



## Network Camera User Manual

## Al Series

Version: V9.0 Date: 2022-07-26

Chapter 1. Introduction	5
1.1 Copyright Statement	5
1.2 Industry Canada ICES-003 Compliance	5
1.3 Safety Instruction	5
1.4 EU Conformity Statement	6
1.5 Revision History	6
Chapter 2. Product Description	7
2.1 Product Overview	7
2.2 Key Features	7
2.3 System Requirements	9
Chapter 3. Configuration Flow	10
Chapter 4. Network Connection	12
4.1 Setting the Camera over the LAN	12
4.1.1 Connect the Camera to the PC Directly	12
4.1.2 Connect via a Switch or a Router	
4.2 Dynamic IP Connection	12
Chapter 5. Accessing the Network Camera	14
5.1 Assigning An IP Address	14
5.1.1 Assigning An IP Address Using Smart Tools	14
5.1.2 Assign An IP Address via Browser	18
5.2 Accessing from the Web Browser	20
5.3 Accessing from Milesight Back-end Software	21
5.3.1 Accessing from Milesight NVR (Network Video Recorder)	
5.3.2 Accessing from Milesight CMS (Center Management System)	21
5.3.3 Accessing from Milesight VMS Enterprise (Video Management System)	
Chapter 6. Live View	24
6.1 Live Video	
6.2 Face Detection Mode	27
6.3 PTZ Mode	
6.3.1 Operations on Live View Page	31
6.3.2 3D Positioning	
6.3.3 Set / Call a Preset / Patrol / Pattern	

6.4 LPR Mode	
Chapter 7. Playback	43
Chapter 8. Settings	48
8.1 Media	
8.1.1 Video	
8.1.2 Image	51
8.1.3 Audio	
8.2 Network	
8.2.1 Basic	
8.2.2 Advanced	
8.3 Storage	96
8.3.1 Storage Management	96
8.3.2 Record Settings	
8.3.3 Snapshot Settings	
8.3.4 Explorer	
8.4 Event	
8.4.1 Basic Event	
8.4.2 VCA Event	
8.4.3 People Counting	
8.4.4 Face Detection	
8.4.5 Heat Map	
8.5 PTZ	
8.5.1 Basic	
8.5.2 Auto Home	
8.5.3 PTZ Limits	
8.5.4 Initial Position	
8.5.5 Privacy Mask	
8.5.6 Schedule Tasks	
8.5.7 Auto Tracking	
8.5.8 Config Clear	
8.5.9 RS485	
8.5.10 Status	

8.6 LPR (Optional)	
8.6.1 Settings	
8.6.2 Smart Search	
8.7 IoT (Optional)	
8.7.1 Settings	
8.7.2 Alarm Settings	225
8.8 System	
8.8.1 System Setting	
8.8.2 Security	
8.8.3 Logs	237
8.8.4 Maintenance	
Chapter 9. Services	

## 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 Technology 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 Industry Canada ICES-003 Compliance

This Class B digital apparatus complies with Canadian ICES-003.

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

## 1.3 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

## 1.4 EU Conformity Statement

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

2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury(Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see:www.recyclethis.info.

## 1.5 Revision History

Version	<b>Revision Content</b>	Release Date
V9.0	First release	June 2022

## 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 & Q & 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
- 3 in 1 Super WDR Pro
- Support HLC
- Support 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

### **Advanced Function**

- Motion Detection, Privacy Masking, Network Fault Detection and ROI
- Support AI 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
- $360^{\circ}$  continuous pan and  $-5^{\circ} \sim 90^{\circ}$  (Auto Flip) tilt for Speed Dome
- 360° continuous pan and -45°~30° tilt for PTZ Bullet
- $360^{\circ}$  continuous pan and  $-5^{\circ} \sim 90^{\circ}$  (Auto Flip) tilt for PTZ Dome
- 300 Preset Points, 8 Patrols and 4 Patterns
- Auto Tracking, 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/Vista/7/8/10/Server 2000/Server 2008

CPU: 1.66GHz or higher

**RAM:** 1G or higher

Graphic memory: 128MB or more

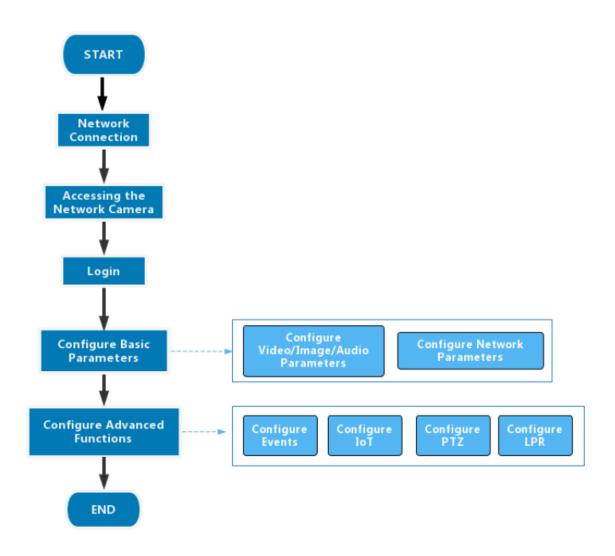
Internet protocol: TCP/IP (IPv4/IPv6)

**Web Browsers:** Internet Explorer 8.0 and above version, Mozilla Firefox, Google Chrome and Safari.

## Chapter 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 1. 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 48) 8.2 Network (page 70)		
Configure Advanced Functions	Configure the advanced functions, such as VCA and people counting.	<u>8.4 Event <i>(page 101)</i></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.

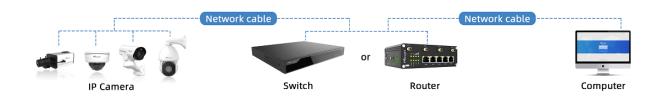
### 4.1.1 Connect the Camera to the PC Directly

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;

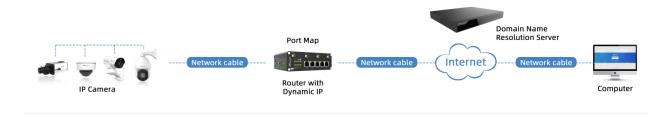
Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;

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;

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Ì	▶ <sup>×</sup> IP	°C Tools									A Passwor Q Search h	
	No.	Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
	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	0
5	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
	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	0
5	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-Alo	0
	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	0
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	0
	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	0
5	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
	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	0
С	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
		Device Name: Netv	vork Came	ra IP: 192.168.6	9 .204 Ports	80	Netmask:	255.255.255.0	Gateway: 19	2.168.69 .1	DNS: 8.8.8	.8
									Activate	📥 Export Devic	e List 🛛 🗶 f	
per	ating In	formation										
			_									
										<u> </u>	we 🗵	

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

Select single camera:

6	, IP	C Tools		Network		 P	review L	G Jograde			¢ ▲ admin A Password Q Search he	
	No.	Device Name 🔺	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
С	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	Θ
C	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
С	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	3
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
n	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	0
	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	0
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	0
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
C	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	Θ
1/38 Oper		Device Name: Netw	rork Came	ra IP: 192.168.6	9 .204 Port:	80	Netmask:	255.255.255.0	Gateway: 19	2.168.69 .1	DNS: <b>8 .8 .8</b> e List XM	.8 odify
							V2.4.0.4			E Sa	we 🛞 C	lear

### Select multiple cameras:

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	⊾` IP	C Tools									ssword arch here
	No.	Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model Run-up Time	Version	Webpage
П	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	Θ
C	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-Alo	() (
	.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		MS-C5367 2022-03-15 09:		0
•	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	0
		🔵 Same IP	Start IP:	192.168.69 .96	Porte <mark>80</mark>		letmask: 255.255	5.240.0	Gateway: 192.168.69 .1	DNS: 8.8	3 .8 .8
									🕖 Activate 📥 Export		Modify
Opera	iting In	formation									
										Save (	🗵 Clear

**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.

	6		- 🛪 -	- Ø	- 9		adn		
	IPC Tools							sword rch here	
		Status MAC		Port Netmask	Gateway	Model	Run-up Time 2018-12-19	Version 40.7.0.65-pwd-	
	59 Network Camera	Inactive 1C:C3:16:24:09:D2	192.168.5.190	80 255.255.255.0	192.168.5.1	MS-C2964-FPB	17:48:04	a6 41.7.0.65-pwd-	6
	C CO Naturdi Orman	Activation			× 168.7.1	MS-C3762-FIPB MS-C4472-FIPB	17:43:15 2018-12-24	a6 41.7.0.68-a6	9
IPC Tools					168.5.1 168.7.1	MS-C4472-FIPB MS-C2975-PB	15:00:51 2018-12-24	40.7.0.68	6
	~				168.7.1	MS-C5362-EPB	17:02:43 2018-12-18	41.7.0.65-pwd-	6
	3				168.2.1	MS-C2862-FPB	16:10:37 2018-12-21 16:44:30	a6 41.7.0.68-a6	6
	User Name: admin				168.5.1	MS-C2963-PB	2018-12-18	40.7.0.67-r21	d
	Password:				168.7.1	MS-C2972-FPB	2018-12-20 13:27:14	40.7.0.67-r10	C
	Confirm: ( Set the Security Question				168.7.1	MS-C5372-FIPB	2018-12-18 22:18:58	41.7.0.67-ptz- dome-a6	C
		our father's name?		•	168.7.2	MS-C3772-FIPB	2018-06-15 17:10:58	41.7.0.65-r4	e
NVR Tools	Security Answer 1:				168.7.1	MS-C4482-PB	2018-12-20 16:15:03	41.7.0.65-pwd- a6	9
		our father's name?		•		_			
	Security Answer 2: Security Question 3: What's y	our father's name?			255.0			45. 8. 8. 8) EU	
	Security Answer 3:	our rather's name?				🥑 Activate 🛓	Export Device L	ist 🗙 Mod	
						2			
									- 1
Calculators								~	_
				V2.4.0.1-a8	Save		💾 Sa	ve 🚫 Clear	

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

0							Ø—	- 6		adı		
	.` IP(	C Tools						Upgrade			345678 arch here	
	No.	Device Name	Status	MAC	IP	A 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
C	59	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.1	00 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	192.168.7.1	04 80	255.255.240.0	192.168.7.1	MS-C2962-FIPB	2019-09-02 03:22:14	40.7.0.69-r11	e
	61	Network Camera	Active	1C:C3:16:24:09:	192.168.7.1	14 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	192.168.7.1	24 80	255.255.240.0	192.168.9.2	MS-C2962-FPB	2019-09-26	41.7.0.71-r35	6
C	63	IPCAM	Active	1C:C3:16:21:FA:67	192.168.7.1	32 80	255.255.255.0	192.168.5.1	MS-C3772-FIPB	2019-09-27	41.7.0.71-r15	6
С	64	Network Camera	Active	1C:C3:16:24:66:A1	192.168.7.1	61 80	255.255.240.0	192.168.5.1	MS-C2962-FPB	2019-09-26 09:46:16	40.7.0.71-r8	6
C	65	Network Camera	Active	1C:C3:16:22:19:6F	192.168.7.2	01 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	192.168.7.2	02 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	192,168,7,2	12 80	255,255,240.0	192.168.7.1	MS-C2972-FPB	23:53:33 2019-09-25	40.7.0.71-r15	
<u> </u>	60	2021100000000	Activo	10-02-18-21-22-	102 169 7 2		255 255 240.0			14:19:04 2019-09-26	40.7.0.71.+15	C
1/386		evice Name: etwor	k Camer	a IP: 192.168.7	11/1 Port	80	Netmask: 25	5 255 240 0	Gateway: 192.	168.7 .1 DN	18: 8.8.8.8	
		Sense Marrie. Cawor	K Gamen	102.100.7		00	116111251. 25	0.233.240.0				
Operatir								(e	) Activate 📥	Export Device Li	st 🗶 Moc	
1		9-09-30 09:10:53		<b>.</b>	[1C:C3:16:24:0	9:D2] Modi	fy IP:192.168.7.11	3->192.168.7.1	14 successfully.			
					-	-						
										😐) Sav		
						V2.4	.0.1-r6			Jaw	e 🚫 Clear	

**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.

- 6	Language English v
etwork Camera etwork Camera etwork Camera amin etwork Camera amin etwork Camera amin etwork Camera amin etwork Camera etwork Camera amin etwork Camera etwork Camera etwork etwork Camera etwork etwork etwork etwork etwork etwork etwork etwork etwork etwork etwork etwork etwork etwork etwork etwork etwork etwork	
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 $\rightarrow$ Control Panel $\rightarrow$ Network and Internet Connection $\rightarrow$ Network Connection $\rightarrow$ Local Area Connection, and double click it;

Internet Protocol Version 4 (TCP/IPv4)	Properties ? X
General	
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	
Obtain an IP address automatical	ly
O Use the following IP address:	
IP address:	192 . 168 . 1 . 10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.1.1
<ul> <li>Obtain DNS server address auton</li> <li>Use the following DNS server add</li> </ul>	
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 Set	tings	? ×
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 met		
	ОК	Cancel
TCP/IP Address		? ×
IP address:	192.168.5.6	1
Subnet mask:	255 . 255 . 255 . 0	
	Add	Cancel

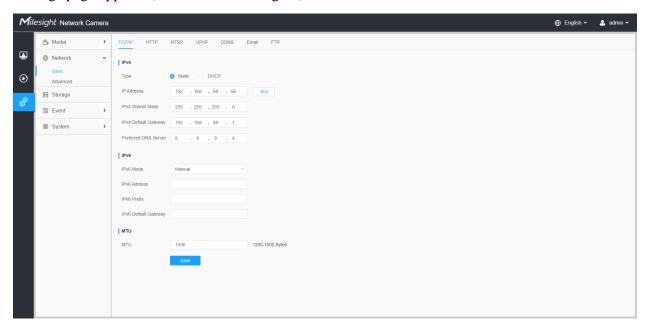
**Step2:** Start the browser. In the address bar, enter the default IP address of the camera: <u>http://192.168.5.190;</u>

**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"  $\rightarrow$  "Network"  $\rightarrow$  "Basic"  $\rightarrow$  "TCP/IP". The Network Settings page appears (Shown as below Figure);



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 multi-disk 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.

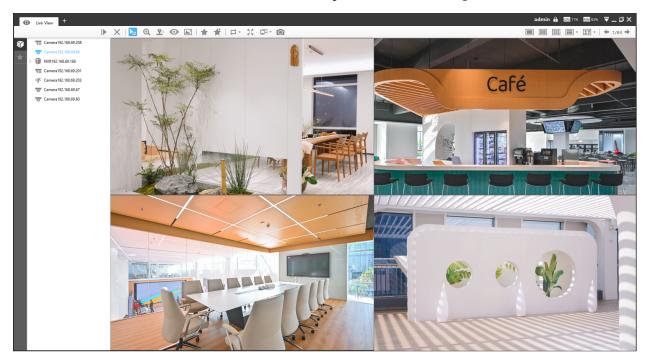
For detailed information about how to use the Milesight NVR Series, please refer to *Milesight NVR User Manual*.



### 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 <u>https://www.milesight.com/</u>.

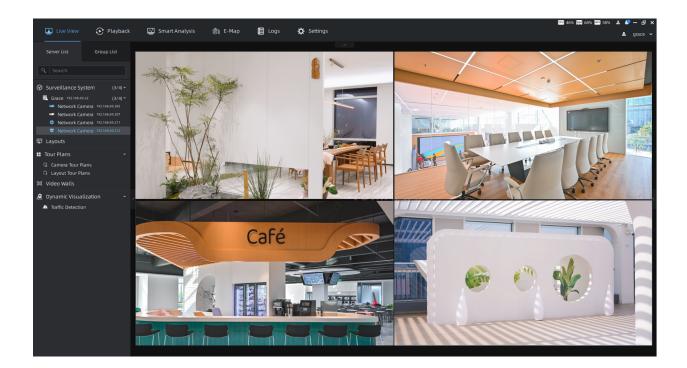
Please install Milesight CMS; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to *Milesight CMS User Manual*.



# 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 https://www.milesight.com/.

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 2. 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.	

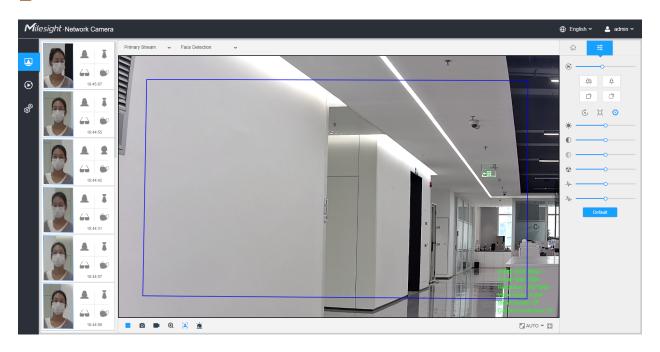
No.	Parameter	Description		
5	💄 admin 🗸	Display the user name and click to logout.		
6	Primary Stream 🗸	Choose the stream ( <b>Primary/Secondary/Tertiary</b> ) to show on the current video window.		
		Choose the options (Hide Detection Region/Region Entrance/ Region Exiting/Advanced Motion/Line Crossing/Loitering/ People Counting/Object Left/Object Remove/Regional People Counting) to hide/display detection region on the current video window.		
7	Regional People Counting ~	Image: Water and the second		
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>ពុំរ៉ា</mark> Alarm	When an alarm of people counting was triggered, the icon appears.		
11	💸 Alarm	When an alarm of Motion Detection was triggered, the icon appears.		
12	Alarm	Except for the three kinds of alarms above, when other alarms were triggered, the icon appears.		

No.	Parameter	Description
13	Stop/Play	Stop/Play live view.
14	<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.
15	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> .
16	<b>€</b> Digital Zoom	When enabled, you can zoom in a specific area of video image with your mouse wheel.
17	Manual Output	Manually trigger Camera Alarm Output.
18	Kanto ∽ Window Size	Click to display images at a window size.
19	Full Screen	Click to display images at full-screen.
20	Face Detection	Click to enable the Face Detection Mode.  Note: Only appears when your camera is MS-Cxxxx-xPC.
ŝ	Wall/Ceiling	Click to access installation. And the AI algorithm will change according to the installation (Wall algorithm/Ceiling algorithm).
966 1		<ul> <li>Zoom: Adjust the Zoom length of the lens.</li> <li>Note: Only work when your camera is equipped with motorized lens.</li> <li>Focus-/Focus+: Adjust focus of the lens.</li> <li>Note: Only work when your camera is equipped with motorized lens.</li> </ul>

No.	Parameter	Description
		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.
ţţ		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>
	* <u> </u>	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".
		<ul> <li>Sharpness: Adjust the Sharpness of image. Higher Sharpness sharps the pixel boundary and makes the image looks "more clear".</li> <li>2D DNR/3D DNR: Adjust the noise reduction level.</li> </ul>
	Default	<b>Default</b> : Restore brightness, contrast and saturation to default settings.

## 6.2 Face Detection Mode

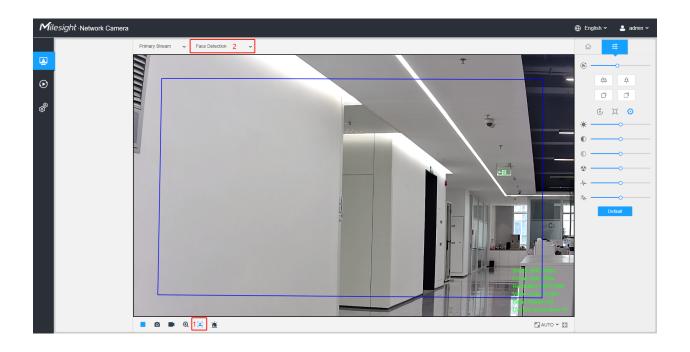
Milesight face detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring efficiency and benefits the large population related industries such as public security, access control and business management.



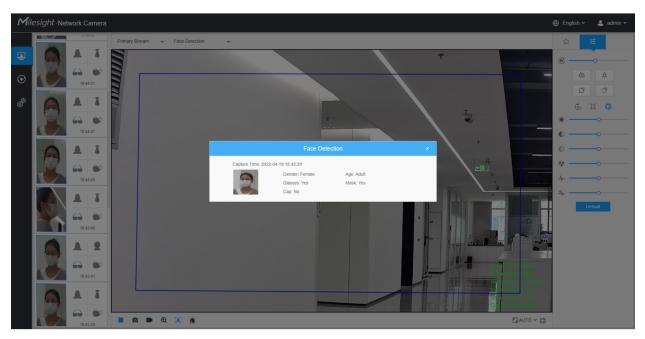
**Note:** Make sure your camera model is MS-Cxxxx-xPC.

**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.

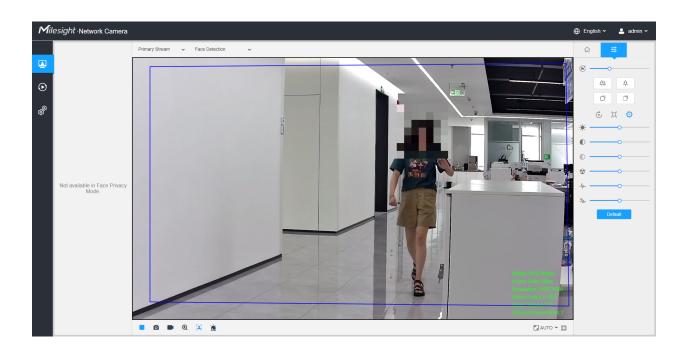
**Note:** Before enabling the face detection mode, ensure that the face detection function has been enabled and configured. For more details about how to configure the face detection, please refer to 8.4.4 Face Detection (*page 151*).



**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.

## 6.3 PTZ Mode

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



### 6.3.1 Operations on Live View Page

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

Т	able	3.	Description	of	the	butto	ns

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 .
	Zoom-/Zoom+	Click to zoom in and zoom out.
	Focus-/Focus+	Click to focus near or far of the lens.
	<u>ن</u> ا	Lens Initialization, Auxiliary Focus and Auto Iris.  Note: The Auto Iris is turned on by default.
<u>S</u>		Lighting For 30s: Click to open/ close the White LED for lighting 30s. Note: Only for PTZ Bullet.
	÷ 30 (1)	3D Positioning: Click to enable/ disable 3D positioning.
		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.
	Ģ	Enable to set 300 preset positions for each regional view channel.

No.	Parameter	Description
	۲	Enable to set 8 patrol paths for each regional view channel.
	æ	Display the pattern.

### 6.3.2 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.

### 6.3.3 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	$\times$	Ø
002	Preset	t 2			B
003	Preset	t 3			B
004	Preset	t 4			B
005	Preset	t 5			a
006	Preset	t 6			a
007	Preset	t 7			B
800	Preset	t 8			a
009	Preset	t 9			B
010	Preset	t 10			B
011	Preset	11			a
012	Preset	t 12			B
013	Preset	t 13			B
014	Preset	t 14			a
015	Preset	t 15			B
016	Preset	t 16			B
017	Preset	17			E



Path	1			+	×	t	ŧ
F	Preset	t	S	beed	ł	Tim	e
01	1	~		30	~	1	5
02	2	~		30	~	1	5
03	3	~		30	~	1	5
	Save				Car	ncel	



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

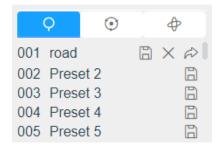
**Step3:** Click <sup>(C)</sup> to save the setting of the current preset;

**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  $\bowtie$  to call the preset.



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

Special Preset	Function	Special Preset	Function
33	Auto Flip(Speed Dome only)	42	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

### **Table 4. Special Presets**

	<b>)</b>	¢
032	Preset 32	B
033	Auto Flip	
034	Goto Zero	Ê
035	Self Check	Ŕ
036	Patrol	Ŕ
037	Path1	Ŕ
038	Path2	Ŕ
039	Path3	Ŕ
040	Path4	Ŕ
041	Path5	Ŕ
042	Path6	Ŕ
043	Path7	Ŕ
044	Path8	Ŕ
045	Pattern1	Ŕ
046	Pattern2	67

#### 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  $\odot$  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 + × + +			
	Preset	Speed	Time
01	1 ~	30 🗸	15
02	2 ~	30 🗸	15
03	3 ~	30 🗸	15
Save		Cancel	

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

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

 Table 5. Description of Patrol Settings

**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 to call the patrol, as shown below.

	Q		۲		₽	2
001	Path	1			Ø	×
002	Path	2				Ø
003	Path	3				Ô
004	Path	4				Ø
005	Path	5				Ø
006	Path	6				Ô
007	Path	7				Ô
800	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 to enter the pattern settings interface;
Step2: Select a pattern number from the pattern list as shown in the figure below;

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

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

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

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

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

#### Call a pattern:

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

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

#### **Note:**

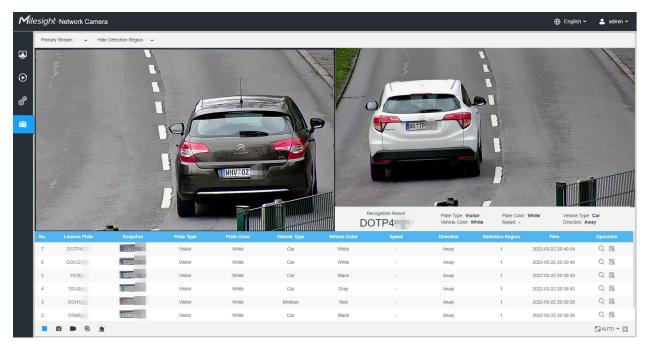
The three button behind the Pattern list means: Play, Record and Delete.

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.

# 6.4 LPR Mode

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

After logging in the LPR network camera web GUI successfully, users can click to access the LPR Mode page, which is shown as follows.



Left Panel: Live View interface of LPR cameras.

**Right Panel:** Snapshots of the real-time vehicle and display the information of the vehicle according to the snapshot.

Bottom Panel: Display the information of the vehicles recently detected.

