



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 7)
- 2. Road Traffic Management (page 135)
- 3. Parking Management (page 299)

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

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.

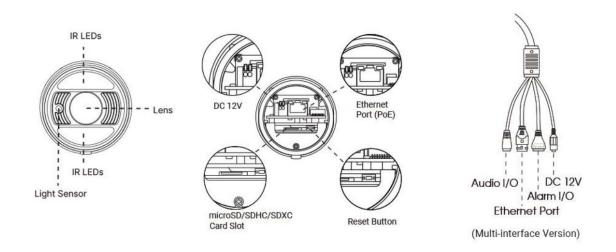
2.1.2 Related Product

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

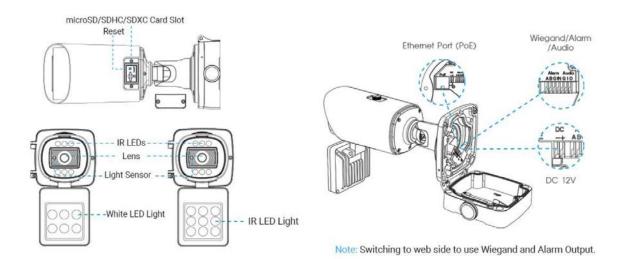
Table 2.

2.1.3 Hardware Overview

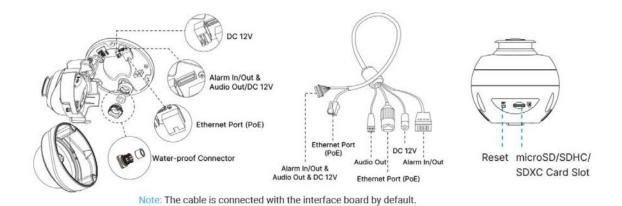
Entrance & Exit AI LPR Bullet Camera



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



• Entrance & Exit AI LPR Pro Dome Camera



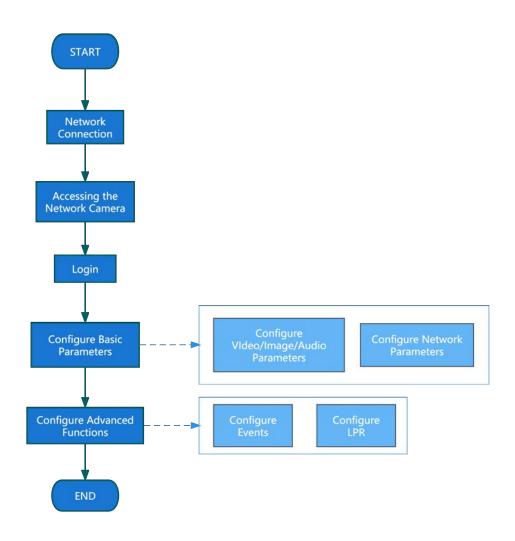
2.1.4 Related Documents

Table 3.

Document Type	Link
	Entrance&Exit Management Camera
Datasheet	https://www.milesight.com/static/file/en/download/datasheet/ipc/traffic/Milesight- Entrance-and-Exit-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

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.

Table 4. Description of f

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 11)
Accessing the Network Camera	Accessing from IP address, web browser and Milesight back-end software are available.	Assigning an IP Address (page 12)
Configure Basic Parameters	After login the camera, you can adjust the video/image/audio/network parameters as needed.	<u>Video (page 33)</u> Image (page 36)
Configure Advanced Functions	Configure LPR-related settings and other advanced functions.	<u>General <i>(page 90)</i></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.

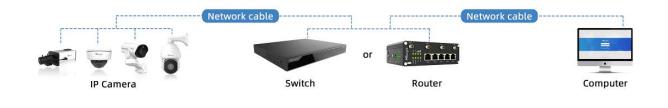
Connect the Camera to the PC Directly

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;

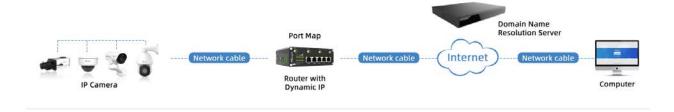
Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;

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;

9		Sector Sector	MAC	10	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpag
	Network Camera	Active	10:03:16:27:68:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373-PB	2022-03-11 20:	41.7.0.79	0
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-X238			0
11	Network Camera	Active	1C:C3:16:20:10:43	192.168.69.61	80	255.255.240.0	192.168.69.1	MS-C2963-LPB	2022-03-03 13:	43.7.0.79-LP	0
12	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266-X4G	2022-03-15 11:	45.8.0.1-Alo	0
13	Network Camera	Active	1C:C3:16:24:09:D2	192.168.69.96	80	255.255.240.0	192.168.69.1	MS-C2964-FPB	2022-01-09 17:	40.7.0.79-r7	0
14	Network Camera	Active	1C:C3:16:24:60:AA	192.168.69.97	80	255.255.255.0	192.168.69.1	MS-CS375-EPB	2022-03-14 18:	41.7.0.76-r3	0
15	Network Camera	Active	1C:C3:16:2A:06:91	192.168.69.98	80	255.255.255.0	192.168.69.1	MS-C5367-X23PC	2022-03-15 09:	45.7.0.79-r30	0
16	Network Camera	Active	1C:C3:16:2A:06:69	192.168.69.116	80	255.255.255.0	192.168.69.1	VMI-2MPX23IR	2022-03-11 21:	45.7.1.79	0
17	Network Camera	Active	1C:C3:16:24:60:F7	192.168.69.125	80	255.255.255.0	192.168.69.1	MS-C2975-PB	2022-03-10 20	40.7.0.79-17	0
18	Network Camera	Active	1C:C3:16:28:5F: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
											0
17	Network Camera	Active Active	1C:C3:16:24:60:F7 1C:C3:16:28:5F:D2	192.168.69.125 192.168.69.128	80	255.255.255.0 255.255.255.0	192.168.69.1	MS-C2975-P8 MS-C8166-FILPC Gateway 19	2022-03-10 20 2022-03-11 10	40.7.0.79-+7 45.7.0.79-LP DN5: 8 .8 .3	Ċ,

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

Select single camera:

ŭ	IP	C Tools		Network				(S) Upgrade			A Password	_
71	No.	Device Name	Status	MAC	1P	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpag
- 1	18	Network Camera	Active	1C:C3:16:28:5F: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:C3:16:28:C4:C9	192.168.69.134	80	255.255.255.0	192.168.69.1	MS-C2967-X238			õ
-	20	Network Camera	Active	1C:C3:16:22:08:53	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
1	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
-	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-+12	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-Ь	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
	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		Network Camera Device Name: Netw formation						192.168.69.1 255.255.255.0	Goteway (19		ENE 8 .8 .8	.8

Select multiple cameras:

											Q Sea	rch here	
	No.	Device Name 🔻	Status	MAC	Ib	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage	
6	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	
r.	10	Network Camera	Active	1C:C3:16:27:68:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373	2022-03-11 20	41.7.0.79	0	
	11	Network Camera	Active	1C:C3:16:2A:07:33	192.168.69.60	80	255.255.255.0	192.168.69.1	MS-C2967	2022-03-15 14:	45.7.0.80-LP	0	
	2	Network Camera	Active	1C:C3:16:20:10:43	192.168.69.61	80	255.255.240.0	192.168.69.1	MS-C2963	2022-03-03 13:	43.7.0.79-LP	0	
	.3	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266	2022-03-15 11:	45.8.0.1-Alo	0	c
	.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	
	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
												-	-
7/58	ž	Sime IP	Start IP:	192.168.69 .96	Parts 80	N	etmask: (255.25	5.240.0	Gateway: 19	2.168.69 .1	DNS: 8.8	.8 .8	£.
									(J) Activa	le 🔔 Export l	Device List	() Modify	
	ating Ir								9	9		9	

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 Too		Network				— 🧿 Upgrade		4 (add 6 (For 0 (588	sword
	No Device	Name Bal	us MAC	P A	Port	Netmask	Gateway	Model	Run-up Time	Version
	59 Network	amera inad	Ne 1C:C3:16:24:09:D2	192.168.5.190	80 3	55.255.255.0	192.168.5.1	MS-C2964-FPB	2018-12-19 17.48.04	40.7.0.65-pwd
	C C Hatuaria		100240040020	400 400 7.74	- 00 - 1		100/168.7.1	MS-C3762-FIPB	2018-12-21 17:43:15	41.7.0.65-pwd
100 T. J.			Adivation				× 168.5.1	MS-C4472-FIPB	2018-12-24	41.7.0.68-a6
IPC Tools							168.7.1	MS-C2975-PB	2018-12-24	40.7.0.68
	0						168.7.1	MS-C5362-EPB	2018-12-18	41.7.0.65-pwd a6
	3					_	168.2.1	MS-C2862-FPB	2018-12-21 16:44:30	41.7.0.68-36
	User Name:	admin					168.5.1	MS-C2963-PB	2018-12-18	40.7.0.67-r21
	Password:						168.7.1	MS-C2972-FPB	2018-12-20 13:27:14	40.7.0.67-110
	Confirm:	(168.7.1	MS-C5372-FIPB	2018-12-18 22:18:58	41.7.0.67-ptz- dome-a6
\sim	Security Question 1:		father's name?				168.7.2	MS-C3772-FIPB	2018-06-15	41.7.0.65-r4
NVR Tools	Security Answer 1:	(auter s namer			- 23	168.7.1	MS-C4482-PB	2018-12-20 16:15:03	41.7.0.65-pwd a6
1.1.1.000.0000.000000	Security Question 2:	What's your	father's name?			-			2019-07-04	
	Security Answer 2:						255.0	Gateway/ 192.1	168.5 .1 D	8. 8. 8. 8 Ch
	Security Question 3:	What's your	father's name?			•		Activate	Export Device L	ist. 🗶 Moo
	Security Answer 3:	0				0				9
(\pm)								(2)		
Calculators					0		Save			

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

0							Ø—	- 6			¢ —	
	⊾` IPC	C Tools		letwork				Upgrade			345678 arch here	
•	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	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 09:46:16	40.7.0.71-r8	e
	65	Network Camera	Active	1C:C3:16:22:19:6F	192.168.7.201	80	255.255.240.0	192.168.7.1	MS-C9674-PB	2019-09-17 11:20:43	43.7.0.72-fsh- autotrack-a2	C
	66	Network Camera	Active	1C:C3:16:22:01:0B	192.168.7.202	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 i	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	6
<u> </u>	60	2021年本約完2	Activo	10-02-18-01-20-	100 160 7 014	00	255 255 240 0	102 169 7 1	NS C2072 PB	2019-09-26	40 7 0 71 -15	6
		evice Name: etwor	k Camor	a IP: 192,168,7	.114) Port 8		Netmask: 25	5 255 240.0	Gateway: 192.1	168.7 .1 DN	18: 8.8.8.8	-
		ence name. Cawor	Coamen	102.100.1		5	116111251. 25					14.
perat								5) Activate 📥	Export Device Li	st 🗶 Moc	
1	2019	-09-30 09:10:53		1	[1C:C3:16:24:09:D2	2] Modi	fy IP:192.168.7.11	3->192.168.7.1	14 successfully.			
										🕒) Sav	e 🗙 Clear	,
											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) F	Properties	?	×
General			
You can get IP settings assigned autom this capability. Otherwise, you need to for the appropriate IP settings.			
Obtain an IP address automatically	у		
• 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	atically		
Ouse the following DNS server addr	esses:		
Preferred DNS server:	192.168.1.1		
Alternate DNS server:			
Validate settings upon exit	Adva	anced	
	ОК	Car	ncel

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);

dvanced TCP/IP Setti	ings ? 🚬 🗙
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
Automatic metri	Add Edit Remove
CP/IP Address	OK Cancel
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	e <i>sight</i> ∙Network C	amera				🕀 English 🗸	💄 admin 🛩
	📥 Media		TCP/IP HTTP	RTSP UPnP DDNS En	al FTP		
₽ ⊙	Network Base Advanced	*	ј ІРу4 Туре	Static DHCP			
ø	B Storage		IP Address	192 , 168 , 69 , 66	Test		
O	Event	,	IPv4 Subnet Mask	255 . 255 . 255 . 0			
	G System	•	IPv4 Default Gateway Preferred DNS Server I IPv6 IPv6 Mode IPv6 Address IPv6 Address IPv6 Default Gateway IPv6 Default Gateway MTU MTU	8 4 8 4 8 4 8	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 https://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.

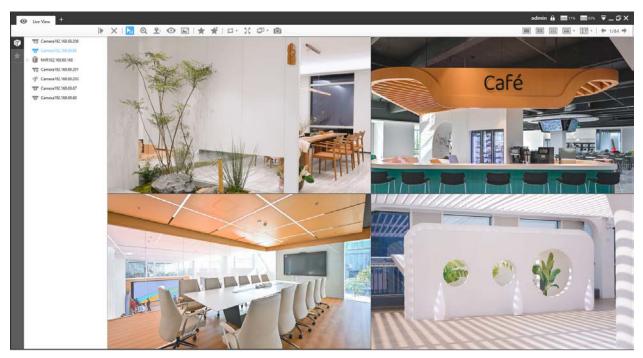
For detailed information about how to use the Milesight NVR Series, please refer to *Milesight NVR User Manual*.



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/.

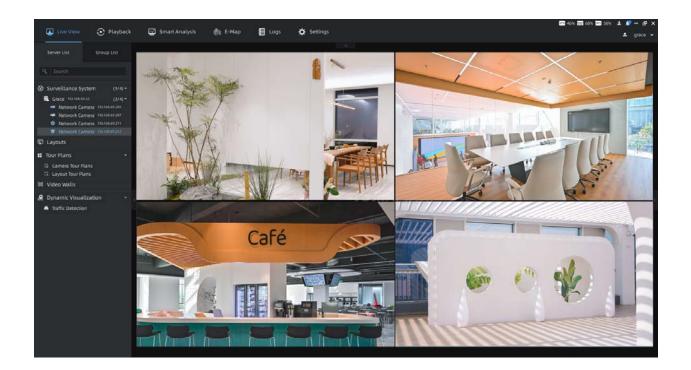
Please install Milesight CMS; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to *Milesight CMS User Manual*.



