings	Select All	Select all schedule.				
	Clear All	Clear all schedule.				
Save	Save the configuration	l.				

# 8.3.4 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.



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

2. A red icon will appear under the corresponding date when there is a recording or snapshot exists for that day, allowing you to swiftly discern which dates possess files.

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.).

🖧 Media	>	Storage Mana	gement Record Settings Snar	shot Settings Explorer			
Network	>	1 Main Type	Record V Sub Type	All Start Tim	e 🕓 2024/11/14 (0:00:00 End Time 🕓 2024/11/14	23:50:50	2 Search
😸 Storage			File Name	Start Time	2024/11/14 00:00:00		
S Event	>		File Name 120241114115249.mp4	2024-11-14 11:52:49		Type	Size 597.32K
😰 System	~		120241114115250.mp4	2024-11-14 11:52:50	« < 2024 November > »	Timing	249.21M
	, in the second se		120241114120105.mp4	2024-11-14 12:01:05	Sun Mon Tue Wed Thu Fri Sat	Timing	249.72M
System Setting			120241114120920.mp4	2024-11-14 12:09:20	27 28 29 30 31 <b>1 2</b>	Timing	249.70M
Security			120241114121733.mp4	2024-11-14 12:17:33	3 4 5 6 7 8 9	Timing	249.72M
Maintenance			120241114122548.mp4	2024-11-14 12:25:48	10 11 12 13 15 16	Timing	249.71M
			120241114123400.mp4	2024-11-14 12:34:00	17 18 19 20 21 22 23	Timing	249.72M
			120241114124213.mp4	2024-11-14 12:42:13		Timing	249.74M
			120241114125025.mp4	2024-11-14 12:50:25	24 25 26 27 28 29 30	Timing	249.71M
			120241114125837.mp4	2024-11-14 12:58:37	1 2 3 4 5 6 7	Timing	249.73M
			120241114130702.mp4	2024-11-14 13:07:02	Now OK	Timing	241.56M
			220241114131507.mp4	2024-11-14 13:15:07	2024-11-14 13:15:10	Alarm	1.71M
			120241114131511.mp4	2024-11-14 13:15:11	2024-11-14 13:15:22	Timing	5.78M
			120241114131522.mp4	2024-11-14 13:15:22	2024-11-14 13:23:34	Timing	249.72M
			120241114132334.mp4	2024-11-14 13:23:34	2024-11-14 13:31:46	Timing	249.39M
			120241114132334.mp4	2024-11-14 13:31:46	2024-11-14 13:40:02	Timing	249.72M
			120241114134002.mp4	2024-11-14 13:40:02	2024-11-14 13:48:14	Timing	249.70M
			120241114104002.mp4	2024-11-14 10.40.02	2024-11-14 10.40.14	Total 71 30/page V < 1	2 3 > Go to 1
						John Provide State	

# 8.4 Event

Milesight The event provides advanced, accurate smart video analytics for Milesight network cameras. It enhances the performance of network cameras through basic events and VCA events, enabling a comprehensive surveillance system and quicker response of cameras to different monitoring scenes.

### Note:

- 1. Face Detection cannot be utilized concurrently with VCA Event and Object Counting.
- 2. Before you utilizing the corresponding function, please enable it within the AI Application Options interface.

Mile	sight Network Camera						₺ Download Plug-in	🕀 English 🗸	💄 admin 🗸
	🖧 Media እ	•	AI Application Options						
	Network	,							
$\odot$	🗄 Storage								
	🗟 Event 🗸				<b>_</b>				
ø	Al Application Options Basic Event Face Detection		VCA Event	Object Counting	Z Face Detection				
	s> PTZ		Save						
	🖉 System 🔉	,							

# 8.4.1 Basic Event

### 8.4.1.1 Motion Detection

Mile	sight Network Camera		ঠ Download Plug-in	⊕ English ∽	💄 admin 🗸
•		Motion Detection         Audio Alarm         Tamper Detection         External Input         External Output         Exception           Image: State of the Control of			
ð	Event ~ Al Application Options Basic Event Face Detection	Basic Settings > Schedule Settings > Schedule Settings > Atam Action >			
	System	Current Conhistions 1 Save			

**Note:** For more details about how to set motion detection, please refer to <u>https://</u>milesight.freshdesk.com/a/solutions/articles/69000643423.

Settings steps are shown as follows:

**Step1:** Check the check box to enable the motion detection.

Step2: Check the check box to enable the motion analysis.

Step3: Select the detection mode;

Step4: Set motion region;

Table 40. Description of the buttons

Parameters	Function Introduction
Enable Detection	Check the checkbox to enable Motion Detection function.
Enable Motion Analysis	When Motion Analysis is enabled, the moving region will turn yellow so that the user can know exactly where the motion occurred.
Select All	Click the button, the motion in the area will be detected.
Clear All	Click the button, the area drawn before will be removed.
Save	Save the configuration.

### [Basic Settings]

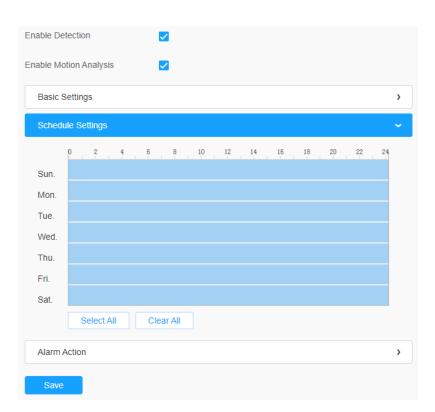
Enable Detection		
Enable Motion Analysis		
Basic Settings		~
Mode	Normal Mode      Advanced Mode	
Sensitivity	9O	
Onvif Motion ActiveCells Settings	Normal	
Schedule Settings		>
Alarm Action		>
Save		

### Table 41. Description of the buttons

Parameters	Function Introduction
Detection Mode	Normal Mode and Advanced Mode are available for the option. When Advanced Mode is selected, users can configure up to 4 detection regions and sensitivity for each detection region.
Sensitivity	Sensitivity level, 1~10
Onvif Motion ActiveCells Settings	Normal and Compatible are available for the option. If the setting of motion region of the third-party software is different from ours, please set this option to Compatible

### [Schedule Settings]

Step5: Set motion detection schedule.



### Table 42. Description of the buttons

Parameters	Function Introduction
Copy To × All Sun. Mon. Z Tue. Wed. Thu. Fri. Z Sat. Save	Copy the schedule area to another date. The "All" button is handy to copy today's schedule to all days.
Select All	Select all schedule.
Clear All	Clear all schedule.

### [Alarm Action]

Step6: Set alarm action;

Enable Detecti	on 🔽					
Enable Motion	Analysis 🗸					
Basic Settings						
Schedule S	ettings		>			
Alarm Actio	n		~			
	Record	>				
	Snapshot	>				
	External Output	>				
	Play Audio (Please enable the Audio Speaker.)					
	Alarm to SIP Phone (Please open the SIP.)					
	HTTP Notification	>				
Save						

Table 43. Description of the buttons

Parameters	Function Introduction				
Record	<ul> <li>Duration: Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available.</li> <li>Linkage: Save alarm recording files into SD Card or NAS or Upload the recording files via FTP.</li> </ul>				
Snapshot	<ul> <li>Number: The number of snapshot, 1~5 are available.</li> <li>Interval: This cannot be edited unless you choose more than 1 to Snapshot.</li> <li>Linkage: Save alarm recording files into SD Card or NAS, Upload the recording files via FTP and send alarm email.</li> </ul>				
External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration. Action Time: Customize/10 seconds/30 seconds/1 minute/5 minutes/Constant are available.				
Play Audio	Auto/10 seconds/30 seconds/1 minute/5 minutes/10 minutes are available.  Note: Please enable the Audio Speaker.				
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.				

Parameters	Function Introduction
HTTP Notification	<ul> <li>Support to pop up the alarm news to specified HTTP URL.</li> <li>Note:</li> <li>Three HTTP notifications at most can be added to the same event.</li> <li>HTTP Notification supports Basic &amp; Digest authentication</li> </ul>
White LED	When the alarm triggered, White LED will turn on to warn the detected objects.
PTZ Motion	When the motion alarm triggered, PTZ Motion allows the camera move the lens to the motion triggered position and zoom in.  Note: Only for PTZ series.
Call Preset/ Call Patrol/Call Pattern (Only for External Input)	When the motion alarm triggered, the specified preset/patrol/pattern can be called.           Image: Note:         Only for PTZ series.

### 8.4.1.2 Audio Alarm

Check the check box to enable the Audio Alarm function.

**Note:** Enable the Audio Mic before using Audio Alarm function.

Mile	<i>sight</i> ·Network Camera		Download Plug-in	🕀 English 🗸	💄 admin 🗸
	🛱 Media 🔹	Motion Detection Aurm Tamper Detection External Input External Output Exception			
•	Network     Network	(Please enable the Audio Mic.)			
$\odot$	Storage	Basic Settings			
	🖫 Event 🖌	Schedule Settings			
ø	Al Application Options Basic Event	Aam Action >			
	Face Detection	Save			
	🔊 PTZ	A starting and the second starting of the second starting			
	System >				

### [Basic Settings]

### Table 44. Description of the buttons

Parameters	Function Introduction
Alarm Threshold	Audio Alarm will be triggered when the thresholds reaches to a certain value from 0 to 100.
Audio Sample Value	The current value of the audio sample.

### [Schedule Settings]

Refer to the table <u>Table 3 (page 96)</u> for the meanings of the items, here will not repeat again.

### [Alarm Action]

Refer to the table <u>Table 4 (page 97)</u> for the meanings of the items, here will not repeat again.

### 8.4.1.3 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 abovementioned actions occur.

Mile	<i>sight</i> ∙Network Camera		Download Plug-in	🌐 English 🗸	💄 admin 🗸
	🖧 Media 🔹	Motion Detection Audio Alarm Tamper Detection External Input External Output Exception			
•	Network	Enable Detection			
$\odot$	Storage	Basic Settings 🗸			
_ <b>î</b> î	Event      Al Application Options	Sensitivity 6			
¢	Basic Event	Schedule Settings			
	VCA Event Object Counting	Alarm Action			
	🔊 PTZ	Save			
	🕼 System 🔹	3			

<b>M</b> ile.	sight ·Network Camera							2 Download Plug-in	🌐 English 🗸	💄 admin 🗸
	🖆 Media 🔉	Motion Detection	Audio Alarm	Tamper Detection	External Input	External Output	Exception			
•	Network >	Enable Detection								
$\odot$	E Storage	Basic Settings								
¢®	© Event ✓		6 —							
Ø	Al Application Options Basic Event	Schedule Settin	ngs			>				
	VCA Event Object Counting	Alarm Action				>				
	🔊 PTZ	Save								
	System >									

Settings steps are shown as follows:

Step1: Enable Tamper Detection.

Enable Detection		
Basic Settings	>	
Schedule Settings	>	
Alarm Action	>	
Save		
Detection Settings		~
Enable Detection		
Sensitivity	6O	
Schedule Settings		>
Alarm Action		>

### [Schedule Settings]

Step2: Set detection schedule.

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.2</u> <u>Region Entrance (*page 109*)</u>.

### [Alarm Action]

Step3: Set alarm action.

### Note:

- This part is the same as the regular alarm settings. You can refer to <u>8.4.2.1 Intrusion</u> <u>Detection (page 107)</u>.
- If you enable External Output and choose Constant External Output Action Time, when possible tampering is detected, External Output Action alarm time will be always constant till the alarm is released.
- The algorithm supports defocus detection in Tamper Detection function.

### 8.4.1.4 External Input

work Camera								Download Plug-in	🌐 English 🗸	
ledia	<b>&gt;</b> M	otion Detection	Audio Alarm	Tamper Detection	External Input	External Output	Exception			
etwork	>	External Input	1	~						
torage		Enable External Inj								
	~	Schedule Settin	ngs			>				
Application Options		Alarm Action				>				
ce Detection		Save								
Z										
rstem	>									

Refer to the table <u>Table 3 (page 96)</u> for the meanings of the items, here will not repeat again.

### 8.4.1.5 External Output

Milesi	<i>ight</i> ∙Network Camera		Download Plug-in	🌐 English 🗸	💄 admin 🗸
	🛱 Media 🔹	Motion Detection Audio Alarm Tamper Detection External Input External Output Exception			
	Network	Normal Status Settings			
$\odot$	E Storage	External Output 1: Open Orounded			
	5 Event 🗸				
¢ <sup>®</sup>	Al Application Options Basic Event	External Output2: O Open Grounded			
	Face Detection	Current Status2: Open			
	S PTZ	Manual External Output			
	System >	Manual Output 1: Start			
		External Output1 Action Time: Customize ~			
		0 (1-999)			
		Manual Output2: Start			
		External Output2 Action Time: Customize v			
		0 s(1-999)			
		Save			

### [Normal Status Settings]

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

### [Manual External Output]

You can set the manual external output.

### Table 45. Description of the buttons

Parameters	Function Introduction
Manual Output	Click to Start/Stop manual external output.
External Output Action Time	Manual Control/Customize/10 s/1 min./5 min./10 min. are available.

### 8.4.1.6 Exception

#### Table 46. Description of the buttons

Parameters	Function Introduction				
Alarm Type	Network Disconnected, IP Address Conflicted, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error and No SD Card are available Check the checkbox to enable the alarm type you selected				
Alarm Action	Refer to the table <u>Table 3 (page 96)</u> for the meanings of the items, here will not repeat again.				