**Note:** The Speed can only be detected by Radar LPR network cameras:

Secondary	Stream 🖌 LPR	Ŷ										<b>3</b>	
Count: 4	22 @:71km/h 36m	Away -1.5*	\ \ 										
				Billinie 424 Jph Besolution 640 Vales Cochs Pi	480						;	*	
				Filine 421 day Control Control Reselector 640 Vigo Control Smart Stream C Current Connec	12 1400 2403 21 Minutes 2	Recognition Re		Plate Typ Vehicle C	e: Visitor Plate Color; Blu olor: White Speed: 61Km/h			*	-O fault
No.	License Plate	Snapshot	Plate Type	Pinnes 42, 200 Resolution for Video Cores, 11 Smart Science Curring Corman Plate Color	460 243 200 243 200 243 200 243 200 243 200 243 200 243 200 243 200 243 200 243 200 243 200 243 200 243 200 243 200 243 200 243 200 244 200 200	GQC1	Speed D	Vehicle C Direction	olor: White Speed: 61Km/h Detection Region	Direction: Away	Operation	* * De	
8	GQC12	G OC I	Visitor	Blue	Car	GQC1 Vehicle Color White	Speed D 61Km/h	Vehicle C	olor: White Speed: 61Km/h	Direction: Away Time 2022-04-02 02:03:38	Operation Q 區	الب	-0 -0 fault
8 7	GQC12 ID992Y	G QC   0.992	Visitor Visitor	Blue Blue	Car Car	Vehicle Color White White	Speed D 61Km/h	Vehicle C Direction Away	olor: White Speed: 61Km/h Detection Region 1 1	Direction: Away Time 2022-04-02 02:03:38 2022-04-02 02:03:08	Operation Q हि Q हि	-µ- -∦e De	
8 7 6	GQC12 ID992Y JF7R95	6 001 0 992 F 7R9	Visitor Visitor Visitor	Blue Blue Blue	Car Car Car	Vehicle Color White White White	Speed         D           61Km/h         -           51Km/h         -	Vehicle C Direction Away - Away	olor: White Speed: 61Km/h Detection Region	Direction: Away Time 2022-04-02 02:03:08 2022-04-02 02:03:08 2022-04-02 02:03:03	Operation ଦ୍ରାଞ୍ଚ ଦ୍ରାଞ୍ଚ ଦ୍ରାଞ୍ଚ	_4 _4 De	-O Fault
8 7 6 5	GQC12 ]D992Y JF7R95 ]DF0701	G OCT 0 992 1 F.7R9 0 F070	Visitor Visitor Visitor Visitor	Blue Blue Blue White	Car Car Car Car	GQC1 Vehicle Color White White Gray	Speed         D           61Km/h         -           51Km/h         -           84Km/h         -	Vehicle C Direction Away - Away Away	clor: White Speed: 61Km/h Detection Region 1 2 1	Direction: Away Time 2022-04-02 02:03:38 2022-04-02 02:03:08 2022-04-02 02:03:03 2022-04-02 02:03:03 2022-04-02 02:03:01	operation ० छ ० छ ० छ ० छ	*	
8 7 6 5 4	GQC12 ID992Y JF7R95 DF070 E355V	GOCT 0:992 F7789 0:F070 5355	Visitor Visitor Visitor Visitor Visitor	Blue Blue Blue White Blue	Car Car Car Car Car Car	Construction of the second sec	Speed         D           61Km/h         -           51Km/h         -           84Km/h         -	Vehicle C Direction Away - Away Away Away Away	olor: White Speed: 61Km/h Detection Region 1 1	Direction: Away Time 2022-04-02 02:03:38 2022-04-02 02:03:08 2022-04-02 02:03:03 2022-04-02 02:03:01 2022-04-02 02:03:01 2022-04-02 02:02:51	operation Q छ Q छ Q छ Q छ Q छ	* * De	
8 7 6 5	GQC12 ]D992Y JF7R95 ]DF0701	G OCT 0 992 1 F.7R9 0 F070	Visitor Visitor Visitor Visitor	Blue Blue Blue White	Car Car Car Car	GQC1 Vehicle Color White White Gray	Speed         D           61Km/h         -           51Km/h         -           84Km/h         -	Vehicle C Direction Away - Away Away	clor: White Speed: 61Km/h Detection Region 1 2 1	Direction: Away Time 2022-04-02 02:03:38 2022-04-02 02:03:08 2022-04-02 02:03:03 2022-04-02 02:03:03 2022-04-02 02:03:01	operation ० छ ० छ ० छ ० छ	ун Ун De	

 Table 6. Description of the buttons

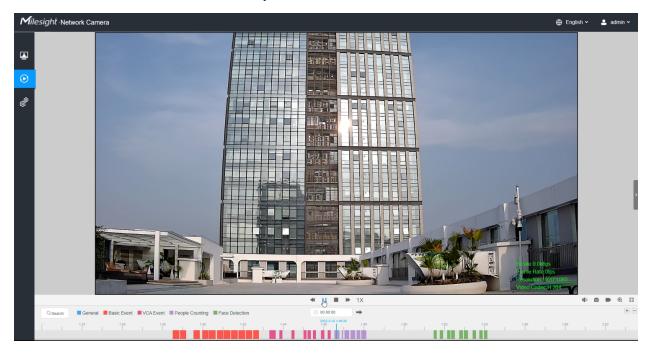
	Parameter	Description
1	Live Video	Click to access the live view page.
2	Playback	Click to access the playback page.
3	ැ Settings	Click to access the configuration page.
4	LPR Mode	Click to access the LPR Mode page.
5	⊕ English ∽	Click to select system language.
6	💄 admin 🗸	Display the user name and click to logout.

	Parameter	Description
7	Primary Stream 🗸	Choose the Stream ( <b>Primary/Secondary/Tertiary</b> ) to show on the current video window.
8	Hide Detection Region	<complex-block></complex-block>
9	Stop/Play	Stop/Play live view.
10	f 🔀 Alarm	When the Black List license plates passing by, the icon appears.
11	<b>E</b> Alarm	When the White List license plates passing by, the icon appears.
12	<b>E</b> Alarm	When the Visitor license plates passing by, the icon appears.
13	<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.
14	Start/Stop Recording	Click to <b>Start Recording</b> video and save to the configured path. Click again to stop recording. The default path is C:VMS\ +-1\MS_Record. Click again to <b>Stop Recording</b> .
15	Oigital Zoom	When enabled, you can zoom in a specific area of video image with your mouse wheel.

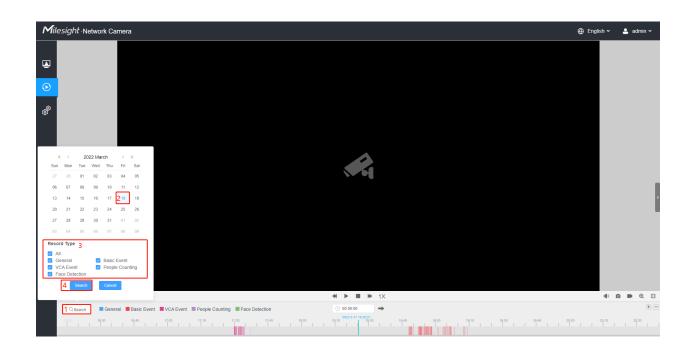
	Parameter	Description
16	Manual Output	Manually trigger Camera Alarm Output.
17	Kauto ✓ Window Size	Click to display images at a window size.
18	Full Screen	Click to display images at full-screen.
Operation	Q	Click to view selected license plate with a large picture.
Operation	Ē	Click to add the selected license plate to White/Black List.

# Chapter 7. Playback

Click O 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:

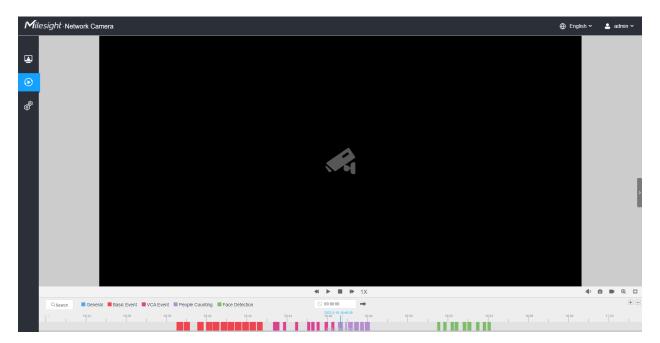


Step1: Click the "Search" botton, choose the data and record type when the window pops up.



**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
		Choose date to search recorded videos.
	«         <         2022 March         >         >           Sun         Mon         Tue         Wed         Tru         Fri         Sat           27         28         01         02         03         04         05           06         07         08         09         10         11         12           13         14         15         16         17         18         19	Search the recorded videos by record type ( <b>All/General/</b> <b>Basic Event/VCA Event/People Counting/Face Detection</b> ). The timeline will show different colors according to selected record type as below:
Q Search	20         21         22         23         24         25         26           27         28         29         30         31         01         02	General Basic Event VCA Event People Counting Face Detection
	03 04 05 06 07 08 09 Record Type  All General  General  People Counting Face Detection  Search Cancel	Note: Face Detection only appears when your camera is MS-Cxxxx-xPC. For LPR camera, the record type include All/General/Basic Event/LPR. The timeline will show different colors according to selected record type as below:

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	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>ال</b> ای 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	<b>Q</b> 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**

<i>sight</i> ·Network Camera					🕀 English 🗸	
🖆 Media 🗸	Primary Stream Seco	ondary Stream Tertia	ry Stream			
Video						
Image	Record Stream Type	General	Event			
Audio	Enable					
Network >	Video Codec	H.264 ~	H.264 ¥			
E Storage	Frame Size	1920*1080 ~	1920*1080 🗸			
S Event >	Maximum Frame Rate	25 ~	25 ~	fps		
System >	Bit Rate	4096 ~		kbps		
	Smart Stream	off ~				
	Bit Rate Control	CBR ~				
	Profile	Main ~				
	I-frame Interval	50		frame(1-120)		
	1	Save				

**Secondary Stream Settings** 

Mil	esight Network Cam	era					🕀 English 🗸	💄 admin 🗸
	🖆 Media	~	Primary Stream	Secondary Stream	Tertiary	Stream		
	Video Image		Enable					
$\odot$	Audio		Video Codec	H.264	~			
ଜ	Network	>	Frame Size	640*480	~			
ø	E Storage		Maximum Frame Rat	te 25	~	tps		
	3 Event	>	Bit Rate	512	~	kbps		
	l System	>	Smart Stream	Off	~			
			Bit Rate Control	CBR	~			
			Profile	Main	~			
			I-frame Interval	50		frame(1-120)		
				Save				

# **Tertiary Stream Settings**

Mile	esight ·Network C	amera				🕀 English 🗸	💄 admin 🗸
	🖧 Media	~	Primary Stream Sec	condary Stream Tertiary	Stream		
	Video Image Audio						
۲	Network	>	Video Codec Frame Size	H.264 ~			
ø	E Storage		Maximum Frame Rate		fps		
	5 Event	>	Bit Rate	1024 ~	kõps		
	System	>	Smart Stream	~ no			
			Bit Rate Control Profile	CBR ~			
			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>Image: Stream Str</b>
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	VBR: Variable Bitrate. VBR files vary the amount of output data per time segment.
Image Quality	Low/Medium/High are available, this item is optional only if you select VBR.

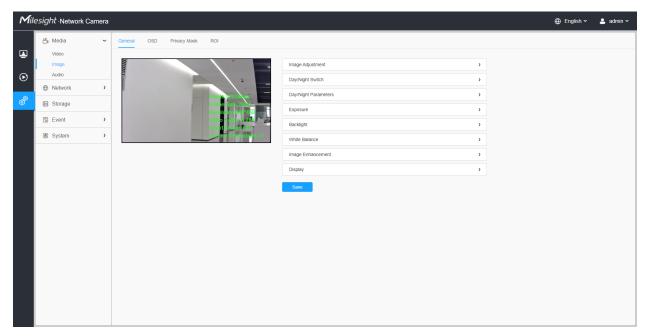
Parameters	Function Introduction
Profile	The option is for H.264, Main/High/Base can be selected as needed.
I-frame Interval	Set the I-frame interval to 1~120, 50 for the default. This item is optional only if you select the H.265/H.264. The number must be a multiple of the number of frames.

# 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]

▲ Media     ✓     General     OSD     Privi       Video     Image     Audio     ✓     Image     Image       ④ Network     >     >     Image     Image       ⑤ Esternt     >     >     Image     Image       ⑥ Event     >     >     Image     Image	Bright Cont	ge Adjustment ghress 50 ntrast 50 turation 50	<b>v</b>	
	Smart Store in Oil	arpness 50O		
	30 D Day/N Expos Backi White	klight te Balance ge Enhancement		

# **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]

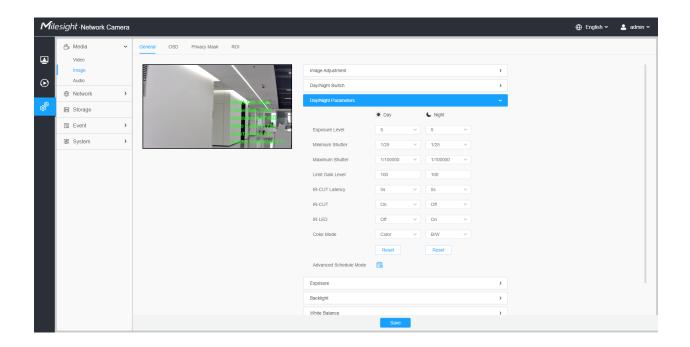
Mill	esight ·Network Carr	iera		🕀 English 🗸	💄 admin 🗸
<ul> <li>Mill</li> <li>■</li> <li>●</li> <li>3</li> </ul>	esight -Network Carr hedia Video Image Audio Network Storage Storage Storage Storage Storage	vera	General       OSD       Privacy Mask       ROI         Image Adjustment       >         OrayNight Switch       >         DayNight Switch       >         Day to Night Value       26       Reset         Night to Day Value       22       Reset         IR Light Sensor Value       100       >         DayNight Switch Refocus       On       >         IR Light Sensor Value       100       >         Istant IR Mode       Smart IR Mode       >	⊕ English ∨	A admin
			Mode O Aulo O Customize IR Strength Value Near0 Far 0 O		
			Day/Night Parameters		
			Backlight		
			White Balance		
			Image Enhancement		
			Save		

# 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.

Parameters	Function Introduction
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
Day/right owner	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: Sensor Value: 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: Note: Start/End Time of Night are optional only if you select Customize 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.
Smart IR Mode	Near View IR Level: Adjust the light strength of Low-Beams LED light level from 0 to 100.         Far View IR Level: Adjust the light strength of High-Beams LED light level from 0 to 100.         Image: Note:         Image: Note:
	<ul> <li>Near/Far View IR Level are only available in MS-C9674-PA.</li> <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> IR Strength Value: The current value of Low-Beams LED and High-Beams LED
	light value.

# [Day/Night Parameters]



#### 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.
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.

Parameters	Function Introduction
	Here you can customize your special demands for different time, then the Day mode and Night mode will switch automatically according to your settings.
	Edit ×
	Schedule Settings Template Settings
Advanced Schedule Mode	P       2       4       6       9       10       12       14       15       10       20       22       24         Select All       Clear All        ✓       Template2       —       Template3         Template3       Template3       Template3       —       Template3         Save       Cancet       ✓       Template5

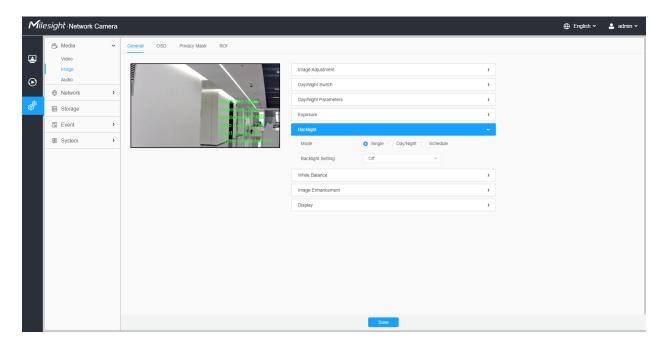
# [Exposure]

Mill	esight Network Can	nera							🕀 English 🗸	💄 admin 🗸
<ul> <li>Mill</li> <li>■</li> <li>●</li> </ul>	Sight -Network Can  Media Video Image Audio  Network Storage Storage Storage System	nera	OSD	Privacy Mask	ROI Bring to the second	Image Adjustment Day/Nght Switch Day/Nght Parameters Exposure Mode Backlight White Balance Image Enhancement Display	Auto Manual Schedule	) ) ) ) ) ) ) ) ) ) ) ) )	English ×	🔮 admin 🗸
						Save				

# Table 13. Description of the buttons

Parameters	Function Introduction	
	Auto Mode, Manual Mode and Schedule Mode are available. <b>Auto Mode:</b> The camera will adjust the brightness according environment automatically. <b>Manual Mode:</b> The camera will adjust the brightness according you set, you can set the exposure time from 1~1/100000s, the is, the brighter the image is. <b>Schedule Mode:</b> You can customize the schedule to enable/of Mode and Manual Mode.	ng to the value e higher the value
Exposure Mode	Edit	← Auto Mode ✓ Manual Mode

# [Backlight]



#### 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 enabled.</li> <li>Day/Night Mode: Support BLC/WDR/HLC on Day Enhancement Mode/Nig Enhancement Mode separately.</li> <li>Schedule Mode: Set schedule mode for BLC/WDR/HLC. You can custom the schedule to enable/disable BLC/WDR/HLC mode.</li> </ul>	ght
Backlight Mode	Edit       ×         Sun.       0       2       4       6       8       10       12       14       15       18       20       22       24         Sun.       Mon.       -       -       BLC       -       WDR       -       HLC         Wed.       -       -       -       -       -       -       -       -       -       -       WDR       ✓       +       +       -       -       -       -       -       WDR       ✓       +       +       LC       -       WDR       ✓       +       HLC       -       WDR       ✓       +       HLC       -       State       -       -       State       -       -       State       - <th></th>	

#### - Note:

• For more details about Milesight WDR on & off Video, you can click to the YouTube:

https://www.youtube.com/watch?v=McoOL0Pyk0w

• For more details about **Milesight Ultra Low-light Video Demo - HLC**, you can click to the YouTube:

https://www.youtube.com/watch?v=ly8uKWbii40

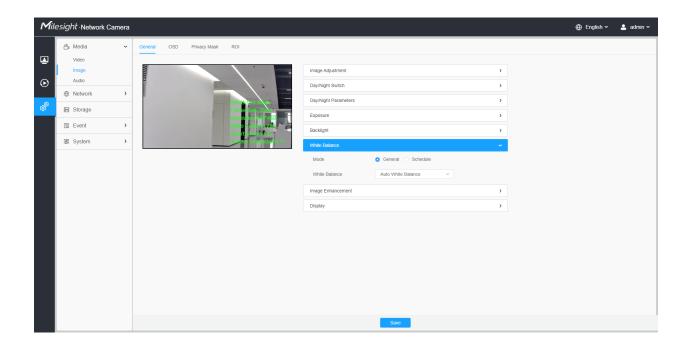
• For more details about Milesight Super WDR Pro, you can click to the YouTube:

https://www.youtube.com/watch?v=edsPZXBJRnI

• For more details about Milesight Super WDR Performance, you can click to the YouTube:

https://www.youtube.com/watch?v=BKEZ6BW-YZE

[White Balance]



**Table 15. Description of the buttons** 

Parameters	Function Introduction				
	To restore white objects, removed color distortion c environment.	aused by the light of the			
	Auto White Balance: This option will automatically function.	enable the White Balance			
	Manual White Balance: Set Red Gain Level and B	Blue Gain Level manually.			
	<b>Incandescent Lamp:</b> Select this option when light incandescent lamp.	is similar with			
	Warm Light Lamp: Select this option when light is lamp.	similar with warm light			
	Natural Light: Select this option when there is no c	other light but natural light.			
	Fluorescent Lamp: Select this option when light is Lamp.	similar with Fluorescent			
White Balance	Schedule mode: Select this option that you can cu enable/ disable above modes.	stomize the schedule to			
	Edit	×			
	P       2       4       6       9       10       12       14       16       10       20       22       24         Sun.       Mon.	<ul> <li>Auto White Balance</li> <li>Manual White Balance</li> <li>Incandescent Lamp</li> <li>Warm Light Lamp</li> <li>Natural Light</li> <li>✓ Fluorescent Lamp</li> </ul>			

# [Image Enhancement]

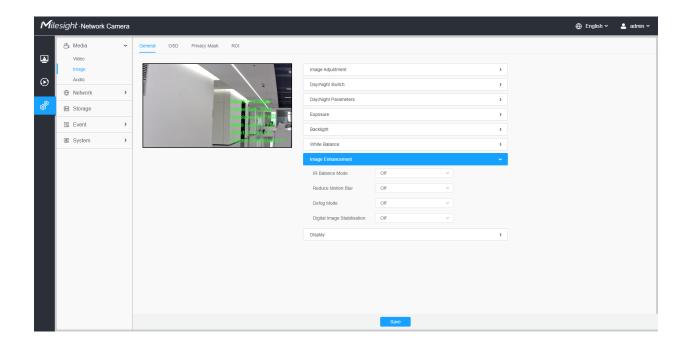


Table 16	Descri	ption of	the	buttons
----------	--------	----------	-----	---------

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. Note: For more details about Milesight Deblur, you can click to the YouTube: https://www.youtube.com/watch?v=-vynrami51s
Defog Mode	<ul> <li>Better image effect in foggy weather.</li> <li>Note:</li> <li>Defog Mode is not supported for the MS-Cxxxx-xPA.</li> <li>For more details about Milesight Defog, you can click to the YouTube: https://www.youtube.com/watch?v=a9od7Trao4U</li> </ul>
Digital Image Stabilisation	Decrease the blur and shakiness of the image.

# [Display]

Mile	esight ·Network Carr	nera										🕀 Eng	ish 🗸	💄 admin 🗸	
<i>M</i> ind	esight -Network Carr ☆ Media Video Image Audio ↔ Network ☆ Storage © Event @ System	<pre>hera</pre>	General OSD Privacy Mask ROI	Image Adjustment Day/Night Switch Day/Night Switch Backlight White Balance Image Enhancement Display Power Line Frequency Outdoor/Indoor Mode	Day/Night Switch Day/Night Parameters Exposure Backlight While Balance Image Enhancement Exposur Power Line Frequency E0Hz					⊕ Eng	English ~	▲ admin ~			
						Image Rotation Keep Correct Aspect Ratio	Off	× ×							
							Save								

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. Anticlockwise90°: Rotate the image by 90° anticlockwise.
Image Rotation	<ul> <li>There are four options available, you can select one to meet your need.</li> <li>Off: Keep the image in normal direction.</li> <li>Rotating 180°: Upside down the image.</li> <li>Flip Horizontal: Flip the image horizontally.</li> <li>Flip vertical: Flip the image vertically.</li> </ul>
Keep Correct Aspect Ratio	With this option enabled, the camera will prevent the image from distortion when resolution ratio is changed.

# **Table 17. Description of the buttons**

Parameters	Function Introduction
Zoom Limit	Set the Zoom Limit.  Note: Only for the PTZ Network Camera with optical zoom of 20X or above.
White LED Level	Set the White LED Level to 1~100.  Note: Only for PTZ Bullet.
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

Mile	e <i>sight</i> ·Network (	Camera						🕀 Englis	sh 👻 💄 admin 🛩
	🗂 Media	~	General OSD	Privacy Mask	ROI				
	Video Image Audio		Network Camera		19/04/2022 18:58:	11 Video Stream	Primary Stream		
$\odot$	Network	>	1		*	Regular			
ø		,	E)		Bitrate 4-100 A appa	Font Size	Medium ~		
<b>_</b>	E Storage			1	Resolutor: 1920* 1080.	Font Color	•		
	Event	>			Video codoci Landa	Background Color			
	System	>		_	Current Connections 20		•		
						Video Title			
						Show Video Title			
							Network Camera		
						Text Position	Top-Left ~		
						Zoom Status	5 s ~		
						Timestamp			
						Show Timestamp			
						Date Position	Top-Right ~		
						Date Format	DD/MM/YYYY ~		
						E Copy to Other	Streams 2		
						Save			

Parameters	Function Introduction
Video Stream	Enable to set OSD for primary stream and secondary stream.
Font Size	Smallest/Small/Medium/Large/Largest/Auto are available for title and date.
Font Color	Enable to set different color for title and date.

Parameters	Function Introduction
Background Color	Enable to set different colors for display information background on screen. You can set different colors for font and background of image , then the image OSD will show as below:
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.
Show Timestamp	Check the checkbox to display date on the image.
Date Position	Date display position on the image.
Date Format	The format of date.
Copy to Other Streams	Copy the settings to other streams.

# 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]

Mill	e <i>sight</i> ∙Network C	Camera											🕀 English 🗸	💄 admin 🗸
	🖆 Media	v	General	OSD	Privacy Mask	ROI								
<b>E</b>	Video Image				No. HONK		Enable 🗸							
$\odot$	Audio		1954 A	Li li	#		ID	Name	Туре	Enable	Operation			
	Network	>	10			Bitrate: 328.1kbp	1	Privacy Mask1	White		∠ Ū			
ø	E Storage		and the			Frame Rate:25fps Resolution:640*480								
	S Event	>				Video Codec:H.264 Smart Stream:Off								
	System	>				Current Connections:1								
			Туре 💿	Mask			Delete All Save							
			Add	Clear										

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

#### **Note:**

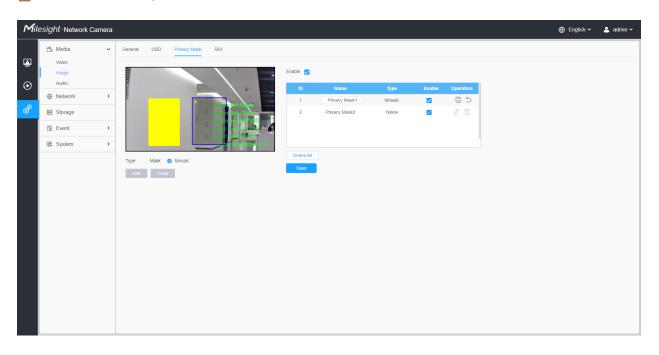
- For the MS-Cxxxx-xPC model, up to 24 mask areas and 4 mosaic areas are supported.
- For the MS-Cxxxx-xPA model, up to 24 mask areas are supported.
- For the MS-Cxxxx-xPD model, up to 4 mask areas are supported.

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 Violet.
Add	Drew a privacy area on the live video as needed.
Clear	Clear the area you drew on the live video.
Delete All	Clear all areas you drew before.

## [Mosaic type of Privacy Mask]

You can select the color type and mosaic type to use for the cover certain areas on the live video. The mosaic type can maintain the continuity of the picture and improve the visual effect. Up to 28 mask areas are supported, which includes 24 mask areas and 4 mosaic areas.



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

Table 20.	Descri	ption of	the	buttons
-----------	--------	----------	-----	---------

Parameters		Function Introduction					
Enable	Check the check box to	o enable the Privacy Mask function.					
Туре	Select the type to use	Select the type to use for the privacy areas, there are two types available: Mask and Mosaic.					
Add	Drew an privacy area o	Drew an privacy area on the live video as needed.					
Clear	Clear the area you dre	w on the live video.					
	□, ☑	Enable/disable the selected ROI areas.					
Operation		Change the color of Mask area, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and Violet					
	Ē	Delete the privacy mask area					

## 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://milesight.freshdesk.com/a/</u><u>solutions/articles/69000643441</u>.

