



Intelligent Traffic Camera

User Manual

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Chapter 1. Introduction

Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact your dealer.

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

This Manual explains how to use and manage Milesight Intelligent Traffic cameras. Milesight innovatively combines video surveillance with AI, ANPR, 3D Radar and other cutting-edge technologies to perfectly meet the demands of road traffic management, entrance & exit management and indoor & outdoor management. So the Milesight Intelligent Traffic camera consists of three series, including Entrance & Exit Management, Road Traffic Management, Parking Management. Please read this manual carefully before operation and retain it for future reference.

You can also click on the following hyperlinks to quickly jump to the corresponding series introduction.

- 1. Entrance & Exit Management (page 8)
- 2. Road Traffic Management (page 137)
- 3. Parking Management (page 321)

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 Xiamen Milesight IoT Co., Ltd (Hereinafter referred to as Milesight).

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

1.2 Safety Instruction

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

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

- This installation must be conducted by a qualified service person and should strictly comply with the electrical safety regulations of the local region
- To avoid risk of fire and electric shock, do keep the product away from rain and moisture before installed.
- Do not touch components such as heat sinks, power regulators, and processors, which may be hot
- Source with DC/AC 12V or PoE
- Please make sure the plug is firmly inserted into the power socket
- When the product is installed on a wall or ceiling, the device should be firmly fixed
- If the product does not work properly, please contact your dealer. Never attempt to disassemble the camera by yourself

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

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

1.3 Revision History

Table 1.

Version	Revision Content	Release Date
V1.0	First release	November 2022

Version	Revision Content	Release Date
V1.1	 Add Al Road Traffic Parking Detection Pro Bullet Plus Camera with Parking Management and Parking Violation Management. Add Vehicle Counting function for Road Traffic Management. Add Vehicle Brand Detection. Add Parking Management with LPR for Al Outdoor Parking Management Pro Bullet Plus Camera. Add others. 	November 2023

Chapter 2. Entrance and Exit Management

2.1 Product Description

2.1.1 Product Overview

Milesight Entrance & Exit Management Camera combines video surveillance with AI, ANPR and other cutting-edge technologies to help traffic management systems intelligently monitor and manage traffic behavior at entrances and exits. Based on real-time data, valuable insights are obtained to optimize the traffic flow at the entrance and exit, reduce the risk of accidents, and deal with emergencies more efficiently. It can be widely used in the security gate system, which can significantly improve management efficiency and make traffic more intelligent, safer and smoother.

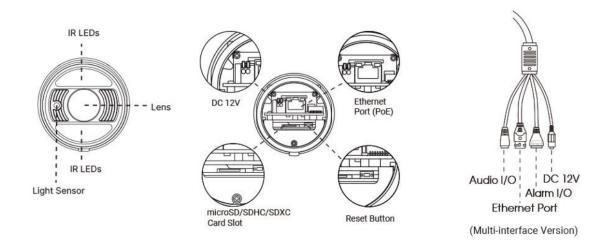
2.1.2 Related Product

Product	Name
	Entrance & Exit AI LPR Bullet Camera
	Entrance & Exit Supplement Light AI LPR Pro Bullet Plus Camera
Musight	Entrance & Exit AI LPR Pro Dome Camera

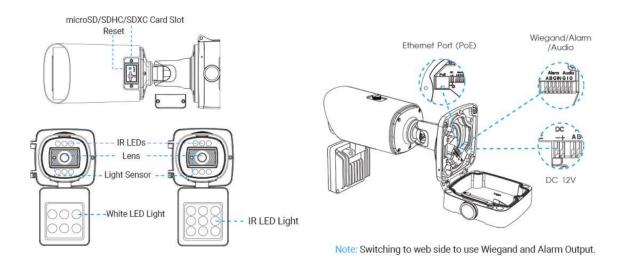
Table 2.

2.1.3 Hardware Overview

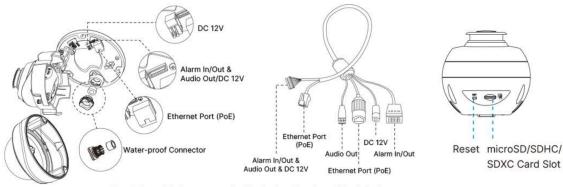
Entrance & Exit AI LPR Bullet Camera



• Entrance & Exit Supplement Light AI LPR Pro Bullet Plus Camera



• Entrance & Exit AI LPR Pro Dome Camera





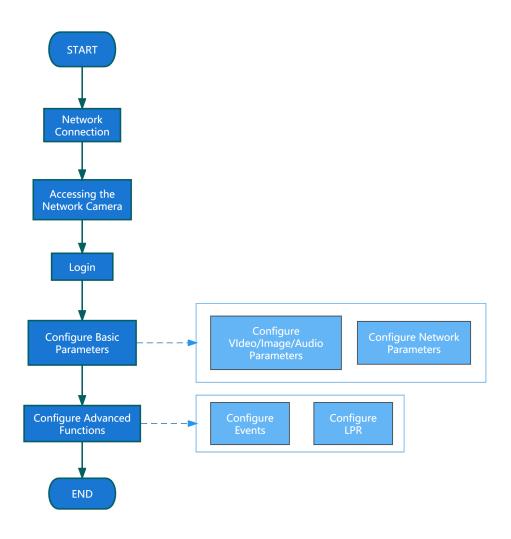
2.1.4 Related Documents

Table 3.

Document Type	Link
	Entrance&Exit Management Camera
Datasheet	https://www.milesight.com/support/download/datasheet
Quick Start Guide	https://www.milesight.com/static/file/en/download/user-manual/ipc/Milesight- Network-Camera-Quick-Start-Guide.pdf

2.2 Configuration Flow

The configuration flow of Entrance&Exit Management Camera is shown in the following figure.



More configuration details are shown in the following table.

Configuration	Description	Reference
Network Connection	Connect the network camera. You can set the camera over the LAN or dynamic IP connection.	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.	Assigning an IP Address (page 13)
Configure Basic Parameters	After login the camera, you can adjust the video/image/audio/network parameters as needed.	<u>Video (page 34)</u> Image (page 37)
Configure Advanced Functions	Configure LPR-related settings and other advanced functions.	<u>General (page 91)</u>

2.3 Network Connection

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.

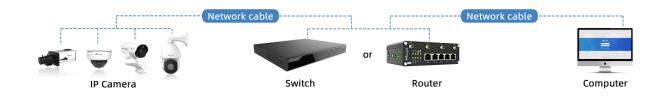
Connect the Camera to the PC Directly

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.



Connect via a Switch or a Router

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



Dynamic IP Connection

Step1: Connect the network camera to a router;

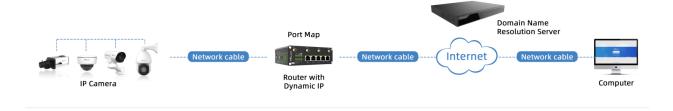
Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;

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.



2.4 Accessing the Network Camera

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

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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Ĭ	N IF	PC Tools		Network							A Password Q Search he	
	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	Θ
С	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	Θ
Π	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
С	12	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266-X4G	2022-03-15 11:	45.8.0.1-AIo	Θ
Π	13	Network Camera	Active	1C:C3:16:24:09:D2	192.168.69.96	80	255.255.240.0	192.168.69.1	MS-C2964-FPB	2022-01-09 17:	40.7.0.79-r7	Θ
C	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
Π	15	Network Camera	Active	1C:C3:16:2A:06:91	192.168.69.98	80	255.255.255.0	192.168.69.1	MS-C5367-X23PC	2022-03-15 09:	45.7.0.79-r30	Θ
	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	Θ
Π	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	Θ
-												
0/37		Device Name: Net	work Came	era IP: 192.168.6	9 .204 Ports	(80	Netmask:	255.255.255.0	Gateway: 19	2.168.69 .1	DNS: 8 .8 .8	.8
									(f) Activate	🛓 Export Devic	e List 🗙 N	
Dpen	ating Ir	formation							9		\smile	
										😐) Sa	ve 🙁 🔿 🤇	

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

Select single camera:

ľ	Ċ	, IP	°C Tools		Network		F	review (G Jpgrade			≰ admin A Password Q Search he		
		No.	Device Name 🔺	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage	
	Г	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	
		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	Ο	
	С	20	Network Camera	Active	1C:C3:16:22:0B:53	192.168.69.135	80	255.255.255.0	192.168.69.1	MS-C2961-QELPB	2022-03-11 19:	43.7.0.79-LP	0	
1		21	Network Camera	Active	1C:C3:16:27:60:43	192.168.69.137	80	255.255.240.0	192.168.69.1	LS2914-ZYNX36	2022-02-11 09:	41.7.44.78-a	0	
1	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	
Ľ	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	Θ	
L		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	
1	n	25	Network Camera	Active	1C:C3:16:29:F5:8D	192.168.69.205	80	255.255.255.0	192.168.69.1	MS-C5365-PB	2022-03-07 14:	43.7.0.80-b	Θ	
1	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	
		27	Network Camera	Active	1C:C3:16:11:58:AD	192.168.69.211	80	255.255.255.0	192.168.69.1	NC9674-PA	2022-03-15 14:	32.8.1.1-a2	0	
	1/38)per		Device Name: Netw	vork Came	ra IP: 192.168.6	9 .204 Port:	80	Netmask:	255.255.255.0		2.168.69 .1	DNS: <mark>8 .8 .8</mark> e List X		
								V2.4.0.4			L) Se	ave 🚫 C	lear	

Select multiple cameras:

9 Network Camera Active 1C:C3:16:21:01:C4 192:168.5.19 80 255:255.255.0 192:168.5.1 MS-C2962 2022-02-08 15 40.70.79-77 0 10 Network Camera Active 1C:C3:16:27:68:94 192:168.20:19 80 255:255.255.0 192:168.20:1 MS-C2962 2022-02-08 15 40.70.79-77 0 11 Network Camera Active 1C:C3:16:27:68:94 192:168.69.0 80 255:255.255.0 192:168.69.1 MS-C2967 2022-03-11 20 41.70.79 0 12 Network Camera Active 1C:C3:16:2A:07:33 192:168.69.0 80 255:255.255.0 192:168.69.1 MS-C2967 2022-03-15 14 457.080-LP 0 2 Network Camera Active 1C:C3:16:2A:07:33 192:168.69.6 80 255:255.240.0 192:168.69.1 MS-C2967 2022-03-03 13: 43.70.79-LP 0 3 Network Camera Active 1C:C3:16:2A:98:26 192:168.69.67 80 255:255:255.0 192:168.69.1 MS-C8266 202:		No.	Device Name 🔻	Statur										
10 Network Camera Active 1CC316:27:6B:94 192.168.20.19 80 255.255.255.0 192.168.20.1 MS-C5373 2022-03-11 20 417.0.79 0 1 Network Camera Active 1CC316:2A0733 192.168.20.19 80 255.255.255.0 192.168.69.1 MS-C2967 2022-03-15 4.7.0.89-LP 0 2 Network Camera Active 1CC316:2A0733 192.168.69.1 80 255.255.240.0 192.168.69.1 MS-C2967 2022-03-15 14 457.0.80-LP 0 3 Network Camera Active 1CC316:2A09826 192.168.69.67 80 255.255.250.0 192.168.69.1 MS-C2964 2022-03-15 11 45.0.1.Alo 0 4 Network Camera Active 1CC316:2409:D2 192.168.69.07 80 255.255.250.0 192.168.69.1 MS-C2964 2022-03-15 11 45.0.1.Alo 0 5 Network Camera Active 1CC316:2409:D2 192.168.69.07 80 255.255.250.0 192.168.69.1 <th>~</th> <th></th> <th></th> <th>518103</th> <th>MAC</th> <th>IP</th> <th>Port</th> <th>Netmask</th> <th>Gateway</th> <th>Model</th> <th>Run-up Time</th> <th>Version</th> <th>Webpage</th> <th></th>	~			518103	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage	
1 Network Camera Active 1C.C316:2A07:33 192.168.69.0 80 255.255.255.0 192.168.69.1 MS-C2967 2022-03.15 14 45.7.0.80-LP 6 2 Network Camera Active 1C.C316:2A07:33 192.168.69.61 80 255.255.255.0 192.168.69.1 MS-C2967 2022-03.15 14 45.7.0.80-LP 6 3 Network Camera Active 1C.C316:2A098.26 192.168.69.67 80 255.255.255.0 192.168.69.1 MS-C2966 2022-03.15 11 45.8.01-Alo 6 4 Network Camera Active 1C.C316:2409:D2 192.168.69.67 80 255.255.255.0 192.168.69.1 MS-C2866 2022-03.15 11 45.8.01-Alo 6 5 Network Camera Active 1C.C316:2409:D2 192.168.69.67 80 255.255.255.0 192.168.69.1 MS-C2864 2022-03.15 11 45.8.01-Alo 6 5 Network Camera Active 1C.C316:2409:AD 192.168.69.97 80 255.255.255.0 192.168.69.1 MS-C2367 2022-03.14 18 41.7.0.76-r3 6 6 Network Camera Active 1C.C316:2A06:69		9	Network Camera	Active	1C:C3:16:21:01:C4	192.168.5.191	80	255.255.255.0	192.168.5.1	MS-C2962	2022-02-08 15:	40.7.0.79-r7	0	
2 Network Camera Active 1CC3:16:20:10:43 192:168.69.1 80 255.255.240.0 192:168.69.1 MS-C2963 2022-03-03 13 43.70.79-LP 6 3 Network Camera Active 1CC3:16:20:10:43 192:168.69.67 80 255.255.255.0 192:168.69.1 MS-C2963 2022-03-15 11 45.80.1-Alo 6 4 Network Camera Active 1CC3:16:2409:D2 192:168.69.67 80 255.255.255.0 192:168.69.1 MS-C2964 2022-03-15 11 45.80.1-Alo 6 5 Network Camera Active 1CC3:16:2409:D2 192:168.69.97 80 255.255.255.0 192:168.69.1 MS-C2964 2022-03-14 18 41.70.76-73 6 6 Network Camera Active 1CC3:16:2406:91 192:168.69.91 80 255.255.255.0 192:168.69.1 MS-C3967 2022-03-15 09 45.70.79-r30 6 6 Network Camera Active 1CC3:16:2406:96 192:168.69.18 80 255.255.255.0 192:168.69.11 MS-C3967 45.70	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	0	
3 Network Camera Active 1C:C3:16:2A98:26 192:168.69.7 80 255:255.255.0 192:168.69.1 MS-C8266 2022-03:15 11: 45.8.01.Alo 6 4 Network Camera Active 1C:C3:16:2A98:26 192:168.69.96 80 255:255:255.0 192:168.69.1 MS-C8266+ 2022-03:15 11: 45.8.01.Alo 6 5 Network Camera Active 1C:C3:16:2A098:26 192:168.69.7 80 255:255:255.0 192:168.69.1 MS-C2964+ 2022-01-09 17: 40.70.79-77 6 5 Network Camera Active 1C:C3:16:2A605A9 192:168.69.97 80 255:255:255.0 192:168.69.1 MS-C5375 2022-03:14 18: 41.70.76-73 6 6 Network Camera Active 1C:C3:16:2A06591 192:168.69.18 80 255:255:255.0 192:168.69.1 MS-C5375 2022-03:15 09: 45.70.79-70 6 7 Network Camera Active 1C:C3:16:2A06669 192:168.69.116 80 255:255.255.0 192:168.69.1 VMI-2MPX 2022-03:11 21: 45.71.79 6		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	
4 Network Camera Active ICC/316:2409:D2 192.168.69.96 80 255.255.240.0 192.168.69.1 MS-C2964 2022-01-09 17 40.70.79-77 6 5 Network Camera Active ICC/316:24609:AA 192.168.69.97 80 255.255.255.0 192.168.69.1 MS-C2964 2022-03-14 18 41.70.76-r3 6 6 Network Camera Active ICC/316:240694 192.168.69.98 80 255.255.255.0 192.168.69.1 MS-C5375 2022-03-15 09 45.70.79-r30 6 7 Network Camera Active ICC/316:2406691 192.168.69.16 80 255.255.255.0 192.168.69.1 VMI-2MPX 2022-03-11 01 45.70.79-r30 6 7 Network Camera Active ICC/316:2406669 192.168.69.116 80 255.255.255.0 192.168.69.1 VMI-2MPX 2022-03-11 21 45.71.79 6		.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	
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 41.7.0.76-r3 6 6 Network Camera Active 1C:C3:16:2A:06:91 192:168.69.98 80 255:255.255.0 192:168.69.1 MS-C5377 2022:03:15 90: 45.7.0.79-r30 6 7 Network Camera Active 1C:C3:16:2A:06:69 192:168.69.11 80 255:255.255.0 192:168.69.1 VMI-2MPX 2022-03:11 21: 45.7.1.79 6	-	.3	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266	2022-03-15 11:	45.8.0.1-AIo	0	С
 Ketwork Camera Active 1C:C3:16:2A:06:91 192.168.69.98 80 255.255.255.0 192.168.69.1 MS-C5367 2022-03-15 09 45.7.0.79-r30 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 		.4	Network Camera	Active	1C:C3:16:24:09:D2	192.168.69.96	80	255.255.240.0	192.168.69.1				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	-													_
	-					192.168.69.98	80		192.168.69.1			45.7.0.79-r30	-	
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 40.70.79-r7		. .											-	
	0	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	1
7/38 Same IP Start IP: 192.168.69.96 Port: 80 Netmask: 255.255.240.0 Gateway: 192.168.69.1 DNS: 8.8.8.8			📄 Same IP	Start IP: (192.168.69 .96	Porte 80		letmask: 255.255	5.240.0				.8 .8	
										(f) Activat	e 📥 Export I	Device List	Modify	
Operating Information	pera	ating Ir	formation											

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:

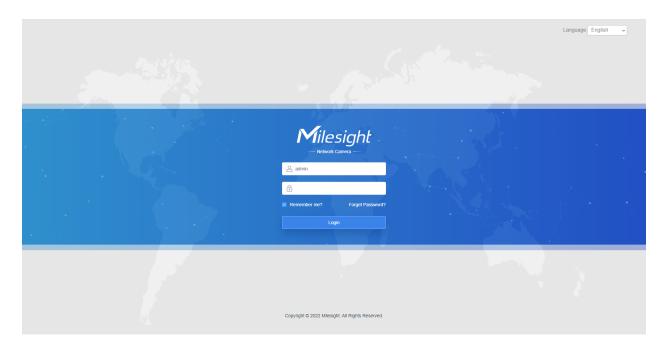
- Password must be 8 to 32 characters long, contain at least one number and one letter.
- You need to upgrade Smart Tools version to V2.4.0.1 or above to activate the camera.

	IPC Tools	Network	— 🛞 — Setting		– G Upgrade			¢ — □ nin sword rch here	
) IPC Tools	No. Device Name S S9 Network Camera In S9 Network Camera In	Status MAC ICC3:16:24:09:D2 Activation		Port Netmask 80 255.255.255.0	Gateway 192.168.5.1 100 168.7.1 × 168.5.1 168.7.1	Model MS-C2964-FPB MS-C3762-FIPB MS-C472-FIPB MS-C2975-PB	Run-up Time 2018-12-19 17:48:04 2018-12-21 17:43:15 2018-12-24 15:00:51 2018-12-24 17:02:43 2018-12-18	Version 40.7.0.65-pwd- a6 41.7.0.65-pwd- a6 41.7.0.68-a6 40.7.0.68 41.7.0.68	0000
NVR Tools	3 User Name: admin Password: Confirm: Set the Security Question Security Question 1: What's yo Security Answer 1:	ur father's name?			168.7.1 168.2.1 168.5.1 168.7.1 168.7.1 168.7.2 168.7.1	MS-C5362-EPB MS-C2862-FPB MS-C2963-PB MS-C2972-FPB MS-C5372-FIPB MS-C3772-FIPB MS-C4482-PB	2018-12-18 16:10:37 2018-12-21 16:44:30 2018-12-18 13:38:35 2018-12-20 13:27:14 2018-12-18 22:18:58 2018-12-20 16:15:03 2018-12-20 16:15:03 2019-07_04	41.7.0.65-pwd- a6 41.7.0.68-a6 40.7.0.67-r21 40.7.0.67-r10 41.7.0.67-ptz- dome-a6 41.7.0.65-r4 41.7.0.65-pwd- a6	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Calculators	Security Answer 2:	ur father's name? ur father's name?		•	255.0			us 8.8.8.8	y
Calculators	l			(4) V2.4.0.1-a8	ave		E) Sa	ve 🚫 Clear	

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

0			(× —	— (Ø—	- 6		🛓 adr	🏘 —	
	⊾ ™ IPC	C Tools						Upgrade			345678 arch here	0
•	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
С	58	Network Camera	Active	1C:C3:16:90:81:5E	192.168.7.92	80	255.255.240.0	192.168.7.1	NC9674-PB	2019-09-24 17:36:18	43.7.1.72	E
	59	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-09-23 14:06:52	41.7.0.72-a5	e
	60	Network Camera	Active	1C:C3:16:21:00:22	192.168.7.104	80	255.255.240.0	192.168.7.1	MS-C2962-FIPB	2019-09-02 03:22:14	40.7.0.69-r11	6
	61	Network Camera	Active	1C:C3:16:24:09:	192.168.7.114	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-09-30 08:55:39	40.7.0.72	6
	62	Network Camera	Active	1C:C3:16:23:01:39	192.168.7.124	80	255.255.240.0	192.168.9.2	MS-C2962-FPB	2019-09-26 08:28:26	41.7.0.71-r35	6
r	63	IPCAM	Active	1C:C3:16:21:FA:67	192.168.7.132	80	255.255.255.0	192.168.5.1	MS-C3772-FIPB	2019-09-27 11:25:49	41.7.0.71-r15	C
	64	Network Camera	Active	1C:C3:16:24:66:A1	192.168.7.161	80	255.255.240.0	192.168.5.1	MS-C2962-FPB	2019-09-26	40.7.0.71-r8	e
n	65	Network Camera	Active	1C:C3:16:22:19:6F	192.168.7.201	80	255.255.240.0	192.168.7.1	MS-C9674-PB	2019-09-17 11:20:43	43.7.0.72-fsh- autotrack-a2	e
	66	Network Camera	Active	1C:C3:16:22:01:0B	192.168.7.202	4200	255.255.240.0	192.168.7.2	MS-C9674-PB	2019-07-31 23:53:33	42.7.0.67-r1	6
r	67	202大会议室1	Active	1C:C3:16:21:01:10	192.168.7.212	80	255.255.240.0	192.168.7.1	MS-C2972-FPB	2019-09-25 14:19:04	40.7.0.71-r15	e
<u> </u>	60	2001本本約完2	Activo	10-02-18-01-20-	100 160 7 014	00	255 255 240 0	100 160 7 1	NS C2072 PD	2019-09-26	40 7 0 71 -15	6
1/386		evice Name: etwor	k Camor	a IP: 192,168.7	.114) Port 8		Netmask: 25	255 240.0	Gateway: 192.1	68.7.1 DN	IS: 8.8.8.8	-
		evice Hame. Curron	Coamen	102.100.1		5	116111251. 25	0.200.240.0				14.
perati								<u>.</u>) Activate 📥	Export Device Lis	at 🗶 Mod	
1	2019	-09-30 09:10:53			[1C:C3:16:24:09:D2	2] Modi	fy IP:192.168.7.11	3->192.168.7.1	14 successfully.			
										😐) Save	e 🗙 Clear	
										0	9	

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.



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

Assign An IP Address via Browser

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

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

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

Internet Protocol Version 4 (TCP/IPv4)	Properties ? X						
General							
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.							
Obtain an IP address automatical	у						
O Use the following IP address:							
IP address:	192.168.1.10						
Subnet mask:	255 . 255 . 255 . 0						
Default gateway:	192.168.1.1						
Obtain DNS server address autom	natically						
Ouse the following DNS server add	resses:						
Preferred DNS server:	192.168.1.1						
Alternate DNS server:	· · ·						
Validate settings upon exit	Advanced						
	OK Cancel						

b. Click "Advanced", and then click "IP settings"--> "IP address"--> "Add". In the pop-up window, enter an IP address that in the same segment with Milesight network camera (e.g. 192.168.5.61, but please note that this IP address shall not conflict with the IP address on the existing network);

Advanced TCP/IP Sett	tings	3
IP Settings DNS	WINS	_
IP addresses		
IP address	Subnet mask	
192.168.1.10	255.255.255.0	
	Add Edit Remove	
Default gateways	:	
Gateway	Metric	
192.168.1.1	Automatic	
	Add Edit Remove	
Automatic metric:	ric	
	OK Cancel	
TCP/IP Address	? 🗾 🗙	
IP address:	192.168.5.61	
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" --> "Network" --> "Basic" --> "TCP/IP". The Network Settings page appears (Shown as below Figure);

Mile	sight Network Cam	era		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	TCP/IP HTTP RTSP UP/IP DDNS Email FTP		
 ■ ● ●	🖧 Media		IPr4 Type Static DHCP IP Address 112 168 69 Test IP4 Asthert Mask 255 255 0 I IP44 Default Gateway 152 168 69 1 Preferred DNS Server 0 0 8 8 IPv6 Mode Manuat IPv6 Address		
			MTU 1500 1200-1500 Bytes		

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

Step6: The change of default IP address is completed.

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.

Note:

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

Accessing from Milesight Back-end Software

Accessing from Milesight NVR (Network Video Recorder)

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

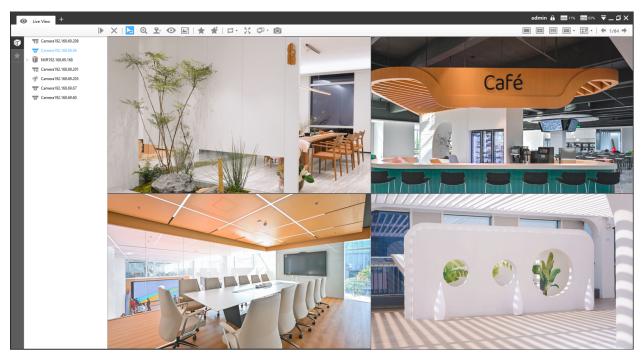
For detailed information about how to use the Milesight NVR Series, please refer to *Milesight NVR User Manual*.



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 https://www.milesight.com/.

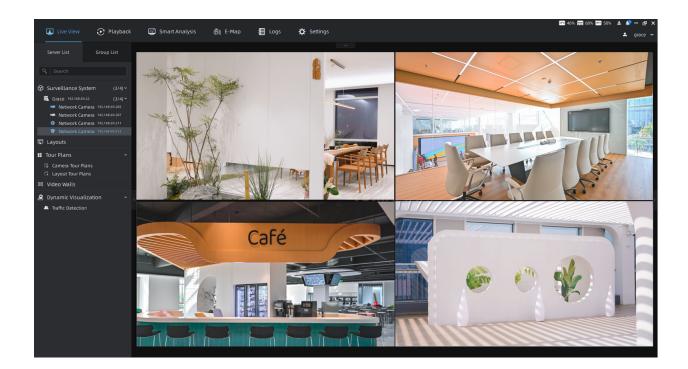
Please install Milesight CMS; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to *Milesight CMS User Manual*.



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.*



2.5 Live View

Live Video

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

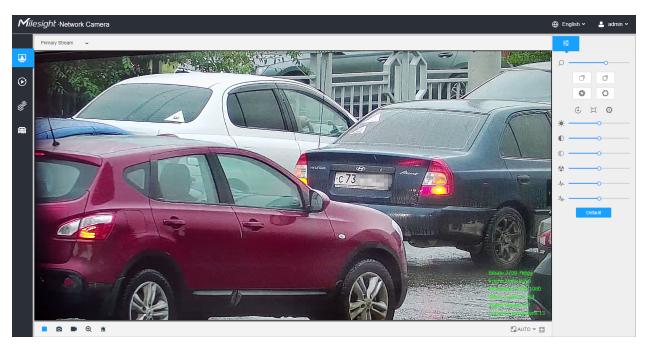


Table 5. Description of the buttons

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	a	Click to access the LPR Mode.
5	⊕ English ∽	Click to select system language.
6	💄 admin 🗸	Display the user name and click to logout.
7	Primary Stream 🖌 🗸	Choose the stream (Primary/Secondary/Tertiary) to show on the current video window.

No.	Parameter	Description
8	Recording	When recording, the icon appears.
9	😽 Alarm	When an alarm of Motion Detection was triggered, the icon appears.
10	ம் Alarm	Except for the kinds of alarms above, when other alarms were triggered, the icon appears.
11	Stop/Play	Stop/Play live view.
12	Snapshot	Click to capture the current image and save to the configured path. The default path is: C:VMS\+-1\ IMAGE-MANUAL.
13	Start/Stop Recording	Click to Start Recording video and save to the configured path. The default path is C:VMS\+-1\MS_Record. Click again to Stop Recording .
14	Q Digital Zoom	When enabled, you can zoom in a specific area of video image with your mouse wheel.
15	Manual Output	Manually trigger Camera Alarm Output.
16	₩indow Size	Click to display images at a window size.
17	Full Screen	Click to display images at full-screen.

No.	Parameter	Description
0		Zoom: Adjust the Zoom length of the lens. Note: Only work when your camera is equipped with motorized lens.
ž		Focus-/Focus+: Adjust focus of the lens. Note: Only work when your camera is equipped with motorized lens.
	<u>ه</u>	Focus Speed: To adjust the speed of focus. Image: Note: Only work when your camera is equipped with auto focus lens. Zoom-/Zoom+: Click to zoom in and zoom out.
Q		 Note: Only work when your camera is equipped with auto focus lens. Focus-/Focus+: Click to focus near or far of the lens. Note: Only work when your camera is equipped with auto focus lens.
	J 🗘	 Lens Initialization, Auxiliary Focus and Auto Iris. Note: The Auto Iris is turned on by default when your camera is equipped with auto focus lens. The Auto Iris support turn on/off when your camera is equipped with P-Iris.
		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".
βţ		 Sharpness: Adjust the Sharpness of image. Higher Sharpness sharps the pixel boundary and makes the image looks "more clear". 2D DNR/3D DNR: Adjust the noise reduction level. Default: Restore brightness, contrast and saturation to default settings.

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.

	work Camera										🌐 English 🗸	💄 admin
Primary St	ream 🖌 LPR	↓ HTTF	° ✔ Least Delay	÷								<u>è</u> 🕫
					Bitrate: 430 Blogs Frame Rate: 6019 Resolution: 1920 Video Codec; H21	64	Recognition Result	Plate Type:		Plate Color: Yellow	Vehicle Type: SUV	N°
-					Frame Rate: 60fp Resolution: 1920	64	Recognition Result	Plate Type: Vehicle Colo		Plate Color: Yellow Speed: -	Vehicle Type: SUV Direction: Away	No -
No.	License Plate	Snapshot	Plate Type	Plate Color	Frame Rate: 60fp Resolution: 1920 Video Codec: H2t Smart Stream: Of	64					Direction: Away	Operati
No. 241	License Plate KD	Snapshot	Piate Type Visitor	Plate Color Yellow	Frame Rate: 601 Resolution: 1920 Video Codec: H2t Smart Stream: Of Connections: 1	64 ff	KD	Vehicle Cold	or: Gray	Speed: -	Direction: Away	Operati
					Frame Rath, 600 Resolution: 1920 Video Codec: H21 Smart Stream: Of Connections: 1 Vehicle Type	64 # Vehicle Color	KD Vehicle Brand	Vehicle Colo Speed	Direction	Speed: • Detection Region	Direction: Away	Operat
241					Frame Rate 601 Resolution: 1920 Video Codec: H20 Smart Stream: Of Connections: 1 Vehicle Type SUV	64 # Vehicle Color	KD Vehicle Brand	Vehicle Colo Speed	Direction	Speed: • Detection Region	Direction: Away	Operat
241					Frame Rate 601 Resolution: 1920 Video Codec: H20 Smart Stream: Of Connections: 1 Vehicle Type SUV	64 # Vehicle Color	KD Vehicle Brand	Vehicle Colo Speed	Direction	Speed: • Detection Region	Direction: Away	Operat
241					Frame Rate 601 Resolution: 1920 Video Codec: H20 Smart Stream: Of Connections: 1 Vehicle Type SUV	64 # Vehicle Color	KD Vehicle Brand	Vehicle Colo Speed	Direction	Speed: • Detection Region	Direction: Away	Operat
241					Frame Rate 601 Resolution: 1920 Video Codec: H20 Smart Stream: Of Connections: 1 Vehicle Type SUV	64 # Vehicle Color	KD Vehicle Brand	Vehicle Colo Speed	Direction	Speed: • Detection Region	Direction: Away	Operat
241					Frame Rate 601 Resolution: 1920 Video Codec: H20 Smart Stream: Of Connections: 1 Vehicle Type SUV	64 # Vehicle Color	KD Vehicle Brand	Vehicle Colo Speed	Direction	Speed: • Detection Region	Direction: Away	Operat

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.
- Vehicles without license plates will be detected and captured by the cameras in realtime, and the recognition results will be recorded as "No Plates".

<i>lilesight</i> ·Network	< Camera							🕀 Engl	ish 🗸 🛛 💄 admin Ϛ
Secondary Strea	am 🖌 LPR	~							
Region 1				V a					
			- B		E C		_	OF	
				E					
			- 1	111					
		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		6 V -					
	1	K . hr				And a second sec		CA CA	
				Bitrate:463.7kbps					
			-	Frame Rate: 19fps Resolution 640*480					
				Frame Rate: 19fps	Recognition Result No Plates			tate Color: - Vehic peed: - Direct	le Type: Truck Jon: -
No.	Event Type	License Plate		Frame Rate: 19fps Resolution 640*480 Video Codec: H.264 Smart Stream: Off					
No. 11	Event Type Regular			Frame Rate: 19 <u>fps</u> Resolution 640*480 Video Codec: H.264 Smart Stream. Off Current Connections: 6	No Plates	Veh	icle Color: White S	peed: - Direct	ion: -
		License Plate		Frame Rate: 19jps Resolution 640*480 Video Codec:H 264 Smart Stream.Off Current Connections 6 Plate Type	No Plates	Veh Direction	icle Color: White S Detection Region	peed: - Direct	ion: - Operation
	Regular	License Plate No Plates		Frame Rate:19 <u>lps</u> Resolution:640°480 Video Codec:H 264 Smart Stream: Off Current Connections 6 Plate Type No Plates	No Plates	Veh Direction -	icle Color: White S Detection Region	peed: • Direct Time 2023-11-27 09:48:29:395	ion: - Operation Q 🗟
	Regular	License Plate No Plates		Frame Rate 19/ps Resolution 64/0480 Video Codec H. 264 Smart Stream. Off Current Connections 6 Plate Type No Plates	No Plates	Veh Direction -	icle Color: White S Detection Region	peed: • Direct Time 2023-11-27 09:48:29:395	ion: - Operation Q 🗟
	Regular	License Plate No Plates		France Rate:10(ps Amendmont 640-1400 Video Codec 12 64 Shiatt Stream Off Current Connections:6 Plate Type No Plates	No Plates	Veh Direction -	icle Color: White S Detection Region	peed: • Direct Time 2023-11-27 09:48:29:395	ion: - Operation Q 🗟
	Regular	License Plate No Plates		France Rate:10(ps Amendmont 640-1400 Video Codec 12 64 Shiatt Stream Off Current Connections:6 Plate Type No Plates	No Plates	Veh Direction -	icle Color: White S Detection Region	peed: • Direct Time 2023-11-27 09:48:29:395	ion: - Operation Q 🗔
	Regular	License Plate No Plates		France Role: 190ys Benediation: 1909-1909 Sinter: Stream: Off Current Connections: 6 Plate: Type No Plates	No Plates	Veh Direction -	icle Color: White S Detection Region	peed: • Direct Time 2023-11-27 09:48:29:395	ion: - Operation Q 🗷

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	ලි 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.
7	Primary Stream 🖌	Choose the Stream (Primary/Secondary/Tertiary) to show on the current video window.

	Parameter	Description
8	Hide Detection Region 🗸	Choose the options (Hide Detection Region/LPR) to hide/ show detection region on the current video window.
9	Stop/Play	Stop/Play live view.
10	fb Alarm	When the Black List license plates passing by, the icon appears.
11	a larm	When the White List license plates passing by, the icon appears.
12	E Alarm	When the Visitor license plates passing by, the icon appears.
13	Ø Alarm	When an alarm of illegal parking event was triggered, the icon appears.
14	S napshot	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 Start Recording video and save to the configured path. Click again to stop recording. The default path is C:VMS\+-1\MS_Record. Click again to Stop Recording .
16	€ 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	Kauto ✓ Window Size	Click to display images at a window size.

	Parameter	Description
19	Full Screen	Click to display images at full-screen.
Operation	Q	Click to view selected license plate with a large picture.
Operation	E	Click to add the selected license plate to White/Black List.

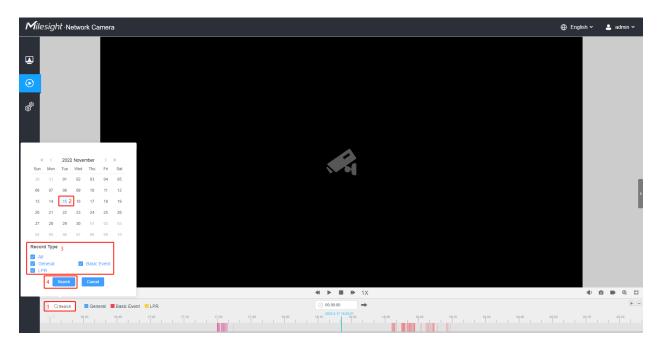
2.5 Playback

Playback

Click of 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.

For the playback point in the sine and click → to locate the playback point in the filed. You can also click + com out/in the progress bar.

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.





No.	Parameter	Description
Q Search	Image: Selection of the selection	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: General Basic Event LPR
1	Speed Down/Speed Up/Speed	Adjust the speed of video playback. Speed Down: Includes 0.5X and 0.25X for Play. Speed Up: Includes 2X and 4X for Play. Speed: The default playback speed is 1X
2	► / II Play/Pause	Play/Pause the video.

No.	Parameter	Description	
3		Stop the video.	
	Stop		
4	Search Time	Select the time that want to locate.	
5	Jump	Go To.	
	Jump		

Table 8. Description of the buttons

No.	Parameter	Description
1	بڑ » Mute	Click to enable the audio.
2	© Snapshot	Click to take a snapshot.
3	Start/Stop recording	Click to start/stop recording.
4	Q Digital Zoom	Click to zoom on/off .
5	Full Screen	Full Screen.
6	Time Expand/Narrow	Time narrow/expand.

2.6 Settings

2.6.1 Media

Video

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

Primary Stream Settings

esight Network Camera				🕀 English
📸 Media 🗸 🗸	Primary Stream Sec	condary Stream Tertian	y 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 ~	4096 ~	kbps
	Smart Stream	Off ~	Off ~	
	Bit Rate Control	CBR ~	CBR 🗸	
	Profile	Main ~	Main 🗸	
	I-frame Interval	50	50	frame(1-120)
		Save		

Secondary Stream Settings

Mill	esight ·Network Car	nera				🕀 English 🗸	💄 admin 🗸
	සී Media	~	Primary Stream	Secondary Stream	Terfary Stream		
	Video Image		Enable				
\odot	Audio		Video Codec	H.264	v		
	Network	>	Frame Size	640*480	v		
ø	Storage		Maximum Frame Rate	e 25	∽ fps		
	5 Event	>	Bit Rate	512	✓ Köps		
	System	>	Smart Stream	Off	×		
			Bit Rate Control	CBR	v		
			Profile	Main	v		
			I-frame Interval	50	frame(1-120)		
				Save			

Tertiary Stream Settings

Mile	e <i>sight</i> ∙Network C	amera				🕀 English 🗸	💄 admin 🗸
	📇 Media	~	Primary Stream Se	condary Stream Tertiar	/ Stream		
	Video Image		Enable				
\odot	Audio	>	Video Codec	H.264 ~			
ø	E Storage		Frame Size	640*480 ~			
			Maximum Frame Rate	25 ×	fps		
	S Event	>	Bit Rate	1024 ~	kbps		
	System	>	Smart Stream	off ~			
			Bit Rate Control	CBR ~			
			Profile	Main ~			
			I-frame Interval	50	frame(1-120)		
				Save			

 Table 9. Description of the buttons

Parameters	Function Introduction
Record Stream Type	General & Event are available only for Primary Stream. General refers to continuous record video, while Event includes events that can trigger alarms, such as Motion, Exception, LPR and so on. This item can separately set different bit rate and frame rate for different Recording Stream Types. If user chooses Event, video will be recorded according to the configuration of video stream type when an event happens, thereby greatly reducing the recording storage space.
Enable Event Stream	This item is optional only if you selected the Event.
Video Codec	H.265/H.264/MJPEG are available.
Frame Size	Options include 8M(3840×2160), 6M(3072×2048), 5M(2592*1944), 5M(2560*1920), 5M(2560*1440), 4M(2592*1520), 3M(2304*1296), 3M(2048*1536), 1080P(1920*1080), 2M(1600 *1200), 1.3M(1280*960), 720P(1280*720), D1(704*576). For Secondary Stream , it includes 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176. For Tertiary Stream , it include 1920*1080, 1280*720, 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176. Note: The options of Frame Size are variable according to the model.
Maximum Frame Rate	Maximum refresh frame rate of per second and it is variable according to the mode.
Bit Rate	Transmitting bits of data per second, this item is optional only if you select the H.265/ H.264 Set the bitrate to 16~16384 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	CBR: Constant Bitrate. The rate of CBR output is constant. 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.

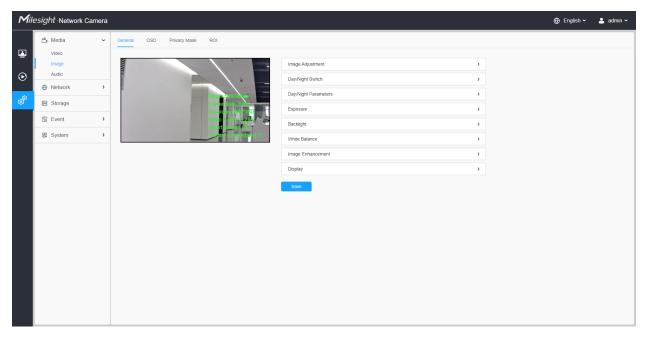
Parameters	Function Introduction
Profile	The option is for H.264, Main/High/Base can be selected as needed.
I-frame Interval	Set the I-frame interval to 1~120, 50 for the default. This item is optional only if you select the H.265/H.264. The number must be a multiple of the number of frames.

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.

<u>General</u>

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



[Image Adjustment]

	Camera				🌐 English 🖌 💄 admin 🗸
Milesight-Network C	Ceneral OS	D Privacy Mask ROI	Image Adjustment Brightness Contrast Saturation Sharpness 2D DNR 3D DNR Default	50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	⊕ English ∨ 🌲 admin ∨
		Day/Night Switch Day/Night Parameters Exposure Backlight White Balance))))))		
			Image Enhancement)) Save	

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	Click this button to restore to the default setting.

[White LED Light]

This option is used to control the White LED Light of the Supplement Light model. There are 4 options including Auto, Always On, Off and Customize are available.

Note:

- Make sure the camera model is a Supplement Light model with the White LED Light.
- White LED Light and IR Light can not be turned on at the same time.

Table 11. Description of the options

Paran	neters	Function Introduction					
	Auto	Select this option to automatically control the White LED Light based on the image. You can customize the sensitivity and delay time. White LED Light ✓ Light Control • Auto • Always on • Off • Customize Sensitivity 3 • • • Delay Time 5 s(1~60) • •					
Light Control		Note: White LED Light and IR Light can not be turned on at the same time!					
Light Control		 Sensitivity: This option is to adjust the sensitivity of the White LED Light, level 1~5 are available, and the default level is 3. The higher the sensitivity, the easier it is to switch the White LED Light status according to image light changes. For example, when the sensitivity is set to level 5, it will turn on the White LED Light when the light in the environment is not very dark. Delay Time: This option is to avoid the White LED Light status changes due to sudden light changes in the environment. The longer the delay time, the longer the response time for the White LED Light to turn on and off. 1~60s are available, and the default option is 5s. For example, here I set the delay time to 5 seconds, if the image suddenly brightens due to a passing car with its headlights on, the white LED light will not be turned off immediately. 					
	Always On	Select this option to keep the White LED Light always on.					
	Off	Select this option to keep the White LED Light always off.					

Paran	neters	Function Introduction							
		Select this option to customize the Start Time and End Time of the White LED Light.							
		White LED Light ~							
		Light Control	Auto Always on Off Customize						
	Customize	Start Time	18:00						
		End Time	© 06:00						
		Brightness	100O						
		Note: White LED Light and IR Light can not be turned on at the same time!							
Brightness		Users can customize level, the brighter the	e the brightness, levels 1-100 are available, the higher the e White LED Light.						

[Day/Night Switch]

This option is used to control the Day/Night mode. And we applied **Smart IR II Technology** on the camera. It combines the High Beam and Low Beam, upgrading the IR LEDs technology 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.

Mile	<i>sight</i> ·Network Came	ra				🕀 English 🗸	💄 admin 🗸
	👸 Media Video	Ý	General OSD Privacy Mask ROI				
•	Image Audio			Image Adjustment Day/Night Switch	<u>،</u>		
¢ [®]	Network Storage	>	Bitrat and an	Day/Night Switch			
	Event	>	Resolution (All Print) Video Personal and All Print)	Mode Start Time of Night	Night Day Auto Customize		
	📾 LPR	>		End Time of Night	© 06.00		
	ष्ट्र System	>		Day/Night Switch Refocus Smart IR Mode	On		
				Mode	Auto O Customize		
				Near View IR Level	50O Reset		
				Supplement IR Level	30 Reset		
				IR Strength Value Day/Night Parameters	Near:100 Far:0 Supplement:0 O		
				Exposure	,		
				Backlight	5		

There are 4 modes for Day/Night Switch, including Night, Day, Auto and Customize.

Table 12. Description of the options

Paran	neters	Function Introduction					
	Night	Switch to Night Mode according to the parameters of night mode. Note: There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with the mode.					
	Day	Switch to Day Mode according to the parameters of day mode. Note: There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with the mode.					
Day/Night Switch	Auto	 Select this option to automatically switch the Day/Night Mode based on the image. Day to Night Value: You can set the sensitivity for switching Day Mode to Night Mode. When IR Light Sensor Current Value is lower than this value, it will switch Day Mode to Night Mode. You can click Reset to reset the value to 36. Night to Day Value: This is the sensitivity for switching Night Mode to Day Mode. When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode. You can click Reset to reset the value to 36. Night to Day Value: This is the sensitivity for switching Night Mode to Day Mode. When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode. You can click Reset to reset the value to 82. IR Light Sensor Value: The current value of the IR light sensor. 					
	Customize	 Select this option to customize the Start Time and End Time of Night. Start Time of Night: You can set the time to start the Night Mode. End Time of Night: You can set the time to start the Day Mode. 					
	Day/Night Switch Refocus	With this option enabled, the camera will refocus when switching between day mode and night mode.					

There are 2 modes for Smart IR Mode to achieve the best effect, including Auto and Customize.

Table 13. Description of the buttons

Paramo	eters	Function Introduction						
	Auto	Select this option to automatically adjust the strength of the Low-Beams LED, High-Beams LED and IR LED Supplement Light on the basis of the Zoom ratio. Image: Smart IR Mode Image: Smart IR Mode Mode Image: Auto Customize IR Strength Value Near: 20 Far: 70 Supplement: 70 Image: Note: In Auto Mode, the strength of the IR Supplement Light will be the same as that of the High-Beams LED. For the IR LRD Supplement Light function, make sure the camera model is a Supplement Light model with the IR LED Light.						
Smart IR Mode	Customize	Select this option to manually adjust the strength of the Low-Beams LED, High-Beams LED and IR LED Supplement Light. You can see the effect of these LEDs in the image in real-time as you adjust the strength, and you can also click Reset to reset the light strength. • 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. • Supplement IR Level: Adjust the strength of IR Supplement Light from 0 to 100. • Supplement IR Level: Adjust the strength of IR Supplement Light from 0 to 100. • IR Strength Value: Show the current value of Low-Beams LED, High-Beams LED and IR LED Supplement Light value. I Smart IR Mode Auto • Customize Near View IR Level 70 • Reset Far View IR Level 70 • Reset I Supplement IR Level 100 • Reset I Strength Value Near: 70 • Supplement 100 • I Strength Value Near: 70 • Supplement 100 • I R LED Supplement Light: https://youtu.be/YVTVR88V0Rg • White LED Supplement Light: https://youtu.be/Wn18oEzY5yk						

[Day/Night Parameters]

Mile	esight Network Car	nera										⊕ English ∽	💄 admin 🗸
Mile ©	 Sight - Network Car Media Video Image Audio Network Storage Event System 	nera ~ >	[OSD	Privacy Mask	ROI	Image Adjustment Day/Night Switch Day/Night Parameters Exposure Level Minimum Shutter Maximum Shutter Limit Gain Level IR-CUT Latency IR-CUT IR LED Color Mode	 ★ Day 5 1/25 1/10000 100 5s On Off Color Reset 	 Night 5 1/25 1/100000 100 6s Orr On BrW Reset 	> > > > > > >	> > ~	English ~	≗ admin ~
							Advanced Schedule Mode						
							Exposure				>		
							Backlight White Balance				>		
								Save			,		

Table 14. 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									
Parameters	Here you can customize your special demands for different time, then the Day mode and Night mode will switch automatically according to your settings.									
Advanced Schedule Mode	Template4 Template5 Save Cancet									

[Exposure]

Mil	e <i>sight</i> ·Network Cam	era				🕀 English 🗸	💄 admin 🗸
 ✓iii ● ● 	esight -Network Cam ☆ Media Video Image Audio ④ Network ঊ Storage ঊ Event ঊ System	era ~	Ceneral OSD Privacy Mask ROI	Image Adjustment DayNight Switch DayNight Parameters Exposure Mode Auto Manual Schedule Backlight White Balance Image Enhancement Display	> > > > > > > > > > > > >	⊕ English ~	🔔 admin 🗸
			Save				

Table 15. Description of the buttons

Parameters	Function Introduction				
	 Auto Mode, Manual Mode and Schedule Mode are available. Auto Mode: The camera will adjust the brightness according to the light environment automatically. Manual Mode: The camera will adjust the brightness according to the value you set, you can set the exposure time from 1~1/100000s, the higher the value is, the brighter the image is. Schedule Mode: You can customize the schedule to enable/disable Auto Mode and Manual Mode. 				
Exposure Mode	Edit × 0 2 4 6 8 10 12 14 16 18 20 22 24 Sun.				