## 8.4.2 VCA Event

Smart Event uses VCA (Video Content Analysis) technology, which provides advanced, accurate smart video analysis for Milesight network cameras. Powered by AI chip,the new generation video analytics is capable of recognizing vast attributes of human, vehicle, and object pattern recognition models. As vehicle and human related events are is very important in security monitoring, the filtering is supported to better optimize the efficiency.

### Note:

• For more details about how to use set VCA solution, please refer to <u>https://</u> milesight.freshdesk.com/a/solutions/articles/69000643371. • For more details about the Milesight AI Video Content Analysis information, please refer to <u>https://resource.milesight.com/milesight/security/document/a-milesight-technology-moment/a-milesight-technology-moment-milesight-vca.pdf</u>

### 8.4.2.1 Intrusion Detection

Intrusion detection is used to protect a specific area from potential threats of intrusion by suspicious people or other objects. Whether it is an intrusion from outside the region or a sudden appearance within the region, an alarm action will be triggered.

Mile:	<i>ight</i> ∙Network Camera											ঠ Download Plug-in	⊕ English ∽	💄 admin 🗸
	<ul> <li>B Media</li> <li>→</li> <li>→</li> <li>→</li> <li>Media</li> <li>→</li> </ul>		Intrusion Detection Region Entrance Region Exiting Advanced M			Notion Detection		Loitering	Object Left/Removed					
⊙	Storage		Central Settings											
ø	Al Application Options Basic Event VCA Event		Bitrate: 17479kbps Frams-Rate: 21fps Resolution: 35647160 Video Codec 17264	Schedule Setting Alarm Action	<b>j</b> S			>						
	Object Counting	Clear	Smart Stream; Oil Current Connections; 1		Save									
	🖲 System >													

Settings steps are shown as follows:

### [Detection Settings]

**Note:** General Settings will take effect in all detection regions/lines!

**Step1:** Selected effective region including Normal and Advanced.

Normal mode is effective for all detection areas.

Advanced methods will work in specific fields of view and require setting a preset.

**Step2:** Selected detection region and enable intrusion detection.

**Step3:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events.

	Detection Settings ~
Detection Settings 🗸	Effective Region O Normal O Advanced
Effective Region O Normal O Advanced	Effective with Preset 4
Region 1 2 3 4	Region 1 2 3 4
Enable Detection	Enable Detection
Detection Object 🔽 Human 🗹 Vehicle	Detection Object 🔽 Human 🗹 Vehicle
Note: Please draw on the video to set Detection Regions/LinesI	Note: Please draw on the video to set Detection Regions/Lines!
General Settings	General Settings
Schedule Settings	Schedule Settings
Alarm Action	Alarm Action
Save	Save

### [General Settings]

**Step4:** Set detecting sensitivity and object size limits, and set the trigger mode with General Mode or Bottom Mode.

General Settings			~			
Min. Intrusion Duration	0 0	s(0~10)				
Sensitivity	50					
Trigger Mode	Bottom Mode	~				
Object Size Filter						
Edit						
Min. Size     Max. Size						
Note: Please draw on the video to set Detection Regions/Lines!						
Schedule Settings			>			
Alarm Action			>			

### Table 47. Description of the buttons

Parameters	Function Introduction
Min.Intrusion Duration	Set the triggering interval for intrusion.
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.

Parameters	Function Introduction
Trigger Mode	Set the desired mode of the trigger logic including General Mode and Bottom Mode. General Mode: The alarm is triggered when the object's body roughly enters the detection area. Bottom Mode: the alarm will be triggered as soon as the bottom of the object enters the detection area. Suitable for scenarios that require sensitivity to intrusion status/ bottom detection preference.
Min. Size	Draw on the screen to set the maximum size of the detected object. Objects larger than this size will not be detected. The default maximum size is 320x240.
Max. Size	Draw the screen 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.

### [Schedule Settings]

**Step5:** Set detection schedule.

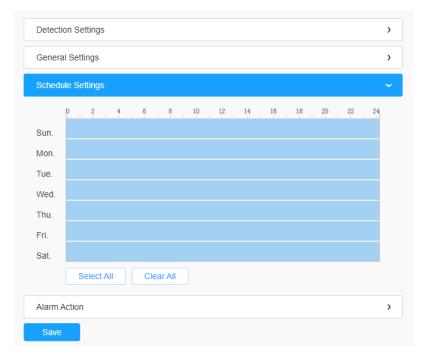


Table 48. Description of the buttons

Parameters	Function Introduction
Copy To × All Sun. Mon. Tue. Wed. Thu. Fri. Sat. Save	Copy the schedule area to another date. The "All" button is handy to copy the today's schedule to all days.
Select All	Select all schedule.
Clear All	Clear all schedule.

### [Alarm Action]

Step6: Set alarm action.

Detection Settings		>
General Settings		>
Schedule Settings		>
Alarm Action		~
Record	>	
Snapshot	>	
External Output	>	
Play Audio (Please enable the Audio Speaker.)		
Alarm to SIP Phone (Please open the SIP.)		
HTTP Notification	>	
White LED	>	

### Table 49. Description of the buttons

Parameters	Function Introduction
Record	<ul> <li>Duration: Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available.</li> <li>Linkage: Save alarm recording files into SD Card or NAS or Upload the recording files via FTP.</li> </ul>

Parameters	Function Introduction
	Number: The number of snapshot, 1~5 are available.
Snapshot	Interval: This cannot be edited unless you choose more than 1 to Snapshot.
	<b>Linkage:</b> Save alarm recording files into SD Card or NAS, Upload the recording files via FTP and send alarm email.
	If the camera equips with External Output, you can enable the action after configuring the trigger duration.
External Output	Action Time:Customize/10 seconds/30 seconds/1minute/5 minutes/Constant are available.
Diau Andia	Auto/10 seconds/30 seconds/1 minute/5 minutes/10 minutes are available.
Play Audio	<b>Note:</b> Please enable the Audio Speaker.
	Support to call the SIP phone after enabling the SIP function.
Alarm to SIP Phone	<b>Note:</b> Please open the SIP.
	Support to pop up the alarm news to specified HTTP URL.
HTTP Notification	After filling in the basic information, you can click the test button to test the HTTP connectivity.
	When the alarm triggered, White LED will turn on to warning the detected objects.
White LED	<b>Note:</b> Only for PTZ Bullet.
	There are five PTZ action enable to choose.
	<b>PTZ motion:</b> When the motion alarm is triggered, PTZ Motion enables the camera to pivot to the triggered position and zoom in.
	Call Present/Call Patrol/Call Pattern: When the alarm action is triggered, Preset, Patrol, or Pattern will be called.
PTZ Motion	<b>PTZ Auto Tracking:</b> Camera will automatically track objects and trigger an alarm if objects enter the selected regions.
	Note:
	<ul> <li>Only for PTZ series.</li> <li>Please enable PTZ action on the PTZ interface first.</li> </ul>

## 8.4.2.2 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.

Mile.	<i>sight</i> ·Network Camera		Download Plug-in	⊕ English ∽	💄 admin 🗸
	🛱 Media 🔹	Intrusion Detection Region Entrance Region Exiting Advanced Motion Detection Line Crossing Loitering Object LeftRemoved			
•	Network     Network	Detection Settings			
$\odot$	E Storage	General Settings			
	🗟 Event 🖌	Bitrate: Okbps Schedde Settings			
ø	Al Application Options Basic Event	Learning Action Upps			
	VCA Event	with 1753 of 1.224 Single Stroom, Cit			
	Object Counting	Curium Connections 1			
	🐼 System 🔹 🕨	Clear			

Settings steps are shown as follows:

#### [Detection Settings]

**Note:** General Settings will take effect in all detection regions/lines!

**Step1:** Selected effective region including Normal and Advanced.

Normal mode is effective for all detection areas.

Advanced methods will work in specific fields of view and require setting a preset.

Step2: Selected detection region and enable region entrance detection.

**Step3:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events;

	Detection Settings ~
Detection Settings ~	Effective Region O Normal O Advanced
Effective Region   Normal  Advanced	Effective with Preset 4
Region 1 2 3 4	Region 1 2 3 4
Enable Detection	Enable Detection
Detection Object 📝 Human 🔽 Vehicle	Detection Object 📝 Human 🗹 Vehicle
Note: Please draw on the video to set Detection Regions/Lines!	Note: Please draw on the video to set Detection Regions/Lines/
General Settings	General Settings
Schedule Settings	Schedule Settings
Alarm Action	Alarm Action
Save	Save

# [General Settings]

Step4: Set detecting sensitivity and object size limits;

	Detection Settings	>
General Settings	General Settings	~
Sensitivity 5 O	Sensitivity 5O	
Trigger Mode General Mode	Trigger Mode A	
Object Size Filter	Object Size Filter General Mode	
Finish	Edit Bottom Mode	
O Min. Size O Max. Size	Min. Size     Max. Size	
Note: Please draw on the video to set Detection Regions/Lines!	Note: Please draw on the video to set Detection Regions/Lines!	
Schedule Settings	Schedule Settings	>
Alarm Action	Alarm Action	>
Save	Save	

# Table 50. Description of the buttons

Parameters		Function Introduction
	Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results.

Parameters	Function Introduction
Trigger Mode	<ul> <li>Set the desired mode of the trigger logic including General Mode and Bottom Mode.</li> <li>General Mode: The alarm is triggered when the object's body roughly enters the detection area.</li> <li>Bottom Mode: the alarm will be triggered as soon as the bottom of the object enters the detection area. Suitable for scenarios that require sensitivity to intrusion status/ bottom detection preference.</li> </ul>
Min. Size	Draw on the screen to set the minimum size of the detected object. Objects smaller than this size will not be detected. The default minimum size is 3x3.
Max. Size	Draw on the screen to set the maximum size of the detected object. Objects larger than this size will not be detected. The default maximum size is 320x240.

## [Schedule Settings]

Step5: Set detection schedule;

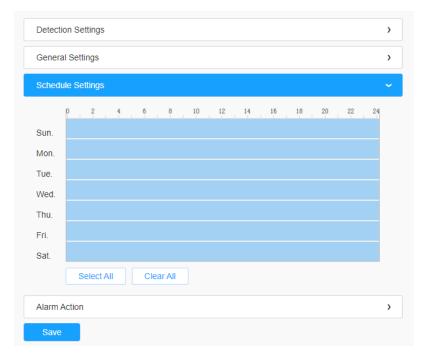


Table 51. Description of the buttons

Parameters	Function Introduction
Copy To × All Sun. Mon. Tue. Wed. Thu. Fri. Sat. Save	Copy the schedule area to another date. The "All" button is handy to copy the today's schedule to all days.
Select All	Select all schedule.
Clear All	Clear all schedule.

## [Alarm Action]

**Step6:** Set alarm action;

Detection Settin	ıgs		>
General Setting	S		>
Schedule Settir	gs		>
Alarm Action			~
Rec	ord	>	
Sna	pshot	>	
Exte	rnal Output	>	
Play	Audio (Please enable the Audio Speaker.)		
Alar	m to SIP Phone (Please open the SIP.)		
НТТ	P Notification	>	
Whi	te LED	>	

**Note:** This part is the same as the regular alarm settings. You can refer to <u>8.4.2.1</u> Intrusion Detection (*page 107*).

### 8.4.2.3 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.

Settings steps are shown as follows:

#### [Detection Settings]

**Note:** General Settings will take effect in all detection regions/lines!

Step1: Selected effective region including Normal and Advanced;

Normal mode is effective for all detection areas;

Advanced methods will work in specific fields of view and require setting a preset.

Step2: Selected detection region and enable region exiting detection;

**Step3:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events.

	Detection Settings ~
Detection Settings	Effective Region ONMal O Advanced
Effective Region  O Normal  O Advanced	Effective with Preset 4
Region 1 2 3 4	Region 1 2 3 4
Enable Detection	Enable Detection
Detection Object 🔽 Human 🗹 Vehicle	Detection Object 🔽 Human 🔽 Vehicle
Note: Please draw on the video to set Detection Regions/Lines!	Note: Please draw on the video to set Detection Regions/Lines!
General Settings >	General Settings
Schedule Settings	Schedule Settings
Alarm Action	Alarm Action >
Save	Save

# [General Settings]

Step4: Set detecting sensitivity and object size limits;

	Detection Settings	>
General Settings	General Settings	~
Sensitivity 5 O	Sensitivity 5O	
Trigger Mode General Mode	Trigger Mode A	
Object Size Filter	Object Size Filter General Mode	
Finish	Edit Bottom Mode	
Min. Size O Max. Size	Min. Size     Max. Size	
Note: Please draw on the video to set Detection Regions/Lines!	Note: Please draw on the video to set Detection Regions/Lines!	
Schedule Settings	Schedule Settings	>
Alarm Action	Alarm Action	>
Save	Save	

Table 52. Description of the buttons

Parameters	Function Introduction					
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results.					
Trigger Mode	Set the desired mode of the trigger logic including General Mode and Bottom Mode. General Mode: The alarm is triggered when the object's body roughly enters the detection area. Bottom Mode: the alarm will be triggered as soon as the bottom of the object enters the detection area. Suitable for scenarios that require sensitivity to intrusion status/bottom detection preference.					
Min. Size	Draw the screen 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.					
Max. Size	Draw the screen 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.					

### [Schedule Settings]

Step5: Set detection schedule;

Detectio	on Se	ettings											>
Genera	I Sett	ings											>
Schedu	ile Se	ttings											~
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sun.													
Mon.													
Tue.													
Wed.													
Thu.													
Fri.													
Sat.													
	s	elect A	II	Cle	ar All								
Alarm A	Action												>
Save													

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.2</u> <u>Region Entrance (page 112)</u>.