Mill	esight Network Ca	mera								🕀 English 🗸	💄 admin 🗸
<i>M</i> iii ∎ €	esight -Network Car ☆ Media video Image Audo ⊕ Network Storage Event System	mera	General OSD	Privacy Mask	ROI 19/04/2022 19:04:07 19/04/2022 19:04:07 19/04/2022 19:04:07 19/04/2022 19:04:07 19/04/2022 19:04:07 19/04/2022 19:04:07	Enable Video Stream Primar ID 1 Delete All Save	y Stream Name ROH	✓ Enable	Delate	English ~	≗ admin ∽

#### Table 21. Description of the buttons

Parameters		Function Introduction				
Enable	Check the checkbo	Check the checkbox to enable the ROI function.				
Video Stream	Choose the Video S	Stream.				
ROI	🗆 , 🔽	Enable/disable the selected ROI areas.				

Parameters		Function Introduction
		Delete the selected ROI areas.
Delete All	Clear all areas you	drew before.

#### **=** 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.

Mile	esight ·Network Ca	mera		🕀 English 🗸	💄 admin 🗸
	🖆 Media	~	Audio File Management		
_	Video Image Audio		Enable		
€	Network	>	Audio Mode Both Audio Input & Output		
Ø	E Storage		First days at 10 Pendee		
	S Event	>	Video Thu C data Encoding G.711-ULaw		
	System	>	Sample Rate 8KHz v		
			Input Gain 50		
			Audio Output		
			Auto Gain Control		
			Output Volume 50O		
			Save		

#### Table 22. Description of the buttons

<b>Function Introduction</b>
Check on the checkbox to enable audio feature.
Audio Input/Audio Output/Both Audio Input & Output are optional.
<b>Denoise:</b> Set it as On/Off. When you set the function on, the noise detected can be filtered.
Encoding: G.711-ULaw, G.711-ALaw, AAC LC, G.722 and G.726 are available
<b>Audio Bit Rate:</b> The function is available only for AAC LC, and supports up to 256kbps.
Sample Rate: 8KHz, 16KHz, 32KHz, 44.1KHz, and 48KHz are available.
Input Gain: Input audio gain level, 0-100.
<b>Alarm Level:</b> Alarm will be triggered if voice alarm is enabled and input gained volume is higher than the alarm level, 1-100.
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	esight ·Network Camer	a	🕀 English 🗸	💄 admin 🗸
<b>⊒</b> ⊙	Media Video Image Audio	Audio File Storage Type Flash		
	Network	Audio File ①     SD		
ø	🗄 Storage	ID Audio File Name Delete		
	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.

**Note:** 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

n 👻 💄 admin 🛩

 Table 23. Description of the buttons

Parameters	Function Introduction
IPv4	<ul> <li>Type: Static Type and DHCP Type are optional for user to get IPv4 address automatically or use fixed IP address.</li> <li>IPv4 Address: An address that used to identify a network camera on the network.</li> <li>Note: The Test button is used to test if the IP is conflicting.</li> <li>IPv4 Subnet Mask: It is used to identify the subnet where the network camera is located.</li> <li>IPv4 Default Gateway: The default router address.</li> <li>Preferred DNS Server: The DNS Server translates the domain name to IP address.</li> </ul>
IPv6	<ul> <li>IPv6 Mode: Choose different modes for IPv6: Manual/Route Advertisement/ DHCPv6</li> <li>IPv6 Address: IPv6 Address used to identify a network camera on the network</li> <li>IPv6 Prefix: Define the prefix length of IPv6 address</li> <li>IPv6 Default Gateway: The default router IPv6 address</li> </ul>
ΜΤυ	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

Mile	e <i>sight</i> ∙Network Can	nera			🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	TCP/IP HTTP	RTSP UPnP DDNS Email FTP		
<b>⊡</b> ⊙	Network     Basic     Advanced	`	Enable			
¢ <sup>®</sup>	E Storage		Port	80		
	Event	>	HTTPS			
	System	>	Enable Port	443		
			Installed Certificate Attributes	C=US, HIP=IPC Awarded to: C=US, HIP=IPC Issue: C=US, HIP=IPC Period Validity. Aug 13 10:57:12 2023 Create a Private Certificate v Create		

## Table 24. Description of the buttons

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

## Table 25. HTTP URL are as below:

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

Mile	esight Network Camera	a de la constante de	🕀 English 🗸	💄 admin 🗸
	🖧 Media 🔹 👌	TCP/IP HTTP RTSP UP/P DDNS Email FTP		
<b>⊥</b> ⊙	Network     Basic     Advanced	RTSP Part         554         ①           Playback Port         555         ①		
o <sup>®</sup>	Storage	RTP Packet Better Compatibility		
	S Event >	Multicast Group Address 239 . 6 . 6 . 6		
	System >	QeS DSCP(0-63) 0		

# Table 26. 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. <b>Note:</b> Port 0 means closing playback function.
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 27. RTSP URL are as below:

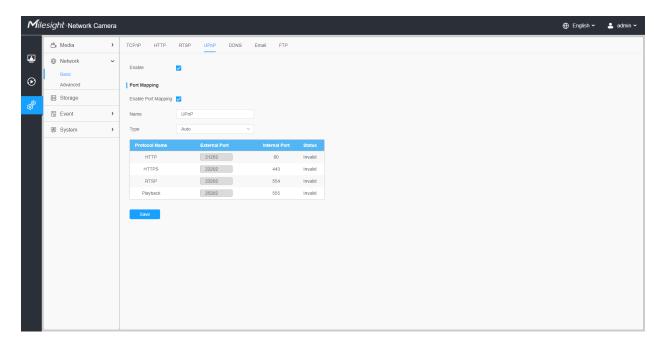
Stream	URL
Primary Stream	rtsp://IP:RTSP Port/main
Secondary Stream	rtsp://IP:RTSP Port/sub
Tertiary Stream	rtsp://IP:RTSP Port/third

#### **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.



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

Parameters	Function Introduction
Туре	Auto: Automatically obtain the corresponding HTTP and RTSP port, without any settings Manual: Need to manually set the appropriate HTTP port and RTSP Port. When choose Manual, you can customize the value of the port number by yourself
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://milesight.freshdesk.com/a/</u><u>solutions/articles/69000643406</u>.

Μ	ilesight Network Came	era		🕀 English 🗸	💄 admin 🗸
	🖧 Media	TCP/IP HTTP	RTSP UPnP DDNS Email FTP		
<ul><li>▲</li></ul>	Network     Basic     Advanced	- Enable Provider	☑ ① ddns.milesight.com ✓		
¢ <sup>®</sup>	🖹 Storage	External HTTP Port	80		
~	5 Event	External RTSP Port	554		
	I System	External Playback Po	t 555		
		Status	—		
		DDNS URL	http://ddns.milesight.com/2AB1E6		
			Save		

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 29. 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".
Host name	DDNS name enabled in the account.
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 Email

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

e <i>sight</i> ∙Network Cam	era			🕀 English 🗸	💄 admin 🗸
🖧 Media	>	TCP/IP HTTP RTSP UP	PnP DDNS Email FTP		
Network     Basic	~	Enable 🔽			
Advanced		User Name 101365	38401@qq.com		
E Storage		Sender Email Address 10136	38401@qq.com		
la Event	>	Password	©		
System	>	Email Server smtp.q	q.com		
		Email Port 25			
		Recipient Email Address1 alba@	milesight.com		
		Recipient Email Address2			
		Encryption • None	e O SSL O TLS		
		Snapshot Settings			
		Alarm Snapshot File Name YYYY-	MMA-DD v		
		Timing Snapshot File Name YYYY-	MMA-DD v		
		Saw	e Test		
	Media  Wetwork Basic Advanced  Storage Storage Exent	Network Basic Advanced      Storage      Event	Media             CCMIP         HTTP         RTSP         UF         RTSP         Inter         I	Childa >   TCHIP HTTP   RTSP UPHP   DDNS Email   Pask    Basic    Avanced 101559401@qq.com   Storage Sender Email Address   G Songer   System >   Email Perver Simple q.com   Recpert Email Address Imple q.com   Amm Snapshot File Name YYYY-MM-DD   YYYY-MM-DD Imple quarter	Check Network   Basic Image: Composition of the stress of the stres

# Table 30. 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.
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.

Parameters	Function Introduction
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 && - &

## 8.2.1.7 FTP

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

Mile	sight Network Ca	mera			
	📸 Media	>	TCP/IP HTTP RTSF	UPnP DDNS	Email
	Network	~	FTP Server Settings		
$\odot$	Basic Advanced		FTP Туре	FTP	~
d <sup>®</sup>	E Storage		Server Address	192.168.70.97	
©.	Event	>	Server Port	21	
	System	>	User Name	alba	
			Password FTP over SSL/TLS(FTPS)		٢
			FTP Storage Settings Storage Path	Root Directory	~
			Alarm Action File Name	Default(YYYY-MM-DD)	· ·
			Timing Snapshot File Name		~
			Pre Second	0 s	~
				Save Test	

 Table 31. Description of the buttons

Para	meters	Function Introduction					
	FTP Type	FTP and SFTP are optional.					
	Server Address	FTP/SFTP server address.					
FTP Server Settings	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.					
	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.					
FTP Storage Settings	Parent Directory	Choose IP Address/ Device Name/ Date as the folder name of Parent Directory, or customize the folder name.					
	Child Directory	Choose IP Address/ Device Name/ Date as the folder name of Child Directory, or customize the folder name.					

Para	meters	Function Introduction
	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 Settings	Video File Name	If you choose to customize the alarm action file name, YYYY-MM- DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.
	Image File Name	If you choose to customize the alarm action file name, YYYY-MM- DD/ MM-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.
s	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.

## 8.2.1.8 Cellular (Optional)

The 5G AIoT Pro Bullet Plus Network Camera provides a fresh experience of UHD image quality, low latency and fast transmission speed to some scenarios where network wiring is inconvenient.

You can check the cellular status and set the cellular settings here when using 5G camera, as shown below.

Mile	esight Network Came	əra		🌐 English 🗸	💄 admin 🗸
	🖧 Media	>	TCP/IP HTTP RTSP UPnP DDNS Cellular Email FTP		
•	<ul> <li>Network</li> <li>Basic</li> <li>Advanced</li> </ul>	~	Cellular Status		
ø	E Storage		Schedule Settings		
©	3 Event	>	Save		
	@ IoT	>			
	System	>			

**Note:** 

- If you use the 5G camera for the first time, it is necessary to connect the camera through the network port to access the web page of the camera for basic configuration.
- Before using the 5G network, please insert the SIM card into the SIM card slot at the bottom of the camera. It supports Nano SIM for SIM card slot.

## [Cellular Settings]

**Step1:** Fill in the information provided by your Internet Service Provider (ISP) to Cellular Settings interface, then click Save to access the network successfully.

sight Network Ca	amera										🕀 English 🗸	
📸 Media	>	TCP/IP HTTP	RTSP UPnP	DDNS Cellular	Email FTP							
Network     Basic     Advanced	~	Cellular Status				>						
Storage		Enable										
S Event	>	APN										
፼ loT	>	User Name	admin									
System	>	Password		۲								
		PIN Code										
		Access Number										
		Authentication	Auto	~								
		Network Type	Auto	~								
		Re-dial Interval	30	s (	0-3600s)							
		Billing Day	Day 1	~	Of The Month							
		Schedule Settings				>						
		Save										

# Table 32. Description of the buttons

Parameters	Function Introduction
Enable	Check this option to enable 5G network.
APN	Enter the Access Point Name for cellular dial-up connection provided by local ISP.
User name	Enter the user name for cellular dial-up connection provided by local ISP.
Password	Enter the password for cellular dial-up connection provided by local ISP.
PIN Code	Enter a 4-8 characters PIN code to unlock the SIM.
Access Number	Enter the dial-up center NO. For cellular dial-up connection provided by local ISP.
Authentication Type	Select the Authentication Type. There are five options including <b>Auto</b> , <b>PAP</b> , <b>CHAP</b> , <b>MS-CHAP</b> , <b>MS-CHAPv2</b> to match different Internet Service Providers. The default option is <b>Auto</b> , which can automatically match Internet Service Provider.
Network Type	Select the network type of cellular network. There are five options including Auto, 5G, 4G, 3G and 2G. Auto: connect to the network with the strongest signal automatically.
Re-dial Interval	Fill in the re-dial interval time. When the 5G network is offline, it will re-dial according to the interval you set. The Re-dial Interval must be between 0-3600s.
Billing Day	Select the date for clearing the data each month. Users can choose from 1st to 31st, and the system will clear the data on the date you set each month.

**Note:** For some Internet Service Provider, users only need to insert the SIM card directly to

access the 5G network without additional configuration.

#### [Cellular Status]

**Step2:** After connecting to the network successfully, you can check the cellular status information on Cellular Status interface, as shown below.

Miles	s <i>ight</i> ∙Network C	amera					
	🗂 Media	>	TCP/IP HTTP	RTSP UPnP	DDNS Cellular	Email FTP	
<b>₽</b> •	Network Basic	~	Cellular Status	CHN-CT	SIM Card Status	Valid	~
and the second sec	Advanced E Storage		Signal Strength	5 863305040412487	Status IMSI	5G Connected 460110833125380	
	5 Event	>	ICCID IP Address	89861119043114896944 172.22.217.9	Data Usage Monthly Subnet Mask	391MiB 255.255.255.252	
	፼ loT @ System	> >	Gateway	172.22.217.10	DNS Address	218.85.152.99	
			Cellular Settings Schedule Settings				> >
			Save				
l							

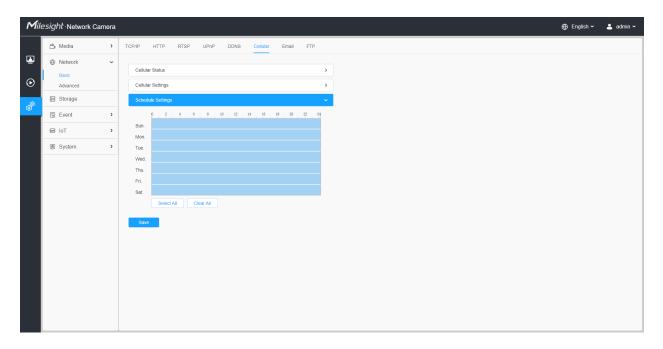
### Table 33. Description of the buttons

Parameters	Function Introduction				
ISP	Show the network provider which the SIM card registers on.  Note: It will display "-" when the SIM card is not inserted or not recognized.				
SIM Card Status	Display the connection status of SIM card. No SIM Card:The SIM card is not inserted. Invalid:The SIM card has been inserted but failed to connect to the network. Valid: The SIM card has been inserted and successfully connected to the network.				
Signal Strength	Display the current signal strength of the network.				
Status	Display the connection status of the network, including "connect" and "disconnect".				
IMEI	Show the IMEI of the module.				

Parameters	Function Introduction				
IMSI	Show IMSI of the SIM card.				
ICCID	Show ICCID of the SIM card.				
Data Usage Monthly	Display current monthly used data.				
IP Address	Display the IP Address, Subnet Mask, Gateway and DNS Address of the current network. If the SIM card is not inserted or not recognized, it will display 0.0.0.0.				
Subnet Mask	- network. If the Shiri card is not inserted of not recognized, it will display 0.0.0.				
Gateway	Display the IP Address, Subnet Mask, Gateway and DNS Address of the current				
DNS Address	<ul> <li>network. If the SIM card is not inserted or not recognized, it will display 0.0.0.0.</li> </ul>				
Refresh	Click this button to manually refresh the above status.				

#### [Schedule Settings]

Step 3:Set the schedule, the 5G network will take effect according to the schedule you set.

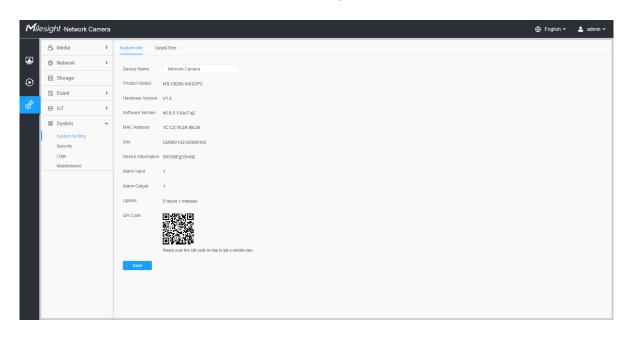


**Step 4:**After configuring the cellular settings, you also need to complete other basic configurations of the camera if needed, such as events, recordings, etc.

**Step 5:**After completing the basic settings of the camera, you can access the camera using 5G network without connecting the network cable.

**Note:** 

- You can connect and configure the 5G camera to Milesight CMS via P2P.
- You can use 5G network to connect the 5G camera to Milesight VMS Enterprise, Milesight CMS and M-sight Pro APP via P2P.
- For 5G camera, the P2P function will be activated by default as shown below.



• If you don't need to use the 5G network, you can connect to the camera through a network cable to use it.

# 8.2.2 Advanced

## 8.2.2.1 VLAN

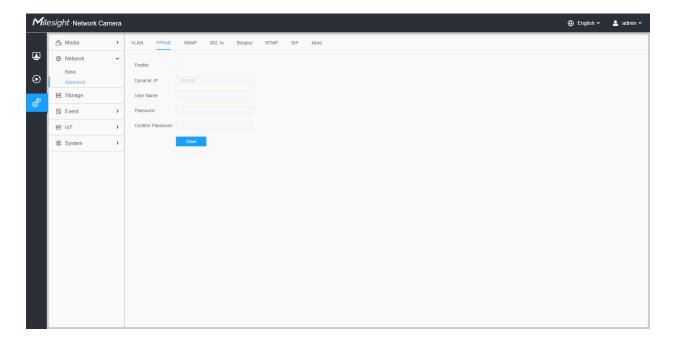
A virtual LAN (VLAN) is any broadcast domain that is partitioned and isolated in a computer network at the data link layer (OSI layer 2). LAN is an abbreviation of local area network. VLANs allow network administrators to group hosts together even if the hosts are not on the same network switch. This 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 Camera	1	🕀 English 🗸	💄 admin 🗸
	ස් Media >	VLAN PPPOE SNIMP 802.1x Bonjour RTMP SIP More		
<b>⊡</b> ⊙	Network     Basic     Advanced	Enable VLAN ID(1~4094) 1		
¢ <sup>®</sup>	E Storage	VLAN IP		
- U	5 Event >	VLAN Netmask		
	e loT >	VLAN Galeway		
	₿ System >	Save		

**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.



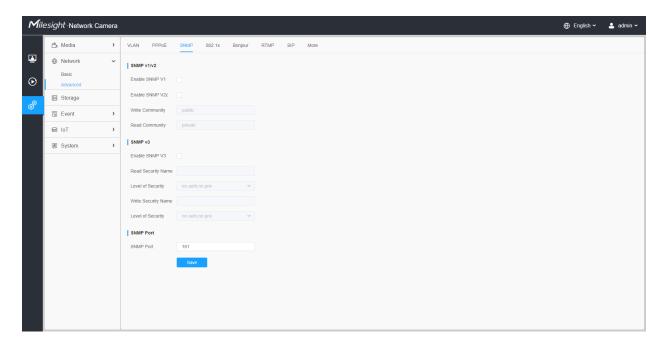
#### **Note:**

- 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.



#### **Table 34. 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

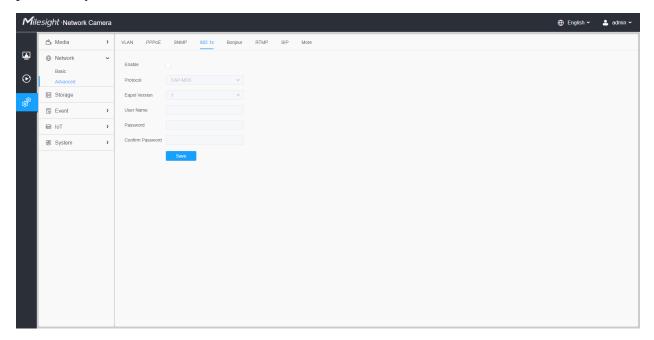
Parameters	Function Introduction			
	Enable SNMP v3: Provide encryption and the HTTPS protocol must be enabled.			
	Read Security Name: Input the name of Read Security Community.			
SNMP v3	<b>Level of Security:</b> There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv).			
	Write Security Name: Input the name of Write Security Community.			
	<b>Level of Security:</b> There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv).			
SNMP Port	The port of SNMP, the default is 161.			
Save	Save the configuration.			

#### **Note:**

- 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

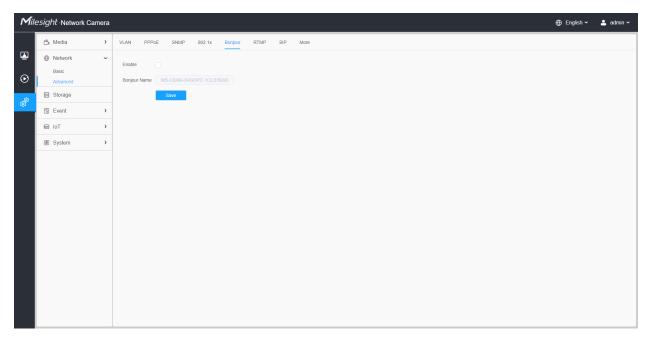
The IEEE 802.1X standard is supported by the network cameras, and when the feature is enabled, the camera data is secured and user authentication is needed when connecting the camera to the network protected by the IEEE 802.1X.



## 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 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.

Mile	esight ∙Network Camer	a	🕀 English 🗸	💄 admin 🗸
	🖧 Media 🔹	VLAN PPPOE SNMP 802.1x Bonjour RTMP SIP More		
•	Network     Basic     Advanced	Enable Stream Type Primary Stream		
ð <sup>0</sup>	E Storage	Server Address		
- <sup>(1)</sup>	S Event >	Save		
	e loT >			
	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 >.
- For more details about how to use RTMP for live broadcast, please refer to <u>https://</u> milesight.freshdesk.com/a/solutions/articles/69000643313.

#### 8.2.2.7 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://milesight.freshdesk.com/a/</u>solutions/articles/69000643391.

Mill	esight Network Came	əra									🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	VLAN PPPot	E SNMP	802.1x	Bonjour	RTMP	SIP	More			
•	<ul> <li>Network</li> <li>Basic</li> <li>Advanced</li> </ul>	~	SIP Settings Alarm Phone	List						) )		
¢ <sup>®</sup>	Storage		White List							)		
ŵ	S Event	>	Save									
	I 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]

<b>M</b> ile:	sight Network	Camera				
	🚔 Media	>	VLAN PPPoE SNMP	802.1x Bonjour	RTM	P SIP More
<b>⊡</b> ⊙	Network     Basic     Advanced	Ý	SIP Settings Enable	0		v
	E Storage		Register Mode	Enable	~	
ø	5 Event	>	User ID	500		
	፼ loT	>	User Name	sipclient		
	System	>	Password			
			Server Address			
			Server Port	5060		
			Connection Protocol		~	
			Video Stream Enable Audio in SIP Call	Primary Stream	~	
						s (0 means no limitation.)
				Unregistered		
			Alarm Phone List			>
			White List			>
			Save			

# Table 35. 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.				
Server Port	Server port.				
Connection Protocol	UDP/TCP.				
Video Stream	Choose the video stream.				

Parameters	Function Introduction				
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]

Mil	esight Network Came	Camera 🕀 Eng	ish 🛩 💄 admin 🛩
	🍰 Media	VLAN PPPOE SNMP 802.1x Bonjour RTMP SIP More	
<b>⊒</b> ⊙	<ul> <li>Network</li> <li>Basic</li> <li>Advanced</li> </ul>	SIP Settings	
ø	🖴 Storage	SIP Phone Phone Type Remark Name Duration Delete	
<b>\$</b>	5 Event	)         1837859006         Phone Number         00.00-23.59         III           6         Phone Number         00.00-23.59         III	
	🗟 System	Add Delete All	
		White List         Save	

# Table 36. Description of the buttons

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

# [White List]

<b>M</b> ile	esight ·Network Ca	mera							
	🚔 Media	>	VLAN P	PPoE SNMP	802.1x	Bonjour	RTMP	SIP	More
	Network	~	SIP Setti	ngs					
$\odot$	Basic Advanced		Alarm Ph						
ø	E Storage		White Lis	st					
	Event	>	Enable	White List Number Fi	ter 📄				
	System	>		SIP Phone		Phone Type		Delete	
						No Data			
			Add						
			Save						

# Table 37. 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 More

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

Mile	esight Network Came	а	🕀 English 🗸	💄 admin 🗸
	🛱 Media	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
© ©	Media  Network Basic Advanced  Storage  Levent IoT		⊕ English ∨	≥ admin ~

# Table 38. Description of the buttons

Parameters	<b>Function Introduction</b>						
	Enable: Enable/disable the Push Message function						
		Edit					
	Push Event Type: You can click to choose the types of Events' message which will be pushed to M-sight Pro App as shown below:						
	Edit ×						
Push Message Settings	Push Event Type						
	🗹 All						
	Motion Detection	Audio Alarm	✓ Tamper Detection				
	Region Entrance	Region Exiting	✓ Line Crossing				
	Loitering	Advanced Motion Detection	✓ Face 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	esight Network Cam	era		🕀 English 🗸	💄 admin 🛩
	🖆 Media	~	Storage Management Record Settings Snapshot Settings Explorer		
	Video Image		SD Card		
$\odot$	Audio		34.41%) 20.466/59.466 Format		
	Network	>	NAS		
ø	Storage		No Server Address Directory Mounting Type Total Pree User Name Status Operation		
	Event	>	No Data		
	System	>	Add		

# Table 39. Description of the buttons

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

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 V
Nas	Save Cancel
	Server Address: IP address of NAS server.
	Directory: 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.
	Note:
	<ul> <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> <u>articles/69000797902</u>.</li> </ul>

8.3.2 Record Settings

Milesight Network Camera		🕀 English 🗸	💄 admin 🗸
🖧 Media 🔸	Storage Management Record Settings Snapshot Settings Explorer		
Wetwork      Basic      Advanced	Storage Settings Enable Recycle Storage 💟		
B Storage	Pire Second 0 seconds v		
Event >	Schedule Settings		
E System →	0       2       4       6       0       10       12       14       16       10       22       9         Sun,       1 <t< th=""><th></th><th></th></t<>		

# Table 40. Description of the buttons

Parameters	Function Introduction				
Enable Recycle Storage	Enable/Disable Recycle Storage, if you enable this option, it will delete the files when the free disk space reaches a certain value.				
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 Introduction		
Schedule Settings	Copy To × Sun. Mon. Tue. Wed. Thu. Fri. Sat. Save	Copy the schedule area to another date.		
	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

Mile	esight Network Camera		🕀 English 🗸	💄 admin 🗸
	🖧 Media 🔉	Storage Management Record Settings Snapshot Settings Explorer		
•	Network >	Snapshot Settings		
⊙	E Storage	Enable Timing Snapshot 🧹		
	S Event	Interval 1 h v		
ø	System >	Save to storage (Please mount storage device.)		
		Upload Via FTP		
		Upload Via Email		
		HTTP Post		
		Schedule Settings		
		0 2 4 6 8 10 12 14 15 18 20 22 24 Sun		
		Mon.		
		Tue.		
		Thu		
		Fit		
		Sat. Select All Clear All		
		Save		
		1		

 Table 41. Description of the buttons

Parameters	Function Introduction			
Snapshot Settings	<ul> <li>Enable Timing Snapshot: Check the checkbox to enable the Timing Snapshot function</li> <li>Interval: Set the snapshots interval, input the number and choose the unit(millisecond, second minute, hour, day).</li> <li>Save Into Storage: Save the snapshots into SD card or NAS, and choose the file name to ad time suffix or overwrite the base file name.</li> <li>Save Into NAS: Save the snapshots into NAS, and choose the file name to add time suffix or overwrite the base file name.</li> <li>Upload Via FTP: Upload the snapshots via FTP.</li> <li>Upload Via Email: Upload the snapshots via Email.</li> <li>Note: If you choose to add time suffix, every snapshot picture will be saved, but if you choose to overwrite the base file name, only one latest picture will be saved. When you choose add overwrite the base file name to SD Card or NAS, it will create a file named "Snapshot" to place the snapshot.</li> </ul>			
Schedule Settings	HTTP Post: Upload the snapshots via HTTP Post. Support uploading the snapshots to specified HTTP URL.         Edit record schedule as needed. Intuitive scheduling by drawing the time bar directly.         Schedule Settings         0       2       4       6       8       10       12       14       16       18       20       22       24         Sun.       0       2       4       6       8       10       12       14       16       18       20       22       24         Sun.       0       2       4       6       8       10       12       14       16       18       20       22       24         Sun.       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon.       0			
Schedule Settings	Copy To       Image: Copy To         Sun.       Mon.         Tue.       Copy the schedule area to another date.         Wed.       Thu.         Fri.       Sat.         Save       Select All         Select All       Select all schedule.			