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	ැ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	😽 Alarm	When an alarm of Motion Detection was triggered, the icon appears.
10	ک 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	ک 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
<u>S</u>		 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.
<u>P</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. Image: Note: Only work when your camera is equipped with auto focus lens. Focus-/Focus+: Click to focus near or far of the lens.
	j 🗇 📀	 Note: Only work when your camera is equipped with auto focus lens. 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".
¢ ¢		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									ө в	nglish 🖌 🐣 admi
Primary St	tream 🖌 LPR	~								1	:
	Statements of the local division of the loca		22	111/2022 05	55922	Sec. 1		13			
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1			1		ps 0*1080 205 00	Recognition Re AA802T		Type: Visitor Plate Co le Color: White Speed: 1	ID: White Vehicle Type: C 113km/h Direction. Appr		O
Ho.	License Plate	Snapshot	Plate Type	Frame Rate 11 Resolution 1920 Video Codin: H Smart Stream (ps 0*1080 205 00			le Color: White Speed. 1	113km/h Direction Appr		O O Detaul
No. 11	License Plate AAB	Snapshot	Plate Type Vision	Frome Rate 11 Resolution 1928 Video Codec H Smart Stream (Current Connec	ps. 2450 285 286 286 286 286 286 286 286 286 286 286	AA802T	N Vehic	e Color: White Speed: 1 Detection Region	113km/h Direction Appr	oach	O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-
	AA80	240 million	Visitor Visitor	Frome Rate 11 Resolution 1920 Video Codec H Smart Stream (Curront Connec Plate Color White White	ps or 1080 265 26 clions 4 Vehicle Type Car SUV	AA802T Vehicle Color	N Vehic Speed Direction 113km/h & Approx/ 77km/h & Approx/	te Color: White Speed: 1 Detection Region 1	113km/h Direction: Appr Time 2022-11-22 08:55:31 2022-11-22 08:56:29	oach Operation Q面 Q面	O O Detaut
11	AA80 AB00 AB00		Visitor Visitor Visitor	Frame Rate 11 Resolution 1929 Video Codec H Smart Stream (Carront Connee Plate Color White White White	ps or 1680 205 of chors: 4 Vehicle Type Car SUV SUV	AA802T Vehicle Color White Black Black	N Vehic Speed Direction 113km/h & Approch 77km/h & Approch 74km/h & Approch	e Color: White Speed: 1 Detection Region 1 1 2	Time 2002.11-22.06.55.31 2022.11-22.06.55.29 2022.11-22.06.55.25	oach Operation Q (2) Q (2) Q (2)	O O Detual
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11 10 9	AA80 AB00 AE AB		Visitor Visitor Visitor	Frame Rate 11 Resolution 1929 Video Codec H Smart Stream (Carront Connee Plate Color White White White	ps or 1680 205 of chors: 4 Vehicle Type Car SUV SUV	AA802T Vehicle Color White Black Black	N Venic Speed Direction 113km/h & Aeprach 77km/h & Aeprach 74km/h & Aeprach 61km/h & Aeprach 61km/h & Aeprach	te Color: White Speed: 1 Detection Region 1 1 2 2 2 2	Time 2002.11-22.06.55.31 2022.11-22.06.55.29 2022.11-22.06.55.25	Operation QE QE QE QE QE	O Default
11 10 9	AABO ABO AJ		Visitor Visitor Visitor Visitor	Frome Rate 111 Resolution 1920 Video Code: H Smart Stream C Current Connor Plate Color White White White White	ps pr1090 205 205 205 205 205 205 205 205 207 207 207 207 207 207 207 207 207 207	AA802T Vehicle Color White Black Black White	N Vehic Speed Direction 113km/h & Approx/h 77km/h & Approx/h 74km/h & Approx/h 61km/h & Approx/h	te Color: White Speed: 1 Detection Region 1 1 2 2 2 2	Direction: Appr Time 2022:11-22 06:55:31 2022:11-22 06:55:25 2022:11-22 06:55:25 2022:11-22 06:55:24	oution Operation QE QE QE	O Debuil
11 10 9 8 7	AAB0 AB00 A A A A A B A B A B A B B A B B B B		Visitor Visitor Visitor Visitor Visitor	Frame Rate 11 Resolution 192 Video Codac H Smart Stream (Connort Cronoo Plate Color White White White White White White White	po pr 1080 205 205 205 205 205 205 205 207 207 207 207 207 207 207 207 207 207	AA802T Vehicle Color Unite Black Black White Black	N Venic Speed Direction 113km/h & Aeprach 77km/h & Aeprach 74km/h & Aeprach 61km/h & Aeprach 61km/h & Aeprach	te Color. White Speed. 1 Detection Region 1 1 2 2 2 2 1 1 1 1 1 2 2 1 1 1 1 1 1	Direction: Appr Time 2022:11-22 06:55:31 2022:11-22 06:55:25 2022:11-22 06:55:25 2022:11-22 06:55:24 2022:11-22 06:55:24	Operation QE QE QE QE QE	O Defaul
11 10 9 8 7 6	AABO ABO A A A E ABI A		Visitor Visitor Visitor Visitor Visitor Visitor	Frame Rate 11 Resolution 192 Video Codac H Smart Stream 0 Commit Connor Plate Color White White White White White White White White	pp pr1080 205 205 205 205 205 205 205 205 205 20	AA802T Vehicle Color Vhite Black Black White Black Yellow	N Venic Speed Direction 113km/h & Apprach 77km/h & Apprach 74km/h & Apprach 61km/h & Apprach 62km/h & Apprach	ie Color: White Speed: 1 Detection Region 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ititkmin Direction: Appr 2022: 11: 22: 06: 56: 31 2022: 11: 22: 06: 56: 31 2022: 11: 22: 06: 56: 29 2022: 11: 22: 06: 56: 24 2022: 11: 22: 06: 56: 24 2022: 11: 22: 06: 56: 23	Operation Q.E. Q.E. Q.E. Q.E. Q.E. Q.E. Q.E.	Cetsul

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".

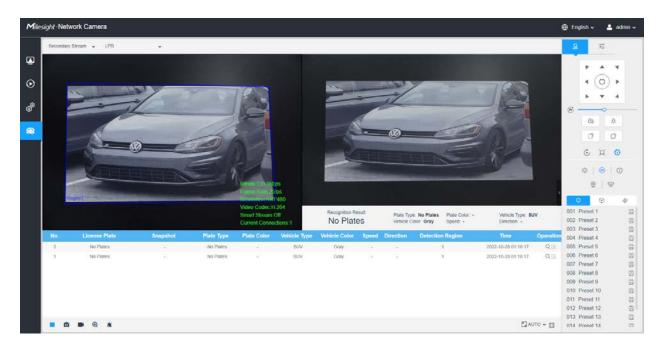


Table 6. Description of the buttons

	Parameter	Description
1	Live Video	Click to access the live view page.
2	Playback	Click to access the playback page.
3	Settings	Click to access the configuration page.
4	LPR Mode	Click to access the LPR Mode page.
5	⊕ English ∽	Click to select system language.
6	💄 admin 🗸	Display the user name and click to logout.
7	Primary Stream 🗸	Choose the Stream (Primary/Secondary/Tertiary) to show on the current video window.

	Parameter	Description
8	Hide Detection Region ~	
9	Stop/Play	Stop/Play live view.
10	fb Alarm	When the Black List license plates passing by, the icon appears.
11	E Alarm	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	o Snapshot	Click to capture the current image and save to the configured path. The default path is: C:VMS\+-1\ IMAGE-MANUAL.
14	Start/Stop Recording	Click to 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 .
15	Q Digital Zoom	When enabled, you can zoom in a specific area of video image with your mouse wheel.
16	Manual Output	Manually trigger Camera Alarm Output.

	Parameter	Description
17	K AUTO ✓ Window Size	Click to display images at a window size.
18	Full Screen	Click to display images at full-screen.
Operation	Q	Click to view selected license plate with a large picture.
Operation	8	Click to add the selected license plate to White/Black List.

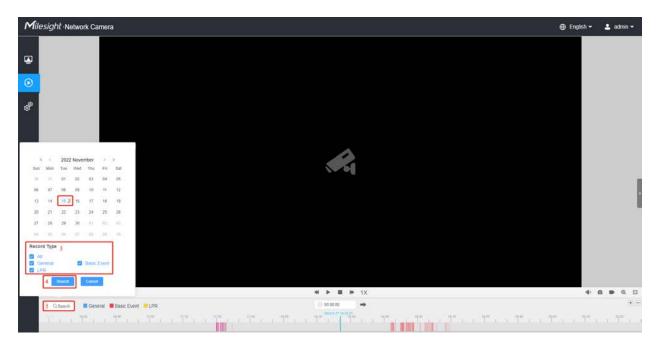
2.5 Playback

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 7. Description of the buttons

No.	Parameter	Description
Q Search	% 2022 Noverther > > Sun Mon Tue Wed Thu Fri Sat 30 31 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 01 02 03 04 05 05 07 08 09 10 Record Type Ø OS 05 07 08 09 10 LPR Satch Satch Satch Satch Satch Satch	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

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

Table 8. Description of the buttons

No.	Parameter	Description
1	بر » Mute	Click to enable the audio.
2	o 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 Ca	amera	t					English ¥	•
👌 Media	~	Primary Stream Sec	ondary Stream	Tertiary	Stream			
Video Irrage Audio		Record Stream Type	General	Ċ.	Event			
Network		Video Codec	 H.264		11.254	÷		
B Storage		Frame Size	1920*1080			×		
Event	٠,		25	- 41			fps	
🐼 System	•	Bit Rate	4096		4096	4		
		Smart Stream	Off	- 4	0e			
		Bit Rate Control	CBR		CON	ú.		
		Profile	Main	- 4	Man 1	÷		
		I-frame Interval	50				frame(1-120)	
			Save					

Secondary Stream Settings

Mile	e <i>sight</i> •Network C	Camera					🕀 English 🛩	💄 admin 🛩
	占 Media	,	Primary Stream	Secondary Stream	Tertiary	Stean		
•	Video Image		Enable					
۲	Audio		Video Codec	H.264	1			
ď	B Storage		Frame Size	640*480	Y			
	Event	,	Maximum Frame Rat	e 25	1.01	fps		
			Bit Rate	512	÷.	ktips		
	🕅 System	,	Smart Stream	Off	9			
			Bit Rate Control	CBR	14			
			Profile	Man	Ŷ			
			I-frame Interval	50		frame(1-120)		
				Save				

Tertiary Stream Settings

filesight Network	Camera					🕀 English 🛩	💄 admin
👌 Media Video	÷	Primary Stream Ser	condary Stream	Tertiary	Nean		
Image		Enable					
Audio	140	Video Codec	H.264	10			
Network	,	Frame Size	640*480	¥.			
B Storage		Maximum Frame Rate	25	- Q.	tps		
🖾 Event	>	Bit Rate	1024	ŵ.	kūps		
🐼 System	,	Smart Stream	or	- Q.			
		Bit Rate Control	CBR	- 41			
		Profile	Main				
		I-trame Interval	50		frame(1-120)		
			Sine				

 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.
Bit Rate Control	VBR : Variable Bitrate. VBR files vary the amount of output data per time segment.
Image Quality	Low/Medium/High are available, this item is optional only if you select VBR.

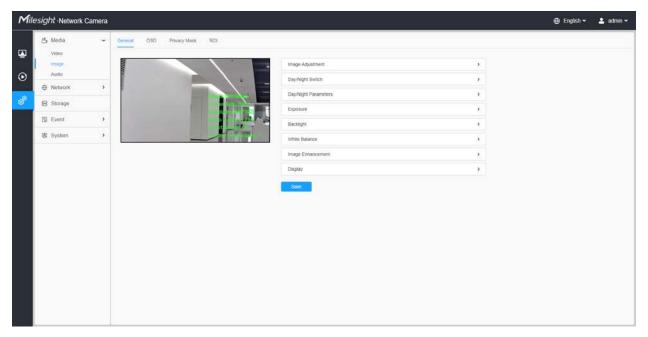
Parameters	Function Introduction
Profile	The option is for H.264, Main/High/Base can be selected as needed.
I-frame Interval	Set the I-frame interval to 1~120, 50 for the default. This item is optional only if you select the H.265/H.264. The number must be a multiple of the number of frames.

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]

Milesight Network	Camera			🕀 English 🛩 💄 admin
Media Video Image Audio	Ceneral	OSD Privacy Mask ROI	Image Adjustment	
Network	>		Contrast 50	
B Storage			Saturation 50 0	
Event	>		Sharpness 50	
System	>		20 DNR 50	
			3D DNR 50 0	
			Default	
			Day/Night Switch	3
			Day/Night Parameters	x
			Exposure	*
			Backlight	2
			White Balance	> >
			Display	>
			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.

Rote:

- 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.

lilesight Network Ca	mera				🌐 English 🗸 💄 admi
🛆 Media Video	- General	OSD Privacy Mask ROI			
Image	line.		image Adjustment	2	
Audio		1	White LED Light		
Network Storage	>		Light Control O Auto Always or	a C Off C Customize	
			Sensitivity a		
[5] Event	>		Detay Time 5	s(1-60)	
(R) LPR	>		Brightness 100		
🕱 System	>		Note: Write LED Light and IR Light can not be turned on	at the same time!	
			Day/Night Switch	•	
			Day/Night Parameters	2	
			Exposure		
			Backlight		
			White Balance	2	
			Image Enhancement	() ()	
			Display	3	
			Save		

Table 11. Description of the options

Paran	neters	Function Introduction				
Light Control	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! 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.				

Param	neters	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 Ligh	at 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.