# [Alarm Action]

Step6: Set alarm action;

Detection Settings		>
General Settings		>
Schedule Settings		>
Alarm Action		~
Record	>	
Snapshot	>	
External Output	>	
Play Audio (Please enable the Audio Speaker.)		
Alarm to SIP Phone (Please open the SIP.)		
HTTP Notification	>	
White LED	>	
PTZ Auto Tracking (Please Enable the Auto Tracking)		
Save		

**Note:** This part is the same as the regular alarm settings. You can refer to <u>8.4.2.1</u> Intrusion Detection (*page 107*).

#### 8.4.2.4 Advanced Motion Detection

Different from traditional motion detection, 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.

Mile.	sight Network Camera												♪ Download Plug-in	⊕ English ∽	💄 admin 🗸
	🛱 Media 🔹 👌	Intrusion Detection	Region Entrance	Region Exiting	Advanced N	Notion Detection	Line Crossing L	Loitering (	Object Left/Remove	ed					
	Network		and the second second	*14/01/2025 19 3	7 44	Detection Settings					>				
$\odot$	🗄 Storage	- AN MALL		MERST. dagi		General Settings					, ,				
Č	🗟 Event 🗸	the state													
ø	Al Application Options		Bitra	te: 16106kbps te Rate: 24fps		Schedule Settings					•				
	Basic Event VCA Event		Resc	te Rate: 24fps plution: 38/16/2160 o Codec H.264	2	Alarm Action					>				
	Object Counting	Pagert	Sma	rt Stream: Off ent Connections:		Save									
	🔊 PTZ				1445										
	🕼 System 🔹 🕨	Clear													

Settings steps are shown as follows:

Step1: Selected effective region including Normal and Advanced;

Normal mode is effective for all detection areas;

Advanced methods will work in specific fields of view and require setting a preset.

Step2: Selected Detection Region and enable advanced motion detection;

**Step3:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events;

	Detection Settings ~
Detection Settings	Effective Region O Normal O Advanced
Effective Region o Normal O Advanced	Effective with Preset 4
Region 1 2 3 4	Region 1 2 3 4
Enable Detection	Enable Detection
Detection Object 🔽 Human 🔽 Vehicle	Detection Object 🔽 Human 🗹 Vehicle
Note: Please draw on the video to set Detection Regions/Lines!	Note: Please draw on the video to set Detection Regions/Lines!
General Settings	General Settings
Schedule Settings	Schedule Settings
Alarm Action	Alarm Action >
Save	Save

## [General Settings]

**Step4:** Set Ignore Short-Lived Motion time. If you set the time, when the moving duration of an object is within the setting time, the alarm will not be triggered;

Step5: Set detecting sensitivity and object size limits;

General Settings		
Ignore Short-Lived Motion	Off	
Sensitivity	8O	
Trigger Mode	General Mode V	
Object Size Filter		
Edit		
💿 Min. Size 🔵 Max. S	ize	
Note: Please draw on the	video to set Detection Regions/Lines!	
Schedule Settings		>
Alarm Action		>
Save		

#### Table 53. Description of the buttons

Parameters	Function Introduction
	The alarm will not be triggered when the moving duration of an object is within the setting time. Off/1s/2s/3s/4s/5s are available.
Ignore Short-Lived Motion	<b>Note:</b> Ignore Short-Lived Motion time is to avoid false alarm caused by instant object movement within time setting.

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. 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.
Trigger Mode	Set the desired mode of the trigger logic including General Mode and Bottom Mode. General Mode: The alarm is triggered when the object's body roughly enters the detection area. Bottom Mode: the alarm will be triggered as soon as the bottom of the object enters the detection area. Suitable for scenarios that require sensitivity to intrusion status/bottom detection preference.
Min. 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.
Max. 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.

#### [Schedule Settings]

Step6: Set detection schedule;

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.2</u> <u>Region Entrance (*page 109*)</u>.

#### [Alarm Action]

**Step7:** Set alarm action;

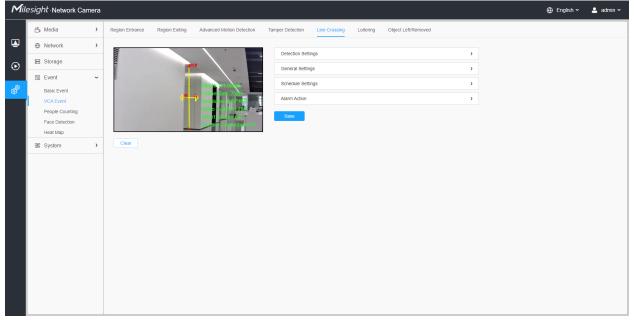
#### Note:

- This part is the same as the regular alarm settings. You can refer to <u>8.4.2.1 Intrusion</u> <u>Detection (page 107)</u>.
- If you enable External Output and choose Constant External Output Action Time, when object motion time is longer than the Ignore Short-Lived Motion time which you set in the selected regions, External Output Action alarm time will be always constant till the alarm is released.

#### 8.4.2.5 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.

Mile	sight Network Camera									Download Plug-in	⊕ English ∽	💄 admin 🗸
_	🖧 Media 🔹	Intrusion Detection	Region Entrance	Region Exiting	Advanced M	otion Detection Line Cros	ssing Loitering	Object Left/Removed				
	Network			14/01/2025 19 3	81 20 6	Detection Settings			>			
$\odot$	E Storage			Albres, doi:		General Settings			>			
ø	Al Application Options		~			Schedule Settings Alarm Action			>			
	Basic Event VCA Event		->	a.h		Alarm Action			>			
	Object Counting											
	System >	Clear										



Settings steps are shown as follows:

#### [Detection Settings]

# Step1: Selected effective region including Normal and Advanced;

Normal mode is effective for all detection areas;

Advanced methods will work in specific fields of view and require setting a preset.

Step2: Select detection line, enable line crossing detection and define its direction;

#### Note:

• Allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm. "A-->B" means when there is any object crossing the line from the "A" side to the "B" side, the alarm will be triggered. "B-->A" vice versa. "A<--> B" means that the alarm will be triggered when objects cross line from either side.

**Step3:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events.

	Detection Settings
Detection Settings	Effective Region O Normal O Advanced
Effective Region   Normal  Advanced	Effective with Preset 4
Region 1 2 3 4	Region 1 2 3 4
Enable Detection	Enable Detection
Detection Object 🔽 Human 🛃 Vehicle	Detection Object 🗸 Human 🗸 Vehicle
Note: Please draw on the video to set Detection Regions/Lines!	Note: Please draw on the video to set Detection Regions/Lines!
General Settings	General Settings
Schedule Settings	Schedule Settings
Alarm Action	Alarm Action
Save	Save

#### [General Settings]

Step4: Set detecting sensitivity and object size limits.

	Detection Settings	>
General Settings	General Settings	~
Sensitivity 5 O	Sensitivity 5	
Trigger Mode General Mode V	Trigger Mode Bottom Mode	
Object Size Filter	Object Size Filter General Mode	
Finish	Edit Bottom Mode	
Min. Size • Max. Size	Min. Size     Max. Size	
Note: Please draw on the video to set Detection Regions/Lines!	Note: Please draw on the video to set Detection Regions/Lines!	
Schedule Settings	Schedule Settings	>
Alarm Action	Alarm Action	>
Save	Save	

Table 54. Description of the buttons

Parameters	Function Introduction
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results.
	Set the desired mode of the trigger logic including General Mode and Bottom Mode. General Mode: The alarm is triggered when the object's body roughly enters the
Trigger Mode	detection area. Bottom Mode: the alarm will be triggered as soon as the bottom of the object enters the detection area. Suitable for scenarios that require sensitivity to intrusion status/bottom detection preference.
Min. Size	Draw the screen 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.
Max. Size	Draw the screen 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.

# [Schedule Settings]

Step5: Set detection schedule;

Detectio	on Settings	>
General	Il Settings	>
Schedul	le Settings	~
	0 2 4 6 8 10 12 14 16 18 20	22 24
Sun.		
Mon.		
Tue.		
Wed.		
Thu.		
Fri.		
Sat.		
	Select All Clear All	
Alarm A	Action	>
Save		

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.0.4.2.2</u> Region Entrance. (page 109).

## [Alarm Action]

Step6: Set alarm action.

Detection Settings		>
General Settings		>
Schedule Settings		>
Alarm Action		~
Record	>	
Snapshot	>	
External Output	>	
Play Audio (Please enable the Audio Speaker.)		
Alarm to SIP Phone (Please open the SIP.)		
HTTP Notification	>	
White LED	>	
PTZ Auto Tracking (Please Enable the Auto Tracking)		
Save		



- This part is the same as the regular alarm settings. You can refer to <u>8.4.2.1 Intrusion</u> <u>Detection (page 107)</u>.
- If you enable External Output and choose Constant External Output Action Time, when objects cross a defined virtual line, External Output Action alarm time will be always constant till the alarm is released

#### 8.4.2.6 Loitering

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

lilesigi	ht-Network Camer	a									Download Plug-in	🌐 English 🗸	💄 admin 🗸
	🛱 Media	>	Intrusion Detection	Region Entrance	Region Exiting	Advanced N	lotion Detection Line Cro	ssing Loitering	Object Left/Removed				
]	Network     Network	>	Sec. 1		14/01/2025 19 3	8 5 9	Detection Settings			>			
<b>)</b>	E Storage				ANTE COL	Î L	General Settings			>			
■     ≥	Event Al Application Options	ř	and a state		Star Brack and	1.73	Schedule Settings			>			
	Basic Event				- di	-	Alarm Action			>			
	VCA Event Object Counting						Save						
	S PTZ					143							
	🕼 System	>	Clear										

Settings steps are shown as follows:

#### [Detection Settings]

**Note:** General Settings will take effect in all detection regions/lines!

Step1: Select detection region and enable loitering detection;

**Step2:** Set Min. Loitering Time. 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;

**Step3:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events.

	Detection Settings ~
Detection Settings	Effective Region O Normal O Advanced
Effective Region   Normal  Advanced	Effective with Preset 1  Call
Region 1 2 3 4	Region 1 2 3 4
Enable Detection	Enable Detection
Min. Loitering Time 7 (3~1800)s	Min. Loitering Time 7 (3~1800)s
Detection Object <table-cell> Human 💟 Vehicle</table-cell>	Detection Object 🛛 🗸 Human 🔽 Vehicle
Note: Please draw on the video to set Detection Regions/Lines!	Note: Please draw on the video to set Detection Regions/Lines!
General Settings	General Settings
Schedule Settings	Schedule Settings
Alarm Action	Alarm Action
Save	Save

# [General Settings]

Step4: Set object size limits;

General Settings		~
Trigger Mode	General Mode	
Object Size Filter	General Mode Bottom Mode	
	ax. Size the video to set Detection Regions/Lines!	
Schedule Settings		>
Alarm Action		>
Save		

# Table 55. Description of the buttons

Parameters	Function Introduction
	Set the desired mode of the trigger logic including General Mode and Bottom Mode.
Trigger Mode	General Mode: The alarm is triggered when the object's body roughly enters the detection area.
	Bottom Mode: the alarm will be triggered as soon as the bottom of the object enters the detection area. Suitable for scenarios that require sensitivity to intrusion status/bottom detection preference.
Min. Size	Draw the screen 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.

Parameters	Function Introduction
Max. Size	Draw the screen 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.

#### [Schedule Settings]

**Step4:** Set detection schedule;

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.2</u> <u>Region Entrance (*page 109*)</u>.

#### [Alarm Action]

Step5: Set alarm action;

#### Note:

- This part is the same as the regular alarm settings. You can refer to <u>8.4.2.1 Intrusion</u> <u>Detection (page 107)</u>.
- If you enable External Output and choose Constant External Output Action Time, when objects loiter in the selected regions, External Output Action alarm time will be always constant till the alarm is released.

Step5: Set alarm settings. If you enable External Output and choose Constant External Output Action Time, when objects loiter in the selected regions, External Output Action alarm time will be always constant till the alarm is released.

#### 8.4.2.7 Object Left/Removed

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.

Miles	<i>ight</i> ·Network Camer	a										Download Plug-in	⊕ English ∽	💄 admin 🗸
	🛱 Media	>	Intrusion Detection	Region Entrance	Region Exiting	Advanced M	Notion Detection	Line Crossing	Loitering	Object Left/Removed				
	Network     Network	>			14/01/2025 19	29155								
$\odot$	E Storage		- AND MARCE				Detection Settin				>			
	S Event	-	and a state		Street Street Land		Schedule Settin				>			
ø	Al Application Options Basic Event						Alarm Action	θ <sup>5</sup>			,			
	VCA Event				E-h-						,			
ľ	Object Counting						Save							
	PTZ		Clear											
	🕼 System	>												

Settings steps are shown as follows:

#### [Detection Settings]

**Note:** General Settings will take effect in all detection regions/lines!

**Step1:** Selected effective region including Normal and Advanced.

Normal mode is effective for all detection areas.

Advanced methods will work in specific fields of view and require setting a preset.

**Step2:** Selected detection region and enable object left/removed detection (Or you can enable both features at the same time).