Parameters	Function Introduction		
	Clear All	Clear all schedule.	
Save	Save the configuration		

# 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.

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

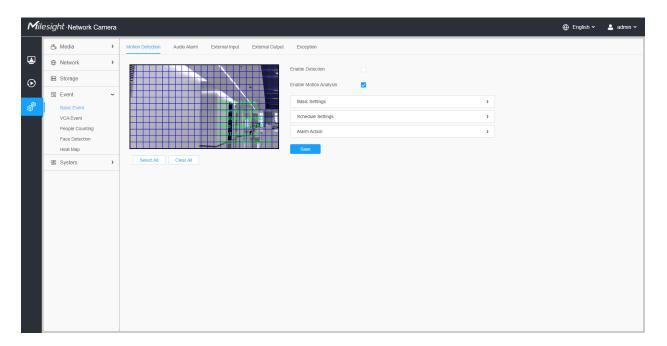
Video files are arranged by date. Set file type and start/end time to search out files. Each day files will be displayed under the corresponding date, from here you can copy and delete files etc. You can visit the files in SD card by ftp, for example, ftp://username:password@192.168.5.190(user name and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

Image       Name       Start Type       Add       Start Time       Operating       Start Time       Start       Time       Start       Start       Start       Start       Start       Time       Start       Time       Start       S	🖧 Media	>	Storage Manag	gement Record Settings Sr	apshot Settings Explorer			
File Name         Start Time         End Times         Type         Size           © Event         120220325192231         2022-03.25 19.22.31         2022-03.25 19.27.35         Timing         250.64M           © System         120220325192235         2022-03.25 19.27.35         2022-03.25 19.32.40         Timing         251.51M           Image: System         120220325195249         2022-03.25 19.32.40         Timing         251.93M           Image: System         120220325195249         2022-03.25 19.37.44         2002-03.25 19.47.49         Timing         251.94M           Image: System         12022032519249         2022-03.25 19.47.44         2002-03.25 19.47.49         Timing         251.94M           Image: System         12022032519249         2022-03.25 19.47.44         2002-03.25 19.47.49         Timing         251.94M           Image: System         12022032519249         2022-03.25 19.47.54         2022-03.25 19.52.58         Timing         250.99M           Image: System         12022032519259         2022-03.25 19.52.58         2022-03.25 19.50.20         Timing         250.99M           Image: System         120220325195269         2022-03.25 19.50.20         Timing         250.69M         250.69M         250.69M         250.69M         250.69M         250.69M         250.69M		>		0.12			N 40 50 50	
Image         Image <th< th=""><th>🗄 Storage</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	🗄 Storage							
Image: System         12022025192735         2022-05-25 19.32.40         Timing         251 61M           120220325193240         2022-05-25 19.32.40         2002-05-25 19.32.40         Timing         259 92M           120220325193744         2022-05-25 19.32.40         2002-05-25 19.32.40         Timing         251.61M           120220325193744         2022-05-25 19.32.40         2002-05-25 19.42.49         Timing         251.68M           120220325193744         2022-05-25 19.42.49         2022-05-25 19.47.54         Timing         251.48M           120220325194754         2022-05-25 19.47.54         2022-05-25 19.47.54         Timing         250.69M           120220325194754         2022-05-25 19.52.58         2022-05-25 19.52.58         Timing         250.69M           120220325194754         2022-05-25 19.52.58         2022-05-25 19.50.22         Timing         250.69M           120220325194754         2022-05-25 19.80.22         2022-05-25 19.50.08         Timing         250.69M	5 Event	>						
120220325193240         2022 03 25 19 37.44         Timing         250 92M           1 20220325193744         2022 03 25 19 37.44         2022 03 25 19 47.49         Timing         251 36M           1 20220325193744         2022 03 25 19 47.49         2022 03 25 19 47.54         Timing         251 36M           1 20220325194754         2022 03 25 19 47.54         2022 03 25 19 47.54         Timing         251 44M           1 20220325194754         2022 03 25 19 47.54         2022 03 25 19 52 58         Timing         250 89M           1 20220325194754         2022 03 25 19 52 58         2022 03 25 19 52 58         2022 03 25 19 50 22         Timing         250 69M           1 20220325194754         2022 03 25 19 50 22         2022 03 25 19 50 22         Timing         250 69M           1 20220325195058         2022 03 25 19 50 22         2022 03 25 19 50 02         Timing         250 69M           1 20220325195052         2022 03 25 19 50 02         2022 03 25 19 50 02         Timing         250 69M	লি System	>						
120220325194249         2022-03-25 19.47.54         Timing         251.44M           120220325194754         2022-03-25 19.47.54         2022-03-25 19.32.58         Timing         250.69M           120220325194754         2022-03-25 19.52.58         2022-03-25 19.52.58         Timing         250.69M           120220325195258         2022-03-25 19.58.02         Timing         250.69M           120220325195022         2022-03-25 19.58.02         Timing         251.65M								
120220325194754         2022-03-25 19.47.54         2022-03-25 19.52.58         Timing         250.89M           120220325195258         2022-03-25 19.58.02         Timing         250.69M           120220325195025         2022-03-25 19.58.02         Timing         250.69M           120220325195025         2022-03-25 19.58.02         2022-03-25 19.58.02         Timing         250.69M				120220325193744	2022-03-25 19:37:44	2022-03-25 19:42:49	Timing	251.36M
120220325195258         2022-03-25 19.52.58         2022-03-25 19.58.02         Timing         250.69M           120220325195602         2022-03-25 19.56.02         2022-03-25 20.03.08         Timing         251.65M				120220325194249	2022-03-25 19:42:49	2022-03-25 19:47:54	Timing	251.44M
120220325195602         2022-03-25 19 56 02         2022-03-25 20:03:08         Timing         251 65M				120220325194754	2022-03-25 19:47:54	2022-03-25 19:52:58	Timing	250.89M
				120220325195258	2022-03-25 19:52:58	2022-03-25 19:58:02	Timing	250.69M
120220325200006         2022-03-25 20.03.08         2022-03-25 20.07.37         Timing         221.72M				120220325195802	2022-03-25 19:58:02	2022-03-25 20:03:08	Timing	251.65M
				120220325200308	2022-03-25 20:03:08	2022-03-25 20:07:37	Timing	221.72M

# 8.4 Event

# 8.4.1 Basic Event

# 8.4.1.1 Motion Detection



**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 checkbox 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 42. Description of the buttons

Parameters	Function Introduction
Enable Detection	Check the checkbox to enable Motion Detection function.

Parameters	Function Introduction
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		

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;

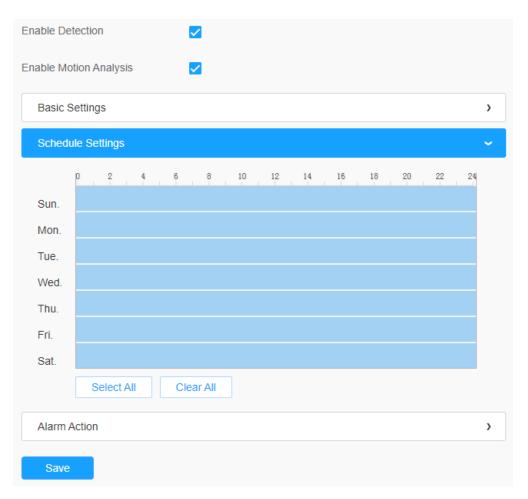


 Table 44. Description of the buttons

Parameters	Function Introduction	
Copy To × E Sun. Mon. Tue. Wed. Thu. Fri. Sat. Save	Copy the schedule area to another date.	
Select All	Select all schedule.	
Clear All	Clear all schedule.	

# [Alarm Action]

# Step6: Set alarm action;

Enable Motion Analysis	
Basic 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	>

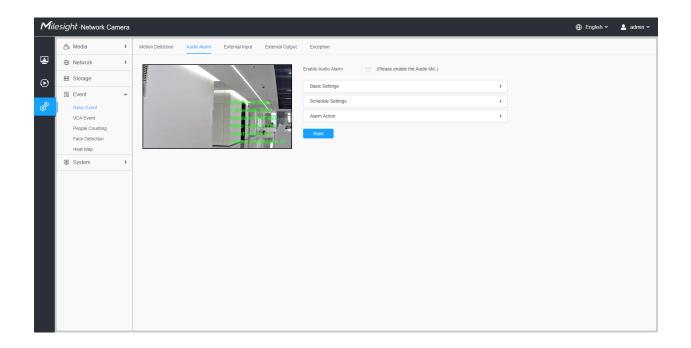
 Table 45. Description of the buttons

Parameters	Function Introduction
	<b>Duration:</b> Selected 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.
	<b>Linkage:</b> Save alarm recording files into SD Card or NAS, Upload the recording files via FTP and send alarm email.
External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration.
	Auto/10 seconds/30 seconds/1 minute/5 minutes/10 minutes are available.
Play Audio	<b>Note:</b> Please enable the Audio Speaker.
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.
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.  Note: Only for PTZ Bullet.
PTZ Motion	When the motion alarm triggered, PTZ Motion allows the camera move the lens to the motion triggered position and zoom in.
	<b>Note:</b> Only for PTZ series.
Call Preset/ Call Patrol/Call Pattern	When the motion alarm triggered, the specified preset/patrol/pattern can be called.
(Only for External Input)	<b>Note:</b> 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.



## [Basic Settings]

## Table 46. 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 105)</u> for the meanings of the items, here will not repeat again.

## [Alarm Action]

Refer to the table <u>Table 4 (page 106)</u> for the meanings of the items, here will not repeat again.

## 8.4.1.3 External Input

filesight ·Network Car	nera đ	🕽 English 🗸	💄 admin
🖧 Media	Motion Detection Audio Alarm External Input External Output Exception		
Network	Enable External Input		
Storage	Schedule Settings		
5 Event	Alarm Action		
Basic Event VCA Event People Counting Face Detection Heat Map	Save		
e loT	,		
System	)		

Refer to the table <u>Table 3 (page 105)</u> for the meanings of the items, here will not repeat again.

# 8.4.1.4 External Output

sight Network Camera		🕀 English 🗸	💄 admin 🗸
🖆 Media 🔹 🗘	Motion Detection Audio Alarm External Input External Output Exception		
Network     Network	Normal Status Settings		
E Storage	External Output Open O Grounded		
🗟 Event 🗸	Current Status Grounded		
Basic Event VCA Event People Counting Face Detection Heat Map System >	Manual Output Start Determal Output Action Time Manual Control IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
	Base Event     >       Base Event     >       VA Event     >       People Counting Face Detection Heat Map     >	Metwork Normal Status Settings   Storage External Output   External Output Open © Grounded   Storage Current Status   Basic Event Grounded   VCA Event Grounded   Normal Status Output Grounded   Normal Status Settings Grounded   Manual Output Statt   People Couring Manual Output   Heat Map Statt   PiolT Statt	Modia Modia Detection Audio Alam External Input External Output   Policy Namal Status Settings   Storage External Output Open   Storage Current Status Grounded   Storage Current Status Grounded   Storage Manual External Output Statu   Policy Counting Manual Control   Face Detection External Output Action Time   Heat Map Statu

[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 47. 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.

## 8.4.1.5 Exception

Mill	Milesight · Network Camera ⊕ English × 💄 admin ×			
	읍 Media 🔹	Motion Detection Audio Alarm Exception		
4	Network >	Alarm Type Network Disconnected		
$\odot$	E Storage	Enable Alarm		
¢ <sup>®</sup>	Event ~ Basic Event	Alarm Action		
, and a second s	VCA Event	Record >		
	People Counting Face Detection	Alarm to SIP Phone		
	Heat Map	HTTP Notification		
	System >	Save		

## Table 48. 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 105)</u> for the meanings of the items, here will not repeat again.

# 8.4.2 VCA Event

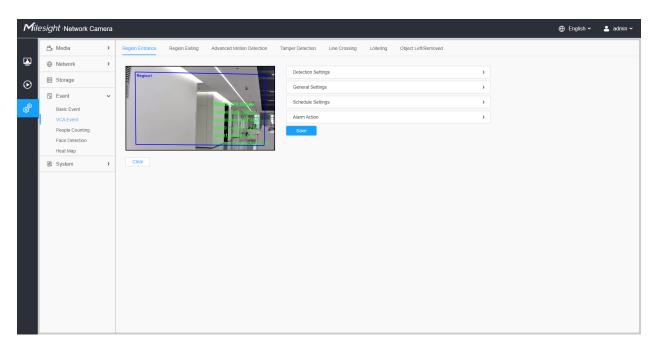
Smart Event uses VCA (Video Content Analysis) technology, which provides advanced, accurate smart video analysis for Milesight network cameras. Powered by AI chip, the new generation video analytics is capable of recognizing vast attributes of human, vehicle, and object pattern recognition models. As vehicle and human related events are 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 how to configure the VCA function, please refer to <u>https://</u><u>milesight.freshdesk.com/a/solutions/articles/new?translate=false</u>.

## 8.4.2.1 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.



Settings steps are shown as follows:

#### [Detection Settings]

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

**Step1:** Selected detection region and enable region entrance detection;

**Note:** If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far). And set object size limits.

**Step2:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events;

Detection Settings	~
Region         1         2         3         4	
Enable Detection	
Detection Object 🗹 Human 🗹 Vehicle	
Note: General Settings will take effect in all detection regions/lines!	
General Settings	>
Schedule Settings	>
Alarm Action	>
Save	

### [General Settings]

Step3: Set detecting sensitivity and object size limits;

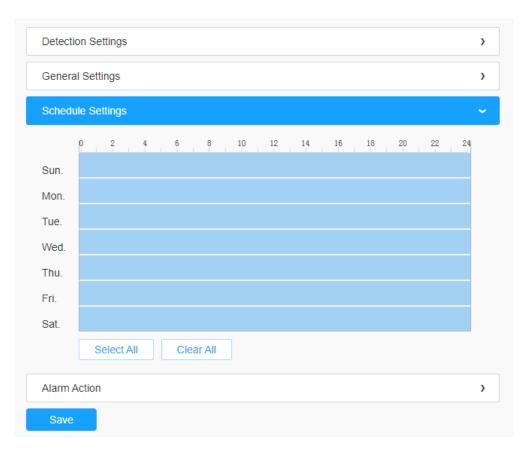
Detection Settings		>
General Settings		~
Sensitivity	5O	
Object Size Lim	its	
Edit		
• Min. Size	3 * 3 Pixels (1*1~320*240)	
O Max. Size	320 * 240 Pixels (1*1~320*240)	
Note: General Settings will take effect in all detection regions/lines!		
Schedule Settings		>
Alarm Action		>
Save		

# Table 49. 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. 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;



## Table 50. Description of the buttons

Parameters	Function Introduction
Copy To × E	Copy the schedule area to another date.
Select All	Select all schedule.
Clear All	Clear all schedule.

# [Alarm Action]

# Step5: 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	

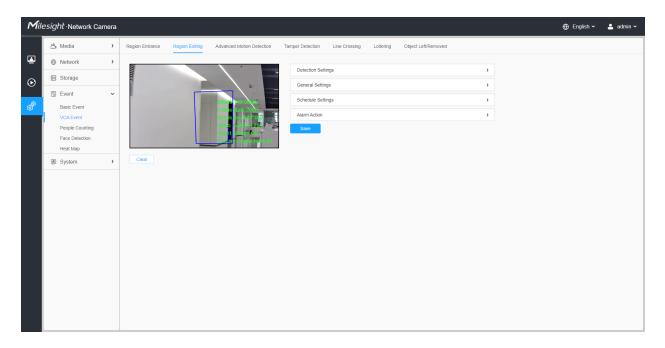
# Table 51. Description of the buttons

Parameters	Function Introduction
Record	<b>Duration:</b> Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available. <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	<b>Interval:</b> 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.
External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration.
Play Audio	Auto/10 seconds/30 seconds/1 minute/5 minutes/10 minutes are available.          Image: Note: Please enable the Audio Speaker.

Parameters	Function Introduction
Alarm to SIP Phone	Support to call the SIP phone after enabling the SIP function.  Note: Please open the SIP.
HTTP Notification	Support to pop up the alarm news to specified HTTP URL.
White LED	When the alarm triggered, White LED will turn on to warning the detected objects.  Note: Only for PTZ Bullet.
PTZ Motion (Only for Advanced Motion Detection)	When the motion alarm triggered, PTZ Motion allows the camera to move the lens to the motion triggered position and zoom in.  Note: Only for PTZ series.
PTZ Auto Tracking	<ul> <li>Camera will automatically track objects and trigger an alarm if objects enter the selected regions.</li> <li>Note: <ul> <li>Only for PTZ series.</li> <li>Please enable Auto Tracking on the PTZ interface first.</li> <li>PTZ Auto Tracking is checked by default.</li> </ul> </li> </ul>

# 8.4.2.2 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 detection region and enable region exiting detection;

**Note:** If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far). And set object size limits.

**Step2:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events;

Detection Settings	~
Region 1 2 3 4	
Enable Detection	
Detection Object 🗹 Human 🗹 Vehicle	
Note: General Settings will take effect in all detection regions/lines!	
General Settings	>
Schedule Settings	>
Alarm Action	>
Save	

### [General Settings]

Step3: Set detecting sensitivity and object size limits;

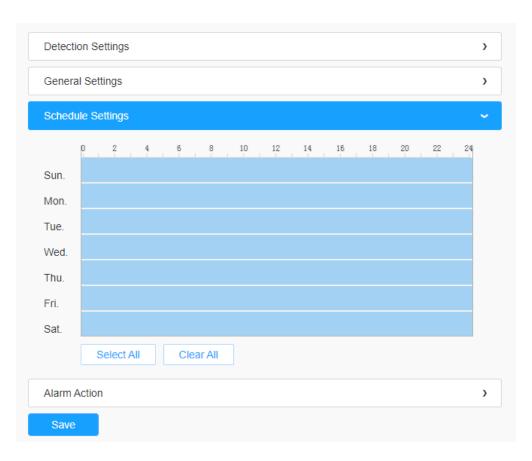
Detection Settings	>	
General Settings	~	
Sensitivity 5		
Object Size Limits		
Edit		
Min. Size     3     * 3     Pixels (1*1~320*240)		
Max. Size 320 * 240 Pixels (1*1~320*240)		
Note: General Settings will take effect in all detection regions/lines!		
Schedule Settings	>	
Alarm Action	>	
Save		

# 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.
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>8.4.2.1 Region</u> Entrance (*page 110*).

## [Alarm Action]

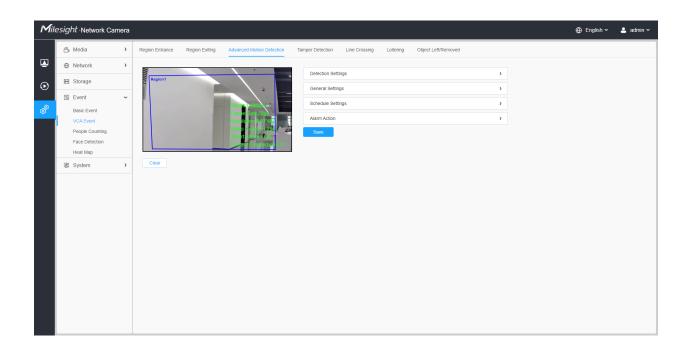
Step5: Set alarm action;

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>Table 3 (*page 114*)</u>.

## 8.4.2.3 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.



Settings steps are shown as follows:

Step1: Selected Detection Region and enable advanced motion detection;

**Note:** If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far). And set object size limits.

**Step2:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events;

Detection Settings	~
Region 1 2 3 4	
Enable Detection 🔽	
Note: General Settings will take effect in all detection regions/lines!	
General Settings	>
General Settings Schedule Settings	>
	-

# [General Settings]

**Step3:** 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;

Step4: Set detecting sensitivity and object size limits;

Detection Settings		>
General Settings		~
Ignore Short-Lived Mo	otion Off 🗸	
Sensitivity	8 <b></b> O	
Object Size Limits		
Min. Size	3 * 3 Pixels (1*1~320*240)	
O Max. Size	320 * 240 Pixels (1*1~320*240)	
Note: General Setting	s will take effect in all detection regions/lines!	
Schedule Settings		>
Alarm Action		>
Save		

Table 53	. Description	of the buttons
----------	---------------	----------------

Parameters	Function Introduction
Ignore Short-Lived Motion	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.  Note: Ignore Short-Lived Motion time is to avoid false alarm caused by instant object movement within time setting.
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. <b>Note:</b> 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]

**Step5:** Set detection schedule;

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 110*).

### [Alarm Action]

**Step6:** Set alarm action;

#### - Note:

- This part is the same as the regular alarm settings. You can refer to Table 3 (page 114).
- 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.

### 8.4.2.4 Tamper Detection

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

Mil	esight ·Network Carr	iera								🕀 English 🗸	💄 admin 🗸
	📇 Media	>	Region Entrance	Region Exiting	Advanced Motion Detection	Tamper Detection	Line Crossing	Loitering	Object Left/Removed		
<b>(</b>	Network	>	Detection Setti								
$\odot$	🗄 Storage		Enable Detec								
0	Event Basic Event VCA Event People Counting Face Detection Heat Map	~	Sensitivity Schedule Settin Alarm Action Save	6	o		> >				
	e loT	>									
	System	>									

Settings steps are shown as follows:

Step1: Enable Tamper Detection and set detecting sensitivity;

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

## [Schedule Settings]

**Step2:** Set detection schedule;

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 110*).

## [Alarm Action]

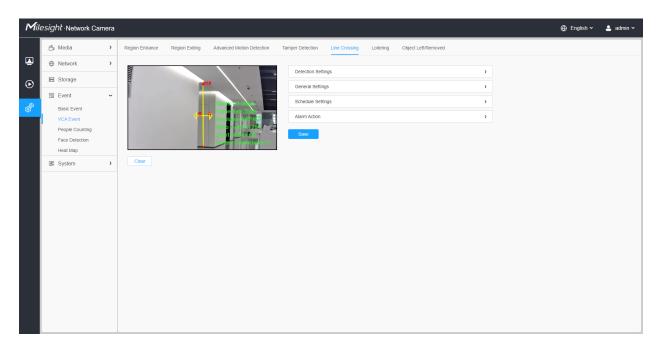
#### **Step3:** Set alarm action;

### = Note:

- This part is the same as the regular alarm settings. You can refer to Table 3 (page 114).
- 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.

#### 8.4.2.5 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.



Settings steps are shown as follows:

### [Detection Settings]

Step1: Select detection line, enable line crossing detection and define its direction;

= Note:

- If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far). And set object size limits.
- Allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm. "A $\rightarrow$ B" means when there is any object crossing the line from the "A" side to the "B" side, the alarm will be triggered. "B $\rightarrow$ A" vice versa. "A  $\leftrightarrow$  B" means that the alarm will be triggered when objects cross line from either side.

**Step2:** Choose detection object. Check Human or Vehicle attribute, and the camera will alarm once detecting people or vehicle and triggering related events;

Detection Settings	
Line	1 2 3 4
Enable Detection	
Direction	A>B ~
Detection Object	✓ Human ✓ Vehicle
General Settings	
Schedule Settings	
Alarm Action	
Save	

#### [General Settings]

Step3: Set detecting sensitivity and object size limits;

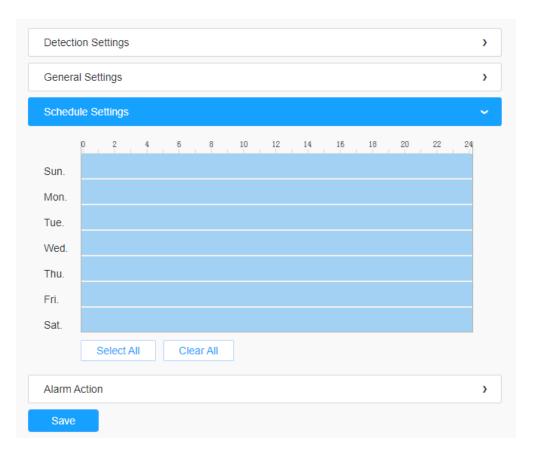
Detection Settings		>
General Settings		~
Sensitivity	5O	
Object Size Lim	its	
Edit		
<ul> <li>Min. Size</li> </ul>	3 * 3 Pixels (1*1~320*240)	
O Max. Size	320 * 240 Pixels (1*1~320*240)	
Note: General Se	ettings will take effect in all detection regions/lines!	
Schedule Settings		>
Alarm Action		>
Save		

# 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.
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>8.4.2.1 Region</u> Entrance (*page 110*).