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•	Media Video Image Audio	÷	General OSD Privacy Mask ROI	ent	•		ſ
 ⊙ 	Network	•	Dayhlight Se		<u> </u>		
0 @	Storage	,	Mode Start Time of	Night Day Auto O Customize			
	@ LPR	,	End Time of	ight (6) 06:00			
	厦 System	,	Diry/Night Si Smart IR Mi				
			Mode Near View II	Auto 🧿 Ĉustomize			
			Pear View IP				
			Supplement IR Strength				
			Day/Night Par		•		
			Exposure Backlight		3 3		

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

Table 12. 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 13. Description of the buttons

Parame	eters	Function Introduction					
		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					
		Mode O Auto O Customize					
	Auto	IR Strength Value Near: 20 Far: 70 Supplement: 70 🔿					
		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						
		 IR LED Supplement Light: <u>https://youtu.be/YVTVR88V0Rg</u> White LED Supplement Light: <u>https://youtu.be/wn18oEzY5yk</u> 					

[Day/Night Parameters]

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۵	Amedia Video	,	General Of	D Privacy Mask	ROI	Image Adjustment							_
\odot	Audio		line i								×		
	Network	,		-		Day/Night Switch					*: •		
ø	B Storage					Columnation and a column of the	* Day		L Night				
	Event	,				Exposure Level	5	÷.	5	4			
	🗷 System	,			- Tring the st	Minimum Shutter	1/25	÷	1/25	w.			
						Maximum Shutter	1/100000	S.	1/100000	<u>.</u>			
						Limit Gain Level	100		100				
						IR-CUT Latency	55	÷	55	1. 1			
						IR-CUT	On		Off	*			
						IR LED	. 01		On				
						Color Mode	Color	2	B/W	*			
							Reset		Reset				
						Advanced Schedule Mode	B						
						Exposure					>		
						Backlight							
						White Balance	Save	1					

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	Function introduction Here you can customize your special demands for different time, then the Day node and Night mode will switch automatically according to your settings. Image: Construct Settings Image: Construct Settings Image: Consettings Image: Construct Settin				

[Exposure]

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Min.	esight -Network Ca b Media video Image Audio ⊕ Network ⊟ Storage ⊡ Event ঊ System		CSD	Phacy Mask	R0I	Image Adjustment Day/Night Switch Day/Night Parameters Exposure Mode Backlight White Balance Image Enhancement Display	Aufo Manual Schedule	⊕ English v	≗ admin ~
							Sire		

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 I environment automatically. Manual Mode: The camera will adjust the brightness according to the you set, you can set the exposure time from 1~1/100000s, the highe is, the brighter the image is. Schedule Mode: You can customize the schedule to enable/disable Mode and Manual Mode.	e value r the value						
Exposure Mode		X uto Mode anual Mode						

[Backlight]

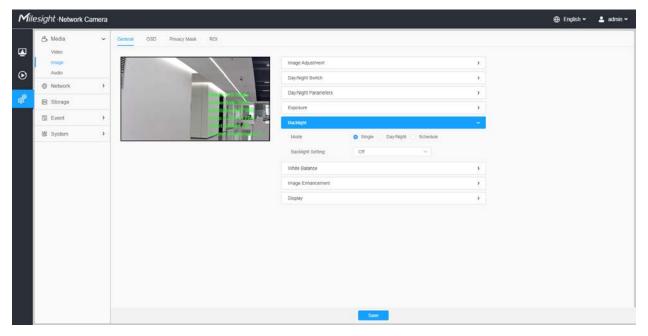


Table 16. Description of the buttons

Parameters	Function Introduction	
	 Single Mode: Set single mode for BLC/WDR/HLC. Note: Do not support WDR and General HLC while High Frame Fenabled. Day/Night Mode: Support BLC/WDR/HLC on Day Enhancement Mode Enhancement Mode separately. Schedule Mode: Set schedule mode for BLC/WDR/HLC. You can cus the schedule to enable/disable BLC/WDR/HLC mode. 	e/Night
Backlight Mode	Edit × Sun. 0 2 4 6 8 10 12 14 15 18 20 22 24 Sun. Mon. Image: Constraint of the second of the s	

Rote:

• 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]

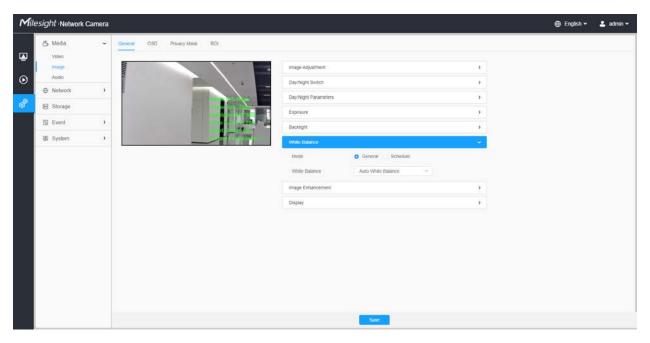
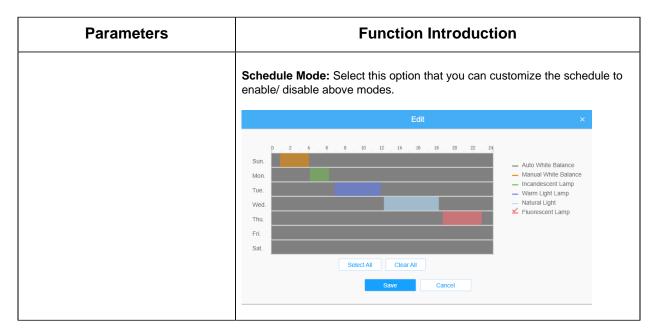


Table 17. Description of the buttons

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. • Auto 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	Parameters	Function Introduction
light. • Fluorescent Lamp: Select this option when light is similar with Fluorescent Lamp.	White Balance	 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]

Media Video Image Audio Network	· General	OSD PhacyMask ROI	Image Adjustment Day/Night Switch			×	
Audio Network	All lines					x :	
e Network	,		Dav/Night Switch				
			coprogin conten			•	
The market market and the second	- 25	and the second second	Day/Night Parameters			>	
B Storage	_		Exposure			>	
Event	•		Backlight			>	
🐼 System		- Tom	White Balance			3	
			Image Enhancement				
			IR Balance Mode	07	(in 1		
			Reduce Motion Blur	01			
			Defog Mode	01	194		
			Digital Image Stabilisation	04			
			Display			3	

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	Decrease the blur and shakiness of the image.

[Display]

filesight ·Network	Camera								🕀 English 🛩	🕹 admin
👌 Media	~	General OSD	Privacy Mask	ROI						
Video Image		lan			Image Adjustment			2		
Audio					Day/Night Switch			*		
Network Storage	,				Day/Night Parameters			>		
					Exposure			>		
Event	•				Backlight			*		
System 3	>				White Balance			3		
					image Enhancement			3		
					Display					
					Power Line Frequency	50Hz	1991 (
					Outdoor/Indoor Mode	Cuttoor	194 I			
					Corridor Mode	04				
					Image Rotation	01				
					Keep Correct Aspect Ratio	0#	(W)			
						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. 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>

Mile	sight Network	Camera	M								🕀 English 🗸	💄 admin 🛩
æ	👌 Media Video	•		050 Privac			- 100000000000					
\odot	Audio		Network Ca	age.		04/2022 18:58		Primary Stream	(v.)			
S	Network	,			-	\mathcal{A}_{*}	Regular					
đ	B Storage						Font Size	Medium	Y			
	Event	,					Font Color		•			
	System	,			1	- de	Background Color		•			
							Video Title					
							Show Video Title					
								Network Camera				
							Text Position	Top-Left				
							Zoom Status	55	(9)			
							Timestamp					
							Show Timestamp					
							Date Position	Top-Right	19 C			
							Date Format	DDAMWYYYY	94			
							E Copy to Other	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.

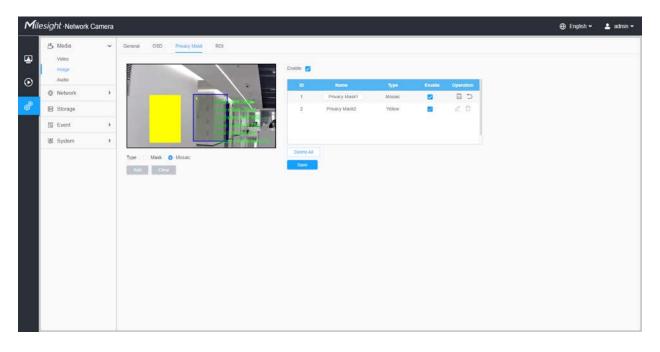


Table 21.	Descrip	tion of	the	buttons
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Parameters	Function Introduction
Enable	Check the check box to enable the Privacy Mask function.
Туре	Select the type to use for the privacy areas, there are two types available: Mask and Mosaic.
Add	Drew an privacy 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.

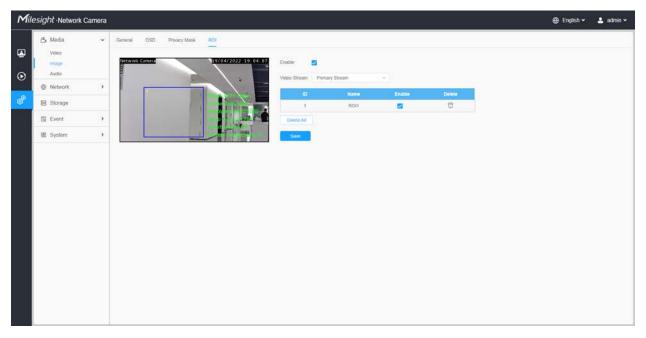


Table 22. Description of the buttons

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.

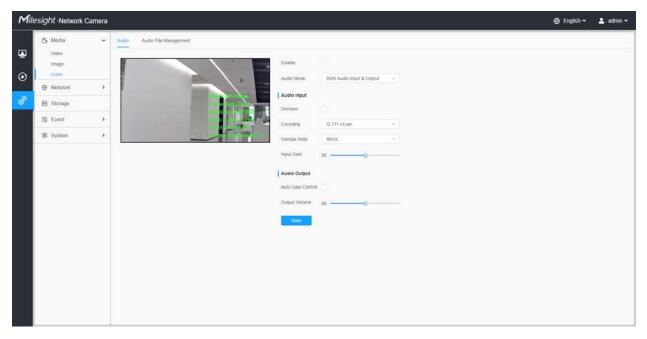


Table 23. Description of the buttons

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 bishere the alarm level 4.400
Audio Output	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.

and the second s	e <i>sight</i> ∙Network C	amera	5		🕀 English 🛩	💄 admin 🛩
_	👌 Media	÷	Audio Audio File Mana	per est		
•	Video Image		Audio File Storage Type	Flath		
•	Network		Audio File ①	Flash 50		
ø	B Storage		ID Audi	File Name Dolets		
	Event	•		No Data		
	E IoT	,	Add			
	@ System	.,				

Bote:

- 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

ilesight Network Ca	amera							⊕ English v	💄 admin 🕤
👌 Media	•	TCP/IP HTTP	RTSP UPnP DDNS	Email FTP					
Network Book Advanced	*	і іРч4 Туре	Static DHCP						
B Storage		IP Address	192 . 168 . 69 . 66	Test					
S Event	>	IPv4 Subnet Mask	255 . 255 . 255 . 0						
🕼 System	•		192 . 168 . 69 . 1 8 . 8 . 8 . 8						
		IPv6 IPv6 Address IPv6 Address IPv6 Prefix IPv6 Default Gateway MTU	Manual						
		мти	1500 Slave	1200-1500 Bytes					

Table 24.	Descri	ption of	the	buttons
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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.
10-1	Note: 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>

ilesight Network Camera				🕀 English 🛩 💄 a
් Meda ා	тсрир нттр	RTSP UPpP DDNS	Email FTP	
Network Network Advanced	Enable	2		
B Storage	Port	80		
도 Event >	HTTPS			
@ System →	Enable			
	Installed Centricate Attributes	CPUS.HIPHIPC Activity HIPHIPC Harded to Constant Harder (HIPHIPC Harder (HIPHIPC Harder (HIPHIPC Harder (HIPHIPC Harder (HIPHIPC) Harder (HIPH	Reset	

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.

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>

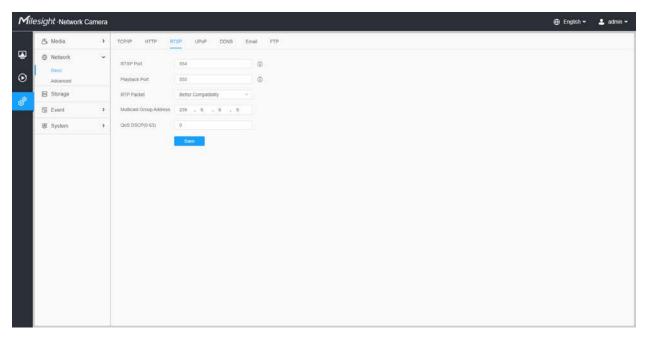


Table 27. Description of the buttons

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.

a > TCPAP ork = Enable need Port Ma	HTTP RTSP	UPOP DDNS	Email FTP	
Enable				
	spping			
199 Enable I	Port Mapping			
t > Name	UPnP			
am > Type	Auto		-	
Prote	ocol Name	External Port	Internal Port	Status
	HTTP	21202	80	Invalid
P	HTTPS	22202	443	trivated
2	RTSP	23202	554	mvalid
P	layback	25202	555	invalid

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	esight Network (Camera								1	🕀 English v	💄 admin 🛩
	🖧 Media)	TCP/IP HTTP	RTSP UPnP	DONS Email	FTP						
•	Network Besk Advanced	*	Enable Provider	ddns milesight.com	-							
đ	B Storage		External HTTP Port	80								
er	Event	3	External RTSP Port	554								
	S System	3		555	12AB 166							

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 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.

F 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.

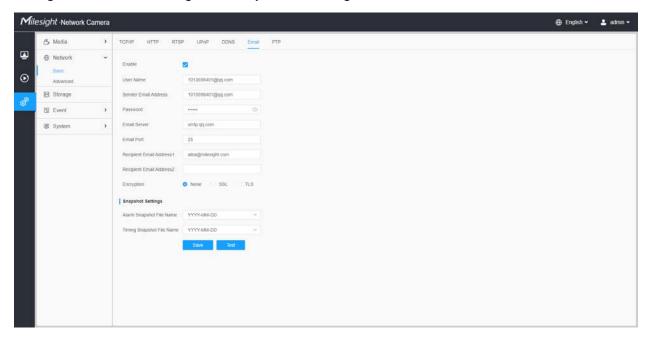


Table 31. Description of the buttons

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.

ilesight Network Can	iera	r.		
👌 Media	•	TCP/IP HTTP RTSI	P UPoP DONS	Email
Network Basic Advanced	*	FTP Server Settings	FTP	19
B Storage		Server Address	192.168.70.97	
S Event	>	Server Port	21	
🕼 System	•	User Name	aba	
		Password FTP over SSL/TLS(FTPS)		0
		Storage Path	Root Directory	
		Alarm Action File Name	Default(YYYY-MM-DD)	Ŷ
		Timing Snapshot File Name	YYYY-MM-DD	Ψ.
		Pre Second	Q s Sawe Test	

Table 32. Description of the buttons

Parar	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 (Camera								🕀 English 🛩	💄 admin 🛩
	📥 Media)	VLAN PPPoE	SNUP	802.1x	Bonjour	RTMP	SIP	More		
•	Network Basic Advanced	•	Enable VLAN ID(1~4094)								
đ	B Storage		VLAN IP	1 N.	3	<u>e</u>					
Q	Event	3	VLAN Netmask		14	+1)					
	€ loT	•	VLAN Galeway	÷.		+6					
	System	•	1	Sine							

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.