Detection Settings	~	Detection Settings	~
Effective Region   Normal  Advanced		Effective Region   Normal  Advanced	
Region 1 2 3 4		Region 1 2 3 4	
Enable Detection Enable Object Left Enable Object Removed		Enable Detection Enable Object Left Enable Object Removed	
Note: Please draw on the video to set Detection Regions/Lines!		Note: Please draw on the video to set Detection Regions/Lines!	
General Settings	>	General Settings	>
Schedule Settings	>	Schedule Settings	>
Alarm Action	>	Alarm Action	>
Save		Save	

[General Settings]

Detection Settings	;	>
General Settings		~
Min. Time	20 (5~1800)s	
Sensitivity	5O	
Edit		
Edit • Min. Size	3 * 3 Pixels (1*1~320*240)	
	3 * 3 Pixels (1*1~320*240) 320 * 240 Pixels (1*1~320*240)	
Min. Size     Max. Size		
Min. Size     Max. Size	320 * 240 Pixels (1*1~320*240) ettings will take effect in all detection regions/lines!	>

**Step3:** Set Min. time, detecting sensitivity and object size limits.

Table 56. Description of the buttons

Parameters	Function Introduction
Min. Time	After setting Min. time from 5s to 1800s, any objects are left in the selected area or removed from the selected area over the minimum time will trigger the alarm.
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.  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.
Min. 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.
Max. 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.

#### [Schedule Settings]

Step4: Set detection schedule;

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.2</u> <u>Region Entrance (page 112)</u>.

#### [Alarm Action]

Step5: Set alarm action;

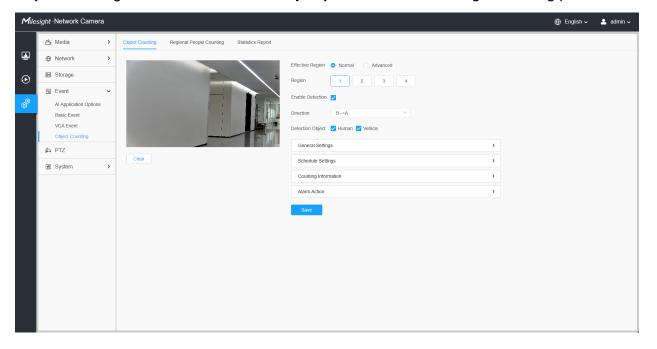
#### Note:

- This part is the same as the regular alarm settings. You can refer to <u>8.4.2.1 Intrusion</u> <u>Detection (page 107)</u>..
- If you enable External Output and choose Constant External Output Action Time, when an object is left/removed from the selected regions, External Output Action alarm time will be always constant till the alarm is released.

# 8.4.3 Object Counting

### 8.4.3.1 Object Counting

Object counting is able to count how many object enter or exit during the setting period.



Note: Make sure your camera model is MS-Cxxxx-xPE

Settings steps are as shown below:

**Step1:** Check the object counting function box within the AI Application Options interface.

Mile.	sight Network Camera			🕀 English 🗸	💄 admin 🗸
	thedia >	>	Al Application Options		
<b></b>	Network	>			
$\odot$	E Storage				
	🗟 Event 🗸	-			
¢	Al Application Options Basic Event		VCA Event Object Counting Face Detection		
	VCA Event Object Counting		Save		
	PTZ				
	國 System >	>			

Step2: Selected effective region including Normal and Advanced.

Normal mode is effective for all detection areas.

Advanced methods will work in specific fields of view and require setting a preset.

Step3: Selected detected region, up to 4 regions can be chosen.

**Step4:** Enable Object Counting.

**Step5:** Set detection line and direction.

**Step6:** Selected detection object including human and vehicle.

Effective Region 🧿 Normal 🔿 Advanced	
Region 1 2 3 4	
Enable Detection	
Direction B->A Y	
Detection Object 🗹 Human 🗹 Vehicle	
General Settings	>
General Settings Schedule Settings	>
	-
Schedule Settings	>

#### Note:

- Crossing along the direction of the arrow will record as "In", opposite is "Out".
- Support up to 4 detection lines.

B>A	^
A>B	
B>A	

#### [General Settings]

Step7: Set sensitivity and object size limits.

General Settings		~
Sensitivity	5O	
Trigger Mode	General Mode	
Object Size Filt	er	
Edit		
• Min. Size	) Max. Size	
Note: Please dra	aw on the video to set Detection Regions/Lines!	
Schedule Setting	3	>
Counting Information	ion	>
Alarm Action		>

#### Table 57. Description of the buttons

Parameters	rs Function Introduction		
Trigger Mode	Set the desired mode of the trigger logic including General Mode and Bottom Mode. General Mode: The alarm is triggered when the object's body roughly enters the detection area.Bottom Mode: the alarm will be triggered as soon as the bottom of the object enters the detection area. Suitable for scenarios that require sensitivity		
Sensitivity	to intrusion status/bottom detection preference.		
Sensitivity	easier it is for moving objects to be recorded in the results.		

Parameters	Function Introduction
Min. Size	Draw the screen 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.
Max. Size	Draw the screen 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.

#### [Schedule Settings]

Step8: Set detection schedule;

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.2</u> Region Entrance (*page 109*).

#### [Counting Information]

Step9: Set counting information;

Count Type	- All				
	🛃 In	🔽 Out	Sum	Capacity	
Total Counting (	D				
Show OSD					
Font Size	Small		×		
Font Color					
Text Position	Top-Left		~		
Single Counting					
Single Counting					
Show Information	<b>~</b>				
Manual Reset	Reset				
	Reset the	statistics report to	ogether?		
Auto Reset					
Day	Everyday		¥		
Time	© 00:00:00	)			
Alarm Action				>	

Table 58. Description of the buttons

Parameters	Function Introduction
Count Type	Users can choose the information they want to display in Live Video.
Total Counting	Set counting OSD.         Image: Note: The Total Counting OSD configuration is linked in all detection lines.         Show OSD: Click to enable/disable the OSD shown.         Font Size: The font size of the OSD display.         Font Color: The font color of the OSD display.         Text Position: The text position of the OSD display.

Parameters	Function Introduction
Single Counting	<ul> <li>Set Single Counting.</li> <li>Note: The Total Counting OSD configuration is linked in all detection lines.</li> <li>Show Information: Click to show the information.</li> <li>Manual Reset: Reset the counting of each single line. You can choose to reset the statistics report together.</li> <li>Auto Reset: It is used to automatically clear the single counting information.</li> <li>Day: The day of Auto Reset.</li> <li>Time: The time of Auto Reset.</li> </ul>

# [Alarm Action]

Step10: Set alarm trigger and alarm action;

luman	In	9999	Out	9999	
	Capacity	9999	Sum	9999	
'ehicle	In	9999	Out	9999	
	Capacity	9999	Sum	9999	
larm Action	d				>
Snaps	hot				>
					>
Extern	al Output				·

Table 59. Description of the buttons

Parameters	Function Introduction
Alarm Trigger	Alarm will be triggered when the thresholds reaches to a certain value from 1 to 9999. Total Counting and Single Counting are available. You can set the Alarm Thresholds of In/Out/Capacity/Sum.
	<ul> <li>For Single Counting, the threshold is for the selected detection line.</li> </ul>
	This part is the same as the regular alarm settings. You can refer to <u>8.4.2.1</u> Intrusion Detection (page 107).
Alarm Action	<ul> <li>The alarm action is effective on 4 detection lines simultaneously.</li> <li>If you enable External Output and choose Constant External Output Action Time, when the thresholds reach to a certain value you set, External Output Action alarm time will be always constant till the alarm is released.</li> </ul>

## 8.4.3.2 Regional People Counting

When enabling Regional People Counting, users can check the real-time number of people and the time of each person's stay in the detection region.

#### **Note:**

- Make sure your camera model is MS-Cxxxx-PA/PE.
- Support up to 4 detection regions for regional people counting.
- Users can check the real-time number of people and the time of each person's stay in the detection region on Live View interface.

Mile	<i>sight</i> ·Network Camera	a					ව Download Plug-in	🕀 English 🗸	💄 admin 🗸
	🗂 Media	>	Object Counting	Regional People Counting	Statistics Report				
•	Network	>			1	Effective Region 🧿 Normal 🔷 Advanced			
$\odot$	Storage		Stark.			Region 1 2 3 4			
<b>^</b>	S Event	~				Enable Detection			
ø	AI Application Options Basic Event					Basic Settings 🗸			
	Object Counting					Basic	•		
	🔊 PTZ			nouna		Sensitivity 5O			
	國 System	>	Clear			Trigger Mode General Mode V			
						Object Size Filter			
						Edit			
						Min. Stze     Max. Stze			
						Note: Please draw on the video to set Detection Regions/Lines/ Schedule Settings			
						Alam Action >			
						Save			

Settings steps are as shown below:

Step1: Select detection region and enable regional people counting detection.

Effective Region	<ul> <li>Normal</li> </ul>	) A	Advanced		
Region	1	2	3	4	
Enable Detection					

**Note:** Support up to 4 detection regions.

#### [Basic Settings]

Step2: Set sensitivity and object size limits.

Sensitivity 5 O	
Trigger Mode General Mode	<b>~</b>
Object Size Filter	
Edit	
Min. Size	
Note: Please draw on the video to set Detection Regio	ns/Lines!
chedule Settings	>

#### Table 60. Description of the buttons

Parameters	Function Introduction
Trigger Mode	Set the desired mode of the trigger logic including General Mode and Bottom Mode. <b>General Mode:</b> The alarm is triggered when the object's body roughly enters the detection area. <b>Bottom Mode:</b> the alarm will be triggered as soon as the bottom of the object enters the detection area. Suitable for scenarios that require sensitivity to intrusion status/bottom detection preference.
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. 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.
Max. 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.

#### [Schedule Settings]

Step3: Set detection schedule;

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1</u> Intrusion Detection (*page 106*).

#### [Alarm Action]

Step4: Set alarm trigger and alarm action;

Alarm Action			~
Alarm Trigger			
Thresholds	✓ Max.Stay	60	
	✓ Min.Stay	1	
	Max.Length of Stay	30	s
Alarm Action			
Alarm Action			
Alarm Action			>
	d		>
Record Snaps	d		
Record Snaps Extern	d hot	Speaker.)	>
Record Snaps Extern Play A	d hot ial Output		>

## Table 61. Description of the buttons

Parameters	Function Introduction
Alarm Trigger	Alarm will be triggered when the Max./Min. Stay/Max. Length of Stay thresholds reaches to the value.  Note: The value must be in the range of 1 to 60.
Alarm Action	<ul> <li>This part is the same as the regular alarm settings. You can refer to <u>8.0.4.2.1</u></li> <li>Intrusion Detection (page 107).</li> <li>Note:</li> <li>The alarm action is effective on 4 detection regions simultaneously.</li> <li>If you enable External Output and choose Constant External Output Action Time, when the thresholds reach to a certain value you set, External Output Action alarm time will be always constant till the alarm is released.</li> </ul>

# 8.3.3.3 Statistics Report

The results during the enabling period will be displayed on "Statistics Report" interface.

Miles	<i>sight</i> ·Network Camera		Download Plug-in	🕀 English 🗸	💄 admin
	📸 Media	>	Object Counting Regional People Counting Statistics Report		
₽	Network	>	Main Type People Counting V Report Type Daily Report V Statistics Type In V Start Time (*) 2025-01-14 00:00 00	Search	
	Storage		Statistics Result		
) }	Event Al Application Options	~	Starbul Strabul Str Strabul Strabul St		
	Basic Event Object Counting		2025/01/14 00:00:00 - 2025/01/14 23:59:59 People Counting	까 때 자	
	PTZ		1	- <b>O-</b> In	
	😨 System	>	0.8		
			0.6		
			0.4		
			02		
			0.000000000000000000000000000000000000	23	
			No SD Card device is mounted, currently only data within the last 24 hours is supported.	Auto Export	

Step 1: Select Main Type.

**Step2:** Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report.

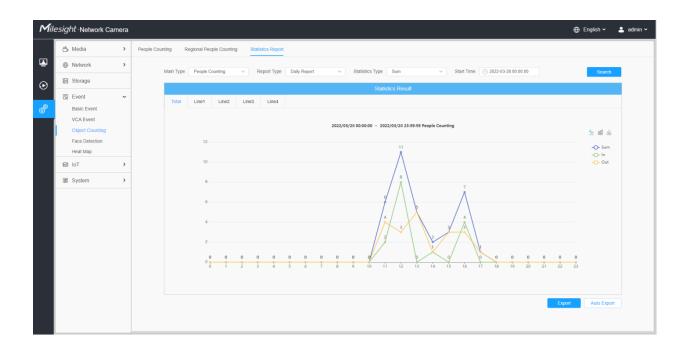
**Step3:** For people counting, select Statistics Type including In, Out and Sum. For regional people counting, select Length of Stay including All, More Then and Less Then and set the time of more then/less then.

**Note:** For regional people counting, check the check box to search the report of regions as needed.

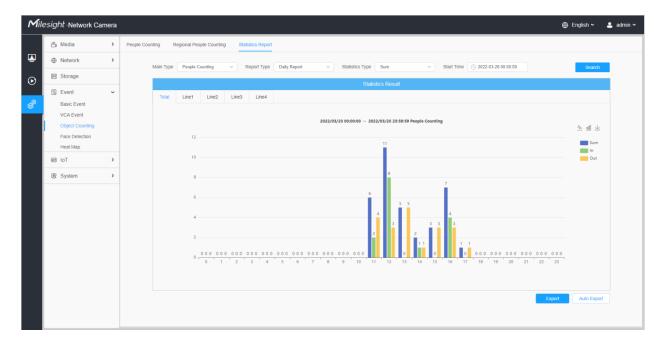
**Step4:** Select Start Time, then click "Search" button, the camera will automatically count the data for the day/ week/ month/ year (based on the report type selected by the user) from the start time and generate the corresponding report.

**Step5:** Moreover, you can also click "Line Chart" or "Bar Chart" to switch display mode of Statistics Report as shown below.