## [Alarm Action]

Step5: Set alarm action;

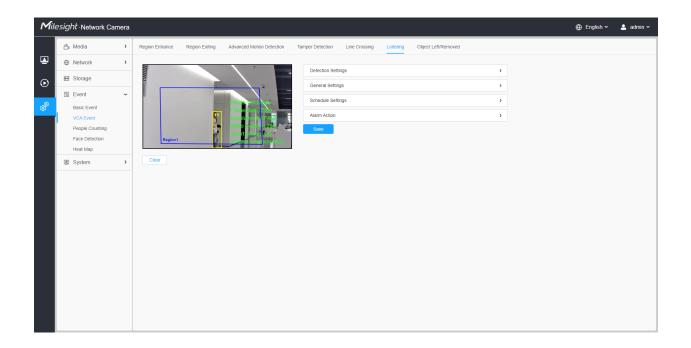
Detection Settings		>
General Settings		>
Schedule Settings		>
Alarm Action		~
Record	>	
Snapshot	>	
External Output	>	
Play Audio (Please enable the Audio Speaker.)		
Alarm to SIP Phone (Please open the SIP.)		
HTTP Notification	>	
White LED	>	
PTZ Auto Tracking (Please Enable the Auto Tracking)		
Save		

## **Note:**

- This part is the same as the regular alarm settings. You can refer to Table 3 (page 114).
- When enabling PTZ Auto Tracking, camera will automatically track objects and trigger an alarm if detecting objects crossing a defined virtual line
- 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.



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;

**Note:** If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far). And set object size limits.

**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		~
Region	1 2 3 4	
Enable Detection		
Min. Loitering Time	7	(3~1800)s
Detection Object	Vehicle	
Note: General Settir	ngs will take effect in all detection regions	s/lines!
General Settings		>
Schedule Settings		>
Alarm Action		>
Save		

# [General Settings]

Step4: Set object size limits;

Detection Settings			>	
General Settings			~	
Object Size Limit	s			
Edit				
Min. Size	3	* 3	Pixels (1*1~320*240)	
O Max. Size	320	* 240	Pixels (1*1~320*240)	
Note: General Set	tings will tak	ke effect ir	all detection regions/lines!	
Schedule Settings			>	
Alarm Action			>	
Save				

Table 55. Description of the buttons

Parameters	Function Introduction
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>8.4.2.1 Region</u> Entrance (*page 110*).

#### [Alarm Action]

**Step5:** Set alarm action;

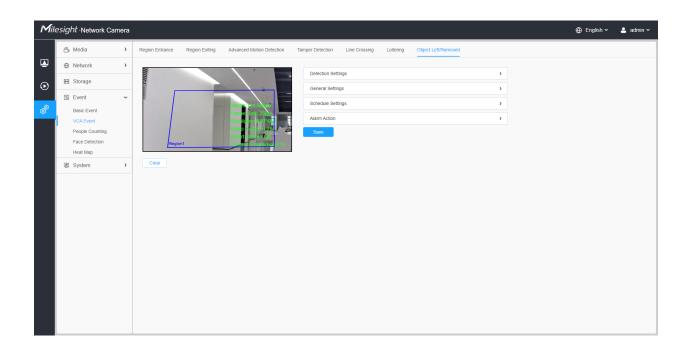
#### = Note:

- This part is the same as the regular alarm settings. You can refer to Table 3 (page 114).
- When enabling PTZ Auto Tracking and Loitering Detection, camera will automatically track objects and trigger an alarm if objects have been loitering in a defined area for more than the Min. Loitering Time.
- 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.



Settings steps are shown as follows:

#### [Detection Settings]

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

**Step1:** Selected detection region and enable object left/removed detection (Or you can enable both features at the same time);

**Note:** If you choose **Normal Mode**, it supports configuring the detection region for the current area. If you choose **Advanced Mode**(Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far). And set object size limits.

Detection Settings	~
Region 1 2 3 4	
Enable Detection Enable Object Left Enable Object Removed	
Note: General Settings will take effect in all detection regions/lines!	
General Settings	>
Schedule Settings	>
	>

# [General Settings]

Step2: Set Min. time, detecting sensitivity and object size limits.

Detection Settings	;	>
General Settings		~
Min. Time	20 (5~1800)s	
Sensitivity	5O	
Object Size Lim	its	
Min. Size	3 * 3 Pixels (1*1~320*240)	
Max. Size	3       *       3       Pixels (1*1~320*240)         320       *       240       Pixels (1*1~320*240)	
Note: General Se	ettings will take effect in all detection regions/lines!	
Schedule Settings		>
Alarm Action		>
Save		

 Table 56. Description of the buttons

Parameters	<b>Function Introduction</b>	
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]

Step5: Set detection schedule;

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 110*).

#### [Alarm Action]

**Step6:** Set alarm action;

#### **Note:**

- This part is the same as the regular alarm settings. You can refer to Table 3 (page 114).
- When enabling PTZ Auto Tracking, camera will automatically track objects and trigger an alarm if an object is left or removed in a defined area.
- 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 People Counting

### 8.4.3.1 People Counting

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

**Note:** For more details about how to use people counting, please refer to <u>https://</u>milesight.freshdesk.com/a/solutions/articles/69000639819.

Mill	esight ·Network Ca	amera						🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	People Counting	Regional People Counting	Statistics Report				
۲	Network	>			*	Line 1 2 3 4			
$\odot$	E Storage		line .			Enable Detection			
	Event	~		Plane and a	Direction A>B				
ø	Basic Event VCA Event				General Settings	>			
	People Counting			A Resolution of the second	indes 1264 📥 🗄	Schedule Settings	>		
	Face Detection Heat Map			an a counter and	Connections: 19	Counting Information	>		
	I System	>	Clear			Alarm Action	>		
						Sæe			

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

Settings steps are as shown below:

Step1: Enable People Counting;

Step2: Set detection line and direction.

### **Note:**

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

### [General Settings]

Step3: Set sensitivity and object size limits.

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

Line 1 2 3 4	
Enable Detection	
Direction B>A v	
General Settings	~
Sensitivity 5	
Object Size Limits	
Edit	
<ul> <li>Min. Size</li> <li>3 * 3 Pixels (1*1~320*240)</li> </ul>	
Max. Size 320 * 240 Pixels (1*1~320*240)	
Note: General Settings will take effect in all detection regions/lines!	
Schedule Settings	>
Counting Information	>
Alarm Action	>
Save	

# Table 57. 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. 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>8.4.2.1 Region</u> Entrance (*page 110*).

## [Counting Information]

**Step5:** Set counting information;

Counting Informatio	n	~
Count Type	All	
	✓ In ✓ Out Sum Capacity	
Total Counting	<ol> <li>(i)</li> </ol>	
Show OSD		
Font Size	Small	
Font Color		
Text Position	Top-Left 🗸	
Single Counting		
-		
Show Information		
Manual Reset	Reset	
	Reset the statistics report together?	
Auto Reset		
Day	Everyday	
Time	C 00:00:00	
Alarm Action		>
Save		

## Table 58. Description of the buttons

Parameters	Function Introduction
Count Type	Users can choose the information they want to display in Live Video.

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

# [Alarm Action]

Step6: Set alarm trigger and alarm action;

Direction	B>A	~			
General Settings					>
Schedule Settings					>
Counting Informat	on				>
Alarm Action					~
Alarm Trigger					
Total Counting	Single Counting				
Thresholds	<b>In</b> 9999	9	Out	9999	
	Capacity 9999	9	Sum	9999	
Alarm Action		9	Sum	9999	>
		9	Sum	9999	<b>&gt;</b>
Record Snaps		9	Sum	9999	
Record Snaps Extern	l		Sum	9999	>
Record Snaps Extern Play A	l not al Output	io Speaker.)	Sum	9999	>

# Table 59. Description of the buttons

Parameters	Function Introduction
	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.
Alarm Trigger	<ul> <li>Note:</li> <li>For Total Counting, the thresholds are the sum of the total number of 4 detection lines.</li> <li>For Single Counting, the threshold is for the selected detection line.</li> </ul>

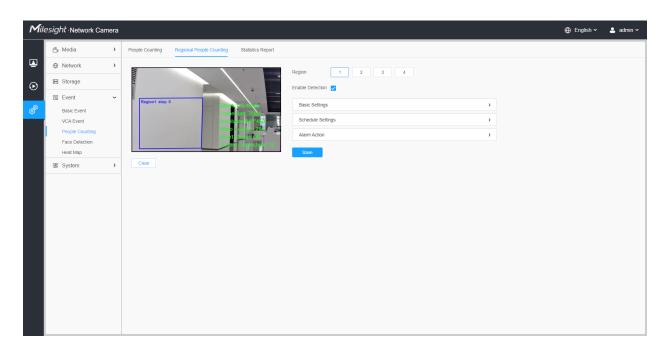
Parameters	Function Introduction
	This part is the same as the regular alarm settings. You can refer to <u>Table 3 (page 114)</u> .
Alarm Action	<ul> <li>Note:</li> <li>The alarm action is effective on 4 detection lines simultaneously.</li> <li>If you enable External Output and choose Constant External 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-xPC/PA.
- 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.



Settings steps are as shown below:

Step1: Select Detection Region and enable regional people counting detection;

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

#### [Basic Settings]

Step2: Set sensitivity and object size limits.

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

Basic Settings		~	
Basic			
Sensitivity	5O		
Object Size Lim	its		
Edit			
• Min. Size	3 * 3 Pixels (1*1~320*240)		
O Max. Size	320 * 240 Pixels (1*1~320*240)		
Note: General Settings will take effect in all detection regions/lines!			
Schedule Settings		>	
Alarm Action		>	
Save			

#### **Table 60. 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. 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>8.4.2.1 Region</u> Entrance (*page 110*).

# [Alarm Action]

Step6: Set alarm trigger and alarm action;

Alarm Action 🗸								
Alarm Trigger	Alarm Trigger							
Thresholds	✓ Max.Stay	60						
	✓ Min.Stay	1						
	- millouy							
	Max.Length of Stay	30	s					
Alarm Action								
Reco	rd		>					
Snap	shot		>					
Exter	External Output     Play Audio (Please enable the Audio Speaker.)     Alarm to SIP Phone (Please open the SIP.)							
Play								
Alarn								
HTTP	Notification		>					
Save								

## **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.

Parameters	Function Introduction
	This part is the same as the regular alarm settings. You can refer to <u>Table 3 (page 114)</u> .
Alarm Action	<ul> <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</li> </ul>

## 8.4.3.3 Statistics Report

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

Mile	esight Network Car	nera	e	) English 🗸	💄 admin 🛩
	🗂 Media	>	People Counting Regional People Counting Statistics Report		
•	Network	>	Main Type People Counting V Report Type Weekly Report V Statistics Type In V Statt Time 🕓 2022-03-28 00 00 00	Search	
$\odot$	E Storage		Statistics Result	Courten	
	Event	~	Total Line1 Line2 Line3 Line4		
ø	Basic Event VCA Event				
	People Counting		2022/03/28 00:00:00 ~ 2022/04/03 23:59:59 People Counting	소ᇓ쏘	
	Face Detection Heat Map		1	- <b>O-</b> In	
	I IoT	>	0.8		
	System	>			
			0.6		
			0.4		
			0.2		
			Mon. Tue. Wed. Thu. Fri. Sat. Sun.		
			Export	Auto Export	

Step 1: Select Main Type;

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

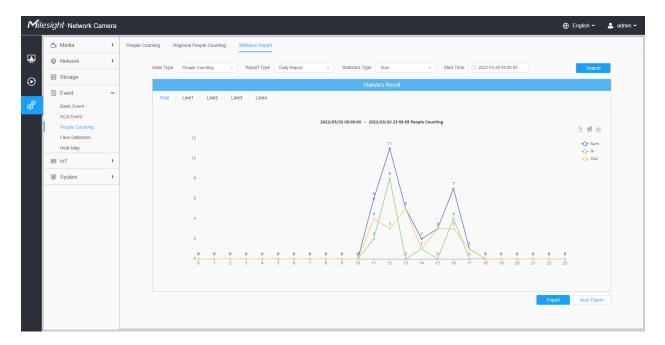
**Step3:** For people counting, select Statistics Type including In, Out and Sum. For regional people counting, select Length of Stay including All, More Then and Less Then and set the time of more then/less then.

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

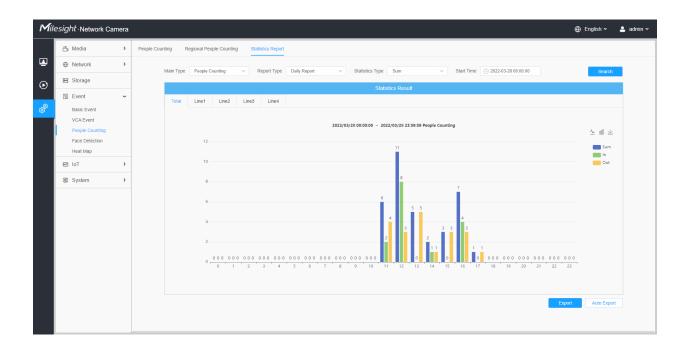
**Step4:** Select Start Time, then click "Search" button, the camera will automatically count the data for the day/ week/ month/ year (based on the report type selected by the user) from the start time and generate the corresponding report.

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

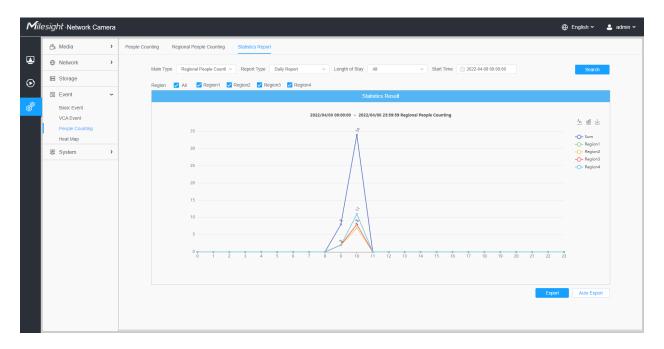
People Counting-Statistics Report (Line Chart)



People Counting-Statistics Report (Bar Chart)



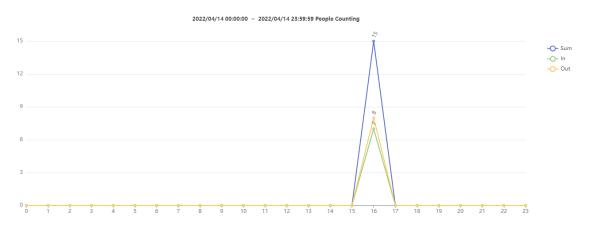
Regional People Counting-Statistics Report (Line Chart)



Regional People Counting-Statistics Report (Bar Chart)

Mile	esight ·Network Can	nera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	People Counting Regional People Counting Statistics Report		
۲	Network	>	Main Type Regional People Counti v Report Type Daily Report v Length of Stay All v Start Time C 2022-04-08 00:00 00	Search	
$\odot$	🖹 Storage		Region 🗹 All 🖉 Region1 🖉 Region2 🖉 Region4		
~	5 Event	~	Statistics Result		
¢°	Basic Event VCA Event People Counting		2022/04/08 00:00:00 ~ 2022/04/08 23:59:59 Regional People Counting	쇼 💷 坐	
	Heat Map	>	30	Sum Region1 Region2 Region3	
			20	Region4	
			10 <b>0 0 0 0 0 0 0 0 0 0</b>		
			0 0 ' 1 ' 2 ' 3 ' 4 ' 5 ' 6 ' 7 ' 8 <sup>9</sup> 9 ' 10 ' 11 ' 12 ' 13 ' 14 ' 15 ' 16 ' 17 ' 18 ' 19 ' 20 ' 21 ' 22 ' 2	13	
			Exp	Auto Expor	t

**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	0.011			
File Format	CSV			
Line	🛃 All			
	🔽 Total	🛃 Line1	🔽 Line2	
	🗸 Line3	<mark> </mark> Line4		
	Export		Cancel	

Regional People Counting-Export

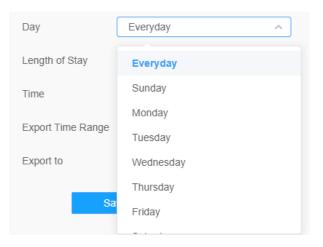
Ехр	ort	
File Format	CSV	
Export	Cancel	

**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	🗸 All	
	🔽 Total 🛛 🔽 Line1 🔽 Line2	
	✓ Line3 ✓ Line4	
Day	Everyday	
Time	© 00:00:00	
Export Time Range	Last 1 day 🗸	
Export to	FTP Email Storage	
_	Save Cancel	
	Calicer	

- 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		
	-	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>• •</b> 6 7		Cancel	OK	<del>• •</del> 11 12

• Set Export Time Range;

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

• 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	© 00:00:00	
Export Time Range	Last 1 day 🗸	
Export to	FTP Email Storage	
Sa	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
	Monday
Export Time Range	Tuesday
Export to	Wednesday
_	Thursday
Sa	Friday

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

• Set Export Time Range;

Export Time Range	Last 1 day	^
Export to	Last 1 day	
Sa	Export All	
04		

• 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.

#### 8.4.4.1 General

Mill	esight Network Car	nera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	General Advanced		
	Network     Network	>	Enable Face Detection		
$\odot$	E Storage		Basic Settings		
ŵ	Event	~	Min. Obiect Sites and Ant		
ø	Basic Event VCA Event		Alarm Action		
	People Counting Face Detection		Video Concell darial Face Detection Message Post Settings		
	Heat Map		Sac		
	System	>	Clear 🔅 🧭		

Settings steps are as shown below:

Step1: Enable Face Detection;

#### [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;

Enab	le Face Detection				
В	asic Settings				~
I	Object Size Limits				
	Min. Size	30 🔿 —			
I	Shield Region				
	ID	Name	Enable	Operation	
		No Da	ata		
	Delete All	No Da	ata		
S	Delete All chedule Settings	No Da	ata		>
		No Da	ata		> >
A	chedule Settings		ata		

### [Schedule Settings]

**Step5:** Set detection schedule.

**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 110*).

#### [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
Record	<ul> <li>Duration: Select 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>

## [Face Detection Message Post Settings]

**Step6:** Enable face detection Messagr post.

Enable Face Detection		
Basic Settings		>
Schedule Settings		>
Alarm Action		>
Face Detection Message Post Settings		~
Enable Face Detection Message Post	t 🗌	
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

Mile	esight Network Cam	iera		🕀 English 🗸	💄 admin 🛩
	🖧 Media	>	General Advanced		
	Network	>	Face Capture Settings		
$\odot$	🗄 Storage		Capture Mode O Quality Priority O Timeliness Priority O Customize		
â	la Event	ř	Capture Quality 20		
ø	Basic Event VCA Event		Snapshot Type Face Only Background		
	People Counting Face Detection Heat Map		Attribute Recognition Settings Enable Attribute Recognition		
	e loT	>	Altribute Z All		
	😰 System	>	🖌 Age 📝 Gender 🗹 Glasses		
			Face Privacy Settings         Enable Face Privacy Mode         ①         Stave		

### [Face Capture Settings]

Here you can make configuration for face capture snapshot.

Parameters	Function Introduction
	Auto Mode, Quality Priority, Timeliness Priority, Customize are available. Auto Mode: In this mode, it will push a face screenshot based on screenshot quality and push speed when the face is detected.
Capture Mode	<b>Quality Priority:</b> In this mode, it will push a face screenshot of best quality when the face is detected.
	<b>Timeliness Priority:</b> In this mode, it will push a face screenshot in the shortest time when the face is detected.
	<b>Customize:</b> In this mode, you can customize some detect conditions, including Snapshot Interval, Oblique Face Angle Limit, Pitching Face Angle Limit, Side Face Angle Limit, Blur Limit.
Snapshot Interval	80 milliseconds, 200 milliseconds, 500 milliseconds, 1 second, 2 seconds and 4 seconds are available.
	<b>Note:</b> Optional for Customize mode.
Oblique Face Angle Limit	Set <b>Oblique Face Angle Limit to 1~180.</b> The larger the value, the larger angle the oblique face that can be detected.
Pitching Face Angle Limit	Set <b>Pitching Face Angle Limit to 1~180.</b> The larger the value, the larger angle the pitching face that can be detected.
	Note: Optional for Customize mode.
Side Face Angle Limit	Set <b>Side Face Angle Limit to 1~180.</b> The larger the value, the larger angle the side face that can be detected.
	<b>Note:</b> Optional for Customize mode.
Blur Limit	Set <b>Blur Limit to 1~10.</b> The larger the value, the more blurred the face can be detected.
	<b>Note:</b> Optional for Customize mode.

#### Table 64. Description of the buttons

Function Introduction
Face Only, Upper Body, Whole Body are available. Face Only: Capture the screenshot of face only.
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.

Parameters	Function Introduction
	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.
Enable Attribute Recognition	
	<ul> <li>Note:</li> <li>Please make sure the face detection function is enabled.</li> <li>Make sure the Capture Mode Option is set to Quality Priority.</li> <li>Attribute Recognition function cannot be used together with Face Privacy function.</li> </ul>

#### Table 65. Description of the buttons

Parameters	Function Introduction
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** 

Parameters	Function Introduction
Enable Face Privacy Mode	When Face Privacy Mode 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:** To enable Face Privacy Mode, video parameters should be:

- H.265 video codec (all streams).
- Primary Stream: 1080P@25fps.
- Secondary Stream: 704\*576@25fps.
- Tertiary Stream: Disabled.

• Face Capture/Face Detection Message Post/Attribute Recognition are not available in Face Privacy Mode.

You can change video parameters to recommended configuration in the pop up window:

Tips × To enable Face Privacy Mode, video parameters will be modified to recommended configuration, are you sure to continue? OK Cancel

### 8.4.5 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.

8.4.5.1 Heat Map

- Note:

- Make sure your camera model is MS-Cxxxx-xPC/PA.
- 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 <u>https://milesight.freshdesk.com/a/</u> solutions/articles/69000643314.

Mil	esight ·Network Car	mera		🕀 English 🗸	💄 admin 🗸
	🖺 Media	>	Heat Map Report		
	Network	>	Enable Heat Map		
€	E Storage		Basic Settings		
*	<ul> <li>Event</li> <li>Basic Event</li> <li>VCA Event</li> <li>People Counting</li> <li>Face Detection</li> <li>Heat Kap</li> <li>System</li> </ul>	>	Schedule Settings		

### **Step1:** Enable Heat Map function.

### [Basic Settings]

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

 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 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.

Mill	e <i>sight</i> ∙Network Car	nera		🕀 English 🗸	💄 admin 🛩
	🖧 Media	>	Heat Map Report		
•	Network     Network	>	Enable Heat Map 🔽 🛈		
$\odot$	E Storage		Enable Heat Map 🗹 🛈		
ø	5 Event	~	Basic		
¢.	Basic Event VCA Event		Sensitivity 5		
	People Counting Face Detection		Min. Object Size 10 -0		
	Heat Map		Min. Dwell Time 30 s(1-300)		
	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>8.4.2.1 Region</u> Entrance (*page 110*).

#### 8.4.5.2 Report

The heat map results will be displayed on this interface.

Mile	sight Network Ca	mera										🕀 English 🗸	💄 admin 🖌
	🖧 Media	>	Heat Map	Report									
	Network     Network	>		Main Type Space H	leat Map →	Report Type	Daily Report	✓ Start Time				Search	
$\odot$	E Storage				our mp		out report		Space Heat Map			ocurar	
3 <sup>9</sup>	<ul> <li>Event</li> <li>Basic Event</li> <li>VCA Event</li> <li>People Counting</li> <li>Face Detection</li> <li>Heat Map</li> </ul>	~											
	e loT	>											
	l System	>											
											Export	Auto Export	

Step1: Select Main Heat Map Type.

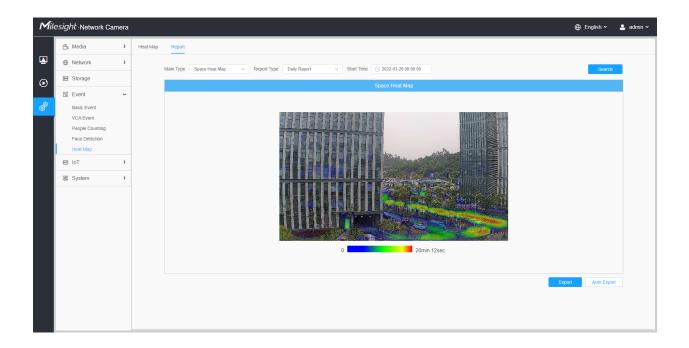
[**Space Heat Map**]: Space Heat Map will be presented as a picture with different colors. Different colors represent different heat values. Red represents the highest and blue represents the lowest.

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

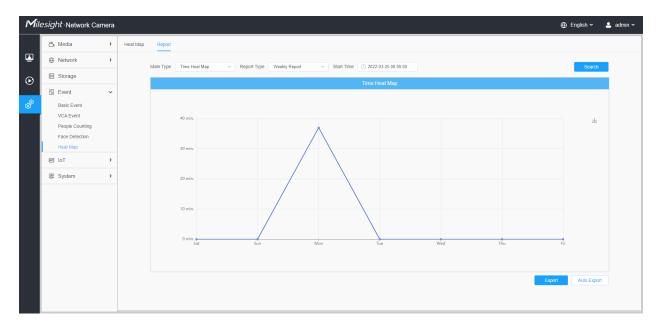
Step2: Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report.

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.