[Backlight]

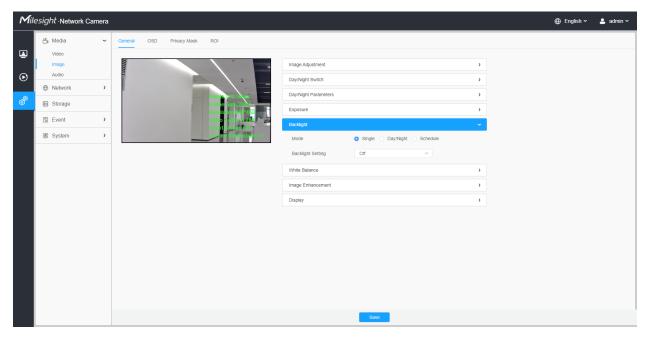


Table 16. Description of the buttons

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

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]

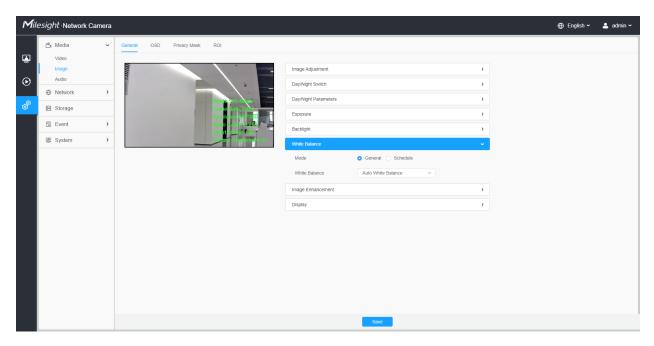
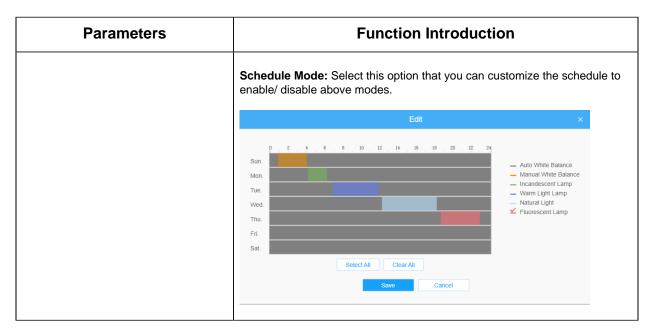


Table 17. Description of the buttons

To restore white objects, removed color distortion caused by the light of the environment. Mode: General and Schedule are available. General Mode: Select a white balance mode as required • Auto White Balance:This option will automatically enable the White Balance function.	Parameters	Function Introduction
 White Balance Manual White Balance: Set Red Gain Level and Blue Gain Level manually. Incandescent Lamp: Select this option when light is similar with incandescent lamp. Warm Light Lamp: Select this option when light is similar with warm light lamp. Natural Light: Select this option when there is no other light but natural light. Fluorescent Lamp: Select this option when light is similar with Fluorescent Lamp. 		 environment. Mode: General and Schedule are available. General Mode: Select a white balance mode as required Auto White Balance: This option will automatically enable the White Balance function. Manual White Balance: Set Red Gain Level and Blue Gain Level manually. Incandescent Lamp: Select this option when light is similar with incandescent lamp. Warm Light Lamp: Select this option when light is similar with warm light lamp. Natural Light: Select this option when there is no other light but natural light. Fluorescent Lamp: Select this option when light is similar with



[Image Enhancement]

Mile	esight ·Network Ca	amera									🕀 English 🗸	💄 admin 🗸
	🖧 Media	ř	General	OSD	Privacy Mask	ROI						
	Video Image		111110				Image Adjustment			>		
\odot	Audio	>				*	Day/Night Switch			>		
ø	Network	,	1	Bitrates at an	Day/Night Parameters			>				
0	E Storage		France Lentry of Resolution 2417420	Exposure			>					
	5 Event	>				Video Strues II. 264	Backlight			>		
	🗟 System	>				Current Contections 17	White Balance			>		
							Image Enhancement			~		
							IR Balance Mode	Off	~			
								Off				
							Reduce Motion Blur		~			
							Defog Mode	Off	~			
							Digital Image Stabilisation	Off	~			
							Display			>		
								Save				
								Carlor -				

Table 18. Description of the buttons

Parameters	Function Introduction			
	There is an option to turn On/Off the IR LED.			
IR Balance Mode	IR Balance Mode would avoid the problem of overexposure and darkness, and the IR LED will change according to the actual illumination.			

Parameters	Function Introduction			
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: <u>https://www.youtube.com/watch?v=-vynrami51s</u>			
Defog Mode	 Better image effect in foggy weather. Note: For more details about Milesight Defog, you can click to the YouTube: https://www.youtube.com/watch?v=a9od7Trao4U 			
Digital Image Stabilisation	Ilisation Decrease the blur and shakiness of the image.			

[Display]

Mile	esight ·Network C	amera									🕀 English 🗸	💄 admin 🗸		
	🖧 Media	v	General	OSD	Privacy Mask	ROI								
۲	Video		11			-								
\odot	Audio		linne				Image Adjustment			>				
	Network	>					Day/Night Switch							
ø	E Storage					Bitrate 230.40 ps. France Role 250	Day/Night Parameters			>				
	5 Event	>				Resolution 640 480 Video Cruise 4.284	Backlight >							
	System	>				Smart Stocky Cit Current Connected s: 17								
							Image Enhancement			>				
				Display			,							
							Power Line Frequency	50Hz	~					
									Outdoor/Indoor Mode	Outdoor	~			
							Corridor Mode	Off	~					
							Image Rotation	Off	~					
							Keep Correct Aspect Ratio	Off	~					
								Save						

Table 19. Description of the buttons

Parameters	Function Introduction
Power Line Frequency	60Hz and 50Hz are available.
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs.

Parameters	Function Introduction
Corridor Mode	There are three options available, you can select one to meet your need. Off: Keep the image in normal direction. Clockwise 90°: Rotate the image by 90° clockwise. Anticlockwise90°: Rotate the image by 90° anticlockwise.
Image Rotation	 There are four options available, you can select one to meet your need. Off: Keep the image in normal direction. Rotating 180°: Upside down the image. Flip Horizontal: Flip the image horizontally. Flip vertical: Flip the image vertically.
Keep Correct Aspect Ratio	With this option enabled, the camera will prevent the image from distortion when resolution ratio is changed.
Zoom Limit	Set the Zoom Limit. Note: Only for the PTZ Network Camera with optical zoom of 20X or above.
White LED Level	Set the White LED Level to 1~100.
Smoked Dome Cover	This function is only for Pro Dome. If Pro Dome is equipped with a Smoked Dome Cover, enable this function to display a normal image. Image: Image: Note: Only for Pro Dome.

<u>OSD</u>

Mile	sight Network (Camera						🕀 English 🗸	💄 admin 🗸
	🗂 Media	ř	General O	SD Privacy Mask	ROI				
	Video Image		Network Cam	era	19/04/2022 18:58:11	Video Stream	Primary Stream V		
\odot	Audio				- +	Regular			
â	Network	>	-		Bitra 12 4-108 Naves	Font Size	Medium		
Ø	E Storage				Frame Rate 200	Font Color			
	5 Event	>		Resolution (1990) Video choles (1990) Small Subjection			S		
	System	>		-	Current Connecticutes.20				
						Video Title			
						Show Video Title			
							Network Camera		
						Text Position	Top-Left v		
						Zoom Status	5 s 🗸		
						Timestamp			
						Show Timestamp			
						Date Position	Top-Right V		
						Date Format	DD/MM/YYYY ×		
						🖻 Copy to Other S	Streams 2		
						Save			

Table 20. Description of the buttons

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

Parameters	Function Introduction
Date Position	Date display position on the image.
Date Format	The format of date.
Copy to Other Streams	Copy the settings to other streams.

Privacy Mask

Privacy mask enables to cover certain areas on the live video to prevent certain spots in the surveillance area from being viewed and recorded.

You can 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.

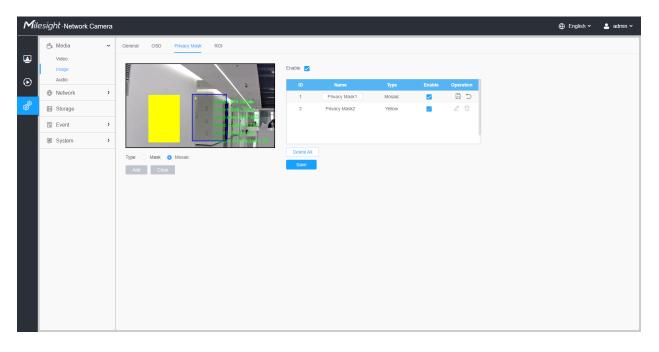


Table 21.	Descrip	otion of	the	buttons
-----------	---------	----------	-----	---------

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 drew on the live video.			
	🗆 , 🔽	Enable/disable the selected ROI areas.		
Operation	Ĺ	Change the color of Mask area, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and Purple		
	Ī	Delete the privacy mask area		

<u>R0I</u>

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

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

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

Mile	e <i>sight</i> ∙Network C	amera									⊕ English ∽	💄 admin 🗸		
	🗂 Media	~	General OSD	Privacy Mask	ROI									
	Video Image		Network Camera		19/04/2022 19:04:07	Enable	<u>~</u>							
\odot	Audio		IIII					Video Stream		im	~			
<u></u>	Hetwork	>	•		ID		Name	Enable	Delete					
ø	E Storage				1		R0I1		Û					
	Event	>			Delete All									
	System	>		-	Current Dominications 18	Save								

Table 22. 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	Choose the Video Stream.		
ROI	🗆 , 🗹	Enable/disable the selected ROI areas.		
ROI	Ē	Delete the selected ROI areas.		
Delete All	Clear all areas you drew before.			

B Note:

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

Audio

<u>Audio</u>

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.

Mil	lesight ·Network	Camera					🕀 English 🗸	💄 admin 🛩
	省 Media	~	Audio A	Audio File Management				
∎ ⊙ 8	Metudia Video Image Audo O Network Storage Event System	>		Ubb rie Maragement	Enable Audio Mode Audio Input Denoise Encoding Sample Rate Input Gain	Both Audio Input & Output v G.711-ULaw v BKHz v 50		
					Audio Output Auto Gain Control Output Volume Sawe	500		

Table 23. Description of the buttons

Parameters	Function Introduction
Enable	Check on the checkbox to enable audio feature.
Audio Mode	Audio Input/Audio Output/Both Audio Input & Output are optional.
Audio Input	 Denoise: 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 Audio Bit Rate: The function is available only for AAC LC, and supports up to 48kbps. Sample Rate: 8KHz, 16KHz, 32KHz, 44.1KHz, and 48KHz are available. Input Gain: Input audio gain level, 0-100. Alarm Level: Alarm will be triggered if voice alarm is enabled and input gained volume is higher than the alarm level, 1-100.
Audio Output	Auto Gain Control: This function is only for H.265 series, improve the quality of audio Output Volume: Adjust volume of output

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.

ilesight ·Network Camera	
🖆 Media 🗸 🗸	Audio File Management
Video Image Audio	Audo File Storage Type Flash
Network	Audio File () SD
🗄 Storage	ID Audio File Name Delete
S Event >	No Data
en IoT >	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.

2.6.2 Network

2.6.2.1 Basic

TCP/IP

Mile	sight Network Ca	mera				🕀 English 🗸	💄 admin 🗸
	🖆 Media	>	тсрир нттр	RTSP UPnP DDNS Email FT	P		
	Network Basic Advanced Storage	~	IP Address	Static DHCP 192 . 168 . 69 . 66 Test			
	5 Event	>	IPv4 Subnet Mask	255 . 255 . 255 . 0			
	图 System	>		192 . 168 . 69 . 1 8 . 8 . 8 . 8			
			IPv6				
			IPv6 Mode	Manual			
			IPv6 Address				
			IPv6 Prefix				
			IPv6 Default Gateway				
			мти				
			MTU	1500 1200-1500	Bytes		
				Save			

Table 24.	Description	of the	buttons
-----------	-------------	--------	---------

Т

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Parameters	Function Introduction
	Type: Static Type and DHCP Type are optional for user to get IPv4 address automatically or use fixed IP address.
	IPv4 Address: An address that used to identify a network camera on the network.
ID-4	Bote: The Test button is used to test if the IP is conflicting.
IPv4	IPv4 Subnet Mask: It is used to identify the subnet where the network camera is located.
	IPv4 Default Gateway: The default router address.
	Preferred DNS Server: The DNS Server translates the domain name to IP address.
	IPv6 Mode: Choose different modes for IPv6: Manual/Route Advertisement/ DHCPv6
IPv6	IPv6 Address: IPv6 Address used to identify a network camera on the network
	IPv6 Prefix: Define the prefix length of IPv6 address
	IPv6 Default Gateway: The default router IPv6 address
мти	Maximum Transmission Unit. The default value is 1500. You can customize the value from 1200 to 1500 as needed.
Save	Save the configuration.

<u>HTTP</u>

Milesight Network Camera		🕀 English 🗸	💄 admin 🗸
the dia →	TCP/IP HTTP RTSP UPnP DDNS Email FTP		
	HTTP Enable Port 80 HTTPS		
@ System	Enable 🗹		
	Port 443 Installed Centificate C=US, HIIP=IPC Reset Attributes Awarded to: C=US, HIIP=IPC Period of Waldry; Aug 13 105712 2023 C Installation Type Create a Private Centificate Create Save		

Table 25. Description of the buttons

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

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Table 26. 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

<u>RTSP</u>

Mile	esight ∙Network Carr	nera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	TCP/IP HTTP RTSP UPhP DDNS Email FTP		
⊒ ⊙	 Network Basic Advanced 	~	RTSP Port 554 O Playback Port 555 O		
ø	🖹 Storage		RTP Packet Better Compatibility		
S	Event	>	Multicast Group Address 239 . 6 . 6 . 6		
	I System	>	Qos DSCP(0-63) 0		

Table 27. 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. Note: 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.

Parameters	Function Introduction
QoS DSCP	The valid value range of the DSCP is 0-63.
Save	Save the configuration.

Table 28. 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.

<u>UPnP</u>

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.

Mile	e <i>sight</i> •Network C	amera				
	🗂 Media	>	TCP/IP HTTP	RTSP UPnP DDNS	6 Email FTP	
☑☑	Network Basic Advanced	~	Enable	1		
	Storage		Enable Port Mapping			
ø	5 Event	>		UPnP		
	🗷 System	>	Туре	Auto	×	
			Protocol Name	External Port	Internal Port	Status
			HTTP	21202	80	Invalid
			HTTPS	22202	443	Invalid
			RTSP	23202	554	Invalid
			Playback	25202	555	Invalid
			Save			

Table 29. Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the UPnP function.
Enable Port Mapping	Check the checkbox to enable the Port Mapping
Name	The name of the device detected online can be edited
Туре	 Auto: Automatically obtain the corresponding HTTP and RTSP port, without any settings Manual: Need to manually set the appropriate HTTP port and RTSP Port. When choose Manual, you can customize the value of the port number by yourself
Save	Save the configuration.

<u>DDNS</u>

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

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

Mil	Milesight ·Network Camera ⊕ English ~ 💄 admin ~							
	🖧 Media	>	TCP/IP HTTP F	RTSP UPnP DDNS Email FTP				
☑☑	Network Basic Advanced	~	Enable	♂ ① ddns.milesight.com ∨				
ø	🖶 Storage		External HTTP Port	80				
Ø	Event	>	External RTSP Port	554				
	😰 System	>	External Playback Port	555				
			Status -	—				
			DDNS URL 1	http://ddns.milesight.com/2AB1E6				
			I	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".

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 Table 30.
 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.

Parameters	Function Introduction
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.

<u>Email</u>

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

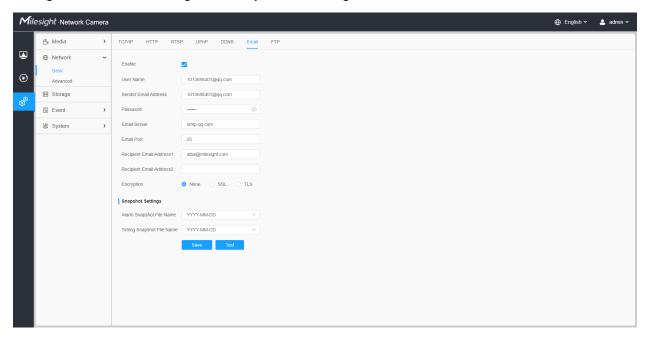


Table 31. Description of the buttons

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.

Parameters	Function Introduction
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.
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 && - &

<u>FTP</u>

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

Media TCP/IP HTP RTSP UPP DNS Email FTP Base: FTP FTP V Advanced FTP FTP V Storage Server Address 192 168.70.57 Server Address Storage Server Address 192 168.70.57 Storage Server Address 192 168.70.57 Storage Server Address 192 168.70.57 Storage User Name abba Password Imm FTP over SSULTS (FTPS) FTP over SSULTS (FTPS) Storage Path Root Directory Adam Action File Name Debul(YYYYAMA-DD) Pe Second 0 s	Image: Advanced FTP Server Settings Basic: Advanced FTP Type FTP Type FTP ************************************	Image: Properties of the properties	esight Network Camera	a	🕀 English 🗸
Basic Advanced FTP Server Settings Advanced FTP Type FTP • • • • • • • • • • • • • • • • • • •	Basc FP Sever Setting Advanced FTP Type FTP Converting Storage Sever Address 152.163.70.97 C Event Sever Port 21 C Event User Name atbaa Password atbaa Password immed Converting FTP Over SSL/TLS(FTPS)	Basc FP Sever Setting Avanced FTP Type Storage Sever Address Storage Sever Port Storage Ver Name Ver Name Taba Password Taba Password Taba Password Storage Part Image: System Taba Password Taba Password Taba Password Taba Password Storage Part Image: Password Root Drectory Atam Action File Name Debuttynyy MM-DO) Password Storage Part Password Storage Part	🖧 Media 🔹	TCP/IP HTTP RTSP UPnP DDNS Email FTP	
Sonage Server Port C E Vent Server Port User Name alba Password ····· · · · · · · · · · · · · · · · ·	Storage Sever Port Sever Port 21 Storage Jaba Password aba Password FPP over SSUTLS(FPFS) FTP over SSUTLS(FTPS) - FTP Storage Satting FOR Jane Control Atam Action File Name Defaul(YVYYAMA-DO) Pre Second 0	Strategie Sever Port 21 Strate User Name Bab Bassord Passord Imm Prover SSL/TLS/FPS Imm Imm Imm Strage Path Rod Directory Jarn Action File Name Defaultry/YyuMA-DD) Imm Pre Scond Imm Strage Path Pre Scond Imm Strage Path	Basic	FTP Server Settings FTP Type FTP V	
Image: System Password Password FMP over SSUTLS(FTPS) FTP over SSUTLS(FTPS) - FTP Storage Settings - Storage Path Root Directory Alarn Action File Name Default(YYY+AML-DD) Timing Snapshot File Name YYYY-AML-DD Pre Second 0 s	Image: System Password Password FTP over SSUTLS(FTPS) FTP over SSUTLS(FTPS) - Image: FTP Storage Sattings FTP storage Sattings Storage Path Root Directory Atarm Action File Name Default(YYYY-MM-DD) Timing Snapshot File Name YYYY-4MM-DD Pre Second 0 s	Image: System Passavord Passavord FTP: over SSL/TLS/FTPS FTP: over SSL/TLS/FTPS		Server Port 21	
FTP Storage Settings Storage Path Root Directory Alarm Action File Name Defaul(YYYY-AMA-DD) Timing Snapshot File Name YYYY-AMA-DD Pre Second 0 s	FTP Storage Settings Storage Path Root Directory Alarm Action File Name Default/YYYYAMA-DD) Timing Snapshot File Name YYYYAMA-DD Pre Second 0 s	FTP Storage Settings Storage Path Root Directory Alarn Action File Name Default(YYYY+MM+DD) ~ Timing Snapshot File Name YYYY+MM+DD ~ Pre Second 0 s ~	褒 System >	Password 🚥 💿	
Alarm Action File Name Default(YYYY+MM+DD) ~ Timing Snapshot File Name YYYY+MM+DD ~ Pre Second 0 s ~	Alarm Action File Name Default(YYYY-MM-DD) ✓ Timing Snapshot File Name YYYY-MM-DD ✓ Pre Second 0 s ✓	Alarm Action File Name Default(YYYY-MM-DD) ✓ Timing Snapshot File Name YYYY-MM-DD ✓ Pre Second 0 s ✓		FTP Storage Settings	
Pre Second 0 s v	Pre Second 0 s v	Pite Second 0 s v		Alarm Action File Name Default(YYYY-MM-DD) ~	
	Save Test	Save Test		Pre Second 0 s v	

Table 32. Description of the buttons

Parai	neters	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.

2.6.2.2 Advanced

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.

Mil	esight ∙Network Came	а	🕀 English 🗸	💄 admin 🗸
	🖧 Media	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
₽	Basic	Enable		
U	Advanced	VLAN ID(1~4094) 1		
¢ [®]	E Storage	VLAN IP		
.	5 Event	VLAN Netmask		
	e loT	VLAN Gateway		
	System	Save		

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

<u>PPPoE</u>

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.

Mill	e <i>sight</i> ∙Network Can	nera								🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	VLAN PPPoE	SNMP	802.1x	Bonjour	RTMP	SIP	More		
	Network	~	Enable								
\odot	Basic Advanced		Dynamic IP								
ø	Storage		User Name								
	5 Event	>	Password								
	e loT	>	Confirm Password								
	System	>		Save	I						

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.

<u>SNMP</u>

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.

Mile	esight Network Can	nera							🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	VLAN PPPoE	SNMP 802.1x Bonjour	RTMP SIP	More				
	Network	~	SNMP v1/v2							
\odot	Basic		Enable SNMP V1							
	Storage		Enable SNMP V2c							
ø	5 Event	>	Write Community	public						
	e loT	>	Read Community	private						
	I System	>	SNMP v3							
			Enable SNMP V3							
			Read Security Name							
			Level of Security	no auth,no priv 🗸 🗸						
			Write Security Name							
			Level of Security	no auth,no priv 🗸 🗸						
			SNMP Port							
			SNMP Port	161						
				Save						

Table 33. 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

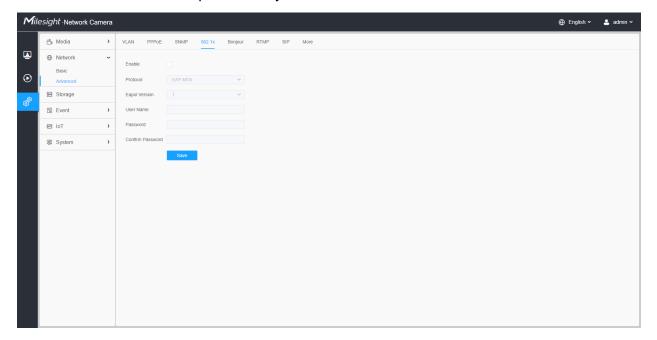
Parameters	Function Introduction
	Enable SNMP v3: Provide encryption and the HTTPS protocol must be enabled.
	Read Security Name: Input the name of Read Security Community.
SNMP v3	Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv).
	Write Security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

<u>802.1x</u>

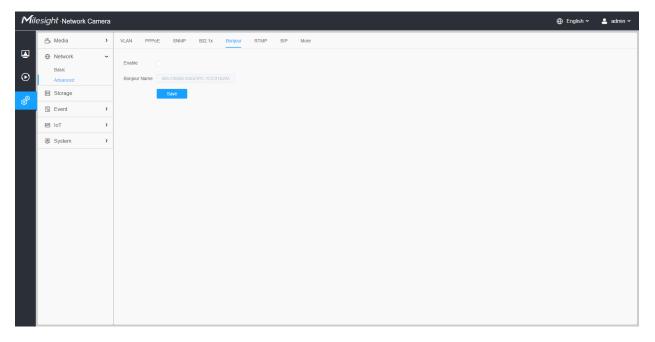
The IEEE 802.1X standard is supported by the network cameras, and when the feature is enabled, the camera data is secured and user authentication is needed when connecting the camera to the network protected by the IEEE 802.1X.



<u>Bonjour</u>

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.



<u>RTMP</u>

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 Cam	na de la companya de	🕀 English 🗸	💄 admin 🗸
	🖧 Media	VLAN PPPOE SNMP 802.1x Bonjour RTMP SIP More		
⊥ ⊙	 Network Basic Advanced 	Enable Stream Type Primary Stream		
ø	E Storage	Server Address		
\$	5 Event	Save		
	æ 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.

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 Network cameras can be configured as SIP endpoint to call out when alarm triggered; or allow permitted number to call in to check the video if the video IP phone is used.

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

	😤 Media	>	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More
₽	Network Basic Advanced	ř	SIP Settings
	E Storage		White List
ø	5 Event	>	Save
	🗟 System	>	

To use this function, the settings in SIP page must be configured properly. There are two ways to get video through SIP, one is to dial the IP address directly, the other is account registration mode. the details are as follows:

Method 1: IP Direct mode

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

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

Method2: Account registration mode

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

[SIP Settings]

Mile	sight Network Ca	mera						
	🖧 Media	>	VLAN PPPoE SNMP	802.1x Bonjour	RTMP	SIP	More	
	Network	~	SIP Settings					~
\odot	Basic			0				
	E Storage		Register Mode		~			
Ô	5 Event	>	User ID	500				
	e loT	>	User Name	sipclient				
	🗟 System	>	Password					
			Server Address					
			Server Port	5060				
			Connection Protocol		~			
			Video Stream		~			
			Enable Audio in SIP Call					
						s (0 means no l	imitation.)	
			Status	Unregistered				
			Alarm Phone List				>	
			White List				>	>
			Save					

Table 34. 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]

Mill	filesight · Network Camera 🕀 English 🗸 🛓 admin v				
	📇 Media	VLAN PPPOE SNMP 802.1x Bonjour RTMP SIP More			
₽	 Network Basic Advanced 	SIP Settings Aurin Phone List			
ø	🗄 Storage	SIP Phone Phone Type Remark Name Duration Delete			
\$	Event	> 1837859036 Phone Number 00.00-23:59			
	🗟 System	Add Delete All			
		White List			

Table 35. 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]

Mile	e <i>sight</i> ·Network C	amera			
	🖧 Media	>	VLAN PPPoE SNM	P 802.1x Bonjour RTI	MP SIP More
	Network Network	~	SIP Settings		
\odot	Basic Advanced		Alarm Phone List		
ø	Storage		White List		
Ø	Event	>	Enable White List Number	Filter	
	System	>	SIP Phone	Phone Type	Delete
				No Data	
			Add		
			Save		

Table 36. 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.

More

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

Mil	esight ·Network Car	nera		🕀 English 🗸	💄 admin 🛩
	🖧 Media	>	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
•	 Network Basic Advanced 	~	Push Message Settings Enable		
ø	Storage		Push Event Type Edit		
\$	5 Event	>	ONV/F Setting		
	en IoT	>	Enable 🔽		
	System	>	Save		

Table 37. Description of the buttons

Parameters	Function Introduction				
	Enable: Enable/disable the Push Message function				
	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				
	✓ Motion Detection ✓ Audio Alarm ✓ External Input ✓ LPR Black ✓ LPR White ✓ LPR Visitor				
	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.				

2.6.3 Storage

Storage Management

Mill	e <i>sight</i> ∙Network Cam	era		e	🕀 English 🗸	💄 admin 🗸			
	🖧 Media	~	Storage Management Record Settings Snapshot Settings Explorer						
۲	Video Image		SD Card						
\odot	Audio		20.466/59.460 Format						
	Network Network	>	NAS						
ø	E Storage		No Server Address Directory Mounting Type Total Free User Name Status Operation						
	S Event	>	No Data						
	System	>	Add						

Before you start:

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

Table 38. Description of the buttons

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

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

Record Settings

Mile	ຂ <i>sight</i> ∙Network Cam	era		🌐 English 🗸	💄 admin 🗸
	🖧 Media	>	Storage Management Record Settings Snapshot Settings Explorer		
•	 Network Basic Advanced Storage 	~	Storage Settings Enable Recycle Storage Pre Second 0 seconds		
ø	la Event	>	Schedule Settings		
	C System	>	9 2 4 6 0 10 12 14 16 10 12 14 100 1 1 1 1 1 1 1 1 1 10		

Table 39. 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.

Snapshot Settings

Mill	e <i>sight</i> ·Network Camera		🕀 English 🗸	💄 admin 🗸
	🖆 Media 🔹 🗘	Storage Management Record Settings Snapshot Settings Explorer		
≞	Network Network	Snapshot Settings		
\odot	😫 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		

Table 40. Description of the buttons

Parameters	Function Introduction			
Snapshot Settings	 Enable Timing Snapshot: Check the checkbox to enable the Timing Snapshot function Interval: Set the snapshots interval, input the number and choose the unit(millisecond, second, minute, hour, day). Save Into Storage: Save the snapshots into SD card or NAS, and choose the file name to add time suffix or overwrite the base file name. Save Into NAS: Save the snapshots into NAS, and choose the file name to add time suffix or overwrite the base file name. Upload Via FTP: Upload the snapshots via FTP. Upload Via Email: Upload the snapshots via Email. Note: If you choose to add time suffix, every snapshot picture will be saved, but if you choose to overwrite the base file name, only one latest picture will be saved. When you choose add overwrite the base file name to SD Card or NAS, it will create a file name "Snapshot" to place the snapshot. 			
Schedule Settings	specified HTTP URL. Edit record schedule as needed. Intuitive scheduling by drawing the time bar directly. Schedule Settings Sun. Mon. Tue. Wed. Thu. Fri. Sat. Select All Clear All			
Schedule Settings	Copy To Image: Copy To Sun. Sun. Mon. Image: 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	•	

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.).

	>	Storage Manage	ment Record Settings Sna	pshot Settings Explorer			
Metwork	>	Main Type	Record V Sub Typ	e All v Start Time 🤇) 2022/03/25 00:00:00 End Time 🕒 2022/03/2	25 23 50 50	Search
E Storage							
Event	>		File Name 120220325192231	Start Time 2022-03-25 19:22:31	End Time 2022-03-25 19:27:35	Type Timing	Size 250.64M
😰 System	>		120220325192735	2022-03-25 19:27:35	2022-03-25 19:32:40	Timing	251.61M
G 0,000			120220325193240	2022-03-25 19:32:40	2022-03-25 19:37:44	Timing	250.92M
			120220325193744	2022-03-25 19:37:44	2022-03-25 19:42:49	Timing	251.36M
			120220325194249	2022-03-25 19:42:49	2022-03-25 19:47:54	Timing	251.44M
			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
			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

2.6.4 Event

2.6.4.1 Basic Event

Motion Detection

Mile	sight Network Camera	a		🌐 English 🗸	💄 admin 🗸
	台 Media	>	Motion Detection Audio Alarm External Input External Output Exception		
	Network	>	Enable Delection		
\odot	😸 Storage		Enable Motion Analysis		
~	la Event	~	Basic Settings		
ø	Basic Event		King Schedule Settings		
	€ LPR	>	Video at 1921 Control of Alam Action		
	@ System	,			
	ca cystam	-	Select All Clear All		

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

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 41. 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		

Table 42. Description of the buttons

[Schedule Settings]

Step5: Set motion detection schedule;

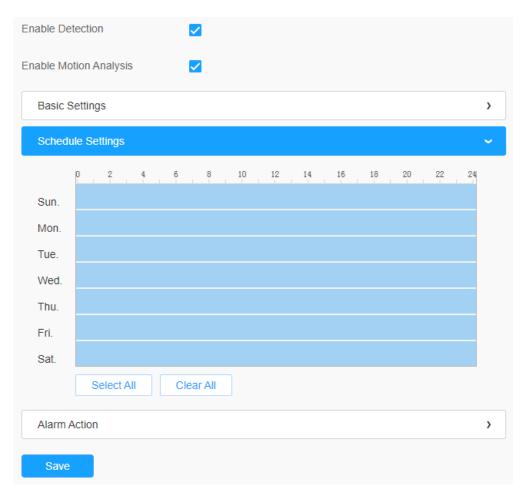


Table 43. Description of the buttons

Parameters	Function Introduction
Copy To X 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 Detection	
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	>
Save	

Table 44. Description of the buttons

Parameters	Function Introduction
Record	Duration: Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available.
Record	Linkage: 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.
	Linkage: 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	Note: Please enable the Audio Speaker.
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.
HTTP Notification	Support to pop up the alarm news to specified HTTP URL.
	Three HTTP notifications at most can be added to the same event. HTTP Notification supports Basic & Digest authentication
White LED	When the alarm triggered, White LED will turn on to warn the detected objects.
	Note: Only for PTZ Bullet.
	When the motion alarm triggered, PTZ Motion allows the camera move the lens to the motion triggered position and zoom in.
PTZ Motion	Note: 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)	Note: Only for PTZ series.

<u>Audio Alarm</u>

Check the check box to enable the Audio Alarm function.

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

Mile	<i>sight</i> ·Network Came	ra								🕀 English 🗸	💄 admin 🗸
	ස් Media	>	Motion Detection Au	udio Alarm Externa	Input External Out	tput Exception					
•	Network	>	1 miles			Enable Audio Alarm	(Please enable the	Audio Mic.)			
\odot	E Storage					Basic Settings			~		
	5 Event	~	-	RTK RTK	Dist The ps	Alarm Threshold	250				
¢	Basic Event		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		mRate-71ps Johon 040/360	Audio Sample Value	0 0				
8	(R) LPR	>	A second the	Vide	o Godes HC/04 F Shewro Oli	Schedule Settings			>		
	😨 System	>		Cùn	ant Connections, 13	Alarm Action			>		
						Save					

[Basic Settings]

Table 45. 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 86)</u> for the meanings of the items, here will not repeat again.

[Alarm Action]

Refer to the table <u>Table 4 (page 87)</u> for the meanings of the items, here will not repeat again.

External Input

Mile	sight Network Camer	a		🕀 English 🗸	💄 admin 🗸
	📸 Media	>	Motion Detection Audio Alarm External Input External Output Exception		
(Wetwork	>	Enable External Input		
\odot	🗄 Storage				
	la Event	~	Alarm Action		
ø	Basic Event		Alam Action		
	🔊 PTZ		Save		
	📾 LPR	>			
	😰 System	>			

Refer to the table <u>Table 3 (page 86)</u> for the meanings of the items, here will not repeat again.

External Output

Miles	<i>sight</i> ·Network Camera	a \oplus	English 🗸	💄 admin 🗸
	🖧 Media	Motion Detection Audio Alarm External Input External Cutput Exception		
	Network	> Normal Status Settings		
\odot	E Storage	External Output Open O Grounded		
	3 Event	Current Status Grounded		
ø	Basic Event			
_	🔊 PTZ	Manual External Output		
a	📾 LPR	Manual Output Start		
	😰 System	> External Output Action Time Manual Control		
		Save		

[Normal Status Settings]

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

[Manual External Output]

You can set the manual external output.

Table 46. 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.

Exception

Table 47. 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 86)</u> for the meanings of the items, here will not repeat again.

2.6.5 LPR

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.

Currently we have several LPR versions, LPR1, LPR2, LPR3, LPR 4, LPR EU, LPR AP, LPR AM and LPR_ME. 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. LPR_ME is for Middle East.

Before you start, 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.

📑 Note:

- The LPR1 version does not require a license.
- 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://</u> milesight.freshdesk.com/a/solutions/articles/69000797908.
- For more details about how to set LPR2, please refer to https://milesight.freshdesk.com/a/solutions/articles/69000797905.
- For more details about how to set LPR3, please refer to <u>https://</u> milesight.freshdesk.com/a/solutions/articles/69000797904.

<u>General</u>

Mile	sight ·Network Camera		🕀 English 🗸	💄 admin 🗸
Mille	♪ Media > ⊕ Network > ≅ Storage © Event >	General Advanced List Management List Event Attibutes Event Evidence Image: Settings Image Mode Image Mode </th <th>English ~</th> <th>L admin ∽</th>	English ~	L admin ∽
	shiai seatui	Add LPR Message Post Settings > Schedule Settings >		

Table 48. Description of the buttons

Parameters	Function Introduction
Enable Detection	Enable/disable the LPR detection function.
Country/ Region (Only for LPR1, LPR4, LPR_AP and LPR_AM)	Select country/ region to detect the license plate.

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

[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.

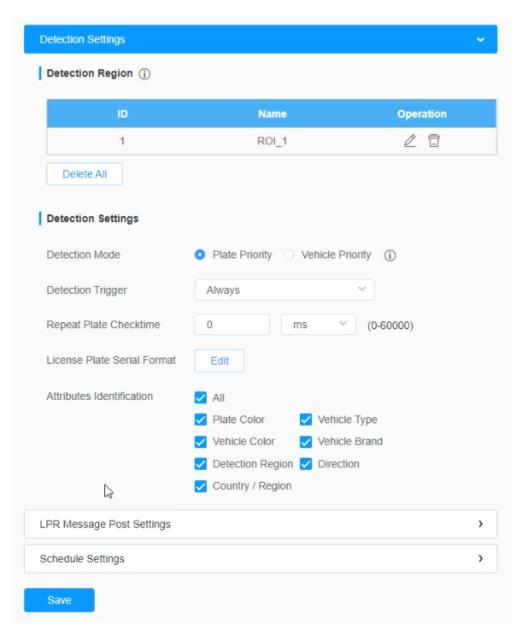
Image Settings		~
Enable LPR Image Mode	✓ ①	
Level	4O	
Detection Settings		>
LPR Message Post Settings		>
Schedule Settings		>
Save		

Table 49. Description of the buttons

Parameters	Function Introduction
Enable LPR Image Mode	To enable LPR Image Mode, parameters of Backlight, Exposure and Day/ Night Switch will be set to special values.
Level	Level 1~5 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.



Note: The detection area can be drawn as an irregular quadrilateral, which greatly enhances the scene adaptability.



Table 50. Description of the buttons

Parameters	Function Introduction				
	area, only four recognitio		click "Add" button to add the a in the list below.		
Add	ID	Name	Operation		
	1	ROI_1	2 🖬		
	2	ROI_2	2 0		
	Note: Only license	plates larger than 150 pixe	ls can be recognized.		
Clear	Click the "Clear" button to	Click the "Clear" button to clear the area being drawn.			
Delete All	Click the "Delete All" button to delete all the added areas.				

Step4: Set Detection Settings.

Table 51. Description of the buttons

Parameters	Function Introduction
Detection Mode	 Plate Priority: Under this mode, the camera will first recognize the license plate and then locate the target as a vehicle with less delay. Vehicle Priority: Under this mode, the camera will first locate the target vehicle and then recognize the license plate to avoid some false detection. Note: Vehicle priority mode can identify vehicles without license plates.

Parameters	Function Introduction
Processing Resolution (Only for LPR1, LPR2, LPR3 and LPR4)	Resolution of the stream for LPR analysis, including 1920*1280, 1280*720, 640*360, 320*176.
Detection Trigger	Always: in this mode, camera will always detect license plates. Alarm Input: in this mode, camera will only detect license plates during Alarm Input is being triggered.
Confidence Level (Only for LPR1, LPR2, LPR3 and LPR4)	You can set the confidence level from 1 to 10. When the confidence level of the license plate is higher than the set confidence level, it will push the license plate image to the logs interface.
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. Note: It supports up to 10 license plate characters.

Parameters			Functi	on Introdu	iction	
	Region enable the Sma • Vel Mo • Vel • Pla	, Direction Attributes lo art Search i hicle Type: torbike, Bic hicle Color	, Country/Reg dentification, it interface. : Car, SUV, Va cycle and Other : Black, White Black, White, R	e, Vehicle Col jion(Only for L will display the an, Bus, Truck, r , Gray, Red, Ye ted, Yellow, Gr	PR2 and LP correspondir Fire engine, <i>i</i> ellow, Green a	R_EU), orAll ng information Ambulance, and Blue
				Vehicle Brand		
		Audi	Aston Martin	Alfa Romeo	Acura	BYD
		Buick	BMW	Bentley	Bugatti	CUPRA
		Cadillac	Chrysler	Chery	Chevrolet	Citroen
		Dodge	Daewoo	Daihatsu	DS	Dacia
dentification		Ford	Ferrari	Fiat	GMC	Geely
		Honda	Haval	Hyundai	Infinity	Isuzu
		Jeep	Jaguar	Kia	Koenigsegg	Lincoln
		Lexus	Land Rover	Lamborghini	LYNK&CO	Lancia
		McLaren	Mercedes-Benz	MITSUOKA	Mazda	MINI
		Maserati	Maybach	Mitsubishi	Mercury	MorrisGarages
		Nissan	Opel	Pagani	Porsche	Peugeot
		Renault	Rolls-royce	Rolls-royce	Seat	Suzuki
		Skoda	Subaru	Smart	Ssangyong	Saturn
		SAAB	Spyker	Shelby	Toyota	Tesla

Step5: Set LPR Message Post Settings.

Enable LPR					
Country / Region	Australia				
Image Settings		>			
Detection Settings		>			
LPR Message Post Setting	js	~			
Enable LPR Message Po	ist 🔽				
Post Type	O HTTP O TCP O RTSP				
Camera LPR Port	3344				
Schedule Settings					
Save					

Table 52. 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 RTSP , TCP or HTTP .
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: http://lP:Port/api/lpr ?
User Name	Receiver name
Password	Receiver Password

[Schedule Settings]

Step6: Schedule Settings.

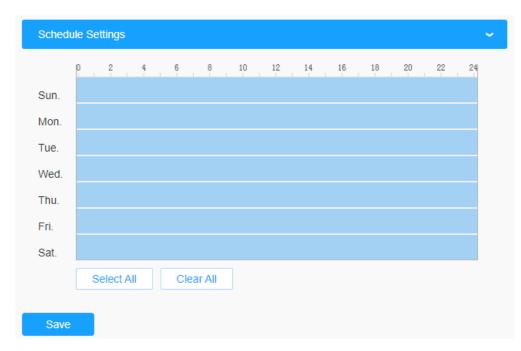


Table 53. Description of the buttons

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

<u>Advanced</u>

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.

Mil	esight Network Came	nera 🕀 E	nglish 🗸 💄 admin 🗸
	🐣 Media	General Advanced List Management List Event	
≞	Network	Snapshot OSD	
\odot	E Storage	Snapshot OSD >	
	5 Event	anapanarine maine /	
Ô	🔊 PTZ		
a	📾 LPR 🔹	v	
	Settings		
	Smart Search	>	
		Save	

[Snapshot OSD]

Mile	<i>≘sight</i> ∙Network Ca	amera					
	🖧 Media	>	General	Advanced	List Management	List Event	
۲	Network	>					
	E Storage			shot OSD	-		
\odot	5 Event	>	Font	Size	Medium	~	
ø		,	Font	Color		•	
	🔊 PTZ		Back	ground Color			
	📾 LPR	~	050	Position	Тор	~	
	Settings) Infomation	I All		
	Smart Search		USL	momation	Plate		
	System	>			License Plate	VII Plate Type	Plate Color
					Vehicle	_	_
					 Vehicle Type Speed 	Vehicle Color	Direction
					Other		
					✓ Time	Position	Device ID
					Detection Region	n 🗹 Device Name	Line Break Character
					File Name	spaces	Sorting
					ime	1 🔨	J⊟ 1⊟
					se Plate	1 ¥	는 10
					e Type peed	1 ~	J⊟ 1⊟ J⊟ 1⊟
					ection	1 ~	4= 1= 4= 1=
				U	colon		

Table 54. Description of the buttons

Parameters	Function Introduction
Font Size	Smallest/Small/Medium/Large/Largest 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. Note: 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	Top/Bottom/Top outside the picture/Bottom outside the picture are available for OSD 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	When license plate is recognized and the alarm is triggered, the snapshot of license plate recognition will show as below:

[Snapshot File Name]

Snapshot OSD Snapshot OSD Snapshot File Name Separator PTZ tem of File Name All	Mile	esight ·Network C	amera				
Sharabid CSD Sharabid File Name Settings Smart Search System System Item of File Name All Pate Settings Smart Search System System Item of File Name Vehicle Type Plate Color Underse Plate Plate Other Other Other Detection Region Detection Region Detection Region Detection Region		🖧 Media	>	General Advance	List Management	List Event	
Image: Storage Storage Image: Storage Storage Image: Storage Storage Image: Storage Separator Image: Storage Image: Storage Image: Storage Image: Storage	۲	Network	>	Snapshot OSD			
Image: Sevent > Separator Image: Separator Image: Separator Image: Settings Image: Settings Image: Settings Smart Search Image: System > Vehicle Type	\odot	E Storage		_	me		
Item of File Name All Settings Sinard Search Image: System Image: System Image: System Image: Syste		Event	>			× 0	
Settings Plate Color Smart Search Vehicle Image: System Plate Type	ø	🔊 PTZ		Item of File Nam	e All		
Settings Vehicle Smart Search Vehicle Type Image: System Image: Speed Other Image: Speed Image: Time Position Detection Region Device ID Image: Time Position Detection Region Device ID Time Sorting Time Image: Time		📾 LPR	~				
Image: System Speed Other Image: Device ID Image: Detection Region Device Name Item of File Name Sorting Image: Time Image: Time					Vehicle		
Time Position Device ID Detection Region Device Name Item of File Name Sorting Time 王/ 王			>			Vehicle Color Direction	
Time If I					🔽 Time		
				Ite	m of File Name	Sorting	
License Plate					Time	4⊟ 1⊟	
					License Plate	J⊟ 1⊟	

Table 55. 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	Plate Type	Plate Color							
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 and \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 Color	Direction
	Speed	
	Other	
	Time Position	_
	✓ Detection Region ✓ Device Name	2
ltem c	f File Name	Sorting
	Time	1⊒ 1⊒
Lice	ense Plate	1⊒ 1⊒
Pla	ate Type	JΞ 1Ξ
:	Speed	JΞ 1Ξ
D	irection	1⊒ 1⊒
Detec	tion Region	1⊒ 1⊒
Position:	Position	1⊒ 1⊒
Dev	ice Name	1⊒ 1⊒
Device ID:	Device ID	1⊒ 1⊒
Pla	ate Color	J⊑ 1⊟
Ver	nicle Type	1⊒ 1⊒
Veh	icle Color	J⊒ 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 Region	n Device Name	
item c	of File Name		Sorting
	Time		1⊒ 1⊒
Lice	ense Plate		J⊟ 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.

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 according to your settings.

When adding the license plates, you can also define the ID card number for the license plate, when the camera identifies these license plates and recognizes the attached ID card number, it will send the ID card number to your parking system through the **Wiegand protocol**, and then your system can respond based on the received information, such as access control.

Note: Please make sure you have correctly connected the Wiegand interface to the camera and enabled it, for more information please refer to: <u>Wiegand (*page 308*)</u>.

M ile:	<i>sight</i> ·Network Ca	amera											⊕ E	nglish 🛩	💄 admin
	🖧 Media	>	General	Advanced	List Management	List Event	Traffic Detect	tion							
₽	Network	>	Plate Type	All	 License 	e Plate									Search
폐	E Storage			License Plate		Plate Type		Schedule Rule	Valid Time	ID Card No.		Note		Oper	
	5 Event	>		MS2023		chedule Mode		Rule 1	2022-07-19 - 2022-07-19	01012022					
9 ⁹	🖨 LPR	~		MS2022		White List			Always	20220101		-		/	Û
a	Settings			MS1111		White List			2022-07-19 - 2022-07-26	01202201				/	
	Smart Search														
	I System	>													
											Total 3	30/page ~	4	1 >	Go to 1
			Dulas												
			Rules	Edit							Add	Upload		Export	Delete List

 Table 56. Description of the buttons

Parameters	Function Introduction									
	Select the license plate type as black or white, enter the ID Card number and license plate, click the "Add" button, the license plate will be added successfully.									
	Add ×									
	License Plate* MS2022									
Add License Plate	Type White List									
	Valid Time Always									
	ID Card No. 20220101									
	Note									
	Save Cancel									
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
	Click the "Edit" button to customize a rule.
Schedule Rules	Mon.
	Add ×
	License Plate* DF53EU7 Type Schedule Mode V
	Schedule Rule 1
	Valid Time Always
	Note
	Save Cancel
	Note: Support setting up to 4 Schedule Rules for Schedule Mode.

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

List Event

Mil	esight Network Camera	a	🕀 English 🗸	💄 admin 🗸
	🖆 Media 🔹	General Advanced List Management List Event		
	Network	List Type Black List White List Visitor		
\odot	E Storage	Enable		
	S Event >			
ø	🔊 PTZ	Alarm Action >		
a	⊜ LPR ✓			
	Settings Smart Search			
	@ System >			

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

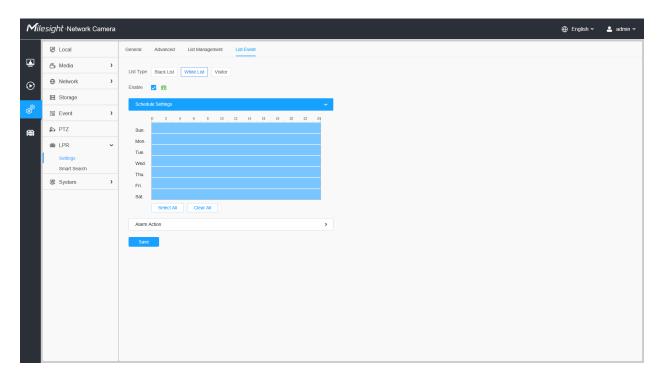
Step2: The corresponding alarm icon is triggered when the Black List/White List/Visitor vehicles passing by.