People Counting-Statistics Report (Line Chart)



People Counting-Statistics Report (Bar Chart)



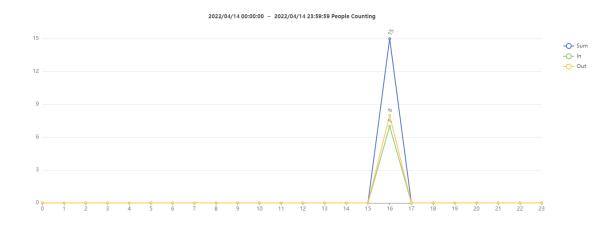
Regional People Counting-Statistics Report (Line Chart)

Mile	esight ∙Network Carr	nera		🕀 English 🗸	💄 admin 🗸
	🛱 Media	>	People Counting Regional People Counting Statistics Report		
₽	Network	>	Main Type Regional People Counti v Report Type Daily Report v Length of Stay All v Start Time 🕓 2022-04-88 00:00:00	Search	
$\odot$	🖹 Storage		Region 🗹 All 🖉 Region1 🖾 Region2 🖉 Region4	Courch	-
	Event	~	Statistics Result		
ð	Basic Event VCA Event Object Counting		2022/04/08 00:00:00 - 2022/04/08 23:59:59 Regional People Counting	소 @ 보	
	Heat Map			-O- Sum -O- Region1	
	(§ System)	>	20 20 10 5 0 0 0 0 0 0 0 0 0 0 0 0 0	-O- Region2 -O- Region3 -O- Region4	
			Expo	Auto Expo	t

Regional People Counting-Statistics Report (Bar Chart)

Mile	esight Network Camera	ora ⊕ English ~	💄 admin 🗸
	🕆 Media 🔹	People Counting Regional People Counting Statistics Report	
۲	Network	Main Type Regional People Cound v Report Type Daily Report v Length of Stay All v Start Time G 2022-04-08 00 00.00 Ssar	h
$\odot$	E Storage	Region 💆 All 🦉 Region1 🖉 Region3 🦉 Region4	
		Statistics Result	
ø	Basic Event VCA Event Object Counting Heat Map	2022/04/08 50:00:00 - 2022/04/08 23:55:59 Regional People Counting	
		Description     Projection       20     25       20     20       10     7       15     7       10     10	12
		Export Auto Exp	port

Step6: Click "Download" button to download the screenshot of the statistical report chart.



**Step7:** Click "Export" button to pop up the Export window as shown below, and you can choose File Format to export the report to local. For people counting Statistics Report, you can check the check box to export the report of different lines as needed.

People Counting-Export

		Export	
File Format	CSV		
Line	All		
	Total	🗸 Line1	🔽 Line2
	🗸 Line3	🗸 Line4	
	Export		Cancel

Regional People Counting-Export

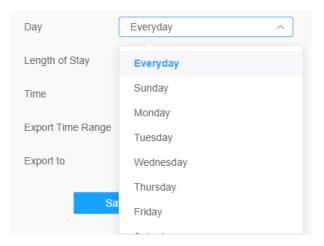
Exp	oort			
File Format CSV				
Export	Cancel			

Step8: Click "Auto Export" button to pop up the Statistics Report Settings as shown below.

People Counting-Auto Export

	Auto Export	×
People Counting	Regional People Counting	
Enable		
Line	<ul> <li>All</li> <li>Total  Line1  Line2</li> <li>Line3  Line4</li> </ul>	
Day	Everyday	
Time	© 00:00:00	
Export Time Range	Last 1 day 🗸	
Export to	FTP Email Storage	
	Save Cancel	

- Check the check box to enable the auto export of people counting, then select the lines as needed.
- Set Day. User can choose Everyday to export daily reports, while choosing others to export reports on a specific day of the week;



• Set Time. User can choose the time of day to export the Statistics Report automatically, click the calendar icon to pop up the following Quick Selection;

Time	(	(-) 03:0	3:03		
Export Time Range		00	00	υu	
		01	01	01	~
Export to		02	02	02	age
		03	03	03	
	Sa	04	04	04	J
	_	05	05	05	_
<b>9</b> 5	<b>• •</b> 6 7		Cancel	ок	• • 11 12

• Set Export Time Range;

Export Time Range	Last 1 day	^
Export to	Last 1 day	
	Export All	
Sa	1	

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

Export to	FTP	Email 🖌 Storage
	Save	Cancel

**Note:** If the current Statistics Report is generated, it will be saved as a csv form.

Regional People Counting-Auto Export

	Auto Export	×
People Counting	Regional People Counting	
Enable		
Day	Everyday 🗸	
Length of Stay	All	
Time	<b>(</b> ) 00:00:00	
Export Time Range	Last 1 day 🗸 🗸	
Export to	FTP Email Storage	
Sa	ve Cancel	

- Check the check box to enable the auto export of regional people counting.
- Set Day. User can choose Everyday to export daily reports, while choosing others to export reports on a specific day of the week;

Day	Monday ^
Length of Stay	Everyday
Time	Sunday
Export Time Range	Monday
	Tuesday
Export to	Wednesday
_	Thursday
Sa	Friday
	<u>-</u>

• Set Length of Stay.

Length of Stay	All
Time	All
Export Time Range	More Than
	Less Than
Export to	

• Set Time. User can choose the time of day to export the Statistics Report automatically, click the calendar icon to pop up the following Quick Selection;

Time		• 03:0	3:03		
	-	00	00	00	
Export Time Range		01	01	01	~
Export to		02	02	02	age
		03	03	03	
	Sa	04	04	04	]
	_	05	05	05	
<b>9</b> 5	<b>9 9</b> 6 7		Cancel	ок	• • 11 12

• Set Export Time Range;

Export Time Ra	ange 🛛	Last 1 day	^
Export to		Last 1 day	
_	_	Export All	
	Sa		

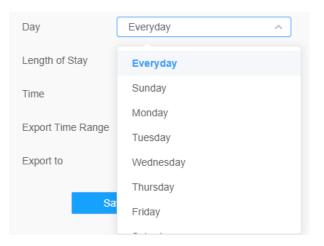
• Set the destination path of the automatically exported report. The report can be exported to FTP/Email/Storage automatically as the form of an Excel spreadsheet according to the day, time and export time range you set. Then click "Save".

Export to	FTP	Email 🔽 Storage
	Save	Cancel

**Note:** If the current Statistics Report is generated, it will be saved as a csv form.

	Auto Export	×
People Counting	Regional People Counting Vehicle Counting	
Enable		
Line	All	
	<ul> <li>✓ Total</li> <li>✓ Line1</li> <li>✓ Line2</li> <li>✓ Line3</li> <li>✓ Line4</li> </ul>	
Day	Everyday V	
Time	© 00:00:00	
Export Time Range	Last 1 day	
Export to	FTP Email Storage	
	Save Cancel	

- Check the check box to enable the auto export of people counting, then select the lines as needed.
- Set Day. User can choose Everyday to export daily reports, while choosing others to export reports on a specific day of the week;



• Set Time. User can choose the time of day to export the Statistics Report automatically, click the calendar icon to pop up the following Quick Selection;

Time	(	• 03:0	3:03		
Export Time Range		00	00	00	
		01	01	01	~
Export to		02	02	02	age
	_	03	03	03	
	Sa	04	04	04	
		05	05	05	
<b>9</b> 5	<b>• •</b> 6 7		Cancel	ок	• • 11 12

• Set Export Time Range.

Export Time	e Range	Last 1 day	^
Export to		Last 1 day	
	_	Export All	
	Sal		

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

Export to	FTP	Email 🖌 Storage
	Save	Cancel

**Note:** If the current Statistics Report is generated, it will be saved as a csv form.

## 8.4.4 Face Detection

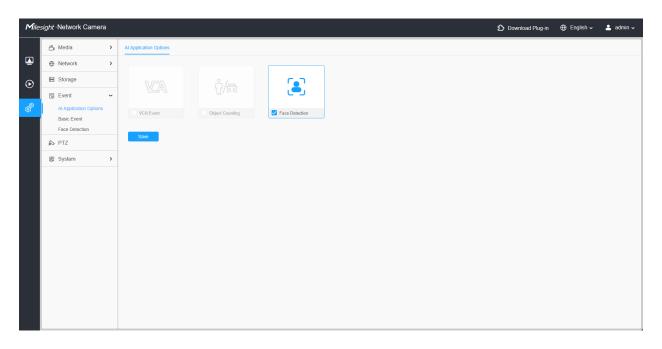
The Face Detection function can detect the face appearing in the drawn area and support saving face snapshots into Storage, upload via FTP or Email, display in Live View.

**Note:** Make sure your camera model is MS-Cxxxx-xPC/PE.

8.4.4.1 General

Settings steps are as shown below:

Before utilizing this function, please check the Face Detection box within the AI Application Options interface.



#### Step1: Enable Face Detection.

Mile.	<i>sight</i> ·Network Camera			Download Plug-in	🕀 English 🗸	💄 admin 🗸
	🖆 Media 🔹 👌	General Advanced				
•	Network	State State State State	Enable Face Detection			
$\odot$	Storage		Basic Settings			
.ô	Event     Al Application Options		Schedule Settings			
ø	Al Application Options Basic Event	Premu Rete 25/ps Resolution: 3840'2100	Alarm Action			
	Face Detection	Video Codec: H.264 Smart Stream: Off	Face Detection Message Post Settings			
	S PTZ	Current Connections	Save			
	us System	Clear				

[Basic Settings]

Step2: Set Min. Object Size.

**Step3:** Set detection region, you can drag the detection region to adjust the size. Only faces in this region will be detected.

**Step4:** Set Shield Region to make faces in the some places of detection region be not detected. The faces can be set to be not detected in some places of detection region via setting the Shield Region. You can draw a Shield Region in the preview interface firstly, then click Add button. There are at most four Shield Region drawn available.

Enable Face Detection				
Basic Settings				~
Object Size Limits				
Min. Size	30 <mark>O</mark> -			
Shield Region				
ID	Name	Enable	Operation	
	No D	lata		
Delete All	No D	lata		
Delete All Schedule Settings	No D	pata		>
	No D	pata		>
Schedule Settings		pata		

#### [Schedule Settings]

Step5: Set detection schedule.

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.2</u> <u>Region Entrance (*page 109*)</u>.

#### [Alarm Action]

Step6: Set alarm action.

Enable Face Detection		
Basic Settings		>
Schedule Settings		>
Alarm Action		~
Record	>	
Record Snapshot	>	
		>

### Table 62. Description of the buttons

Parameters	Function Introduction	
	<b>Duration:</b> Select the duration time of alarm. 5s/10s/15s/20s/25s/30s are available.	
Record	<b>Linkage:</b> Save alarm recording files into SD Card or NAS or Upload the recording files via FTP.	
	Number: The number of snapshot, 1~5 are available.	
Snapshot	Interval: This cannot be edited unless you choose more than 1 to Snapshot.	
Unaponot	<b>Linkage:</b> Save alarm recording files into SD Card or NAS, Upload the recording files via FTP and send alarm email.	

### [Face Detection Message Post Settings]

Step6: Enable face detection Message post.

Enable Face Detection		
Basic Settings		>
Schedule Settings		>
Alarm Action		>
Face Detection Message Post Setting	S	~
Enable Face Detection Message Pos	st	
Post Type	• ТСР 🔿 НТТР	
Port	8214	
Save		

## Table 63. Description of the buttons

Parameters	Function Introduction
Enable Face Detection Message Post	Check the check box to enable Face Detection Message Post. It will push information to some third-party devices or compatible software. Information can be pushed by TCP or HTTP.
Port Type	Information can be pushed by <b>TCP</b> or <b>HTTP</b> .

### 8.4.4.2 Advanced

Miles	sight ·Network Camera		Ô Download Plug-in	🕀 English 🗸	💄 admin 🗸
	😤 Media 🔰	General Advanced			
<b></b>	Network	Face Capture Settings			
$\odot$	E Storage	Capture Mode  Quality Priority Timeliness Priority Real-Time Priority			
¢	Event Al Application Options Basic Event	Capture Quality 20 Capture Quality 20 Background			
	Face Detection	Attribute Recognition Settings			
	S PTZ	Enable Attribute Recognition			
	System 3	> Attribute Z All			
		🗹 Age 🛛 🔽 Gender 🔽 Glasses			
		Z Mask Z Cap			
		Face Privacy Settings			
		Enable Face Privacy Mode Primary Stream Secondary Stream			
		Save			

[Face Capture Settings]

#### Here you can make configuration for face capture snapshot.

#### Table 64. Description of the buttons

Parameters	Function Introduction
	Quality Priority, Timeliness Priority, Real-Time Priority, are available.
	<b>Quality Priority:</b> In this mode, it will capture the best image of a face from the moment of face appears until it disappears, provided it exceeds the set threshold.
Capture Mode	<b>Timeliness Priority:</b> In this mode, it will immediately push the image once its quality exceeds the threshold, without considering any subsequent images that may have better quality.
	<b>Real-Time Priority:</b> In this mode, it will continuously push face images that exceed the threshold as they are captured in real time.
	<b>Note:</b> Attributes recognition only supports when Capture Mode is Quality Priority or Real-Time Priority
Capture Quality	The default value is 20, when the face image quality exceeds the Capture Quality, the camera will trigger the face capture, push face screenshot and related attributes to the back-end.
	Configure the Number of Snapshots captured upon face detection.
Snapshot Number	<b>Note:</b> Optional for Timeliness Priority mode.
	Face Only, Upper Body, Whole Body are available.
	Face Only: Capture the screenshot of face only.
Snapshot Type	Upper Body: Capture the screenshot of upper body.
	Whole Body: Capture the screenshot of whole body.
	If you check the "Background" option, it will take another screenshot of the entire image.