Enable Space Heat Map   Day Everyday   Time 00:00:00   Export Time Range	
Time ( ) 00:00	
Export Time Range	
Export find frange	
Export to	
Save	

- 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 Ma	p
Day	Everyday ^	
Time		
TITIC	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	e Heat Map	Ti	me Heat Map						
Day	Everyda	ay	×							
Time	· 02:00	00:00								
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	<b>()</b> 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	Мар
Day	Tuesday ~	
Time	• 02:00:00	
Export Time Range	Last 1 day 🗸 🗸	
Export to	FTP Email 🗹 Storage	
s	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

Mil	esight Network Camer	a									🕀 English 🗸	💄 admin 🗸
	🖆 Media 🔹 💙	•	Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
4	Network											
$\odot$	Storage		Basic PTZ OSD				>					
	5 Event >		Others				>					
ø	S PTZ											
<b>a</b>	(@) LPR >		Save									
	System >											

### [Basic]

Mile	esight Network Came	ra									🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Basic Auto Home P	TZ Limits	Initial Position P	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
•	Network	>										
$\odot$	😫 Storage		Basic Preset				~					
	la Event	>	Preset Freezing									
ø	S PTZ											
	lPR	>	Speed Preset Speed	5		~						
	System	>		0		Ť						
			Patrol Patrol Recovering									
			Patrol Recovery Time			s	(5-720s)					
			Focus									
			Focus Mode	Sen	ni-Auto	~						
			Minimum Focus Distance	e 1 m	1	*						
			PTZ OSD				>					
			Others				>					
			Save									

 Table 68. 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.
Speed	Manual Speed: It determines the PTZ speed of Manually control. Low/ Medium/ High are available. Note: Only for Speed Dome.
	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	sight ·Network Ca	mera									🌐 English 🗸	💄 admin 🗸
	🖧 Media	>	Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
۲	Network	>										
$\odot$	🖹 Storage		Basic				>					
	5 Event	>	PTZ OSD Zoom Status	Always Open			¥					
ø	S PTZ		Pan & Tilt Status	Always Open								
a	(n) LPR	>	Preset Status	Always Open								
	System	>	Patrol Status	Always Open								
			Pattern Status	Always Open								
			Auto Scan Status	Always Open								
			Others				>					
								Sa	ve			

#### Table 69. 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]

Mile	esight ·Network Cam	era									🕀 English 🗸	💄 admin 🗸
	🐣 Media	>	Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
۲	Network	>										
$\odot$	E Storage		Basic PTZ OSD				>					
	5 Event	>	Others				,					
ø	🔉 PTZ		Power Off Memory									
	🙊 LPR	>	Set Resume Time	Disabled		~						
	🗟 System	>	Dehumidifying									
			Fan Working Mode	General		~						
								Sa	ve			

### Table 70. 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.
	Fan Working Mode: 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

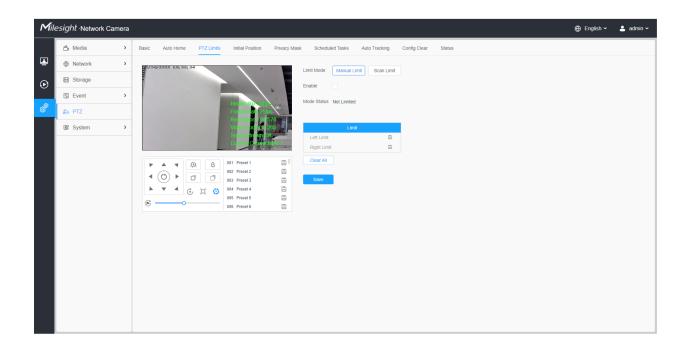
Mile	e <i>sight</i> ·Network Ca	amera									🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Basic	Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking Config Clear	Status		
	Network	>			/			Enable	<b>Z</b>			
$\odot$	E Storage					-	CH3	Latency Time	5	s (5-270s)		
	5 Event	>						Auto Home Mode	Preset			
ø	🔉 PTZ			Frame Rate 25fps	Auto Home Mode Number		Call					
	(R) LPR	>			Video Codec H.2	64	Save					
	System	>					tions <b>3</b>					

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

Parameters	Function Introduction
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.
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.

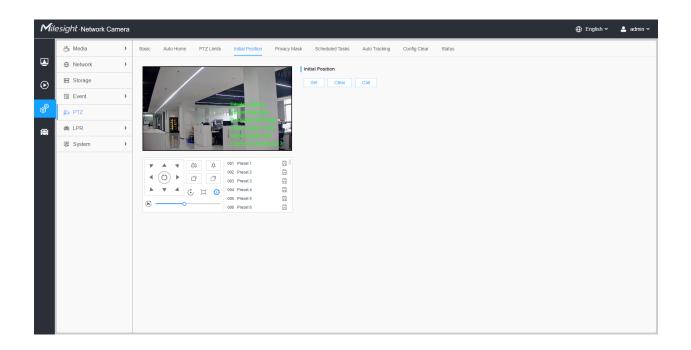
• Scan Limit:

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.

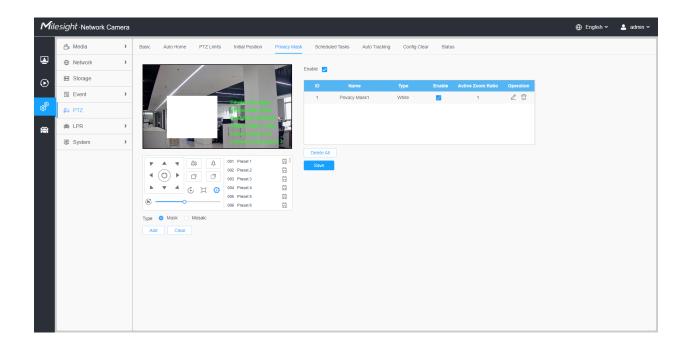
Step2: Click Set to save the position as the Initial Position.

 Table 72. 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.



#### [Privacy Mask]

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

**Note:** 

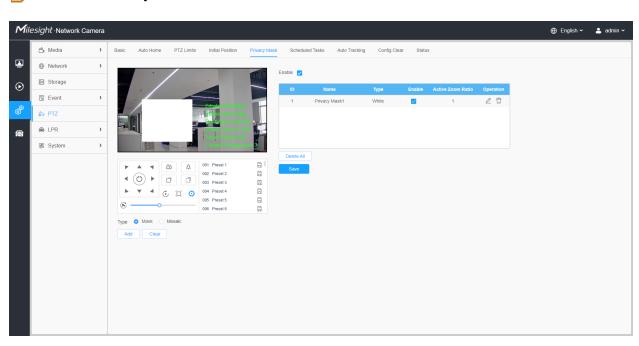
- For the MS-Cxxxx-xPC model, up to 24 mask areas and 4 mosaic areas are supported.
- For the MS-Cxxxx-xPA model, up to 24 mask areas are supported.

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
Delete All	Clear all areas you drew before
Name	Support to customize the name of Privacy Mask

Parameters	Function Introduction
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

#### [Mosaic type of Privacy Mask]

You can select the color type and mosaic type to use for the cover certain areas on the live video. The mosaic type can maintain the continuity of the picture and improve the visual effect. Up to 28 mask areas are supported, which includes 24 mask areas and 4 mosaic areas.



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

#### Table 74. Description of the buttons

Parameters         Function Introduction						
Enable	Check the check box to enable the Privacy Mask function.					
Туре	Select the type to use for the privacy areas, there are two types available: Mask and Mosaic.					
Add	Drew an privacy area on the live video as needed.					

Parameters		Function Introduction								
Clear	Clear the area you dre	w on the live video.								
	□, ☑	Enable/disable the selected ROI areas.								
Operation	2	Change the color of Mask area, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and Violet								
		Delete the privacy mask area								

## 8.5.6 Schedule Tasks

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

Mill	esight Network Ca	mera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Basic Auto Home PTZ Limits Initial Position Privacy Mask Scheduled Tasks Auto Tracking Config Clear Status		
۲	Wetwork     Network     Network	>	Enable		
$\odot$	E Storage		Schedule Settings		
	3 Event	>	ovineurie areanings _ 0 2 4 6 8 10 12 14 16 18 20 22 24		
Ø	S PTZ		Sun Close Auto Scan		
<b>a</b>	📾 LPR	>	Mon.		
	🐼 System	>	WedPattern ✓ Check		
			Tru. Fr Sat. Setect All Clear All Tasks Interference Settings Latency Time 5 s (5-720s) Sove		

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.

Mile	esight ·Network Car	mera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Basic Auto Home PTZ Limits Initial Position Privacy Mask Scheduled Tasks Auto Tracking Config Clear Status		
۲	Network	>	Enable 💟 🛈		
$\odot$	🗄 Storage		Report to Motion Detection (Please enable Motion Detection first.)		
	5 Event	>	Basic Settings		
ø	🔊 PTZ		Show Tracking		
	lPR 📾	>	Sensitivity 5		
	I System	>	Max. Tracking Time 30 (5-300s)		
			Image: Select All       Other Preset 2       Image: Select All       Auto Mode         Image: Select All       Other Preset 3       Image: Select All       Image: Select All       Image: Select All         Image: Select All       Clear All       Image: Select All       Image: Select All       Image: Select All         Image: Select All       Clear All       Image: Select All       Image: Select All       Image: Select All         Image: Select All       Clear All       Image: Select All       Image: Select All       Image: Select All         Image: Select All       Clear All       Image: Select All       Image: Select All       Image: Select All		

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

Mile	esight ·Network Ca	amera									🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
•	Network	>	Config Clear									
$\odot$	E Storage		All									
	5 Event	>	All Presets	🗸 All Patrols	🛃 All Pa	itterns						
ø	🔊 PTZ		All Auto Homes	All PTZ Limits		heduled Tasks Tracking						
	🙊 LPR	>	Clear	-	_							
	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 Ca	mera											🕀 English 🗸	💄 admin 🗸
	🖧 Media	~	Basic Auto	o Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	RS485	Status		
۲	Video Image		Status Info											
$\odot$	Audio		Protocol	Pelco-D		×								
	Network     Network	>	Baudrate	9600		~								
ø	E Storage		Data Bit	8		~								
	5 Event	>	Stop Bit	1		~								
	🔊 PTZ		Parity	None		~								
	I System	>	Flow Control	None		~								
			PTZ Address	1										
			Save											

## 8.5.10 Status

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

Mile	e <i>sight</i> ∙Network Ca	imera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Basic Auto Home PTZ Limits Initial Position Privacy Mask Scheduled Tasks Auto Tracking Config Clear Status		
•	Network	>	Status Info		
$\odot$	🗄 Storage		Temperature 42.29°C		
	5 Event	>	Fan Working		
ø	🔊 PTZ				
	A LPR	>			
	System	>			

# 8.6 LPR (Optional)

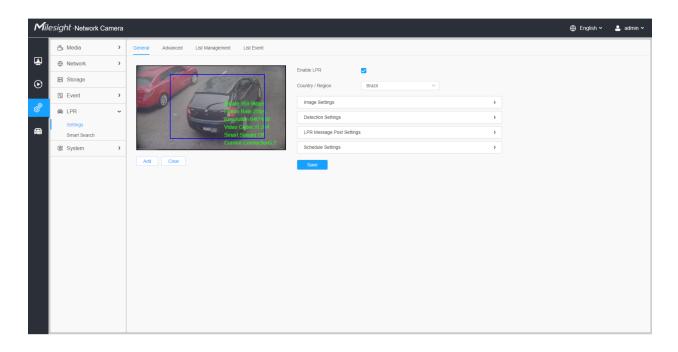
### 8.6.1 Settings

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

#### **F** Note:

- Currently we have several LPR versions, LPR1, LPR2, LPR3, LPR 4, LPR EU, LPR AP and LPR AM. LPR\_EU, LPR2 are for European. LPR1 and LPR\_AP are for Asia&Pacific. LPR4 and LPR\_AM are for America. LPR3 is for Korea.
- There is only Basic Event under Event Tab for LPR cameras.
- For more details about how to set ANPR solution, please refer to <u>https://</u> milesight.freshdesk.com/a/solutions/articles/69000640021.
- For more details about how to set LPR1, please refer to <u>https://milesight.freshdesk.com/a/</u> solutions/articles/69000797908.
- For more details about how to set LPR2, please refer to <u>https://milesight.freshdesk.com/a/</u> solutions/articles/69000797905.
- For more details about how to set LPR3, please refer to <u>https://milesight.freshdesk.com/a/</u> solutions/articles/69000797904.

8.6.1.1 General



#### Table 75. Description of the buttons

Parameters	Function Introduction
Enable Detection	Enable/disable the LPR detection function.
Country/ Region (Only for LPR1 and LPR EU)	Select country/ region to detect the license plate.
Effective Region (Only for PTZ series)	<b>Normal:</b> configure the LPR detection regions for the current area. <b>Advanced:</b> configure different LPR detection regions for different PTZ presets(Only support Preset 1~4 so far).

**Step1:** Check the check box to enable the LPR detection function. Select country/ region to detect the license plate.

**Note:** For LPR2 and LPR3, please enter a license to activate the LPR function on System info interface. When the License Status changes to Valid, the camera can start detecting the license plates.

#### [Image Settings]

**Step2:** The LPR Night Mode supports the optimal LPR night recognition effect by adjusting different parameter levels. You can choose Customize to set effective time manually, or choose Auto Mode which can automatically switch to night mode according to illumination intensity.

Enable LPR		
Country / Region	Australia	
Image Settings		~
Enable LPR Night Mode		
Effective Time	Auto Mode 🗸	
Day to Night Value	36 Reset	
Night to Day Value	82O Reset	
IR Light Sensor Value	100 🔾	
Level	4 (i)	
Detection Settings		>
LPR Message Post Settings	\$	>
Schedule Settings		>
Save		

### Customize Mode

Image Settings		~
Enable LPR Night Mode		
Effective Time	Customize	
Start Time	18:00	
End Time	<b>()</b> 06:00	
Level	4 (j)	

Auto Mode

Image Settings		~
Enable LPR Night Mode		
Effective Time	Auto Mode 🗸	
Day to Night Value	36O Reset	
Night to Day Value	82O Reset	
IR Light Sensor Value	100⊖	
Level	4 (j)	

# Table 76. Description of the buttons

Parameters	<b>Function Introduction</b>
Enable LPR Night Mode (Only for LPR3 and LPR EU)	With this option enabled, the camera will enable different detection modes according to Day/Night mode.
Enable Vehicle Speed Detection (Only for LPR3)	<ul> <li>With this option enabled, the camera will detect the vehicle speed and display results on the Smart Search interface.</li> <li>You need to draw two lines(Line1 and Line2) on the live view, and fill in Camera Installation Height, Horizontal Distance1 and Horizontal Distance2, camera will combine the lines you draw and the data filled to calculate the vehicle speed.</li> <li>Camera Installation Height: real height of camera.</li> <li>Horizontal Distance1: real distance between camera pole and line1.</li> <li>Horizontal Distance2: real distance between camera pole and line2.</li> </ul>
	<ul> <li>Speed of vehicle</li> <li>Requirement         <ul> <li>Real height of camera (H) (unit: meter)</li> <li>Real distance between camera pole and line (d1, d2) (unit: meter)</li> <li>Pixel position of each line (y1, y2) (unit: pixe)</li> </ul> </li> <li>To be changed UI         <ul> <li>Drawable two lines</li> <li>Edit boxes to input camera height and distance of each line</li> <li>To be changed UI</li> <li>Drawable two lines</li> <li>Edit boxes to input camera height and distance of each line</li> </ul> </li> </ul>
Effective Time	You can choose Customize to set effective time manually, or choose Auto Mode which can automatically switch to night mode according to illumination intensity.

Parameters	Function Introduction
Level	Level 1~10 are available. Note: Minimum Shutter of each Level : 1- 1/250, 2- 1/500, 3- 1/750, 4- 1/1000, 5- 1/2000.

## [Detection Settings]

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

Detection Settings			~
Detection Region (j)			
ID	Name	Operation	
1	ROI_1	2 1	
Delete All			
Detection Settings			
Processing Resolution	1280*720	~	
Detection Trigger	Alarm Input	~	
Confidence Level	4		
Repeat Plate Checktime	0	ms 💉 (0-60000)	
License Plate Serial Format	Edit		
Features Identification	- All		
	_	Vehicle Type	
		Detection Region	
	Direction	Country / Region	
LPR Message Post Settings			>
Schedule Settings			>
Save			

Parameters		Function Introduction		
Add	area, only four recognition	Draw the screen to select the area interested, then click "Add"button to add the area, only four recognition areas can be added. You can edit the name of the area or delete the area in the list below.		
	ID	Name	Operation	
	1	ROI_1	2 🗇	
	2	ROI_2	2 1	
	<b>Note:</b> Only license	plates larger than 150 pixe	ls can be recognized.	
Clear	Click the "Clear" button t	Click the "Clear" button to clear the area being drawn.		
Delete All	Click the "Delete All" but	ton to delete all the added	areas.	

### Table 77. Description of the buttons

Step4: Set Detection Settings.

## Table 78. Description of the buttons

Parameters	Function Introduction
Processing Resolution	Resolution of the stream for LPR analysis, including 1920*1280, 1280*720, 640*360, 320*176.
Detection Trigger	<b>Always:</b> in this mode, camera will always detect license plates. <b>Alarm Input:</b> in this mode, camera will only detect license plates during Alarm Input is being triggered.
Repeat Plate Checktime	Set the time interval for repeatedly reading license plates to effectively avoid duplicate identification of parking vehicles. You can set Repeat Plate Checktime from 0 to 60min or 0 to 60000ms.
License Plate Serial Format	License Plate Serial Format function supports formulating identification rules and can automatically do further processing, filter license plates in non- compliant formats to achieve more intelligent and accurate license plate recognition.
Features Identification	Check Country/Region(Only for LPR2 and LPR_EU), Direction Region, Direction or All to enable Feature Identification, it will display the corresponding information on the Smart Search interface.

Step5: Set LPR Message Post Settings.

Enable LPR		
Country / Region	Australia	
Image Settings		>
Detection Settings		>
LPR Message Post Setting	S	~
Enable LPR Message Pos	st 🔽	
Post Type	O HTTP • TCP O RTSP	
Camera LPR Port	3344	
Schedule Settings		>
Save		

## Table 79. Description of the buttons

Parameters	Function Introduction
Enable LPR Message Post	Check the checkbox to enable LPR Message Post. It will push information to some third-party devices or software that are compatible with ours.
Post Type	Information can be pushed by <b>RTSP</b> , <b>TCP</b> or <b>HTTP</b> .
HTTP Method	There are two HTTP push methods, including Post and Get.
Snapshot Type	Three kinds of snapshot can be chosen: All, License Plate and Full Snapshot. When you choose All, License Plate Snapshot and Full Snapshot will be pushed. Note: This option is available just for Post HTTP Method.
HTTP Notification URL	LPR camera can use the API URL to send LPR information to back-end devices when the license plate is recognized. API URL format fills as below: <u>http://IP:Port/api/lpr</u> ?
User Name	Receiver name
Password	Receiver Password

## [Schedule Settings]

Step6: Schedule Settings.

Enable LPI	R 🔽	
Country / F	Region Australia v	
Image \$	Settings	>
Detectio	on Settings	>
LPR Me	essage Post Settings	>
Schedu	ule 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	
Save		

## Table 80. Description of the buttons

Parameters	Function Introduction
Copy To × E	Copy the schedule area to another date.
Select All	Select all schedule.

Parameters	Function Introduction
Clear All	Clear all schedule.

#### 8.6.1.2 Advanced

In the interface, you can set display information on snapshot of license plate recognition, and also customize the file name of snapshots which are uploaded via FTP or Email or stored on local LPR Picture File Path.

Mile	sight Network Came	ra							🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	General Advanced	List Management	List Event					
⊡	Network	>								
$\odot$	E Storage		Snapshot OSD			>				
	la Event	>	Snapshot File Name			>				
ø	PTZ									
	lPR	~								
	Settings									
	Smart Search	_								
	System	>								
							Save			

[Snapshot OSD]

٦

Mile	esight Network C	amera				
	省 Media	>	General Advanced	List Management	List Event	
₽	Network	>				
$\odot$	🗄 Storage		Snapshot OSD			· · · · · · · · · · · · · · · · · · ·
	5 Event	>	Font Size	Medium	~	
ô	⇒ PTZ		Font Color		•	
			Background Color			
<b>a</b>	(n€) LPR	ř	OSD Position	Тор	~	
	Settings Smart Search		OSD Information	🗹 All		
	🗟 System	>		Plate		
				Vehicle	Plate Type	Plate Color
				Vehicle Type	Vehicle Color	Direction
				Speed		
				Other	Position	Device ID
				Detection Regio	n 🔽 Device Name	Line Break Character
			ltem o	f File Name	spaces	Sorting
				Time	1 1	1⊟ 1⊟
			Lice	nse Plate	1 ~	1⊟ 1⊟
				ate Type	1 -	1⊟ 1⊟
				Speed	1 ~	JΞ 1Ξ JΞ 1Ξ
			Di	rection		= =

# Table 81. Description of the buttons

Parameters	<b>Function Introduction</b>		
Font Size	Small/Medium/Large are available for OSD information.  Note: Snapshot OSD font size and Image OSD font size are corresponded.		
Font Color	Enable to set different colors for OSD information. <b>Note:</b> Snapshot OSD font color and Image OSD font color are corresponded.		
Background Color	Check the checkbox to select background color of snapshot OSD information.		
OSD Position	Check the checkbox to show OSD information position.		

Parameters	Function Introduction				
	Customize the OSD content. You can set OSD Information as shown below:				
	OSD Infomation	All			
		Plate			
		License Plate Plate Type Plate Color			
		Vehicle			
		Vehicle Type Vehicle Color Direction			
		Speed			
		Other			
		Time Position Device ID			
		Detection Region Device Name Line Break Character			
OSD Information	of license plate r	ate is recognized and the alarm is triggered, the snapshot ecognition will show as below:			

[Snapshot File Name]

### Table 82. Description of the buttons

Parameters	Function Introduction						
Separator	"-", "_" and Space are available for File Name Separator format. The default separator is "-".						
	You can customize the snapshot file name according to items chosen.						
	Item of File Name	All					
		Plate					
		✓ License Plate					
Item of File Name		Vehicle					
		Vehicle Type Vehicle Color Direction					
		Speed					
		Other					
		Time Position Device ID					
		Detection Region Device Name					

Each time when an item is checked, the list will add the item row, including the item name and sorting operation. You can click  $\exists$  and  $\exists$  button to sort these items, and choose separator to

connect these items name. Also, the content of Position and Device ID items can be customized. When you check all items, the function interface will show as below:

Item of File Name	All	
	Plate	
	✓ License Plate ✓ Plate Type	Plate Color
	Vehicle	
	Vehicle Type 🛛 🔽 Vehicle Col	or 🔽 Direction
	Speed	
	Other	
	Time Position	
	✓ Detection Region ✓ Device Nar	ne
ltem o	f File Name	Sorting
	Time	1⊟ 1⊟
Lice	nse Plate	J⊟ 1⊟
Pla	ate Type	1⊟ 1⊟
:	Speed	J⊟ 1⊟
D	irection	1⊟ 1⊟
Detec	tion Region	1⊟ 1⊟
Position:	Position	1⊟ 1⊟
Dev	ice Name	J⊟ 1⊟
Device ID:	Device ID	J⊒ 1⊒
Pla	ate Color	J⊒ 1⊒
Veh	icle Type	J⊒ 1⊒
Veh	icle Color	1⊒ 1⊒

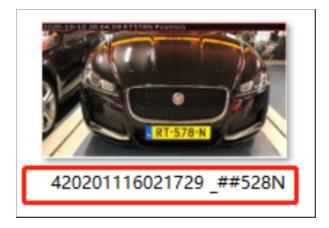
**Note:** You need to check at least one item.

For example, you can choose items, separator and items sorting as below:

Item of File Name	- All		
	Plate		
	License Plate	Plate Type	Plate Color
	Vehicle		
	Vehicle Type	Vehicle Color	Direction
	Speed		
	Other		
	🗸 Time	Position	Device ID
	Detection Regio	n Device Name	
ltem c	of File Name		Sorting
	Time		JΞ 1Ξ
Lice	ense Plate		1⊟ 1⊟

Once license plate is recognized, and the snapshot will be uploaded via FTP or Email or stored on your local LPR Picture File Path. Then, You can see the snapshot file name which you customize as shown below:

Full-snapshot Recognized successfully



Full-snapshot Recognized failed



License plate snapshot Recognized successfully



License plate snapshot Recognized failed



**Note:** 

- If the item checked is not recognized successfully, then the item will be displayed with the specific symbol "#".
- The file name of full-snapshot will be preceded by a number of 4.

#### 8.6.1.3 List Management

Add the license plates to this interface as Black or White type (Black/White List), and then you can set the alarm action for these license plates in the corresponding black list mode or white list

mode interface. When these license plates are detected, the camera will respond accordingly to your settings.

Mile	e <i>sight</i> •Network Ca	amera						🌐 English 🗸 💄 admin 🗸
	🖧 Media	>	General Advanced List Mana	gement List Event				
	Network	>	Plate Type All V	License Plate				Search
$\odot$	🗄 Storage		License Plate		Schedule Rule	Valid Time	Note	
	5 Event	>	RT578N	Plate Type Black List	Schedule Rule	Always	Note	Operation
ø	🔊 PTZ		QS6548	White List	-	Always	-	/ 🗊
	lPR	~						
	Settings Smart Search							
	I System	>						
							Totel 2 30/page ~	< 1 ) Goto 1
			Rules Edit				Add Upload	Export Delete List

# Table 83. Description of the buttons

Parameters	Function Introduction							
		Select the license plate type as black or white, enter the license plate, click the "Add" button, the license plate will be added successfully.						
		Add	×					
	License Plate*	E456E6Y						
	Туре	Black List 🗸						
Add License Plate	Valid Time	Customize 🗸						
	Start Time	2022-03-27 00:00:00						
	End Time	© 2022-03-27 23:59:59						
	Note							
		Save Cancel						

\_

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

Parameters	Function Introduction
Schedule Rules	Click the "Edit" button to customize a rule.
	Add ×
	License Plate* DF53EU7 Type Schedule Mode Schedule Rule Rule 1 Valid Time Always Note Save Cancel

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

8.6.1.4 List Event

Mile	esight Network Came	ra ⊕ English ∽ 💄 admin
	🖧 Media	General Advanced List Management List Event
	Network	List Type Black List White List Visitor
$\odot$	E Storage	
	5 Event	
ø	PTZ	Schedule Settings
<b>a</b>	LPR Settings Smart Search	Alarm Action >
	System	

**Step1:** Select the List Type. Check the check box to enable Black List/White List/Visitor mode.

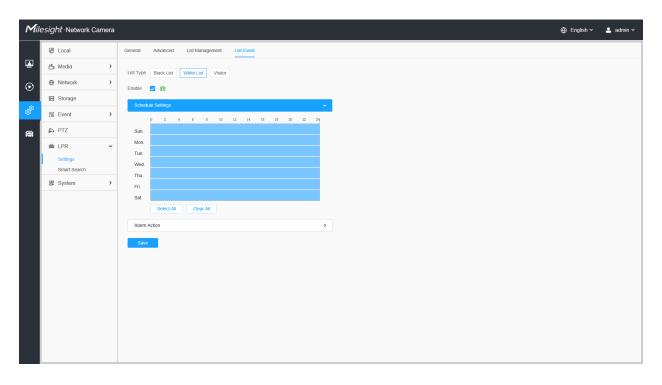
**Step2:** The corresponding alarm icon is triggered when the Black List/White List/Visitor vehicles passing by.