Mill	<i>esight</i> ∙Network Camer	а	🕀 English 🗸	💄 admin 🗸
	@ Local	General Advanced List Management List Event		
۲	📸 Media	List Type Black List Write List Visitor		
\odot	Network			
	Storage	Schedule Settings 🗸		
ø	5 Event			
	PTZ	Sun.		
	(in) LPR	Tue.		
	Settings Smart Search	Wed		
	🗷 System	Fri.		
		Sat		
		Select All Clear All		
		Alarm Action		
		Save		

Black List:

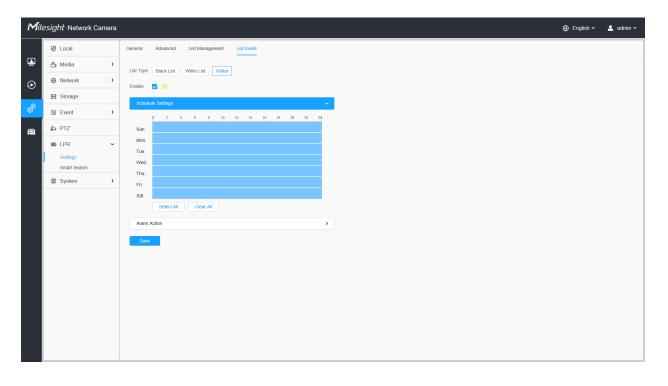
mesigne ne	etwork Camera											🕀 English 🗸	💄 admin
Primary Stire	Tapyxor With barren bidder - klins aus einer hi)								8		
	Freildy							-		T		001 Preset 1 002 Preset 2	
-	FYEILdy					Recognition F		Plate Type: Black I Vehicle Color: Black		hite Vehicle Type: Direction: Awa		002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5	20 00 00 00 00 00
No.	License Plate	Comision Snapshot	Plate Type	Plate Color	Vehicle Type	-		Plate Type: Black I Vehicle Color: Blac				002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7	0 0 0 0 0 0
No. 14				Plate Color White	Vehicle Type Car	DOK69	Speed Dire	Plate Type: Black I Vehicle Color: Blac	k Speed: -	Direction: Awa	ay	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8	24 E2 E3 E3
	License Plate	Snapshot	Plate Type			DOK69 Vehicle Color	Speed Dir	Plate Type: Black I Vehicle Color: Blac ection Detectio	k Speed: - n Region	Direction: Awa	ay Operation	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 8 009 Preset 9 010 Preset 10	20 EG EG EG EG EG
14	License Plate	Snapshot	Plate Type Black List	White	Car	DOK69 Vehicle Color Black	Speed Din	Plate Type: Black I Vehicle Color: Blac ection Detectio Away	k Speed: - n Region	Direction: Awa Time 2022-04-21 23:25:42	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	ਦਰ ਦਰ ਦਰ ਦਰ ਦਰ ਦਰ
14 13	License Plate DOK69 BOJV11	Snapshot	Plate Type Black List Visitor	White White	Car Car	DOK69 Vehicle Color Black Black	Speed Dire	Plate Type: Black I Vehicle Color: Blac ection Detectio Away Away	k Speed: - n Region	Direction: Awa Time 2022-04-21 23:25:42 2022-04-21 23:25:39	ay Operation Q 🖪 Q 🗟	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 008 Preset 7 008 Preset 7 008 Preset 9 010 Preset 10 011 Preset 11 012 Preset 13	
14 13 12	License Plate DOK69 BOJV11 28KZ2	Snapshot	Plate Type Black List Visitor Visitor	White White White	Car Car Car	DOK69 Vehicle Color Black Black Red	Speed Directory	Plate Type: Black I Vehicle Color: Blac ection Detectio Away Away Away	k Speed: - n Region 1 2	Direction: Awa Time 2022-04-21 23:25:42 2022-04-21 23:25:39 2022-04-21 23:25:23	ay Operation 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 13 014 Preset 14	
14 13 12 11	License Plate DOK55 BOJV11 28K72 MGBB2	Snapshot	Plate Type Black List Visitor Visitor Visitor	White White White White	Car Car Car Bus	DOK69 Vehicle Color Black Black Red Blue	Speed Dire	Plate Type: Black I Vehicle Color: Blac ection Detection Away Away Away Away	k Speed: - n Region 1 2	Direction: Awa Time 2022-04-21 23.25.42 2022-04-21 23.25.39 2022-04-21 23.25.23 2022-04-21 23.25.23 2022-04-21 23.25.23	ay Operation Q (R) Q (R) Q (R) Q (R)	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 008 Preset 7 008 Preset 7 008 Preset 9 010 Preset 10 011 Preset 11 012 Preset 13	
14 13 12 11 10	License Plate DOK65 BOJV11 2BK22 MGBB2 DOCG1	Snapshot	Plate Type Black List Visitor Visitor Visitor Visitor	White White White White White	Car Car Car Bus Car	DOK69 Vehicle Color Black Black Red Blue White	Speed Dirr 	Plate Type: Black I Vehicle Color: Blac ection Detection Away Away Away Away Away Away	k Speed: - n Region 1 2 2 2	Direction: Awa Time 2022-04-21 23 25 30 2022-04-21 23 25 30 2022-04-21 23 25 30 2022-04-21 23 25 30 2022-04-21 23 25 10	ay Operation Q (E) Q (E) Q (E) Q (E) Q (E)	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	
14 13 12 11 10 9	License Plate DOK65 BOJV11 28K22 MGB82 DOCG1 FE301	Snapshot 1002/05 2007/2 2007/2 2007/2 2007/200	Plate Type Black List Visitor Visitor Visitor Visitor Visitor	White White White White White White	Car Car Car Bus Car Car	DOK69 Vehicle Color Black Black Red Blue White Black	Speed Dira 	Plate Type: Black i Vehicle Color: Blac ection Detectio Away Away Away Away Away Away	k Speed: - n Region 1 2 2 2	Direction: Awa Time 2022-04-21 23.25.42 2022-04-21 23.25.23 2022-04-21 23.25.21 2022-04-21 23.25.17	ay Operation Q (E) Q (E) Q (E) Q (E) Q (E) Q (E)	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 14 015 Preset 15 016 Preset 16 017 Preset 17	

White List:



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Primary Str	ream 🗸 HTTP 🗸	Balanced - LPR	v								a	<u>8</u> ₿	
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											107	• •	
			9									001 Preset 1 002 Preset 2	
							100000	-11-				003 Preset 3	
						Recognition F			Type: White List Plate Color: e Color: Red Speed: -	White Vehicle Type: Direction: Awa		004 Preset 4 005 Preset 5	
No.	License Plate	Snapshot	Plate Type	Plate Color	Vehicle Type			Direction	Detection Decise	Time	Operation	006 Preset 6 007 Preset 7	
	DOH1	T.DotHI		White	Minibus	Vehicle Color Red	Speed		Detection Region	2022-04-21 23:25:45		008 Preset 8	
15 14	DOH1 DOK6	TEDEK (White List Black List	White	Car	Black		Away	2	2022-04-21 23:25:45	QB	009 Preset 9 010 Preset 10	
13	BOJV1	100 30	Visitor	White	Car	Black		Away	1	2022-04-21 23:25:39	QE	011 Preset 11	
12	2BKZ	21BKZ	Visitor	White	Car	Red		Away	2	2022-04-21 23:25:23	QE	012 Preset 12 013 Preset 13	
11	MGBB.	MGIBB.	Visitor	White	Bus	Blue		Away	2	2022-04-21 23:25:21	QB	014 Preset 14	
10	DOCG	E RPREE	Visitor	White	Car	White	-	Away	2	2022-04-21 23:25:19	QIE	015 Preset 15 016 Preset 16	
9	FE30	E FIE 3	Visitor	White	Car	Black	-	Away	2	2022-04-21 23:25:17	QE	017 Preset 17 018 Preset 18	
8	DOJC	TOC- JO	Visitor	White	Car	Gray		Away	2	2022-04-21 23:25:14	QR		
	WHV07	THERE IN CO.	Visitor	White	Car	Grav		Away	2	2022-04-21 23:25:10	OB	020 Preset 20	
7		A CHINA SOL									AUTO 🛩 🛄	021 Preset 21	

Visitor:



esignt ·N	letwork Camera											⊕ English ∽ 💄 a
Primary Str	ream 🗸 HTTP 🗸	Balanced - LPR	÷								Ø	छ ह
	and the first state		a	a 2429							the second second	
L			R	FIE 3L					I I	1000		 ۵ ۵ ۵ ۵ ۵
										FiE 3L	Control La ma	© □ 0 ☆ © 0 © ● 0
						Recognition R	esult		Ĵ			
			4			FE30			Plate Color Color: Black Speed: -	: White Vehicle Type: 0 Direction: Awa		005 Preset 5 006 Preset 6
		Snapshot	Plate Type	Plate Color	Vehicle Type	Vehicle Color	Speed D	irection	Detection Region	Time	Operation	007 Preset 7 008 Preset 8
No.	License Plate	onuparior						Away	2	2022-04-21 23:26:00	QE	008 Preset 8 009 Preset 9
No. 18	FE301	PIFAE 30	Visitor	White	Car	Black	-	Privay	2	2022-04-21 23.20.00		
			Visitor Visitor	White	Car Car	Black Gray	-	Away	2	2022-04-21 23:25:57	QE	010 Preset 10
18	FE301	FOE 31					-					011 Preset 11
18 17	FE301 DOJO3	H FAT 30	Visitor	White	Car	Gray	-	Away	2	2022-04-21 23:25:57	QE	
18 17 16	FE301 DOJO3 WHVOZ	1 F 1 5 30 1 D 1 20 3 1 H 1 1 0 2	Visitor Visitor	White	Car Car	Gray Gray	-	Away Away	2 2	2022-04-21 23:25:57 2022-04-21 23:25:53	Q 🖪 Q 🖪	011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 14
18 17 16 15	FE301 DOJO3 WHVOZ DOH10	A FOE 30 1001007 (04HV507 (1007H41	Visitor Visitor White List	White White White	Car Car Minibus	Gray Gray Red	-	Away Away Away	2 2	2022-04-21 23:25:57 2022-04-21 23:25:53 2022-04-21 23:25:45		011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15
18 17 16 15 14	FE301 DOJO3 WHVOZ DOH10 DOK69:	H FCE 30 1001305 10481/102 1007H 11 1007K 40	Visitor Visitor White List Black List	White White White White	Car Car Minibus Car	Gray Gray Red Black	•	Away Away Away Away	2 2	2022-04-21 23:25:57 2022-04-21 23:25:53 2022-04-21 23:25:45 2022-04-21 23:25:42		011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15 016 Preset 16 017 Preset 17
18 17 16 15 14 13	FE301 DOJO3 WHVOZ DOH10 DOK69: BOJV11	1 F0 F 30 1 00 100 2 1 00 11 00 1 00 11 00	Visitor Visitor White List Black List Visitor	White White White White White	Car Car Minibus Car Car	Gray Gray Red Black Black	· · · ·	Away Away Away Away Away	2 2	2022-04-21 23:25:57 2022-04-21 23:25:53 2022-04-21 23:25:45 2022-04-21 23:25:42 2022-04-21 23:25:39		011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15 016 Preset 16 017 Preset 17 018 Preset 18
18 17 16 15 14 13 12	FE301 DOJ03 WHVO2 DOH10 DOK69 BOJV11 2BK22		Visitor Visitor White List Black List Visitor Visitor	White White White White White	Car Car Minibus Car Car Car Car	Gray Gray Red Black Black Red	· · · ·	Away Away Away Away Away Away	2 2 1 1 2 2	2022-04-21 23 25 57 2022-04-21 23 25 53 2022-04-21 23 25 55 2022-04-21 23 25 45 2022-04-21 23 25 42 2022-04-21 23 25 39 2022-04-21 23 25 23		011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15 016 Preset 16 017 Preset 17

[Schedule Settings]

Step3: Schedule Settings.

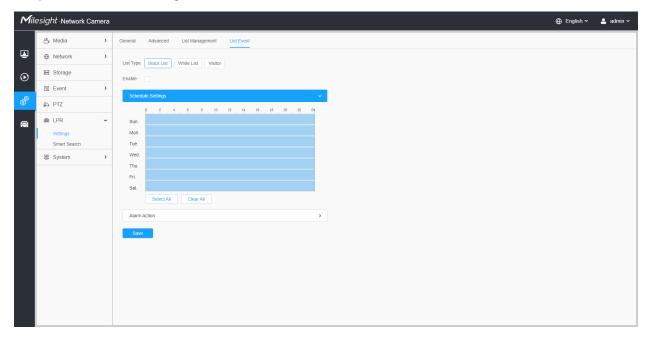


Table 57. Description of the buttons

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 Came	era			
	🖧 Media	>	General Advanced List Management List Event		
	Metwork	>	List Type Black List White List Visitor		
\odot	E Storage		Enable		
	Event	>	Schedule Settings		,
ø	PTZ		Alarm Action		
a		~	Record	>	٦
	Settings Smart Search		Snapshot	>	
		>	Play Audio (Please enable the Audio Speaker.)	>	
			Alarm to SIP Phone (Please open the SIP.)		
			HTTP Notification	>	
			White LED	>	
			Save		

Table 58. Description of the buttons

Parameters	Function Introduction
Record	 Duration: Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available. Linkage: Save alarm recording files into SD Card or NAS or Upload the recording files via FTP.
Snapshot	 Number: The number of snapshot, 1~5 are available. Interval: This cannot be edited unless you choose more than 1 to Snapshot. Linkage: 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.
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.
HTTP Notification	 Support to pop up the alarm news to specified HTTP URL. Note: Three HTTP notifications at most can be added to the same event. HTTP Notification supports Basic & Digest authentication
White LED	When the alarm triggered, White LED will turn on to warning the detected objects (Only for PTZ Bullet).

<u>Evidence</u>

This function can bind other cameras as evidence cameras to assist in capturing the entire monitoring scene of the LPR camera to facilitate forensics and help law enforcement.

Milesi	<i>ight</i> ∙Network Cam	era					
	🖧 Media	>	General A	Advanced List Man	agement Li	st Event Attri	butes Event Evidence
	Network	>	Enable 🔽				
D	🗄 Storage		Evidence	Comoros			~
	S Event	>		D Name	Enable	Status	Operation
ð [®]	🔊 PTZ			1 camera A		0	
a	📾 LPR	~	2	2 camera B	<	0	2 8
	Settings Smart Search		Add				
	Shan Search	>	Event Sett	tings			>
			Save				

Settings steps are shown as follows:

Step1: Check the checkbox to enable this function.

Step2: Click button to add the evidence camera by entering the user name, password, and Address. And the camera name of the evidence camera can be customized.

Note:

- Up to 2 evidence cameras can be added.
- Evidence camera captures primary stream picture by default.
- For the Address, input evidence camera IP directly for Milesight camera, and snapshot URL is supported for third-party camera.

	Add		×
Camera Name*	cameraB		
User Name*	admin		
Password*		6	
Address*	192.169.69.162		
Address*	192.169.69.162		(j)
	Save Cancel		

Step3: The added evidence cameras will be listed in the interface, and users can edit these cameras separately.

ole	2			
ID	Name	Enable	Status	Operation
1	camera A		0	2 🖯
2	camera B	~	0	2 🗇

For the meaning of the buttons on the interface, please refer to the following table.

Table 59.

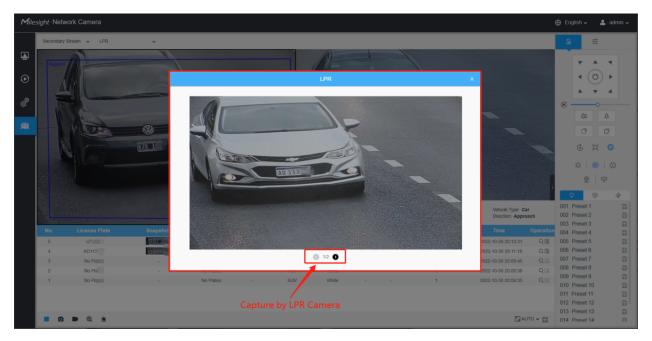
Parameters	Function Introduction
	Enable or disable the evidence camera.
	Check the connection status of the evidence camera.
Ø, 9	Connect
	IDisconnect

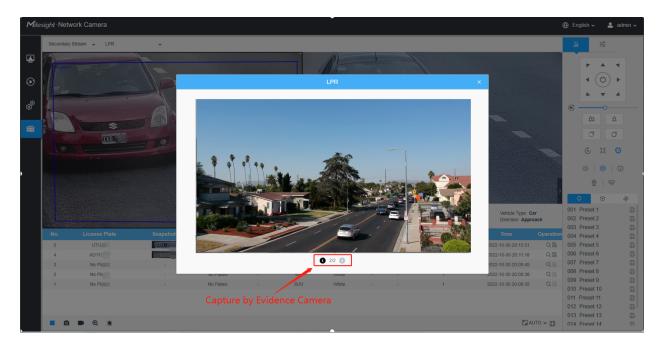
Parameters	Function Introduction
2	Edit the evidence camera.
Û	Delete the evidence camera.

Step4: Set Capture Conditions. Currently it only supports the always option, which means that as long as the camera recognizes the license plate, the evidence camera will be triggered to capture a picture of the entire scene.

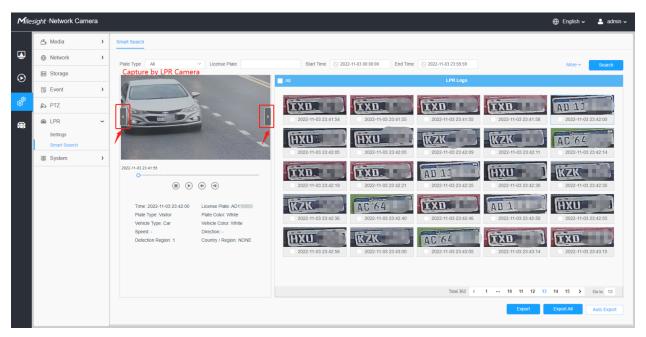
Event Settings	~
Capture Conditions Always	

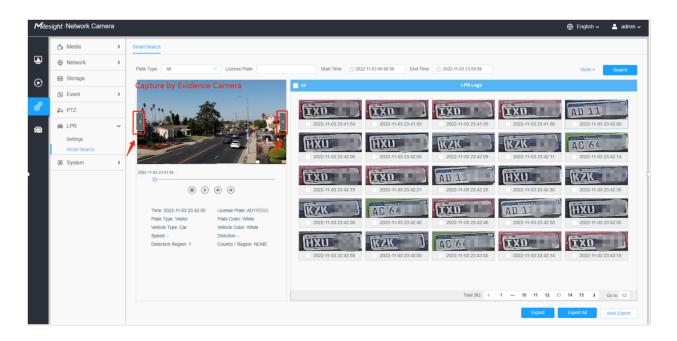
Step5: After completing the above settings, the evidence camera will work together to capture the scene when the LPR camera captures the license plate, which can be viewed on the Live View interface of LPR Mode.





Users can also search and export the image captured by evidence camera in the Smart Search interface.





Smart Search

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

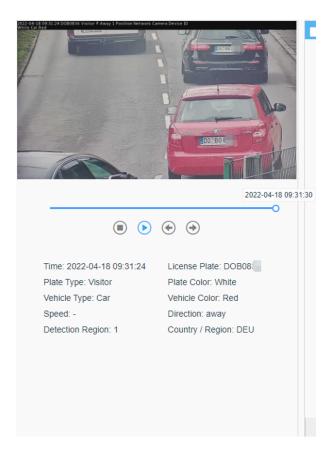
Mil	esight ∙Network Ca	imera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Smart Search		
	Network	>	Plate Type Visitor V License Plate Start Time 🔿 2022-04-18 00 00 00 End Time 🕓 2022-04-18 23 59 59	More ~	Search
\odot	E Storage				
	5 Event	>			
ø	🔊 PTZ		Image: Second	DO KD 2	0
a	lPR	~	2022-04-18 09 29 56 2022-04-18 09 30 10 2022-04-18 09 30 16 2022-04-18 09 30 16	2022-04-18 0	9:30:25
	Settings Smart Search		DO: TD 21 DO: BK'66 MIC KH3 DO: SO 21	PB	2
	Smart Search	>	2022-04-16 09:30:42 2022-04-16 09:30:47 2022-04-16 09:30:49 2022-04-16 09:31:19	2022-04-18 0	9:31:22
			2022-44-18 09 31-30 DO NN 2 DO BO 8 DO LM 66 DO AE 16	DOSRS	51
			 (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	2022-04-18 0	9:32:13
			Time: 2022-04-18 09:31:24 License Plate: DOBC Plate Type: Valitor Plate Color: Vhite Vehicle Type: Car Vehicle Color: Red Speed Direction: away Detection Region: 1 Country / Region: DEU	4 5 >	Go to 5
			Export	Export All	Auto Export

Step1: Select Plate Type and Vehicle Attributes 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.

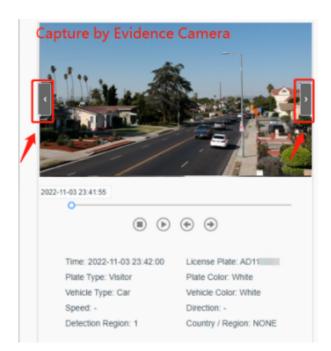


- It supports displaying 4,000 logs.
- Only when there is a SD Card or NAS has been set on the storage management, then the logs can be stored and showed on Smart Search page.

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



Note: If the evidence feature is enabled, you can also click the arrow button on the snapshot to check the image captured by the evidence camera.



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

	Export	×
Export File	Plate List Video Picture Plate List(With pictures)	
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	2	
Day	Everyday ~	
Time	O0:00:00	
Export Time Range	Export All	
Export to	FTP Email Storage	
Sav	e Cancel	

2.6.6 System

System Setting

Here you can check System information and Date&Time.

System info

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

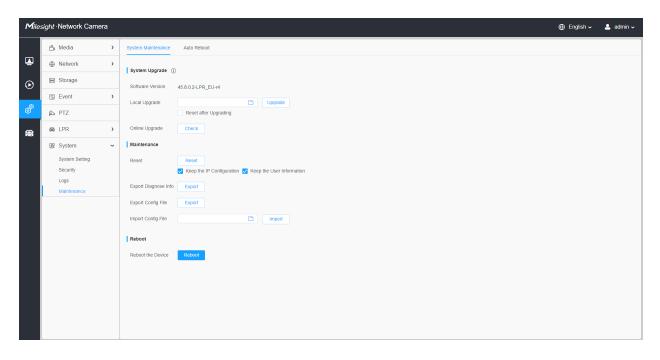


Table 60. Description of the buttons

Parameters	Function Introduction
Device Name	The device name can be customized.
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. Note: Only for LPR Series.
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.
Alarm Input	The number of Alarm Input interface. Note: The Alarm Input will appear only when the camera have alarm input/ output interface.

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

Date&Time

Mile	e <i>sight</i> ·Network Can	nera		🕀 English 🗸	💄 admin 🗸
	🝰 Media	>	System Info Date&Time		
	Network	>	Current System Time		
\odot	E Storage		Date 27/03/2022		
	la Event	>	Time 15:33:04		
ø	e loT	>	Set the System Time		
	🗷 System	~	Time Zone (UTC+08.00) China(Beijing, Ho $ \lor $		
	System Setting Security		Daylight Saving Time Disabled V		
	Logs		Synchronize Mode ONTP server 🧿 Manual O Synchronize with computer time		
	Maintenance		Time 🕓 2022-03-27 15:33:03		
			Sort		

Table 61. 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
	Synchronize Mode: 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.

Security

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

<u>User</u>

Mile	sight Network Ca	amera					
	🖆 Media	>	User Online User	Access List	Security Service	Watermark	About
₽	Network	>	Manage Privilege				
\odot	E Storage		Allow Anonymous Viewin	ng			
	🗟 Event	>	Security Question				
ø	e loT	>	Security Question	Edit			
	System	~	Account Management	۵			
	System Setting Security		ID User N		Privilege	Opera	ition
ľ	Logs		1 adm		Administrator	l	
	Maintenance		Add				
			Save				

Table 62. 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	Func	ction Introduction
		urity questions for your camera. In case that you "Forget Password" button on login page to reset the rity questions correctly.
	Security	Question Settings ×
	Admin Password*	
	Security Question1	hat's your father's name?
	Answer1*	
	Security Question2	hat's your father's name?
	Answer2*	
	Security Question3	hat's your father's name?
	Answer3*	
Security Question	Save	Cancel
	There are twelve default questions questions.	below, 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
Account Management	Click "Add" button, it will display Account Management page. You can add an account to the camera by entering Admin Password, User Level, User Name, New Password, Confirm, and edit user privilege by clicking Save 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. 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: Support up to 20 users, including a default user and 19 custom added users. The operator privilege is all checked by default.

Online User

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

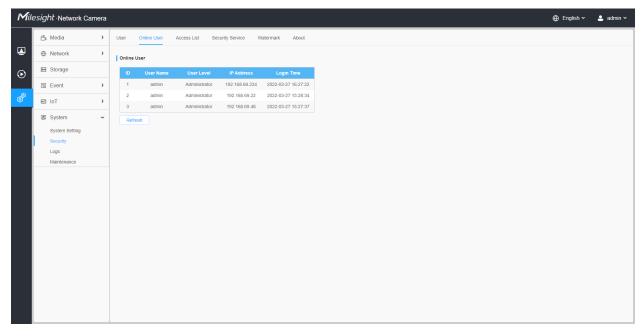


Table 63. Description of the buttons

Parameters	Function Introduction
Refresh	Click to get latest status of user accessing to camera.
ID	 Record serial number of user logging in camera. Note: There are at most 30 records shown at the list. There is only one record if the same user logs in camera by the same IP address.
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.

Access List

Mile	≘ <i>sight</i> ∙Network Ca	amera			
	🖧 Media	>	User Online User Access L	ist Security Service	e Watermark About
•	Network	>	General Settings		
\odot	E Storage		Max. Number of Connection 10		×
	5 Event	>	Access List		
ø	loT ₪	>	Enable Access List Filtering		
	I System	~	Filter Type O Alle	ow 💿 Deny	
	System Setting Security		ID Rule	Address	Operation
	Logs			No Data	
	Maintenance		Add Delete All		
			Save		

Table 64. 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.
Access List	Enable Access List Filtering: Able to access or restrict access for some IP address.

Parameters		Function Introduction
	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.
	<u></u>	Edit the selected IP on access list.
	Ē	Delete the selected IP on access list.
Save	Save the configuration	n.

Security Service

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

Table 65. Description of the buttons

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

Watermark

Mile	esight •Network Ca	mera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	User Online User Access List Security Service Watermark About		
۲	Network Network	>	Watermark Settings		
\odot	🗄 Storage		Enable		
	Event	>	Watermark String IP CAMERA		
ø	e loT	>	Save		
	System	~			
	System Setting Security Logs Maintenance				

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

<u>About</u>

Mile	sight Network C	amera							🕀 English 🗸	💄 admin 🛩
	🖧 Media	>	User	Online User	Access List	Security Service	Watermark	About		
	Network	>	Open So	ource Software	Licenses					
\odot	E Storage		Vier	w Licenses						
	Event	>								
ø	፼ loT	>								
	System	~								
	System Setting									
	Security									
	Maintenance									

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

Logs

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

🖰 Media	>	Logs						
Network Network	>	Main Type All Types	 Sub Type All Types 	✓ Start Time (€) 2022-	03-27 00:00:00 End Tir	me (b) 2022-03-27 23:59:59		Sear
E Storage		Time	Main Type	Sub Type	Param	User	IP	Detail
5 Event	>	2022-03-27 16:27:22	Operation	RTSP Session Start	- aram	USEI	192.168.69.234	RTSP
e loT	>	2022-03-27 16:27:22	Operation	RTSP Session Start			192.168.69.234	RTSP
es 101	,	2022-03-27 16:27:22	Operation	Video Param Set Remotely			192.168.69.234	Main(bit rate change.)
System	~	2022-03-27 16:27:22	Operation	RTSP Session Start	-	admin	192.168.69.22	HTTP
System Setting		2022-03-27 16:27:22	Operation	Config Remotely	Date&Time	admin	192.168.69.234	
Security		2022-03-27 15:29:09	Operation	RTSP Session Stop	-	admin	192.168.69.22	HTTP
Logs		2022-03-27 15:28:34	Operation	RTSP Session Start	-	admin	192.168.69.22	HTTP
Maintenance		2022-03-27 15:28:34	Operation	Login Remotely	-	admin	192.168.69.22	
		2022-03-27 15:28:00	Operation	RTSP Session Stop		admin	192.168.69.22	HTTP
		2022-03-27 15:27:37	Operation	Login Remotely		admin	192.168.69.48	
		2022-03-27 15:27:34	Operation	RTSP Session Start	-		192.168.69.48	RTSP
		2022-03-27 15:27:33	Operation	RTSP Session Start	-		192.168.69.48	RTSP
		2022-03-27 15:27:23	Operation	Config Remotely	Date&Time	admin	192.168.69.234	
		2022-03-27 15:25:40	Operation	Reset Remotely	-	admin	192.168.69.22	
		2022-03-27 15:25:39	Operation	RTSP Session Stop	-		192.168.69.48	RTSP
		2022-03-27 15:25:39	Operation	RTSP Session Start			192.168.69.48	RTSP
		2022-03-27 15:25:38	Operation	RTSP Session Start			192.168.69.48	RTSP
		2022-03-27 15:25:31	Operation	RTSP Session Start	-		192.168.69.48	RTSP
						Total 1122 30/page v <	2 3 4 5 6	38 > Go to

Table 66. Description of the buttons

Parameters	Function Introduction	
Main Type	There are five main log types: All Type, Event, Operation, Information, Exception and Smart.	
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.	
Export	Export the logs.	

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

Maintenance

Here you can configure System Maintenance and Auto Reboot.

System Maintenance

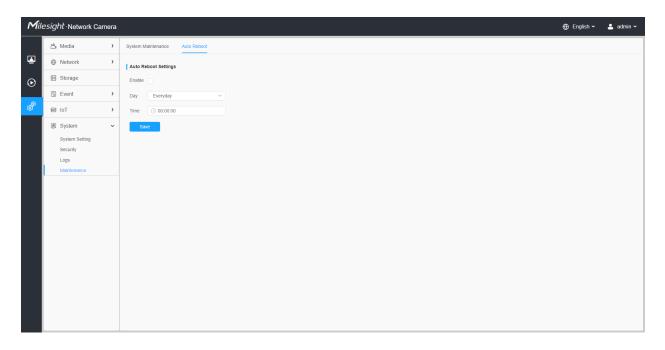
Mile	esight Network Came	ra		🕀 English 🗸	💄 admin 🗸
	🛱 Media	>	System Maintenance Auto Reboot		
	Network	>	System Upgrade ①		
\odot	Storage		Software Version 45.8.0.2.LPR_EU-r4		
	5 Event	>	Local Upgrade		
Ø	🔊 PTZ		Reset after Upgrading		
	📾 LPR	>	Online Upgrade Check		
	😰 System	~	Maintenance		
	System Setting Security		Reset Reset Keep the IP Configuration Keep the User Information		
	Logs Maintenance		Export Diagnose Info		
			Export Config File Export		
			Import Config File		
			Reboot		
			Reboot the Device Reboot		

 Table 67. Description of the buttons

Parameters	Function Introduction	
	 Software Version: The software version of the camera. Local Upgrade: Click the "Browse" button and select the upgrading file, then click the "Upgrade" button to upgrade. After the system reboots successfully, the update is done. You can check "Reset after Upgrading" to reset the camera after upgrading it. Online Upgrade: Click the "Check" button to check the current latest firmware version on our website, and then click "OK" to upgrade to this version. It will prompt "The current version is the latest version" if your camera is already the latest version. 	
System Upgrade	Tips ×	
	Provide the statest tension.	
	ок	
	Note: 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. Mote: The file format is ".txt". Export Config File: Click this button and a window will pop up as shown below: File Encryption Configuration Input the encryption password Save Cancel		
Maintenance	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 Note: Export and import the same configuration file. Password must be the same.		

Auto Reboot



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

Chapter 3. Road Traffic Management

3.1 Product Description

3.1.1 Product Overview

Milesight Road Traffic Management Camera combines video surveillance with AI, ANPR, 3D Radar and other cutting-edge technologies to help traffic management agencies systematically and intelligently monitor and understand road users' behavior and gain valuable insights based on real-time data to optimize traffic flow, minimize accident risks, and respond to emergencies more efficiently. It can be widely used in urban public security management systems, which can significantly improve management efficiency and make traffic smarter, safer and smoother.

3.1.2 Related Product

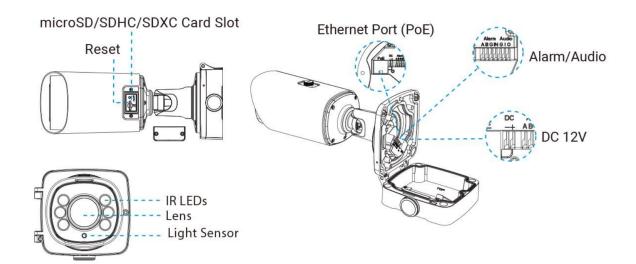
Product	Name	
	AI Road Traffic Pro Bullet Plus Camera	
	AI Road Traffic Radar Pro Bullet Plus Camera	
and i	Al Road Traffic PTZ Bullet Camera	
	AI Road Traffic PTZ Bullet Plus Camera	

Table 68.

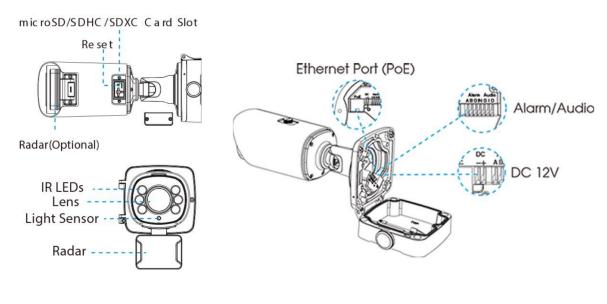
Product	Name
Marger Marger	AI Road Traffic Speed Dome Camera
	AI Road Traffic Supplement Light Pro Bullet Plus Camera
	AI Road Traffic Parking Detection Pro Bullet Plus Camera

3.1.3 Hardware Overview

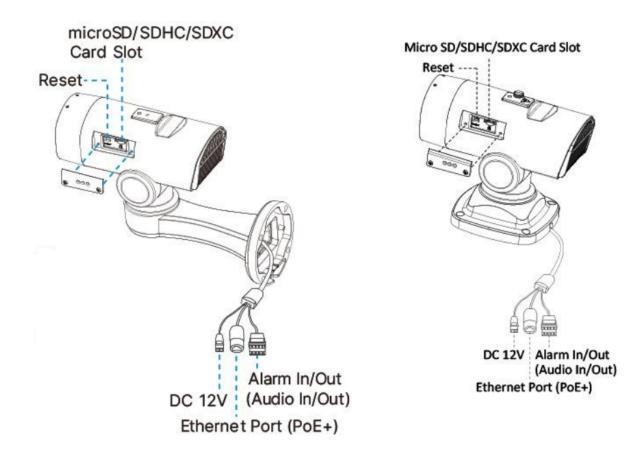
Al Road Traffic Pro Bullet Plus Camera



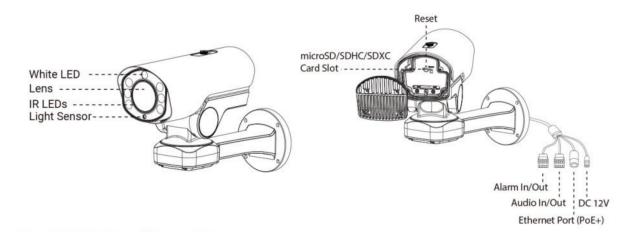
• Al Road Traffic Radar Pro Bullet Plus Camera



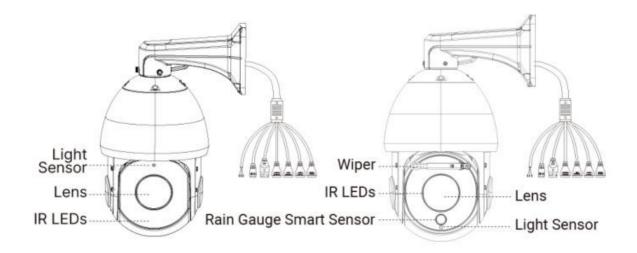
• AI Road Traffic PTZ Bullet Camera



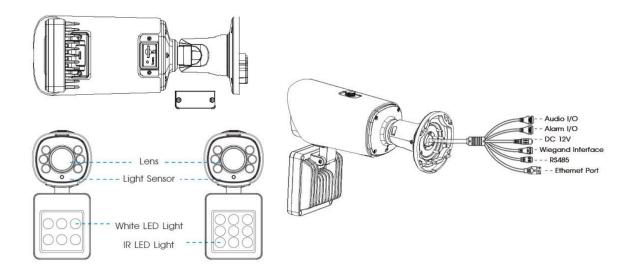
Al Road Traffic PTZ Bullet Plus Camera



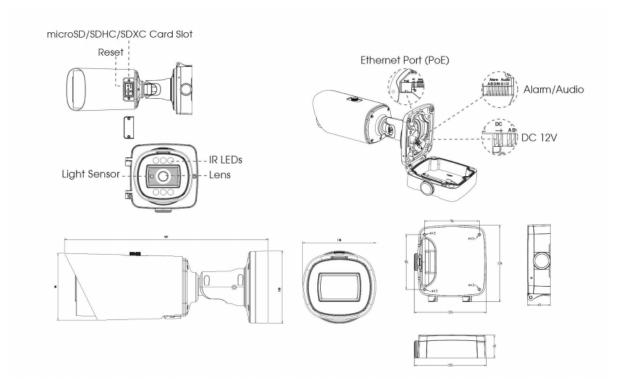
• AI Road Traffic Speed Dome Camera



• Al Road Traffic Supplement Light Pro Bullet Plus Camera



• Al Road Traffic Parking Detection Pro Bullet Plus Camera



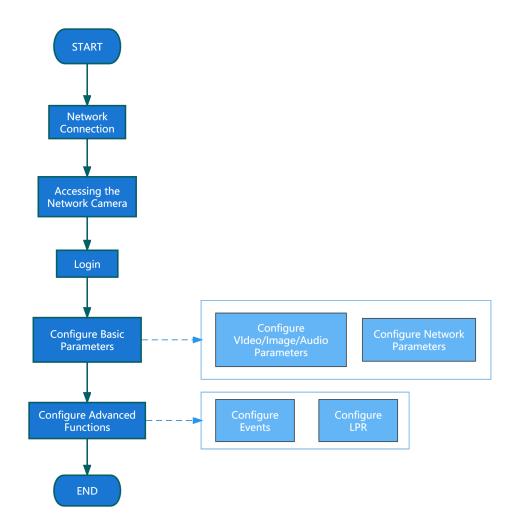
3.1.4 Related Documents

Table 69.

Document Type	Link	
Road Traffic Management Camera		
Datasheet	https://www.milesight.com/static/file/en/download/datasheet/ipc/traffic/Milesight- Road-Traffic-Management-Datasheet-en.pdf	
Quick Start Guide	https://www.milesight.com/static/file/en/download/user-manual/ipc/Milesight- Network-Camera-Quick-Start-Guide.pdf	

3.2 Configuration Flow

The configuration flow of Road Traffic Management Camera is shown in the following figure.



More configuration details is shown in the following table.

Table 70. Description of flow

Configuration	Description	Reference
Network Connection	Connect the network camera. You can set the camera over the LAN or dynamic IP connection.	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.	Assigning an IP Address (page 13)
Configure Basic Parameters	After login the camera, you can adjust the video/image/audio/network parameters as needed.	<u>Video (page 34)</u> Image (page 37)
Configure Advanced Functions	Configure LPR-related settings and other advanced functions.	<u>General (page 91)</u>

3.3 Network Connection

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.

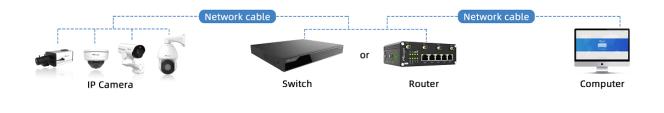
Connect the Camera to the PC Directly

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.



Connect via a Switch or a Router

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



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.



3.4 Accessing the Network Camera

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

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;

6				<u>()</u>			Ø—	G			🛓 🔒 admin	¢ — 🗆 :
	►	PC Tools		Network	Setting	Ρ	review l	Jpgrade			A Passwor Q Search h	
	No.	Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
Π	9	Network Camera	Active	1C:C3:16:27:6B:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373-PB	2022-03-11 20:	41.7.0.79	Θ
С	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	Θ
Π	11	Network Camera	Active	1C:C3:16:20:10:43	192.168.69.61	80	255.255.240.0	192.168.69.1	MS-C2963-LPB	2022-03-03 13:	43.7.0.79-LP	Θ
С	12	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266-X4G	2022-03-15 11:	45.8.0.1-AIo	Θ
П	13	Network Camera	Active	1C:C3:16:24:09:D2	192.168.69.96	80	255.255.240.0	192.168.69.1	MS-C2964-FPB	2022-01-09 17:	40.7.0.79-r7	Θ
С	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
Г	15	Network Camera	Active	1C:C3:16:2A:06:91	192.168.69.98	80	255.255.255.0	192.168.69.1	MS-C5367-X23PC	2022-03-15 09:	45.7.0.79-r30	Θ
С	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
Γ	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	Θ
		Device Name: Netv	vork Came	era IP: 192.168.6	9 .204 Ports	80	Netmask:	255.255.255.0	Gateway: 19	2.168.69 .1	DNS: 8 .8 .8	.8
									(f) Activate	上) Export Devic	e List 🗙 M	
Oper	ating Ir	nformation							Ŭ	Ŭ	<u> </u>	
_												
										😐 Sa	ve 🗵	

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

Select single camera:

4		PC Tools		Network	— 🛞 — Setting	 P	review l	G Jøgrade			Ø ▲ admin A Password Q Search he	re
	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
С	19	Network Camera	Active	1C:C3:16:2B:C4:C9	192.168.69.134	80	255.255.255.0	192.168.69.1	MS-C2967-X23R	2022-03-14 14:	45.8.0.1-a2	0
С	20	Network Camera	Active	1C:C3:16:22:0B:53	192.168.69.135	80	255.255.255.0	192.168.69.1	MS-C2961-QELPB	2022-03-11 19:	43.7.0.79-LP	0
	21	Network Camera	Active	1C:C3:16:27:60:43	192.168.69.137	80	255.255.240.0	192.168.69.1	LS2914-ZYNX36	2022-02-11 09:	41.7.44.78-a	0
С	22	Network Camera	Active	1C:C3:16:24:F0:3C	192.168.69.139	80	255.255.255.0	192.168.69.1	MS-C5351-HEPB	2022-02-22 09:	43.7.0.79-r3-t2	0
П	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
Π	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
Π	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	Ο
1/38 Oper		Device Name: Net	work 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 e List XM	.8 odify
							V2,4.0,4			E Sa	we 🚫 C	car

Select multiple cameras:

6	, IP	'C Tools		Network	🛞 Setting	 F	review (G Jpgrade				☆ — min ssword arch here…	
	No.	Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage	
0	9	Network Camera	Active	1C:C3:16:21:01:C4	192.168.5.191	80	255.255.255.0	192.168.5.1	MS-C2962	2022-02-08 15:	40.7.0.79-r7	0	
С	10	Network Camera	Active	1C:C3:16:27:6B:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373	2022-03-11 20:	41.7.0.79	0	
	.1	Network Camera	Active	1C:C3:16:2A:07:33	192.168.69.60	80	255.255.255.0	192.168.69.1	MS-C2967	2022-03-15 14:	45.7.0.80-LP	0	
	.2	Network Camera	Active	1C:C3:16:20:10:43	192.168.69.61	80	255.255.240.0	192.168.69.1	MS-C2963	2022-03-03 13:	43.7.0.79-LP	0	
	.3	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266	2022-03-15 11:	45.8.0.1-AIo	0	с
	.4	Network Camera	Active	1C:C3:16:24:09:D2	192.168.69.96	80	255.255.240.0	192.168.69.1	MS-C2964	2022-01-09 17:	40.7.0.79-r7	0	
	.5	Network Camera	Active	1C:C3:16:24:60:AA	192.168.69.97	80	255.255.255.0	192.168.69.1	MS-C5375	2022-03-14 18:	41.7.0.76-r3	0	
	.6	Network Camera	Active	1C:C3:16:2A:06:91	192.168.69.98	80	255.255.255.0	192.168.69.1	MS-C5367	2022-03-15 09:	45.7.0.79-r30	0	
	.7	Network Camera	Active	1C:C3:16:2A:06:69	192.168.69.116	80	255.255.255.0	192.168.69.1	VMI-2MPX	2022-03-11 21:	45.7.1.79	0	
С	18	Network Camera	Active	1C:C3:16:24:60:F7	192.168.69.125	80	255.255.255.0	192.168.69.1	MS-C2975	2022-03-10 20:	40.7.0.79-r7	Θ	
		🔵 Same IP	Start IP:	192.168.69 .96	Porte 80		letmask: 255.255	5.240.0	Gateway: 192	.168.69 .1	DNS: 8.8	8.8.8	
									() Activate	e 🛃 Export		* Modify	
Opera	ating Ir	formation											
										(Ľ) Save	×) Clear	
												<u> </u>	

Step4: If the selected camera shows "Inactive" in the status bar, click "Activate" to set the password when using it for the first time. You can also set the security questions when activating the camera in case that you forget the password (You can reset the password by answering three security questions correctly). Click 'Save' and it will show that the activation was successful.

Note:

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

		Network	– 🛞 —		— 🌀 Upgrade			¢ − □ ×
) IPC Tools		status MAC 1C:C3:16:24:09:D2 Activation		Port Netmask 80 255.255.255.0 90 955.955.956.0	Gateway 192.168.5.1 100.168.7.1 X 168.5.1 168.7.1	MS-C4472-FIPB MS-C2975-PB	Run-up Time 2018-12-19 17:48:04 2018-12-21 17:43:15 2018-12-24 15:00:51 2018-12-24 17:02:43 2018-12-18	Version 40.7.0.55-pwd- a6 41.7.0.65-pwd- a6 41.7.0.68-a6 40.7.0.68 41.7.0.68-wd- 41.7.0.65-pwd-
NVR Tools	Security Answer 1:	ur father's name? ur father's name?				MS-C5362-EPB MS-C2862-FPB MS-C2963-PB MS-C2972-FPB MS-C5372-FIPB MS-C3772-FIPB MS-C4482-PB	16:10:37 2018-12-21 16:44:30 2018-12-21 16:44:30 2018-12-28 13:38:35 2018-12-20 13:27:14 2018-12-20 13:27:14 2018-06-15 17:10:58 2018-06-15 17:10:58 2018-12-20 16:15:03 2018-02-04	a6 41.7.0.68-a6 40.7.0.67-r21 40.7.0.67-r21 40.7.0.67-r21 41.7.0.67-r2- 41.7.0.65-r44 41.7.0.65-r44 41.7.0.65-r44 a6 41.7.0.65-r44 41.7.0.7.0000000000000000000000000000000
Calculators	Security Answer 2:	ur father's name?		•	255.0	Gateway 192.1	68.5 .1 DN	13 8 8 8 8 ist X Modify
	<u></u>			(4) 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	- 9			🏘 —	
	.` IPC	C Tools						Upgrade			345678 arch here	0
•	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
0	58	Network Camera	Active	1C:C3:16:90:81:5E	192.168.7.92	80	255.255.240.0	192.168.7.1	NC9674-PB	2019-09-24 17:36:18	43.7.1.72	e
	59	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-09-23 14:06:52	41.7.0.72-a5	e
0	60	Network Camera	Active	1C:C3:16:21:00:22	192.168.7.104	80	255.255.240.0	192.168.7.1	MS-C2962-FIPB	2019-09-02 03:22:14	40.7.0.69-r11	6
	61	Network Camera	Active	1C:C3:16:24:09:	192.168.7.114	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-09-30 08:55:39	40.7.0.72	6
C	62	Network Camera	Active	1C:C3:16:23:01:39	192.168.7.124	80	255.255.240.0	192.168.9.2	MS-C2962-FPB	2019-09-26 08:28:26	41.7.0.71-r35	C
C	63	IPCAM	Active	1C:C3:16:21:FA:67	192.168.7.132	80	255.255.255.0	192.168.5.1	MS-C3772-FIPB	2019-09-27	41.7.0.71-r15	e
С	64	Network Camera	Active	1C:C3:16:24:66:A1	192.168.7.161	80	255.255.240.0	192.168.5.1	MS-C2962-FPB	2019-09-26	40.7.0.71-r8	e
C	65	Network Camera	Active	1C:C3:16:22:19:6F	192.168.7.201	80	255.255.240.0	192.168.7.1	MS-C9674-PB	2019-09-17 11:20:43	43.7.0.72-fsh- autotrack-a2	C
С	66	Network Camera	Active	1C:C3:16:22:01:0B	192.168.7.202	4200	255.255.240.0	192.168.7.2	MS-C9674-PB	2019-07-31	42.7.0.67-r1	C
C	67	202大会议室1	Active	1C:C3:16:21:01:10	192.168.7.212	80	255.255.240.0	192.168.7.1	MS-C2972-FPB	2019-09-25	40.7.0.71-r15	e
<u> </u>	93	200十个约定2	Activo	10-02-16-01-00-	100 169 7 014	00	255 255 240 0	100 160 7 1	NG 00070 DD	2019-09-26	40 7 0 71 -15	C
		evice Name: etwor	k Camera	a IP: 192,168.7	.114 Port: 80		Netmask: 25	5.255.240.0	Gateway: 192.	168.7 .1 DI	VS: 8.8.8.8	_
								a) Activate	Export Device Li		1167
								E.		EXPORT Device L	ar 🔿 11100	шу
1	2019	-09-30 09:10:53		[[1C:C3:16:24:09:D2	2] Modi	fy IP:192.168.7.11	3->192.168.7.1	14 successfully.			
										😐) Sav	e 🗙 Clear	r
										0		

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

	Language English ~
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
Milesight	
admin	
Ţ	
Remember me? Forget Password? Login	
Copyright © 2022 Milesight, All Rights Reserved.	

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

Assign An IP Address via Browser

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

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

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

Internet Protocol Version 4 (TCP/IPv4)	Properties ?							
General								
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.								
Obtain an IP address automatically								
 O Use the following IP address: IP address: 	192 . 168 . 1 . 10							
Subnet mask:	255 . 255 . 255 . 0							
Default gateway:	192.168.1.1							
 Obtain DNS server address autom Use the following DNS server address 	·							
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 Setting	s ? X
IP Settings DNS WI	NS
IP addresses	
IP address	Subnet mask
192.168.1.10	255.255.255.0
	Add Edit Remove
Default gateways:	
Gateway	Metric
192.168.1.1	Automatic
	Add Edit Remove
Automatic metric	
	OK Cancel
TCP/IP Address	? <mark>×</mark>
IP address:	192.168.5.61
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" --> "Network" --> "Basic" --> "TCP/IP". The Network Settings page appears (Shown as below Figure);

Mile	esight Network Carr	nera			🕀 English 🗸	💄 admin 🗸
	🖆 Media	>	TCP/IP HTTP	RTSP UPnP DDNS Email FTP		
•	 Network Basic Advanced 	~		Static OHCP		
ø	E Storage		IP Address	192 . 168 . 69 . 66 Test		
©	5 Event	>	IPv4 Subnet Mask	255 . 255 . 255 . 0		
	System	>	IPv4 Default Gateway	192 .168 .69 .1		
			Preferred DNS Server	8 . 8 . 8 . 8		
			IPv6			
			IPv6 Mode	Manual		
			IPv6 Address			
			IPv6 Prefix			
			IPv6 Default Gateway			
			МТО			
			MTU	1500 1200-1500 Bytes		
				Save		

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

Step6: The change of default IP address is completed.

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.

Note:

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

Accessing from Milesight Back-end Software

Accessing from Milesight NVR (Network Video Recorder)

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

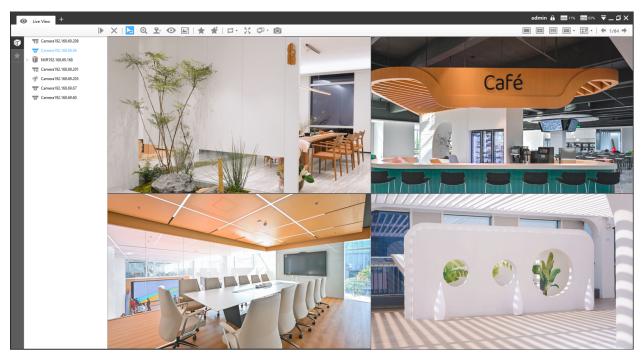
For detailed information about how to use the Milesight NVR Series, please refer to *Milesight NVR User Manual*.



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 https://www.milesight.com/.

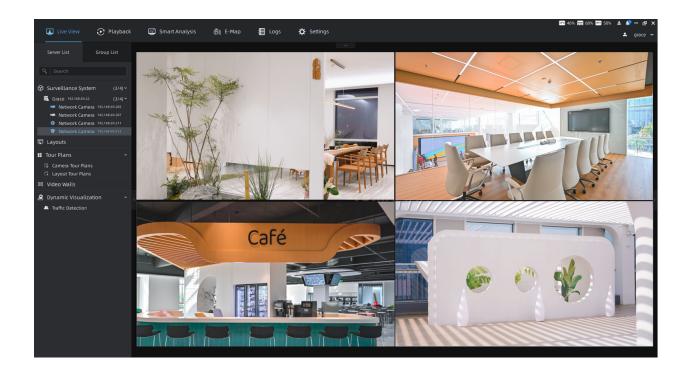
Please install Milesight CMS; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to *Milesight CMS User Manual*.



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.*



3.5 Live View

Live Video

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



Table 71. 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	ැමී Settings	Click to access the configuration page.
4	@	Click to access the LPR Mode.
5	⊕ English ∽	Click to select system language.
6	💄 admin 🗸	Display the user name and click to logout.
7	Primary Stream 🗸	Choose the stream (Primary/Secondary/Tertiary) to show on the current video window.

No.	Parameter	Description
8	Recording	When recording, the icon appears.
9	s Alarm	When an alarm of Motion Detection was triggered, the icon appears.
10	<u>්ර</u> Alarm	Except for the kinds of alarms above, when other alarms were triggered, the icon appears.
11	Stop/Play	Stop/Play live view.
12	Snapshot	Click to capture the current image and save to the configured path. The default path is: C:VMS\+-1\ IMAGE-MANUAL.
13	Start/Stop Recording	Click to Start Recording video and save to the configured path. The default path is C:VMS\+-1\MS_Record. Click again to Stop Recording .
14	€ Digital Zoom	When enabled, you can zoom in a specific area of video image with your mouse wheel.
15	Manual Output	Manually trigger Camera Alarm Output.
16	S AUTO ✓ Window Size	Click to display images at a window size.
17	Full Screen	Click to display images at full-screen.

No.	Parameter	Description
Q		Zoom: Adjust the Zoom length of the lens. Note: Only work when your camera is equipped with motorized lens.
		Focus-/Focus+: Adjust focus 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.
<u>Q</u> .		Focus-/Focus+: Click to focus near or far of the lens. Note: Only work when your camera is equipped with auto focus lens.
	j 🗇 🧿	 Lens Initialization, Auxiliary Focus and Auto Iris. Note: The Auto Iris is turned on by default when your camera is equipped with auto focus lens. The Auto Iris support turn on/off when your camera is equipped with P-Iris.
	* <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
ļģļ		makes colors appear more "pure" while lower one appears more"wash-out".Sharpness: Adjust the Sharpness of image. Higher Sharpnesssharps the pixel boundary and makes the image looks "more clear".
	×0	2D DNR/3D DNR: Adjust the noise reduction level. Default: Restore brightness, contrast and saturation to default settings.

PTZ Mode

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



Operations on Live View Page

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

Table 72. Description of the buttons

No.	Parameter	Description			
Ċ.	PTZ Control	Navigation key is used to control the direction. The rotation key is used for auto-rotation.			
	<u>ه</u>	To adjust the speed of pen/tilt meyoments from 1 to 10			
	PTZ Speed	To adjust the speed of pan/tilt movements, from 1 to 10.			