Mile	≘ <i>sight</i> ∙Network C	Camera	-							🕀 English 🗸	💄 admin 🛩
	🔥 Media	•	VLAN PPPoE	SNMP	802.1x	Bonjour	RTMP	SIP	More		
•	Network Basic Advanced	*	Enable Dynamic IP								
đ	B Storage		User Name								
	Event	>	Password								
	e lot	•	Confirm Password								
	@ System	•		Sine							

Rote:

- 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	sight Network C	Camera													€) English	adm	in 👻
	👌 Media	,	VLAN PPPoE	SNMP	802.1x	Bonjour	RTMP	SIP	More									
•	Network Basic Advanced	•	SNMP v1/v2 Enable SNMP V1															
e ^p	B Storage		Enable SNMP V2c															
101	Event	3	Write Community	poblic														
	🛛 loT	•	Read Community	privotei														
	🕼 System	,	Enable SNMP V3 Read Security Name															
			Level of Security Write Security Name	110 acith i	io pex /	M												
			Level of Security	no anti-	st pdy	ų												
			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

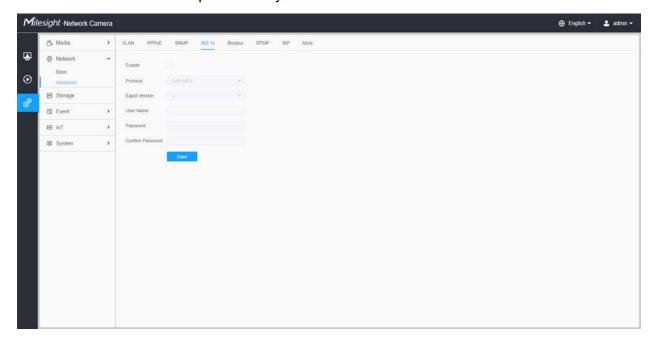
Parameters	Function Introduction
	Enable SNMP v3: Provide encryption and the HTTPS protocol must be enabled.
	Read Security Name: Input the name of Read Security Community.
SNMP v3	Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv).
	Write Security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

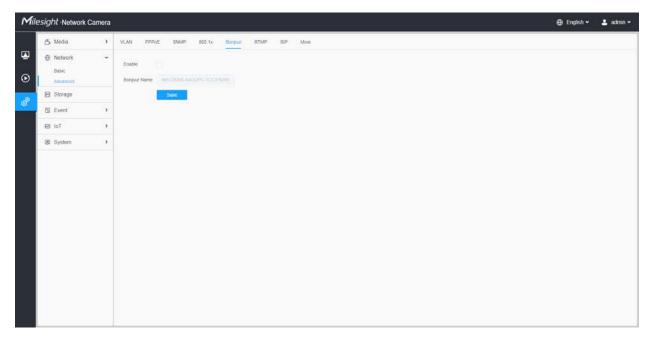
The IEEE 802.1X standard is supported by the network cameras, and when the feature is enabled, the camera data is secured and user authentication is needed when connecting the camera to the network protected by the IEEE 802.1X.



<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	sight Network C	Camera		🕀 English 🕶	💄 admin 🛩
	📇 Media	,	VLAN PPPOE SNMP 802.1x Bonjour R114P SiP More		
•	Network Basic Advanced	*	Enable Stream Type Princip Stream		
đ	B Storage		Server Address		
	Event	3	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.

Mile	esight Network (Camera		🕀 English 🛩	💄 admin 🗸
	🖧 Media	>	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
•	Network Basic Advances	÷	SIP Settings > Alarm Phone List >		
đ	B Storage		White List		
Ø	Event	>	Save		
	Ø 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]

sight Network C	Camera					🕀 English 🛩
💪 Media	•	VLAN PPPoE SNMP	802.1x Bonjour R	TMP SIP More		
Network Basic	Ť	SIP Settings			×.	
Advanced		Enable	Φ			
B Storage		Register Mode	Calle	Y		
Event	3	User ID	- 300			
Ə lot	•	User Name	report			
🕼 System	•	Password				
		Server Address				
		Server Port	3660			
		Connection Protocol		u II		
		Video Stream	Printing Station	91		
		Enable Audio in SIP Call				
		Max Call Duration	1000	s (0 means no limitation.)		
		Status	Unregistered			
		Alarm Phone List			3	
		White List			3	

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]

Mile	esight Network C	ra 🕀	English 🛩	💄 admin 🛩
	ය Media	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
•	Network Basic	SIP Settings 2		
\odot	Advanced	Alazzi Phone List.		
ď	B Storage	SIP Phone Phone Type Remark Name Duration Delete		
	S Event	1837659036 Phone Number 00.00-23.59 □		
	I System	Add Deerb 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.
	Delete the selected alarm phone.
Delete All	Delete all added alarm phone.

[White List]

Mile	esight Network (Camera					🕀 English 🛩	💄 admin 🛩
	占 Media	,	VLAN PPPoE SNMP 8	002.1x Bonjour RTMP	SIP More			
•	Network Basic	*	SIP Settings			3		
	Advanced		Alarm Phone List			3		
ď	B Storage		White List					
	E Event	>	Enable White List Number Filter					
	@ System	•	SIP Phone	Phone Type	Delete			
				No Data				
			Aas					

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.

Mile	sight Network C	amera		🕀 English 🛩	🕹 admin 🛩
	📇 Media)	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
•	Network Basic Advanced	*	Push Message Settings Enable		
e [®]	B Storage		Push Event Type Edit		
9	Event	>	ONV/F Setting		
	e lot	•	Enable 🛃		
	C System	,	Sav		

Table 37. 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 ✓ 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

Mile	esight Network C	amera		🕀 English 🛩	🛓 admin 🗸
•	Audio Media Video Image Audio	,	Storage Management Record Settings Bnapshot Settings Explorer I SD Card 20.440-59.440 Format		
	Network	>	NAS		
ď	B Storage		No Server Address Directory Mounting Type Total Free User Name Status Operation		
	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*
	Directory*
Nas	Mounting Type NFS 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.
	Pote:
	 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

Milesight Network Camera		🕀 English 🛩	💄 admin 🗸
🖧 Media 🔷	Storage Management Record Settings Snapshot Settings Explorer		
Basic Advanced	Storage Settings Enable Recycle Storage		
E Storage	Pre Second 0 seconds V		
E Event	Schedule Settings		
(€ System)	0 0		

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

Mile	esight Network (Camera		🕀 English 🛩	💄 admin 🛩
	📇 Media	•	Storage Management Record Settings Snapshot Settings Explorer		
٠	Network	>	Snapshot Settings		
\odot	B Storage		Enable Timing Snapshot 💆		
	S Event	•	Interval 1 N		
ø	🕼 System	•	Save to storage (Please mout storage divice)		
			Upload Via FTP		
			Upload Via Email		
			HTTP Post		
			Schedule Settings		
			F I 6 8 9 10 16 18 18 18 18 18		
			Sun Mon		
			Tue.		
			Wed		
			Thu Pri		
			5al.		
			Select A4 Clear A8		
			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 named "Snapshot" to place the snapshot.
Schedule Settings	HTTP Post: Upload the snapshots via HTTP Post. Support uploading the snapshots to specified HTTP URL. Edit record schedule as needed. Intuitive scheduling by drawing the time bar directly. Schedule Settings Sun. Mon. Tue. Wed. Thu. Fri. Sat. Select All Clear All
Schedule Settings	Copy To Image: Copy To Sun. Mon. Tue. Copy the schedule area to another date. Wed. Thu. Fri. Sat. Save Select All Select All Select all schedule.

Parameters	Function Introduction		
	Clear All	Clear all schedule.	
Save	Save the configuratior	n.	

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	ement Record Settings Snap	shot Settings Explorer			
Network	>	Main Type	Record V Sub Type	All Start Time	2022/03/25 00 00 00 End Time 3 2022/03/25	21 49 49	Search
E Storage		and some second		it is the second second to			
S Event	>	-	File Name 120220325192231	Start Time 2022-03-25 19:22:31	End Time 2022-03-25 19:27 35	Type Timing	55m 250.64M
🖲 System	,		120220325192735	2022-03-25 19:27:35	2022-03-25 19:32:40	Timing	251.61M
G of seaso			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	2022-00-25 19:52:58	Timing	250.89M
			120220325195258	2022-03-25 19:52:58	2022-03-25 19 58 02	Timing	250.6944
			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

Miles	sight Network Came	əra								🕀 English 🗸	🐣 admin 🗸
	📇 Media	,	Motion Detection	Audio Alarm	External Input	External Output	t Exception				
•	Network	,	0				Enable Detection				
\odot	E Storage		MARCH ST				Enable Motion Analysis				
	S Event	~					Basic Settings		*		
ø	Basic Event				and the second sec		Schedule Settings		>		
	© PTZ © LPR	,		a a la serie de la	- Video		Alarm Action		×.		
	@ System	,					Save				
	Gr System	0	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]

able Motion Analysis		
Basic Settings		÷
Mode	Normal Mode Advanced Mode	
Sensitivity	9O	
Onvif Motion ActiveCells Settings	Normal	
Schedule Settings		>
Alarm Action		>

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;

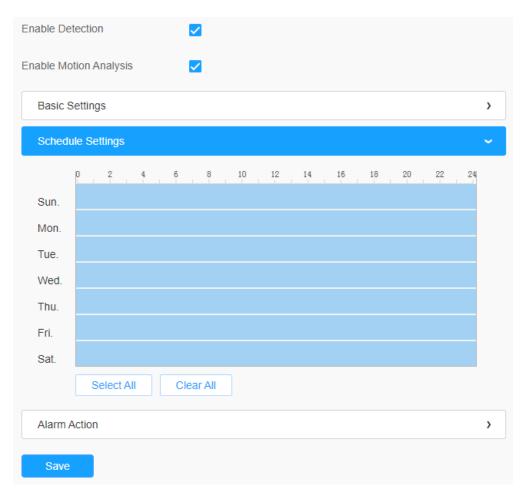


Table 43. Description of the buttons

Parameters	Function Introduction
Copy To × 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	>
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 44. 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.
	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 Netification supports Regis & Digget authentication
	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.

Mile	sight Network Cam	iera		🕀 English 🗸	💄 admin 🗸
	සී Media	>	Motion Detection Audio Atarm External Input External Output Exception		
•	Network	•	Enable Audio Alarm (Please enable the Audio Mitc.)		
\odot	E Storage		Best Settings		
	Event	~			
đ	Basic Event		Audio Sample Value 0 O		
۲	B LPR	>	Schedule Settings		
	@ System	,			
			Sove		

[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 85)</u> for the meanings of the items, here will not repeat again.

[Alarm Action]

Refer to the table <u>Table 4 (page 86)</u> for the meanings of the items, here will not repeat again.

External Input

Mile	sight Network Came	era		🕀 English 🗸	🛓 admin 🗸
	👌 Media	>	Motion Detection Audio Alarm External Input External Output Exception		
۲	Network	>	Enable External input		
۲	B Storage		Schedule Settings		
¢ ⁰	Event Basic Event		Alam Action		
	© PTZ		Sinc		
•	⊛ LPR	,			
	B System	>			

Refer to the table <u>Table 3 (page 85)</u> for the meanings of the items, here will not repeat again.

External Output

Miles	sight Network Camera		🕀 English 🗸	🛔 admin 🗸
	👌 Media	Motion Detection Audio Alaim External Input External Output Exception		
	Network	Normal Status Settings		
\odot	😫 Storage	External Output Open O Grounded		
đ	Base Event	Current Status Grounded		
	S PTZ	Manual External Output		
•	(iii) LPR	Manual Output Start		
	@ System	Ebsternal Output Action Time Manual Control		
		Sar		

[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

esight Netwo	ork Camera	6		🕀 English 🗸	💄 adm
👌 Media		Motion Detection Audio Alarm External Input External Output	Exception		
Networ	k	Alarm Type Network Disconnected V			
B Storag	e	Enable Alarm			
Event Basic E		V Alarm Action			
🔊 PTZ		Record			
(a) LPR) Snapshot	x		
@ System	0	External Output Play Audio (Please enable the Audo Spearer.)	3		
		White LED	3		

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 85)</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 🗸
	👌 Media	General Advanced List Management List Event Traffic Delection Evidence		
•	Network	Enable LPR		
\odot	😫 Storage	Country / Region		
	(5) Event	image Settings >		
đ		Contention Setting		
	Settings Smart Search	Pedent Munifikation (Senarge Control Senarge Control (Senarge Control		
		Councer A Councer Anti-A Schedule Settings		
		Add Clear		

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.
Effective Region (Only for PTZ series)	Normal: configure the LPR detection regions for the current area. Advanced: configure different LPR detection regions for different PTZ presets(Only support Preset 1~4 so far).

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

[Image Settings]

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

Enable LPR			
Country / Region	Europe	~	
Effective Region	• Normal O Advanced		
Image Settings			~
Enable LPR Image Mode	e 🔽 🛈		
Level	4	O	
Detection Settings			>
Detection Settings	gs		>
	<u>js</u>		

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.

Detection Settings		~
Detection Region (j)		
ID	Name	Operation
1	ROI_1	2 🗇
Delete All		
Detection Settings		
Detection Mode	O Plate Priority • Vel	hicle Priority (j)
Detection Trigger	Always	×
Repeat Plate Checktime	0 ms	✓ (0-60000)
License Plate Serial Format	Edit	
Attributes Identification	🗸 All	
	✓ Plate Color	Vehicle Type
		Detection Region
	✓ Direction	Country / Region
LPR Message Post Settings		>
Schedule Settings		>
Save		

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								
	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						
Au	1	ROI_1	2 1						
	2	ROI_2							
	Note: Only license p	lates larger than 150 pixe	ls can be recognized.						
Clear	Click the "Clear" button to	Click the "Clear" button to clear the area being drawn. Click the "Delete All" button to delete all the added areas.							
Delete All	Click the "Delete All" butto								

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.
Attributes Identification	 Check Plate Color, Vehicle Type, Vehicle Color, Detection Region, Direction, Country/Region(Only for LPR2 and LPR_EU), or All to enable Attributes Identification, it will display the corresponding information on the Smart Search interface. Vehicle Type: Car, SUV, Van, Bus, Forklift, Excavator, Tow truck, Truck, Fire engine, Ambulance, Police car, Motorbike, Bicycle, E-Bike and Other Vehicle Color: Black, White, Gray, Red, Yellow, Green and Blue Plate Color: Black, White, Red, Yellow, Green and Blue

Step5: Set LPR Message Post Settings.

Enable LPR		
Country / Region	Australia	
Image Settings		>
Detection Settings		>
LPR Message Post Setting	gs	~
Enable LPR Message Po	ost 🔽	
Post Type	O HTTP • 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.