Camera will detect faces in Live View according to the region and conditions you set. If you check the "Show Tracks" option, it will display the face screenshot with the ID on the left side of Live View.

#### [Attribute Recognition Settings]

Here you can enable Attribute Recognition and configure the attributes you want to detect.

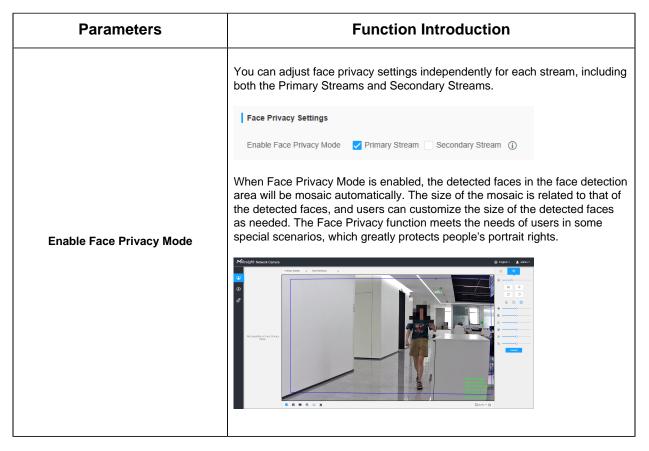
#### Table 65. Description of the buttons

Parameters	Function Introduction
Enable Attribute Recognition	<ul> <li>When Attribute Recognition is enabled, the attributes of detected faces will be displayed on the left side of the Live View interface. The attributes include Age, Gender, Glasses, Mask and Cap. Attribute Recognition meets the needs of users in some special scenarios, which improves user experience.</li> <li>Image: The transmission of t</li></ul>
Attribute	Users can choose the attributes as needed. All: Select or deselect all attributes in one click. Age: Recognize the age according the face, the types including Child (Age 0-17), Adult (Age 18-59), Elderly (Age more than 59). Gender: Recognize the gender according to the face, the types including Male and Female. Glasses: Recognize whether person is wearing glasses or not. Mask: Recognize whether person is wearing mask or not. Cap: Recognize whether person is wearing cap or not.

## [Face Privacy Settings]

Here you can enable the Face Privacy Mode for Face Detection.

## Table 66. Description of the buttons



#### Note:

- 1. Face Capture/Face Detection Message Post/Attribute Recognition are not available in Face Privacy Mode.
- 2. To enable Face Privacy Mode, video parameters should be:
  - a. Primary Stream or Secondary Stream: If the original frame rate is higher than 25fps, it will be adjusted to 25fps, and the original frame rate will not change if it is lower than 25fps.
  - b. Tertiary Stream: Disabled.
  - c. The power supply frequency is adjusted to 50Hz

### 8.4.5 Hard Hat Detection

Hard Hat Detection can be use to ensure the safety of construction workers. After completing the corresponding settings, if a worker is detected as not wearing a hard hat, then the alarm action will be triggered, acting as a warning.

#### Note:

• For more details about how to use Hard Hat Detection, please refer to <a href="https://www.youtube.com/watch?v=9AYwzheLoCE">https://www.youtube.com/watch?v=9AYwzheLoCE</a>

- Make sure your camera model is .
- Make sure your camera's version is xx.8.0.3 or above.
- When Hard Detection is enabled, then Object Counting, VCA Event, Face Detection and Auto Tracking of PTZ Series will be disabled.

Settings steps are as shown below:

Step1: Enable Hard Hat Detection;

Step2: Draw on the video to set detection regions.

#### [General Settings]

Step3: Set sensitivity and object size limits.

Sensitivity	5 —			0
Object Size Limi	ts			
E dh				
Edit	3	5		
<ul> <li>Min. Size</li> </ul>	3		3	Pixels (1*1~320*240)

 Table 67. Description of the buttons

Parameters	Function Introduction
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for people without hard hat to be recorded in the results.
Min. 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.
Max. 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.

#### [Schedule Settings]

**Step4:** Set detection schedule;

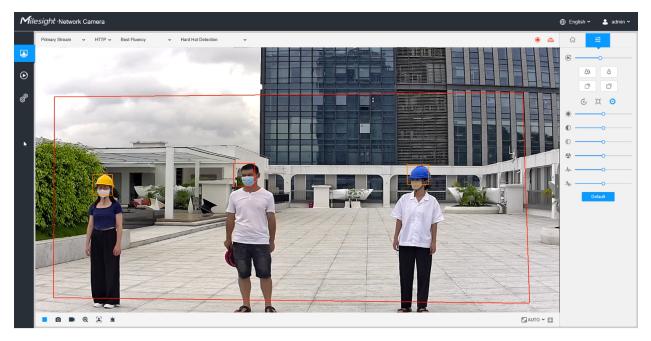
**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.2</u> <u>Region Entrance (*page 109*)</u>.

#### [Alarm Action]

**Step6:** Set alarm action. This part is the same as the regular alarm settings. You can refer to <u>8.4.2.1 Intrusion Detection (*page 107*)</u>.

Record	>
Snapshot	>
External Output	>
Play Audio (Please enable the Audio Speaker.)	
Alarm to SIP Phone (Please open the SIP.)	
HTTP Notification	>

Click Save button to finished the configuration. The alarm will be triggered when workers in the detection area do not properly wear the hard hat, and an alarm icon will appear and the detection box will turn red.



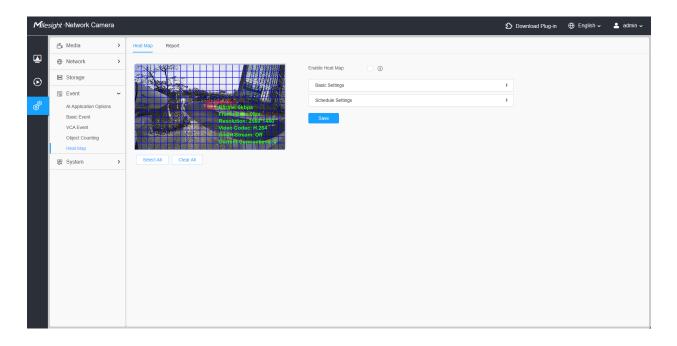
## 8.4.6 Heat Map

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.

#### 8.4.4.1 Heat Map

#### Note:

- Make sure your camera model is MS-Cxxxx-PE.
- Heat Map function is supported in AI models except PTZ and LPR series.
- Only allowed to view reports within 7 days without a SD card or NAS.
- For more details about how to set Heat Map, please refer to <a href="https://milesight.freshdesk.com/a/solutions/articles/69000643314">https://milesight.freshdesk.com/a/solutions/articles/69000643314</a>.



**Step1:** Enable Heat Map function.

#### [Basic Settings]

able Heat Map			
Basic Settings			~
Basic			
Sensitivity	5		
Min. Object Size	10 -0		
Min. Dwell Time	30	s(1-300)	
Scene Change Adaptability	5O		
Schedule Settings			>
Save			

#### Table 68. Description of the buttons

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

**Step2:** 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.

Mile.	sight ·Network Camera				2 Download Plug-in	⊕ English ∽	💄 admin 🗸
	📸 Media	>	Heat Map Report				
•	Network	>	Enable Heat Map				
$\odot$	Storage		Rest Settings		~		
<u>ر</u> ه.	Event	~	Basic				
¢	Al Application Options Basic Event		Bitrothe 66870bps 19 Provide Provide Party Sensitivity 5				
	VCA Event Object Counting		Min. Object Size 10 -0				
	Heat Map		Min. Dwell Time 30	s (1~300)			
	B System	>	Select All Clear All Scene Change Adaptability 5				
			Schedule Settings		>		
			Save				

#### [Schedule Settings]

Step3: Schedule Settings.

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.2</u> <u>Region Entrance (*page 109*)</u>.

#### 8.4.4.2 Report

The heat map results will be displayed on this interface.

Milesight Network Came	a			Download Plug-in	🕀 English 🗸	💄 admin 🗸
සී Media	>	Heat Map	Report			
Network	>		Atain Type Space Heat Map 💛 Report Type Daily Report 💙 Start Time 🕓 2025-01-15 00:00:00		Search	
Storage					CAUTON	
Event     Al Application Options     Basic Event     VCA Event     Object Counting     Heat Map     System	, ,		Space Heat Map	Ειρριτ	Auto Export	

Step1: Select Main Heat Map Type.

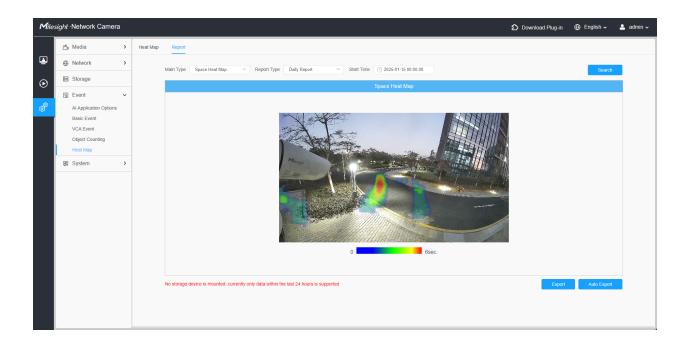
**[Space Heat Map]**: Space Heat Map will be presented as a picture with different colors. Different colors represent different heat values. Red represents the highest and blue represents the lowest.

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

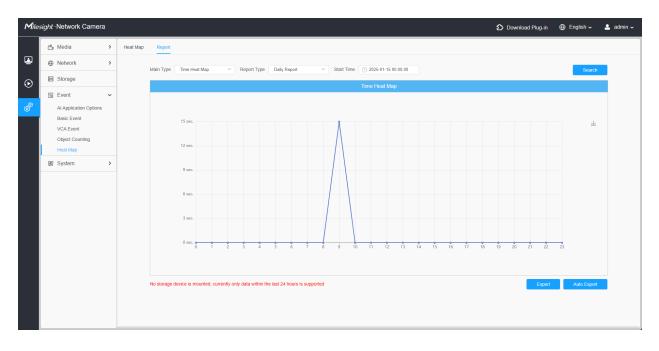
Step2: Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report.

Step3: 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



Step4: Click the "Report Export" button to export the report to local.

Step5: Click the **"Auto Export"** button to pop up the Heat Map Report Settings as shown below.

	Auto Export	×
Enable	Space Heat Map	
Day	Everyday 🗸	
Time	C 00:00:00	
Export Time Range	Last 1 day 🗸	
Export to	FTP Email Storage	
Se	ave Cancel	

- Set Export Type. User can check Space Heat Map or Time Heat Map or both. When either Space Heat Map or Time Heat Map is checked, the gray item becomes editable as shown below;
- Set Day. User can choose Everyday to export daily reports, while choosing others to export reports on a specific day of the week;

	Auto Export	×
Enable	✓ Space Heat Map 🗌 Time Heat Map	
Day	Everyday ^	
Time	Tuesday	
Export Time Range	Wednesday	
Export to	Thursday	
	Friday	
Sa	Saturday	
	Sunday	
	Everyday	

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

	Auto	Export		×
Enable	🗸 Space	me Heat Map		
Day	Everyd	ay	~	
Time	(L) 02:0	0:00		
Export Time Range	00			~
Export to	01			ge
	02	00	00	
Sa	03	01	01	
	04	02	02	
		Cancel	ок	

• Set Export Time Range.

	Auto Export	×
Enable	✔ Space Heat Map 🗌 Time Heat Map	
Day	Tuesday	
Time	© 02:00:00	
Export Time Range	Last 1 day	
Export to	Last 1 week	
Sa	Export All	

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

	Auto Export	×
Enable	🖌 Space Heat Map 🗌 Time Heat Map	
Day	Tuesday	
Time	© 02:00:00	
Export Time Range	Last 1 day 🗸	
Export to	FTP Email 🗹 Storage	
Si	ave Cancel	

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.

# 8.5 PTZ

## 8.5.1 Basic

Mill	e <i>sight</i> ·Network Cam	iera										🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Ba	asic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
	Network	>											
$\odot$	E Storage			Basic				>					
	5 Event	>		PTZ OSD Others				>					
ø	🔊 PTZ							,					
-	📾 LPR	>		Save									
	图 System	>											
			_										



Mile:	<i>sight</i> ·Network Camera	1								⊕ English ∽	💄 admin 🗸
	🖧 Media	>	Basic Auto Home P	TZ Limits Initial Positio	n Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
	Network	>	Basic			<b>~</b>					
$\odot$	🖹 Storage		Preset								
	5 Event	>	Preset Freezing								
ø	🔊 PTZ		Onvif Preset compatible S	Settings Normal	~						
	I System	>	Speed								
			Preset Speed	5	~						
			Manual Speed	Medium	~						
			Patrol								
			Patrol Recovering								
			Patrol Recovery Time	10		s (5-720s)					
			Focus								
			Focus Mode	Semi-Auto	~						
			Minimum Focus Distance	e 1.m	~						
			PTZ OSD			>					
			Others								
			Save								
											· ·

Table 69. Description of the buttons

Parameters	Function Introduction
Preset	If you enabled Preset Freezing, the live view of preset position will be showed directly instead of showing both the moving path to the position and the live view. It can also reduce the use of bandwidth in the digital network system.
	<b>Preset Speed:</b> It determines the speed of calling presets. Level 1~10 are available.
Quere la	Manual Speed: It determines the PTZ speed of Manually control. Low/ Medium/ High are available.
Speed	Scan Speed: It determines the speed of Auto Scan. Level 1~10 are available.
	Patrol Recovering: Click to enable Patrol Recovering.
Patrol	<b>Patrol Recovery Time</b> : Set time for Patrol Recovering, which is between 5 to 720 seconds.
	Focus Mode: Three focus modes are available: Auto/ Semi-Auto/ Manual.
Focus	<b>Minimum Focus Distance</b> : Set the minimum focus distance to adjust the step length of each focus. 1 meter, 1.5 meters, 3 meters, 6 meters, 10 meters and 20 meters are available. The default minimum focus distance is 1 meter.