No.	Parameter	Description	
	Zoom-/Zoom+	Click to zoom in and zoom out.	
	o o	Click to focus near or far of the lens.	
	Focus-/Focus+		
		Lens Initialization, Auxiliary Focus and Auto Iris.	
	6 🗆 😳	Note: The Auto Iris is turned on by default.	
		Lighting For 30s: Click to open/ close the White LED for lighting 30s.	
<u>Q</u>		Note: Only for PTZ Bullet.	
	÷ 🐵 Ü	3D Positioning: Click to enable/ disable 3D positioning.	
		One-touch Patrol: Click to carry out the patrol.	
		Auto Home: Click to enable Auto Home.	
		Dehumidifying: Click to enable the fan working mode.	
		Manual Wiper: Enable the wiper to wipe twice manually.	
	Ŷ	Lighting For 30s: Click to open/ close the White LED for lighting 30s. Note: Only for PTZ Bullet. 3D Positioning: Click to enable/ disable 3D positioning. One-touch Patrol: Click to carry out the patrol. Auto Home: Click to enable Auto Home. Dehumidifying: Click to enable the fan working mode. Manual Wiper: Enable the wiper to wipe twice manually.	
	۲		
	¢	Display the pattern.	

3D Positioning

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

Steps:

- 1. Click ^(SO) 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.

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;

(ç	Ģ	0		Þ	
001	road			8	\times	Ø
002	Prese	et 2				a
003	Prese	et 3				a
004	Prese	et 4				a
005	Prese	et 5				a
006	Prese	et 6				a
007	Prese	et 7				a
800	Prese	et 8				a
009	Prese	et 9				a
010	Prese	et 10				B
011	Prese	et 11				a
012	Prese	et 12				a
013	Prese	et 13				B
014	Prese	et 14				a
015	Prese	et 15				a
016	Prese	et 16				a
017	Prese	st 17				E



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

Step3: Click ^C to save the setting of the current preset;

Step4: Click \times to delete the chosen preset.

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

Calling a preset:

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

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

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

Table 73. Special Presets

Special Preset	Function	Special Preset	Function
33	Auto Flip(Speed Dome only)	43	Path7
34	Go to Zero	Go to Zero 44	
35	Self Check	45	Pattern1
36	Patrol	46	Pattern2
37	Path1	47	Pattern3
38	Path2	48	Pattern4
39	Path3	49	Stop Scan
40	Path4	Path4 50	
41	Path5	Path5 53 Wiper	
42	Path6		

	Q	۲	¢	
032	Pres	et 32		a
033	Auto	Flip		
034	Goto	Zero		Ŵ
035	Self	Check		Ŵ
036	Patro	bl		Ŵ
037	Path	1		Ŵ
038	Path	2		Ŵ
039	Path	3		Ŵ
040	Path	4		Ŵ
041	Path	5		Ŵ
042	Path	6		Ŵ
043	Path	7		Ŵ
044	Path	8		Ŵ
045	Patte	ern1		Ŵ
046	Patte	ern2		d)

Set / Call a patrol

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

Set a patrol:

Step1: In the PTZ control panel, click ⁽⁾ to enter the patrol settings interface;

Step2: Select a patrol number, the setting icon will appear ¹⁰, click it;

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

Path 1			+ × ↑ ↓
Preset			Speed Time
01	1	\sim	30 🗸 15
02	2	\sim	30 🗸 15
03	3	\sim	30 ~ 15
	Save	e	Cancel

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

Table 74. Description of Patrol Settings

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

Step5: Click Save to save the patrol settings.

Note:

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

Call a patrol:

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

0	ç	O	₽
001	Path	1	© ×
002	Path	2	©
003	Path	3	©
004	Path	4	©
005	Path	5	©
006	Path	6	©
007	Path	7	©
800	Path	8	Ô

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 Φ 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 **I** to activate recording the panning, tilting and zooming actions;

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

Step5: Click • to save all the pattern settings.

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

Call a pattern:

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

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

Note:

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

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

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.

Milesight Netwo	ork Camera										🕀 English 🗸	💄 admin 🗸
Primary Stre	sam 🗸 LPR	✓ HTTP	 Least Delay 	~								<u>è</u> 🖨
• •												
												A A A
					Bitrate: 4308ko Frame Rate; 60 Resolution: 192 Video Codec: H Smart Stream: Connections: 1	1264 Off	Recognition Result		ee: Visitor Color: Gray	Plate Color: Yellow Speed: -	Vehicle Type: SUV Direction: Away	
No.	License Plate	Snapshot	Plate Type	Plate Color	Vehicle Type	Vehicle Color	Vehicle Brand	Speed	Direction	Detection Region	Time	Operation
241	KD	10 B	Visitor	Yellow	SUV	Gray	Hyundai		↑ Away	1	2023-11-28 10:52:52	743 Q 🖪
		B										
		-										-
		a										
		A 100										
		A										-
• •	o 🖿 🔍 🎐	<u>×</u>									5 A	UTO 🗸 🔛

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.
- Vehicles without license plates will be detected and captured by the cameras in realtime, and the recognition results will be recorded as "No Plates".

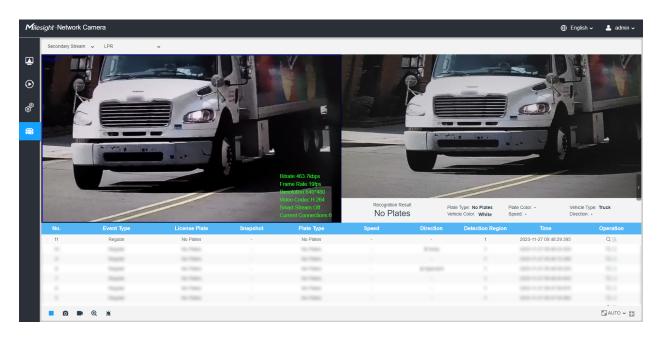


Table 75. Description of the buttons

	Parameter	Description
1	Live Video	Click to access the live view page.
2	Playback	Click to access the playback page.

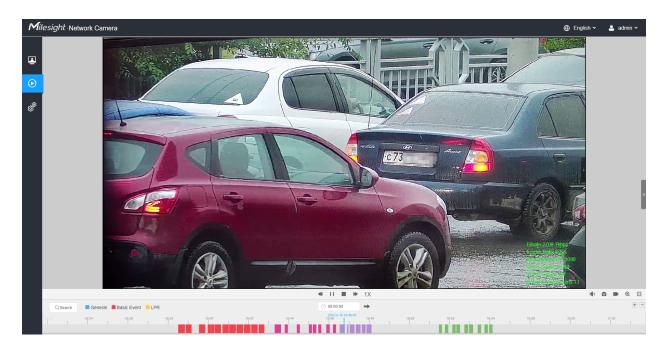
	Parameter	Description
3	Settings	Click to access the configuration page.
4	LPR Mode	Click to access the LPR Mode page.
5	⊕ English ∽	Click to select system language.
6	💄 admin 🗸	Display the user name and click to logout.
7	Primary Stream 🗸 🗸	Choose the Stream (Primary/Secondary/Tertiary) to show on the current video window.
8	Hide Detection Region 🗸	Choose the options (Hide Detection Region/LPR) to hide/ show detection region on the current video window.
9	Stop/Play	Stop/Play live view.
10	f 🔁 Alarm	When the Black List license plates passing by, the icon appears.
11	A larm	When the White List license plates passing by, the icon appears.
12	E Alarm	When the Visitor license plates passing by, the icon appears.
13	Ø Alarm	When an alarm of illegal parking event was triggered, the icon appears.
14	© Snapshot	Click to capture the current image and save to the configured path. The default path is: C:VMS\+-1\ IMAGE-MANUAL.

	Parameter	Description			
15	Start/Stop Recording	Click to Start Recording video and save to the configured path. Click again to stop recording. The default path is C:VMS\ +-1\MS_Record. Click again to Stop Recording .			
16	€ 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	K AUTO ✓ Window Size				
19	Full Screen	Click to display images at full-screen.			
Operation	Q	Click to view selected license plate with a large picture.			
Operation	B	Click to add the selected license plate to White/Black List.			

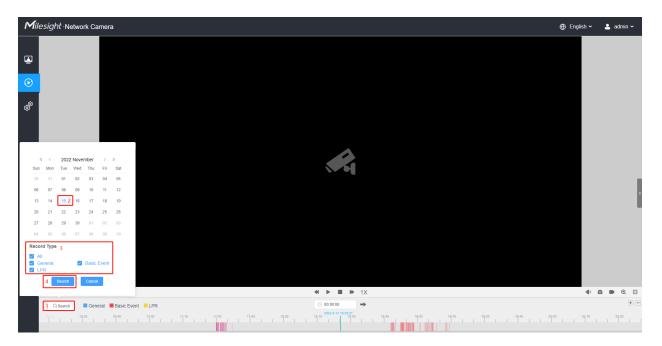
3.6 Playback

Playback

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



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



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.

■ Note: You can also input the time and click → to locate the playback point in the filed. You can also click + = to zoom out/in the progress bar.

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 76. Description of the buttons

No.	Parameter	Description
Q Search	Image: Second	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:
1	Speed Down/Speed Up/Speed	Adjust the speed of video playback. Speed Down: Includes 0.5X and 0.25X for Play. Speed Up: Includes 2X and 4X for Play. Speed: The default playback speed is 1X

No.	Parameter	Description
2	► / 11 Play/Pause	Play/Pause the video.
3	Stop	Stop the video.
4	(00:00:00 Search Time	Select the time that want to locate.
5	Jump	Go To.

Table 77. Description of the buttons

No.	Parameter	Description
1	با ی Mute	Click to enable the audio.
2	© Snapshot	Click to take a snapshot.
3	Start/Stop recording	Click to start/stop recording.
4	Q Digital Zoom	Click to zoom on/off .
5	Full Screen	Full Screen.
6	Time Expand/Narrow	Time narrow/expand.

3.7 Settings

3.7.1 Media

Video

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

Primary Stream Settings

esight Network Camera				🕀 English
📸 Media 🗸 🗸	Primary Stream Sec	condary Stream Tertian	/ 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 ~	4096 ~	kbps
	Smart Stream	Off ~	Off ~	
	Bit Rate Control	CBR ~	CBR 🗸	
	Profile	Main ~	Main 🗸	
	I-frame Interval	50	50	frame(1-120)
		Save		

Secondary Stream Settings

Mill	esight Network Came	era				🕀 English 🗸	💄 admin 🗸
	🖧 Media	×	Primary Stream Se	condary Stream Tertiary	Stream		
	Video Image Audio						
\odot	Network	>	Video Codec	H.264 ~			
ø	E Storage		Frame Size Maximum Frame Rate	640*480 ~	fps		
	5 Event	>	Bit Rate	512 ~			
	System	>	Smart Stream	off ~			
			Bit Rate Control	CBR V			
			Profile	Main ~			
			I-frame Interval	50	frame(1-120)		
				Save			

Tertiary Stream Settings

Mile	esight Netv	work Camera				🕀 English 🗸	💄 admin 🛩
	🖰 Media	v	Primary Stream Se	condary Stream Tertia	ry Stream		
	Video Image		Enable				
\odot	Audio	>	Video Codec	H.264			
ø	Network		Frame Size	640*480			
	Storage		Maximum Frame Rate	25	fps		
	Event	>	Bit Rate	1024	kūps		
	System	>	Smart Stream	off			
			Bit Rate Control	CBR			
			Profile	Main			
			I-frame Interval	50	frame(1-120)		
				Save			

Table 78. 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(3840x2160), 6M(3072x2048), 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 Secondary Stream, it includes 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176. For Tertiary Stream, it include 1920*1080, 1280*720, 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176. Note: The options of Frame Size are variable according to the model.
Maximum Frame Rate	Maximum refresh frame rate of per second and it is variable according to the mode.
Bit Rate	Transmitting bits of data per second, this item is optional only if you select the H.265/ H.264 Set the bitrate to 16~16384 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	CBR: Constant Bitrate. The rate of CBR output is constant. 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.

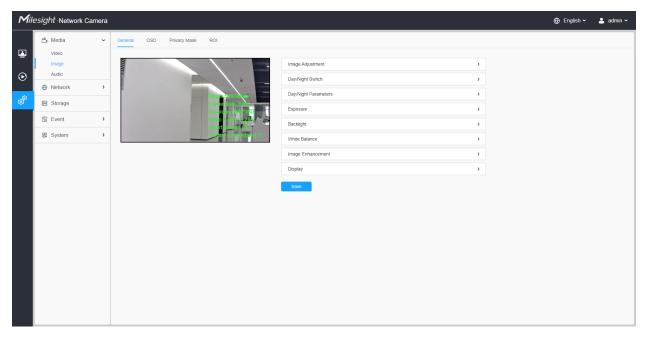
Parameters	Function Introduction			
Profile	The option is for H.264, Main/High/Base can be selected as needed.			
I-frame Interval	Set the I-frame interval to 1~120, 50 for the default. This item is optional only if you select the H.265/H.264. The number must be a multiple of the number of frames.			

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.

<u>General</u>

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



[Image Adjustment]

Mil	esight ·Network C	amera								🕀 English 🗸	💄 admin 🗸
<i>M</i> iil € ©	esight Network C Media Video Image Audio P Network Storage Event E Storage	amera	General	OSD	Piłvacy Mask	v	Image Adjustment Brightness Contrast Saturation Sharpness 2D DNR 3D DNR Cetout Day/Night Switch	50 O 50 O	۲ 	English ~	2 admin ~
						Day/Night Parameters Exposure Backlight		>			
							White Balance		>		
							Display		>		
								Save			

 Table 79. 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	Click this button to restore to the default setting.

[White LED Light]

This option is used to control the White LED Light of the Supplement Light model. There are 4 options including Auto, Always On, Off and Customize are available.

Note:

- Make sure the camera model is a Supplement Light model with the White LED Light.
- White LED Light and IR Light can not be turned on at the same time.

Mile	esight Network Came	era		⊕ English ∽	💄 admin 🗸
Mite	 sight-Network Came Media Video Image Audio Wetwork Storage Event LPR System 	> > > > >	Central OSD Privacy Mask ROI Image Agjustment > Veto Lipit > Ust Customize > Brightness 100 . Day/Night Switch > > Day/Night Rolich > Day/Night Rolich	⊕ English ∨	≗ admin v
			Display 3		

Table 80. Description of the options

Parameters		Function Introduction
	Auto	Select this option to automatically control the White LED Light based on the image. You can customize the sensitivity and delay time. White LED Light Light Control • Auto • Always on • Off • Customize Sensitivity 3 Delay Time 5 Sightness 100
		Note: White LED Light and IR Light can not be turned on at the same time!
Light Control		 Sensitivity: This option is to adjust the sensitivity of the White LED Light, level 1~5 are available, and the default level is 3. The higher the sensitivity, the easier it is to switch the White LED Light status according to image light changes. For example, when the sensitivity is set to level 5, it will turn on the White LED Light when the light in the environment is not very dark. Delay Time: This option is to avoid the White LED Light status changes due to sudden light changes in the environment. The longer the delay time, the longer the response time for the White LED Light to turn on and off. 1~60s are available, and the default option is 5s. For example, here I set the delay time to 5 seconds, if the image suddenly brightens due to a passing car with its headlights on, the white LED light will not be turned off immediately.
	Always On	Select this option to keep the White LED Light always on.
	Off	Select this option to keep the White LED Light always off.

Parameters			Function Introduction
		Select this option to Light.	customize the Start Time and End Time of the White LED
		White LED Light	~
		Light Control	 Auto Always on Off Customize
	Customize	Start Time	18:00
		End Time	(06:00
		Brightness	100O
		Note: White LED Lig	ht and IR Light can not be turned on at the same time!
Brightness		Users can customize level, the brighter th	e the brightness, levels 1-100 are available, the higher the e White LED Light.

[Day/Night Switch]

This option is used to control the Day/Night mode. And we applied **Smart IR II Technology** on the camera. It combines the High Beam and Low Beam, upgrading the IR LEDs technology 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.

Mile	<i>sight</i> ·Network Came	ra		🕀 English 🗸 💄 admin 🧸
	음 Media Video	¥	General OSD Privacy Mask ROI	
•	Image		Image Ad	
• •	Network	>	Bitretherm (as	ISwitch
9	Event	>	- Francisco Mode	Night Day Auto Customize
Parte	🙊 LPR	>	Sman Smarken	e of Nght C 06.00
	ष्ट्र System	>	Day/Nigi Smart I	ht Switch Relocus On V
			Mode	Auto O Customize
				xw IR Level 50 Reset viR Level 50 Reset
			Supplem	nent IR Level 30 Reset
				gft Value Near:100 Far0 Supplement.0 O
			Exposure	
			Backlight	•

There are 4 modes for Day/Night Switch, including Night, Day, Auto and Customize.

Table 81. Description of the options

Parameters		Function Introduction	
	Night	Switch to Night Mode according to the parameters of night mode. Note: There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with the mode.	
	Day	Switch to Day Mode according to the parameters of day mode. Note: There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with the mode.	
Day/Night Switch	Auto	 Select this option to automatically switch the Day/Night Mode based on the image. Day to Night Value: You can set the sensitivity for switching Day Mode to Night Mode. When IR Light Sensor Current Value is lower than this value, it will switch Day Mode to Night Mode. You can click Reset to reset the value to 36. Night to Day Value: This is the sensitivity for switching Night Mode to Day Mode. When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode. You can click Reset to reset the value to 36. Night to Day Value: This is the sensitivity for switching Night Mode to Day Mode. When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode. You can click Reset to reset the value to 82. IR Light Sensor Value: The current value of the IR light sensor. 	
	Customize	 Select this option to customize the Start Time and End Time of Night. Start Time of Night: You can set the time to start the Night Mode. End Time of Night: You can set the time to start the Day Mode. 	
	Day/Night Switch Refocus	With this option enabled, the camera will refocus when switching between day mode and night mode.	

There are 2 modes for Smart IR Mode to achieve the best effect, including Auto and Customize.

Table 82. Description of the buttons

Parameters		Function Introduction
	Auto	Select this option to automatically adjust the strength of the Low-Beams LED, High-Beams LED and IR LED Supplement Light on the basis of the Zoom ratio.
Smart IR Mode	Customize	Select this option to manually adjust the strength of the Low-Beams LED, High-Beams LED and IR LED Supplement Light. You can see the effect of these LEDs in the image in real-time as you adjust the strength, and you can also click Reset to reset the light strength. • 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. • Supplement IR Level: Adjust the strength of IR Supplement Light from 0 to 100. • Supplement IR Level: Adjust the strength of IR Supplement Light from 0 to 100. • IR Strength Value: Show the current value of Low-Beams LED, High-Beams LED and IR LED Supplement Light value. • Is mart IR Mode • Auto • Customize Reset Far View IR Level 70 • Reset Far View IR Level 100 • Reset I Strength Value Near: 70 Far: 70 Supplement 100 • • IR Strength Value Near: 70 Far: 70 Supplement 100 • • IR LED Supplement Light: https://youtu.be/YVTVR88V0Rg • White LED Supplement Light: https://youtu.be/YVTVR88V0Rg

[Day/Night Parameters]

Mill	e <i>sight</i> ∙Network Cam	era										🕀 English 🗸	💄 admin 🗸
۲	සී Media Video	ř	General OSI	D Privacy Mask	ROI								
~	Image Audio		linne			Image Adjustment					>		
\odot		>			*	Day/Night Switch					>		
্রি	Network	<i>`</i>	8		Bitrale SUB Jines	Day/Night Parameters					~		
ø	Storage				Frame Rate (50)- Resolution of (1480)		🔆 Day		🖌 Night				
	S Event	>			Video Citaloc II.264	Exposure Level	5	~	5	~			
	System	>			Current Centechons:17	Minimum Shutter	1/25	~	1/25	~			
						Maximum Shutter	1/100000	~	1/100000	~			
						Limit Gain Level	100		100				
						IR-CUT Latency	55	~	55	×			
						IR-CUT	On	~	Off	×			
						IR LED	or	~	On	Y			
						Color Mode	Color	~	B/W	*			
							Reset		Reset				
						Advanced Schedule Mode	B						
						Exposure					>		
						Backlight					>		
						White Balance		_			>		
							Save						

Table 83. 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.

	nize your special demands for different time, then the Day de will switch automatically according to your settings.
	Edit ×
Sch	chedule Settings Template Settings
B 2 4 6 8 Se	10 12 14 16 18 20 22 24 elect All Clear All Template1 Template3 Template4 Template5
Advanced Schedule Mode	Save Cancel

[Exposure]

Mil	e <i>sight</i> ·Network Cam	era				🕀 English 🗸	💄 admin 🗸
 ✓iii ● ● 	esight -Network Cam ☆ Media Video Image Audio ④ Network ঊ Storage ঊ Event ঊ System	era ~	General OSD Physicy Mask ROI	Image Adjustment DayNight Switch DayNight Parameters Exposure Mode Auto Manual Schedule Backlight White Balance Image Enhancement Display	> > > > > > > > > > > > > >	English ~	🔔 admin 🗸
				Save			

Table 84. Description of the buttons

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

[Backlight]

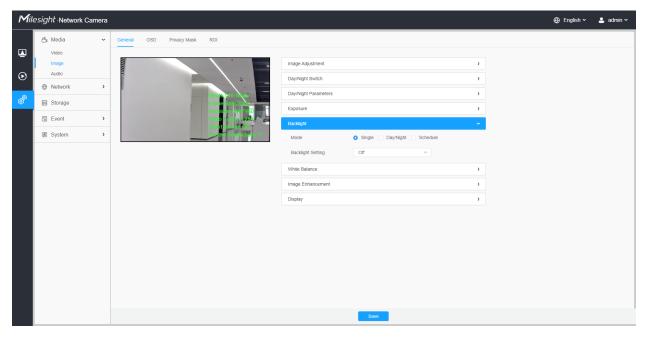


Table 85. Description of the buttons

Parameters	Function Introduction	
	 Single Mode: Set single mode for BLC/WDR/HLC. Note: Do not support WDR and General HLC while Henabled. Day/Night Mode: Support BLC/WDR/HLC on Day Enhance Enhancement Mode separately. Schedule Mode: Set schedule mode for BLC/WDR/HLC. the schedule to enable/disable BLC/WDR/HLC mode. 	cement Mode/Night
Backlight Mode	Edit	× — BLC — WDR ¥ HLC

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]

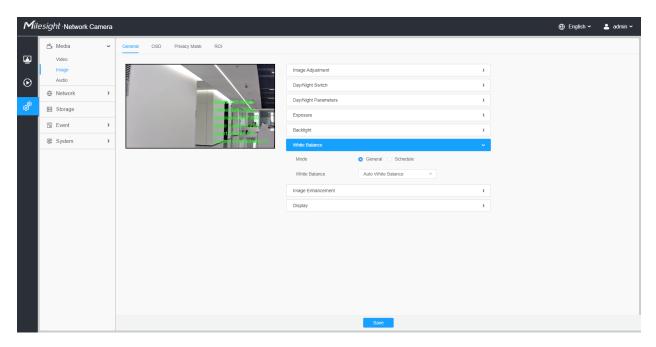
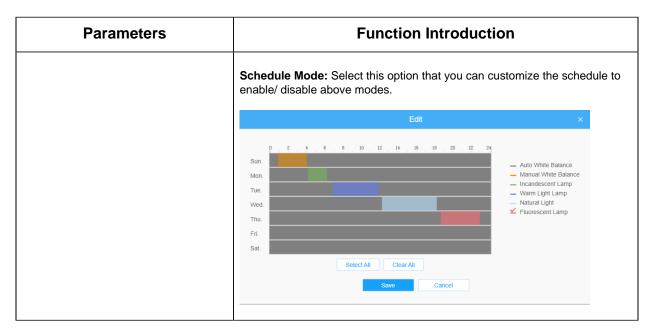


Table 86. Description of the buttons

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



[Image Enhancement]

Mile	esight Network C	amera								🕀 English 🗸	💄 admin 🗸
	≝a Media Video	¥	General OSD	Privacy Mask	ROI						
	Image Audio		(IIIIII)			Image Adjustment			>		
\odot	Network Network	>]		*	Day/Night Switch			>		
ø	E Storage			Bitrative M. Context	Day/Night Parameters			>			
	Event	>	Resolution of 1400 mere	Exposure			>				
					Smart Steerin Off	Backlight			>		
	System	>		Curved to making is 17	Current Contections 17	White Balance			>		
						Image Enhancement			~		
						IR Balance Mode	Off	~			
						Reduce Motion Blur	Off	~			
						Defog Mode	Off	~			
						Digital Image Stabilisation	Off	×			
						Display	>				
							Save				

Table 87. Description of the buttons

Parameters	Function Introduction
	There is an option to turn On/Off the IR LED.
IR Balance Mode	IR Balance Mode would avoid the problem of overexposure and darkness, and the IR LED will change according to the actual illumination.

Parameters	Function Introduction				
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: <u>https://www.youtube.com/watch?v=-vynrami51s</u>				
Defog Mode	 Better image effect in foggy weather. Note: For more details about Milesight Defog, you can click to the YouTube: https://www.youtube.com/watch?v=a9od7Trao4U 				
Digital Image Stabilisation	Decrease the blur and shakiness of the image.				

[Display]

Mile	esight ·Network C	amera									🕀 English 🗸	💄 admin 🗸
	🖧 Media	v	General	OSD	Privacy Mask	ROI						
۲	Video		11			-						
\odot	Audio		linne				Image Adjustment			>		
	Network	>					Day/Night Switch					
ø	E Storage				Bitrate 230.40 ps. France Role 250	Day/Night Parameters Exposure			>			
	5 Event	>				Resolution 640 480 Video Cruise 4.284						
	System	>				Smart Stocky Cit Current Connected s: 17	Backlight >					
						White Balance			>			
							Display			,		
							Power Line Frequency	50Hz	~			
							Outdoor/Indoor Mode	Outdoor	~			
							Corridor Mode	Off	~			
						Image Rotation	Off	~				
								Keep Correct Aspect Ratio	Off	~		
								Save				

Table 88. Description of the buttons

Parameters	Function Introduction
Power Line Frequency	60Hz and 50Hz are available.
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs.

Parameters	Function Introduction
Corridor Mode	There are three options available, you can select one to meet your need. Off: Keep the image in normal direction. Clockwise 90°: Rotate the image by 90° clockwise. Anticlockwise90°: Rotate the image by 90° anticlockwise.
Image Rotation	 There are four options available, you can select one to meet your need. Off: Keep the image in normal direction. Rotating 180°: Upside down the image. Flip Horizontal: Flip the image horizontally. Flip vertical: Flip the image vertically.
Keep Correct Aspect Ratio	With this option enabled, the camera will prevent the image from distortion when resolution ratio is changed.
Zoom Limit	Set the Zoom Limit. Note: Only for the PTZ Network Camera with optical zoom of 20X or above.
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. Note: Only for Pro Dome.

<u>OSD</u>

M ile:	<i>sight</i> ∙Network C	amera	a	🕀 English 🗸	💄 admin 🗸
	省 Media	ř	General OSD Privacy Mask ROI		
	Video Image		Network Camete 19/04/2022 18:58:11 Video Stream Primary Stream V		
\odot	Audio		Regular		
ര	Network Network	>	Fort Size Medium		
ø	E Storage		Font Color		
	S Event	>	Sin n and a strange and a strang		
	System	>			
			Video Title		
			Show Video Title 🔽		
			Network Camera		
			Text Position Top-Left V		
			Zoom Status 5 s v		
			Timestamp		
			Show Timestamp 🛛		
			Date Position Top-Right ~		
			Date Format DDMMMYYYY V		
			Copy to Other Streams 2		
			Save		

Table 89. Description of the buttons

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

Parameters	Function Introduction
Date Position	Date display position on the image.
Date Format	The format of date.
Copy to Other Streams	Copy the settings to other streams.

Privacy Mask

Privacy mask enables to cover certain areas on the live video to prevent certain spots in the surveillance area from being viewed and recorded.

You can 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.

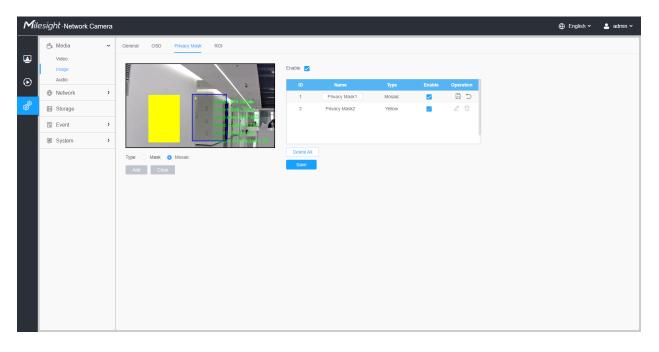


Table 90. Description of the buttons

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	ear the area you drew 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 Purple						
	Ē	Delete the privacy mask area						

<u>R0I</u>

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

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

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

Mile	esight ·Network (Camera								🕀 English 🗸	💄 admin 🛩
	🗂 Media	~	General OS	SD Privacy Mask	ROI						
	Video		Network Came	118	19/04/2022 19:04:07	Enable 🔽					
\odot	Audio		Inte		Video Stream Pr	mary Stream	×				
ক্র	Overwork	>	•		Bitrath 2421 Abies	ID	Name	Enable	Delete		
ø	E Storage				Frame Rate 2410	1	ROI1		Ť		
	5 Event	>			Video Bornel 274	Delete All					
	System	>		-	Current Demonstrates 18	Save					

Table 91. Description of the buttons

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

B Note:

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

Audio

<u>Audio</u>

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.

Mil	lesight Network (Camera				🕀 English 🗸	💄 admin 🗸
	🖧 Media	~	Audio	Audio File Management			
∎ ⊙ ♂	Media Video image Audo Methods Metho	• • •	Audo	Adio File Management	Audio Mode		

Table 92. Description of the buttons

Function Introduction
Check on the checkbox to enable audio feature.
Audio Input/Audio Output/Both Audio Input & Output are optional.
Denoise: 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
Audio Bit Rate: The function is available only for AAC LC, and supports up to 48kbps.
Sample Rate: 8KHz, 16KHz, 32KHz, 44.1KHz, and 48KHz are available.
Input Gain: Input audio gain level, 0-100.
Alarm Level: Alarm will be triggered if voice alarm is enabled and input gained volume is higher than the alarm level, 1-100.
Auto Gain Control: This function is only for H.265 series, improve the quality of audio Output Volume: Adjust volume of output

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.

B 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.

3.7.2 Network

3.7.2.1 Basic

TCP/IP

Mile	esight Network Cam	era			🕀 English 🗸	💄 admin 🗸
	🗂 Media	>	TCP/IP HTTP	RTSP UPnP DDNS Email FTP		
	Network Basic Advanced Storage Event	~ >	IP Address IPv4 Subnet Mask	Static DHCP 192 . 168 . 69 . 66 255 . 255 . 0 . 192 . 168 . 69 . 1		
	B System	>		Manual V		
			IPv6 Prefix IPv6 Default Gateway			
			МТО	1500 1200-1500 Bytes		

Table 93.	Description	of the buttons
-----------	-------------	----------------

Т

Г

Parameters	Function Introduction
	Type: Static Type and DHCP Type are optional for user to get IPv4 address automatically or use fixed IP address.
	IPv4 Address: An address that used to identify a network camera on the network.
ID-4	Bote: The Test button is used to test if the IP is conflicting.
IPv4	IPv4 Subnet Mask: It is used to identify the subnet where the network camera is located.
	IPv4 Default Gateway: The default router address.
	Preferred DNS Server: The DNS Server translates the domain name to IP address.
	IPv6 Mode: Choose different modes for IPv6: Manual/Route Advertisement/ DHCPv6
IPv6	IPv6 Address: IPv6 Address used to identify a network camera on the network
	IPv6 Prefix: Define the prefix length of IPv6 address
	IPv6 Default Gateway: The default router IPv6 address
мти	Maximum Transmission Unit. The default value is 1500. You can customize the value from 1200 to 1500 as needed.
Save	Save the configuration.

<u>HTTP</u>

Milesight Network Camera		🕀 English 🗸	💄 admin 🗸
🖧 Media 🔸	TCPIP HTTP RTSP UPnP DDNS Email FTP		
Network	чттн		
Advanced	Enable 📝		
Storage	Port 80		
Event >	HTTP\$		
System >	Enable Z Port 443		
	Installed Certificate C=US, HulP=IPC Reset Attributes Avarded to: C=US, HulP=IPC Issue: C=US, HulP=IPC Issue: C=US, HulP=IPC Issue: C=US, HulP=IPC Period of Validity: Aug 13 to 57 12 2020 - May 9 10 57 12 2020 - May 9 10 57 12 2020 - Create Create Save		

Table 94. Description of the buttons

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

٦

Table 95. 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

<u>RTSP</u>

Mile	esight ·Network Carr	nera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	TCP/IP HTTP RTSP UP/IP DDNS Email FTP		
₽	Network Basic Advanced	~	RTSP Port 554 ① Playback Port 555 ①		
ø	🗄 Storage		RTP Packet Better Compatibility		
N	🗟 Event	>	Multicast Group Address 239 . 6 . 6 . 6		
	I System	>	QoS DSCP(0-63) 0		

Table 96. 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. Note: 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.

Parameters	Function Introduction
QoS DSCP	The valid value range of the DSCP is 0-63.
Save	Save the configuration.

Table 97. 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.

<u>UPnP</u>

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.

Mile	esight Networ	k Camera				
	🖧 Media	>	TCP/IP HTTP	RTSP UPnP	DDNS Email FTP	
☑☑	Network Basic Advanced	~	Enable Port Mapping			
	E Storage		Enable Port Mapping			
Ø	5 Event	>	Name	UPnP		
	I System	>	Туре	Auto	~	
			Protocol Name	External Port	Internal Port	Status
			HTTP	21202	80	Invalid
			HTTPS	22202	443	Invalid
			RTSP	23202	554	Invalid
			Playback	25202	555	Invalid
			Save			

Table 98. Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the UPnP function.
Enable Port Mapping	Check the checkbox to enable the Port Mapping
Name	The name of the device detected online can be edited
Туре	 Auto: Automatically obtain the corresponding HTTP and RTSP port, without any settings Manual: Need to manually set the appropriate HTTP port and RTSP Port. When choose Manual, you can customize the value of the port number by yourself
Save	Save the configuration.

<u>DDNS</u>

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

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

sight Network Cam	era		🕀 English 🗸	💄 admin 🗸
🖧 Media	>	TCP/IP HTTP RTSP UPnP DDNS Email FTP		
Network Basic Advanced	~	Enable 🗾 🕐 Provider ddns.milesight.com 🗸		
E Storage		External HTTP Port 80		
5 Event	>	External RTSP Port 554		
I System	>	External Playback Port 555		
		Status —		
		DDNS URL http://iddns.milesight.com/2AB1E6		
		Save		
	Media Network Basic Advanced Slorage Storage Exent	▲ Media > ⊕ Network ~ Basic Advanced ▲ Storage E Event >	P Network Faable Basic Advanced Advanced Provider S Strage External HTP Por S Strage External HTP Por S Strage External Payback Por S Strage External Payback Por S Strage External Payback Por DNS URL htp://dms.miesgit.com/2AB1E6	Image: Constraint of the state of

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 99.
 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.					

Parameters	Function Introduction
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.

<u>Email</u>

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

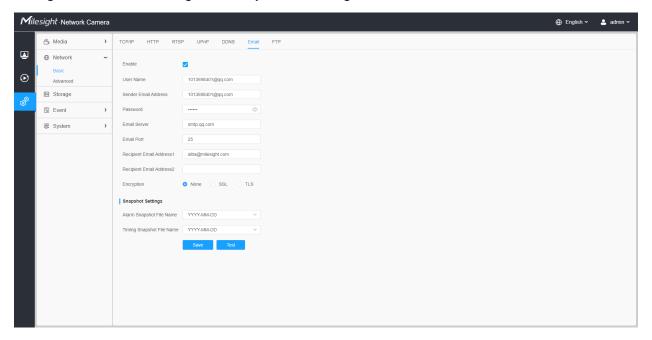


Table 100. Description of the buttons

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.

Parameters	Function Introduction					
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.					
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 && - &

<u>FTP</u>

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

Network Basc Advanced Storage System System	TCP/IP HTTP R FTP Server Settings FTP Type Server Address Server Port User Name Password FTP over SSL/TLS(FTPS) FTP Storage Settings	TSP UPnP DDNS Email FTP ~ 192.168.70.97 - 21 - alba - @
Basic Advanced	FTP Type Server Address Server Port User Name Password FTP over SSL/TLS(FTPS)	192 168 70 97 21 alba
E Event >	Server Port User Name Password FTP over SSU/TLS(FTPS)	21 alba
System >	Password FTP over SSL/TLS(FTPS)	©
	FTP over SSL/TLS(FTPS)	
	Storage Path Alarm Action File Name	Root Directory ~ Default(YYYY-MM-DD) ~
	Timing Snapshot File Nan	e YYYY-MM-DD ~ 0 s ~
		Save Test

Table 101. Description of the buttons

Parai	neters	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.			
	ſest	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.

3.7.2.2 Advanced

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.

Mill	esight ·Network Camer	a	🕀 English 🗸	💄 admin 🗸
	🖆 Media 🔅	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
۲	Network	Enable		
\odot	Basic Advanced	VLAN ID(1~4094) 1		
¢®	🖹 Storage	VLAN IP		
	Event 2	VLAN Netmask		
	e loT 3	VLAN Gateway		
	I System	Save		

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

<u>PPPoE</u>

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.

Mill	e <i>sight</i> ∙Network Carr	nera								🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	VLAN PPPOE	SNMP	802.1x	Bonjour	RTMP	SIP	More		
	Metwork	~	Enable								
\odot	Basic Advanced		Dynamic IP								
o [®]	🗄 Storage		User Name								
Į.	Event	>	Password								
	€ IoT	>	Confirm Password								
	System	>		Save							

Note:

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

<u>SNMP</u>

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 102. 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

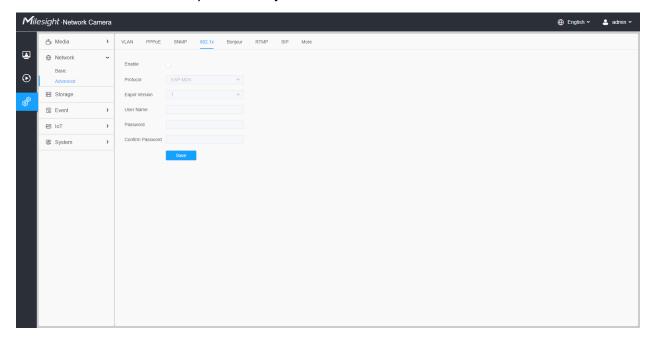
Parameters	Function Introduction
	Enable SNMP v3: Provide encryption and the HTTPS protocol must be enabled.
	Read Security Name: Input the name of Read Security Community.
SNMP v3	Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv).
	Write Security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

<u>802.1x</u>

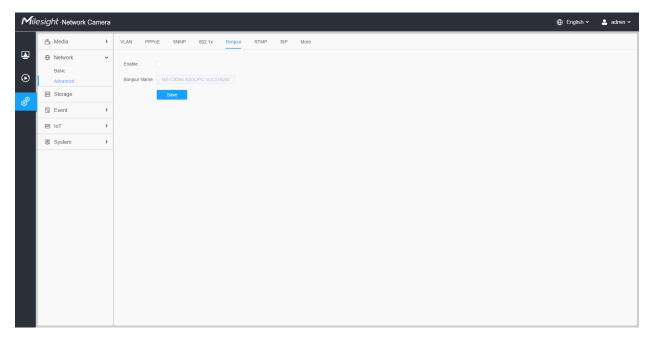
The IEEE 802.1X standard is supported by the network cameras, and when the feature is enabled, the camera data is secured and user authentication is needed when connecting the camera to the network protected by the IEEE 802.1X.



<u>Bonjour</u>

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.



<u>RTMP</u>

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.

Mill	esight Network Camer	a	🕀 English 🗸	💄 admin 🗸
	🐣 Media	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
₽	Network Basic Advanced	Enable Stream Type Primary Stream V		
ø	🖴 Storage	Server Address		
1	5 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.

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 Network cameras can be configured as SIP endpoint to call out when alarm triggered; or allow permitted number to call in to check the video if the video IP phone is used.

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

Mill	lesight ·Network C	Camera			🕀 English 🗸
	🖧 Media	>	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
⊒ ⊙	Network Basic Advanced	~	SIP Settings		
	E Storage		White List		
ø	5 Event	>	Save		
	ন্থ 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]

Mile	<i>sight</i> ∙Network Ca	amera					
	🖧 Media	>	VLAN PPPoE SNMP	802.1x Bonjour	RTM	P SIP More	
۲	Network	~	SIP Settings				~
\odot	Basic Advanced			Ō			
	🗄 Storage		Register Mode	Enable	~		
¢ [®]	5 Event	>	User ID	500			
	e loT	>	User Name	sipclient			
	System	>	Password				
			Server Address				
			Server Port	5060			
			Connection Protocol Video Stream	UDP Primary Stream	~		
			Enable Audio in SIP Call				
						s (0 means no limitation.	
			Status	Unregistered			
			Alarm Phone List				>
			White List				>
			Save				

Table 103. 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	amera 🕀 En	nglish 🛩 🐣 admin 🛩
	සී Media	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More	
₽	 Network Basic Advanced 	SIP Settings	
o [®]	E Storage	SIP Phone Phone Type Remark Name Duration Delete	
*	5 Event	> 1837659006 6 Phone Number 00.00-23.59	
	🖉 System	Add Delete All	
		White List	

Table 104. 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]

ile	e <i>sight</i> ·Network C	amera					
	🖧 Media	>	VLAN PPPoE	SNMP	802.1x Bonjour I	RTMP SIP More	
	Network Network	~	SIP Settings				>
\odot	Basic Advanced		Alarm Phone Lis	st			
ø	E Storage		White List				
	5 Event	>	Enable White Li	ist Number Filter			
	I System	>	SIP F	Phone	Phone Type	Delete	
					No Data		
			Add				
			Save				

Table 105. 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.					

More

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

Mile	esight ·Network Came	a	🕀 English 🗸	💄 admin 🗸
	🖧 Media	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
▲ ⊙	 Network Basic Advanced 	Push Message Settings Enable		
ø	🗄 Storage	Push Event Type Edit		
	5 Event	ONVIF Setting		
	⊜ loT	Enable 🔽		
	System	Save		

Table 106. Description of the buttons

Parameters	Function Introduction							
	Enable: Enable/disable the Push Message function							
	Push Event Type: You can click Edit 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							
	✓ Motion Detection ✓ Audio Alarm ✓ External Input							
	LPR Black LPR White LPR Visitor							
	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 connect by third-party software through ONVIF protocols. Generally, the default status ONVIF function is enabled.							

3.7.3 Storage

Storage Management

Mile	esight Network Came	ra											🕀 English 🗸	💄 admin 🗸
	🖧 Media	~	Storage Man	ge Management Record Settings Snapshot Settings Explorer										
•	Video Image		SD Card	Card 20.460/59.460 Format										
\odot	Audio		3											
	Wetwork	>	NAS											
ø	E Storage		No	Server Address	Directory	Mounting Type	Total	Free	User Name	Status	Operation			
	5 Event	>				No	Data							
	System	>	Add											

Before you start:

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

Table 107. Description of the buttons

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

Parameters	Function Introduction
	The network disk should be available within the network and properly configured to store the recorded files, etc. NAS (Network-Attached Storage), connecting the storage devices to the existing network, provides data and files services.
	Add ×
	Server Address*
	Directory* Mounting Type NFS
NAS	Save Cancel
	Server Address: IP address of NAS server.
	Directory: Input the NAS directory, e.g. "/path".
	Mounting Type: NFS and SMB/CIFS are available. And you can set the user name and password to guarantee the security if SMB/CIFS is selected.
	Note:
	 Up to 5 NAS disks can be connected to the camera. 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>.

Record Settings

Milesight Network	Camera		🕀 English 🗸	💄 admin 🗸
🖧 Media	>	Storage Management Record Settings Snapshot Settings Explorer		
Network Basic Advanced	~	Storage Settings		
🔊 🗄 Storage		Pre Second 0 seconds ~		
Event	>	Schedule Settings		
C System	>	0 2 4 6 0 10 12 14 16 10 20 20 21 Man 1 <		

Table 108. 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.

Snapshot Settings

Mill	e <i>sight</i> ·Network Camera		🕀 English 🗸	💄 admin 🗸
	🖆 Media 🔹 👌	Storage Management Record Settings Snapshot Settings Explorer		
≞	Network Network	Snapshot Settings		
\odot	😫 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		

Table 109. Description of the buttons

Parameters	Function Introduction
Snapshot Settings	 Enable Timing Snapshot: Check the checkbox to enable the Timing Snapshot function Interval: Set the snapshots interval, input the number and choose the unit(millisecond, second, minute, hour, day). Save Into Storage: Save the snapshots into SD card or NAS, and choose the file name to add time suffix or overwrite the base file name. Save Into NAS: Save the snapshots into NAS, and choose the file name to add time suffix or overwrite the base file name. Upload Via FTP: Upload the snapshots via FTP. Upload Via Email: Upload the snapshots via Email. 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. HTTP Post: Upload the snapshots via HTTP Post. Support uploading the snapshots to
Schedule Settings	specified HTTP URL. Edit record schedule as needed. Intuitive scheduling by drawing the time bar directly. Schedule Settings Sun. Mon. Tue. Wed. Thu. Fri. Sat. Select All Clear All
Schedule Settings	Copy To × Image: Copy To × Sun. Mon. Tue. Wed. Thu. Fri. Sat. Save
	Select All Select all schedule.

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

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.).

Media Storage Management Record Settings Support Network Nam Type Record Storage S	Sub Type Al Start Time C 2022/03/25 00 00.00 End Time C 2022/03/25 23 99.99 Start Is bame Start Time C 2022/03/25 19/27.35 Timing Start 0025/19/2231 2002/03/25 19/27.35 Timing 260 64/4 0025/19/2231 2002/03/25 19/27.35 Timing 261 61/4 0025/19/234 2002/03/25 19/27.35 2002/03/25 19/27.45 2002/03/25 19/27.45 0025/19/234 2002/03/25 19/27.45 2002/03/25 19/27.45 2002/03/25 19/27.45 2002/03/25 19/27.45 0025/19/234 2002/03/25 19/27.44 2002/03/25 19/27.44 2002/03/25 19/27.45 201/47.44 0025/19/234 2002/03/25 19/27.44 2002/03/25 19/27.45 Timing 261.64/4 0025/19/234 2002/03/25 19/27.44 2002/03/25 19/27.45 Timing 261.64/4 0025/19/244 2002/03/25 19/27.44 2002/03/25 19/27.45 Timing 261.64/4 0025/19/244 2002/03/25 19/27.45 2002/03/25 19/27.45 2002/03/25 19/27.45 2000/4 0025/19/244 2002/03/25 19/27.45 2002/03/25 19/27.45 2002/03/25 19/27.45	lesight Network	Camera						🕀 English 🗸 💄 admin
File Name Start Time C 2022/03/25 00 00 0 End Time C 2022/03/25 33 59 59 End Time C 2022/03/25 33 59 59 Storage File Name Start Time C 2022/03/25 00 00 0 End Time C 2022/03/25 33 59 59 Start Start Start Time C 2022/03/25 33 59 59 Start Start Start Time C 2022/03/25 33 59 59 Start Start Start Time C 2022/03/25 33 59 59 Start Start Start Time C 2022/03/25 33 59 59 Start Start Start Start Start Start End Time C 2022/03/25 33 59 59 Start S	Name Start Time End Time Type Size 00251592231 2022-03-25 19 22 31 2022-03-25 19 27.35 Timing 250 54M 00251592735 2022-03-25 19 27.35 2022-03-25 19 27.35 2022-03-25 19 27.44 Timing 250 54M 00251592740 2022-03-25 19 37.44 2022-03-25 19 37.44 2022-03-25 19 37.44 Timing 251.56M 00251592741 2022-03-25 19 47.44 2022-03-25 19 47.44 Timing 251.56M 00251592744 2022-03-25 19 47.54 2022-03-25 19 47.54 Timing 251.56M 00251592745 2022-03-25 19 52.58 Timing 250.58M 250.58M 0025159264 2022-03-25 19 52.58 Timing 250.58M 0025159264 2022-03-25 19 56.58 Timing 250.58M 0025159264 2022-03-25 19 58.02 Timing 250.58M 00251595802 2022-03-25 19 58.02 Timing 250.58M	📇 Media	>	Storage Manage	ment Record Settings Sna	apshot Settings Explorer			
E Storage File Name Start Time End Time Type Size I E Vent 120220325192231 2022-03-25 19.22.31 2022-03-25 19.27.35 Timing 250 64M I E System 120220325192235 2022-03-25 19.27.35 2022-03-25 19.37.44 Timing 250 54M I 120220325193240 2022-03-25 19.37.44 2022-03-25 19.37.44 Timing 250 54M I 120220325193744 2022-03-25 19.37.44 2022-03-25 19.37.44 Timing 251 54M I 120220325194744 2022-03-25 19.47.54 Timing 251 54M I 120220325194744 2022-03-25 19.47.54 Timing 251 54M I 120220325194754 2022-03-25 19.47.54 Timing 251 54M	klame Start Time End Time Type Size 00251592231 2022.03.25 19.22.31 2020.03.25 19.27.35 71ming 250 64M 00251592735 2022.03.25 19.27.35 2022.03.25 19.37.44 71ming 251 61M 00251592745 2022.03.25 19.37.44 2022.03.25 19.37.44 71ming 251 63M 00251592745 2022.03.25 19.37.44 2022.03.25 19.47.49 71ming 251 63M 00251592745 2022.03.25 19.47.54 2022.03.25 19.47.54 71ming 250 69M 0025159258 2022.03.25 19.87.54 2022.03.25 19.85.80 71ming 250 69M 0025159258 2022.03.25 19.85.80 71ming 250 69M 0025159258 2022.03.25 19.85.80 71ming 250 69M 0025159258 2022.03.25 19.85.80 71ming 250 69M 00251595802 2022.03.25 19.85.02 71ming 250 69M	Network Network	>	Main Turno	Rub Tur	All Start Time (2022/02/25 00:00:00 End Time ① 2022/02/2	5 22 50 50	Control
Event 120220325192231 2022-03-25 19.22.31 2022-03-25 19.27.35 Timing 200.64M © System 120220325192735 2022-03-25 19.27.35 2022-03-25 19.32.40 Timing 251 61M 120220325193740 2022-03-25 19.32.40 2022-03-25 19.37.44 Timing 250.92M 120220325193744 2022-03-25 19.37.44 2022-03-25 19.37.44 2022-03-25 19.47.49 Timing 251.94M 120220325193744 2022-03-25 19.47.44 2022-03-25 19.47.54 2022-03-25 19.47.54 Timing 251.94M 120220325194754 2022-03-25 19.47.54 2022-03-25 19.47.54 Timing 251.94M	D025192231 2022-03-25 19 22.31 2022-03-25 19 27.35 Timing 250-64M D025192231 2022-03-25 19 27.35 2022-03-25 19 32.40 Timing 251 61M D025193240 2022-03-25 19 32.40 2022-03-25 19 37.44 Timing 250 52M D025193744 2022-03-25 19 42.49 2022-03-25 19 42.49 Timing 251 36M D025193744 2022-03-25 19 42.49 2022-03-25 19 42.49 Timing 251 36M D025194249 2022-03-25 19 42.49 2022-03-25 19 47.54 Timing 250 89M D025194754 2022-03-25 19 47.54 2022-03-25 19 47.54 2020 80M 250 89M D025194269 2022-03-25 19 47.54 2022-03-25 19 58.02 Timing 250 89M D025194269 2022-03-25 19 58.02 Timing 250 69M 250 69M D025195250 2022-03-25 19 58.02 Timing 250 69M 250 69M D025195250 2022-03-25 19 58.02 Timing 250 69M 250 69	E Storage		main type				5 23.53.53	Search
Bit Not 2020/05/25/14 Concentration Content Con	0025192735 02024.03.25 19.27.05 02024.03.25 19.32.40 Timing 251.61M 0025193240 02024.03.25 19.32.40 02024.03.25 19.37.44 Timing 259.92M 0025193744 02024.03.25 19.37.44 02024.03.25 19.42.49 Timing 251.61M 0025193744 02024.03.25 19.42.49 02024.03.25 19.42.49 Timing 251.64M 0025194249 02024.03.25 19.47.54 02024.03.25 19.47.54 02024.03.25 19.62.60 Timing 250.98M 0025194256 02024.03.25 19.52.56 Timing 250.98M 250.98M 250.98M 0025195256 02024.03.25 19.56.02 Timing 250.69M 250.69M 0025195250 02024.03.25 19.56.02 Timing 250.69M 250.69M 0025195250 02024.03.25 19.56.02 Timing 250.69M 250.69M<	S Event	>						
120220325193240 2022-03-25 19.32.40 2022-03-25 19.37.44 Timing 259.92M 120220325193744 2022-03-25 19.47.44 2022-03-25 19.47.49 Timing 251.56M 120220325194249 2022-03-25 19.42.49 2022-03-25 19.47.54 Timing 251.44M 120220325194754 2022-03-25 19.47.54 2022-03-25 19.57.58 Timing 250.89M	000251593240 2022.03.25 19.32.40 2022.03.25 19.37.44 Timing 250.92/M 00025159744 2022.03.25 19.37.44 2022.03.25 19.42.49 Timing 251.96M 00025159744 2022.03.25 19.42.49 2002.03.25 19.47.54 Timing 251.44M 000251594754 2022.03.25 19.47.54 2002.03.25 19.52.56 Timing 250.89M 00025159526 2022.03.25 19.52.56 2002.03.25 19.56.02 Timing 250.69M 00025159526 2022.03.25 19.56.02 Timing 250.69M 00025159526 2022.03.25 19.56.02 Timing 250.69M 00025159526 2022.03.25 19.56.02 Timing 250.69M								
120220325193744 2022-03-25 19.37.44 2022-03-25 19.42.49 Timing 251.90A 120220325194249 2022-03-25 19.42.49 2022-03-25 19.47.54 Timing 251.44M 120220325194754 2022-03-25 19.47.54 2022-03-25 19.57.54 Timing 250.89M	0025159744 0202.03.25 19.37.44 2022.03.25 19.42.49 Timing 251.98/A 0025164249 0202.03.25 19.42.49 0202.03.25 19.47.54 Timing 251.44A 0025164754 0202.03.25 19.47.54 0202.03.25 19.47.54 0200.09 250.09M 0025164754 0202.03.25 19.47.54 0202.03.25 19.52.58 Timing 250.09M 0025169526 0202.03.25 19.35.08 0202.03.25 19.35.00 Timing 250.69M 0025169526 0202.03.25 19.36.02 0202.03.25 19.36.02 Timing 250.69M 0025169502 0202.03.25 19.56.02 0202.03.25 19.36.02 Timing 251.65M	l System	>						
120220325194249 2022-03-25 19.42.49 2022-03-25 19.47.54 Timing 251.44M 120220325194754 2022-03-25 19.47.54 2022-03-25 19.52.58 Timing 250.89M	0325194249 0202-03-25 19 42.49 2022-03-25 19 47.54 Timing 251.44M 0325194754 0202-03-25 19 47.54 0202-03-25 19 52.58 Timing 250.89M 0325195256 0202-03-25 19 52.58 020-03-25 19 52.58 Timing 250.69M 0325195256 0202-03-25 19 58.02 Timing 250.69M 0325195802 0202-03-25 19 58.02 Timing 251.68M								
120220325194754 2022-03-25 19.47.54 2022-03-25 19.52.58 Timing 250.89M	00225194754 2022.03.25 19.47.54 2022.03.25 19.52.58 Time 250.89M 0025195256 2022.03.25 19.52.58 2022.03.25 19.56.02 Timeng 250.69M 0025195260 2022.03.25 19.56.02 Timeng 250.69M 0025195802 2022.03.25 19.58.02 Timeng 250.69M								
	J0325195256 2022.03.25 19.52.58 2022.03.25 19.58.02 Timing 250.69M 0325195802 2022.03.25 19.58.02 2022.03.25 19.58.02 2022.03.25 19.58.02 Timing 251.65M								
120220325195258 2022-03-25 19:52:58 2022-03-25 19:58:02 Timing 250.69M	0225195802 2022-03-25 19:58:02 2022-03-25 20:03:08 Timing 251:65M								
	9925200306 2022-03-25 20 03 08 2022-03-25 20 07 37 Timing 221.72M					2022-03-25 19:58:02	2022-03-25 20:03:08		
120220325200308 2022-03-25 20 03.08 2022-03-25 20 07.37 Timing 221.72M					120220325200308	2022-03-25 20:03:08	2022-03-25 20:07:37	Timing	221.72M
								Total 9 30/page	 Go to 1
Total 9 30/page 🗸 < 1 > Go to	Total 9 30:page ~ < <mark>1</mark> > Ge to 1								

3.7.4 Event

Basic Event

Motion Detection

Mile:	sight ·Network Came	ra							⊕ English ∽	💄 admin 🗸
	🖧 Media	>	Motion Detection	Audio Alarm	External Input	External Output	Exception			
	Network	>					Enable Detection			
\odot	😤 Storage			二部 総称語 三二二			Enable Motion Analysis			
	Event	~				2kthoś	Basic Settings	>		
¢	Basic Event				fante Rate	7fps	Schedule Settings	,		
a	S PTZ						Alarm Action	>		
	lPR	>				hotligns 13	Save			
	System	>	Select All	Clear All						

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

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 110. 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

Table 111. Description of the buttons

[Schedule Settings]

Step5: Set motion detection schedule;

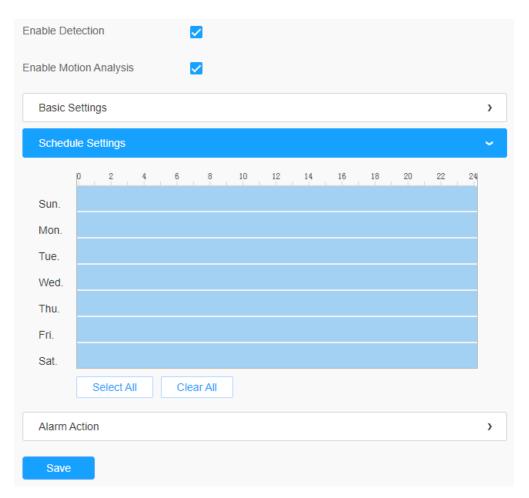


Table 112. Description of the buttons

Parameters	Function Introduction
Copy To X 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 113. Description of the buttons

Parameters	Function Introduction						
Record	Duration: Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available.						
Ketoru	Linkage: 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.						
	Linkage: 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	Note: Please enable the Audio Speaker.						
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.						
HTTP Notification	Support to pop up the alarm news to specified HTTP URL. Note: Three HTTP notifications at most can be added to the same event. HTTP Notification supports Basic & Digest authentication						
White LED	When the alarm triggered, White LED will turn on to warn the detected objects. Image: Note: Only for PTZ Bullet.						
	When the motion alarm triggered, PTZ Motion allows the camera move the lens to the motion triggered position and zoom in.						
PTZ Motion	Note: 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)	Note: Only for PTZ series.						