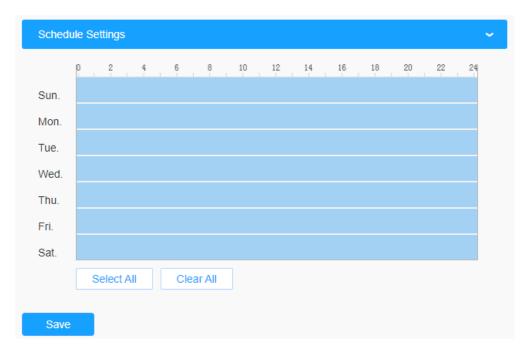


Table 53. Description of the buttons

Parameters	Function Introduction
Copy To × =	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.

sight Network C	amera	*		nglish 🖌 💄 admin 🛩
🖧 Media	•	General Advanced List Management List Even	el	
Network	>			
Storage				
Event	•	Shapano, rije Name.		
PTZ				
📾 LPR	*			
Settings Smart Search				
C System	- >>			
			Sant	
	 ☆ Media ↔ Network ⇔ Storage ⊕ Event ⇔ PTZ ⇔ LPR Settings Smat Search 	Media > Network > Storage E Event > PTZ Settings Simart Search	Modia General Advanced List Management List Event Image: Storage Snapshot OSD Snapshot File Name Image: Storage Image: Storage Image: Storage Image: Storage Image: Storage Image: Storage	Modia Image: Modia

[Snapshot OSD]

ile	sight ·Network C	amera	R.				
	ලී Media	•	General	Advanced	List Management	List Event	
ľ	Network	>			_		
ľ	B Storage		1.000	ihol OSD			
	Event		Font		Medium	17.5	
	₽TZ		Font	Color		•	
			Back	iground Color			
	📾 LPR	~	OSD	Position	Тор	190	
ľ	Settings Smart Search		050	Infomation	All		
	@ System				Plate	2	
F					Vehicle	Plate Type	Plate Color
					Vehicle Type	Vehicle Color	Direction
					Speed Other		
					Time	Position	Device ID
					Detection Regio	n 🛃 Device Name	🛃 Line Break Character
				ltem of	File Name	spaces	Sorting
				3	îmê	1.0	≣ ≣
					se Plate	.1 v	⇒ =
					le Type	1.2	3 8
					peed	1 -	88
				De	ection	1.9	= =

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	<image/>					

[Snapshot File Name]

Mile	e <i>sight</i> ·Network C	Camera								 🕀 English 🛩	💄 admin 🗸
	占 Media	,	General Advanced	List Management	List Event						
	Network	,	Snapshot OSD								
\odot	E Storage						,				
	Event	•	Snapsbot File Name Separator			ф.	*				
ø	PTZ		Item of File Name	All		U					
	LPR Settings Smart Search	×	and of the restore	Plate License Plate Vehicle	Plate Type Vehicle Color	Direction					
	C System	>		Vehicle Type Speed	venice Color	Direction					
				Other Time Detection Region	Position Device Name	Device ID					
			them -	of File Name		Sorting					
				Time		E E					
			Lic	ense Plale		≡r ≡r					
			Save								

Table 55. Description of the buttons

Parameters		Function	Introduction	
Separator	"-", "_" and Space The default separa	are available for Filator is "-".	e Name Separato	r format.
	You can customize	e the snapshot file r	name according to	items chosen.
	Item of File Name	All		Plate Color
	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 🗸 P	Plate Type	Plate Color
	Vehicle		
	Vehicle Type 🛛 🗸 V	ehicle Color	Direction
	✓ Speed		
	Other		
		Position	Device ID
	🗹 Detection Region 🗹 D	vevice Name	
ltem o	f File Name	s	orting
	Time	Ξ	J <u>⊒</u> 15
Lice	nse Plate	Ξ	J <u></u> ⊒ 15
Pla	ate Type	Ξ	J <u></u> ⊒ 15
:	Speed	Ξ	J <u></u> ⊒ 15
D	irection	Ξ	J <u>≕</u> 15
Detec	tion Region	Ξ	J <u>=</u> 15
Position:	Position	Ξ	J <u></u> ⊒ 15
Dev	ice Name	Ξ	J <u></u> ⊒ 15
Device ID:	Device ID	Ξ	J <u></u> ⊒ 15
Pla	te Color	Ξ	J <u>≕</u> 15
Veh	icle Type	Ξ	J <u>⊒</u> 13
Veh	icle Color	Ξ	J <u>=</u> 15

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:

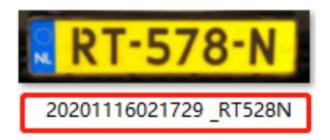
Full-snapshot Recognized successfully



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 287*</u>).

liles	<i>sight</i> ·Network C	amera												⊕ Er	glish 🛩	💄 admi
	🖧 Media	>	General	Advanced	List Management	List Event	Traffic Detection									
	Network	>	Plate Type	All	< Licens	e Plate										Search
	E Storage		1	License Plate		Plate Type	Sch	edule Rule	Valid Time		ID Card No.		Note		Oper	
	Event	>		MS2023		ichedule Mode		Rule 1	2022-07-19 - 2022		01012022		10000		/	2000-000 C
	📾 LPR	v		MS2022		White List		2	Always		20220101				1	8
ľ	Settings Smart Search			MS1111		White List			2022-07-19 - 2022	2-07-26	01202201				1	ū
	國 System	>														
												Total 3	30/page v	< 1	2	Go to 1
			Rules	Edit								Add	Upload	E	toot	Delete Lis

 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
Schedule Rules	Click the "Edit" button to customize a rule.
	Add × License Plate* DF53EU7 Type Schedule Mode Schedule Rule Rule 1
	Valid Time Always Note Save Cancel Final Support setting up to 4 Schedule Rules for Schedule Mode.

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

List Event

Mile	esight ·Network Ca	amera	-		🕀 English v	💄 admin 🗸
	📇 Media		General Advanced List Management List Event			
۲	Network	2	List Type Black List White List Visitor			
\odot	B Storage		Enable			
	🖾 Event	•	Schedule Settings	3		
đ	PTZ		Alam Action	3		
	Settings Smart Search	,	Sae			
	@ System					

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

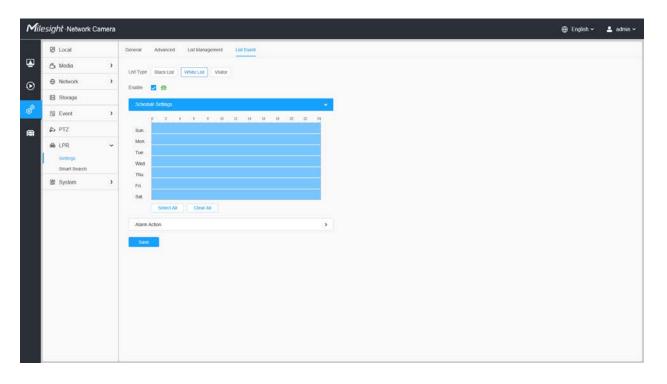
Step2: The corresponding alarm icon is triggered when the Black List/White List/Visitor vehicles passing by.

sight Network Camer		🕀 English 🛩	± a
🕲 Local	General Advanced List Management List Event		
🖧 Media 💦	List Type Black List White List Visitor		
Network			
Storage	Schredule Schings		
Event >			
S PTZ	Sun		
LPR Settings Smart Search	Mon Mon Tue Mon		
傻 System >	Pri.		
	Sat. Select Aa Alarn Action. Saw		

Black List:

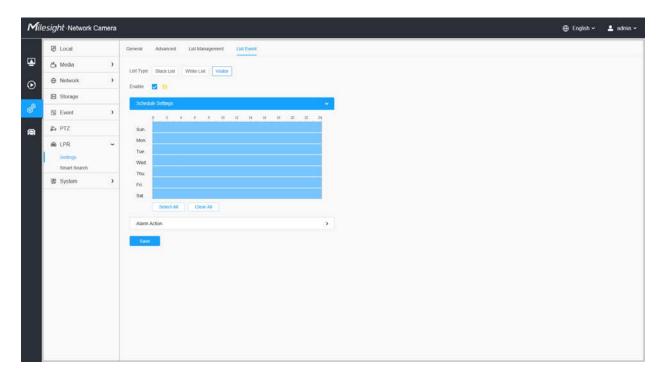
	letwork Camera										ŝ	🕀 English 🛩	≜ ad
Primary St	ream 👻 HTTP 🛩 Ba	alanced 🖌 LPR	~									E &	
SEE	- 14	-15			17		-		-	/	13	Contract of the	
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	Freita	-6 -610.1		1		Recognition DOK65			e Black List Dior Black Speet -			001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5	
No.	License Plate	Snepshot	Plate Type	Plate Color	Vehicle Type		9	Venicie C				002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7	
No. 74	12	-		Plate Color White	Vohicle Type Car	DOK6	9	Venicie C	color Black Speed -	Direction: Awa	ау	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6	
	License Plate	Snapshot	Piate Type	-		DOK6	9 Speed	Vehicle C Direction	color Black Speed -	Direction: Awa	Operation A	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	
14	License Plate	Snapshot	Plate Type Black List	White	Car	DOK69 Vehicle Color Black	9 Speed	Venicle C Direction Away	color Black Speed -	Direction: Awa Time 2022-04-21 23:25:42	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	
14 13	License Plate DCK68 BOJV11	Snapshot	Plate Type Black List Visitor	White White	Cat Cat	DOK6 Vehicle Color Black Black	9 Speed	Venice C Direction Away Away	color Black Speed -	Direction: Awa Time 2022-04-21 23:25:42 2022-04-21 23:25:39	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 008 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 13	
14 13 12	License Plate . D0K69 D0JV11 28K7218	Snepshot George States	Plate Type Black List Visitor Visitor	White White White	Car Car Car	DOK6 Vehicle Color Black Black Red	9 Speed	Venicie C Direction Away Away Away	color Black Speed -	Director: Awd Time 2022-04-21 23:25:42 2022-04-21 23:25:23 2022-04-21 23:25:21 2022-04-21 23:25:19	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 007 Preset 7 008 Preset 8 009 Preset 8 009 Preset 10 011 Preset 11 012 Preset 13 014 Preset 14	
14 13 12 11	License Plate DORSS BOAN11 2 BKZ20 MCBD2 DOC01 FE301	Sriapshot	Plate Type Black List Visitor Visitor Visitor Visitor Visitor	White White White White White White	Car Car Car Bus Car Car	DOK6 Vehicle Color Black Black Red Blace White Black	9 Speed	Vetacle C Direction Away Away Away Away	color Black Speed -	Direction: Awa Time 2022-04-21 23-25-42 2022-04-21 23-25-39 2022-04-21 23-25-33 2022-04-21 23-25-19 2022-04-21 23-25-19 2022-04-21 23-25-19	Ny Constantion A Q III Q III Q III Q III Q III Q III Q III Q III	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 006 Preset 7 007 Preset 7 009 Preset 8 009 Preset 8 009 Preset 10 011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15	
14 13 12 11	License Plate DOK65 BOJV11 28KZ28 MG882 DOC61	Snapshot Normal	Plate Type Black List Visitor Visitor Visitor Visitor Visitor	White White White White White	Car Car Car Bus Car	DOK69 Vehicle Color Black Black Red Blue White	9 Speed	Vehicle C Direction Away Away Away Away Away	color Black Speed -	Director: Awd Time 2022-04-21 23:25:42 2022-04-21 23:25:23 2022-04-21 23:25:21 2022-04-21 23:25:19	Ny Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	002 Presel 2 003 Presel 3 004 Presel 4 005 Presel 5 006 Presel 6 007 Presel 6 007 Presel 6 009 Presel 0 009 Presel 10 011 Presel 11 012 Presel 12 013 Presel 13 014 Presel 15 016 Presel 15 016 Presel 17	
14 13 12 11	License Plate DORSS BOAN11 2 BKZ20 MCBD2 DOC01 FE301	Sriapshot	Plate Type Black List Visitor Visitor Visitor Visitor Visitor	White White White White White White	Car Car Car Bus Car Car	DOK6 Vehicle Color Black Black Red Blace White Black	9 Speed	Vehicle C Direction Away Away Away Away Away Away Away	color Black Speed -	Direction: Awa Time 2022-04-21 23-25-42 2022-04-21 23-25-39 2022-04-21 23-25-33 2022-04-21 23-25-19 2022-04-21 23-25-19 2022-04-21 23-25-19	N Operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 006 Preset 7 007 Preset 7 009 Preset 8 009 Preset 8 009 Preset 10 011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 14 015 Preset 15	

White List:



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				11		Recognition DOH1			yp White List Color Red Speed -	r White Vehicle Type Direction: Awa		001 Preset 1 002 Preset 2 003 Preset 3	1 2 3 4 5
No	License Plate	Snepshot	Plate Type	Plate Color	Vehicle Type		(00)					001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 1	1 2 3 4 5 6 7
No. 15	License Plate DOHT	000755	Plate Type White List	Plate Color White	Vehicle Type Minbus	DOH1	(00)	Vehicle	Color Red Speed -	Direction: Awa	ау	001 Preset 002 Preset 003 Preset 004 Preset 005 Preset 006 Preset 006 Preset 008 Preset 008 Preset	1 2 3 4 5 5 6 7 8 9
		COLORED T				DOH1 Vehicle Color	(00)	Vehicle Direction	Color Red Speed Detection Region	Direction: Awa	operation	001 Preset 002 Preset 003 Preset 004 Preset 005 Preset 006 Preset 006 Preset 008 Preset 009 Preset 009 Preset	1 2 3 4 5 6 7 8 9 10
15	DOH1	CONST CHORE	White List Black List Visitor	White White White	Minibus Car Car	DOH1 Vehicle Color Red Black Black	(00)	Vehicle Direction Away	Color Red Speed Detection Region	Direction: Awa Time 2022-04-21 23 25:45 2022-04-21 23 25:45 2022-04-21 23 25:39	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q	001 Preset 002 Preset 003 Preset 004 Preset 006 Preset 006 Preset 007 Preset 008 Preset 009 Preset 009 Preset 010 Preset 010 Preset	1 2 3 4 5 5 6 6 7 8 9 10 11 12
15 14	DOH1 DGK8* BOJV1 28KZ	1020055 1122000 1102000 1102000 1102000	White List Black List Visitor Visitor	White White White White	Minibus Car Car Car	DOH1 Vehicle Color Red Black	(00)	Vehicle Direction Away Away	Color Red Speed Detection Region	Direction: Awa 2022-04-21-23-25-45 2022-04-21-23-25-42 2022-04-21-23-25-39 2022-04-21-23-25-23	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	001 Preset 002 Preset 003 Preset 005 Preset 006 Preset 006 Preset 007 Preset 008 Preset 008 Preset 009 Preset 010 Preset 010 Preset 011 Preset 012 Preset	1 2 3 4 5 6 7 7 8 9 9 10 11 11 12 13
15 14 13 12 11	DOH1 DGK6* BOJV1 28K2 MG88	1420382 142282 142282 142092 142097 142097	White List Eliack List Visitor Visitor Visitor	White White White White White	Minibus Car Car Car Dus	DOH1 Vehicle Color Red Black Black Red Blae	(00)	Vehicle Direction Away Away Away Away Away Away	Color Red Speed Detection Region	Director: Awa Time 2022-04-21 23-26-45 2022-04-21 23-26-42 2022-04-21 23-25-23 2022-04-21 23-25-21	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	001 Preset 002 Preset 003 Preset 004 Preset 005 Preset 006 Preset 006 Preset 008 Preset 009 Preset 009 Preset 010 Preset 010 Preset 011 Preset 013 Preset 013 Preset 014 Preset 015 Preset	1 2 3 4 5 5 6 7 8 9 9 10 11 11 12 13 14 15
15 14 13 12	DOH1 DCK81 BOJV1 28KZ MG88 DOCG	1000000 112200 110000 110000 110000 110000 110000 110000 110000	White List Black List Visitor Visitor Visitor Visitor	White White White White White White	Minibus Car Car Car Bus Car	DOH1 Vehicle Color Red Black Red Blae White	(00)	Vehicle Direction Away Away Away Away Away Away	Color Red Speed Detection Region	Director: Awa Time 2022-04-21 23 25 45 2022-04-21 23 25 42 2022-04-21 23 25 23 2022-04-21 23 25 21 2022-04-21 23 25 19	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	001 Preset 002 Preset 003 Preset 004 Preset 005 Preset 006 Preset 007 Preset 007 Preset 008 Preset 010 Preset 010 Preset 010 Preset 011 Preset 013 Preset 013 Preset 014 Preset 016 Preset	1 2 3 4 5 5 6 7 8 9 9 10 11 12 13 14 15 16
15 14 13 12 11	DOH1 DGK8: BOJV1 28K2 MG88 DOCG FE30		White List Black List Visitor Visitor Visitor Visitor Visitor	White White White White White White White	Minibus Car Car Car Bus Car Car Car	DOH1 Vehicle Color Red Black Red Blac White Black	(00)	Vehicle Direction Away Away Away Away Away Away Away	Color Red Speed Detection Region	Direction: Awa Time 2022:04:21:23:26:45 2022:04:21:23:26:42 2022:04:21:23:26:23 2022:04:21:23:26:23 2022:04:21:23:26:21 2022:04:21:23:26:21 2022:04:21:23:26:21 2022:04:21:23:26:21 2022:04:21:23:26:21 2022:04:21:23:26:17	ay Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	001 Preset 002 Preset 003 Preset 004 Preset 005 Preset 006 Preset 006 Preset 008 Preset 009 Preset 009 Preset 010 Preset 010 Preset 011 Preset 013 Preset 013 Preset 014 Preset 015 Preset	1 2 3 3 4 5 5 6 7 7 8 9 9 10 11 12 13 14 15 16 17
15 14 13 12 11	DOH1 DCK81 BOJV1 28KZ MG88 DOCG	1000000 112200 110000 110000 110000 110000 110000 110000 110000	White List Black List Visitor Visitor Visitor Visitor	White White White White White White	Minibus Car Car Car Bus Car	DOH1 Vehicle Color Red Black Red Blae White	(00)	Vehicle Direction Away Away Away Away Away Away	Color Red Speed Detection Region	Director: Awa Time 2022-04-21 23 25 45 2022-04-21 23 25 42 2022-04-21 23 25 23 2022-04-21 23 25 21 2022-04-21 23 25 19	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	001 Preset 002 Preset 003 Preset 004 Preset 005 Preset 006 Preset 006 Preset 007 Preset 009 Preset 010 Preset 010 Preset 010 Preset 011 Preset 013 Preset 013 Preset 015 Preset 016 Preset 016 Preset 016 Preset	1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 7 18 19