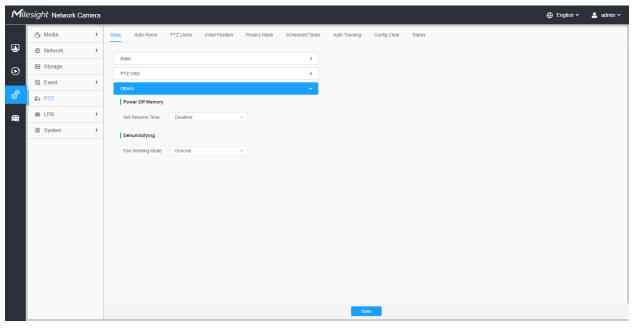
## [PTZ OSD]

Mile	esight ·Network Car	nera										🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Bas	ic Auto Home	e PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
۲	Network	>		Basic				>					
$\odot$	🗄 Storage			PTZ OSD				~					
	5 Event	>		Zoom Status	Always Ope	1 ×	-						
ø	🔉 PTZ			Pan & Tilt Statu:	Always Ope	n .							
龠	LPR	>		Preset Status	Always Ope	n >							
	System	>		Patrol Status	Always Ope	n ×							
				Pattern Status	Always Ope	n s							
				Auto Scan Statu	s Always Ope	n .							
				Others				>					
									Sa	ve			

#### Table 70. Description of the buttons

Parameters	Function Introduction
Zoom Status	2s/ 5s/ 10s/Always Open/ Always Close are available.
Pan & Tilt Status	2s/ 5s/ 10s/Always Open/ Always Close are available.
Preset Status	2s/ 5s/ 10s/Always Open/ Always Close are available.
Patrol Status	Always Open/ Always Close are available.
Pattern Status	Always Open/ Always Close are available.
Auto Scan Status	Always Open/ Always Close are available.

### [Others]

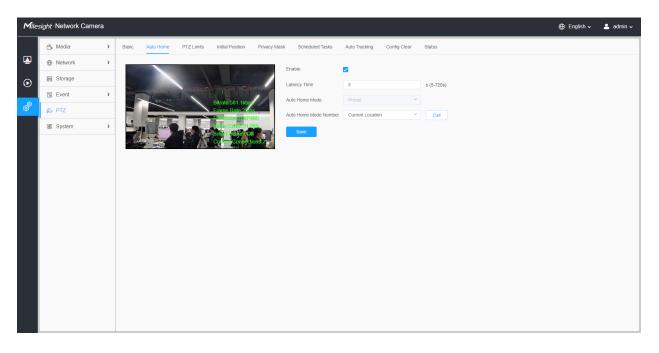


### Table 71. Description of the buttons

Parameters	Function Introduction					
Power Off Memory	If the camera stop working for a longer time than predefined, the position of it will be recorded. And it will resume to the position after going back to the normal work from power off. You can set the resume time to 30 seconds, 60 seconds, 300 seconds or 600 seconds to record its position.					

Parameters	Function Introduction
	<b>Fan Working Mode:</b> Three fan working modes are available: General/ Enhancement/ Constant.
Dehumidifying	<b>General:</b> The fans are turned on from 4am to 7am and 5pm to 8pm every day.
	Enhancement: The fans are turned on from 5pm to 7am every day.
	Constant: The fans work 24 hours a day.

## 8.5.2 Auto Home



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

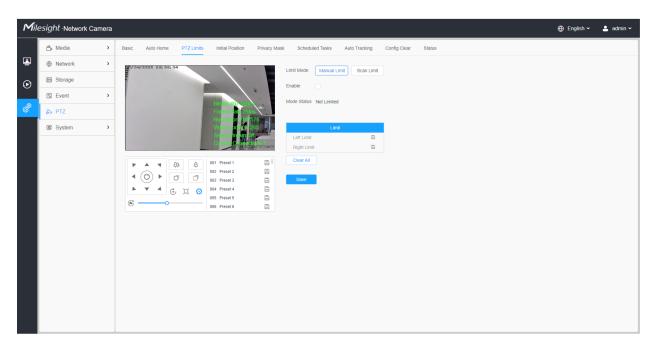
#### Table 72. Description of the buttons

Parameters	Function Introduction
Enable	Enable/disable the auto home function.
Latency Time	Set a latency time to trigger Auto Home mode, 5-720s.
Auto Home Mode	Preset: A preset point will take effect when triggering the Auto Home.

Parameters	Function Introduction
Auto Home Mode Number	Select a predefined preset in the list, press "Call" to check the location. Also support to select current location.

## 8.5.3 PTZ Limits

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



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

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

• Manual Limit:

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

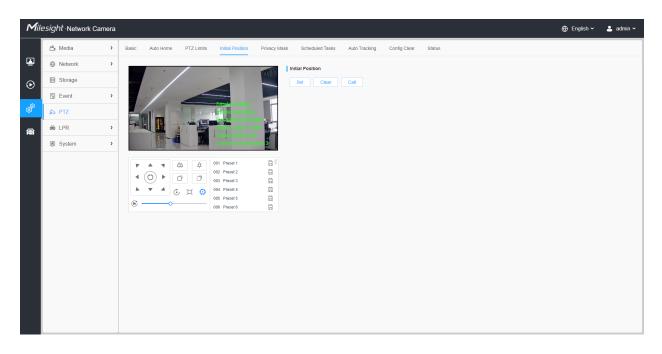
Scan Limit:

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

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

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

## 8.5.4 Initial Position



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

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

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

Table 73. Description of the buttons

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

## 8.5.5 Privacy Mask

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

Mile	esight Network Cam	iera												🕀 English 🗸	💄 admin 🗸
	🗂 Media	>	Basic A	uto Home	PTZ Limits	Initial Position	Privacy Mas	k Scheduk	d Tasks Auto	Fracking Config	Clear Statu	IS			
۲	Network	>					107 1-	Enable 🔽							
$\odot$	E Storage			/		-		ID	Name	Туре	Enable	Active Zoom Ratio	Operation		
	la Event	>	-	/				1	Privacy Mask1	White		1			
ø	🔊 PTZ				1.11	Frame Rate 251p	5								
	A LPR	>				Video Codec:H.2 Smart Stream Of	64								
	System	>				Current Connect	ons <mark>3</mark>								
			Type O			001 Preset 1 002 Preset 2 003 Preset 4 005 Preset 6 005 Preset 6		Delete All							

### [Privacy Mask]

You can select the color to use for the cover certain areas on the live video.

#### Note:

• For the MS-Cxxxx-xPA model, up to 24 mask areas are supported.

 Table 74. Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the Privacy Mask function
Add	Add the current drawing area as Privacy Mask
Clear	Clear the current drawing area

Parameters	Function Introduction
Delete All	Clear all areas you drew before
Name	Support to customize the name of Privacy Mask
Туре	Select the color for the privacy areas, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red, Violet
Active Zoom Ratio	Set the value of Active Zoom Ratio according to your need, and then the mask will only appear when the zoom ratio is greater than the predefined value

## 8.5.6 Schedule Tasks

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

Mile	esight ∙Network Camera		🕀 English 🗸	💄 admin 🗸
	🖧 Media 🔸	Basic Auto Home PTZ Limits Initial Position Privacy Mask Scheduled Tasks Auto Tracking Config Clear Status		
۲	Network     Network	Enable 🔽		
$\odot$	E Storage	Schedule Settings		
	S Event >	ονισυμε σεωτημο		
ø	S PTZ	SunCloseAuto Scan		
	le LPR	Mon Auto Scan Preset Tue Patrol		
	System ➤	WedPattern ✓ Check		
		Tru. Fr. Sat. Select All Cear All Select All Cear All Latency Time 6 (5-720s) Save		

- Step1: Enter the Scheduled Task Settings interface:
- Step2: Check the check box to Enable Scheduled Task.
- Step3: Set the schedule and task details.

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

Step5: Click Save button to save all the configurations.

#### Note:

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

## 8.5.7 Auto Tracking

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

**Note:** In non-associated conditions, the priority for Auto Tracking is:VCA Event > Auto Tracking > Motion Detection.

Settings steps are shown as follows:

Step1: Check the check box to enable Auto Tracking;

**Step2:** Check the check box to enable Report to Motion Detection. The motion detection alarm will be triggered during auto tracking.

**Note:** Please enable motion detection first.

#### [Basic Settings]

Step3: Enable "Show Tracking" to show tracking in Auto Tracking function.

Step4: Set detecting sensitivity;

**Step5:** Set Max. Tracking Time which must be between 5~300s. The camera will stop tracking when the tracking time is used up.

**Step6:** Set Tracking Zoom Ratio including Auto Mode and Customize. The camera will automatically adjust tracking zoom ratio when Auto Mode is chosen. When Customize is chosen, user needs to set the tracking zoom ratio first by adjusting zoom button, then camera will automatically track the moving objects according to customized tracking zoom

ratio and the object's proportion in the picture at the moment. At the same time, the object will always keep the same proportion in the picture during the tracking process.

**Step7:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events;

#### [Schedule Settings]

Step8: Set Auto Tracking schedule.

Step9: Draw the screen to set the detection region.

**Step10:** Click Save to save the configuration.

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

## 8.5.8 Config Clear

Mil	esight ·Network Cam	era									🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
<b>a</b>	Network	>	Config Clear									
$\odot$	E Storage		All									
	5 Event	>	All Presets	🛃 All Patrols	🛃 All Pa	atterns						
ø	🔊 PTZ		All Auto Homes All Privacy Masks	All PTZ Limits		theduled Tasks						
	A LPR	>	Clear									
	I System	>										

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

## 8.5.9 RS485

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

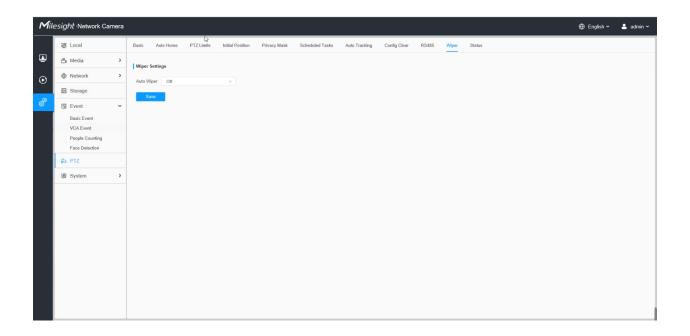
**Note:** This function is only for Speed Dome.

Mill	esight ∙Network Car	nera											🕀 English 🗸	💄 admin 🗸
۵	thedia Video Image	,	Basic Auto	o Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	RS485	Status		
$\odot$	Audio		Protocol	Pelco-D		~								
	Network	>	Baudrate	9600		~								
ø	E Storage		Data Bit	8		~								
	5 Event	>	Stop Bit	1		~								
	🔊 PTZ		Parity	None		×								
	l System	>	Flow Control	None		×								
			PTZ Address	1										
			Save											

## 8.5.10 Wiper

Here you can turn on the smart wiper function to control the wiper of speed dome camera. After the smart wiper function is enabled, the wiper of the speed dome camera will automatically start working in rainy weather, and the working frequency of the wiper will be adjusted intelligently according to the rainfall like.

**Note:** This function is only for AI Speed Dome with Smart Wiper.



## 8.5.11 Status

#### **Status Info**

Here you can see the status information for PTZ camera, including temperature and fan status.

#### **Problem Diagnosis**

By pressing the check button, you can export the PTZ diagnostic logs.

Miles	<i>sight</i> ·Network Came	ra										⊕ English ∽	💄 admin 🗸
	🖧 Media	>	Basic Auto	Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
	Network	>	Status Info										
$\odot$	E Storage		Temperature	54.95°	c								
	🗟 Event	>	Fan Problem Diagi	Workin									
ø	🔊 PTZ		Check	10313									
	System	>	Check										

# 8.7 System

Here you can configure System Setting, Security, Logs and Maintenance.

## 8.7.1 System Setting

Here you can check System information and Date&Time.

### 8.7.1.1 System info

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

Mile	≘ <i>sight</i> ∙Network Carr	nera		⊕ English ∽	💄 admin '
	🖧 Media	>	System info Date&Time		
•	Network	>	Device Name Network Camera		
•	🗄 Storage		Product Model MS-C2962-TFIPA		
	Event	>	Hardware Version V1.1		
Ŷ	國 System	~	Software Version 31.8.0.1-a3		
	System Setting Security		MAC Address IC C3 16:11:2A B9		
	Logs		Device Information A2103Ee372N2		
	Maintenance		Alarm Input 1		
			Alarm Output 1		
			Uplime 1 days 10 hours 39 minutes		
			Save		

## Table 75. Description of the buttons

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.
LPR License	Generated by camera's information.
(Only for LPR2, LPR3, LPR 4)	<b>Note:</b> Only for LPR Series.
License Status	Show present license status, including Valid and Invalid
(Only for LPR2, LPR3, LPR 4)	<b>Note:</b> Only for LPR Series.
MAC Address	Media Access Control address.
S/N	Stock Number.
Device Information	The device information, including information about alarm I/O and clipper chip.
	The number of Alarm Input interface.
Alarm Input	<b>Note:</b> The Alarm Input will appear only when the camera have alarm input/ output interface.