<u>Audio Alarm</u>

Check the check box to enable the Audio Alarm function.

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

<i>ight</i> ·Network Camer	ra									🕀 English 🗸	💄 admin 🗸
📸 Media	>	Motion Detection	Audio Alarm	External Input	External Output	Exception					
Network	>	Market B.				Enable Audio Alarm		(Please enable the Audio Mic.)			
🖶 Storage			i Fill			Basic Settings			~		
5 Event	~	2				Alarm Threshold		25			
Basic Event			1	A Resolution	-/fps	Audio Sample Value		0 0			
	,	4		Video Code	en et ande en cont	Schedule Settings			>		
			and the second sec	Current Co	moctors 13	Alarm Action			>		
						Save					
	 △ Media → Network ➢ Storage ☑ Event 	Network Network Storage Storage Event Basic Event Network PTZ LPR Network	th Media th Network th Network th Storage th Event th PTZ th LFR	☆ Media > Motion Detection Audio Alam ⊕ Network > ⊠ Storage > ⊠ Event > Basic Event > > PTZ > ⊕ LPR >	Media Motion Detection Audo Alam External Input Network Audo Alam External Input Storage Basic Event Audo Alam Basic Event Audo Alam Event PTZ Audo Alam Event LPR Audo Alam Event	Media Motion Detection Autio Altam External Input External Output Network > Storage External - Basic Event - PTZ - LFR >	Modia Motion Detection Audo Alam External Input External Output Exception Motion Detection Audo Alam External Input External Output Exception Notron Detection Notron Detection Audo Alam External Input External Output Exception Sources Sources Input Input External Output Exception Sources Exception Input Input External Output Exception Sources Exception Input Input Exception Input Exception Sources Exception Input Input Exception Input Exception Sources Exception Input Exception Input Exception Sources Exception Exception Exception Exception Input Sources Exception Exception Exception Exception Exception Sources Exception Exception Exception Exception Exception Sources Exception Exception Exception Exception Exception	Media Motion Detection Audo Atam External Input External Output Exception Network Network Storage E Event Basic Event Netron PTZ LPR System	Image: Source of the section of the sectin of the section of the section of the secti	¹ Mola	¹ Mola

[Basic Settings]

Table 114. 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 86)</u> for the meanings of the items, here will not repeat again.

[Alarm Action]

Refer to the table <u>Table 4 (page 87)</u> for the meanings of the items, here will not repeat again.

External Input

Mile:	sight Network Camer	a		🕀 English 🗸	💄 admin 🗸
	📸 Media	>	Motion Detection Audio Alarm External Input External Output Exception		
₽	Wetwork	>	Enable External Input		
\odot	E Storage		Schedule Settings		
	5 Event	~	Alam Action		
ø	Basic Event		Alaminada		
	🔊 PTZ		Save		
	📾 LPR	>			
	🐼 System	>			

Refer to the table <u>Table 3 (page 86)</u> for the meanings of the items, here will not repeat again.

External Output

Miles	<i>sight</i> ·Network Camera	a \oplus	English 🗸	💄 admin 🗸
	🖧 Media	Motion Detection Audio Alarm External Input External Cutput Exception		
	Network	> Normal Status Settings		
\odot	E Storage	External Output Open O Grounded		
	3 Event	Current Status Grounded		
ø	Basic Event			
_	🔊 PTZ	Manual External Output		
a	📾 LPR	Manual Output Start		
	😰 System	> External Output Action Time Manual Control		
		Save		

[Normal Status Settings]

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

[Manual External Output]

You can set the manual external output.

Table 115. 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.

Exception

esight ·Network Camera
සී Media >
Network >
🚍 Storage
🗟 Event 🗸
Basic Event
🔊 PTZ
📾 LPR 🔹 🕨
😨 System 🔹 🔉

Table 116. 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 86)</u> for the meanings of the items, here will not repeat again.

PTZ

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

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

<u>Basic</u>

Mill	e <i>sight</i> ·Network Cam	era										🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Ba	sic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
(Network Network	>											
\odot	E Storage			Basic PTZ OSD				>					
	5 Event	>		Others				>					
ø	🔊 PTZ												
a	📾 LPR	>		Save									
	I System	>											

[Basic]

Mile	sight Network Ca	amera		🕀 English 🗸	💄 admin 🗸
	🗂 Media	>	Basic Auto Home PTZ Limits Initial Position Privacy Mask Scheduled Tasks Auto Tracking Config Clear Status		
•	Network	>	Rain v		
•	E Storage		Basic ~		
	la Event	>	Preset Freezing		
9	🔊 PTZ		Speed		
	📾 LPR	>	Preset Speed 5 V		
	System	>	Patrol		
			Patrol Recovery Time 10 s (5-720s) Pocus Focus Focus Mode Semi-Auto Minimum Focus Distance 1 m V PTZ OSD V		
			Others >		

Table 117. 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.
	Preset Speed: 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	Patrol Recovery Time : Set time for Patrol Recovering, which is between 5 to 720 seconds.
	Focus Mode: Three focus modes are available: Auto/ Semi-Auto/ Manual.
Focus	Minimum Focus Distance : Set the minimum focus distance to adjust the step length of each focus. 1 meter, 1.5 meters, 3 meters, 6 meters, 10 meters and 20 meters are available. The default minimum focus distance is 1 meter.

[PTZ OSD]

Mile	esight 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 PTZ OSD				>					
	5 Event	>	Zoom Status	Always Open	~		× .					
ø	🔊 PTZ		Pan & Tilt Status	Always Open								
	📾 LPR	>	Preset Status	Always Open	~							
	图 System	>	Patrol Status	Always Open	~							
			Pattern Status	Always Open	~							
			Auto Scan Status	Always Open	~							
			Others				>					
								Sa	ve			

Table 118. 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.						

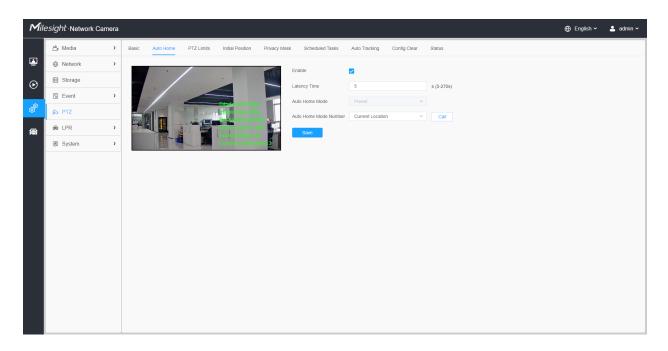
[Others]

Mile	esight Network Came	era									🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
۲	Network	>										
\odot	Storage		Basic PTZ OSD				>					
	5 Event	>	Others				~					
ø	S PTZ		Power Off Memory									
	📾 LPR	>	Set Resume Time	Disabled		~						
	🗷 System	>	Dehumidifying									
			Fan Working Mode	General								
								Sav	ve			

Table 119. 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. General: The fans are turned on from 4am to 7am and 5pm to 8pm every
Dehumidifying	day. Enhancement: The fans are turned on from 5pm to 7am every day.
	Constant: The fans work 24 hours a day.

Auto Home



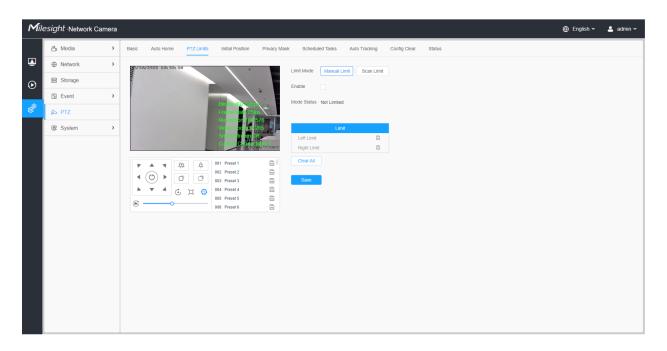
Auto Home allows the PTZ camera to return to a predefined Home Position automatically after a period of latency time. Check the checkbox to enable the Auto Home mode.

Table 120. Description of the buttons

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

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.

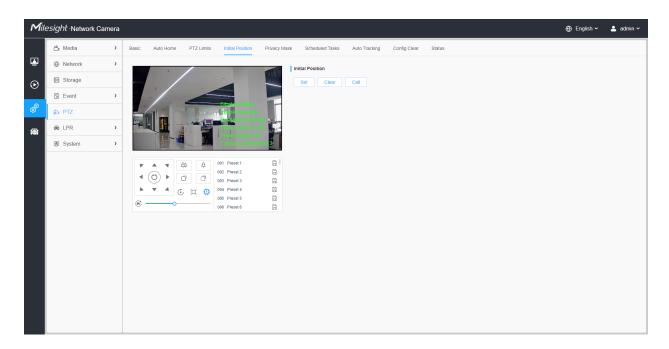
• Scan Limit:

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.

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.

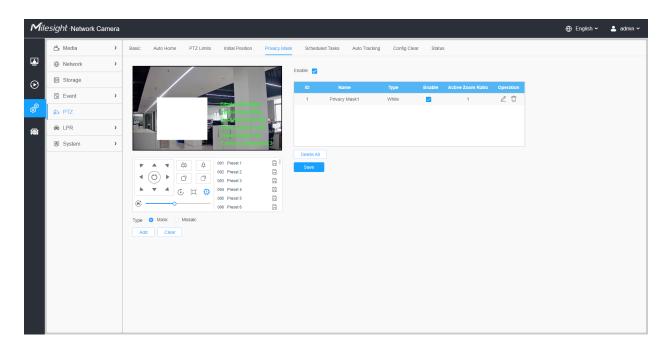
Step2: Click Set to save the position as the Initial Position.

Table 121. 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.

Privacy Mask

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



You can 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.

Mil	esight ∙Network Can	nera											🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Basic Auto Home	PTZ Limits	Initial Position	Privacy Mas	sk Schedul	ed Tasks Auto	Tracking Config C	lear Statu	IS			
•	Wetwork	>		/		17 17	Enable 🔽							
\odot	E Storage		/		-		ID	Name	Туре	Enable	Active Zoom Ratio	Operation		
	S Event	>					1	Privacy Mask1	White		1			
ø	🔊 PTZ			114	Hitake 538.4kbps Frame Rate 25tp	5								
a	lPR	>			Video Codec:H.2 Smart Stream Of	64								
	I System	>			Current Connecti	ons 3								
					001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6		Delete All							

Table 122. Description of the buttons

Parameters	Function Introduction
Enable	Check the check box to enable the Privacy Mask function.

Parameters		Function Introduction									
Туре	Select the type to use	elect the type to use for the privacy areas, there are two types available: Mask and Mosaic.									
Add	Drew an privacy area o	ew an privacy area on the live video as needed.									
Clear	Clear the area you dre	Clear the area you drew 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									

Schedule Tasks

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

Mile	esight ·Network Camera		🕀 English 🗸	💄 admin 🛩
	🖆 Media 🔹 👌	Basic Auto Home PTZ Limits Initial Position Privacy Mask Scheduled Tasks Auto Tracking Config Clear Status		
•	Network Network	Enable 🔽		
\odot	😫 Storage	Schedule Settings		
	5 Event >	0 2 4 6 8 10 12 14 16 18 20 22 24		
ø	🔊 PTZ	Sun Close		
	⊜ LPR >	Mon Auto Scan Preset Tue Partol		
		Wed. ✓ Check		
		Tru. Fri. Sate: Select All Cear All Sate: Latency Trme 5 (5-720s) Same		

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.

Config Clear

Milesi	<i>ight</i> ·Network Came	ra								🕀 English 🗸	💄 admin 🗸
	🖺 Media	>	Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Config Clear	Status		
	Network	>	Config Clear								
\odot	📰 Storage										
	S Event	>	 All All Presets 	All Patrols	🛃 All P	atterns					
ø	🔊 PTZ		 All Auto Homes All Privacy Masks 	All PTZ Limit Initial Positio		cheduled Tasks					
a	📾 LPR	>	Clear	Minual Positio							
	System Setting System Setting Security Logs Maintenance	`									

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.

<u>RS485</u>

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.

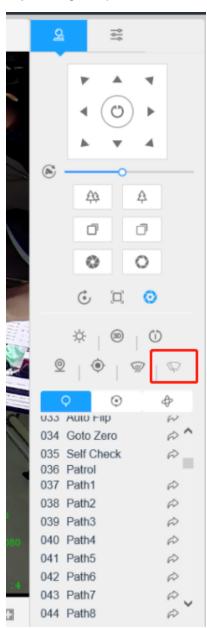
Mile	esight ·Network C	amera											🕀 English 🗸	💄 admin 🗸
۲	ich Media Video Image	Ň	Basic Aut	o Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	RS485	Status		
\odot	Audio		Protocol	Pelco-D		~								
	Network	>	Baudrate	9600		~								
ø	E Storage		Data Bit	8		~								
	S Event	>	Stop Bit	1		~								
	🔊 PTZ		Parity	None		~								
L L	System	>	Flow Control	None		~								
			PTZ Address	1										
			Save											

Wiper

Users can enable the wiper function in this interface, it will detect the rainwater through the rain gauge smart sensor, and then start the wiper to automatically wipe twice to clean the lens and get a clearer view. The wiper supports two different speeds(75°/s and 95°/s) depending on the rain.

Mile	e <i>sight</i> ∙Network Came	era											🕀 English 🗸	💄 admin 🗸
	2 Local		Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	RS485	Wiper	Status		
۲	📇 Media	>	Wiper Settings			1								
\odot	Network	>	Auto Wiper	On	~									
	Storage		Save											
ø	5 Event	>				J								
-	s PTZ													
	System	>												

In the live view interface, it also supports manually enabling the wiper to wipe twice by clicking the wiper button or directly calling the preset 53.



Note:

- When the wiper is working, other events can be triggered normally except the motion detection function.
- When the wiper is working, the Day/Night Mode can be switched normally.

<u>Status</u>

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

Mill	esight Network Ca	mera									🌐 English 🗸	💄 admin 🗸
	🐣 Media	>	Basic Auto Home	e PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
≞	Network	>	Status Info									
\odot	🗄 Storage			2.29°C								
	5 Event	>	Fan W	/orking								
ø	s PTZ											
	🙊 LPR	>										
	System	>										

3.7.5 Traffic

LPR

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.

Currently we have several LPR versions, LPR1, LPR2, LPR3, LPR 4, LPR EU, LPR AP, LPR AM and LPR_ME. 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. LPR_ME is for Middle East.

Before you start, 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.

= Note:

• The LPR1 version does not require a license.

- 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://</u> milesight.freshdesk.com/a/solutions/articles/69000797908.
- For more details about how to set LPR2, please refer to <u>https://</u> milesight.freshdesk.com/a/solutions/articles/69000797905.
- For more details about how to set LPR3, please refer to <u>https://</u> milesight.freshdesk.com/a/solutions/articles/69000797904.

Milesight Network Camera 🌐 English 🗸 🛛 🚨 admin 🗸 🔒 Media List Management List Event Attributes Event Evidence \odot Country / Region Ô 0 6 ion Setting Smart Search Clear LPR Message Post Setting > > a System

Table 123. Description of the buttons

Parameters	Function Introduction				
Enable Detection	Enable/disable the LPR detection function.				
Country/ Region (Only for LPR1, LPR4, LPR_AP and LPR_AM)	Select country/ region to detect the license plate.				

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

<u>General</u>

[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.

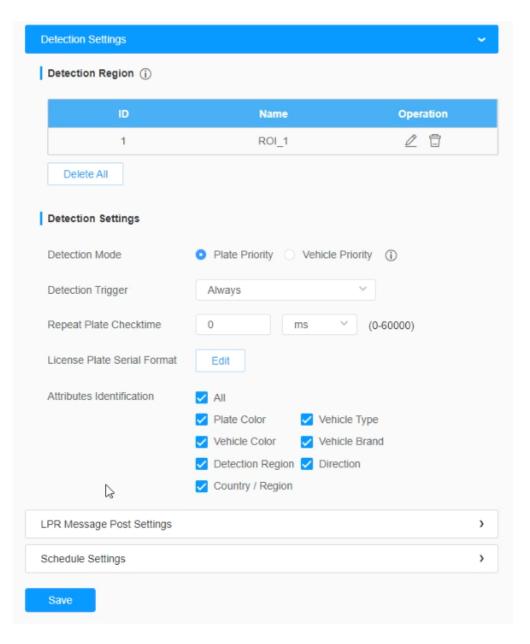
Image Settings			~
Enable LPR Image Mode	~	()	
Level	4	o	
Detection Settings			>
LPR Message Post Settings			>
Schedule Settings			>
Save			

Table 124. Description of the buttons

Parameters	Function Introduction
Enable LPR Image Mode	To enable LPR Image Mode, parameters of Backlight, Exposure and Day/ Night Switch will be set to special values.
Level	Level 1~5 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.



Note: The detection area can be drawn as an irregular quadrilateral, which greatly enhances the scene adaptability.

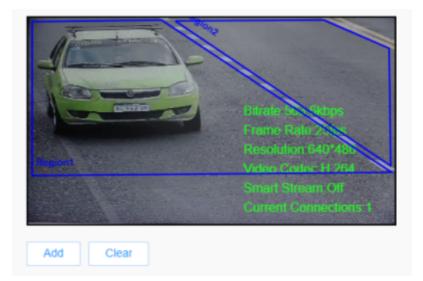


Table 125. Description of the buttons

Parameters		Function Introduction							
	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.								
Add	ID	Name	Operation						
Aud	1	ROI_1	2 1						
	2	ROI_2	2 🗇						
	Note: Only license p	plates larger than 150 pixe	els can be recognized.						
Clear	Click the "Clear" button to	Click the "Clear" button to clear the area being drawn.							
Delete All	Click the "Delete All" butt	Click the "Delete All" button to delete all the added areas.							

Step4: Set Detection Settings.

Table 126. Description of the buttons

Parameters	Function Introduction
Detection Mode	 Plate Priority: Under this mode, the camera will first recognize the license plate and then locate the target as a vehicle with less delay. Vehicle Priority: Under this mode, the camera will first locate the target vehicle and then recognize the license plate to avoid some false detection. Note: Vehicle priority mode can identify vehicles without license plates.

Parameters	Function Introduction
Processing Resolution (Only for LPR1, LPR2, LPR3 and LPR4)	Resolution of the stream for LPR analysis, including 1920*1280, 1280*720, 640*360, 320*176.
Detection Trigger	Always: in this mode, camera will always detect license plates. Alarm Input: in this mode, camera will only detect license plates during Alarm Input is being triggered.
Confidence Level (Only for LPR1, LPR2, LPR3 and LPR4)	You can set the confidence level from 1 to 10. When the confidence level of the license plate is higher than the set confidence level, it will push the license plate image to the logs interface.
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. Note: It supports up to 10 license plate characters.

rameters		Function Introduction								
	Region enable / the Sma • Vel Mo • Vel • Pla	 Check Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, Detection Region, Direction, Country/Region(Only for LPR2 and LPR_EU), orAll to enable Attributes Identification, it will display the corresponding information or the Smart Search interface. Vehicle Type: Car, SUV, Van, Bus, Truck, Fire engine, Ambulance, Motorbike, Bicycle and Other Vehicle Color: Black, White, Gray, Red, Yellow, Green and Blue Plate Color: Black, White, Red, Yellow, Green and Blue Vehicle Brand: 								
				Vehicle Brand						
		Audi	Aston Martin	Alfa Romeo	Acura	BYD				
		Buick	BMW	Bentley	Bugatti	CUPRA				
		Cadillac	Chrysler	Chery	Chevrolet	Citroen				
		Dodge	Daewoo	Daihatsu	DS	Dacia				
es Identification		Ford	Ferrari	Fiat	GMC	Geely				
		Honda	Haval	Hyundai	Infinity	Isuzu				
		Jeep	Jaguar	Kia	Koenigsegg	Lincoln				
		Lexus	Land Rover	Lamborghini	LYNK&CO	Lancia				
		McLaren	Mercedes-Benz	MITSUOKA	Mazda	MINI				
		Maserati	Maybach	Mitsubishi	Mercury	MorrisGarages				
		Nissan	Opel	Pagani	Porsche	Peugeot				
		Renault	Rolls-royce	Rolls-royce	Seat	Suzuki				
		Skoda	Subaru	Smart	Ssangyong	Saturn				
	1	SAAB	Spyker	Shelby	Toyota	Tesla				
		JAAD		/						

Step5: Set LPR Message Post Settings.

Enable LPR								
Country / Region	Australia							
Image Settings		>						
Detection Settings	Detection Settings >							
LPR Message Post Settin	LPR Message Post Settings							
Enable LPR Message P	ost 🗸							
Post Type	O HTTP • TCP O RTSP							
Camera LPR Port	3344							
Schedule Settings		>						
Save								

Table 127. 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 RTSP, TCP or HTTP.
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: http://lP:Port/api/lpr ?
User Name	Receiver name
Password	Receiver Password

[Schedule Settings]

Step6: Schedule Settings.

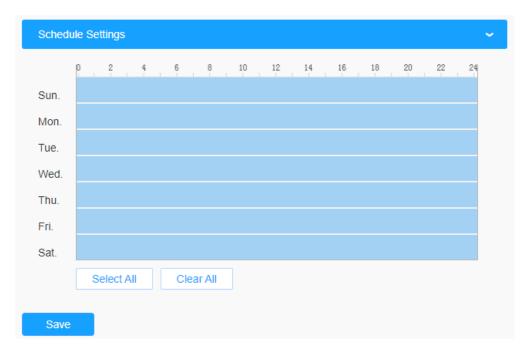


Table 128. Description of the buttons

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

<u>Advanced</u>

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.

Mil	Milesight · Network Camera 🕀 English ~ 🛓 admin ~							
	🖧 Media	General Advanced List Management List Event						
	Network	3						
\odot	Storage	Snapshot OSD >						
	5 Event	Shaparu rine Maine						
Ô	🔊 PTZ							
A	📾 LPR	v						
	Settings							
	Smart Search	,						
		Save 2						
		Save						

[Snapshot OSD]

Mile	esight •Network C	amera					
	😤 Media	>	General	Advanced	List Management	List Event	
▣	Network	>					
	E Storage			hot OSD			
\odot	5 Event	>	Font	Size	Medium	~	
ø			Font	Color		۲	
0	© PTZ		Backg	ground Color			
	📾 LPR	~	OSD	Position	Тор	~	
	Settings			Infomation	All		
	Smart Search		030	momation	Plate		
	System	>			License Plate	Plate Type	Plate Color
					Vehicle Vehicle Type	Vehicle Color	Direction
					Speed	Venicle Golor	Direction
					Other		
					 Time Detection Region 	Position	 Device ID Line Break Character
							_
					File Name	spaces	Sorting 는 1 프
					ime se Plate	1 ~	1= 1=
					e Type	1 ×	1 1 E E
					beed	1 ~	4⊟ 1⊟
				Dire	ection	1 ~	J⊟ 1⊟

Table 129. Description of the buttons

Parameters	Function Introduction
Font Size	Smallest/Small/Medium/Large/Largest 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. Note: 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	Top/Bottom/Top outside the picture/Bottom outside the picture are available for OSD 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
OSD Information	Detection Region Device Name Line Break Character When license plate is recognized and the alarm is triggered, the snapshot of license plate recognition will show as below: 2020-10-10 20:04:09 RT578N Position
	RT-578-N

[Snapshot File Name]

Snapshot OSD Snapshot OSD Snapshot File Name Separator PTZ Item of File Name All
Storage Storage E Vent Scaputor File Name PTZ Sectorgs Smart Search LPR Sectorgs Smart Search System License Plate System Uthole Image Plate Color Uthole Direction Other Other Other Direction Image Direction Image Event
Image: System Separator Image: System Image: System Settings Image: System Image: System Settings Image: System Image: System Settings Settings Image: System Setings Settings
Item of File Name All Settings Smart Search System System Other Other Other Time Position Device Name Item of File Name Sorting Time Time Sorting Time Time Time Sorting Time Time Time Sorting
Settings Settings Smart Search Vehicle Image: System Vehicle Type Vehicle Type Vehicle Color Direction Speed Other Time Item of File Name Sorting Time Time Time Time
SettingS Vehicle Smart Search Vehicle Type Vehicle Color Direction Image: System Speed Speed Other Image: Time Position Device ID Detection Region Device Name Item of File Name Sorting Time Image: Time
Image: System Vehicle Type Vehicle Color Direction Speed Speed Other Image: Time Position Detection Region Device ID Detection Region Device Name Item of File Name Sorting Time Image: Time
Other Imm Position Detection Region Device Name Item of File Name Sorting Time If Immediate
III III IIII
License Plate If EL

Table 130. Description of the buttons

Parameters		Function Introduction	ı
Separator	"-", "_" and Space The default separa	are available for File Name Separat ator is "-".	or format.
	You can customize	e the snapshot file name according	o items chosen.
	Item of File Name	All	
		Plate	
		✓ License Plate Plate Type	Plate Color
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 and \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 Color	Direction
	Speed		
	Other		
	—	Position	Device ID
	Detection Region	Device Name	
ltem o	f File Name		Sorting
	Time		J⊒ 1⊒
Lice	nse Plate		J⊒ 1⊒
Pla	ate Type		J⊒ 1⊒
\$	Speed		J⊟ 1⊟
D	irection		J⊟ 1⊟
Detec	tion Region		JΞ 1Ξ
Position:	Position		J⊟ 1⊟
Dev	ice Name		JΞ 1Ξ
Device ID:	Device ID		J⊟ 1⊟
Pla	te Color		1⊒ 1⊒
Veh	icle Type		1⊒ 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	E All		
	Plate		
	🗸 License Plate	Plate Type	Plate Color
	Vehicle		
	Vehicle Type	Vehicle Color	Direction
	Speed		
	Other		
	🗸 Time	Position	Device ID
	Detection Region	Device Name	
14			B - diam
item c	of File Name		Sorting
	Time		1⊒ 1⊒
Lice	ense Plate		J⊟ 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.

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 according to your settings.

When adding the license plates, you can also define the ID card number for the license plate, when the camera identifies these license plates and recognizes the attached ID card number, it will send the ID card number to your parking system through the **Wiegand protocol**, and then your system can respond based on the received information, such as access control.

Note: Please make sure you have correctly connected the Wiegand interface to the camera and enabled it, for more information please refer to: <u>Wiegand (*page 308*)</u>.

M ile:	<i>sight</i> ·Network Ca	amera								⊕ E	inglish 🛩	💄 admin
	🖧 Media	>	General Advance	d List Management	List Event Traffic Deter	tion						
₽	Network Network	>	Plate Type All	 License Pla 	e							Search
D	E Storage		License Pi		а Туре	Schedule Rule	Valid Time	ID Card No.	No	te	Oper	
	S Event	>	MS2023		ule Mode	Rule 1	2022-07-19 - 2022-07-19	01012022			/	
Ŷ	🖨 LPR	~	MS2022	Wh	te List		Always	20220101			/	Û
a	Settings Smart Search		MS1111	Wh	te List		2022-07-19 - 2022-07-26	01202201			/	Ū
	System	>										
									Total 3 30/	bage Y <	1 >	Go to 1
			Rules Edit						Add	Upload	Export	Delete List

 Table 131. Description of the buttons

Parameters	Function Introduction
	Select the license plate type as black or white, enter the ID Card number and license plate, click the "Add" button, the license plate will be added successfully.
	Add ×
	License Plate* MS2022
Add License Plate	Type White List
Auu License Flate	Valid Time Always V
	ID Card No. 20220101
	Note
	Save Cancel
Batch Upload	You can add a csv form with the license plate you want to add, click the "Browse" button to import the form to this interface, click the "Upload" button, the license plates will be added successfully.
	Note: You can first download the template as a reference in this interface.
List Search	Select Plate Type or directly enter the license plate number, click the "Search" button, the corresponding license plate will be displayed in the list below.
Export List	Click the "Export List" button to export the license plate in the current list to a csv form locally.
Delete List	Click the "Delete List" button to delete all the license plate in the current list.

Parameters	Function Introduction
Parameters	Click the "Edit" button to customize a rule.
Schedule Rules	And then set the license plate to Schedule Mode and choose a custom schedule rule that can configure the license plate as Black List or White List at different times.
	License Plate* DF53EU7 Type Schedule Mode Schedule Rule Rule 1 Valid Time Always Note
	Note: Support setting up to 4 Schedule Rules for Schedule Mode.

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

List Event

Mil	esight ·Network Camera		🕀 English 🗸	💄 admin 🗸
	ළී Media 🔸	General Advanced List Management List Event		
Ē	Network	List Type Black List White List Visitor		
\odot	🖹 Storage	Enable		
	ত Event >	Schedule Settings		
ø	🔊 PTZ	Alam Action		
	⊜ LPR ✓	Save		
	Settings Smart Search	Gare		

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

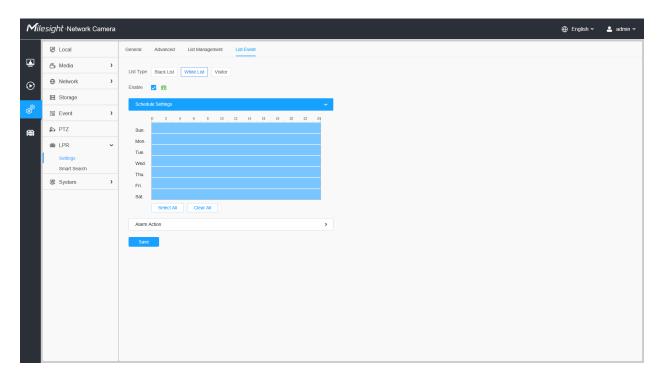
Step2: The corresponding alarm icon is triggered when the Black List/White List/Visitor vehicles passing by.

Mill	<i>esight</i> ∙Network Camer	а	🕀 English 🗸	💄 admin 🗸
	@ Local	General Advanced List Management List Event		
۲	📸 Media	List Type Black List Write List Visitor		
\odot	Network			
	Storage	Schedule Settings 🗸		
ø	5 Event			
a	PTZ	Sun.		
	(n) LPR	Tue.		
	Settings Smart Search	Wed		
	🗷 System	Fri.		
		Sat		
		Select All Clear All		
		Alarm Action		
		Save		

Black List:

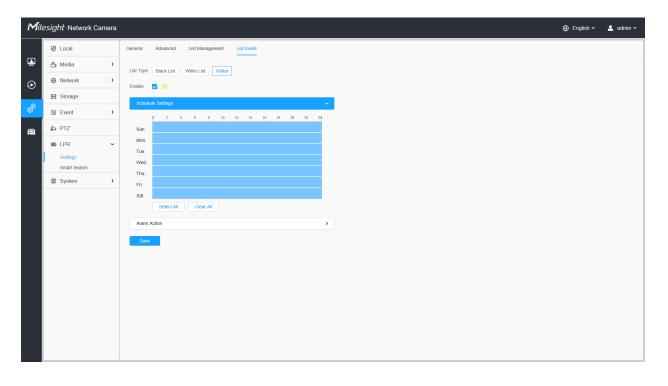
M ilesight Ne	twork Camera											🕀 English 🗸	💄 admin 🗸
Primary Strea	am 🗸 HTTP 🗸 Balar	nced 🖌 LPR	÷								1 8	£ £	
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	A. T. WINN											© @	8
	Freitag					Recognition R			De: Black List Color: Black Speed: -	c White Vehicle Type: Direction: Awa		 O01 Preset 1 O02 Preset 2 O03 Preset 3 O04 Preset 4 O05 Preset 5 O06 Preset 6 	4 0000
No.	License Plate	Snapshot	Plate Type	Plate Color	Vehicle Type	Vehicle Color	Speed	Direction	Detection Region	Time	Operation	007 0 17	
14	DOK69	1001/02	Black List	White	Car	Black	-	Away	1	2022-04-21 23:25:42	Q 🖪	009 Preset 9	6
13	BOJV11	ROTUT	Visitor	White	Car	Black	-	Away	1	2022-04-21 23:25:39	Q.	010 Preset 10 011 Preset 11	6
12	2BKZ2	2"BKZ-2	Visitor	White	Car	Red	-	Away	2	2022-04-21 23:25:23	QI	012 Preset 12	
11	MGBB2	MGIBB 25	Visitor	White	Bus	Blue		Away	2	2022-04-21 23:25:21	QIE	013 Preset 13	6
10	DOCG1	100-05 at	Visitor	White	Car	White	-	Away	2	2022-04-21 23:25:19	QB	014 Preset 14 015 Preset 15	6
9	FE301	F F E 30	Visitor	White	Car	Black	-	Away	2	2022-04-21 23:25:17	QI	016 Preset 16	6
8	DOJO;	100:00 T	Visitor	White	Car	Gray	-	Away	2	2022-04-21 23:25:14	QIE	017 Preset 17 018 Preset 18	
7	WHV02	BERGE OZ	Visitor	White	Car	Gray		Away	2	2022-04-21 23:25:10		019 Preset 19	13
6		MADSH11	White List	White	Minihus	Red		Awav	2	2022-04-21 23:25:01	O 🖩 AUTO 🛩 🔛	020 Preset 20 021 Preset 21	
												1	۹ 100%

White List:



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Primary St	ream 🗸 HTTP 🗸	Balanced - LPR	~									A 4	
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												O	
		Π.									************************************	001 Preset 1	
				- 4								002 Preset 2 003 Preset 3	
						Recognition F	tesult	Plate T	Type: White List Plate Color	White Vehicle Type:	Minibus	004 Preset 4	
						DOH1		Vehicle	e Color: Red Speed: •	Direction: Awa	ay	005 Preset 5 006 Preset 6	
No.	License Plate	Snapshot	Plate Type	Plate Color	Vehicle Type	Vehicle Color	Speed	Direction	Detection Region	Time	Operation	007 Preset 7	
15	DOH1	MDO:H1	White List	White	Minibus	Red	-	Away	2	2022-04-21 23:25:45	QB	008 Preset 8 009 Preset 9	
14	DOK6	TODYK C	Black List	White	Car	Black	-	Away	1	2022-04-21 23:25:42	Q	010 Preset 10 011 Preset 11	
13	BOJV1	RO DV	Visitor	White	Car	Black	-	Away	1	2022-04-21 23:25:39	QR	012 Preset 12	
12	2BKZ'	2:BKZ	Visitor	White	Car	Red		Away	2	2022-04-21 23:25:23	QE	013 Preset 13 014 Preset 14	
11	MGBB.	MG.BB.	Visitor	White	Bus	Blue	-	Away	2	2022-04-21 23:25:21	QB	015 Preset 15	
10	DOCG	TERROTOR N. FOLE 3	Visitor	White	Car	White	-	Away	2	2022-04-21 23:25:19	QE	016 Preset 16 017 Preset 17	
	FE30		Visitor	White	Car Car	Black	-	Away	2	2022-04-21 23:25:17		018 Preset 18	
9	DO K	E 10 x 20				Gray		Away	2	2022-04-21 23:25:14	Q ES U	019 Preset 19	
9 8	DOJC WHV07	MEC JO	Visitor	White	Car	Grav		Away	2	2022-04-21 23:25:10	OR	020 Preset 20	

Visitor:



	letwork Camera											⊕ English ∽	e a
Primary Str	ream 🗸 HTTP 🗸	Balanced - LPR										छ इ	
	and the second second		a	20100						/		 A O A 	* •
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		F							1			© ⊑ ☆ ⊗	0
				MG					B			 	9
			4			Recognition R			ype: Visitor Plate Color e Color: Black Speed: -	r: White Vehicle Type: Direction: Aw		003 Preset 3 004 Preset 4 005 Preset 5	
No.	License Plate	Snapshot	Plate Type	Plate Color	Vehicle Type	FE30		Vehicle				003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7	
No. 18	License Plate FE301	Snapshot	Plate Type Visitor		Vehicle Type Car	FE30		Vehicle	e Color: Black Speed: -	Direction: Aw	ay	003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8	
				Plate Color		FE30	Speed D	Vehicle Direction	e Color: Black Speed: - Detection Region	Direction: Aw	operation	003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10	
18	FE301	Snapshot	Visitor	Plate Color White	Car	FE30 Vehicle Color Black	Speed D	Vehicle Direction Away	e Color: Black Speed: - Detection Region 2	Direction: Aw Time 2022-04-21 23:26:00	operation Q ₪	003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 9 010 Preset 11	
18 17	FE301 DOJO3	Snapshot AF1E.32 T00730 CARV:02	Visitor Visitor	Plate Color White White	Car Car	FE30 Vehicle Color Black Gray	Speed D	Vehicle Direction Away Away	2 Color: Black Speed: - Detection Region 2 2	Direction: Aw Time 2022-04-21 23:26:00 2022-04-21 23:25:57	operation Q 많 Q 많	003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10	
18 17 16	FE301 DOJO3 WHVOZ	Snapshot	Visitor Visitor Visitor	Plate Color White White White	Car Car Car	FE30 Vehicle Color Black Gray Gray	Speed D	Vehicle Direction Away Away Away	Color: Black Speed: - Detection Region 2 2 2 2	Direction: Aw Time 2022-04-21 23:26:00 2022-04-21 23:25:57 2022-04-21 23:25:53	nay Operation Q ₪ Q ₪ Q ₪	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 11 014 Preset 13 014 Preset 14	
18 17 16 15	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 D	Vehicle Direction Away Away Away Away	Color: Black Speed: - Detection Region 2 2 2 2	Direction: Aw Time 2022-04-21 23:26:00 2022-04-21 23:25:57 2022-04-21 23:25:53 2022-04-21 23:25:45	Apperation ○ C C C ○ C C ○ C C ○ C C ○ C C ○ C ○	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 14	
18 17 16 15 14	FE301 DOJO3 WHVOZ DOH10 DOK69:	Snapshot 1 F0 F37 1 70 T0 05 1 70 F0 70 1 70 F0 70 1 70 F0 70 1 00 FH F0 1 00 FH F0 1 00 FK F0	Visitor Visitor Visitor White List Black List	Plate Color White White White White White White	Car Car Car Minibus Car	FE30 Vehicle Color Black Gray Gray Red Black	Speed D	Vehicle Direction Away Away Away Away Away	Color: Black Speed: - Detection Region 2 2 2 2	Direction: Aw Time 2022-04-21 23 26 00 2022-04-21 23 25 57 2022-04-21 23 25 53 2022-04-21 23 25 45 2022-04-21 23 25 42	Aperation Q ₪ Q ₪ Q ₪ Q ₪ Q ₪ Q ₪ Q ₪ Q ₪	003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 007 Preset 7 008 Preset 7 009 Preset 7 009 Preset 9 010 Preset 10 011 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15 016 Preset 16 017 Preset 17	
18 17 16 15 14 13	FE301 DOJO3 WHVOZ DOH10 DOK69: BOJV11	Snapshot	Visitor Visitor Visitor White List Black List Visitor	Plate Color White White White White White White White	Car Car Car Minibus Car Car	FE30 Vehicle Color Black Gray Gray Red Black Black	Speed D	Vehicle Direction Away Away Away Away Away Away Away	Color: Black Speed: - Detection Region 2 2 2 2 1 1	Direction: Aw Time 2022-04-21 23 26 00 2022-04-21 23 25 57 2022-04-21 23 25 53 2022-04-21 23 25 42 2022-04-21 23 25 39	ay Operation Q @ Q @ Q @ Q @ Q @ Q @ Q @ Q @	003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 7 009 Preset 9 010 Preset 9 011 Preset 11 012 Preset 13 014 Preset 13 015 Preset 14 016 Preset 14 017 Preset 16 017 Preset 17	
18 17 16 15 14 13 12	FE301 DOJ03 WHVOZ DOH10 DOK69: BOJV11 28KZ2	Snapshot 1919 30 1920 700 1920 700 1920 700 1920 700 1920 700	Visitor Visitor Visitor White List Black List Visitor Visitor	Plate Color White White White White White White White White	Car Car Car Minibus Car Car Car Car	FE30 Vehicle Color Black Gray Gray Red Black Black Red	Speed D	Vehicle Direction Away Away Away Away Away Away Away	Color Black Speed - Detection Region 2 2 2 2 1 1 1 2 2	Direction: Aw Time 2022-04-21 23 26 00 2022-04-21 23 26 57 2022-04-21 23 26 53 2022-04-21 23 26 54 2022-04-21 23 26 34 2022-04-21 23 26 32 2022-04-21 23 26 32	ay Operation Q ₪ Q ₪ Q ₪ Q ₪ Q ₪ Q ₪	003 Preset 3 004 Preset 6 005 Preset 5 006 Preset 7 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 15 015 Preset 15 016 Preset 16 017 Preset 17 018 Preset 17	

[Schedule Settings]

Step3: Schedule Settings.

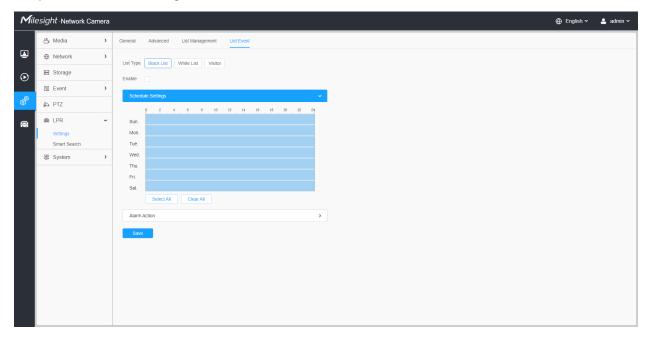


Table 132. Description of the buttons

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.

	k Camera	
🖧 Media	>	General Advanced List Management List Event
Network	>	List Type Black List White List Visitor
Storage		Enable
5 Event	>	Schedule Settings
🔊 🔊 PTZ		Alarm Action
R C C C C C C C C C C C C C C C C C C C	,	Record > Snapshot > External Output > Play Audio (Plaude enable the Audio Speaker.) Alarm to SIP Phone (Plause open the SIP.) HTTP Notification > White LED >

 Table 133. Description of the buttons

Parameters	Function Introduction		
Record	 Duration: Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available. Linkage: Save alarm recording files into SD Card or NAS or Upload the recording files via FTP. 		
Snapshot Number: The number of snapshot, 1~5 are available. Interval: This cannot be edited unless you choose more than 1 to Snapshot Linkage: 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.		
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.		
HTTP Notification	Support to pop up the alarm news to specified HTTP URL. Note: • Three HTTP notifications at most can be added to the same event. • HTTP Notification supports Basic & Digest authentication		
White LED	When the alarm triggered, White LED will turn on to warning the detected objects (Only for PTZ Bullet).		

Attributes Event

This function can trigger alarms by corresponding attributes of the vehicle and plate or by No-plate Vehicle, which can be of great help in urban management, such as detecting whether there is a vehicle illegally occupying the bus lane, or detecting whether there is a truck entering the city road during the day, etc., to meet a variety of uses.

Mile:	sight ·Network Camera		🕀 English 🗸	💄 admin 🗸
	🖧 Media 🔹 🔸	General Advanced List Management List Event Attributes Event Evidence		
•	Network >	Rules 1 2 3 4		
\odot	B Storage			
	S Event >			
Ô	🔊 PTZ	Alarm Tropper License Plate		
	📾 LPR 🗸			
Page 1	Settings	No Pitates 🔽		
	Smart Search	Attributes		
	图 System >	Plate Color White +4		
		Vehicle Type Car 🛞 + 3		
		Vehicle Color Black () +5		
		Detection Region		
		Direction Approach ()		
		Note: Please enable Attribute Identification first. The logic between the attributes is AND.		
		Schedule Settings		
		Alarm Action		
		Save		

Settings steps are shown as follows:

Step1: Select an event rule and enable it.

Note: Up to 4 attribute event rules can be set.

Step2: Set the Alarm Trigger as No-plate detection or other attributes.

Note:

- Please enable Attribute Identification first.
- The logic between No plates and Attributes is OR. For example, if I check both No Plates and Attributes, whether "No plates" or other attributes are recognized, the alarm event will be triggered.
- The logic between the attributes is AND. For example, if I check multiple vehicle attributes, the alarm action will only be triggered when the vehicle meets these attributes at the same time.

Step3: Set the schedule.

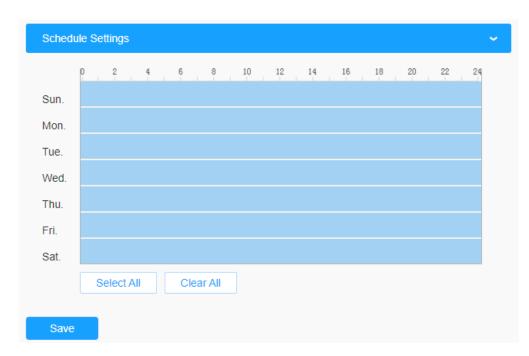
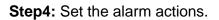


Table 134.

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



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

Table 135.

Parameters	Function Introduction		
Record	 Duration: Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available. Linkage: Save alarm recording files into SD Card or NAS or Upload the recording files via FTP. 		
Snapshot	 Number: The number of snapshot, 1~5 are available. Interval: This cannot be edited unless you choose more than 1 to Snapshot. Linkage: 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.		
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.		
HTTP Notification	 Support to pop up the alarm news to specified HTTP URL. Note: Three HTTP notifications at most can be added to the same event. HTTP Notification supports Basic & Digest authentication 		
White LED	When the alarm triggered, White LED will turn on to warning the detected objects (Only for PTZ Bullet).		

<u>Evidence</u>

This function can bind other cameras as evidence cameras to assist in capturing the entire monitoring scene of the LPR camera to facilitate forensics and help law enforcement.