Visitor:



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No	License Plate	Snepshot	Piate Type	Plate Color	Vehicle Type			Vehicle 0				001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7	
No. 10	License Plate FE201	Snapshot	Piate Type Vistor	Plate Color White	Vehicle Type Car	FE30		Vehicle 0	Color: Black Speed	- Direction Aw	ay	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 006 Preset 5 007 Preset 7 008 Preset 8	
						FE30 Vehicle Color		Vehicle C	Color Black Speed Detection Region	- Direction Aw	operation	001 Preset 1 002 Preset 2 003 Preset 2 005 Preset 4 005 Preset 5 006 Preset 8 007 Preset 8 009 Preset 8 009 Preset 9 010 Preset 10	
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10 17	FE301 DOJO3E	Snapshot FEE R Tott 20	Visitor Visitor	White White	Car Car	FE30 Vehicle Color Black Gray		Venicie C Direction Away Away	Color Black Speed Detection Region	 Direction: Aw Time 2022-04-21 23:26:00 2022-04-21 23:26:57 	ay Operation Q Q Q Q Q	001 Preset 1 002 Preset 2 003 Preset 2 005 Preset 4 005 Preset 5 006 Preset 8 007 Preset 8 009 Preset 8 009 Preset 9 010 Preset 10	
10 17 16	FE301 DOJO3 WHVOZ	Snapshot TFIS R TOTT 2015	Visitor Visitor Visitor	White White White	Car Car Car	FE30 Vehicle Color Black Gray Gray		Vehicle C Direction Away Away Away	Color Black Speed Detection Region	 Direction: Aw Timie 2022-04-21 23 26 00 2022-04-21 23 25 67 2022-04-21 23 25 53 	ay Operation Q Q Q Q Q Q Q Q Q	001 Preset 1 002 Preset 2 003 Preset 2 004 Preset 3 005 Preset 5 006 Preset 5 006 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 12 013 Preset 12 014 Preset 14	
18 17 16 15	FE301 DOJOSE WHVQZ	Snepshot	Visitor Visitor Visitor White List	White White White White	Car Car Car Minibus	FE30 Vehicle Color Black Gray Gray Red		Vehicle C Direction Away Away Away Away	Color Black Speed Detection Region	 Detector: Aw Time 2022-04-21 23-26 00 2022-04-21 23-26 67 2022-04-21 23-25 53 2022-04-21 23-25 45 	ay Operation Q Q Q Q Q Q Q	001 Preset 1 002 Preset 2 003 Preset 2 004 Preset 4 005 Preset 5 005 Preset 6 007 Preset 6 009 Preset 6 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 12 013 Preset 13 014 Preset 13	
18 17 16 15 14	FE301 DOJO3 WHVOZ DOH10 DOK59	Snapshot 153.02 124700 124700 124700	Visitor Visitor Visitor White List Black List	White White White White White	Car Car Car Minibus Car	FE30 Vehicle Color Black Gray Gray Red Black		Vehicle C Direction Away Away Away Away Away Away	Color Black Speed Detection Region	 Director: Aw Time 2022-04-21 23.26.00 2022-04-21 23.25.67 2022-04-21 23.25.45 2022-04-21 23.25.42 	ay Operation QC QC QC QC QC QC	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 5 005 Preset 5 006 Preset 6 007 Preset 7 006 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 11 013 Preset 13 014 Preset 14 015 Preset 15 016 Preset 16	
10 17 16 15 14 13	FE301 DOJO3 WHVOZ DOH10 DOK50 BOJV11	Snepshot Lass 30 Lass	Visitor Visitor Visitor White List Black List Visitor	White White White White White White	Car Car Car Minibus Car Car	FE30 Vehicle Color Black Gray Red Black Black		Venice C Direction Away Away Away Away Away Away Away Away	Color Black Speed Detection Region	 Director: Aw Time 2022-04-21 23:26:00 2022-04-21 23:26:07 2022-04-21 23:25:33 2022-04-21 23:25:42 2022-04-21 23:25:39 	ay Operation QE QE QE QE QE	001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 8 007 Preset 8 009 Preset 8 009 Preset 8 009 Preset 8 009 Preset 9 010 Preset 10 011 Preset 11 012 Preset 12 013 Preset 12 014 Preset 14 015 Preset 15	

[Schedule Settings]

Step3: Schedule Settings.

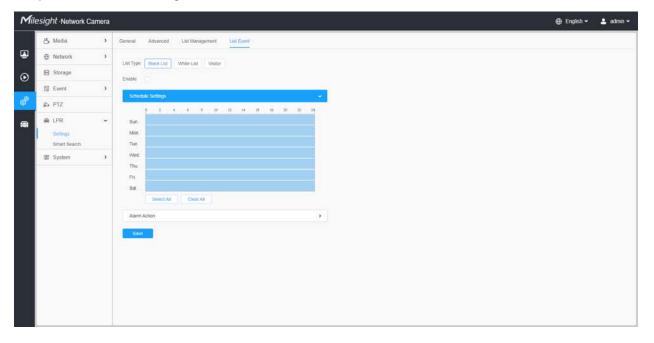


Table 57. Description of the buttons

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	esight Network Ca	amera		🕀 English 🛩	🛓 admin 🗸
	📇 Media	>	General Advanced List Management List Event		
۲	Network	,	List Type Black List Write List Votor		
\odot	E Storage		Entitle		
	S Event	•	Schedule Settings		
ø	🔊 PTZ		Alam Ados		
	Box LPR Settings Smart Search System		Record > Snapshot > External Output > Pisy Audio (These make the Audio Specers) > Alarm to SIP Proce (News cost the GP) > IntTP hotification > White LED >		

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.

esign	t Network Cam	era								🕀 English 🗸	🛓 ad
e	5 Media	,	General Advano	ed List Mana	gement Lis	t Event Attrib	utes Event Evide	Sence			
e	Network	>	-								
8	E Storage		Enable								
8	g Event	>	Evidence Carrier					~			
-	S PTZ		10	Name camera A	Enable	Status	Operation				
6	D LPR	~	2	camera B	5		20				
	Settings Smart Search		Aas								
R	System	,	Event Settings					<u>)</u>			

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*	······	
Address*	192.169.69.162	()

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

idence Came	ras			
ID	Name	Enable	Status	Operation
1	camera A		Ø	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

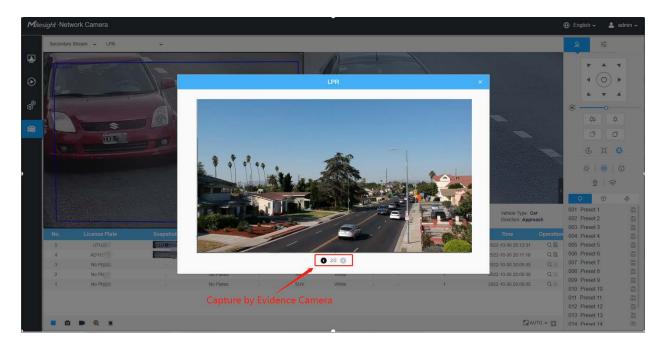
Parameters	Function Introduction
2	Edit the evidence camera.
Û	Delete the evidence camera.

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.

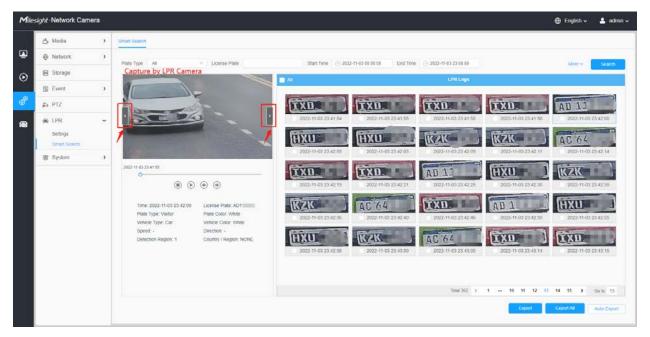
Event Settings	~
Capture Conditions Always	

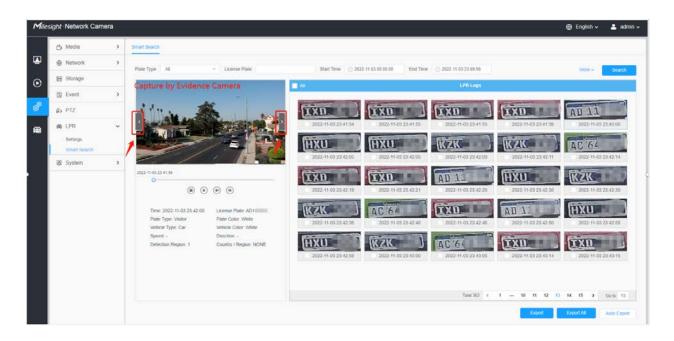
Step5: After completing the above settings, the evidence camera will work together to capture the scene when the LPR camera captures the license plate, which can be viewed on the Live View interface of LPR Mode.





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.

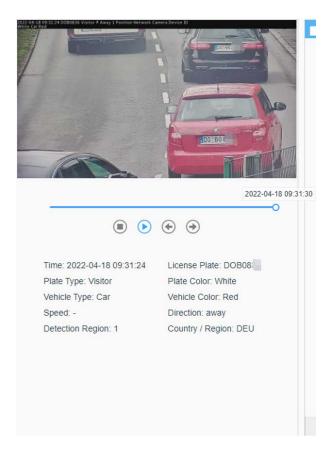
Mile	e <i>sight</i> ·Network C	Camera							🕀 English ~	💄 admin ~
	👌 Media		Smart Search							
•	Network	2	Ptate Type Visitor v License P	ate	Start Time () 2022	04-10 00 00:00 End Time	(5) 2022-04-18 23:59:59		More ~	Search
\odot	E Storage		Statement and and a second statement	-			LPR Logs		an ann an A	
	🖾 Event	>					-			
đ	₿5 PTZ				2 BKZ 2	DO TP 41	B DOM	DO MY	BDO KD 2	
	@ LPR	*		Lo	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	KDO KD3	DO: SO 21	PB°UP	-
	😨 System				2022-04-18 09:30:42	2022-04-18 05:30:47	2022-04-18 09:30:49	2022-04-18 09 31 19	2022-04-18 0	
				2022-04-10 09:31:30	DO®NN 2	DO BO8	DO:LM66	DO AE 16	DO*SR	and the
					2022-04-18 09:31:23	2022-04-18 09:31:24	2022-04-10 09:31:25	2022-04-18-09:32:12	2022-04-18 0	93213
			Time: 2022-04-18 09:31:24 License Plate							
			Ptate Type: Visitor Ptate Color: V Vehicle Type: Car Vehicle Color:	Red						
			Speed - Direction awa Detection Region: 1 Country / Reg							
								Total 115 < 1 2 3	4 5 5	Gom 5
								Errot	Export All	Auto Export
									ALT. DOMACTOR	

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.

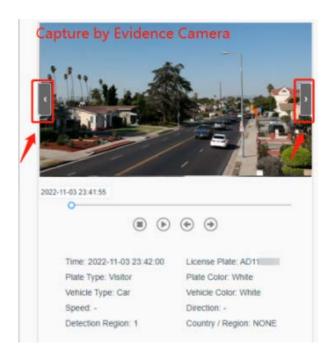


- It supports displaying 4,000 logs.
- Only when there is a SD Card or NAS has been set on the storage management, then the logs can be stored and showed on Smart Search page.

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.

	Expor	t	×
Export File	Plate List Vide Plate List(With pictures		
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	
Sa	ve 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.

Miles	ight	Network Came	era			⊕ English ∽	🚢 admin 🗸
	å	Media	•	System Maintenance	Auto Reboot		
۵	•	Network	>	System Upgrade ()			
\odot	8	Storage			45.8.0.2.LPR_EU-44		
	5	Event	>	Local Upgrade	C) Upprinte		
đ		PTZ			Reset after Upgrading		
	۲	LPR	>	Online Upgrade	Check		
	3	System	~	Maintenance			
		System Setting		Resel	Reset		
		Security			🛿 Keep the IP Configuration 🗾 Keep the User information		
		Mantenance		Export Diagnose Info	Export		
				Export Config File	Expert		
				Import Config File	import CD		
				Reboot			
				Reboot the Device	Rebox		

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 Image: 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

	ght ∙Network Ca	mera		🕀 English 🗸	💄 admin
6	5 Media	•	System Into DateATime		
6	Network	>	Current System Time		
8	3 Storage		Dalw 27/09/002		
15	Event	•	Time 15.33.04		
e	3 IoT	•	Set the System Time		
8	System	*	Time Zone (UTC+08:00) Chma(Beijing, Ho ~		
	System Setting Security		Daylight Saving Time Disabled 🛛		
	Logs		Synchronize Mode NTP server O Manual Synchronize with computer time		
	Maintenance		Time 32022-03-07 15 33 05		

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>

Miles	<i>ight</i> ·Network C	amera			
	💪 Media	•	User Online User Access U	st Security Service	Watermark About
1	Network	?	Manage Privilege		
	E Storage		Allow Anonymous Viewing		
	Event	•	Security Question		
P	10T	•	Security Question Edit		
1	System System	*	Account Management		
	Security		ID User Name	Privilege	Operation
	Logs Maintenance		1 admin	Administrator	20
			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	Function Introduction				
		ity questions for your camera. In case that you Forget Password" button on login page to reset the ity 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 b 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.