Mile	e <i>sight</i> ∙Network Camera		🕀 English 🗸	💄 admin 🛩
	@ Local	General Advanced List Management List Event		
•	👸 Media 🔸	List Type Black List White List Visitor		
$\odot$	Network			
ô	E Storage	Schedule Settings		
Ø	S Event >			
<b>a</b>	S PTZ	Sun.		
	EPR     Settings     Smart Search     System	Tue.           Wed.           Thu.		
		Alarm Action		

Black List:

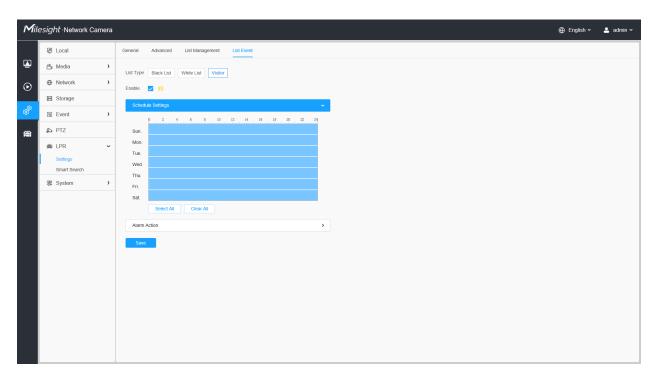
filesight •	Network Camera											⊕ English ∽	admin
Primary St P	Vie bases Bides - Ales aus view it		•				K 69						
				10				Vehicle 0	be: Black List Color: Black Speed: -	Direction: Awa	ay	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6	
No.	License Plate	Snapshot	Plate Type	Plate Color	Vehicle Type	Vehicle Color	Speed		Detection Region	Time	Operation	008 Preset 8	6
14	DOK69	(IDD1K69	Black List	White	Car	Black	-	Away	1	2022-04-21 23:25:42	QB	009 Preset 9 010 Preset 10	10
	BOJV11		Visitor	White	Car	Black	-	Away	1	2022-04-21 23:25:39	QE	010 Preset 10 011 Preset 11	6
13			10-2	1000.00	0	D - 1				0000 01 01 00 07 77	0.0		
12	2BKZ2	2:BKZ-2	Visitor	White	Car	Red	-	Away	2	2022-04-21 23:25:23	QE	012 Preset 12	E
12 11	2BKZ2 MGBB2	21BKZ +2	Visitor	White	Bus	Blue	-	Away	2	2022-04-21 23:25:21	QE		
12 11 10	2BKZ2 MGBB2 DOCG1	218KZ - 2 160:88 23 160:765 17	Visitor Visitor	White	Bus Car	Blue White	-	Away Away	2	2022-04-21 23:25:21 2022-04-21 23:25:19	QE	012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15	
12 11 10 9	2BKZ2 MGBB2 DOCG1 FE301	2210K7-2 0K619823 0K97550 0F5550	Visitor Visitor Visitor	White White White	Bus Car Car	Blue White Black	-	Away Away Away	2 2 2 2	2022-04-21 23:25:21 2022-04-21 23:25:19 2022-04-21 23:25:17		012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15 016 Preset 16	20 E3 E3 E3
12 11 10	2BKZ2 MGBB2 DOCG1 FE301 DOJO:	12:18K7 +2 1763188 23 176075511 1767530 1707:30	Visitor Visitor Visitor Visitor	White White White White	Bus Car Car Car	Blue White Black Gray	-	Away Away Away Away	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2022-04-21 23:25:21 2022-04-21 23:25:19 2022-04-21 23:25:17 2022-04-21 23:25:14		012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15 016 Preset 16 017 Preset 17 018 Preset 18	
12 11 10 9	2BKZ2 MGBB2 DOCG1 FE301	2210K7-2 0K619823 0K97550 0F5550	Visitor Visitor Visitor	White White White	Bus Car Car	Blue White Black	- - - -	Away Away Away	2 2 2 2	2022-04-21 23:25:21 2022-04-21 23:25:19 2022-04-21 23:25:17		012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15 016 Preset 16 017 Preset 17 018 Preset 18	64 64 64 64 64 64 64 64 64

### White List:



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			l i i	2		Recognition F	Result	Plate Typ	White List Plate Cold	or, White Vehicle Type:	Minibus	002 Preset 2 003 Preset 3 004 Preset 4	
				h		Recognition F			White List Color: Red Plate Colo Speed: -	or. White Vehicle Type: Direction: Awa		002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5	
No.	License Plate	Snapshot	Plate Type	Plate Color	Vehicle Type	-		Vehicle C				002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7	
No. 15	License Plate DOH1		Plate Type White List	Plate Color White	Vehicle Type Minibus	DOH1		Vehicle C	color: Red Speed: -	Direction: Awa	ау	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8	
		Snapshot				DOH1	Speed	Vehicle C	Color: Red Speed: -	Direction: Awa	operation	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10	
15	DOH1	(DOIHI	White List	White	Minibus	DOH1 Vehicle Color Red	Speed	Vehicle C Direction Away	Color: Red Speed: -	Direction: Awa Time 2022-04-21 23:25:45	ay Operation Q 📧	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11	
15 14	DOH1 DOK6		White List Black List	White White	Minibus Car	DOH1 Vehicle Color Red Black	Speed	Vehicle C Direction Away Away	Color: Red Speed: -	Direction: Awa Time 2022-04-21 23:25:45 2022-04-21 23:25:42	ay Operation Q R Q R	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 008 Preset 7 008 Preset 9 010 Preset 10 011 Preset 11 012 Preset 13	
15 14 13	DOH1 DOK6 BOJV1	NDOTHI NDOTK NBOTO NZIBKZ NGUBB	White List Black List Visitor	White White White	Minibus Car Car	DOH1 Vehicle Color Red Black Black	Speed	Vehicle C Direction Away Away Away	2 2 1 1	Direction: Awa Time 2022-04-21 23:25:45 2022-04-21 23:25:42 2022-04-21 23:25:39	operation Q® Q® Q® Q®	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 007 Preset 7 008 Preset 8 009 Preset 8 009 Preset 10 011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 14	
15 14 13 12	DOH1 DOK6 BOJV1 2BKZ	1007771 10021KC 10023KC 10023KC 10023KC 10023KC 10023KC	White List Black List Visitor Visitor	White White White White	Minibus Car Car Car	DOH1 Vehicle Color Red Black Black Red	Speed	Vehicle C Direction Away Away Away Away	Detection Region 2 1 1 2 2	Direction: Awa Time 2022-04-21 23 25 45 2022-04-21 23 25 42 2022-04-21 23 25 39 2022-04-21 23 25 23	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 6 007 Preset 7 008 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15	
15 14 13 12 11	DOH1 DOK6 BOJV1 2BKZ MGBB	100,444 100,544 100,544 102,545 102,5455 105,7455 105,7455 115,7453	White List Black List Visitor Visitor Visitor	White White White White White	Minibus Car Car Car Bus	DOH1 Vehicle Color Red Black Black Red Blue	Speed	Vehicle C Direction Away Away Away Away Away	Coor: Red Speed: - Detection Region 2 1 1 2 2 2 2	Direction: Awa Time 2022-04-21 23.25.45 2022-04-21 23.25.39 2022-04-21 23.25.23 2022-04-21 23.25.21	Ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 15 016 Preset 15 016 Preset 17	
15 14 13 12 11	DOH1 DOK6 BOJV1 2BKZ MGBB DOCG	1007771 10021KC 10023KC 10023KC 10023KC 10023KC 10023KC	White List Black List Visitor Visitor Visitor Visitor	White White White White White White	Minibus Car Car Car Bus Car	Vehicle Color Red Black Black Red Blue White	Speed	Vehicle C Direction Away Away Away Away Away Away	Corr Red Speed: - Detection Region 2 1 1 2 2 2 2 2 2 2	Direction: Awa Time 2022-04-21 23:25:45 2022-04-21 23:25:42 2022-04-21 23:25:23 2022-04-21 23:25:21 2022-04-21 23:25:19	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 12 013 Preset 12 014 Preset 14 015 Preset 15 016 Preset 16	

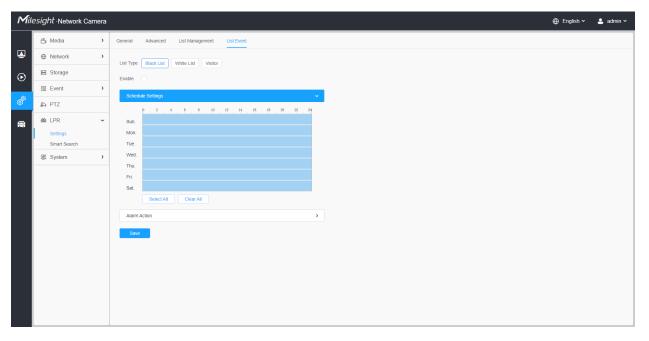
### Visitor:



ry Stream	✓ HTTP ✓	Balanced - LPR	v							Ø	<u>₽</u> ≅	
	<sup>tara</sup> theorem <sub>al part</sub>		al			1	and the second second	L	/	- And		
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				lo					FIES			1
						Recognition Re FE30		ate Type: Visitor shicle Color: Black Speed	Color: White Vehicle Type (		001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5	
Lin	Icense Plate	Snapshot	Plate Type	Plate Color	Vehicle Type	FE30		hicle Color: Black Speed	Color: White t - Direction: Awa		001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7	
Li	Icense Plate FE301		Plate Type Visitor		Vehicle Type Car	FE30	Ve	ehicle Color: Black Speed	Color: White t - Direction: Awa	iy	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6	
		Snapshot		Plate Color		FE30 Vehicle Color	Speed Direction	n Detection Region	Color: White I White Type: Director: Awa Time	operation	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 4 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10	
	FE301	Snapshot	Visitor	Plate Color White	Car	FE30 Vehicle Color Black	Speed Direction	n Detection Region	Color: White t - Director: Awa Time 2022-04-21 23 26 00	ay Operation ♀ ℝ	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 3 005 Preset 5 006 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 10 011 Preset 11	
,	FE301 DOJO3	Snapshot	Visitor Visitor	Plate Color White White	Car Car	FE30 Vehicle Color Black Gray	Speed Direction - Away - Away	n Detection Region	Color. White t - Direction: Awa 2022-04-21 23 25 60 2022-04-21 23 25 57	Ny Operation Q ₪ Q ₪	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 4 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10	
	FE301 DOJO3 WHVOZ	Snapshot a1F0E30 1/001702	Visitor Visitor Visitor	Plate Color White White White	Car Car Car	FE30 Vehicle Color Black Gray Gray	Speed Direction - Away - Away - Away	n Detection Region	Color: White t - Direction: Awa Direction: Awa C222-04-21 03 26 00 2022-04-21 03 26 10 2022-04-21 03 25 51	Operation Q ₪ Q ₪ Q ₪	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 000 Preset 10 011 Preset 11 013 Preset 13 014 Preset 14	
,	FE301 DOJO3 WHVOZ DOH10	Snapshot	Visitor Visitor Visitor White List	Plate Color White White White White	Car Car Car Minibus	FE30 Vehicle Color Black Gray Gray Red	Speed Direction - Away - Away - Away - Away - Away	n Detection Region	Color Winte Venicle Type: t - Direction: Awar Direction: Awar C202-04-21 33 26 30 2022-04-21 33 25 37 2022-04-21 33 25 33 2022-04-21 23 25 45	Operation Q (E) Q (E) Q (E) Q (E)	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 12 013 Preset 13	
,	FE301 DOJO3 WHVOZ DOH10 DOK69:	Snapshot 150555 7001005 (1800507 10007541 1000754	Visitor Visitor Visitor White List Black List	Plate Color White White White White White	Car Car Car Minibus Car	FE30 Vehicle Color Black Gray Gray Red Black	Speed Direction - Away - Away - Away - Away - Away - Away - Away	n Detection Region	Color: White Detection: Awar 2022-04-21 23.2610 2022-04-21 23.25 57 2022-04-21 23.25 53 2022-04-21 23.25 45 2022-04-21 23.25 45 2022-04-21 23.25 45	Ay Operation Q B Q B Q B Q B Q B Q B	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 13 014 Preset 13 014 Preset 13 014 Preset 13 016 Preset 15 016 Preset 15	
	FE301 DOJO3 WHVOZ DOH10 DOK69: BOJV11	Snapshot 1707007 1007007 000707 0007071 1000707	Visitor Visitor Visitor White List Black List Visitor	Plate Color White White White White White White	Car Car Car Minibus Car Car	FE30 Vehicle Color Black Gray Gray Red Black Black	Speed Direction - Away	hite Color: Black Speed Detection Region 2 2 2 1 1	Color: While t - Direction: Awa Color: While t - Direction: Awa Color: While Direction: Awa Direction: Awa Dire	V Operation Q Q Q Q Q Q Q Q Q Q Q Q Q	001 Presel 1 002 Presel 2 003 Presel 3 004 Presel 4 005 Presel 5 006 Presel 6 007 Presel 6 009 Presel 6 009 Presel 9 010 Presel 10 011 Presel 11 012 Presel 12 013 Presel 13 014 Presel 13 014 Presel 13 016 Presel 16	

## [Schedule Settings]

Step3: Schedule Settings.



### Table 84. Description of the buttons

Parameters	Function Introduction
Copy To × =	Copy the schedule area to another date.
Select All	Select all schedule.
Clear All	Clear all schedule.

## [Alarm Action]

Step4: Set Alarm Action.

Mile	e <i>sight</i> ·Network Cam	iera			
	🖧 Media	>	General Advanced List Management List Event		
≞	Network	>	List Type Black List White List Visitor		
$\odot$	E Storage		Enable		
	5 Event	>	Schedule Settings		>
ø	🔊 PTZ		Alarm Action		~
	lPR 📾 LPR	ř	Record	>	
	Settings Smart Search		Snapshot	>	
	System	>	External Output     Play Audio (Please enable the Audio Speaker.)	>	
			Alarm to SIP Phone (Please open the SIP)		
			HTTP Notification	>	
			White LED	>	
			Save		

Table 85. 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.
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.
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 warning the detected objects (Only for PTZ Bullet).

#### 8.6.1.5 Traffic Detection

For Milesight, the Radar AI LPR Network Camera not only supports the embedded LPR algorithm, but also the deep learning algorithm based on the AI platform, which can achieve higher detection accuracy and richer intelligent functions.

Milesight Radar AI LPR camera is a truly all-in-one integrated camera. The radar module is directly integrated in the camera, making installation more convenient.

In this page, you can configure the Traffic Detection of Radar model.

#### **=** Note:

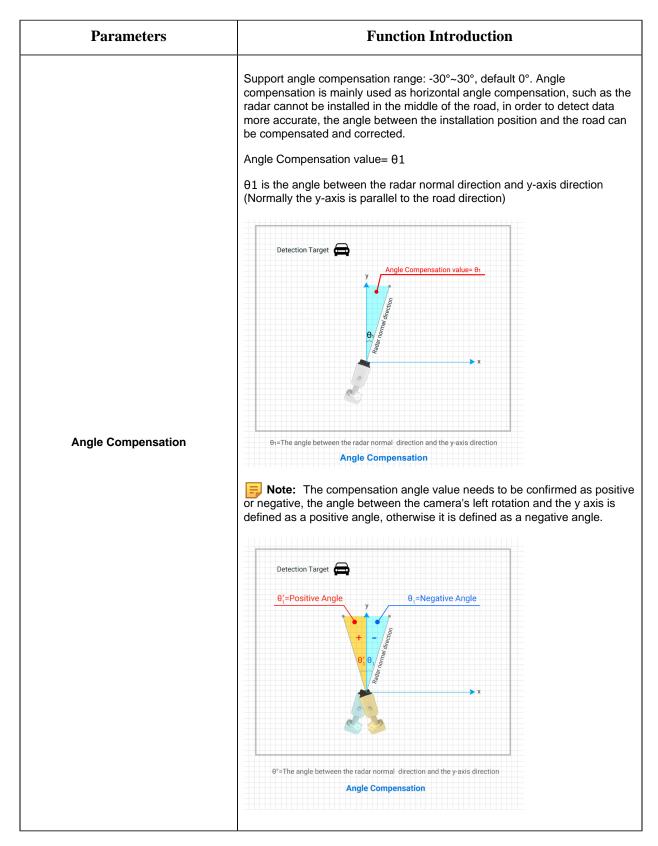
- Make sure your camera model is Milesight Radar AI LPR Cameras.
- For more details, please refer to <u>https://milesight.freshdesk.com/a/solutions/</u> articles/69000797257.

**Step1:** Enable the traffic detection.

Mil	esight Network Came	əra					🕀 English	👻 💄 admin 🗸
	ස් Media	>	General Advanced List Management List Event Traf	ic Detection				
	Network	>	Count: 471 @:Silon/h SSn Amay 4.2*	Enable 🗸				1
$\odot$	E Storage		Pp2(x2,y2) 1 399*425 2 401*418 3 362*42	Sensitivity 4				
	la Event	>	1 J97 429 2 401°418 5 J02 44		5			
ø	📾 LPR	~	Filmen dig Ticos Fierre date 25tos					
R	Settings Smart Search		Alter and Alternation	Angle Compensation*		٠		
	System	>	Climent Connections 2 Note: Please drag P1, P2 and the red line to better measure real distance	Detection Settings		~		
			÷ • 0	Set Detection Regi	on (j)			
			<u> </u>	Coordinate X1	8	m		
				Coordinate Y1	20	m		
			65 - 60 - 55 -	Coordinate X2	-8	m		
			50 - 45 - 40 -	Coordinate Y2	70	m		
			35 30- 25- 20-	Trigger Distance*	35	m		
			20- 15- 10- 5	LPR Detection Reg	jion Calibration (j)			
				Region1-X	-5.4	m		
				Region2-X	0	m		
				Region3-X	5.4	m		
					Save			

## Table 86. Description of the buttons

Parameters	Function Introduction
Installation Height	Please fill in the installation height according to the actual installation height of the camera.
Installation Angle	Please fill in the installation height according to the actual installation angle between the camera's field of view and the horizontal.

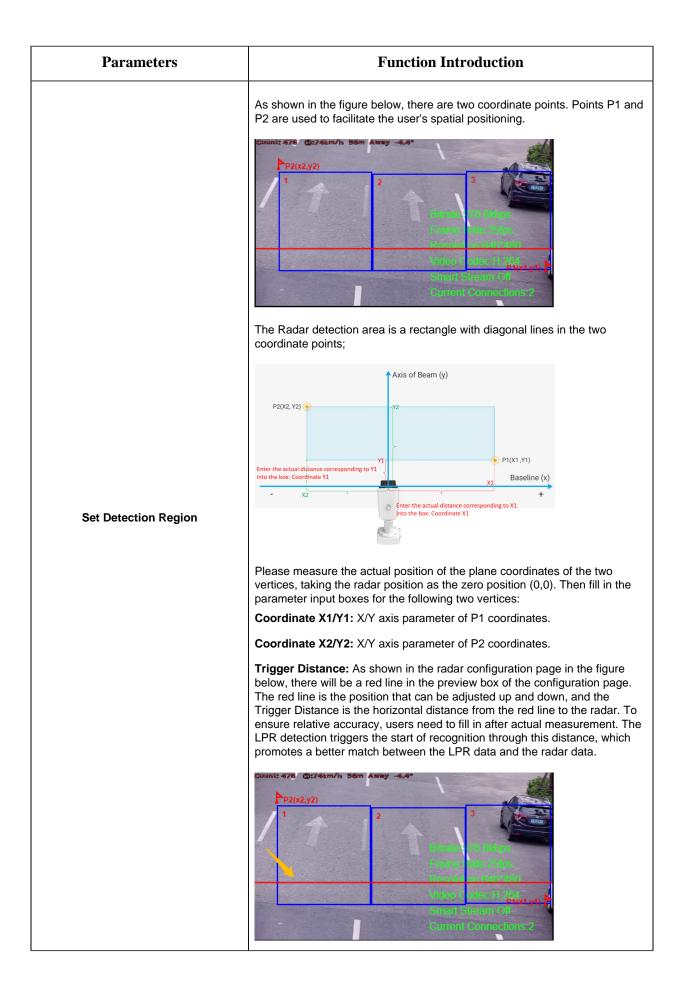


#### [Detection Settings]

**Step2:** Set Detection Region. Configure the radar detection area on the basis of the successful saving of the LPR detection area settings.

Detection Settings		~
Set Detection Region	n (j)	
Coordinate X1		m
Coordinate Y1		m
Coordinate X2		m
Coordinate Y2		m
Trigger Distance*	1	m
LPR Detection Regio	on Calibration (j)	
Region1-X	0	m

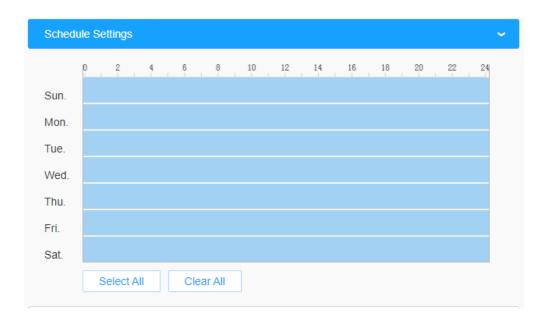
 Table 87. Description of the buttons



Function Introduction
To match LPR data, please configure LPR detection region calibration after radar detection. The calibration of the LPR detection area is mainly to match the space coordinates. The number of this configuration item shows the corresponding number according to the number of the LPR detection area. The data filled in is based on the corresponding trajectory map on the right when the target vehicle enters the area to find the target and fill in the X value shown above. To match LPR data, please configure LPR detection region calibration after radar detection. For example, after you have drawn 3 detection areas, you can find the coordinate information corresponding to the targets in the detection area from the radar coordinates. You only need to fill in this coordinate information;
Count: 470 (D:S0km/h S6m Away -4.1* P2(x2,y2) 2 Diffet 2 Diff
Note: Please drag P1, P2 and the red line to better measure real distance.
(+) (-) (1) 90 85 80 75 70 -
65- 60- 55- 50- 45- 45- 40- 35- 30- 25- 10- 5- 10- 5- 10- 5- 10- 5- 10- 5- 10- 5- 5- 10- 5- 5- 5- 5- 5- 5- 5- 5- 5- 5- 5- 5- 5-

## [Schedule Settings]

**Step4:** Schedule Settings. Set the effective time of traffic detection.



**Note:** This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 110*).

#### [Traffic Information]

**Step5:** Traffic OSD Settings. Customers can choose the information that needs to be displayed in Live Video and the display format, such as color, size, etc.

Traffic Information	✓
Traffic OSD	
Show OSD	- All
	Speed Direction Distance Azimuth
	Vehicle Counting
Font Size	Large
Font Color	
Counting Reset	Reset
Auto Reset	
Day	Everyday
Time	© 00:00:00

#### Table 88. Description of the buttons

Parameters	Function Introduction
Show OSD	Users can choose the information they want to display in Live Video.
Font Size	The font size of the OSD display, the default size is Medium.
Font Color	The font color of the OSD display.
Counting Reset	Click the "Reset" button to manually reset the vehicle count.
Auto Reset	It is used to automatically clear the vehicle count at regular intervals (Just reset the OSD count for Live Video).
Day	The day of Auto Reset.
Time	The time of Auto Reset.

**Step6:** Log Settings. It allows users to search for various types of logs and support the log export function;

Log Settings			
Logs	Search		
Auto Export Logs			
Day	Everyday		~
Time	<b>(</b> ) 00:00:00		
Export Time Range	Export All		<b>~</b>
Export to	FTP	Email	Storage

#### [Alarm Action]

**Step7:** Traffic Alarm Threshold. Used to set traffic alarm thresholds, such as maximum and minimum speed limits, and driving direction limits;

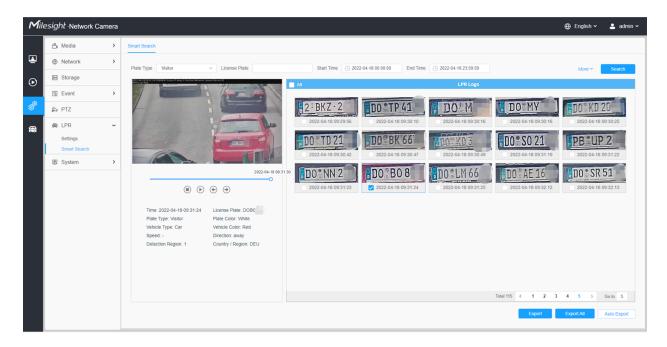
**Step8:** Set the alarm action. The OSD Blink here needs to be turned on after the OSD function. When an alarm is triggered, the OSD information will flash and alarm, and you can also set the duration of the OSD Blink Time, which supports 1~10s.

**Note:** This part is the same as the regular alarm settings. You can refer to <u>Table 3 (*page 114*)</u>.

Alarm Action		~
Traffic Alarm Threshold		
Min. Speed Limit 🔽 9	99	km/h
Max. Speed Limit	00	km/h
Driving Direction	way 🗸	
Alarm Action		
Record		>
Snapshot		>
External Output		>
Play Audio (Please er	nable the Audio Speaker.)	
OSD Blink (Pleace ch	eck the Show OSD)	>

# 8.6.2 Smart Search

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

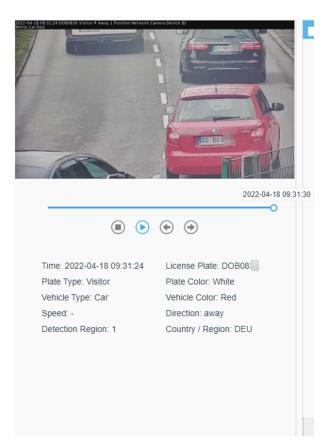


**Step1:** Select Plate Type or directly enter the license plate number and then select Start Time and End Time. The related license plate information will be displayed as below by one click on the "**Search**" button.

**Note:** 

- It supports displaying 4,000 logs.
- Only when there is a SD Card or NAS has been set on the storage management, then the logs can be stored and showed on Smart Search page.
- For Plate Color/Vehicle Color Recognition and Vehicle Type Classification, please make sure your model is MS-Cxxxx-xPC.

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



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

	Export	×
Export File	<ul><li>Plate List</li><li>Video</li><li>Plate List(With pictures)</li></ul>	
Video File Format	MP4 V	
	Save Cancel	

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

Auto Export	×
Enable	
Day Everyday ~	
Time 🕒 00:00:00	
Export Time Range Export All	
Export to FTP Email Storage	
Save Cancel	

# 8.7 IoT (Optional)

Milesight Embedded IoT Module supports LPWAN technology to communicate wordlessly over long distance using lower power consumption.

You can manage end device and set the alarm settings here when using IoT camera.

**Note:** For more details about how to set IoT function, please refer to <u>https://</u>milesight.freshdesk.com/a/solutions/articles/69000797250.

# 8.7.1 Settings

### 8.7.1.1 Radios Settings

Currently our IoT camera supports <u>three IoT frequency bands of **915M** (The corresponding channel plan is *US915/AU915/KR920/AS923/AS923-2*), **868M** (The corresponding channel plan is *IN865/ EU868/RU864*) and **470M** (The corresponding channel plan is *CN470*). Before buying the camera, you need to contact our sales to choose the frequency band that is supported in your country.</u>

For example, here I choose the IoT camera with the frequency bands of 915M or reference document regional parameters for LoRaWAN, and it will show that the current channel plan is US915 on the page.