Mile	sight ·Network Camera	1						 ⊕ English ∽	💄 admin 🗸
	🖧 Media	>	General Advance	ed List Mana	gement Lis	it Event Attr	butes Event Evidence		
•	Network	>	Enable 🗸						
\odot	🖶 Storage		Evidence Camera	10			~		
	le Event	>	ID	Name	Enable	Status	Operation		
ø	🔊 PTZ		1	camera A		0	20		
	📾 LPR	~	2	camera B	~	0	2 0		
	Settings Smart Search		Add						
	🐼 System	>	Event Settings				>		

Settings steps are shown as follows:

Step1: Check the checkbox to enable this function.

Step2: Click button to add the evidence camera by entering the user name, password, and Address. And the camera name of the evidence camera can be customized.

Note:

- Up to 2 evidence cameras can be added.
- Evidence camera captures primary stream picture by default.
- For the Address, input evidence camera IP directly for Milesight camera, and snapshot URL is supported for third-party camera.

	Add		×
Camera Name*	cameraB		
User Name*	admin		
Password*		0	
Address*	192.169.69.162		(j)
_	Save Cancel		
	Cancel		

Step3: The added evidence cameras will be listed in the interface, and users can edit these cameras separately.

vidence Camera	IS			
ID	Name	Enable	Status	Operation
1	camera A		0	2 🗇
2	camera B		0	2 🗇
		_		
ent Settings				

For the meaning of the buttons on the interface, please refer to the following table.

Table 136.

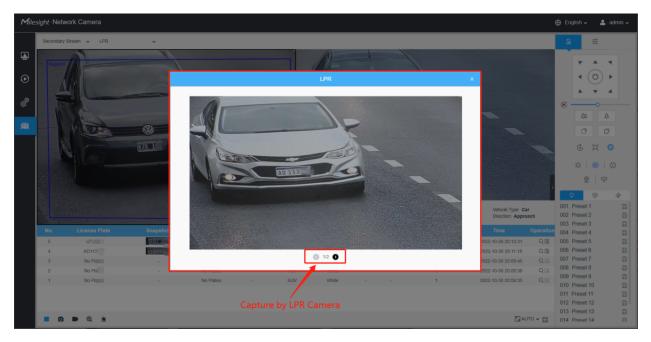
Parameters	Function Introduction		
	Enable or disable the evidence camera.		
	Check the connection status of the evidence camera.		
Ø, 9	Connect		
	IDisconnect		

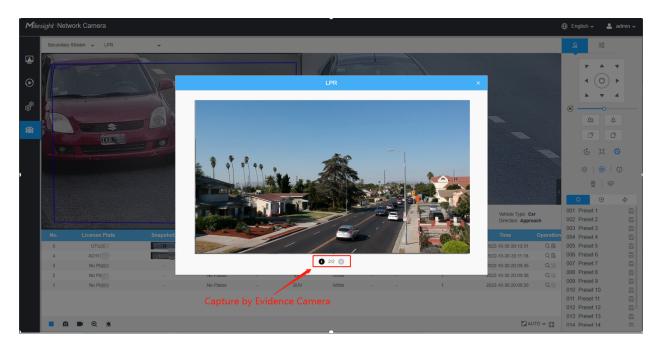
Parameters	Function Introduction	
2	Edit the evidence camera.	
Û	Delete the evidence camera.	

Step4: Set Capture Conditions. Currently it only supports the always option, which means that as long as the camera recognizes the license plate, the evidence camera will be triggered to capture a picture of the entire scene.

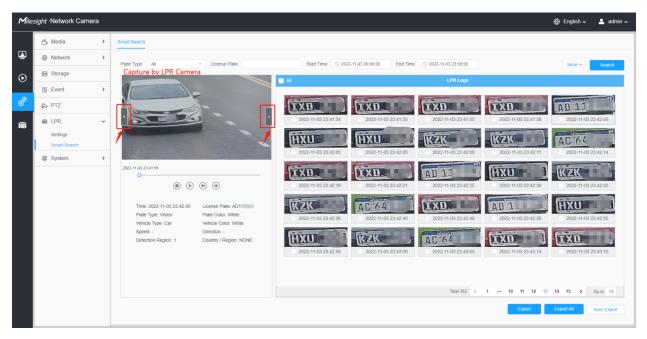
Event Settings	~
Capture Conditions Always	

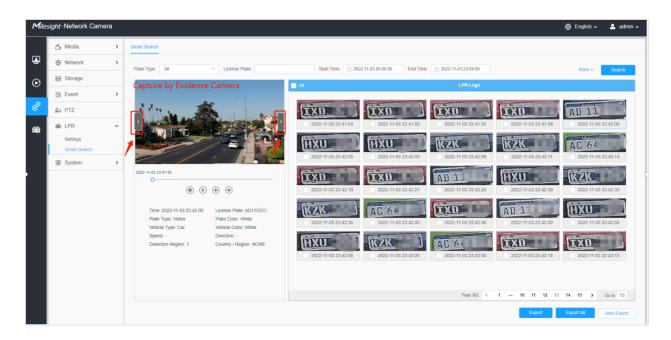
Step5: After completing the above settings, the evidence camera will work together to capture the scene when the LPR camera captures the license plate, which can be viewed on the Live View interface of LPR Mode.





Users can also search and export the image captured by evidence camera in the Smart Search interface.





Traffic Detection

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.

The 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 https://milesight.freshdesk.com/a/solutions/articles/69000797257.

Step1: Enable the traffic detection.

Go to the "LPR"--> "Settings"--> "Traffic Detection", check the checkbox to enable Traffic Detection.

Then adjust the detection sensitivity of the radar module, levels 1~4 are available. The higher the sensitivity, the easier the target is to be detected. Users can adjust the detection sensitivity as needed to avoid some missing or false detection, such as false detection caused by rain hitting the radar board.

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	le Local	General Advanced List Management List Event Traffic Detection	
	📇 Media	Enable 🕑 🕐	
\odot	Network		
	E Storage	Road and Installation	
ø	S Event 3	BLATE WORKSHOLD	
@	📾 LPR 🗸	Restance invalue	
	Settings		
	Smart Search	Width of Each Lane 4 m (3-6)	
	System 2	90 -	
		Installation Location 0 m (-12-12)	
		70- Installation Height m (2~7)	
		60 - Radar Tilt Angel ° (0-15)	
		50- Camera Direction 0 *(-30-30)	
		40- 30- Radar Test Start	
		20-	
		10- Lane1 Lane2 Schedule Settings >>	
		-8 0 8 Traffic information	
		(i) Alarm Action >	
		Save	

Note: For users who are using the Radar AI LPR Camera for the first time, we recommend clicking the icon on the right to get the quick start guide.

General Advanced	List Management List Event Traffic Detection	
	Enable ⑦ Sensitivity 4	
	Guide ×	
	Installation Suggestions Please avoid complex roadside environments due to Multipath Effect. It is recommended that the camera be installed above the road, rather than at the roadside.	
	Explanation of Paralizeters	
90 - 80 - 70 - 60 - 50 - 40 - 30 - 20 -	Installation Location When installed in the middle of the road, enter 0. Left bias is negative and right bias is positive. Camera Direction When parallel to the road, enter 0. Turn right is positive, turn left is negative. Trigger Distance For approaching vehicles, the top edge of LPR ROI should preferably be at the same place as the same place as Trigger Distance. Image: Provide the triangle of the road, enter 0. Turn right is positive. Image: Provide the triangle of the road, enter 0. Turn right is positive. Image: Provide the triangle of the road of	
0	Instanation Location	
	Alarm Action >	

Step2: Fill in the road and installa	ation information as shown below.
--------------------------------------	-----------------------------------

Table 137	Description	of the buttons
-----------	-------------	----------------

Parameters	Function Introduction
Number of Lanes & Width of Each Lane	Please fill in the number of lanes and the width of each lane according to the actual scene. It supports up to 4 lanes, and the width range of each lane is from 3 to 6 meters.
Installation Location	Please fill in the installation position of the camera on the road, the range is -12 to 12 meters, and the default is 0. If the camera is installed in the middle of the road, fill in 0, otherwise, fill in the corresponding offset distance. It should be noted that the installation position needs to be confirmed as a positive or negative number. With the center of the road as the zero point, if the camera is installed on the left side of the road, it is defined as a negative number, and if it is on the right side, it is defined as a positive number.
Installation Height	Please fill in the installation height according to the actual installation height of the camera, the range is 2 to 7 meters.
Radar Tilt Angle	Please fill in the Radar Tilt Angle according to the actual installation angle between the camera's field of view and the horizontal.
Camera Direction	Please fill in the angle between the direction of the camera installation and the road, the angel range is -30°~30°, and the default is 0°. When the camera is parallel to the road, enter 0. Turn right is positive, turn left is negative as shown below.
	Om Zm Instanation Location

Parameters	Function Introduction
Radar Test	After completing the above configuration, you can click the test button, then the above configuration will be automatically saved and the radar module will start to test with the maximum sensitivity and maximum detection range, which is not limited by the lane configuration. In this way, the user can flexibly adjust the configuration according to the position of the target in the coordinates to achieve the most matching configuration.

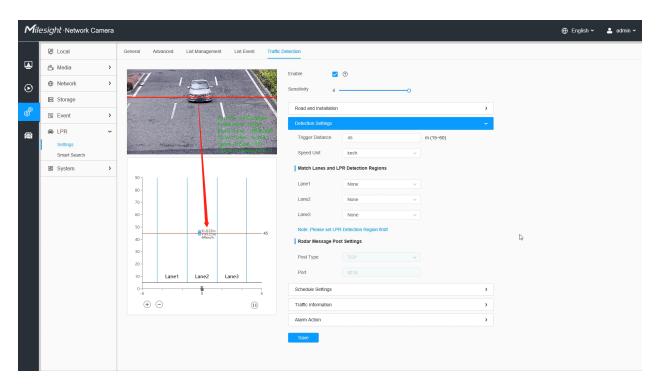
Step3: Set Detection Settings.

 Table 138. Description of the buttons

Parameters	Function Introduction
	As shown in the radar configuration page in the figure below, there will be a red line in the preview box of the configuration page. The red line is the position that can be adjusted up and down, and the Trigger Distance is the horizontal distance from the red line to the radar. When the license plate is detected in the LPR detection area, the recognized LPR detection result will match the radar data of the vehicle passing the trigger distance at the same time. Therefore, please ensure that the position of the red line in the video is the actual horizontal distance from the red line to the radar in the scene, to facilitate better matching between the LPR data and Radar data.
	General Advanced List Management List Event Traffic Detection France Sensitivity 4 Road and finistilation Trigger Distance 45 m (15-66) Sepect Unit Road Road
	In order to provide more accurate radar detection, for the approaching vehicles, we recommend setting the trigger line at the upper edge of the LPR detection area, and for the leaving away vehicles, we recommend setting the trigger line in the middle of the LPR detection area, as shown below. For the Oncoming Vehicles:
Trigger Distance	Rader Camera Gount: 157 @s4Ukm2/h B8m Approach ~2.2* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	For the Leaving Vehicles:
	Note: To ensure relative accuracy, users need to fill in the trigger distance after actual measurement, we recommend three ways to get the trigger distance. For more details, please refer to <u>https://milesight.freshdesk.com/a/solutions/articles/69000797257</u> .

Parameters	Function Introduction
Speed Unit	Select the speed unit as km/h or mph to meet the needs of customers in different regions.
Match Lanes and LPR Detection Regions	Please match the LPR detection region and lane one by one according to the actual scene.
Radar Message Post Settings	It supports the compatibility of radar data with back-end software via TCP, such as Milesight VMS Enterprise.

After completing the Road&Installation Settings and Detection Settings, these information will be dynamically matched with the coordinate map in the lower left corner, and the detected target will also be dynamically displayed on the coordinate map, which is convenient for users to view the detection results in real time.



Step4: Schedule Settings.

Set the effective time of traffic detection.

Mill	esight ·Network Came	əra		🕀 English 🗸	💄 admin 🗸
	📇 Media	>	General Advanced List Management List Event Traffic Detection		
<u>نه</u>	Network	>	Enable 🔽 🕥		
\odot	🖴 Storage				
	5 Event	>			
ø	n LPR	~	Road and Installation		
_	Settings		Detection seturgs (
A	Smart Search		Schedule Settings		
	😨 System	`	p 2 4 6 8 10 12 14 15 18 20 22 24		
			Sun.		
			90 - Mon		
			80-		
			70-		
			60 - Fri.		
			50- Sat		
			4035 Select All Clear All		
			30- Traffic information		
			20-		
			10- Lane1 Lane2 Alarm Action >		
			-8 Save		
			$\odot \odot$ 0		

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.

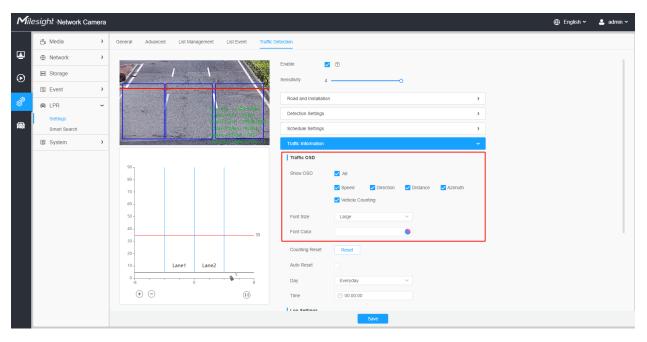
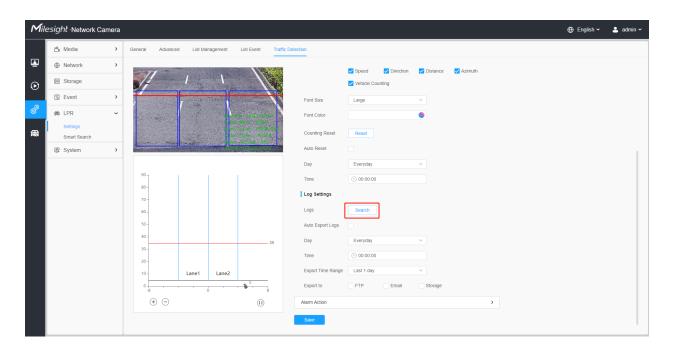


Table 139. Description of the buttons

Parameters	Function Introduction
Show OSD	Users can choose the information they want to display in Live Video, including Speed, Direction, Distance, Azimuth and Vehicle Counting.
Font Size&Font Color	<text></text>
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). After it is enabled, the interface is as shown in the figure below, just follow the prompts to set it.

Step6: Log Settings.

Click the "Edit" button, and a pop-up window as shown in the figure below will appear, allowing users to search for various types of logs and supporting the log export function.



		Radar Log	5		
start Time 🕒 2022-06-12 00:0	0:00 End Time	2022-06-13 2	3:59:59		Search
Time	Speed	Direction	Distance	Azimuth	Vehicle Counting
2022-06-13 14:06:05	3km/h	Approach	34m	-14°	24140
2022-06-13 14:05:18	4km/h	Approach	34m	-10°	24139
2022-06-13 14:04:16	7km/h	Away	35m	-14°	24138
2022-06-13 14:03:09	54km/h	Away	35m	-3°	24137
2022-06-13 14:02:26	20km/h	Approach	34m	-8°	24136
2022-06-13 14:02:05	13km/h	Approach	34m	-7°	24135
2022-06-13 14:02:04	28km/h	Approach	34m	-11°	24134
0000.00.40.44.00.00	0.01zms/lb	Annroach	0.4.00	440	0.44.00
Total 2710	30/page ~ <	1 2 3	4 5	6 91	> Go to 1
					Export

[Enable Auto Export Logs]: Support regular automatic export of logs to FTP, Email and Storage.

Mile	esight Network Camera	a	🕀 English 🗸	💄 admin 🗸
	🖧 Media 🔹 👌	General Advanced List Management List Event Traffic Detection		
•	Network Network	Speed V Direction V Distance V Azimuth		
⊙	E Storage	Vehicle Counting		
	S Event >	Font Size Large V		
ø	⊜ LPR ✓	Fort Color		
	Settings Smart Search	Counting Reset		
	🕲 System 🔹	Auto Reset		
		Day Everyday 🗸		
		90 - Time ⓒ 00.00.00		
		70-		
		60- Logs Search		
		50 - Auto Export Logs 🔽		
		40		
		30- Time 💿 00.00.00		
		20 - 10 Lane1 Lane2 Export Time Range Last 1 day V		
		0 - Laire' Laire		
		Save		

Step7: Traffic Alarm Threshold.

Used to set traffic alarm thresholds, such as maximum and minimum speed limits, and vehicle counting limits.

OSD Blink

You need to enable the corresponding OSD first as shown in Figure 19. And then 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.

Mile	esight ·Network Car	mera							•	English 🗸	💄 admin 🗸
	📇 Media	>	General Advanc	ed List Manager	ment List Event	Traffic Det	tection				
ē	Network	>		n,	.2/06/2022 R4 -11	28	Schedule Settings	>			
\odot	🗄 Storage		P	andu Selan Approximis -2			Traffic Information	>			
	5 Event	>		2			Alarm Action	~			
ø	📾 LPR	~	-		Frame tate 20fps		Traffic Alarm Threshold				
a	Settings Smart Search		The file		Resolution 2400-1600 March Street Fredoric CH 264)	Min. Speed Limit 0 km/h				
	😨 System	>	- 4-		Current Connections		Max. Speed Limit 5 km/h				
							Count 9999				
			90	1 I			Alarm Action				
			80 -				Record	>			
			60 -				Snapshot	>			
							Z External Output	>			
			50 -				Play Audio (Please enable the Audio Speaker.)				
			40 -		3	15	Alarm to SIP Phone (Please open the SIP)				
			30 -				HTTP Notification	>			
			20 -				OSD Blink (Pleace check the Show OSD)	~			
			10 -	Lane1 L	.ane2		OSD Blink Time 3 Reset				
			0-8	0							
			÷ 🖯		(1)		Save				

Send Email

You need to configure the correct email information first. And then when an alarm is triggered, it will send the detection result to the corresponding email as shown below, including the license plate number, event type, vehicle speed, etc.

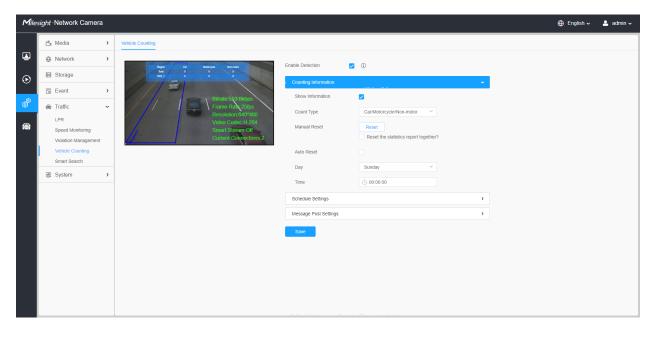
🔄 Check 🔻 💋 Comp	iose + 🔺 Reply + 🐇 Reply All + 📫 Forward	🔻 🔀 Delete 🛛 Print Preview 🕵 WeChat Work	Q Search mail
🔻 🛅 Favorites	Sort by Date ¥ ▼ Today (1 message)	Network Camera Traffic Detection 🔤 4 199 2022-05-31 23:16:12 📩	
All Unread	● Syndy Now ★ Network Camera Traffic Detection 阗DCA674 199	Syndy To davldzhang	2022-06-14 13:35 Hide Detail
► All Labeled ▼ C3 milesight(davidzhang)		From: Syndy < 5,	
🔲 Inbox 📢 Announcement		Size: 3 KB	
Draft	l l	This is a automatically generated e-mail from your camera. DEVICE NAME: Network Camera IP ADDRESS: 192.168.5.191	
 Trash Spam 其他文件夹 		EVENT TIME: 2022-05-31 23:16:13 EVENT: Traffic Detection Speed: 41mn/h	
► Allevity		Direction: Away Vehicle Counting: 199	
		Plate: 74	
Syndy Network Camera	Traffic Detectio		

Vehicle Counting

The Vehicle Counting function can be carried out according to different vehicle types and different lanes. And the statistics report can be displayed on the Live View interface and LPR interface to provide intuitive experience. The vehicle counting data can help to understand the real-time traffic volume, which is very helpful in road guidance and traffic control.

Note:

- 1. Enabling the Vehicle Counting will switch LPR to vehicle priority mode, ensuring more accurate vehicle counting data without missing the count for no-plate vehicles.
- 2. Please make sure your model is TSxxxx-xxC (Except for TSxxxx-FPC/P).



Step 1: Enable LPR function and draw the detection area in preview on Traffic-->LPR-->General interface. Up to 4 detection area supported. Refer to <u>LPR (*page 241*)</u> for the details of the LPR Settings.

Note: If you have enabled the LPR function before, steps of LPR configuration are not require.

M ile:	sight ·Network Camera	a					🕀 English 🗸	💄 admin 🗸
	🔒 Media	>	General Advanced List Management List Event Attrib	utes Event Evidence				
•	Network	>		Enable LPR	v			
\odot	E Storage			Country / Region	China 👻			
	S Event	>		Image Settings		>		
ø	Traffic	~	indicate and indic	Detection Settings				
	LPR Speed Monitoring		Region2 Region3 results and a second	Detection Region ①				
	Vehicle Counting Smart Search		Contra Contras (Const	ID	Name	Operation		
			Add Clear	1	Lane1	2 1		
	System	>		2	lane2	2 0		
				3	Lane3	20		
				4	Lane4	2 0		
				Delete All				
				Detection Settings				
				Detection Mode	O Plate Priority O Vehicle Prior	rity 🛈		
				Detection Trigger	Always	×		
				Repeat Plate Checktime	0 ms ~	(0-60000)		
				License Plate Serial Forma	t Edit			
				Attributes Identification	All			
					Plate Color Vehicle			
					Vehicle Color Vehicle	Brand		

Step 2: Go to the Vehicle Counting interface and click to enable the Vehicle Counting function.

[Counting Information]

Step 3: Configure the counting information.

Table 140. Description of the buttons

Parameters	Function Introduction
Show Information	Click to present counting chart on Liveview.
	Note: Counting chart can be dragged to different places as needed.

Parameters	Function Introduction
Counting Type	 There are two ways to count based on vehicle types classification in liveview. Car/Motorcycle/ Non-motor Mode: Car: Car, SUV, Van, Bus, Truck, Fire engine, Ambulance Motorcycle: Motorbike Non-motor: Bicycle, Other Small/Medium/Large Vehicle Mode: Small Vehicle: Car, Motorbike, Bicycle, Other Medium Vehicle: SUV, Van, Ambulance Large Vehicle: Bus, Truck, Fire engine The vehicles can be counted in real time for 3 different vehicle types and up to 4 different lanes, giving users the most effective information.
Manual Reset	You can enable the auto reset if you want to auto counting by day or by week. The statistics report can be reset together.

[Schedule Settings]

Step4: Set the schedule of monitoring;



[Message Post Settings]

Step 5: Enable the message post and set the post mode, content and type as needed.

 Table 141. Description of the buttons

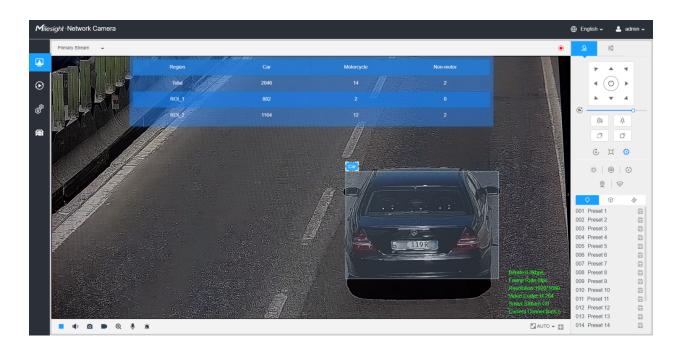
Parameters	Function Introduction
Post Mode	Instant: Immediately post the message.

Parameters	Function Introduction								
	Customize: Configure the time interval to post the message.								
Message Post Setting	js	~							
Enable Message Po	ist 🔽								
Post Mode	• Instant Customize								
Attach Snapshot									
Post Type	• ТСР 🔿 НТТР								
Camera Port	3344	(1-65535)							
Save									

[LPR Interface]

Step6: After completing the above settings, the camera will work to count vehicles, and the statistics report can be displayed on the Live View interface and LPR interface to provide an intuitive experience.

mesigneria	etwork Camera											🕀 English 🗸	💄 admin 🗸
Primary	Stream 👻 Vehicle Cou	unting 🗸										& ≅	
	Region	Car	Motorcycle	Non-motor		2023-01-16	13 58 50	A BANK					-
	Total	681	20					2 ⁴⁷	91				
) 🕨
	ROI_2	165						1 27				.	4
P - 7.1	7 14							SE				6	
	5							17				A	\$
				tan			A BET.			1 2			٥
	1811		<u>e</u>	1			1711					ć 🗆	0
	191						17			ECE			
							1					¢ 0	0 0
						1-1						<u>©</u>	5
	1			E E	43 - A 19	1							
													A
13						P						• • • • •	
			J.				Recognition Result		/pe: Visitor	Plate Color: White	Vehicle Type: Van	001 Preset 1 002 Preset 2	BXA
				0			VC779	Vehicle	Color: Red	Speed: •	Direction: Away	001 Preset 1 002 Preset 2 003 Preset 3	
No.		Snapshot	Plate Type	Plate Color	Vehicle Type	Vehicle Color	VC779 Vehicle Brand				Direction: Away Time Operation	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4	
78	232DE	232DEB	Visitor	Plate Color White	Car	Vehicle Color White	VC779 Vehicle Brand Buick	Vehicle	Color: Red	Speed: - Detection Region 1	Direction: Away Time Operation 2023-01-16 13:57:40 Q B	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5	
		2520615 TEESERGE		Plate Color		Vehicle Color	VC779 Vehicle Brand	Vehicle	Color: Red	Speed: •	Time Operation 2023-01-16 13:57:40 Q IS 2023-01-16 13:57:33 Q IS	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4	
78 77	1232DE 1198G5	232DEB	Visitor Visitor	Plate Color White White	Car Car	Vehicle Color White Black	VC779 Vehicle Brand Buick Hyundai	Vehicle	Color: Red	Speed: • Detection Region 1 2	Direction: Away Time Operation 2023-01-16 13:57:40 Q B	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6	
78 77 76	1232DE 1198G5 19RG	232068 16158827 119807	Visitor Visitor Visitor	Plate Color White White White	Car Car Car	Vehicle Color White Black Black	VC779 Vehicle Brand Buick Hyundai Mercedes-Benz	Vehicle	Color: Red	Speed: • Detection Region 1 2 2 2	Time Operation 2023-01-16 13.57.40 Q. (2) 2023-01-16 13.57.33 Q. (2) 2023-01-16 13.57.25 Q. (2)	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	
78 77 76 75	222DE 1198G5 19RG VC779	232068 1219323 1197838 1197838	Visitor Visitor Visitor Visitor	Plate Color White White White White	Car Car Car Truck	Vehicle Color White Black Black Red	VC779 Vehicle Brand Buick Hyundai Mercedes-Benz Buick	Vehicle	Color: Red	Speed: - Detection Region 1 2 2 2 2	Direction: Away Time Operation 2023-01-16 13:57:30 Q (2) 2023-01-16 13:57:33 Q (2) 2023-01-16 13:57:25 Q (2) 2023-01-16 13:57:13 Q (2)	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10	
78 77 76 75 74	1232DE 1198G5 19RG VC779 I3UGT	232068 1219323 1197838 1197838	Visitor Visitor Visitor Visitor Visitor	Plate Color White White White White White	Car Car Car Truck SUV	Vehicle Color White Black Black Red Red	VC779 Vehicle Brand Buick Hyundal Mercedes-Benz Buick Mitsubishi	Vehicle	Color: Red	Speed: - Detection Region 1 2 2 2 1	Time Operation 2023-01-16 13 57:40 U 2023-01-16 13 57:40 U 2023-01-16 13 57:30 U 2023-01-16 13 57:25 U 2023-01-16 13 57:13 U 2023-01-16 13 57:13 U	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	
78 77 76 75 74 73	1 232DE 1198G5 19RG VC779 33UGT Plates	232068 135923 139929 199299 199299 199299	Visitor Visitor Visitor Visitor Visitor No Plates	Plate Color White White White White White	Car Car Car Truck SUV Car	Vehicle Color White Black Black Red Red Black	VC779 Vehicle Brand Buick Hyundal Mercedes-Benz Buick Mitsubishi	Vehicle	Color: Red	Speed: - 1 2 2 1 1 2	Time Operation 2023-01-16 13:57:40 QIS 2023-01-16 13:57:30 QIS 2023-01-16 13:57:31 QIS 2023-01-16 13:57:32 QIS 2023-01-16 13:57:31 QIS 2023-01-16 13:57:32 QIS 2023-01-16 13:57:34 QIS 2023-01-16 13:57:35 QIS	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10	



Smart Search

Smart Search

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

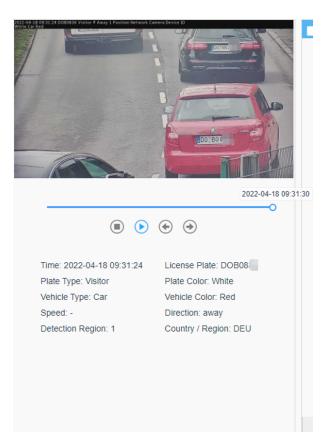
Mile	esight ·Network Came	ra		🕀 English 🗸	💄 admin 🗸
	ස් Media	>	Smart Search		
•	Network	>	Plate Type Visitor V License Plate Start Time 🕜 2022-04-18 00 00 00 End Time 🕜 2022-04-18 23 59 59	More ~	Search
\odot	E Storage		All LPR Logs		
	5 Event	>			
ø	PTZ		2ºBKZ-2 DO&TP 41 B DO&MY	DO KD 2	0
a	lPR	~	2022-04-18 09:29:56 2022-04-18 09:30:10 2022-04-18 09:30:16 2022-04-18 09:30:16	2022-04-18 0	9:30:25
	Settings Smart Search		DO: TD 21 DO: BK 66 MIN: KD 3	PB	2
		>	2022-04-18 09:30:42 2022-04-18 09:30:47 2022-04-18 09:30:49 2022-04-18 09:31:19	2022-04-18 0	9:31:22
			20224419 09 31 30 DO NN 2 BDO BO 8 BO 2 LM 66 DO AE 16	DOSR	51
			 (a) (b) (c) (c) (c) (c) <li(c)< li<="" th=""><th>2022-04-18 0</th><th>9:32:13</th></li(c)<>	2022-04-18 0	9:32:13
			Time: 2022-04-18 09:31:24 License Plate: DOBC Plate Type: Visitor Plate Color: White Vehicle Type: Car Vehicle Color: Red Speed - Direction away Detection Region: 1 Country / Region: DEU	45)	Geto 5
			Eport	Export All	Auto Export

Step1: Select Plate Type and Vehicle Attributes 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.

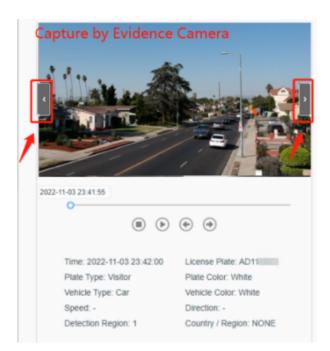
Note:

- 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.

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



Note: If the evidence feature is enabled, you can also click the arrow button on the snapshot to check the image captured by the evidence camera.



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

	Export	×
Export File	Plate List Video Picture Plate List(With pictures)	
Video File Format	MP4 v	
	Save Cancel	

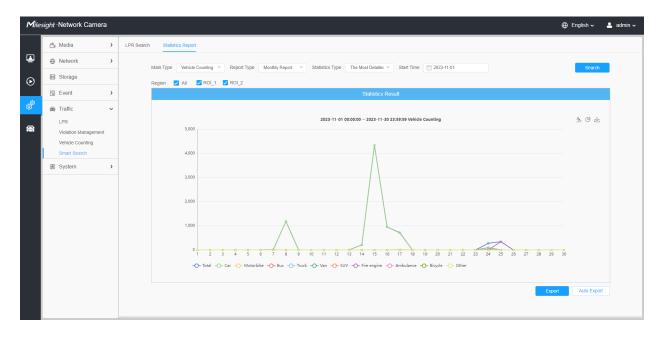
Step4: Click the "**Auto Export**" button to automatically export the logs to FTP, Email or Storage.

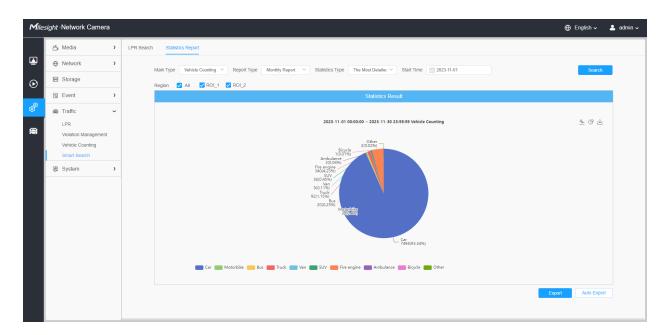
Auto Export	×
Enable	
Day Everyday ~	
Time 🕒 00:00:00	
Export Time Range Export All	
Export to FTP Email Storage	
Save Cancel	

Statistic Report

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

Vehicle Counting:





Parking Detection:

M ile:	<i>sight</i> ∙Network Camera		e) English 🗸	💄 admin 🗸
	🖧 Media	> Park	king Search Statistics Report		
•	Network	>	Main Type Parking Detection V Report Type Daily Report V Statistics Type All V Stat Time 2023-01-11 🕓 00.00	Search	
\odot	🗃 Storage		Statistics Result	_	
<u>^</u>	S Event	>			
ø	📾 Parking	~	2023-01-11 00:00:00 - 2023-01-11 23:59:39 Parking Detection	<u>* ul</u> ±	
8	Parking Management Smart Search		40 Å		
	System	>	30 /		
			-O Pull In -O-Pull Out	Auto Export	

Mile:	<i>sight</i> ·Network Camera	e	🕽 English 🗸	💄 admin 🗸
	🖧 Media 🔹 👌	Parking Search Statistics Report		
•	Network >	Main Type Parking Detection V Report Type Daily Report V Statistics Type All V Start Time 2023-01-11	Search	
\odot	E Storage	Statistics Result		
	S Event			
ø	📾 Parking 🗸 🗸		소ա노	
a	Parking Management Smart Search	40		
	國 System >	30		
		20 10 0 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Pullout	Auto Export	

3.7.6 Parking

Milesight Launch the model of *AI Road Traffic Parking Detection Pro Bullet Plus Camera*, which focuses on **traffic control applications in the parking field** such as roadside parking management and illegal parking management.

Note:

- The Attributes Identification function is enabled by default and does not need to be configured in the parking management configuration.
- Please make sure your model is TSxxxx-FP(C/E)/P.

Parking Management

<u>General</u>

Mile	sight ·Network Camera	I		🕀 English 🗸	💄 admin 🗸
	🐴 Media	>	Getteral Parking Detection Parking Violation Detection		
•	Network	>	Country / Region Europe		
\odot	E Storage		Image Settings		
	5 Event	>	Enable LPR Image Mode 🛛 🕐		
1	📾 Parking	~	Level 4O		
8	Parking Management Smart Search		Save		
	System	>			

[Image Settings]

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

Table 142. Description of the buttons

Parameters	Function Introduction				
Country/ Region (Only for LPR_AP / LPR_ME / LPR_AM)	Select country/ region to detect the license plate.				
Enable LPR Image Mode	To enable LPR Image Mode, parameters of Backlight, Exposure and Day/Night Switch will be set to special values.				
Level	Level 1~5 are available. Note: Minimum Shutter of each Level : 1- 1/250, 2- 1/500, 3- 1/750, 4- 1/1000, 5- 1/2000.				

Parking Detection

Parking Detection function supports the detection and timing of roadside parking occupation. And it can detect the vehicle attributes and license plate attributes of the occupied vehicle, which greatly helps to manage the parking.

Mile:	sight ·Network Camera	a							⊕ English ∽	💄 admin 🗸
	😤 Media	>	General	Parking Detection	Parking Violation Detection					
•	Network	>	51 a 16 a .			Enable 🗸				
\odot	🗃 Storage		anti-	12.000		Detection Settings		~ ·		
	S Event	>			Bitrate: 386 4kbps	Detection Region ①				
¢	📾 Parking	~	100		Frame Rate: 19fps	ID	Name	Operation		
a	Parking Management Smart Search			6	Video Codes H 264	1	ROI_1			
	Smart Search	>			Cubart Prime fore 1	2	ROI_2	28		
			Add	Clear		Delete All				
						Schedule Settings		>		
						Message Post Settings		>		
						Save				

Settings steps are shown as follows:

Step1: Check the check box to enable the Parking Detection function.

Note: After enabling this function, LPR and LPR attribute recognition are enabled by default.

Step2: Draw on the video to set detection regions. Support simultaneous detection of 4 parking spaces. And you can customize the name of the detection area such as the parking space name/number.

[Schedule Settings]

Step3: Set the schedule of monitoring;



Table 143. 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.

[Message Post Settings]

Step4: Set the push frequency, interval, mode and data storage;

Message Post Settings		~
Post Conditions		
Pull in / out	V 1	s (1-900) Later
Periodic Post		
Period	10	min (10-60)
Mode		
Attach Snapshot		
Post Type	• TCP O HTTP	
Camera Port	3344	(1-65535)
Storage		
Save Snapshot	(i)	
Save		

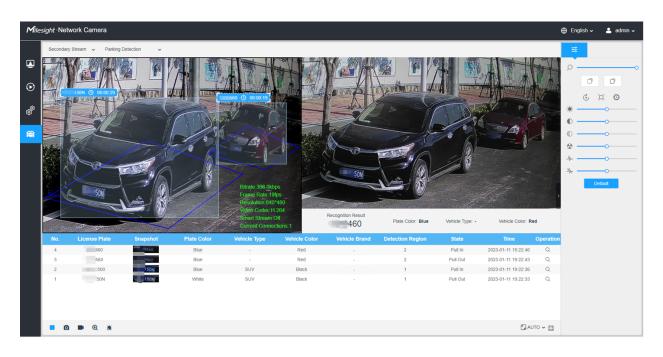
Table 144. Description of the buttons

Parameters	Function Introduction				
Post Conditions	 Pull In/Out: If the "pull in/out" box is checked, the parking information will be pushed every time a car enters/leaves the parking space; In addition, if the post again time is also set, the corresponding time will push the individual parking space information again after the approach/departure. Periodic Post: In accordance with the configured period, the parking information for all parking spaces will be periodically transmitted via HTTP/TCP. 				
Mode	Attach Snapshot: The current capture will be attached push when the push is triggered. Post Type: Information can be pushed by TCP or HTTP.				
Storage	Click to save the Pull in/out capture.				

Step5: Save the configuration.

[LPR Interface]

Step6: After completing the above settings, the camera will work to detect and timing of roadside parking occupation.



Parking Violation Detection

Parking Violation Detection function supports real-time detection, timing and trigger alarm of illegal parked vehicles. Also, it can detect the vehicle attributes and license plate attributes of the illegal parked vehicles.

This function can be applied to parking areas for special vehicle types, such as ambulance and fire truck parking areas or bus parking areas, by setting the allowed vehicles as needed. And Residence Time can be set to apply this function to the time-limited parking areas, and the alarm will be triggered when the vehicle is parked over time. There are more application can be expanded by setting schedule, such as parking is allowed at night and not allowed during the day. This function is excellent for helping with traffic parking control.

Mile	sight ·Network Camera											🕀 English 🗸	💄 admin 🗸
	සී Media	>	General	Parking Detection	Parking Violation Detection								
	Network	>			Marine Marine	Ena	able	~					
\odot	E Storage						Detection Settings	- -			>		
	5 Event	>			Bibgle 597 1kbps		Schedule Settings				,		
ø	📾 Parking	~			Prame Pate 19/ps		Parking Violation Settings				~		
	Parking Management Smart Search				Video Codec:H.261 Smart Stream Eff		Permitted Vehicles	(Fire Engine + 1				
	I System	>			Current Connections		Residence Time		0	s (0-3600)			
			Add	Clear			Record				>		
							Snapshot)		
							External Output	t			>		
							Play Audio (Ple	ase ens	able the Audio Speaker.)				
							Alarm to SIP Pr	ione (Please open the SIP:)				
							HTTP Notification	on			>		
							Save						

Settings steps are shown as follows:

Step1: Check the check box to enable the Parking Violation Detection function.

Note: After enabling this function, LPR and LPR attribute recognition are enabled by default.

Step2: Draw on the video to set detection regions. Support simultaneous detection of 2 illegal parking areas and the single illegal parking area can detect multiple illegal parked vehicles. And you can fill in the name of parking violation area.

[Schedule Settings]

Step3: Set a schedule to enable Parking Violation Detection;



[Parking Violation Settings]

Step4: Set the illegal parking conditions like permitted vehicles and residence time.

Table 145	Description	of the buttons
-----------	--------------------	----------------

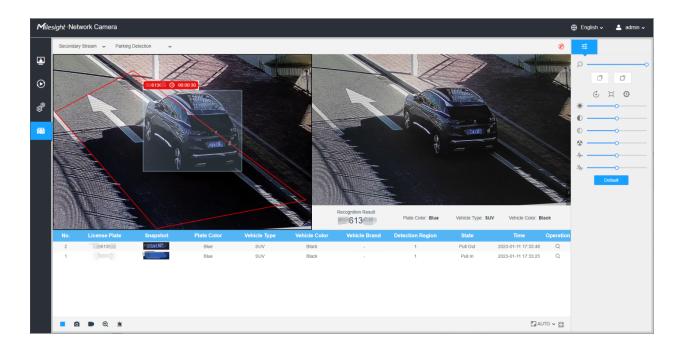
Parameters	Function Introduction		
Permitted Vehicles	Choose different types of vehicle to be permitted to parking if lane is exclusive. If an unselected vehicle type is identified and parked, it will be judged as illegal parking.		
Residence Time	Set the dwell time, if vehicle stay beyond this time, vehicle will be judged as illegal parking.		

Step5: Set alarm action. Refer to the table <u>Table 4 (page 87)</u> for the meanings of the items, here will not repeat again.

Step6: Save the configuration.

[LPR Interface]

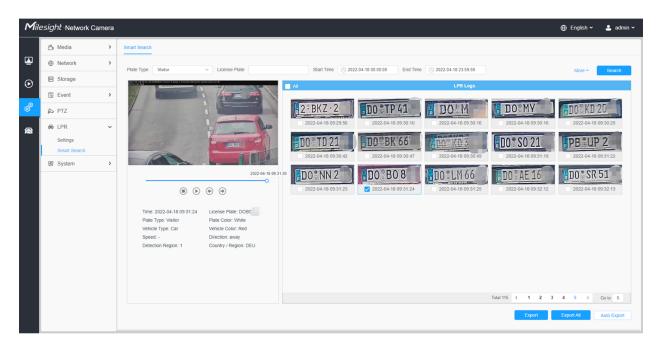
Step6: After completing the above settings, the camera will work to detect, timing and trigger alarm of illegal parked vehicles. And the illegal parking alarm icon will appear on the LPR interface when the alarm is triggered.



Smart Search

Smart Search

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

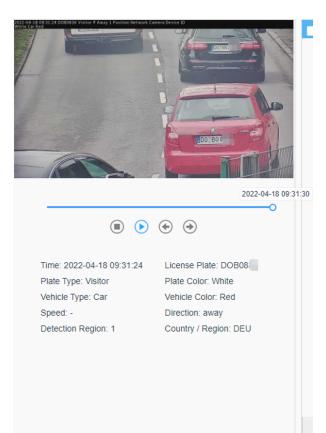


Step1: Select Plate Type and Vehicle Attributes or directly enter the license plate number and then select Start Time and End Time. The related license plate information will be displayed as below by one click on the "**Search**" button.

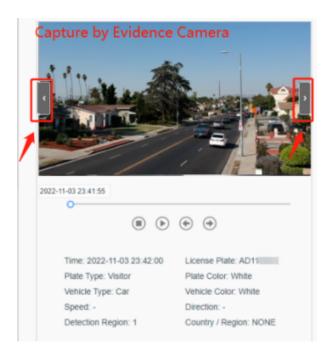
Note:

- 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.

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



Note: If the evidence feature is enabled, you can also click the arrow button on the snapshot to check the image captured by the evidence camera.



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

	Expor	t	×
Export File	Plate List Vide		
Video File Format	MP4	~	
	Save	Cancel	

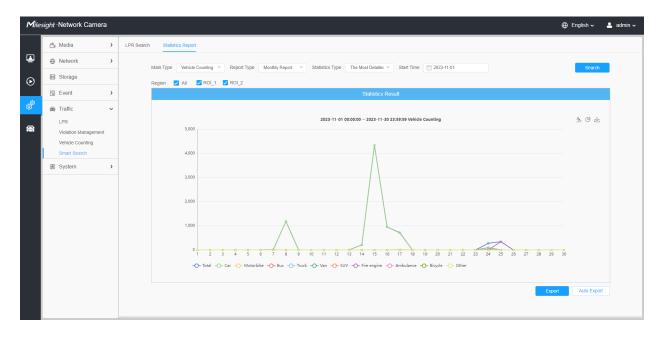
Step4: Click the "**Auto Export**" button to automatically export the logs to FTP, Email or Storage.

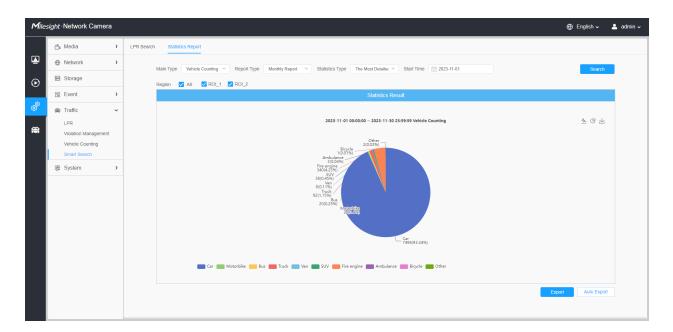
Auto Export	×
Enable	
Day Everyday ~	
Time 🕒 00:00:00	
Export Time Range Export All	
Export to FTP Email Storage	
Save Cancel	

Statistic Report

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

Vehicle Counting:





Parking Detection:

Mile:	sight ·Network Camera		e	🕽 English 🗸	💄 admin 🗸
	🖧 Media	Parking Se	earch Statistics Report		
•	Network	>	Main Type Parking Detection V Report Type Daily Report V Statistics Type All V Start Time 2023-01-11 🕓 00.00	Search	
\odot	🗑 Storage		Statistics Result	_	
	S Event	>			
ø			2023-01-11 00:00:00 ~ 2023-01-11 23:93:93 Parking Detection	쇼 @ 논	
a	Parking Management Smart Search		40		
	System	>	30 /		
			20 0 </th <th>Auto Export</th> <th></th>	Auto Export	

Mile:	sight ·Network Camera	⊕ En	nglish 🗸 ,	💄 admin 🗸
	🖧 Media	Parking Search Statistics Report		
•	Network	Main Type Parking Detection V Report Type Daily Report V Statistics Type All V Statt Time 2023-01-11 0 00.00	Search	
\odot	🖹 Storage	Sitatistics Result		
	S Event	3		
ø	Re Parking		소 🛍 🛨	
۲	Parking Management Smart Search	40		
	國 System) 30		
		20 10 10 10 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Exort	Aulo Export	

3.7.7 System

System Setting

System info

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

Mile	sight ·Network Camera		🕀 English 🗸	💄 admin 🗸
	සී Media >	System Maintenance Auto Reboot		
	Network	System Upgrade ①		
€	🚍 Storage	Software Version 45.8.0.2.LPR_EU-14		
	5 Event >			
Ø	© PTZ	Reset after Upgrading		
	lPR >	Online Upgrade Check		
	@ System ~	/ Maintenance		
	System Setting Security Logs	Reset		
	Maintenance	Export Diagnose Info Export		
		Export Config File Export		
_		Import Config File		
		Reboot		
_		Reboot the Device Reboot		

Parameters	Function Introduction		
Device Name	The device name can be customized.		
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)	LPR3, Image: Description of the second s		
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.		
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.		

Table 146. Description of the buttons

Date&Time

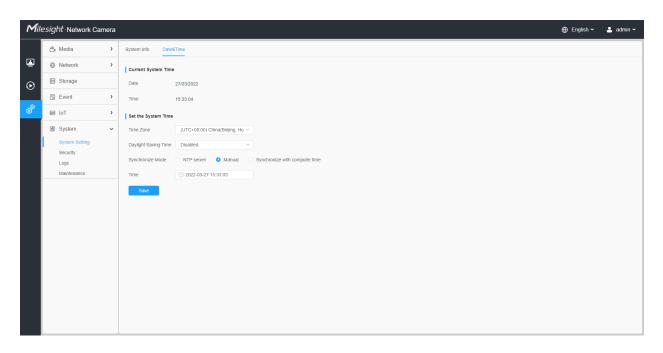


Table 147. Description of the buttons

Parameters	Function Introduction	
Current System Time	Current date&time of the system.	
	Time Zone: Choose a time zone for your location.	
	Daylight Saving time: Enable the daylight saving time.	
	Synchronize Mode: NTP server, Manual and Synchronize with computer time are optional.	
Set the System Time	NTP server: Input the address of NTP server.	
	NTP Sync: Regularly update your time according to the interval time.	
	Manual: Set the system time manually.	
	Synchronize with computer time: Synchronize the time with your computer.	
Save	Save the configuration.	

Interfaces

Wiegand

Here you can enable the Wiegand interface for access control. Currently it supports Wiegand 26bit protocol by default.

Mil	Milesight Network Camera				
	🚔 Media	>	Wiegand		
i	Wetwork	>	Enable 🗸 🛈		
\odot	🗄 Storage		Protocol Wiegand 26bit		
	🗟 Event	>	Save		
Ô	📾 LPR	>			
e t	ন্থ System	~			
	System Setting				
	Interfaces				
	Security				
	Logs				
	Maintenance				

Note: Please make sure the camera has been correctly connected to your parking system through the Wiegand interface as shown below.

- GND and A (Wet contact for External Output).
- A, B and GND (DATA0, DATA1 and GND for Wiegand).

Security

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

<u>User</u>

Mile	esight ·Network Ca	amera			
	🗂 Media	>	User Online User Access L	List Security Service	Watermark About
	Network	>	Manage Privilege		
\odot	🗄 Storage		Allow Anonymous Viewing		
	Event	>	Security Question		
ø	e loT	>	Security Question Edit		
	System	~			
	System Setting		Account Management ①		
· · · ·	Security Logs		ID User Name 1 admin	Privilege Administrator	Operation
-	Maintenance		Add		
			Save		

Table 148. 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	Function 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 G	Question Settings ×			
	Admin Password*				
	Security Question1 Wh	at's your father's name?			
	Answer1*				
	Security Question2 Wh	at's your father's name?			
	Answer2*				
	Security Question3 Wh	at's your father's name?			
	Answer3*				
Security Question	Save	Cancel			
	There are twelve default questions to questions.	pelow, 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
Account Management	Click "Add" button, it will display Account Management page. You can add an account to the camera by entering Admin Password, User Level, User Name, New Password, Confirm, and edit user privilege by clicking Save 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. 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: Support up to 20 users, including a default user and 19 custom added users. The operator privilege is all checked by default.

Online User

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

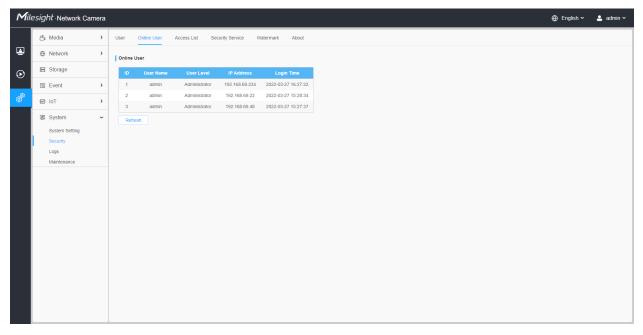


Table 149. Description of the buttons

Parameters	Function Introduction
Refresh	Click to get latest status of user accessing to camera.
ID	 Record serial number of user logging in camera. Note: There are at most 30 records shown at the list. There is only one record if the same user logs in camera by the same IP address.
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.