Parameters	Function Introduction
Alarm Output	The number of Alarm Output interface.  Note: The Alarm Output will appear only when the camera have alarm input/ output interface.
Uptime	The elapsed time since the last restarted of the device.
Save	Save the configuration.

## 8.7.1.2 Date&Time

Mile:	sight ·Network Camera		🕀 English 🗸	💄 admin 🗸						
	🖧 Media 🔹 🔸	System Info								
4	Network >	Current System Time								
$\odot$	🖹 Storage	Date 08/04/2023								
	S Event >									
ø	@ System ∽	·								
	System Setting	Set the System Time								
	Security	Time Zone (UTC-08-00) United States - Pe V								
	Logs Maintenance	Daylight Saving Time Automatic								
		Synchronize Mode O NTP server O Manual O Synchronize with computer time								
		Server Address pool ntp.org								
		NTP Sync 🔽								
		Interval 1440 min. (1-43200)								
		Save								

## Table 76. Description of the buttons

Parameters	Function Introduction
Current System Time	Current date&time of the system.
Set the System Time	Time Zone: Choose a time zone for your location.
Set the System Time	Daylight Saving time: Enable the daylight saving time.

Parameters	Function Introduction
	Synchronize Mode: NTP server, Manual and Synchronize with computer time are optional.
	NTP server: Input the address of NTP server.
Set the System Time	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.
Save	Save the configuration.

## 8.7.2 Security

Here you can configure User, Access List, Security Service, Watermark, etc.

### 8.7.2.1 User

Mile	esight ·Network Ca	amera			
	🖧 Media	>	User Online User Access L	ist Security Service	Watermark About
	Network	>	Manage Privilege		
$\odot$	E Storage		Allow Anonymous Viewing		
	la Event	>	Security Question		
ø	e loT	>	Security Question Edit		
	System	~	Account Management (j)		
	System Setting Security		ID User Name	Privilege	Operation
. I	Logs		1 admin	Administrator	
-	Maintenance		Add		
			Save		

### Table 77. Description of the buttons

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

Parameters	Parameters Function Introduction						
		y questions for your camera. In case that you orget Password" button on login page to reset the questions correctly.					
	Security Question Settings ×						
	Admin Password*						
	Security Question1 What	s your father's name?					
	Answer1*						
	Security Question2 What	's your father's name?					
	Answer2*						
	Security Question3 What	s your father's name?					
	Answer3*						
Security Question	Save	Cancel					
	There are twelve default questions be questions.	low, you can also customize the security					
	What's your father's name?						
	What's your father's name?						
	What's your favorite sport?	What's your favorite food?					
	What's your mother's name?	What's your lucky number?					
	What's your mobile number?	What's your favorite color?					
	What's your first pet's name?	What's your best friend's name?					
	What's your favorite book?	Where did you go on your first trip?					
	What's your favorite game?	Customized Question					
	L						

Parameters	Function Introduction
	Click " <b>Add</b> " button, it will display Account Management page. You can add an account to the camera by entering Admin Password, User Level, User Name, New Password, Confirm, and edit user privilege by clicking. The added account will be displayed in the account list.
	Admin Password: You can add an account only after you enter the correct admin password.
	User Level: Set the privilege for the account.
	User Name: Input user name for creating an account.
Account Management	New 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:
	<ul> <li>Support up to 20 users, including a default user and 19 custom added users.</li> <li>The operator privilege is all checked by default.</li> </ul>

### 8.7.2.2 Online User

Here real-time status of user logging in camera will be shown.

Mile	sight Network Ca	amera					
	🖆 Media	>	User	Online User	Access List Sec	curity Service W	/atermark About
	Network	>	Online	User			
$\odot$	E Storage		ID	User Name	User Level	IP Address	Login Time
	5 Event	>	1	admin	Administrator	192.168.69.234	2022-03-27 16:27:22
ø	e loT	>	2	admin admin	Administrator	192.168.69.22 192.168.69.48	2022-03-27 15:28:34 2022-03-27 15:27:37
	System	~		fresh	Administrator	192.100.09.40	2022-03-27 15.27.37
	System Setting		- No				
	Security						
	Logs Maintenance						

Table 78. Description of the buttons

Parameters	Function Introduction
Refresh	Click to get latest status of user accessing to camera.
ID	<ul> <li>Record serial number of user logging in camera.</li> <li>Note:</li> <li>There are at most 30 records shown at the list.</li> <li>There is only one record if the same user logging on camera by the same IP address.</li> </ul>
User Name	Name of user logging in camera.
User Level	Level of user logging in camera.
IP Address	Device IP address where user logging in camera web located.
Login Time	Camera system time of user logging in camera.

## 8.7.2.3 Access List

Mile	sight Network Ca	mera				
	🖧 Media	>	User Online User	Access List	Security Service	Watermark About
۲	Network	>	General Settings			
$\odot$	E Storage		Max. Number of Connecti	ion 10		×
	Event	>	Access List			
ø	፼ loT	>	Enable Access List Filterin	ng		
	System	~	Filter Type	<ul> <li>Allow</li> </ul>	<ul> <li>Deny</li> </ul>	
	System Setting Security		ID Rule		Address	Operation
!	Logs				No Data	
	Maintenance		Add Delete All			
			Save			

## Table 79. Description of the buttons

Parameters	Function Introduction
General Settings	Max. Number of Connection: Select the maximum number of concurrent streaming. Options include No Limit, 1~10.

Parameters	Function Introduction					
Access List	Enable Access List Filtering: Able to access or restrict access for some IP address.					
	Filter type: Allow or	deny access.				
	Add	Rule: Single, Network and Range are available. IP address: Input the address to get the access to the device.				
Access List	Delete All	Delete all the access list.				
	D	Edit the selected IP on access list.				
	Ē	Delete the selected IP on access list.				
Save	Save the configuration.					

## 8.7.2.4 Security Service

Mile	e <i>sight</i> ∙Network Ca	amera					⊕ English ∽	💄 admin 🗸
	🖧 Media	>	User Online User	Access List	Security Service	Watermark	k About	
	Network	>	SSH Settings					
$\odot$	E Storage		Enable 🔽					
	5 Event	>	SSH Port 6022					
ø	e loT	>	Save					
	System	~						
	System Setting Security							
	Logs							
	Maintenance							

### Table 80. 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.

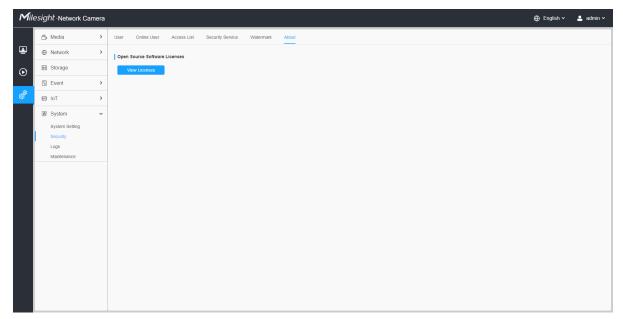
### 8.7.2.5 Watermark

thedia ⊕ Network	>		
(D) Maturati	,	User Online User Access List Security Service Watermark About	
W Network	>	Watermark Settings	
😫 Storage		Enable	
5 Event	>	Watermark String IP CAMERA	
e⊡ loT	>	Save	
System	~		
System Setting			
Logs			
Maintenance			

Watermarking is an effective method to protect information security, realizing anticounterfeiting traceability and copyright protection. Milesight supports Watermark function to ensure information security.

**Note:** Watermark function is only supported on MS-Cxxxx-PA models.

#### 8.7.2.6 About



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

## 8.7.3 Logs

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

🖰 Media	>	Logs						
Network     Network	>	Main Type All Types	✓ Sub Type All Types	V Start Time (b) 2022-	03-27.00:00:00 End Time	<ul> <li>(b) 2022-03-27 23:59:59</li> </ul>		Search
🗄 Storage								
3 Event	>	Time 2022-03-27 16:27:22	Main Type Operation	Sub Type RTSP Session Start	Param	User	IP 192.168.69.234	Detail
		2022-03-27 16:27:22	Operation	RTSP Session Start	-		192.168.69.234	RTSP
፼ IoT	>	2022-03-27 16:27:22	Operation	Video Param Set Remotely			192.168.69.234	Main(bit rate change.)
System	~	2022-03-27 16:27:22	Operation	RTSP Session Start		admin	192.168.69.22	HTTP
System Setting		2022-03-27 16:27:22	Operation	Config Remotely	Date&Time	admin	192.168.69.234	
Security		2022-03-27 15:29:09	Operation	RTSP Session Stop		admin	192.168.69.22	HTTP
Logs		2022-03-27 15:28:34	Operation	RTSP Session Start	-	admin	192.168.69.22	HTTP
Maintenance		2022-03-27 15:28:34	Operation	Login Remotely		admin	192.168.69.22	
		2022-03-27 15:28:00	Operation	RTSP Session Stop		admin	192.168.69.22	HTTP
		2022-03-27 15:27:37	Operation	Login Remotely		admin	192.168.69.48	
		2022-03-27 15:27:34	Operation	RTSP Session Start	-		192.168.69.48	RTSP
		2022-03-27 15:27:33	Operation	RTSP Session Start	-		192.168.69.48	RTSP
		2022-03-27 15:27:23	Operation	Config Remotely	Date&Time	admin	192.168.69.234	
		2022-03-27 15:25:40	Operation	Reset Remotely	-	admin	192.168.69.22	
		2022-03-27 15:25:39	Operation	RTSP Session Stop	-		192.168.69.48	RTSP
		2022-03-27 15:25:39	Operation	RTSP Session Start			192.168.69.48	RTSP
		2022-03-27 15:25:38	Operation	RTSP Session Start	-		192.168.69.48	RTSP
		2022-03-27 15:25:31	Operation	RTSP Session Start	-		192.168.69.48	RTSP
						Total 1122 30/page V	1 2 3 4 5 6	38 > Go to 1

 Table 81. Description of the buttons

Parameters	Function Introduction
Main Type	There are five main log types: <b>All Type, Event, Operation, Information, Exception</b> and <b>Smart.</b>
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.
Search	Search the logs.

Parameters	Function Introduction
Export	Export the logs.
Go to	Input the number of logs' page.

## 8.7.4 Maintenance

Here you can configure System Maintenance and Auto Reboot.

### 8.7.4.1 System Maintenance

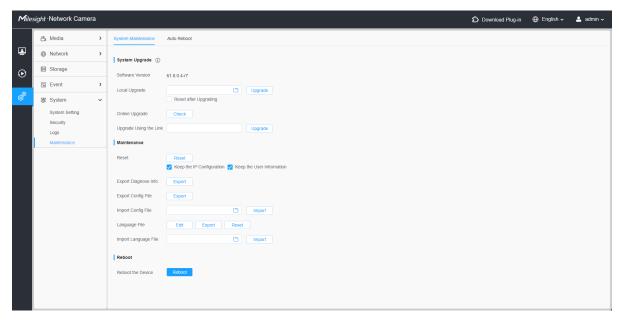


Table 82. Description of the buttons

Parameters	Function Introduction
	<ul> <li>Software Version: The software version of the camera.</li> <li>Local Upgrade: Click the "Browse" button and select the upgrading file, then click the "Upgrade" button to upgrade. After the system reboots successfully, the update is done.</li> <li>You can check "Reset after Upgrading" to reset the camera after upgrading it.</li> <li>Online Upgrade: Click the "Check" button to check the current latest firmware version on our website, and then click "OK" to upgrade to this version.</li> <li>It will prompt "The current version is the latest version" if your camera is already the latest version.</li> </ul>
System Upgrade	Tips       ×         Image: The current version is the latest version.
	ок Upgrade Using the Link: When you have uploaded the upgrading file to the cloud, like Google Driver, etc., you can input the link address and then click the
	"Upgrade" button to upgrade. <b>Note:</b> Do not disconnect the power of the device during the update. The device will be restarted to complete the upgrading.

Parameters	Function Introduction
Maintenance	Reset: Click "Reset" button to reset the camera to factory default settings.         Keep the IP Configuration: Check this option to keep the IP configuration when resetting the camera.         Keep the User information: Check this option to keep the user information when resetting the camera.         Export Diagnose Info: Click this button to export logs and system information of the device operation status.         Image: Note: The file format is ".txt".         Export Config File: Click this button and a window will pop up as shown below:         Image: File Encryption Configuration         Image: Save       Cancel         You need to enter and confirm password again, then click save button to export configuration file.         Import Config File: Click this button, then a window will pop up and you can click "OK" to update the configuration.         It will pop up a window to prompt "Input the password of config file" , then enter password and click save button to import configuration file.
	Input the encryption password Save Cancel
	<ul> <li>Note:</li> <li>Export and import the same configuration file. Password must be the same.</li> <li>Language File: Here, you can edit, export, and reset the language file.</li> <li>Import Language File: Import the language file then click the "Import" button, then a window will pop up and you can click "OK" to update the configuration.</li> <li>It allows you to modify or import predefined language translation packs, enabling you to customize the interface language based on your preferences, achieving better adaptation to various linguistic environments.</li> </ul>

### 8.7.4.2 Auto Reboot

Mil	esight ·Network Ca	mera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	System Maintenance Auto Reboot		
	Network     Network	>	Auto Reboot Settings		
$\odot$	😫 Storage		Enable		
	la Event	>	Day Everyday V		
Ø	ee loT	>	Time (© 00.00.00		
	🗷 System	~	Save		
	System Setting Security				
	Logs				
	Maintenance				
		_	1		

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.

# Chapter 9. Services

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

Technical Support Mailbox: support@milesight.com

Web: http://www.milesight.com

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

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