**Note:** Usually you can directly use the default settings without configuring Radio Settings. If you need to customize some radio settings, you can make further settings as shown below.

Mile	esight Network Came	era		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Radios Settings Profiles Settings Devices Management		
۲	Network	>	Enable IOT		
$\odot$	🗄 Storage		Cloud Mode		
	5 Event	>	Channel Plan US915		
ø	e loT	~	Channel Mask		
	Settings Alarm Settings		Radio Channel Settings		
	System	>	Lora Channel Settings		
			FSK Channel Settings		
			Save		

#### **Table 89. Description of the buttons**

Parameters	Function Introduction
Enable IoT	Enable/Disable the IoT function.
Cloud Mode	Enable/disable Milesight IoT Cloud management.
Channel Plan	Show the corresponding channel plan of your IoT camera.

Parameters	Function Introduction
Channel Mask	Enabled frequencies are controlled using channel mask. Leave it blank means using all the default standard usable channels specified in the LoRaWAN® regional parameters document. A bit in the Channel Mask field set to 1 means that the corresponding channel can be used for uplink transmissions if this channel allows the data rate currently used by the end-device. A bit set to 0 means the corresponding channels should be avoided. This option is optional for CN470, US915 and AU915.

## [Radio Channel Settings]

lile:	s <i>ight</i> ∙Network C	amera								En	🕀 English v
Г	🖆 Media	>	Radios Settings Profile	es Settings Dev	vices Management						
	Network	>	Enable IOT	<b>~</b>							
,	E Storage		Cloud Mode								
	5 Event	>	Channel Plan	US915	~						
	⊠ loT	~	Channel Mask								
	Settings Alarm Settings		Radio Channel Settings	5		~					
	System	>	Center Frequency of F	Radio 0* 904.3					-	-	-
			Center Frequency of F	Radio 1* 905.1							
				Channel	Radio	Frequency/MHZ					
				1	Radio 0 \vee	903.9					
				2	Radio 0 V	904.1					
				3	Radio 0 V	904.3					
				4	Radio 0 V	904.5					
				6	Radio 1 Y	904.9					
				7	Radio 1 V	905.1					
				8	Radio 1 V	905.3					
			Lora Channel Settings			>					
			FSK Channel Settings			>					

## Table 90. Description of the buttons

Parameters	Function Introduction
Center Frequency of Radio 0	Supports transmitting and receiving packet; <b>Note:</b> For details of default value and configuration ranges in different regions, please refer to <b>Milesight Troubleshooting-5G AloT Camera.</b>
Center Frequency of Radio 1	Only supports receiving packet from nodes; <b>Note:</b> For details of default value and configuration ranges in different regions, please refer to <b>Milesight Troubleshooting-5G AloT Camera.</b>

Parameters	Function Introduction				
	re enabled by	/ default. You c	all channels will be listed her an also check the box to ena		
	Channel	Radio	Frequency/MHZ		
	1	Radio 0 \vee	903.9		
	2	Radio 0 🗸	904.1		
Multi-channel list	3	Radio 0 🗸	904.3		
	4	Radio 0 🗸	904.5		
	5	Radio 1 👻	904.7		
	6	Radio 1 💙	904.9		
	7	Radio 1 💉	905.1		

### [Lora Channel Settings]

Mill	esight Network Cam	əra		⊕ English ∽	💄 admin 🗸
	省 Media	>	Radios Settings Profiles Settings Devices Management		
≞	Network	>	Enable IOT		
$\odot$	🗄 Storage		Cloud Mode		
	5 Event	>	Channel Plan US915		
ø	æ loT	~	Channel Mask		
	Settings Alarm Settings		Radio Channel Settings		
	System	>	Lora Channel Settings 🗸		
			Enable 💋		
			Radio Radio 0 V		
			Frequency* 904.6		
			BandWidth 500KHZ V		
			Data Rate SF8 v		
			FSK Channel Settings		
			Save		

## Table 91. Description of the buttons

Parameters	Function Introduction
Enable	Enable/Disable the LoRa Channel.
Radio	Choose Radio 0 or Radio 1 as center frequency.

Parameters	Function Introduction
Frequency	<ul> <li>Enter the frequency of this channel.</li> <li>For example: <ul> <li>The frequency range formula of US915 and AU915: Center frequency ±0.55;</li> <li>The frequency range formula of other regions (except US915 and AU915): Center frequency ±0.4625;</li> </ul> </li> <li>For example, the center frequency is configured with 867.5, then the frequency range corresponding to each channel: 867.5-0.4625~867.5+0.4625.</li> </ul>
Band Width	Enter the bandwidth of this channel. 125KHz, 250KHz and 500KHz are available. The default option is 250KHz; Note: The default option is 500KHz for AU915 and US915.
Data Rate	From SF7 to SF12, the transmission rate decreases and the transmission distance increases. In general, the range of Data Rate is SF7 ~ SF12, the default value would be SF7. Only the default value of the Channel Plan AU915 and US915 is SF8.

# [FSK Channel Settings]

Mile	esight ·Network Came	era 🕀	English 🗸	💄 admin 🗸
	🖧 Media	Radios Settings         Profiles Settings         Devices Management		
۲	Network	Enable IOT		
$\odot$	🗄 Storage	Cloud Mode		
	5 Event	Channel Plan US915		
ø	e loT 🗸	Channel Mask		
	Settings Alarm Settings	Radio Channel Settings		
	🖲 System	> Lora Channel Settings >		
		F33K Channel Skitting:     ~       Enable		
		Save		

 Table 92. Description of the buttons

Parameters	Function Introduction
Enable	Enable/Disable the FSK Channel.
Radio         Choose Radio 0 or Radio 1 as center frequency.	
Frequency	Enter the frequency of this channel.
BandWidth	Enter the bandwidth of this channel. 125KHz, 250KHz and 500KHz are available. The default option is 125KHz.  Note: The default option is 250KHz for AU915 and US915.
Data Rate	Enter the data rate. The Date Rate must be between 500~250000.

**Note:** The configurations here should be the same with those in End Device.

#### 8.7.1.2 Profiles Settings

Usually you can use the default settings without configuring Profiles Settings. If you need to customize some profiles settings, you can click the Profiles Settings button to make further settings and click Apply button, it will list the Device-profiles you created.

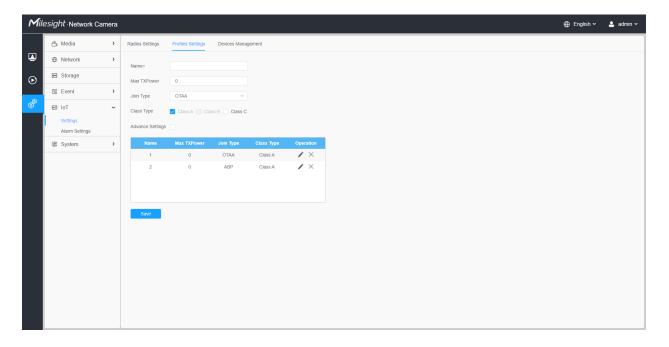


 Table 93. Description of the buttons

Parameters	Function Introduction					
Name	Customize the profile name.					
Max TXPower	Enter the maximum transmit power. The TXPower indicates power levels relative to the Max EIRP level of the end-device. 0 means using the max EIRP. EIRP refers to the Equivalent Isotropically Radiated Power. The Max TXPower must be between 0~16.					
Join Type	• OTAA: Over-the-Air For over-the-air activatior to participating in data ex	nal, the default option is OTAA. Activation. n, end-devices must follow a join procedure prior changes with the network server. An end-device join procedure every time as it has lost the session context				
	• ABP: Activation by Personalization. Under certain circumstances, end-devices can be activated by personalization. Activation by personalization directly ties an end-device to a specific network by passing the join request - join accept procedure.					
Class Type	Device type is Class A by default. Users can check the box of Class B or Class C to add the class type.					
	MAC Version	Choose the version of the LoRaWAN® supported by the end-device. 1.0.0/1.0.1/1.0.2/1.1.0 are optional, the default option is 1.0.2.				
	Regional Parameters Revision	Revision of the Regional Parameters document is supported by the end-device.A and B are optional, the default option is B.				
Advance Settings	RX1 Data Rate Offset	The offset used for calculating the RX1 data-rate is based on the uplink data-rate.				
	RX2 Data Rate	Enter the RX2 datarate which is used for the RX2 receive- window.				
	RX2 Channel Frequency	RX2 channel frequency is used for the RX2 Frequency receive-window.				

Parameters	Function Introduction					
Advance Settings	Frequency List	List of factory-preset frequencies. The range is based on what is specified in the LoRaWAN® regional parameters document.				

# 8.7.1.3 Device Management

Mile	e <i>sight</i> ·Network Can	nera							🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Radios Settings Profiles Settings Devices Management							
	Network	>	Device Name•							
$\odot$	E Storage		Device EUI*							
	la Event	>	Device Profile 1	~						
ø	፼ loT	~	Application Key* 5572	404c696e6b4c6f526132303						
	Settings Alarm Settings		Action Codec In and Device Type Lora	Sensor v						
	System	>	OSD Font Size Media	ium ~						
			OSD Font Color	•						
			Device List							
			Device Name	Device EUI Device	Profile Battery	Last Seen	Activation	Sensor	Operation	
			EM500-SMT-91 24et 5M 24et	124126b228817 2	-	2min. ago	0	Sensor	/ 🗊	
			Save							

#### Table 94. Description of the buttons

Parameters	Function Introduction
Device Name	Customize the device name.
Device EUI	Fill in Device EUI which can be obtained from the device label. You can also get Device EUI from Milesight Tool Box if you use Milesight Lora Sensor.
Device Profile	OTAA and ABP are optional, the default option is OTAA.

Parameters	Function Introduction
Application Key	<ul> <li>Whenever an end-device joins a network via over-the-air activation, the application key is used for derive the Application Session key. It is mainly used to generate corresponding Device Address/Network Session Key/Application Session Key.</li> <li>Note:</li> <li>The default key can be obtained from the end-device.</li> <li>Milesight Sensors' default key is 5572404c696e6b4c6f52613230313823.</li> </ul>
Device Address /Network Session Key /Application Session Key	<ul> <li>Information is needed to access the network. If you choose ABP network access mode, you need to fill in these items. And you can obtain them from End Device. For example, you can get such information from Milesight Tool Box when you use Milesight Lora Sensor.</li> <li>Device Address: The device address identifies the end-device within the current network.</li> <li>Network Session Key: The network session key is specific for the end-device. It is used by the end-device to calculate the MIC or part of the MIC (message integrity code) of all uplink data messages to ensure data integrity.</li> <li>The default key of Milesight Sensor is 5572404c696e6b4c6f52613230313823.</li> <li>Application Session Key: The AppSKey is an application server and the end-device to encrypt and decrypt the payload field of application-specific data messages.</li> <li>The default key of Milesight Sensor is 5572404c696e6b4c6f52613230313823.</li> </ul>
Device Type	Select the device type according to the actual situation. Lora Sensor and Lora Sensor Node are optional. Lora Sensor is a kind of sensor that supports LoraWAN protocol, while Lora Sensor Node is a kind of device which receives data from interfaces of RS485, AI and GPIO.
OSD Font Size	Configure the OSD font color.
OSD Font Color	Configure the OSD font size.

Parameters	Function Introduction
Device List	Step 1: You can enter sensor configuration page by clicking Sensor After the configuration is finished, you can click Save to save your configuration or click Cancel to cancel your configuration.
	Step 2: You can click       Ito modify the configuration in End Device Management.         Step 3: You can click       Ito delete the device you added.         Image: Step 3: You can click       Ito delete the device you added.         Image: Step 3: You can click       Ito delete the device you added.

Parameters	Function Introduction
Parameters         Sensor Settings	Function Introduction         Isensor IDJ Select the Sensor ID that you want to configure. The number of sensor IDs depends on how many kinds of data the sensor has and there is a one-to-one relationship between ID and data.         Isensor Type Configuration. We have several common used sensor types as shown below:         Implicit to the sensor ID that you want to configure. The number of sensor los depends on how many kinds of data the sensor has and there is a one-to-one relationship between ID and data.         Isensor Type Configuration. We have several common used sensor types as shown below:         Implicit to the sensor ID that you want to configure. The number of sensor types as shown below:         Implicit to the sensor Type Configuration. We have several common used sensor types as shown below:         Implicit to the sensor ID that you want to configuration we have several common used sensor types as shown below:         Implicit to the sensor ID that you want to configuration. You can also customize it:         Implicit to the indicates that the value has a plus or minus sign.         Ising The tick indicates that the value has a plus or minus sign.         Indicate Inter Infiguration. For example, when you fill in 1, you are moving the decimal point one to left, and you get a decimal.         Infig Data unit configuration. We have some common units here and users can also customize it.         Ison OSD As the picture shown below, once you enable this function, you can

# 8.7.2 Alarm Settings

Mile	e <i>sight</i> ∙Network Ca	mera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Alarm Settings		
	Network     Network	>	Rules 1 2 3 4		
$\odot$	E Storage		Enable		
	5 Event	>	Thresholds Settings		
Ø	loT	~	Schedule Settings		
	Settings Alarm Settings		Alarm Action		
	System	>	Save		

Step 1: Select the alarm rule that you want to set and you can configure four kinds of rules.

Step 2: Check the check box to enable Alarm Rules.

#### [Thresholds Settings]

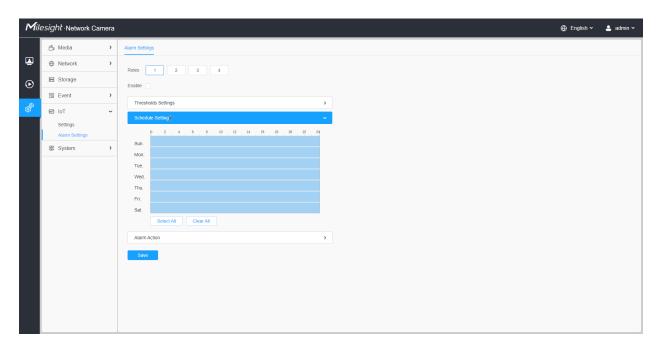
Mile	e <i>sight</i> ∙Network Ca	imera	
	🖧 Media	>	Alarm Settings
۲	Network	>	Rules 1 2 3 4
$\odot$	🗄 Storage		Enable 🗸
	5 Event	>	Thresholds Settings
ø	@ IoT	~	EM500-SMT-915M 1 Temperature Sensor
	Settings Alarm Settings		Max Limit * 10 °C
	🖲 System	>	✓ Min Limit * 0 *C
			Schedule Settings
			Alarm Action
			Save

Step 3: Click to select the sensor to alarm.

**Step 4:** Set threshold for the selected sensor. When the data reaches the critical value, the alarms will be triggered. Both upper and lower thresholds are configurable. You can also only configure upper or lower threshold.

#### [Schedule Settings]

**Step 5:** Set the alarm schedule for IoT.



#### Table 95. Description of the buttons

Parameters	Function Introduction
Copy To × Sun. Mon. Tue. Wed. Thu. Fri. Sat. Save	Copy the schedule area to another date.
Select All	Select all schedule.
Clear All	Clear all schedule.

### [Alarm Action]

Step 6: Set Alarm Action.

Milesight Network Camera ⊕ English ~						💄 ac	
	🗂 Media	>	Alarm Settings				
•	Network	>	Rules 1 2 3 4				
D	E Storage		Enable				
	la Event	>	Thresholds Settings		>		
Ŷ	⊠ IoT	~	Schedule Settings		>		
	Settings Alarm Settings		Alarm Action				
	🐼 System	>	Record	>			
			Snapshot	>			
			External Output	>			
			Play Audio (Please enable the Audio Speaker.)				
			Alarm to SIP Phone (Please open the SIP.)				
			HTTP Notification	>			
			OSD Blink (Pleace check the Show OSD)	>			
			Save				

### **Table 96. 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.
Play Audio	Auto/10 seconds/30 seconds/1 minute/5 minutes/10 minutes are available.
Alarm to SIP Phone	Support to call the SIP phone after enabling the SIP function.  Note: Please open the SIP.

Parameters	Function Introduction
HTTP Notification	Support to pop up the alarm news to specified HTTP URL.
	If the Show OSD in the page of sensor configuration is checked, the OSD will blink when alarm is triggered.
	<b>OSD Blink Time:</b> Support to set the blinking duration of the OSD, 1~10 are Available.
	For example, the alarm action is set to OSD blinking at an interval of 3 seconds, when the data reaches the critical value, the alarms will be triggered and the OSD blinking on the live view interface.
OSD Blink	<image/>

# 8.8 System

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

# 8.8.1 System Setting

Here you can check System information and Date&Time.

#### 8.8.1.1 System info

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

<i>sight</i> ·Network Can	nera			🕀 English 🗸	💄 admin 🗸
🖧 Media	>	System Info Da	te&Time		
Network	>	Device Name	Network Camera		
🖹 Storage					
5 Event	>	Hardware Version	VI.4		
IoT	>	Software Version	45.8.0.1-AloT-a2		
System	ř	MAC Address	1C C3 16 2A 9B 26		
System Setting Security		S/N	CM99V132120000102		
Logs		Device Information	SR100Eg37mN2		
Maintenance		Alarm Input	1		
		Alarm Output	1		
		Uptime	5 hours 1 minutes		
		QR Code	Place scan the OR code on App to get a remote view.		
		Save			
	Network     Storage     Storage     Event     IoT     System Setting     Security	Network     Network     Storage     Sorage     Event     of     of     System Setting     Security     Logs	Network     Network     Storage     Storage     Storage     Storage     Product Model     Tor     Software Version     System     System     System     System     System     System     Software Version     Software	Image: Power Name       Power Name         Image: Power Name       Power Name         System Name       Power Name         System Name       Power Name         System Name       Power Name         Power Name       Power Name         System Name       Power Name         System Name       Power Name         Power Name       Power Name         Power Name       Power Name         Power Name       Power Name         Power Nam	Image       Device Name       Powice Name         Image       Powice Name       Powice Name         System Sectory       Powice Name       Powice Name         System Sectory       Powice Name       Powice Name         System Sectory       Powice Name       Powice Name         Maintenance       Powice Name       Powice Name         Alarm Output       Image       Powice Name         Image       Powice Name       Powice Name         Image </th

### Table 97. 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 (Only for LPR2, LPR3, LPR 4, LPR EU, LPR AP and LPR AM)	Generated by camera's information.
License Status (Only for LPR2, LPR3, LPR 4, LPR EU, LPR AP and LPR AM)	Show present license status, including Valid and Invalid Note: 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.

Parameters	Function Introduction
Alarm Input	The number of Alarm Input interface.  Note: The Alarm Input will appear only when the camera have alarm input/ output interface.
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.

### 8.8.1.2 Date&Time

Mill	fillesight · Network Camera 🕀 English 🗸 🛓 admin 🗸				
	🚔 Media 🔹 🗘	System Info Date&Time			
۲	Network	Current System Time			
$\odot$	😫 Storage	Date 27/03/2022			
	S Event >	Time 15.33.04			
ø	e lot >	Set the System Time			
	@ System ✓	Time Zone (UTC+08:00) China(Beijing, Ho $\vee$			
	System Setting Security	Daylight Saving Time Disabled V			
	Logs	Synchronize Mode ONTP server OManual Synchronize with computer time			
	Maintenance	Time O 2022-03-27 15:33:03			
		Save			
		1			

## Table 98. Description of the buttons

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

Parameters	Function Introduction
	<b>Synchronize Mode:</b> NTP server, Manual and Synchronize with computer time are optional.
	NTP server: Input the address of NTP server.
	NTP Sync: Regularly update your time according to the interval time.
	Manual: Set the system time manually.
	Synchronize with computer time: Synchronize the time with your computer.
Save	Save the configuration.

# 8.8.2 Security

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

### 8.8.2.1 User

Mile	sight Network Ca	amera				
	🗂 Media	>	User On	line User Access Lis	t Security Service	Watermark About
۲	Network	>	Manage Priv	vilege		
$\odot$	E Storage		Allow Anony	mous Viewing		
	Event	>	Security Qu	estion		
ø	₪ IoT	>	Security Que	estion Edit		
	System	~	Account Ma	anagement (j)		
	System Setting Security		ID ACCOUNT MA	User Name	Privilege	Operation
ľ	Logs		1	admin	Administrator	2 1
-	Maintenance		Add			
			Save			

### Table 99. Description of the buttons

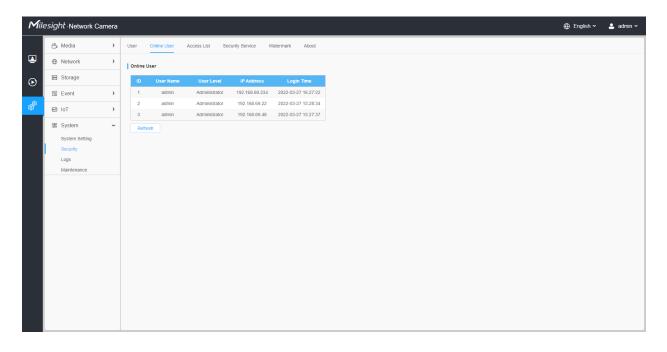
Parameters	Function Introduction
Manage Privilege	Allow anonymous viewing: Check the checkbox to enable visit from whom doesn't have account of the device.

Parameters	Funct	ion Introduction									
	Click "Edit" button to set three security questions for your camera. In case that you forget the password, you can click "Forget Password" button on login page to reset the password by answering three security questions correctly.										
	Security Qu	lestion 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.	elow, 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									

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>					

#### 8.8.2.2 Online User

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



**Table 100. 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.

### 8.8.2.3 Access List

Mile	ຂ <i>sight</i> ∙Network Came	era				
	🖧 Media	>	User Online User	Access List	Security Service	Watermark About
	Network	>	General Settings			
$\odot$	E Storage		Max. Number of Connection	on 10		×
	la Event	>	Access List			
ø	⊟ IoT	>	Enable Access List Filterin	9		
	-	~	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 101. 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.					
	Ø	Edit the selected IP on access list.					
	Ū	Delete the selected IP on access list.					
Save	Save the configuration.						

# 8.8.2.4 Security Service

Mile	e <i>sight</i> ∙Network Ca	mera					🌐 English	👻 💄 admin 🛩
	🖧 Media	>	User Online User	Access List	Security Service	Watermark	rk About	
۲	Network	>	SSH Settings					
$\odot$	E Storage		Enable 🔽					
	5 Event	>	SSH Port 6022					
ø	e loT	>	Save					
	🗷 System	~						
	System Setting Security							
	Logs							
	Maintenance							

### Table 102. Description of the buttons

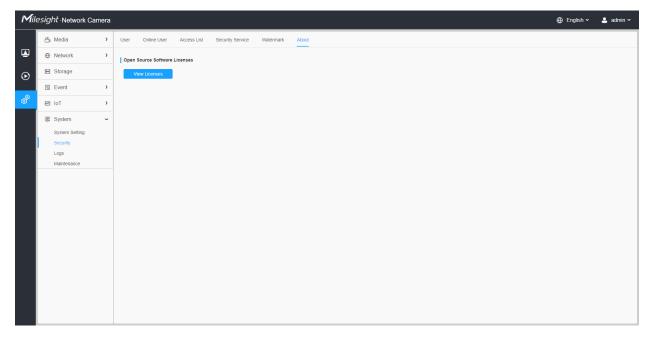
Parameters	Function Introduction
SSH Settings	Secure Shell (SSH) has many functions: it can replace Telnet and also provides a secure channel for FTP, POP, even for PPP.

#### 8.8.2.5 Watermark

Mile	esight ·Network Ca	mera		English ~	💄 admin 🛩
	🖧 Media	>	User Online User Access List Security Service Watermark About		
۲	Network     Network	>	Watermark Settings		
$\odot$	E Storage		Enable		
	5 Event	>	Watermark String IP CAMERA		
ø	e⊡ loT	>	Save		
	System Setting System Setting Security Logs Maintenance	* 			

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

8.8.2.6 About



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

# 8.8.3 Logs

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

🖀 Media	>	Logs						
Network	>	Main Type All Types	Sub Type All Types	V Start Time (b) 2022-	03-27.00-00-00 End Tin	ne 🕒 2022-03-27 23:59:59		Searc
🗄 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.)
國 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

 Table 103. Description of the buttons

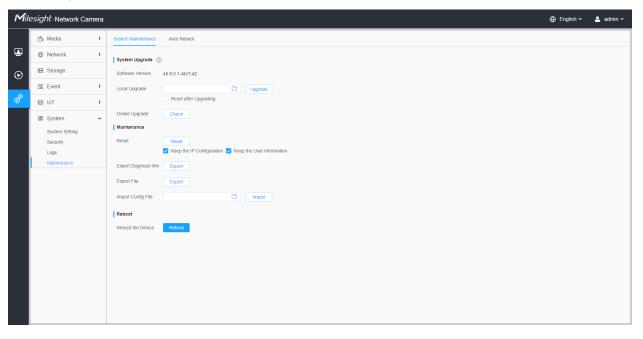
Parameters	Function Introduction		
Main Type	There are five main log types: <b>All Type, Event, Operation, Information, Exception</b> and <b>Smart.</b>		
Sub Type	On the premise that main type has been selected, select the sub type to narrow the range of logs.		
Start Time	The time log starts.		
End Time	The time log ends.		
Search	Search the logs.		

Parameters	<b>Function Introduction</b>	
Export	Export the logs.	
Go to	Input the number of logs' page.	

## 8.8.4 Maintenance

Here you can configure System Maintenance and Auto Reboot.

#### 8.8.4.1 System Maintenance



**Table 104. 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, the click the "Upgrade" button to upgrade. After the system reboots successfully update is done.</li> <li>You can check "Reset after Upgrading" to reset the camera after upgrading</li> <li>Online Upgrade: Click the "Check" button to check the current latest firmwar 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 alree the latest version.</li> </ul>					
System Upgrade	Tips ×					
	Provide the states of the latest version.					
	ок					
	<b>Note:</b> Do not disconnect the power of the device during the update. The device will be restarted to complete the upgrading.					

Parameters	Function Introduction
	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:         File Encryption Configuration         X         Input the encryption password         Confirm
Maintenance	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.          File Encryption Configuration       ×         Input the encryption password       Save         Cancel       Save
	Note:     Export and import the same configuration file. Password must be the same.
Reboot	Click "Reboot" button to restart the device immediately.

#### 8.8.4.2 Auto Reboot

Mil	esight Network Can	nera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	System Maintenance Auto Reboot		
	Network	>	Auto Reboot Settings		
$\odot$	🗄 Storage		Enable		
	5 Event	>	Day Everyday v		
ø	ee loT	>	Time (© 00:00:00		
	System	~	Save		
	System Setting Security				
	Logs				
	Maintenance				
		_			

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

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Web: http://www.milesight.com

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

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