Access List

Mile	≘ <i>sight</i> ∙Network Ca	amera			
	🖧 Media	>	User Online User Access L	ist Security Service	e Watermark About
•	Network	>	General Settings		
\odot	E Storage		Max. Number of Connection 10		×
	5 Event	>	Access List		
ø	loT ₪	>	Enable Access List Filtering		
	I System	~	Filter Type O Alle	ow 💿 Deny	
	System Setting Security		ID Rule	Address	Operation
	Logs			No Data	
	Maintenance		Add Delete All		
			Save		

Table 150. 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.
Access List	Enable Access List Filtering: Able to access or restrict access for some IP address.

Parameters		Function Introduction			
	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.			
	<u></u>	Edit the selected IP on access list.			
		Delete the selected IP on access list.			
Save	Save the configuration.				

Security Service

Mile	esight ∙Network Ca	amera								🕀 English 🗸	💄 admin 🗸
	😤 Media	>	User Online User	Access List	Security Service	Watermark	About				
•	Network Network	>	SSH Settings								
\odot	E Storage		Enable 🔽								
	S Event	>	SSH Port 6022								
ø	e loT	>	Save								
	🗷 System	~									
	System Setting										
	Security Logs										
	Maintenance										
		_									

Table 151. Description of the buttons

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

Watermark

Mile	esight •Network Ca	mera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	User Online User Access List Security Service Watermark About		
۲	Network Network	>	Watermark Settings		
\odot	😫 Storage		Enable		
	Event	>	Watermark String IP CAMERA		
ø	e loT	>	Save		
	System	~			
	System Setting Security Logs Maintenance				

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

<u>About</u>

Mile	sight Network C	amera							🕀 English 🗸	💄 admin 🛩
	🖧 Media	>	User	Online User	Access List	Security Service	Watermark	About		
	Network	>	Open So	ource Software	Licenses					
\odot	E Storage		Vier	w Licenses						
	Event	>								
ø	፼ loT	>								
	System	~								
	System Setting									
	Security									
	Maintenance									

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

Logs

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

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

Table 152. Description of the buttons

Parameters	Function Introduction
Main Type	There are five main log types: All Type, Event, Operation, Information, Exception and Smart.
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.
Export	Export the logs.

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

Maintenance

Here you can configure System Maintenance and Auto Reboot.

System Maintenance

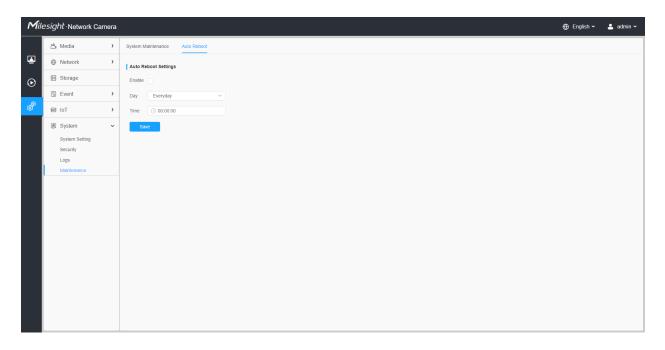
Mile	esight Network Came	ra		🕀 English 🗸	💄 admin 🗸
	🛱 Media	>	System Maintenance Auto Reboot		
	Network	>	System Upgrade ①		
\odot	Storage		Software Version 45.8.0.2.LPR_EU-r4		
	5 Event	>	Local Upgrade		
Ø	🔊 PTZ		Reset after Upgrading		
	📾 LPR	>	Online Upgrade Check		
	國 System	~	Maintenance		
	System Setting Security		Reset Reset Keep the IP Configuration Keep the User Information		
	Logs Maintenance		Export Diagnose Info		
			Export Config File Export		
			Import Config File		
			Reboot		
			Reboot the Device Reboot		

Table 153. Description of the buttons

Parameters	Function Introduction				
	Software Version: The software version of the camera.Local Upgrade: Click the "Browse" button and select the upgrading file, then click the "Upgrade" button to upgrade. After the system reboots successfully, the update is done.You can check "Reset after Upgrading" to reset the camera after upgrading it.Online Upgrade: Click the "Check" button to check the current latest firmware version on our website, and then click "OK" to upgrade to this version.It will prompt "The current version is the latest version" if your camera is already the latest version.				
System Upgrade	Tips ×				
	! The current version is the latest version.				
	ок				
	Note: 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: Imput 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 Input the encryption password Save Cancel Note: Export and import the same configuration file. Password must be the same.

Auto Reboot



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

Chapter 4. Parking Management

4.1 Product Description

4.1.1 Product Overview

Occupancy Detection based on AI algorithm can realize simultaneous detection and management of up to 100 parking spaces with up to 98% detection accuracy. Parking Detection with LPR based on AI LPR algorithm can realize simultaneous detection and management of up to 4 parking spaces with LPR. These two parking management modes greatly helps guide parking and realizes more efficient and intelligent parking management.

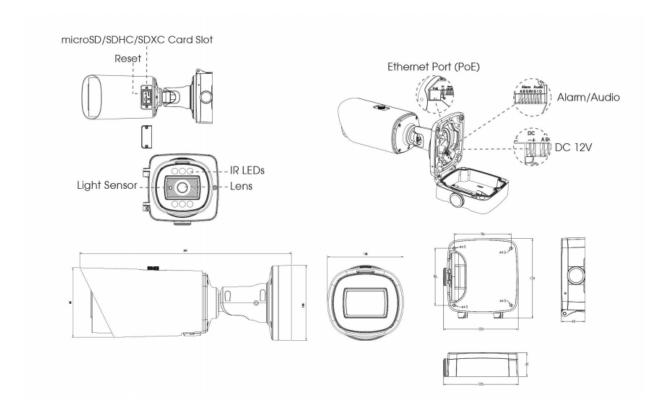
4.1.2 Related Product

Table 154.

Product	Name
	Al Outdoor Parking Management Pro Bullet Plus Camera

4.1.3 Hardware Overview

• Al Outdoor Parking Management Pro Bullet Plus Camera



4.1.4 Benefits of the Camera

Intelligent AI Parking Space Detection Algorithm

Occupancy Detection based on AI algorithm can realize simultaneous detection and management of up to 100 parking spaces with up to 98% detection accuracy. Parking Detection with LPR based on AI LPR algorithm can realize simultaneous detection and management of up to 4 parking spaces with LPR. These two parking management modes greatly helps guide parking and realizes more efficient and intelligent parking management.

Excellent Scene Adaptability

With a series of cutting-edge image technologies, AI Outdoor Parking Management Pro Bullet Plus Camera has excellent scene adaptability. The wide field of view of the motorized zoom lens allows for a wider monitoring range, while the 4K resolution ensures that the images are sharp enough. In addition, under the 1/1.8" STARVIS starlight sensor and image-based frame accumulation technology, it also ensures the detection of parking lots at night, providing 24/7 surveillance monitoring.

High compatibility

To maximize the usability and compatibility, the AI Outdoor Parking Management Pro Bullet Plus Camera supports CGI/APIs, which allows the easy open integration with third-party platforms. The network protocol such as HTTP(s) offers a wide range of options for data processing. The parking information is transmitted to the third-party parking system to help form a complete set of solutions, guide the driver to find the parking space quickly and realize intelligent management.

Unique Structure Design

The unique structure design of the camera enlarges the space and greatly saves efforts for installers, such as the integrated cable management bracket. And the IP67-rated weather proofing and IK10-rated vandal proofing allow to protect the camera against adverse impacts to ensure the robust performance.

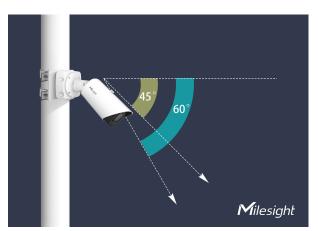
Flexible Configuration

The configuration of Parking Space Detection is very flexible and convenient. Area Name, Planned Spaces of Area, Distribution and Numbering Scheme of the detection area can be customized, which provides a easy detection area configuration method and conforms to user habits. And the red overlay of the occupied parking space provides a more intuitive interface.

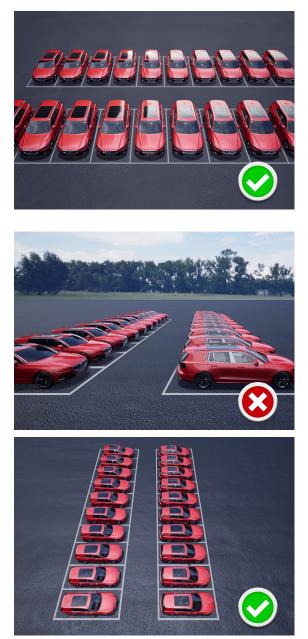
4.1.5 Installation Guide

Occupancy Detection Installation Suggestions

1. The installation angle should not be too small, otherwise the cars will obscure each other. Recommended angle range: 45°~60°.



2. The camera should not be installed to shoot against the wide side of the car, or the car will be badly blocked between each other. If it can not be avoided, a very high installation height is needed to prevent obscuring.



- 3. Recommended installation height: 3.5m~10m. The higher the height, the less obscuring and the better the algorithm accuracy will be.
 - Example 1:

	5m 2.5m	
Camera Installation Height: 10m	5m	

Table 155. Parking Space Information

Parking Space Size	Lane Width	Number of Parking Spaces
2.5mx5m	5m	7x14=98

Table 156. Camera Information

Number of	Installation	Installation	Min. Distance to
Cameras	Height	Angle	Parking Space
1	10m	45°	

• Example 2:

Camera A	
5m 000000000000000000000000000000000000	
	5m
Camera Installation Height: 3.5m	2.5m Camera B

Note: The red car area is detected by Camera A, and the blue car area is detected by Camera B.

Table 157. Parking Space Information

Parking Space Size	Lane Width	Number of Parking Spaces
2.5mx5m	5m	2x16=32

Table 158. Camera Information

Number of	Installation	Installation	Min. Distance to
Cameras	Height	Angle	Parking Space
2	3.5m	48°	2.5m

4.1.6 Related Documents

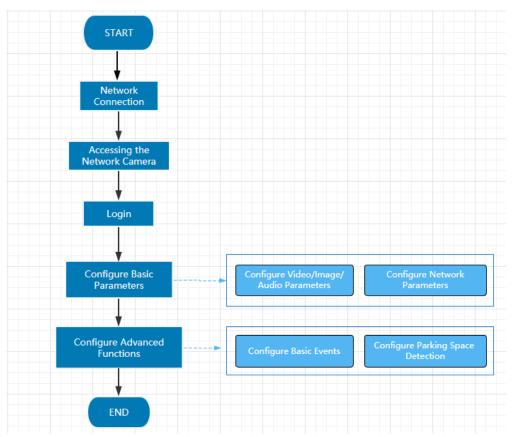
Table 159.

Document Type	Link
	Al Outdoor Parking Management Camera

Document Type	Link
Datasheet	https://www.milesight.com/static/file/en/download/datasheet/ipc/Milesight-Al- Outdoor-Parking-Management-Pro-Bullet-Plus-Camera-Datasheet-en.pdf
Quick Start Guide	https://www.milesight.com/static/file/en/download/user-manual/ipc/Milesight- Network-Camera-Quick-Start-Guide.pdf

4.2 Configuration Flow

The configuration flow of AI Outdoor Parking Management Camera is shown in the following figure.



More configuration details is shown in the following table.

Table 160. Description of flo

Configuration	Description	Reference
Network Connection	Connect the network camera. You can set the camera over the LAN or dynamic IP connection.	Setting the Camera over the LAN (page 12)

Configuration	Description	Reference		
Accessing the Network Camera	Accessing from IP address, web browser and Milesight back-end software are available.	Assigning an IP Address (page 13)		
Configure Basic Parameters After login the camera, you can adjust the video/image/audio/network parameters as needed.		<u>Video (page 34)</u> Image (page 37)		
Configure Advanced Functions	Configure the Basic Event and Parking Space Detection.	Motion Detection (page 83) 4.7.5 Parking Management (page 399)		

4.3 Network Connection

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.

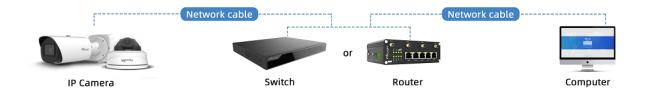
Connect the Camera to the PC Directly

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.



Connect via a Switch or a Router

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



Dynamic IP Connection

Step1: Connect the network camera to a router;

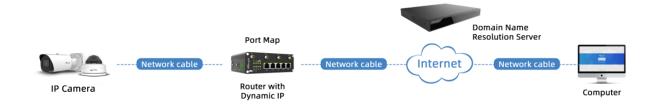
Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;

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.



4.4 Accessing the Network Camera

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

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;

	5			<u>()</u>	<u> </u>		0—	G			admin	≱ — □
	S IF	°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	Θ
	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	Θ
	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
	12	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266-X4G	2022-03-15 11:	45.8.0.1-AIo	Θ
	13	Network Camera	Active	1C:C3:16:24:09:D2	192.168.69.96	80	255.255.240.0	192.168.69.1	MS-C2964-FPB	2022-01-09 17:	40.7.0.79-r7	Θ
	14	Network Camera	Active	1C:C3:16:24:60:AA	192.168.69.97	80	255.255.255.0	192.168.69.1	MS-C5375-EPB	2022-03-14 18:	41.7.0.76-r3	Θ
	15	Network Camera	Active	1C:C3:16:2A:06:91	192.168.69.98	80	255.255.255.0	192.168.69.1	MS-C5367-X23PC	2022-03-15 09:	45.7.0.79-r30	Θ
	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	Θ
	17	Network Camera	Active	1C:C3:16:24:60:F7	192.168.69.125	80	255.255.255.0	192.168.69.1	MS-C2975-PB	2022-03-10 20:	40.7.0.79-r7	Θ
	18	Network Camera	Active	1C:C3:16:2B:5F:D2	192.168.69.128	80	255.255.255.0	192.168.69.1	MS-C8166-FILPC	2022-03-11 10:	45.7.0.79-LP	Θ
` 												
		Device Name: Netv	vork Came	era IP: 192.168.6	9.204 Ports	80	Netmask:	255.255.255.0	Gateway: 19	2.168.69 .1	DNS: <mark>8.8.</mark> 8	.8
									(f) Activate	🛓 Export Devic	e List 🗙 M	
perat	ting Ir	nformation							Ŭ	Ŭ	<u> </u>	
											-	
										🙂 Sa	we 🗵	
										<u> </u>	<u> </u>	

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

Select single camera:

C	, IF	PC Tools		Network	— 🗙 — Setting	 P	review L	G Ipgrade			admin A Password	
•	No.	Device Name 🔺	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
-	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
-	19	Network Camera	Active	1C:C3:16:2B:C4:C9	192.168.69.134	80	255.255.255.0	192.168.69.1	MS-C2967-X23R	2022-03-14 14:	45.8.0.1-a2	0
r	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
r	21	Network Camera	Active	1C:C3:16:27:60:43	192.168.69.137	80	255.255.240.0	192.168.69.1	LS2914-ZYNX36	2022-02-11 09:	41.7.44.78-a	0
-	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
-	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
-	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
n	27	Network Camera	Active	1C:C3:16:11:58:AD	192.168.69.211	80	255.255.255.0	192.168.69.1	NC9674-PA	2022-03-15 14:	32.8.1.1-a2	0
1/38		Device Name: Net	work Came	era) I2: (192.168.6	9 .204 Port:	80) Netmask:	255.255.255.0	Gateway: 19	2.168.69 .1	DNS: 8 .8 .8 e List XM	
951	ioung i											
										🕒 Sa	ive 🚫 C	lear

Select multiple cameras:

¢	, IP	PC Tools		Network			review L	O Jpgrade					
	No.	Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model Ru	n-up Time	Version	Webpage	
0	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	
С	10	Network Camera	Active	1C:C3:16:27:6B:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373 2022-	-03-11 20:	41.7.0.79	Θ	
	.1	Network Camera	Active	1C:C3:16:2A:07:33	192.168.69.60	80	255.255.255.0	192.168.69.1	MS-C2967 2022-	-03-15 14:	45.7.0.80-LP	0	
	.2	Network Camera	Active	1C:C3:16:20:10:43	192.168.69.61	80	255.255.240.0	192.168.69.1	MS-C2963 2022-	-03-03 13:	43.7.0.79-LP	0	- 11
•	.3	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266 2022-	-03-15 11:	45.8.0.1-AIo	0	С
	.4	Network Camera	Active	1C:C3:16:24:09:D2	192.168.69.96	80	255.255.240.0	192.168.69.1	MS-C2964 2022-	-01-09 17:	40.7.0.79-r7	0	
•	.5	Network Camera	Active	1C:C3:16:24:60:AA	192.168.69.97	80	255.255.255.0	192.168.69.1	MS-C5375 2022-	-03-14 18:	41.7.0.76-r3	0	
	.6	Network Camera	Active	1C:C3:16:2A:06:91	192.168.69.98	80	255.255.255.0	192.168.69.1	MS-C5367 2022-	-03-15 09:	45.7.0.79-r30		- 11
	.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	
7/38		Same IP	Start IP: (192.168.69 .96	Port: 80	 N	letmask: 255.255	.240.0	Gateway: 192.168.	69 .1	DNS: 8 .8	3 .8 .8	
Opera	nting Ir	formation							Activate	Export I	Device List	X) Modify	
							V2.4.0.4			e	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.

		Network	– 🛞 — Setting		— 🌀 Upgrade			Ø − □ × nin sword rch here
) IPC Tools	· · · · · · · · · · · · · · · · · · ·	Status MAC nactive 1C:C3:16:24:09:D2 Activation		Port Netmask 80 255.255.255.0 20 255.055.010.0	Gateway 192.168.5.1 × 168.7.1 × 168.5.1 168.7.1 168.7.1	Nodel MS-C2964-FPB MS-C3762-FIPB MS-C4472-FIPB MS-C2975-PB MS-C5362-EPB	Run-up Time 2018-12-19 17:48:04 2018-12-21 17:43:15 2018-12-24 15:00:51 2018-12-24 17:02:43 2018-12-18 16:10:37	Version 40.7.0.65-pwd- a6 41.7.0.65-pwd- a6 41.7.0.68-a6 40.7.0.68 41.7.0.65-pwd- a6
NVR Tools	User Name: admin Password: Confirm: Set the Security Question Security Question 1: What's y Security Answer 1:	our father's name? our father's name?		· ·	168.2.1 168.5.1 168.7.1 168.7.2 168.7.2		2018-12-21 16:44:30 2018-12-18 13:38:35 2018-12-20 13:27:14 2018-12-18 2018-06-15 17:10:58 2018-06-15 17:10:58 2018-12-20 16:15:03 2018:07:04	41.70.68-a6 (40.70.67-421 (40.70.67-421 (41.70.67-412 (41.70.67-412 (41.70.65-44 (41.70.65-9wd- a6 (41.70.50)) (41.70.65-9wd- a6 (41.70.50)) (41.70.70))) (
Œ	Security Answer 2:	our father's name?			255.0	Gateway 192.1	68.5 .1 DN	18: 8 .8 .8 .8 ist X Modify
Calculators	L			(4) V2.4,0,1-a8	Save		🕒 sav	ve 🚫 Clear

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

		C Tools			Setting				Upgrade		Q Sea	irch here	
•	No.	Device Name	Status	MAC	I	P 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
0	58	Network Camera	Active	1C:C3:16:90:81:5E	192.16	8.7.92	80	255.255.240.0	192.168.7.1	NC9674-PB	2019-09-24 17:36:18	43.7.1.72	e
	59	Network Camera	Active	1C:C3:16:20:00:EF	192.16	8.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-09-23 14:06:52	41.7.0.72-a5	e
0	60	Network Camera	Active	1C:C3:16:21:00:22	192.16	8.7.104	80	255.255.240.0	192.168.7.1	MS-C2962-FIPB	2019-09-02 03:22:14	40.7.0.69-r11	6
	61	Network Camera	Active	1C:C3:16:24:09:	192.16	8.7.114	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-09-30 08:55:39	40.7.0.72	6
С	62	Network Camera	Active	1C:C3:16:23:01:39	192.16	8.7.124	80	255.255.240.0	192.168.9.2	MS-C2962-FPB	2019-09-26 08:28:26	41.7.0.71-r35	e
	63	IPCAM	Active	1C:C3:16:21:FA:67	192.16	8.7.132	80	255.255.255.0	192.168.5.1	MS-C3772-FIPB	2019-09-27 11:25:49	41.7.0.71-r15	e
С	64	Network Camera	Active	1C:C3:16:24:66:A1	192.16	8.7.161	80	255.255.240.0	192.168.5.1	MS-C2962-FPB	2019-09-26 09:46:16	40.7.0.71-r8	e
	65	Network Camera	Active	1C:C3:16:22:19:6F	192.16	8.7.201	80	255.255.240.0	192.168.7.1	MS-C9674-PB	2019-09-17 11:20:43	43.7.0.72-fsh- autotrack-a2	C
	66	Network Camera	Active	1C:C3:16:22:01:0B	192.16	8.7.202	4200	255.255.240.0	192.168.7.2	MS-C9674-PB	2019-07-31 23:53:33	42.7.0.67-r1	e
r i	67	202大会议室1	Active	1C:C3:16:21:01:10	192.16	8.7.212	80	255.255.240.0	192.168.7.1	MS-C2972-FPB	2019-09-25 14:19:04	40.7.0.71-r15	e
	60	2007十个约定2	Activo	10-02-16-01-00-	102.16	07.01/	00	255 255 240 0	102 169 7 1	NS C2072 PD	2019-09-26	40 7 0 71 -15	C
		Device Name: etwor	k Camer	a IP: 192.168.7	.114	Port: 80		Netmask: 255	5.255.240.0	Gateway: 192.	168.7 .1 DN	S: 8.8.8.8	
									G') Activate	Export Device Lis	st 🗙 Mod	
Operati	ing Info	rmation							9			\smile	
1	2019	9-09-30 09:10:53			1C:C3:16	:24:09:D2]	Modif	fy IP:192.168.7.113	3->192.168.7.11	4 successfully.			

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

-	Language English
Network Carriera Admin Image: Carriera and Carrie	
Copyright © 2022 Milesight, All Rights Reserved.	

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

Assign An IP Address via Browser

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

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

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

Internet Protocol Version 4 (TCP/IPv4) I	Properties ?					
General						
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
Obtain an IP address automatical	ŷ					
Use the following IP address: P address:	102 100 1 10					
	192 . 168 . 1 . 10					
Subnet mask:	255 . 255 . 255 . 0					
Default gateway:	192 . 168 . 1 . 1					
 Obtain DNS server address autom Use the following DNS server addr 						
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 Setti	ngs	_	2	x
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 metri Interface metric:	c			
		ОК	Can	icel
TCP/IP Address	-	-	2	x
IP address:	192.1	68.5.6	1	
Subnet mask:	255 . 2	55.255.0)	
	C	Add	Cance	

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

Step3: You need to set the password first when using it for the first time. And you can also set three security questions for your device after activation. Then you can log in to the camera with the user name (admin) and a custom password.



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

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

Mile	esight Network Came	era			🕀 English 🗸	💄 admin 🗸
	📸 Media	>	TCP/IP HTTP	RTSP UPnP DDNS Email FTP		
	Network	~	IPv4			
\odot	Basic Advanced		Туре	Static ODHCP		
ø	Storage		IP Address	192 . 168 . 69 . 66 Test		
Ø	Event	>	IPv4 Subnet Mask	255 . 255 . 255 . 0		
	le System	>	IPv4 Default Gateway	192 . 168 . 69 . 1		
			Preferred DNS Server	8 . 8 . 8 . 8		
			IPv6			
			IPv6 Mode	Manual V		
			IPv6 Address			
			IPv6 Prefix			
			IPv6 Default Gateway			
			мти			
			MTU	1500 1200-1500 Bytes		
				Save		

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

Step6: The change of default IP address is completed.

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.

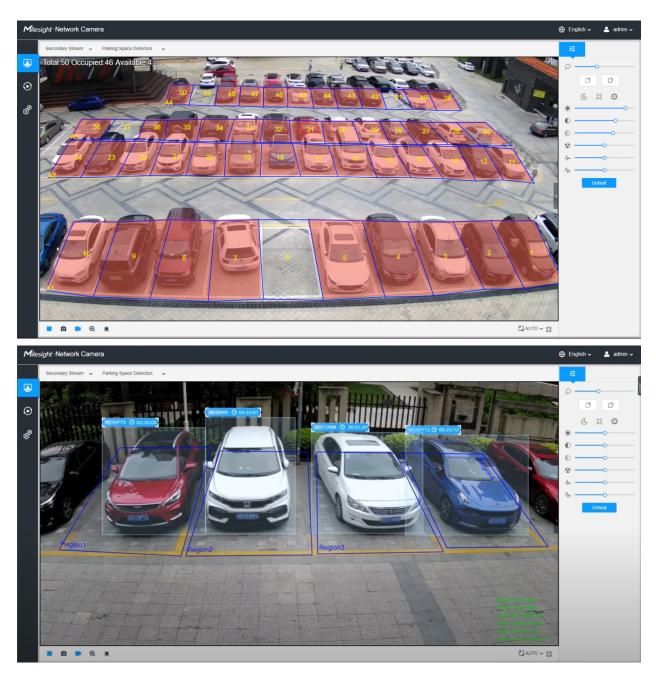
Note:

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

4.5 Live View

Live Video

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



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.
5	💄 admin 🛩	Display the user name and click to logout.
6	Primary Stream 🗸	Choose the stream (Primary/Secondary/Tertiary) to show on the current video window.
7	Hide Detection Region ~	Choose the options (Hide Detection Region/Parking Space Detection) to hide/display detection region on the current video window.
8	Recording	When recording, the icon appears.
9	R Alarm	When an alarm of Motion Detection was triggered, the icon appears.

Table 161. Description of the buttons

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

No.	Parameter	Description
		Lens Initialization, Auxiliary Focus and Auto Iris.
		= Note:
∳ ¢	J 🗘 😳	 The Auto Iris is turned on by default when your camera is equipped with auto focus lens. The Auto Iris support turn on/off when your camera is equipped with P-Iris.
	*	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/3D DNR: Adjust the noise reduction level.
	Default	Default : Restore brightness, contrast and saturation to default settings.

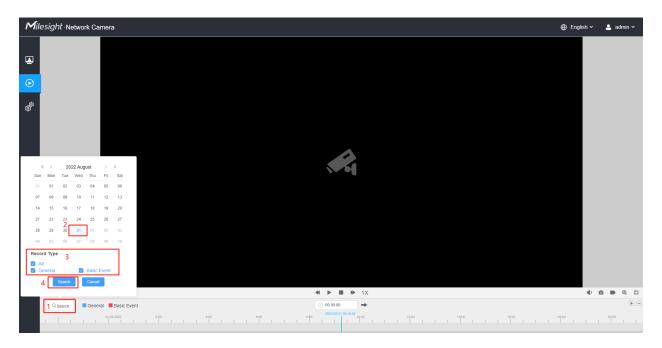
4.6 Playback

Playback

Click ot 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.

Note: You can also input the time and click to locate the playback point in the filed. You can also click to zoom out/in the progress bar.

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 162. Description of the buttons

No.	Parameter	Description
QSearch	Image Image 2022 August Image Image <thimage< th=""></thimage<>	Search the recorded videos by record type (All/General/ Basic Event). The timeline will show different colors according to selected record type as below:
1	Speed Down/Speed Up/Speed	Adjust the speed of video playback. Speed Down: Includes 0.5X and 0.25X for Play. Speed Up: Includes 2X and 4X for Play. Speed: The default playback speed is 1X
2	Play/Pause	Play/Pause the video.

No.	Parameter	Description		
3		Stop the video.		
	Stop			
4	Search Time	Select the time that want to locate.		
5	Jump	Go To.		
	Jump			

Table 163. Description of the buttons

No.	Parameter	Description
1	بڑ » Mute	Click to enable the audio.
2	© Snapshot	Click to take a snapshot.
3	Start/Stop recording	Click to start/stop recording.
4	Q Digital Zoom	Click to zoom on/off .
5	Full Screen	Full Screen.
6	Time Expand/Narrow	Time narrow/expand.

4.7 Settings

4.7.1 Media

Video

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

Primary Stream Settings

sight Network Camera					🕀 English 🗸
📸 Media 🗸	Primary Stream Secondary Stre	eam Tertiary Stream			
Video					
Image	Record Stream Type G	General E	Event		
Audio	Enable				
Network >	Video Codec H.264	✓ H.264	~		
E Storage	Frame Size 1920*108	80 ~ 1920*1080	0 ~		
5 Event >					
	Maximum Frame Rate 25	~ 25	 ✓ fps 		
System >	Bit Rate 4096	× 4096	 ✓ kbps 		
	Smart Stream Off	✓ Off	~		
	Bit Rate Control CBR	✓ CBR	~		
	Profile Main	✓ Main	~		
	I-frame Interval 50	50	frame(1-120)		
	Save	•			

Secondary Stream Settings

Mill	esight ∙Network Can	nera				🕀 English 🗸	💄 admin 🗸
	🍰 Media	~	Primary Stream	Secondary Stream	Tertiary Stream		
	Video Image		Enable				
\odot	Audio		Video Codec	H.264	v .		
	Network	>	Frame Size	640*480	v		
ø	E Storage		Maximum Frame Rat	te 25	∽ fps		
	5 Event	>	Bit Rate	512	✓ kbps		
	& System	>	Smart Stream	от	v		
			Bit Rate Control	CBR	v		
			Profile	Main	v		
			I-frame Interval	50	frame(1-120)		
				Save			

Tertiary Stream Settings

Mile	esight ·Network Ca	amera				🕀 English 🗸	💄 admin 🛩
	📇 Media	~	Primary Stream Se	condary Stream Tertiar	Stream		
	Video Image		Enable				
\odot	Audio		Video Codec	H.264 ~			
ø	Network	>	Frame Size	640*480 V			
©.	E Storage		Maximum Frame Rate	25 ~	fps		
	S Event	>	Bit Rate	1024 ~	Kbps		
	System	>	Smart Stream	off ~			
			Bit Rate Control	CBR v			
			Profile	Main ~			
			I-frame Interval	50	frame(1-120)		
				Save			

 Table 164.
 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(3840x2160), 6M(3072x2048), 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 Secondary Stream, it includes 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176. For Tertiary Stream, it include 1920*1080, 1280*720, 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176. Note: The options of Frame Size are variable according to the model.
Maximum Frame Rate	Maximum refresh frame rate of per second and it is variable according to the mode.
Bit Rate	Transmitting bits of data per second, this item is optional only if you select the H.265/ H.264 Set the bitrate to 16~16384 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	CBR: Constant Bitrate. The rate of CBR output is constant. 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.

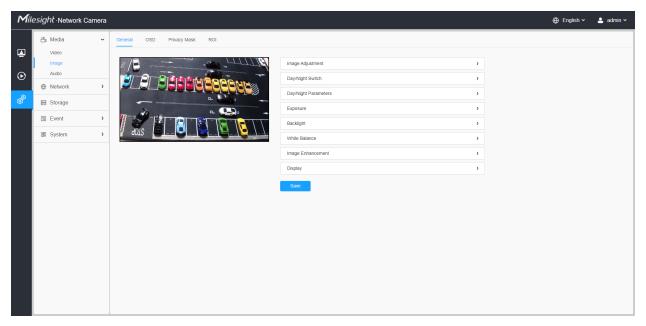
Parameters	Function Introduction
Profile	The option is for H.264, Main/High/Base can be selected as needed.
I-frame Interval	Set the I-frame interval to 1~120, 50 for the default. This item is optional only if you select the H.265/H.264. The number must be a multiple of the number of frames.

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.

<u>General</u>

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]

Mile	esight ∙Network C	amera					🌐 English 🗸 💄 admin
	📸 Media	~	General OSD Privacy Mask ROI				
	Video Image Audio			Adjustment		~	
€	Network	>		tness	50		
ø	E Storage			ration	50		
	la Event	>	Share	pness	50		
	System 3	>			50		
				Nefault	50		
			Day/N	light Switch		>	
			Day/N	light Parameters		>	
			Expo	ure		>	
			Backl	ght		>	
			White	Balance		>	
			Image	Enhancement		>	
			Displa	y		>	
			Sav				

Table 165. 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	Click this button to restore to the default setting.

[Day/Night Switch]

This option is used to control the Day/Night mode. And we applied **Smart IR II Technology** on the camera. It combines the High Beam and Low Beam, upgrading the IR LEDs technology 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.

Mill	esight ·Network Camera		🕀 English 🗸	💄 admin 🗸
Mill ■	<i>Esight</i> -Network Camera Media ✓ Video Image Audio Network → Storage	General OSD Privacy Mask ROI	⊕ English ∨	▲ admin ~
	E Event →	Mode Night Day Auto Customize Day to Night Value 36 Reset Night to Day Value 82 Reset IR Light Sensor Value 100 Day Day/Night Switch Refocus 0n Smart IR Mode Mode Auto Customize IR Senegth Value NearO Far 0 Day		
		Exposure > Backlight > White Balance > Image Enhancement > Present >		

There are 4 modes for Day/Night Switch, including Night, Day, Auto and Customize.

Parameters		Function Introduction
	Night	Switch to Night Mode according to the parameters of night mode. Note: There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with the mode.
	Day	Switch to Day Mode according to the parameters of night mode. Note: There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with the mode.
Day/Night Switch	Auto	 Select this option to automatically switch the Day/Night Mode based on the image. Day to Night Value: You can set the sensitivity for switching Day Mode to Night Mode. When IR Light Sensor Current Value is lower than this value, it will switch Day Mode to Night Mode. You can click Reset to reset the value to 36. Night to Day Value: This is the sensitivity for switching Night Mode to Day Mode. When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode. You can click Reset to reset the value to 82. IR Light Sensor Value: The current value of the IR light sensor.

Table 166. Description of the options

Paran	neters	Function Introduction
	Customize	 Select this option to customize the Start Time and End Time of Night. 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.
	Day/Night Switch Refocus	With this option enabled, the camera will refocus when switching between day mode and night mode.

There are 2 modes for Smart IR Mode to achieve the best effect, including Auto and Customize.

Table 167. Description of the buttons

Paramo	eters	Function Introduction					
	Auto	Select this option to automatically adjust the strength of the Low-Beams LED, High-Beams LED on the basis of the Zoom ratio.					
Smart IR Mode	Customize	 Select this option to manually adjust the strength of the Low-Beams LED, High-Beams LED. You can click Reset to reset the light strength. 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. IR Strength Value: Show the current value of Low-Beams LED, High-Beams LED. 					

[Day/Night Parameters]

ilesight Network	Camera								🕀 English 🗸	
🖆 Media	~	General OSD Privacy Mask ROI								
Video Image			Image Adjustment					>		
Audio	>		Day/Night Switch					>		
Storage	-		Day/Night Parameters					~		
S Event	>	n		🔆 Day		€ Night				
System	>		Exposure Level	5	~	5	~			
		Brandingerich, Annaldich, Annald, Anna	Minimum Shutter Maximum Shutter	1/25	~	1/25	×			
			Limit Gain Level	100	*	100000	•			
			IR-CUT Latency	55	~	55	~			
			IR-CUT	On	~	011	~			
			IR LED	Off	~	On	¥			
			Color Mode	Color	~	B/W	×			
				Reset		Reset				
			Advanced Schedule Mod	• 🗒						
			Exposure					>		
			Backlight					>		
			White Balance					>		

Table 168. 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						
112	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.						
Advanced Schedule Mode							

[Exposure]

Mile	esight Network Camer		🕀 English 🗸	💄 admin 🗸
	t Media ~	General OSD Privacy Mask ROI		
	Image	Image Adjustment		
⊙	Network >	DayNight Skillon >		
ø	🗄 Storage			
	S Event	Mode Auto Manual Schedule		
	I System	Backlight >		
		White Balance > Image Enhancement >		с
		Display		
		Save		

 Table 169. Description of the buttons

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

[Backlight]

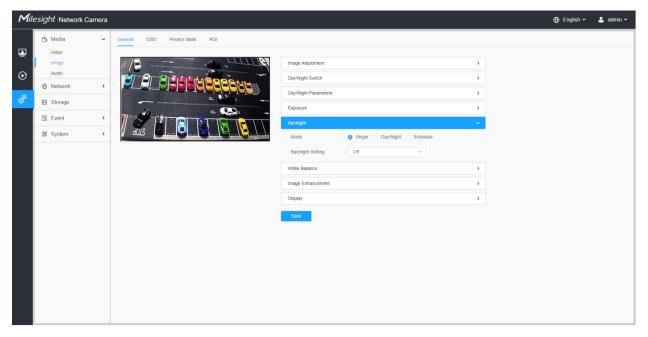


Table 170. Description of the buttons

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

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:

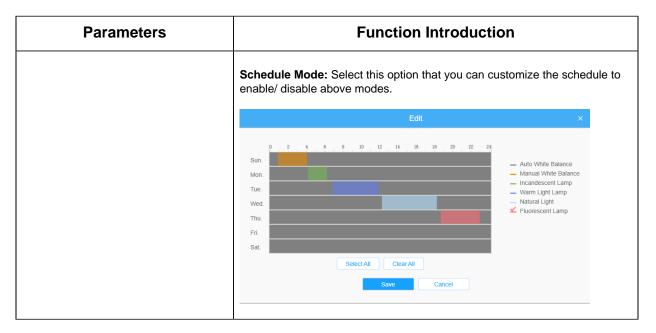
https://www.youtube.com/watch?v=BKEZ6BW-YZE

[White Balance]

Mill	esight ·Network Cam	era					1	🕀 English 🗸	💄 admin 🛩
 Mill ☑ ☑ ☑ 	esight -Network Cam ☆ Media Video Image Audio ⊕ Network € Storage © Event € System	era	Ceneral OSO Privacy Mask ROI	Image Adjustment Day/Night Svitich Day/Night Parameters Exposure Backlight White Balance Image Enhancement Display	General General Schedule Auto White Balance V	> > > > > > > > > > > > > >		⊕ English v	💄 admin 🗸
				Display		>			

Table 171.	Description	of the buttons
------------	-------------	----------------

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



[Image Enhancement]

Mile	esight ·Network Carr	iera						🕀 English 🗸	💄 admin 🗸
	🛱 Media	~	General OSD Privacy Mask ROI						
•	Video Image Audio			Image Adjustment			>		
lacksquare	Network	>		Day/Night Switch			>		
d ⁰	Storage			Day/Night Parameters			>		
				Exposure			>		
	Event	>		Backlight			>		
	I System	>		White Balance			>		
				Image Enhancement			~		
				IR Balance Mode	off	~			с
				Reduce Motion Blur	Off	×			
				Focus Mode	Semi-Auto	~			
				Defog Mode	Off	~			
				Digital Image Stabilisation	orr	~			
				Display			>		
				Save					
				3410					
_				0					

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.				

Parameters	Function Introduction					
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: <u>https://www.youtube.com/watch?v=-vynrami51s</u>					
Defog Mode	 Better image effect in foggy weather. Note: For more details about Milesight Defog, you can click to the YouTube: https://www.youtube.com/watch?v=a9od7Trao4U 					
Digital Image Stabilisation Decrease the blur and shakiness of the image.						

[Display]

Mile	esight ∙Network Can	era					🕀 English 🗸	💄 admin 🗸
	🖆 Media	General OSD Privacy Mask ROI						
	Video Image		Image Adjustment			>		
\odot	Audio Audio Network		Day/Night Switch			>		
ø	Storage		Day/Night Parameters			>		
	Event		Exposure			>		
	🖉 System		Backlight			>		
		haddening and a second second	White Balance			>		
			Display			>		
			Power Line Frequency	50Hz	~			
			Outdoor/Indoor Mode	Outdoor	×			
			Corridor Mode	Off	×			
			Image Rotation	or	×			
			Keep Correct Aspect Ratio	Off	×			
			Save					

Table 173. Description of the buttons

Parameters	Function Introduction					
Power Line Frequency	60Hz and 50Hz are available.					
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs.					

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

<u>OSD</u>

Mill	e <i>sight</i> ∙Network Ca	mera	na en	🕀 English 🗸	💄 admin 🗸
⊥ ⊙	A Media Video Image Audio Network Storage Event	~ > >	Network comerce 19/04/2022 16: 58: 11 Video Stream Primary Stream Note: Stream Primary Stream Image: Stream Primary Stream Image: Stream <td< th=""><th></th><th></th></td<>		
	Event System	>	Since all constant and the second an		
			Show Video Title Network Camera Text Position Top-Left Zoom Status 5 s		
			Tmestamp Stow Timestamp		
			Date Position Top-Right Date Format DDAte Yourget		
			Copy to Other Streams 2 Save		

Table 174. Description of the buttons

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

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: Network Camera 19/04/2022 18:58:45 19/04/2022 18:58 19/04/2022 18:58					
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	amp 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.					

Privacy Mask

Privacy mask enables to cover certain areas on the live video to prevent certain spots in the surveillance area from being viewed and recorded.

You can 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.

Mile	esight ·Network Car	nera								🌐 English 🗸	💄 admin 🗸
	🖧 Media	~	General OSD Privacy Mask ROI								
₽	Video Image			Enable 🗸							
\odot	Audio		ID Name Type Enable Operation								
Ŭ	Network Network	>		1	Privacy Mask1	Mosaic					
ø	Storage		Bitrate 444 or ex. Fran e Beley, Bute	2	Privacy Mask2	Yellow		28			
	Event	>	Resi of Context 1940/430 and Video Context 19274								
	System	>	Since Super Con Grant Connector is 18								
			Type 🔿 Mask 💿 Mosaic	Delete All							
			Add Clear	Save							

Table 175. 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.					
Clear	Clear the area you drew 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 Purple				
	Ē	Delete the privacy mask area				

<u>R0I</u>

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

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

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

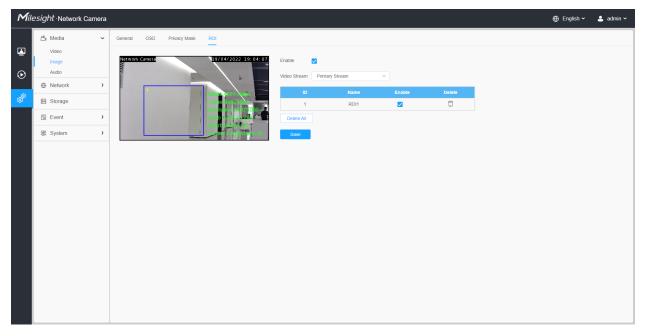


Table 176. Description of the buttons

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



• 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.

Audio

<u>Audio</u>

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.

Mil	esight Network Camer	era 🕀	English 🗸	💄 admin 🗸
 ✓ ✓	Media Video Image Audio O Storage Storage Event Storage	Audo Audo Audo Audo Finable Audo Mode Both Audo Input & Output Audo Mode Both Audo Input & Output Finable Audo Mode Both Audo Input & Output Both Audo Input & Output </th <th>English v</th> <th>🛓 admin 🗸</th>	English v	🛓 admin 🗸
		Auto Gain Control		

Table 177. Description of the buttons

Parameters	Function Introduction
Enable	Check on the checkbox to enable audio feature.
Audio Mode	Audio Input/Audio Output/Both Audio Input & Output are optional.

Parameters	Function Introduction						
	Denoise: 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						
Audio Input	Audio Bit Rate: The function is available only for AAC LC, and supports up to 48kbps.						
Addio input	Sample Rate: 8KHz, 16KHz, 32KHz, 44.1KHz, and 48KHz are available.						
	Input Gain: Input audio gain level, 0-100.						
	Alarm Level: Alarm will be triggered if voice alarm is enabled and input gained volume is higher than the alarm level, 1-100.						
Audio Output	Auto Gain Control: This function is only for H.265 series, improve the quality of audio						
	Output Volume: Adjust volume of output						

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.

Mile	esight Network C	Camera	
	🖧 Media	Ý	Audio Audio File Management
۲	Video Image		Audio File Storage Type Flash
\odot	Audio		Flash
	Network Network	>	Audio File ① SD
Ø	E Storage		ID Audio File Name Delete
	5 Event	>	No Data
	er IoT	>	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.

4.7.2 Network

Basic

TCP/IP

Mii	lesight Network Came	a	🕀 English 🗸	💄 admin 🗸
	සී Media	TCP/IP HTTP RTSP UP/IP DDNS Email FTP		
•	Network Basic Advanced	IPv4 Type O Static O DHCP		
ø	E Storage	IP Address 192 . 168 . 69 . 66 Test		
¢.	5 Event	IPv4 Subnet Mask 255 . 255 . 255 . 0		
	ন্থ System			
		Preferred DNS Server 8 8 8 IPv6 IPv6 Mode Manual > IPv6 Address IPv6 Prefix IPv6 Prefix IPv6 Default Cateway IPv6 IPv6 IPv6 IPv6 IPv6 IPv6 IPv6 IPv6		
		MTU 1500 1200-1500 Bytes		

Table 178. Description of the buttons

Parameters	Function Introduction							
IPv4	 Type: Static Type and DHCP Type are optional for user to get IPv4 address automatically or use fixed IP address. IPv4 Address: An address that used to identify a network camera on the network. Note: The Test button is used to test if the IP is conflicting. IPv4 Subnet Mask: It is used to identify the subnet where the network camera is located. IPv4 Default Gateway: The default router address. Preferred DNS Server: The DNS Server translates the domain name to IP address. 							

-

Parameters	Function Introduction								
IPv6	 IPv6 Mode: Choose different modes for IPv6: Manual/Route Advertisement/ DHCPv6 IPv6 Address: IPv6 Address used to identify a network camera on the network IPv6 Prefix: Define the prefix length of IPv6 address IPv6 Default Gateway: The default router IPv6 address 								
MTU	Maximum Transmission Unit. The default value is 1500. You can customize the value from 1200 to 1500 as needed.								
Save	Save the configuration.								

<u>HTTP</u>

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	🖧 Media	>	TCP/IP HT	ТР	RTSP	UPnP	DDNS	Email	FTP								
•		~	HTTP														
Ð	Basic Advanced		Enable	l	<u>~</u>												
ø	E Storage		Port		80												
	5 Event	>	HTTPS														
	System	>	Enable		/												
			Port	[443												
			Installed Certifi	icate	C=US, H	l/IP=IPC		Rese	et								
			Attributes		Period o Aug 13			te.									
			Installation Typ	ре [Create a Create Save	Private Certi	ificate 🗸										

Table 179. Description of the buttons

Parameters	Function Introduction
НТТР	Enable: Start or stop using HTTP. Port: Web GUI login port, the default is 80, the same with ONVIF port.

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

Table 180. 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

<u>RTSP</u>

Mile	esight Network Came	era	🕀 English 🗸	💄 admin 🗸
	🖆 Media	TCP/IP HTTP RTSP UPnP DDNS Email FTP		
≧ ⊙	Network Basic Advanced	RTSP Port 554 O		
¢ ⁰	E Storage	RTP Packet Better Compatibility		
¢.	5 Event	Multicast Group Address 239 . 6 . 6 . 6		
	圆 System	QoS DSCP(0.63) 0		

Table 181. 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. Note: 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 182. 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.

<u>UPnP</u>

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.

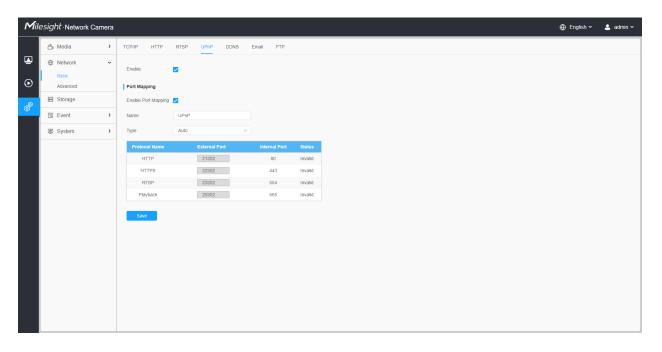


Table 183. Description of the buttons

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

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.

<u>DDNS</u>

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

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

Mile	esight ·Network Came	а		🕀 English 🗸	💄 admin 🗸
	🖧 Media	TCP/IP HTTP	RTSP UPnP DDNS Email FTP		
•	 Network Basic Advanced 	Enable Provider	☑ ① dans.milesight.com ~		
ø [®]	E Storage	External HTTP Port	80		
O	5 Event	External RTSP Port	554		
	🗷 System	External Playback Port	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 184. 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.

<u>Email</u>

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

Media > TCP/IP HTP RTP DDNS Email FTP Basic Enable	Polivork Faable Baac Eable Avanced User Name 101569401@qq com 2 Storage Sender Email Address 101569401@qq com 2 Event Password Email Port Sing q com Email Port 25 Recipent Email Address Encyston None Storage None Storage None	Network Songe System R	Enable Ulser Name 1013658401@qq.com Sender Email Address 1013568401@qq.com	
Basc Enable Enable Advanced User Name 101369801@qq com Isorage sender Email Address 101369801@qq com Isorage sender Email Address 101369801@qq com Isorage passord immediate Isorage passord immediate Isorage Email Port Immediate Isorage Email Port Immediate Recipient Email Address Immediate Immediate Isorage	Basic Enable Image: Composition of the state of	Basic Advanced Ut Advanced Size Storage Size & System E E R	User Name 1013656401@qq com Sender Email Address 1013658401@qq com Password	
Storage Sender Email Address I Storage Password I Storage Password I Storage Password I Storage Inno	Storage Sender Email Address Storage Password Password mmm Brad Server smp.op.com Email Port 25 Recipient Email Address aba@missipht com Recipient Email Address imm Inno Non Storage Non Storage Non Storage Imm Storage Imm <th>E Storage Stor</th> <th>Sender Email Address 1013559401@qq.com Password •••••</th> <th></th>	E Storage Stor	Sender Email Address 1013559401@qq.com Password •••••	
Image: System Passwod Image: System Image: System Image: System Image: System <td>Image: system Passwod Image: system Email Server Image: system Image: system Image: system Image: system</td> <td>Image: System P Image: System E Image: System E Image: System E Image: System E</td> <td>Password (</td> <td></td>	Image: system Passwod Image: system Email Server Image: system Image: system	Image: System P Image: System E Image: System E Image: System E Image: System E	Password (
Image: System in the server	Image: System Email Server smfp.qz.com Imail Server Imail Port 25 Imail Server alba@milesight.com Recipient Email Address alba@milesight.com Recipient Email Address Imail Server Imail Server None Starsphot File Name YYYY-MM-DO Timing Snapshot File Name YYYY-MM-DO	System En En R		
Email Port 25 Recipient Email Address alba@milesght.com Recipient Email Address alba@milesght.com Encrypton None SSL<	Email Port 25 Recipient Email Address1 aba@milesight.com Recipient Email Address2 Email Port Encryption None SSL OTLS Snapshot Settings Imail Snapshot File Name YYYY-AMA-DO V	Ei Ri	Email Server smtp.gg.com	
Recipient Email Address2 Encryption None SSL TLS I Snapshot Settings Alarm Snapshot File Name YYYY-AMA-DD	Recipient Email Address2 Encryption Imageshot Settings Alarm Snapshot File Name YYYY-MM-DD Timing Snapshot File Name YYYY-AMA-DD			
Encryption ONone SSL TLS Snapshot Settings Alarm Snapshot File Name YYYY-AMA-DD	Encryption None SSL TLS Snapshot Settings Alarm Snapshot File Name YYYYYJMA-DD Timing Snapshot File Name YYYYYJMA-DD	R	Recipient Email Address1 alba@milesight.com	
Snapshot Settings Alarm Snapshot File Name VYYY-MM-DD V	Snapshot Settings Alarm Snapshot File Name YYYY-MM-DD Timing Snapshot File Name YYYY-MM-DD		Recipient Email Address2	
Alarm Snapshot File Name YYYYY-MM-DD V	Alarm Snapshot File Name YYYYY-MM-DD V Timing Snapshot File Name YYYYY-MM-DD V	E	Encryption O None O SSL O TLS	
	Timing Snapshot File Name YYYYY-MM-DD v	S S	Snapshot Settings	
Timing Snapshot File Name VYYY-MM-DD V		AI	Alarm Snapshot File Name VYYYY-MM-DD V	
	Save Test	π	Timing Snapshot File Name YYYY-MM-DD V	

Table 185.	Description	of the buttons
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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 && - &

<u>FTP</u>

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

Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Control of the Network Image: Contro	e <i>sight</i> ∙Network Camer	3			🌐 English 🗸	
Basic FTP Server Settings Advanced FTP Type Storage Server Adstess Storage Server Adstess Storage Server Adstess Ver Name aba Ver Name aba Password Immediate FTP over SSL/TLR(FTPS) Immediate FTP over SSL/TLR(FTPS) Immediate Ver Name Debut(YYY-MM-DD) Adam Action File Name Debut(YYY-MM-DD) Timmg Snapshot File Name YYY-MM-DD Pe Second 0 s	🖆 Media 🔹	TCP/IP HTTP RTS	P UPnP DDNS I	Email FTP		
Storage Storage Storage Storage Passond Passond Passond FTP over SSUTUS(FTPS) FTP storage Setting Storage Path Storage Path Obside Storage Path Prescond Obside Storage Prescond Obside Storage	Basic	FTP Server Settings		•		
Iservaria Uservaria Iservaria Uservaria Iservaria Password Password Imme FTP overSU/TLS(FTPS) FTP storage Settings Storage Path Root Directory Atarn Action File Name DefaultYYY-MM-DD) Timing Snapshot File Name YYY-MM-DD Pre Second 0 s	E Storage					
System Password Password ****** FTP over SSUTLS(FTPS) FTP Storage Sattings Storage Path Root Dilectory Atarm Action File Name Default(YYYY+MM-DD) Timing Snapshot File Name YYYY-4MA-DD Pie Second 0 s	🗟 Event 🔹					
FTP Storage Sattings Storage Path Root Directory Alarm Action File Name DefaultrYYYY-MM-DD) Timing Snapshot File Name YYYY-MM-DD Pre Second 0 s	國 System)			•		
Alarm Action File Name Default/YYYY-MM-DD) V Timing Snapshot File Name YYYY-MM-DD V Pre Second 0 s V						
Timing Snapshot File Name YYYY-MM-DD Pre Second 0 s		Storage Path	Root Directory	v		
Pre Second 0 s v		Alarm Action File Name	Default(YYYY-MM-DD)	v.		
		Timing Snapshot File Name	YYYY-MM-DD	×		
Save Test		Pre Second	0 s	×		
			Save Test			

Table 186. Description of the buttons

Parai	neters	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.
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.

Advanced

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.

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	🖧 Media	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
≞ ⊙	 Network Basic Advanced 	Enable VLAN ID(1-4094) 1		
ø	Storage	VLANIP		
\$ [5 Event	VLAN Netmask		
	e loT	VLAN Gateway		
	I System	Save		

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

<u>PPPoE</u>

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.

sight Network Came	I						🌐 English 🗸	💄 admin 🗸
🗂 Media	VLAN PPPoE SNMP	802.1x Bonjour	RTMP SIP More					
-	Enable							
Advanced	Dynamic IP 0.0.0.0							
E Storage	User Name							
5 Event	Password							
e loT	Confirm Password							
System	Save							
	Image: Storage Image: Storage Image: Storage Image: Storage Image: Storage Image: Storage	Network Basic Advanced Storage Lor io	¹ / ₂ Media ¹ / ₂ VLAN ¹ / ₂ PPPEE ¹ / ₂ NMP ¹ / ₂ OO2.1x ¹ / ₂ OO1.1x ¹ / ₂ Network ¹ / ₂	¹ Media ¹ VLAN ¹ PPPOE ¹ SNMP ¹ 802.1x ¹ Bonjour ¹ RTMP ¹ SIP ¹ More ¹ Basic ¹ Advanced ¹ Enable ¹ Dynamic IP	Media VLAN PPPQE SNMP 802.1x Bonjour RTMP SIP More Image: Network Network	Media VLAN PPPQE SNMP 802.1x Bonjour RTMP SIP More Image: Network Network Network Network Image: Network Network Image: Network Network	¹ Media ¹ VLAN ¹ PPPE ¹ Subject ¹ RTMP ¹ RTMP ¹ More ¹ Basic ¹ Advanced ¹ Enable ¹ Enable ¹ Enable ¹ Enable ¹ Storage ¹ User Name ¹ User Name ¹ User Name ¹ IoT ¹ Password ¹ Contem Password ¹ Contem Password	¹ / ₂ Modia ¹

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.

<u>SNMP</u>

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.

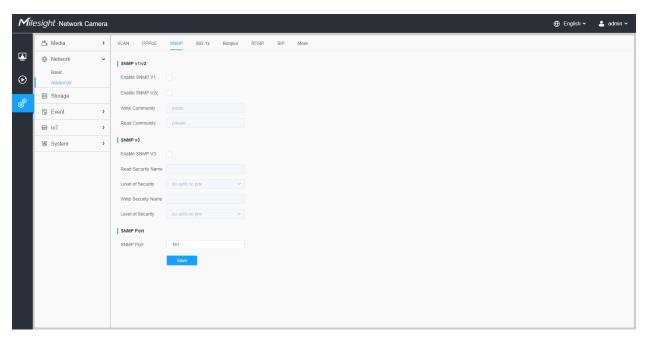


Table 187. Description of the buttons

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

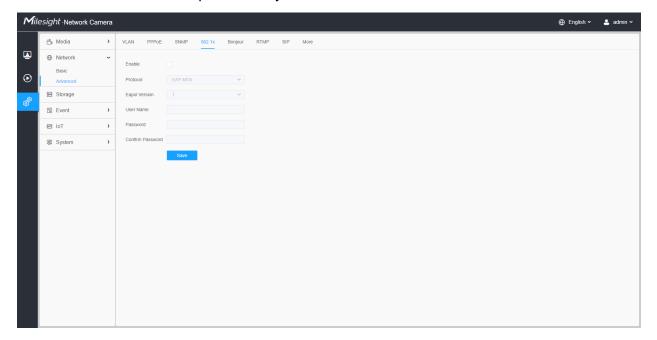
Parameters	Function Introduction
	Enable SNMP v3: Provide encryption and the HTTPS protocol must be enabled.
	Read Security Name: Input the name of Read Security Community.
SNMP v3	Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv).
	Write Security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

<u>802.1x</u>

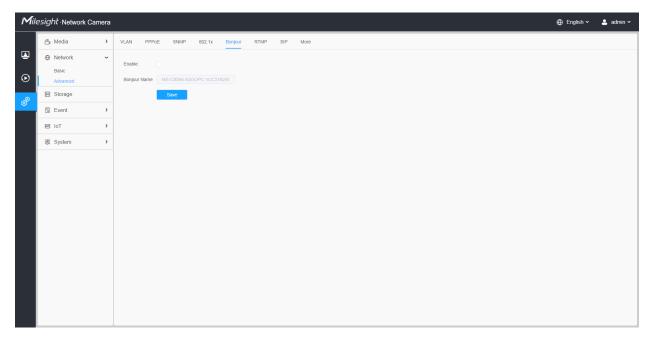
The IEEE 802.1X standard is supported by the network cameras, and when the feature is enabled, the camera data is secured and user authentication is needed when connecting the camera to the network protected by the IEEE 802.1X.



<u>Bonjour</u>

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.



<u>RTMP</u>

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.

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	🖧 Media	VLAN PPPOE SNMP 802.1x Bonjour RTMP SIP More		
⊡ ⊙	 Network Basic Advanced 	C Enable Stream Type Primary Stream		
ø	🗄 Storage	Server Address		
\$	5 Event	Save		
	IoT			
	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.

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 Network cameras can be configured as SIP endpoint to call out when alarm triggered; or allow permitted number to call in to check the video if the video IP phone is used.

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

Image: Media VLAN PPPE SNAP 00.1 X Bongur RTMP SP More Image: Maxee Mark SP Settings Image: Mark Imark Image: Mark <	esight Network	Camera		🕀 English 🗸
Basic IP Settings Advanced IAma Phone List IS Storage Vinte List IS Event Isove	🗂 Media	>	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More	
El Storage White List CE Event Save	Basic	~		
	5 Event	>	Save	
	🗟 System	>		

To use this function, the settings in SIP page must be configured properly. There are two ways to get video through SIP, one is to dial the IP address directly, the other is account registration mode. the details are as follows:

Method 1: IP Direct mode

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

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

Method2: Account registration mode

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

[SIP Settings]

Miles	s <i>ight</i> ∙Network C	amera					
	🗂 Media	>	VLAN PPPoE SNMP	9 802.1x Bonjour	RTMP	SIP More	
	Network Basic	~	SIP Settings				~
\odot	Advanced		Enable	1			
¢ [®]	E Storage		Register Mode	Enable	~		
	5 Event	>	User ID	500			
	e loT	>	User Name	sipclient			
	System	>	Password				
			Server Address				
			Server Port	5060			
			Connection Protocol		~		
			Video Stream	Primary Stream	~		
			Enable Audio in SIP Call				
			Max Call Duration			s (0 means no limitation	.)
			Status	Unregistered			
			Alarm Phone List				>
			White List				>
			Save				

Table 188. 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]

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	📇 Media	VLAN PPPOE SNMP 802.1x Bonjour RTMP SIP More		
₽	 Network Basic Advanced 	SIP Settings Aurin Phone List		
ø	🗄 Storage	SIP Phone Phone Type Remark Name Duration Delete		
\$	Event	> 1837859036 Phone Number 00.00-23:59		
	🗟 System	Add Delete All		
		White List		

Table 189. 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]

1 ile	e <i>sight</i> ∙Network C	Camera			
	🖧 Media	>	VLAN PPPoE SNMP	802.1x Bonjour RT	MP SIP More
	Network Network	~	SIP Settings		
\odot	Basic Advanced		Alarm Phone List		
ø	🗄 Storage		White List		
O	5 Event	>	Enable White List Number Filte	er 🗌	
	System	>	SIP Phone	Phone Type	Delete
				No Data	
			Add		
			Save		

Table 190. 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.

More

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

Mil	lesight ·Network Car	mera		🕀 English 🗸	💄 admin 🛩
	🖧 Media	>	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
•	Network Basic Advanced	~	Push Message Settings Enable		
ø	E Storage		Push Event Type Edit		
Q [*]	5 Event	>	ONV/F Setting		
	ee loT	>	Enable 🔽		
	I System	>	Save		

Table 191. Description of the buttons

Parameters	Function Introduction					
	Enable: Enable/disable the Push Message function					
	Edit 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					
	Motion Detection Audio Alarm Zexternal Input					
	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.					

4.7.3 Storage

Storage Management

Mill	esight ·Network Camer	era	🕀 English 🗸	💄 admin 🗸
		Storage Management Record Settings Snapshot Settings Explorer		
	Video Image	SD Card		
\odot	Audio	20.46G/59.46G Format		
\$	Network	> NAS		
ø	E Storage	No Server Address Directory Mounting Type Total Free User Name Status Operation		
	Event 2	No Data		
	😨 System 🛛	Add		

Before you start:

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

Table 192. Description of the buttons

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

Parameters	Function Introduction				
	The network disk should be available within the network and properly configured to store the recorded files, etc. NAS (Network-Attached Storage), connecting the storage devices to the existing network, provides data and files services.				
	Add ×				
	Server Address*				
	Directory* Mounting Type NFS				
NAS	Save Cancel				
	Server Address: IP address of NAS server.				
	Directory: Input the NAS directory, e.g. "/path".				
	Mounting Type: NFS and SMB/CIFS are available. And you can set the user name and password to guarantee the security if SMB/CIFS is selected.				
	Note:				
	 Up to 5 NAS disks can be connected to the camera. 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>. 				

Record Settings

Milesight Network Camer		🕀 English 🗸	💄 admin 🗸
🖧 Media 🔸	Storage Management Record Settings Snapshot Settings Explorer		
Advanced Storage Event System	Storage Settings Enable Recycle Storage Pre Second 0 seconds Schedule Settings p 2 4 6 9 12 14 15 18 20 22 24 Sun_		
	Mon. Tue. Ved. Fri. Select All Clear All		

Table 193. 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.

Snapshot Settings

Mile	esight Network Camera		🕀 English 🗸	💄 admin 🗸
	🖧 Media 🔸	Storage Management Record Settings Snapshot Settings Explorer		
•	Network >	Snapshot Settings		
\odot	E Storage	Enable Timing Snapshot 💆		
	S Event >	Interval 1 h ~		
ø	System >	Save to storage (Please mount storage device.)		
		Upload Via FTP		
		Upload Via Email		
		HTTP Post		
		Schedule Settings		
		9 2 4 6 9 10 12 14 15 10 22 26 Sun. 1 <		

Table 194. Description of the buttons

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

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

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.).

Media Storage Management Record Settings Starge Management Record Settings Storage Network > Man Type Record Settings Storage File Name Storage Storage Timing Storage Image: Storage Image: Storage Image: Storage Image: Storage Image: Storage Timing Storage	Image: Storage Image	<i>esight</i> ·Network	Camera						🕀 English 🛩 💄 admin
Image Num Type Record Storage East Storage Trice Storage Storage Storage East Storage Storage<	Main Type Read Sub Type All Sub Type Control Sub Type All	🖰 Media	>	Storage Manage	ement Record Settings Sna	pshot Settings Explorer			
File Name Start Time End Time Type Size © Event 120220325192231 200240325 1922 31 200220325 1927 35 Timing 250 64M © System 120220325192735 20204025 1927 35 2002200325 1927 35 Timing 250 64M © System 120220325192745 20204025 1927 35 2002200325 1937 44 Timing 250 64M © 120220325193744 2002040325 1937 44 2002204325 1937 44 Timing 250 64M © 120220325193744 2002040325 1937 44 2002204325 1937 44 Timing 251 64M © 120220325194744 2002204325 1937 44 2002204325 1947 54 Timing 251 64M © 120220325194754 2002204325 1947 54 2002204325 1947 54 Timing 251 64M © 120220325194754 200240325 1947 54 2002204325 1947 54 Timing 251 64M © 120220325194754 200240325 1947 54 2002204325 1947 54 Timing 250 69M © 120220325194754 200240325 1947 54 20022032 1958 28 Timing 250 69M © 120220325195258 200240325 1952 58 <td< th=""><th>File Name File Name Start Time End Time Type Size S Event 1 120220325192231 2022-03-25 19 27.35 Timing 250.56 Md S System 1 120220325192735 2022-03-25 19 27.35 2022-03-25 19 32.40 Timing 250.56 Md Image: System 1 120220325192735 2022-03-25 19 32.40 Timing 250.58 Md Image: System 1 120220325193240 2022-03-25 19 32.40 Timing 250.58 Md Image: System 1 20220325193240 2022-03-25 19 32.40 Timing 251.44 Md Image: System 1 2022032519474 2022-03-25 19 42.49 Timing 251.44 Md Image: System 1 20220325194754 2022-03-25 19 42.59 Timing 250.58 Md Image: System 1 20220325194754 2022-03-25 19 52.58 Timing 250.58 Md Image: System 1 20220325194754 2022-03-25 19 52.58 Timing 250.58 Md Image: System 1 20220325195258 2022-03-25 195.25 Md Ti</th><th>Network Network</th><th>></th><th>Main Tuna</th><th>Deced Cub Tur</th><th>a All Chart Time (</th><th>2022/02/25 00:00:00</th><th>5 22 50 50</th><th>Occut</th></td<>	File Name File Name Start Time End Time Type Size S Event 1 120220325192231 2022-03-25 19 27.35 Timing 250.56 Md S System 1 120220325192735 2022-03-25 19 27.35 2022-03-25 19 32.40 Timing 250.56 Md Image: System 1 120220325192735 2022-03-25 19 32.40 Timing 250.58 Md Image: System 1 120220325193240 2022-03-25 19 32.40 Timing 250.58 Md Image: System 1 20220325193240 2022-03-25 19 32.40 Timing 251.44 Md Image: System 1 2022032519474 2022-03-25 19 42.49 Timing 251.44 Md Image: System 1 20220325194754 2022-03-25 19 42.59 Timing 250.58 Md Image: System 1 20220325194754 2022-03-25 19 52.58 Timing 250.58 Md Image: System 1 20220325194754 2022-03-25 19 52.58 Timing 250.58 Md Image: System 1 20220325195258 2022-03-25 195.25 Md Ti	Network Network	>	Main Tuna	Deced Cub Tur	a All Chart Time (2022/02/25 00:00:00	5 22 50 50	Occut
Image: System 120220325192231 202240325192231 202240325192735 Timing 200.44M Image: System 120220325192231 202240325192735 202240325192735 202240325193240 Timing 25151M Image: System 120220325193240 202240325193240 202240325193744 Timing 25052M Image: System 120220325193240 202240325193744 202240325193744 202240325193744 26052M Image: System 120220325194249 202240325194249 202240325194249 202240325194754 Timing 25154M Image: System 120220325194754 202240325194754 202240325194754 Timing 25089M Image: System: System	Event Image: Constraint of the constraint of	😫 Storage		main type	Record V Sub Typ	e All Start Time	2022/03/25 00:00:00 End Time 0 2022/03/25	5 23.59.59	Search
System 12022032519273 20220325192735 20220325192735 20220325192735 20220325193240 Timing 2016 12022032519273 20220325193744 20220325193744 20220325193744 Timing 203644 120220325194249 20220325193744 20220325194745 20220325194749 Timing 203644 120220325194249 20220325194249 20220325194249 20220325194249 Timing 251.6HA 120220325194249 2022032519474 20220325194744 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 20220325194754 2005094 120220325195258 20220325194754 20220325195268 20220325195269 Timing 250.69M	Image: Note of the system Im	E Guest						Туре	Size
120220325193240 2022-03-25 19.32.40 2022-03-25 19.37.44 Timing 29.92M 120220325193744 2022.03-25 19.37.44 2022.03-25 19.42.49 Timing 251.56M 120220325194249 2022.03-25 19.42.49 2022.03-25 19.47.54 Timing 251.44M 120220325194249 2022.03-25 19.47.54 2022.03-25 19.47.54 Timing 250.69M 120220325194259 2022.03-25 19.47.54 2022.03-25 19.55.68 Timing 250.69M 120220325195258 2022.03-25 19.52.58 2022.03-25 19.56.02 Timing 250.69M	120220325193240 2022-03-25 19.32.40 2022-03-25 19.37.44 Timing 250.92M 120220325193744 2002-03-25 19.37.44 2022-03-25 19.42.49 Timing 251.36M 120220325194249 2022-03-25 19.42.49 2022-03-25 19.47.54 Timing 251.44M 120220325194754 2022-03-25 19.47.54 2022-03-25 19.47.54 Timing 250.98M 120220325194754 2022-03-25 19.57.54 2022-03-25 19.57.56 2022-03-25 19.57.50 Timing 250.69M 1202203251945602 2022-03-25 19.57.50 2022-03-25 19.57.50 2022-03-25 19.57.50 Timing 250.69M 1202203251945602 2022-03-25 19.57.50 2022-03-25 19.57.50 2022-03-25 19.57.50 Timing 250.69M	Co Eveni			120220325192231	2022-03-25 19:22:31	2022-03-25 19:27:35	Timing	250.64M
120220325193744 2022-03-25 19.37.44 2022-03-25 19.42.49 Timing 251.56M 120220325194249 2022-03-25 19.42.49 2022-03-25 19.47.54 Timing 251.44M 120220325194249 2022-03-25 19.47.54 2022-03-25 19.47.54 2022-03-25 19.52.58 Timing 250.69M 120220325196258 2022-03-25 19.52.58 2022-03-25 19.52.58 2022-03-25 19.50.20 Timing 250.69M	120220325193744 2002-03-25 19.37.44 2022-03-25 19.47.49 Timing 251.36M 120220325194744 2002-03-25 19.47.49 2002-03-25 19.47.54 Timing 251.36M 120220325194754 2002-03-25 19.47.54 2002-03-25 19.47.54 Timing 250.85M 120220325196256 2022-03-25 19.52.58 2022-03-25 19.52.58 Timing 250.85M 120220325196256 2022-03-25 19.52.59 2022-03-25 19.52.50 Timing 250.65M 1202203251960602 2022-03-25 19.58.02 2022-03-25 19.58.02 Timing 251.55M	System	>		120220325192735	2022-03-25 19:27:35	2022-03-25 19:32:40	Timing	251.61M
120220325194249 2022-03-25 19.42.49 2022-03-25 19.47.54 Timing 251.44M 120220325194754 2022-03-25 19.47.54 2022-03-25 19.47.54 2022-03-25 19.52.58 Timing 250.89M 120220325194754 2022-03-25 19.52.58 2022-03-25 19.52.58 2022-03-25 19.52.58 Timing 250.69M 120220325195258 2022-03-25 19.52.58 2022-03-25 19.56.26 Timing 250.69M	120220325194249 2022-03-25 19.42.49 2022-03-25 19.47.54 Timing 251.44M 120220325194754 2022-03-25 19.47.54 2022-03-25 19.52.58 Timing 250.99M 120220325196256 2022-03-25 19.52.58 2022-03-25 19.52.58 2022-03-25 19.52.58 Timing 250.69M 1202203251962602 2022-03-25 19.52.58 2022-03-25 19.52.50 2022-03-25 19.55.02 Timing 250.65M				120220325193240	2022-03-25 19:32:40	2022-03-25 19:37:44	Timing	250.92M
120220025194754 2022-09-25 19.47.54 2022-09-25 19.52.58 Timing 250.89M 120220025195258 2022-09-25 19.52.58 2022-09-25 19.52.58 2022-09-25 19.52.58 200-29-25 19.52.58 200-29-25 19.52.58 200-29-25 19.52.58 200-29-25 19.52.58 200-29-25 19.52.58 200-29-25 19.52.58 200-29-25 19.52.58 200-29-25 19.52.58 200-29-25	120220325194754 2022-03-25 19.47.54 2022-03-25 19.52.58 Timing 250.89M 120220325196258 2022-03-25 19.52.58 2022-03-25 19.52.58 2022-03-25 19.52.58 Timing 250.69M 120220325196268 2022-03-25 19.52.58 2022-03-25 19.52.58 2022-03-25 19.55.02 Timing 250.69M 120220325196269 2022-03-25 19.58.02 2022-03-25 19.58.02 2022-03-25 19.56.02 Timing 251.65M				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 19.56.02 Timing 250.69M	120220325199258 2022-03-25 19 52:58 2022-03-25 19 58:02 Timing 250 59M 120220325199602 2022-03-25 19 58:02 2022-03-25 19 58:02 2022-03-25 19 58:02 Timing 250 59M				120220325194249	2022-03-25 19:42:49	2022-03-25 19:47:54	Timing	251.44M
	120220325195802 2022-03-25 19.58.02 2022-03-25 20.03.08 Timing 251.55M				120220325194754	2022-03-25 19:47:54	2022-03-25 19:52:58	Timing	250.89M
120220325195802 2022-03-25 19.58.02 2022-03-25 20.03.08 Timing 251.65M					120220325195258	2022-03-25 19:52:58	2022-03-25 19:58:02	Timing	250.69M
	120220332300906 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
120220325200008 2022-03-25 20.03.08 2022-03-25 20.07.37 Timing 221.72M					120220325200308	2022-03-25 20:03:08	2022-03-25 20:07:37	Timing	221.72M
								Total 9 30/page	Go to 1
Total 9 30/page 🗸 < 🚺 > Go to	Total 9 30page < < 1 > Go to 1								Download

4.7.4 Event

Basic Event

Motion Detection

Mile:	sight ·Network Camei	ra							⊕ English ∽	💄 admin 🗸
	🖧 Media	>	Motion Detection	Audio Alarm	External Input	External Output	Exception			
	Network	>					Enable Detection			
\odot	😤 Storage			二部 総称語 三二二			Enable Motion Analysis			
	Event	~				2kthoś	Basic Settings	>		
¢	Basic Event				fante Rate	7fps	Schedule Settings	,		
a	S PTZ						Alarm Action	>		
	lPR	>				hotligns 13	Save			
	System	>	Select All	Clear All						

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

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 195. 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

Table 196. Description of the buttons

[Schedule Settings]

Step5: Set motion detection schedule;

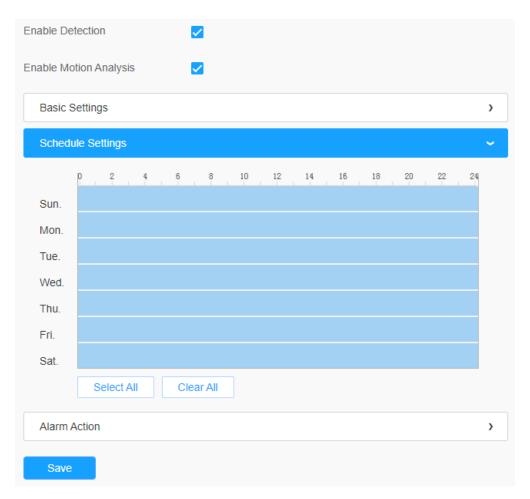


Table 197. Description of the buttons

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]

Step6: Set alarm action;

Enable Detection	
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	>
Save	

 Table 198. Description of the buttons

Parameters	Function Introduction
Record	Duration: Selected the duration time of alarm. 5s/10s/15s/20s/25s/30s are available. Linkage: 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.
	Linkage: 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.
Diau Audia	Auto/10 seconds/30 seconds/1 minute/5 minutes/10 minutes are available.
Play Audio	Note: Please enable the Audio Speaker.
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.
HTTP Notification	 Support to pop up the alarm news to specified HTTP URL. Note: Three HTTP notifications at most can be added to the same event. HTTP Notification supports Basic & Digest authentication
White LED	When the alarm triggered, White LED will turn on to warn the detected objects. Image: Note: Only for PTZ Bullet.
BTZ Motion	When the motion alarm triggered, PTZ Motion allows the camera move the lens to the motion triggered position and zoom in.
PTZ Motion	Note: 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)	Note: Only for PTZ series.

<u>Audio Alarm</u>

Check the check box to enable the Audio Alarm function.

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

Mile	sight ·Network Camer	a		🕀 English 🗸	💄 admin 🗸
	සී Media	>	Motion Detection Audio Alarm External Input External Output Exception		
	Network	>	Enable Audio Alarm (Please enable the Audio Mic.)		
€	🗄 Storage		Basic Settings V		
	5 Event	~			
ø	Basic Event		Audio Sample Value 0		
@	S PTZ		With Role Lat.		
	 (R) LPR (R) System 	>	Current Competition 13		
	ig; system	<i>'</i>	Save		

[Basic Settings]

Table 199. 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 86)</u> for the meanings of the items, here will not repeat again.

[Alarm Action]

Refer to the table <u>Table 4 (page 87)</u> for the meanings of the items, here will not repeat again.

External Input

Mile:	sight Network Camer	a		🕀 English 🗸	💄 admin 🗸
	📸 Media	>	Motion Detection Audio Alarm External Input External Output Exception		
₽	Metwork	>	Enable External Input		
\odot	🗄 Storage		Schedule Settings		
	Event	~	Alam Action		
ø	Basic Event				
	🔊 PTZ		Save		
	📾 LPR	>			
	😰 System	>			

Refer to the table <u>Table 3 (page 86)</u> for the meanings of the items, here will not repeat again.

External Output

Miles	<i>sight</i> ·Network Camera	a \oplus	English 🗸	💄 admin 🗸
	🖧 Media	Motion Detection Audio Alarm External Input External Cutput Exception		
	Network	> Normal Status Settings		
\odot	E Storage	External Output Open O Grounded		
	3 Event	Current Status Grounded		
ø	Basic Event			
_	🔊 PTZ	Manual External Output		
a	📾 LPR	Manual Output Start		
	😰 System	> External Output Action Time Manual Control		
		Save		

[Normal Status Settings]

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

[Manual External Output]

You can set the manual external output.

Table 200. 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.		

Exception

esight ·Network Camera	era 🕀 English
🖧 Media 🔸	Motion Detection Audio Alarm External Input External Output Exception
Metwork Network Network	Alarm Type Network Disconnected
🚍 Storage	Enable Alarm
🗟 Event 🗸 🗸	
Basic Event	Alarm Action
🔊 PTZ	Record > Snapshot >
(ne) LPR >	Snapshot > External Output >
🖉 System 🔹 💙	
	White LED
	Save

Table 201. 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 86)</u> for the meanings of the items, here will not repeat again.

4.7.5 Parking Management

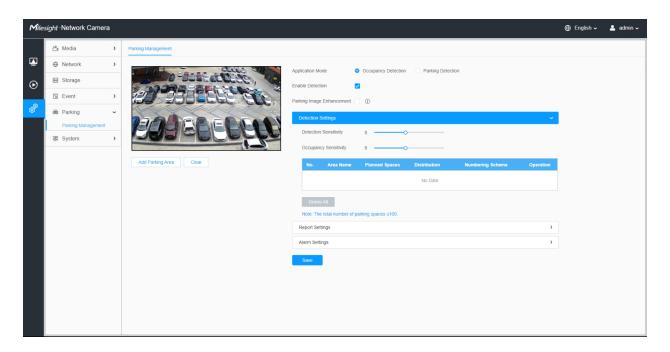
Occupancy Detection based on AI algorithm can realize simultaneous detection and management of up to 100 parking spaces with up to 98% detection accuracy. Parking Detection with LPR based on AI LPR algorithm can realize simultaneous detection and management of up to 4 parking spaces with LPR. These two parking management modes greatly help guide parking and realize more efficient and intelligent parking management.

Mile	sight Network Camer	a		🕀 English 🗸	💄 admin 🗸
	😤 Media	>	Parking Management		
•	Network	>	Application Mode Occupancy Detection		
\odot	🗄 Storage		Enable Detection		
	5 Event	>	Country / Region China		
ø	Parking	~	Circles Participants Circles P		
	Parking Management		Vision Calcine 1264 Simuri Sinsari Sinsari Otti ID Name Operation		
	I System	>	Current Astroportions 1 No Data		
			Add Panking Space Clear		
			Delete All		
			Note: The total number of parking spaces ≤4. Report Settings >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		
			Aarm Settings		
			Save		

Setting steps are as shown below:

Step 1: Choose parking detection mode, which including Occupancy Detection and Parking Detection.

[Occupancy Detection]



Step 2: Click the button to enable the Occupancy Detection.

Step 3: Click to enable the Parking Image Enhancement, which can efficiently enhance vehicle image quality, thereby improving detection accuracy.

Note: Custom Image Parameters may not take effect as configured while this mode enabled.

Parking Image Enhancement Mode				
Parking Image Enhancement On	Parking Image Enhancement Off	Smart Phone		

[Detection Settings]

Step 4: Set Detection Sensitivity and Occupancy Sensitivity. Level 1~10 are available, the default level is 5.

Table 202. Description of the buttons

Parameters	Function Introduction
Detection Sensitivity	Level 1~10 are available, the default level is 5. The default sensitivity of 5 is the balance point between target missed detection and false detection. The higher the sensitivity, the easier the occupancy is to be detected. Users can adjust the detection sensitivity as needed to avoid some missed or false detection.
	For example, when the sensitivity is set to 10, it is possible to identify some objects that look like cars as cars, resulting in false detection.
Occupancy Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the parking space will be judged to be occupied if it is slightly occupied for a while; the lower the sensitivity, the parking space needs to be occupied for a certain period of time before it is judged to be occupied.
	For example, when the sensitivity is set to 10, the parking space may be judged as occupied when the vehicle passes by the parking space only briefly.

Step 5: Draw the detection areas based on the parking lot. Click "Add Parking Area" button to configure the information of detection area.

Mile	sight Network Camera	a							(🕀 English 🗸 🛛 💄 admin 🗸
	🖆 Media	>	Parking Management							
	Wetwork Second Sec	>				Application Mode		Occupancy Detection	Parking Dete	ction
\odot	E Storage		0-501	in di Clinto	010	Enable Detection				
	Event	>		3	New Are			0		
¢®	📾 Parking	×								
	Parking Management		BABB	Area Name	A3			50		
	System	>		Planned Spaces	14					
				Distribution	Horizontal	~		5O		
			1 Add Parking Area Cle	Numbering Scheme	Decrease	to 1		Planned Spaces	Distribution	Numbering Scheme
								10	Horizontal	Decrease to 1
					Set			14	Horizontal	Decrease to 11
			l							
						Note: The total nu	imber of p	arking spaces ≤100.		
						Report Settings				
						Alarm Settings				
						Save				

lilesi	<i>ight</i> ·Network Came	era								🕀 English 🗸	🐣 admi
	🚔 Media	>	Parking Management								
2	Network	>		Application Mo	de	 Occupancy Detection 	Parking Dete	ction			
	Storage			Enable Detect				CION			
	S Event	>				0					
	Parking	~		Detection S							
	Parking Manageme	nt			Sensitivity	50			Ť		
	System	>	TAR - FACTO		sensitivity						
			Add Parking Area Clear			50					
			Add Parking Area Clear	No.	Area Name	Planned Spaces	Distribution	Numbering Scheme	Operation		
				1	A1 A2	10	Horizontal	Decrease to 1 Decrease to 11	28		
				3	A3	14	Horizontal	Decrease to 25	28		
				4	A4	12	Horizontal	Decrease V to 39	€ 🕄		
				Delete	All						
						parking spaces ≤100.					
				Drag the	area to move it. A	nd drag intersections to a	djust each parking sp	ace.			
				Report Set	ings				>		
				Alarm Setti	ngs				>		
				Save							

Note: The total number of parking spaces should be less than or equal to 100.

Table 203	. Descri	ption of	the	buttons
-----------	----------	----------	-----	---------

Parameters	Function Introduction
Area Name	The name of the detection area can be edited. Such as A1, A2, B1, B2. Image: Note: Valid content: 1~10 digits or letters!
Planned Spaces	Enter the number of parking spaces on the drawn detection area. Numbers between 1~99 are available. For example, Area A has 15 planned spaces:

Parameters	Function Introduction						
	Define the distribution of parking spaces. Horizontal and Vertical are available. For example, the distribution of Area A is Horizontal, and the distribution of Area B is Vertical:						
	New Area ×						
Distribution	Area Name A Planned Spaces 15 Distribution Horizontal Numbering Scheme Horizontal Vertical						
	Define the parking space numbering scheme and the starting numbers. Increase and Decrease of numbering scheme are available, and the starting numbers between 1~99 are available. For example, the numbering scheme of Area A is Increase from 1, and the numbering scheme of Area B is Decrease to 11:						
	New Area ×						
Numbering Scheme	Area Name A Planned Spaces 15 Distribution Horizontal Numbering Scheme Decrease Increase Decrease						
2	Edit the Area Name and Numbering Scheme of the detection area.						
Ū	Delete the detection area.						
	Save the edit.						
5	Cancel the edit.						
Delete All	Delete the all added detection areas.						

Step 6: You can drag the detection area to move it. And drag intersections to adjust each parking space.

Note: Please click Save button to save the configuration after the adjustment.

M ile.	sight ·Network Camera	a							(🕀 English 🗸 🛛 💄 admin 🗸
	🖧 Media	>	Parking Management							
i	Network	>		CCCC -		Application Mode	c	Occupancy Detection	Parking Detect	ction
€	Storage					Enable Detection		2		
<u>ه.</u>	Event	>		3	New Area			Ō		
¢®	Parking	~								
	Parking Management			Area Name	A3			5		
	System	>		Planned Spaces	14			5		
				Distribution	Horizontal	×				
			1 Add Parking Area Cle	Numbering Scheme	Decrease	to 1		Planned Spaces	Distribution	Numbering Scheme
								10	Horizontal	Decrease to 1 Decrease to 11
					Set			14	Horizontai	Decrease to Ti
			L			Delete All				
						Note: The total num	nber of pa	arking spaces ≤100.		
						Report Settings				
						Alarm Settings				
						Save				

Step 7: After the configuration, the occupied parking spaces in the detection area will be covered with red to provide a more intuitive interface. And the parking information containing total number, occupied number and available number will be displayed on the interface.

Note: The minimum recognition pixel is 90*50@8MP.

Mile	<i>sight</i> ·Network Camera					🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	Parking Management				
•	Network	>		Application Mode	Occupancy Detection Parking Detection		
\odot	😤 Storage		M DESCRIPTION V				
	5 Event	>					
ø	Parking	~		Detection Settings	· · · · · · · · · · · · · · · · · · ·		
	Parking Management			Report Settings	u -		
	System	>		Report Protocol	• НТТР СТСР		
			Add Parking Area Clear	URL	1 2 3		
					https://abc.com		
				Enable			
				HTTP Method	Get 💙		
				User Name			
				Password			
				Periodic Report			
				Period	3600 s(5-3600)		
				Alarm Settings	3		
				Save			

[Report Settings]

Step 8:	With high	compatibility,	the parking	information of	can be re	eported by I	HTTP(s).
---------	-----------	----------------	-------------	----------------	-----------	--------------	----------

Report Settings		
Report Protocol	НТТР	~
URL	1 2 3	
	https://abc.com	
Enable		
HTTP Method	Get	~
User Name		
Password		
Periodic Report		
Period	60	
Save		

Table 204. Description of the buttons

Parameters	Function Introduction				
Report Protocol	Support to report the parking informations to specified HTTP URL.				
URL	The HTTP URL format can be customized,for example: http://{ip}:{port}/api/ httpEvent?xxxxxx				
Enable	Start or stop using HTTP.				
HTTP Method	There are two HTTP push methods, including Post and Get.				
Snapshot	Click the button to upload the snapshots via HTTP post. Note: This option is available just for Post HTTP Method.				
User Name	Receiver name.				
Password	Receiver password.				
Periodic Report	According to the configured period, the parking information is pushed via HTTP post periodically.				
Period	5~3600s of period time are available.				

Step 9: Click the button to enable the Report.

Step 10: Click the button to enable the Periodic Report of parking space. And set the interval period time.

Periodic Report		
Period	3600	s(5-3600)
Save		

[Parking Information transfer for Post Method]

Camera will post the parking information data in JSON format in real time when it is triggered. The content will be sent is as follows:

Trigger Post

POST /post HTTP/1.1 User-Agent: httpclient

Host: 192.168.2.24:1234

Content-Type: application/json

Content-Length: 108615

{

"event": "Parking Space Detection",

"device": "Network Camera",

"time": "2021-03-30 13:51:56",

"report_type": "trigger",

"resolution_w": 3840,

"resolution_h": 2160,

"parking_area": "A",

"index_number": 1,

"occupancy": 1, //1:occupied, 0:available

"coordinate_x1": 3,

"coordinate_y1": 220,

"coordinate_x2": 13,

"coordinate_y2": 220,

"coordinate_x3": 3,

"coordinate_y3": 330,

"coordinate_x4": 13,

"coordinate_y4": 330,

"snapshot":

"/9j/4AAQSkZJRgABAQAAAQABAAD/2wDFABALDA4MChAODQ4SERATGCgaGBY... (Image code)"

}

Кеу	Sample of Value	Description			
event	Parking Space Detection	The event name of the parking information data.			
device	Network Camera	The Device Name which can be configured on the System Info of camera. The default is Network Camera.			
time	2021-03-30 13:51:56	The time when event is triggered.			
report_type	trigger	Type of parking information reported, trigger or interval. The width of processing resolution. The height of processing resolution.			
resolution_w	3840				
resolution_h	2160				
parking_area	A	The parking area name of the triggered parking space.			
index_number	1	Such as A1, A2, B1, B2.			
occupancy	1	The status of parking space detection, 1 indicates occupied and 0 indicates available.			
coordinate_x1	3				
coordinate_y1	220	The top left coordinates of triggered parking space.			
coordinate_x2	13				
coordinate_y2	220	The top right coordinates of triggered parking space.			
coordinate_x3	3				
coordinate_y3	330	The bottom left coordinates of triggered parking space.			
coordinate_x4	13				
coordinate_y4	330	The bottom right coordinates of triggered parking space.			

Table 205. Description of the buttons

Кеу	Sample of Value	Description				
snapshot	(Image code)	The snapshot of the event, depends on whether it is configured to send together.				

Interval Post

POST /post HTTP/1.1

User-Agent: httpclient

Host: 192.168.2.24:1234

Content-Type: application/json

Content-Length: 108615

{

"event": "Parking Space Detection",

"device": "Network Camera",

"time": "2021-03-30 13:51:56",

"report_type": "interval",

"total_occupied": 217,

"total_available": 12,

"parking_detail":

[

```
{"area_name": "A",
```

"numbering_scheme": [2,3,4,5,6,7,8,9,10],

"occupancy": [1,0,0,1,0,1,1,0,0]

```
},
```

{

"area_name": "B",

```
"numbering_scheme": [1,2,3,4,5,6,7,8,9],
```

```
"occupancy": [1,0,0,1,0,1,1,0,1]
```

},

{

"area_name": "C",

"numbering_scheme": [11,10,9,8,7,6,5,4,3],

```
"occupancy": [1,0,0,1,0,1,1,0,1]}
```

]

"snapshot":

"/9j/4AAQSkZJRgABAQAAAQABAAD/2wDFABALDA4MChAODQ4SERATGCgaGBY... (Image code)"

}

Table 206. Description of the buttons

	Кеу	Sample of Value	Description
	event	Parking Space Detection	The event name of the parking information data.
device		Network Camera	The Device Name which can be configured on the System Info of camera. The default is Network Camera.
	time	2021-03-30 13:51:56	The time of periodic push.
report_type		interval	Type of parking information reported, interval or trigger.
total	_occupied	217	Total number of parking spaces occupied in the current parking space detection area.
total	_available	12	Total number of available parking spaces in the current parking space detection area.
	area_name	A	The parking space detection area name.
	numbering_scheme	[2,3,4,5,6,7,8,9,10]	The parking space number of the current parking detection area.
parking_detail	occupancy	[1,0,0,1,0,1,1,0,0]	The status of parking space detection of the current parking detection area, 1 indicates occupied and 0 indicates available.
	area_name	В	The parking space detection area name.
	numbering_scheme	[1,2,3,4,5,6,7,8,9]	The parking space number of the current parking detection area.

	Кеу	Sample of Value	Description			
	occupancy	[1,0,0,1,0,1,1,0,1]	The status of parking space detection of the current parking detection area, 1 indicates occupied and 0 indicates available.			
	area_name	С	The parking space detection area name.			
	numbering_scheme	[11,10,9,8,7,6,5,4,3]	The parking space number of the current parking detection area.			
	occupancy	[1,0,0,1,0,1,1,0,1]	The status of parking space detection of the current parking detection area, 1 indicates occupied and 0 indicates available.			
snapshot		(Image code)	The snapshot of the event, depends on whether it is configured to send together.			

[Parking Detection]

Mile	sight ·Network Camera								🕀 English 🗸	💄 admin 🗸
	😤 Media	>	Parking Management							
₽	Network	>		Application	Mode Occupancy Detection	Parking Detection				
\odot	E Storage			Enable Det						
	S Event	,			egion China	~				
ø	📾 Parking	~	Action 1 Regions	_	n Settings					
	Parking Management		Video Codec H 204	Detection				1		
	I System	>	Smart Sitem Off Current K-subjections 1		1D	Name ROI_1	Operation			
			and the way of the first in a second second		2	ROI_2	20			
			Add Parking Space Clear		3	ROI_3	2 0			
					4	ROI_4	2 0			
				De	lete All					
				Note: 1	The total number of parking spaces	s4.				
				Report S	Settings			>		
				Alarm S	ettings			>		
				Save						
					-					

Step 2: Click the button to enable the Parking Detection with LPR.

Note: LPR function is enabled at the same time.

Step 3: Select the country whose license plate numbers you want to recognize.

Step 4: Draw detection boxed in the preview. Up to 4 detection regions are supported. You can rename the parking space by referring to the name of the parking space in the parking system.

[Report Settings]

Step 5: With high compatibility, the parking information can be reported by HTTP(s). Refer to <u>Table 3 (page 405)</u> for the meanings of the items, here will not repeat again.

Report Settings		
Report Protocol	HTTP ¥	
URL	1 2 3	
	https://abc.com	
Enable		
HTTP Method	Get 🗸	
User Name		
Password		
Periodic Report		
Period	60	s(5-3600)
Save		

[Alarm Settings]

Step 6: Check the timeout alarm box. Set the maximum parking time (up to 7 days supported) as needed, and the alarm will be triggered to prevent long-term parking. Check the alarm action. If an event triggers the alarm, the alarm action can be synchronized with the alarm action in the report setting.

Alarm Settings	~
Alarm Trigger	
Timeout Alarm	
Max. Parking Time 1 min. Y (0~10080)	
Alarm Action	
Send to Platform 🥑 (Same configuration with Report Settings)	
Save	

4.7.6 System

System Setting

Here you can check System information and Date&Time.

System info

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

Mile	esight ·Network Carr	nera		🌐 English 🗸	💄 admin 🗸
	🖧 Media	>	System Info Date&Time		
	Metwork	>	Device Name Network Camera		
\odot	E Storage		Product Model PMC8266-FPC		
	la Event	>	Hardware Version V1.0		
ð	System System Setting	~	Software Version 45.8.0.2-parking		
ľ	Security		MAC Address 1C C3:16/2B.5F.D2		
	Logs Maintenance		Device Information SR100Ed370N200004		
			Alarm Input 1		
			Alarm Output 1		
			Uptime 1 days 56 minutes		
			Save		

Table 207. Description of the buttons

Parameters	Function Introduction			
Device Name	The device name can be customized.			
Product Model	The product model of the camera.			
Hardware Version	The hardware version of the camera.			
Software Version	The software version of the camera can be upgraded.			
MAC Address	Media Access Control address.			
S/N	Stock Number.			
Device Information	ormation 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. Alarm Output Image: The Alarm Output will appear only when the camera have alaoutput interface.				
Uptime	The elapsed time since the last restarted of the device.			
Save	Save the configuration.			

Date&Time

Mill	esight Network Camera	L. C.	🕀 English 🗸	💄 admin 🗸
	සී Media >	System Info Date&Time		
۲	Network	Current System Time		
\odot	E 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 $ \smallsetminus $		
	System Setting Security	Daylight Saving Time Disabled		
	Logs	Synchronize Mode ONTP server O Manual Synchronize with computer time		
	Maintenance	Time 🕓 2022-03-27 15:33:03		
		Save		

Table 208. 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			
	Synchronize Mode: 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.			

Security

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

<u>User</u>

Mill	<i>esight</i> ∙Network Ca	amera			
	🖧 Media	>	User Online User Access Li	ist Security Service	Watermark About
	Network	>	Manage Privilege		
\odot	E Storage		Allow Anonymous Viewing		
	5 Event	>	Security Question		
ø	e loT	>	Security Question Edit		
	System	~			
	System Setting Security		Account Management (i)	Privilege	Operation
	Logs		1 admin	Administrator	
	Maintenance		Add		
			Save		

Table 209. 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	Function 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 Q	uestion Settings ×		
	Admin Password*			
	Security Question1 What	t's your father's name?		
	Answer1*			
	Security Question2 What	t's your father's name?		
	Answer2*			
	Security Question3 What	t'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			
Account Management	Click "Add" button, it will display Account Management page. You can add an account to the camera by entering Admin Password, User Level, User Name, New Password, Confirm, and edit user privilege by clicking Save 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. 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: Support up to 20 users, including a default user and 19 custom added users. The operator privilege is all checked by default.			

Online User

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

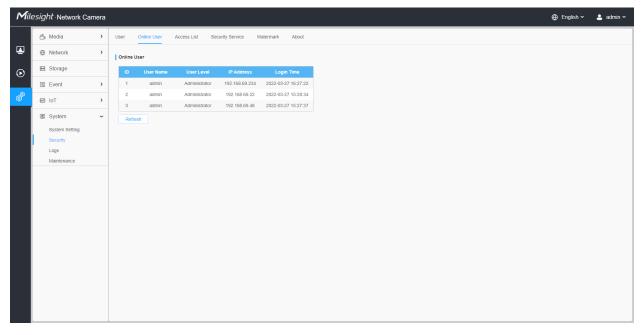


Table 210. Description of the buttons

Parameters	Function Introduction
Refresh	Click to get latest status of user accessing to camera.
ID	 Record serial number of user logging in camera. Note: There are at most 30 records shown at the list. There is only one record if the same user logs in camera by the same IP address.
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.

Access List

Mile	≘ <i>sight</i> ∙Network Ca	amera			
	🖧 Media	>	User Online User Access L	ist Security Service	e Watermark About
•	Network	>	General Settings		
\odot	E Storage		Max. Number of Connection 10		×
	5 Event	>	Access List		
ø	loT ₪	>	Enable Access List Filtering		
	I System	~	Filter Type O Alle	ow 💿 Deny	
	System Setting Security		ID Rule	Address	Operation
	Logs			No Data	
	Maintenance		Add Delete All		
			Save		

Table 211. 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.
Access List	Enable Access List Filtering: Able to access or restrict access for some IP address.

Parameters	Function Introduction				
	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.			
	<u></u>	Edit the selected IP on access list.			
	Ē	Delete the selected IP on access list.			
Save	Save the configuration.				

Security Service

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

Table 212. Description of the buttons

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

Watermark

Network Network Storage Enable	Sting IP CAMERA	
Storage Storage Enable Enable Enable System System System Security Logs	Sting IP CAMERA	
Image: System Seturg Security Security Logs	Sting IP CAMERA	
Image: System Imag		
E System ~ System Setting Security Logs		
System Setting Security Logs		

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

<u>About</u>

Mile	e <i>sight</i> ∙Network C	amera						🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	User Online User	Access List	Security Service	Watermark	About		
•	Network	>	Open Source Softwar	e Licenses					
\odot	E Storage		View Licenses						
	5 Event	>							
ø	📾 loT	>							
	I System	~							
	System Setting								
	Security Logs								
	Maintenance								

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

Logs

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

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

Table 213. Description of the buttons

Parameters	Function Introduction
Main Type	There are five main log types: All Type, Event, Operation, Information, Exception and Smart.
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.
Export	Export the logs.

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

Maintenance

Here you can configure System Maintenance and Auto Reboot.

System Maintenance

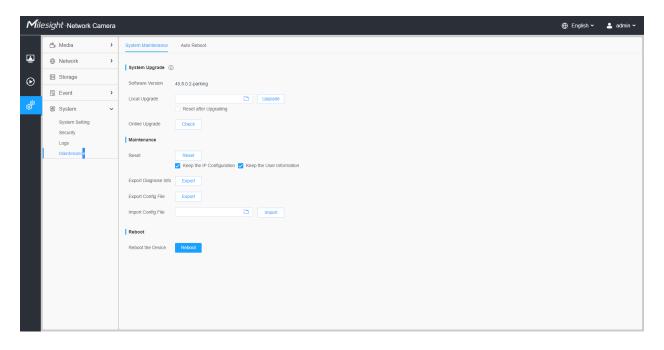


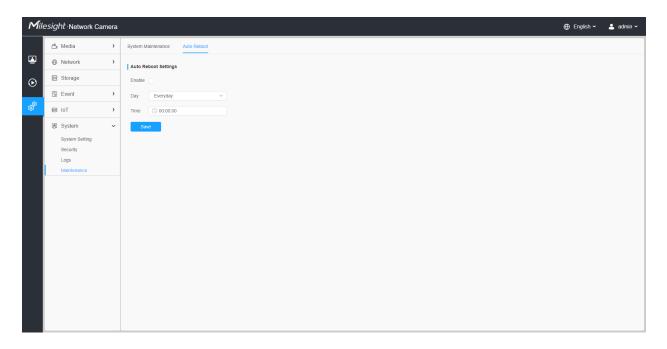
Table 214. Description of the buttons

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Parameters	Function Introduction
	 Software Version: The software version of the camera. Local Upgrade: Click the "Browse" button and select the upgrading file, then click the "Upgrade" button to upgrade. After the system reboots successfully, the update is done. You can check "Reset after Upgrading" to reset the camera after upgrading it. Online Upgrade: Click the "Check" button to check the current latest firmware version on our website, and then click "OK" to upgrade to this version. It will prompt "The current version is the latest version" if your camera is already the latest version.
System Upgrade	Tips ×
	Provide the states of the latest version.
	ОК
	Note: Do not disconnect the power of the device during the update. The device will be restarted to complete the upgrading.

Parameters	Function Introduction
Maintenance	Reset: Click "Reset" button to reset the camera to factory default settings. Keep the IP Configuration: Check this option to keep the IP configuration when resetting the camera. Keep the User information: Check this option to keep the user information when resetting the camera. Export Diagnose Info: Click this button to export logs and system information of the device operation status. Image: Note: The file format is ".txt". Export Config File: Click this button and a window will pop up as shown below: File Encryption Configuration X Input the encryption password Confirm
	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.

Auto Reboot



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

Chapter 5. Services

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

Technical Support Mailbox: support@milesight.com

Web: http://www.milesight.com

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

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