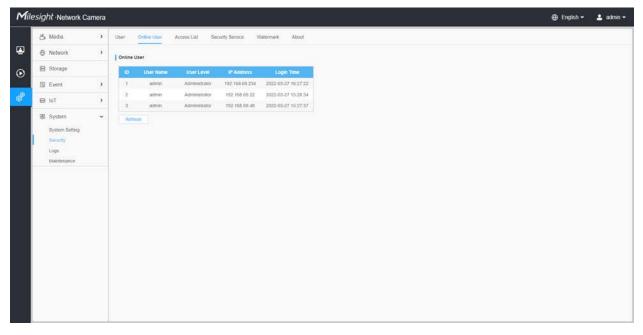


Table 63. Description of the buttons

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

Miles	ight Network C	Camera	r			
	📇 Media	>	User Online User	Access List	Security Service	Walermark About
9	Network	,	General Settings			
Ð	B Storage		Max. Number of Connection	10		9
	S Event	•	Access List			
et i	e loT	•	Enable Access List Filtering			
	System	*	Filter Type	Alon	K-Deny	
l.	System Setting Security		ID Rule		Address	Operation
ľ	Logs				No Data	
	Maintenance		Add			
			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.		
	Ø	Edit the selected IP on access list.		
	Ū	Delete the selected IP on access list.		
Save	Save the configuration.			

Security Service

Mile	sight Network Ca	amera	r					🕀 English 🛩	💄 admin 🛩
	📇 Media	>	User Online User	Access List	Security Service	Walermark	About		
•	Network	,	SSH Settings						
\odot	B Storage		Enable 🔽						
	Event	•	SSH Port 6022						
ø	₽ 101	•	Save -						
	System Setting System Setting Socially Cogs 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.

<u>Watermark</u>

filesight Network Ca	amera		🕀 English 🛩	💄 admin 🕯
📇 Media	,	User Online User Access List Security Service Watermark About		
Network	,	Watermark Settings		
B Storage		Enable		
S Event	•	Watermark String III* CAVERUS		
E 10T	•	Save		
GP System System Setting Sourty 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>

Miles	sigi	ht •Network Ca	amera							🕀 English 🛩	💄 admin 🛩
	6	Media	>	User	Online User	Access List	Security Service	Watermark	About		
۲	۲	Network	?	Op	en Source Software	Licenses					
\odot	8	Storage			View Lidenses						
	G	Event	•								
đ	8	IoT	•								
		System Setting Security Logs Mantenance	~								

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	>	Main Type A8 Types	 Sub Type All Types 	- Start Time 🗇 2022-	13.27.00.05.05 End Time	2022-03-27 23 59 59		Sea
E Storage			and the second second second	and services in a service of	teoserico (
S Event		Time	Main Type	Sub Type	Param	User	.	Detail
Cit Exert	180	2022-03-27 16:27:22	Operation	RTSP Session Start			192.168.69.234	RTSP
e loī	>	2022-03-27 16:27:22	Operation	RTSP Session Start	23		192 168 69 234	RTSP
System	~	2022-63-27 16:27:22	Operation	Video Param Set Remotely	1		192.158.69.234	Main(bit rate change.)
		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	15	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	10	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	5	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	15		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	18	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	82		192.168.69.48	RTSP
					Ţ	otal 1122 30/paige - 1	1 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

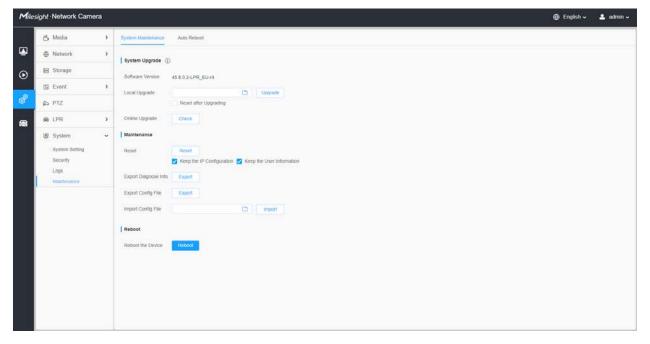


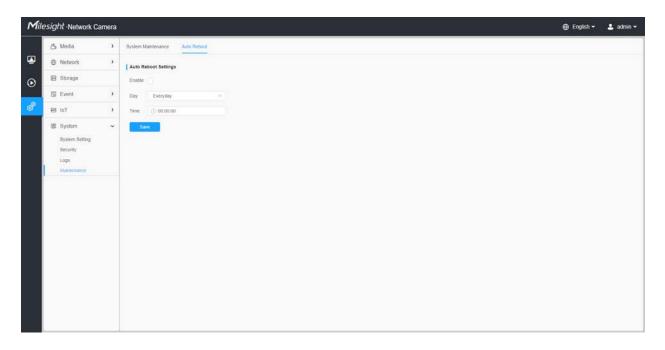
Table 67. Description of the buttons

T

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. 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 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 Cancel
	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

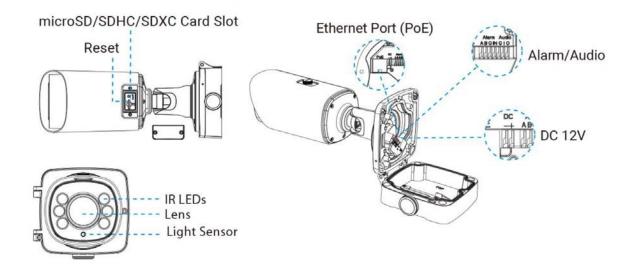
Product	Name
	Al Road Traffic Pro Bullet Plus Camera
	Al Road Traffic Radar Pro Bullet Plus Camera
	Al Road Traffic PTZ Bullet Camera
Marine Contraction	AI Road Traffic PTZ Bullet Plus Camera

Table 68.

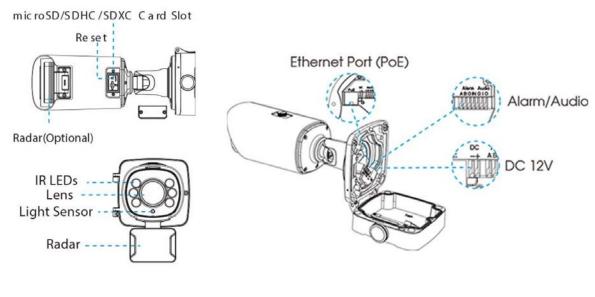
Product	Name
Marger Marger	AI Road Traffic Speed Dome Camera
	AI Road Traffic Supplement Light Pro Bullet Plus Camera

3.1.3 Hardware Overview

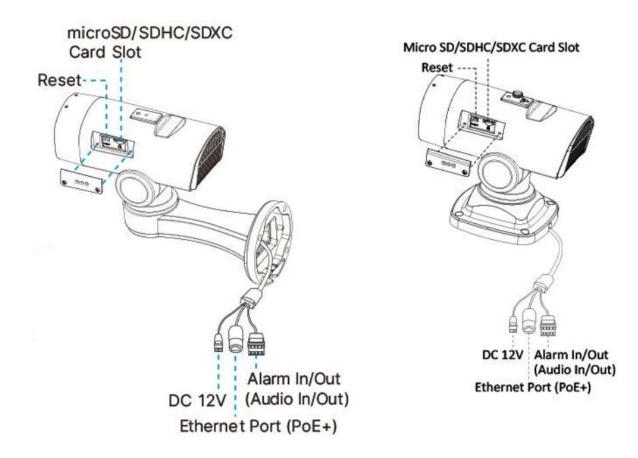
• Al Road Traffic Pro Bullet Plus Camera



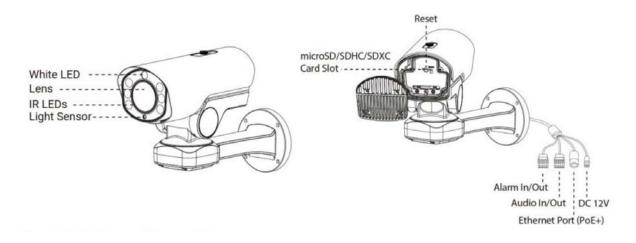
• Al Road Traffic Radar Pro Bullet Plus Camera



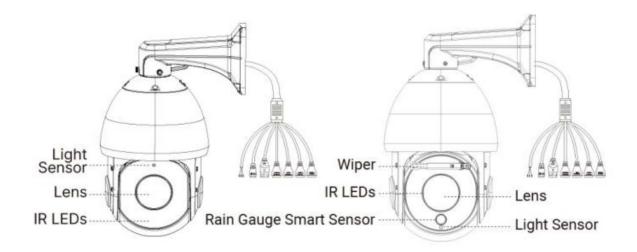
• AI Road Traffic PTZ Bullet Camera



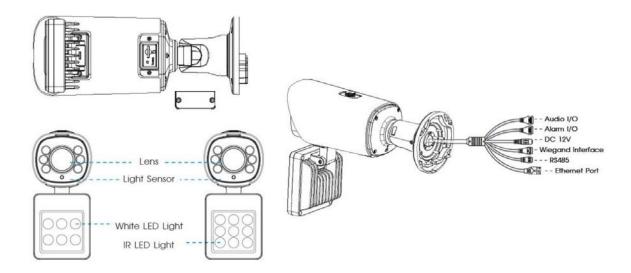
Al Road Traffic PTZ Bullet Plus Camera



• AI Road Traffic Speed Dome Camera



• Al Road Traffic Supplement Light Pro Bullet Plus Camera



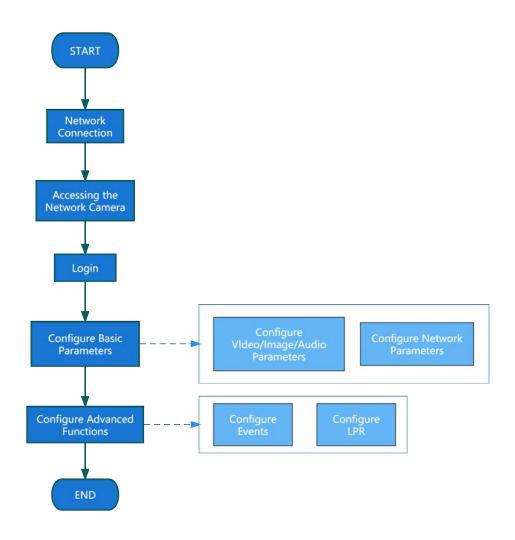
3.1.4 Related Documents

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.

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 11)
Accessing the Network Camera	Accessing from IP address, web browser and Milesight back-end software are available.	Assigning an IP Address (page 12)
Configure Basic Parameters	After login the camera, you can adjust the video/image/audio/network parameters as needed.	<u>Video (page 33)</u> Image (page 36)
Configure Advanced Functions	Configure LPR-related settings and other advanced functions.	<u>General (page 90)</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.

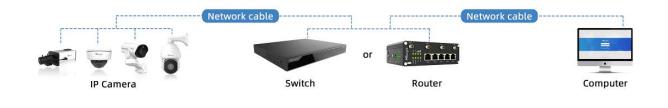
Connect the Camera to the PC Directly

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;

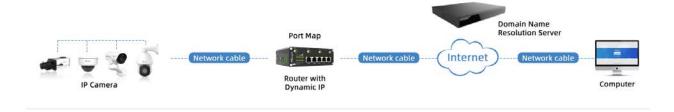
Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;

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;

7	No.	Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
1	9	Network Camera	Active	10:03:16:27:68:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373-PB	2022-03-11 20	41.7.0.79	0
	10	Network Camera	Active	1C:C3:16:27:08:94	192.168.69.60		255.255.255.0	192.168.69.1	MS-C2967-X23R			0
	10	Network Camera	Active	10:03:16:24:07:33	192.168.69.60	80 80	255.255.240.0	192.168.69.1	MS-C2967-X238 MS-C2963-LPB	2022-03-15 14:		0
	12	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 MS-C8266-X4G	2022-03-03 13:		0
-	12	Network Camera	Active	1C:C3:16:24:98:26	192.168.69.96	80	255.255.240.0	192.168.69.1	MS-C2964-FPB	2022-03-15 11:	0.52555666666	0
-	14	Network Camera		1C:C3:16:24:09:D2		80	255.255.255.0	192.168.69.1	MS-C2964-FPB MS-C5375-EPB	2022-01-09 17		0
			Active		192.168.69.97							0
	15	Network Camera		1C:C3:16:2A:06:91	192.168.69.98	80	255.255.255.0	192.168.69.1	M5-C5367-X23PC			0
	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			
	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:		0
	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
1/57	/	Device Names (Netw						255.255.255.0	Gateway 19		ENS 8 .8 .8	

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

Select single camera:

No. Device Name Status MAC IP Port Netmask Gateway Model Run up Time Version Webpage 18 Network Camera Active ICC3:16:28:5F:D2 192.168.69:128 60 255.255.05 192.168.69:1 MS-C2166-FILIC 2022-03:111 10 457.079-LP. 0 19 Network Camera Active ICC3:16:28:54:60:0 192.168.69:1 MS-C2166-FILIC 2022-03:114 457.0.79-LP. 0 20 Network Camera Active ICC3:16:28:06:40:1 90 255.255.255.0 192.168.69:1 MS-C2160-FILIC 2022-03:1119 437.0.79-LP. 0 21 Network Camera Active ICC3:16:24:06:41 192.168.69:1 MS-C2161-119 437.0.79-LP. 0 22 Network Camera Active ICC3:16:24:06:20:1 192.168.69:1 MS-C2961-V214.22 MA:1.09	18 Network Camera Active 1CC2162055FD2 192168.69.12 60 255.255.55 192168.69.1 M5-C8166-FILEC 202-03-11 10. 457.0.79-LP. 0 19 Network Camera Active 1CC2162055FD2 192.168.69.11 M5-C8166-FILEC 202-03-11 10. 457.0.79-LP. 0 20 Network Camera Active 1CC216220653 192.168.69.13 80 255.255.255.0 192.168.69.1 M5-C261-02LB 202-03-11 10. 457.0.79-LP. 0 21 Network Camera Active 1CC316276043 192.168.69.13 80 255.255.255.0 192.168.69.1 M5-C5351-HEB 202-02-10.10 41.74.478-a 0 22 Network Camera Active 1CC3162470.3C 192.168.69.13 192.168.69.1 M5-C9511-HEB 202-02-20.20 43.7.0.79-12 0 23 Network Camera Active 1CC31629.815.C 192.168.69.20 80 255.255.55.0 192.168.69.1 M5-C9664.48PC 202-02-20.41.8 43.7.0.79-12 0 24 Network Camera Active 1CC31629.75.8D 192.168.69.1 M5-C3665.48	ř	N IP	C Tools		Network							A Password Q Search h	_
19 Network Camera Active 1CC3162/86469 192188.89.134 80 255.255.25 192188.89.1 MS-C2907.V238 202-03-1614.8 45.80.1.42 0 20 Network Camera Active 1CC3162/208.53 192186.89.13 80 255.255.25 192186.89.1 MS-C2907.V238 202-03-1614.8 45.80.1.42 0 21 Network Camera Active 1CC3162/208.53 192186.89.13 80 255.255.25 192186.89.1 MS-C2961-0ELB 202-02-10.9 41.7.44.78-a 0 22 Network Camera Active 1CC3162/4703C 192186.89.13 80 255.255.25 192186.89.1 MS-C2961-0ELB 202-02-20.20 41.7.44.78-a 0 23 Network Camera Active 1CC3162/4703C 192186.89.203 80 255.255.25 192186.89.1 MS-C2966-X4RPC 2022-02-20.41.8 437.0.79-172 0 24 Network Camera Active 1CC3162/975.80 192186.89.20 192186.89.1 MS-C3865-PB 2022-03-07 14 437.0.89-1 0 24 Network Camera Active 1CC3162/975.80 192186.89.21<	19 Network Camera Active 1CC3162864C9 192188.89.13 60 255.255.50 192188.89.1 MS-C2907.V238 202-03-1614.8 458.0.1.a2 0 20 Network Camera Active 1CC316220633 192168.69.13 60 255.255.55 192168.69.1 MS-C2961-QELPS 202-03-1614.8 458.0.1.a2 0 21 Network Camera Active 1CC3162276043 192168.69.13 60 255.255.55 192168.69.1 MS-C2961-QELPS 202-02-10.9 417.44.78-a 0 22 Network Camera Active 1CC3162470.3C 192168.69.13 60 255.255.55 192168.69.1 MS-C2961-VRX8 202-02-21.9 417.44.78-a 0 23 Network Camera Active 1CC31629.9115 192168.69.1 92168.69.1 MS-C2966-VARPC 202-02-21.41.8 437.0.79-172 0 24 Network Camera Active 1CC31629.51.5C 192168.69.20 80 255.255.55 192168.69.1 MS-C3865-VRAPC 202-03-07.14 437.0.89-5 0 25 Network Camera Active 1CC31629.55.80 192.168.69.1	3	No.	Device Name	Status	MAC	1b	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpag
20 Network Camera Active 1CC3:162208:53 192.168.69.13 60 255.255.55 192.168.69.1 MS-C2961-QELPB 202-03-11 19 43.70.79-LP 0 21 Network Camera Active 1CC3:162247034 192.168.69.13 80 255.255.55 192.168.69.1 MS-C2961-QELPB 202-02-10 98 43.70.79-LP 0 22 Network Camera Active 1CC3:16247034 192.168.69.13 80 255.255.55 192.168.69.1 MS-C5961-PEB 2022-02-20 98 43.70.79-r3-r2 0 23 Network Camera Active 1CC3:162851:6C 192.168.69.208 80 255.255.55 192.168.69.1 MS-C2966-V4PB 2022-02-20 41 88 43.70.79-r12 0 24 Network Camera Active 1CC3:162851:6C 192.168.69.208 80 255.255.55 192.168.69.1 MS-C2966-V4PB 2022-03-07 14 43.70.89-r12 0 25 Network Camera Active 1CC3:162:955.80 192.168.69.21 192.168.69.1 MS-C3865-PB 2022-03-07 14 43.70.79-r12 0 26 Network Camera Active 1CC3:16:11:58.AD	20 Network Camera Active 1CC316220853 192168.69.135 60 255.255.55.0 192168.69.1 MS-C2961-QELP8 2020-1119 43.70.79-LP 0 21 Network Camera Active 1CC3162276043 192168.69.137 80 255.255.55.0 192168.69.1 LS2914-2YNX36 2022-02-109 41.744.78-a 0 22 Network Camera Active 1CC316247603C 192168.69.138 60 255.255.55.0 192168.69.1 MS-C2904-291.09 43.70.79-r3-t2 0 23 Network Camera Active 1CC316286314C 192168.69.208 80 255.255.55.0 192168.69.1 MS-C9074-98 2022-02-24.18 43.70.79-r12 0 24 Network Camera Active 1CC31628514C 192.168.69.208 80 255.255.55.0 192.168.69.1 MS-C2866-X4RPC 2022-03-07.14 43.70.89-b 0 25 Network Camera Active 1CC3162958631 192.168.69.218 80 255.255.55.0 192.168.69.1 MS-C3865-P8 2022-03-07.14 43.70.89-b 0 26 Network Camera Active 1CC3161198.49.1 <td>-</td> <td>18</td> <td>Network Camera</td> <td>Active</td> <td>1C:C3:16:28:5F:D2</td> <td>192.168.69.128</td> <td>80</td> <td>255.255.255.0</td> <td>192.168.69.1</td> <td>MS-C8166-FILPC</td> <td>2022-03-11 10:</td> <td>45.7.0.79-LP</td> <td>0</td>	-	18	Network Camera	Active	1C:C3:16:28:5F: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
21 Network Camera Active 1C.C3.16.27.60.43 192.168.69.13 192.168.69.1 1S2914-2/NX36 202-02-10.9tm, 41.7.44.78-a., Image: Comparison of the comparison o	21 Network Camera Active 1C.C3.16.27/60/43 192.168.69.137 80 255.255.240.0 192.168.69.1 1S2914-2/NX36 202-02-10 9km. 41.7.44.78-a Image: Comparison of the state of the st		19	Network Camera	Active	10:03:16:28:04:09	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
22 Network Camera Active 1CC31624703C 192168.69.13 80 255.255.50 192168.69.1 MS-C9351-HEP8 2022-02-22 09 43.70.79-r3-r2 0 23 Network Camera Active 1CC31624703C 192.168.69.13 80 255.255.50 192.168.69.1 MS-C9574-PB 2022-02-24 18 43.70.79-r12 0 24 Network Camera Active 1CC3162875.80 192.168.69.20 80 255.255.50 192.168.69.1 MS-C9674-PB 2022-02-24 18 43.70.79-r12 0 25 Network Camera Active 1CC3162975.80 192.168.69.20 80 255.255.50 192.168.69.1 MS-C3665-PB 2022-03-07 14 43.70.79-r12 0 26 Network Camera Active 1CC316129268631 192.168.69.21 80 255.255.255.0 192.168.69.1 MS-C3865-PB 2022-03-05 10 43.70.79-r12 0 27 Network Camera Active 1CC3161158.40 192.168.69.21 80 255.255.255.0 192.168.69.1 NC9674-PA 2022-03-15 14 32.81.1-a2 0 23 Droice Nommel Network Camera Active <td>22 Network Camera Active 1CC3162470.3C 192168.69.13 60 255.255.55.0 192168.69.1 MS-C9351-HEP8 2022-02-22 09 43.70.79-r3-r2 0 23 Network Camera Active 1CC3162470.3C 192168.69.13 80 255.255.255.0 192168.69.1 MS-C9674-P8 2022-02-24 18 43.70.79-r12 0 24 Network Camera Active 1CC31629.515.C 192168.69.204 80 255.255.255.0 192168.69.1 MS-C9674-P8 2022-02-24 18 43.70.79-r12 0 25 Network Camera Active 1CC31629.55.00 192168.69.20 80 255.255.255.0 192168.69.1 MS-C3865-P6 2022-03-07 14 43.70.89-b 0 26 Network Camera Active 1CC31629.56.00 192168.69.21 90 255.255.255.0 192168.69.1 MS-C3865-P6 2022-03-05 19 43.70.79-r12 0 27 Network Camera Active 1CC3161158.40 192168.69.211 80 255.255.255.0 192168.69.1 NC9674-PA 2022-03-15 14 22.81.1-a2 0 297 Network Camera Active <</td> <td></td> <td>20</td> <td>Network Camera</td> <td>Active</td> <td>10:03:16:22:08:53</td> <td>192.168.69.135</td> <td>80</td> <td>255.255.255.0</td> <td>192.168.69.1</td> <td>MS-C2961-QELPB</td> <td>2022-03-11 19:</td> <td>43.7.0.79-LP</td> <td>0</td>	22 Network Camera Active 1CC3162470.3C 192168.69.13 60 255.255.55.0 192168.69.1 MS-C9351-HEP8 2022-02-22 09 43.70.79-r3-r2 0 23 Network Camera Active 1CC3162470.3C 192168.69.13 80 255.255.255.0 192168.69.1 MS-C9674-P8 2022-02-24 18 43.70.79-r12 0 24 Network Camera Active 1CC31629.515.C 192168.69.204 80 255.255.255.0 192168.69.1 MS-C9674-P8 2022-02-24 18 43.70.79-r12 0 25 Network Camera Active 1CC31629.55.00 192168.69.20 80 255.255.255.0 192168.69.1 MS-C3865-P6 2022-03-07 14 43.70.89-b 0 26 Network Camera Active 1CC31629.56.00 192168.69.21 90 255.255.255.0 192168.69.1 MS-C3865-P6 2022-03-05 19 43.70.79-r12 0 27 Network Camera Active 1CC3161158.40 192168.69.211 80 255.255.255.0 192168.69.1 NC9674-PA 2022-03-15 14 22.81.1-a2 0 297 Network Camera Active <		20	Network Camera	Active	10:03:16:22:08:53	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
23 Network Camera Active 1C.C3.16.90.81.9E 19.168.69.203 80 255.255.50 192.168.69.1 MS-C9674-9B 2022-02-24 18 43.70.79-12 24 Network Camera Active 1C.C3.16.29.51.5C 192.168.69.204 80 255.255.55.0 192.168.69.1 MS-C9674-9B 2022-02-24 18 43.70.79-12 Image: Comparison of the co	23 Network Camera Active 1C.C3.16.90.81.9E 19.168.69.203 80 255.255.50 192.168.69.1 MS-C9674-9B 2022-02-24 18 43.70.79-12 24 Network Camera Active 1C.C3.16.29.51.5C 192.168.69.204 80 255.255.55.0 192.168.69.1 MS-C9674-9B 2022-02-24 18 43.70.79-12 Image: Comparison of the co		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
24 Network Camera Active 1CC3:16:28:51:6C 192:188.69:204 80 255:255:50 192:188.69:1 MS-C2866-X4RPC 2022:03:15:10 45.8.01.a2 0 25 Network Camera Active 1CC3:16:29:55:80 192:168.69:1 MS-C3865-PB 2022:03:07:14 43:70.09-12 0 26 Network Camera Active 1CC3:16:11:58:AD 192:168.69:211 80 255:255:50 192:168.69:1 MS-C3865-PB 2022:03:06:10 43:70.079-122 0 27 Network Camera Active 1CC3:16:11:58:AD 192:168.69:211 80 255:255:25:0 192:168.69:1 NS:C5361-HEPB 2022:03:06:10 43:70.079-122 0 27 Network Camera Active 1CC3:16:11:58:AD 192:168.69:211 80 255:255:255:0 192:168.69:1 NS:C636:44:PB 2022:03:05:15:44 32:8.11-82 0 2/35 Brylice Nitime: Network Camera Active 10:10:10:20:10:16:10:10:10:10:10:10:10:10:10:10:10:10:10:	24 Network Camera Active 1CC31628531cC 192188.69.204 80 255.255.50 192188.69.1 MS-C2866-X4RPC 2022-03-07 14 45.8.01.a2 25 Network Camera Active 1CC3162957580 192188.69.205 80 255.255.50 192188.69.1 MS-C2866-X4RPC 2022-03-07 14 43.70.09-12 Image: Comparison of the comparison	i.	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
25 Network Camera Active ICC21629758D 192188.69.205 80 255.255.50 192188.69.1 MS-C5365-PB 2022-03-07 14 43.70.09-12 Image: Comparison of the	25 Network Camera Active 1C:C3:16:29:75:80 192:168.69:10 M5-C5365-PB 2022-03-07 14 43:70.09-12 Image: Circ3:16:29:86:31 192:168.69:208 80 255:255:55 192:168.69:1 M5-C5365-PB 2022-03-07 14 43:70.079-12 Image: Circ3:16:29:86:51 192:168.69:1 M5-C5361-HEPB 2022-03-06 10 43:70.079-12 Image: Circ3:16:11:58:AD 192:168.69:211 80 255:255:255:0 192:168.69:1 Nc5c747-PA 2022-03-15 14 32:8:11-a2 Image: Circ3:16:11:58:AD 192:168.69:211 80 255:255:255:0 192:168.69:1 Nc5c747-PA 2022-03-15 14 32:8:11-a2 Image: Circ3:16:11:58:AD 192:168.69:211 80 255:255:255:0 192:168.69:1 Nc5c747-PA 2022-03-15 14 32:8:11-a2 Image: Circ3:16:11:58:AD 192:168.69:211 80 255:255:255:0 192:168:69:1 Nc5c747-PA 2022:03-15 14 32:8:11-a2 Image: Circ3:16:11:58:AD 192:168:69:21 Nc5c747-PA 202:2:03-15 14 32:8:11-a2 Image: Circ3:16:11:58:AD 192:168:69:21 Nc5c747-PA 202:2:03-15 14 32:8:11-a2 Image: Circ3:16:11:58:AD 192:168:69:21	1	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:	43.7.0.79-12	0
26 Network Camera Active 1GC3:16:29:86:51 19:168.69:209 80 255:255:55 19:168.69:1 MS::C5361:HEP8 2022:03:06:10: 43:70:79:-12 Image: Comparison of the compariso	26 Network Camera Active 1GC3:16:29:86:51 19:168.69:209 80 255:255:55 19:168.69:1 MS::C5361:HEP8 2022:03:06:10: 43:70:79:-12 Image: Comparison of the compariso	1	24	Network Camera	Active	1C:C3:16:28:51: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
27 Network Camera Active 10:10:11:58:AD 192.168.69.211 80 255.255.255.0 192.168.69.1 N:05674-PA 2022-03-15 14: 32.8.1.1-a2 Image: Comparison of the compari	27 Network Camera Active 10:10:11:58:AD 192.168.69.211 80 255.255.255.0 192.168.69.1 N:05674-PA 2022-03-15 14: 32.8.1.1-a2 Image: Comparison of the compari		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-Ь	0
/35 Device Name: Network Camero Dr 192.168.69.204 Port: 60 Netmosic (255.255.255.0) Spriewny: 192.168.69.1 DNss (8.8.8.8) () Activate 🛓 Export Device List 🗶 Modify	/35 Device Name: Network Camero Dr 192.168.69.204 Port: 60 Netmosic (255.255.255.0) Spriewny: 192.168.69.1 DNss (8.8.8.8) () Activate 🛓 Export Device List 🗶 Modify		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
🕐 Artivate 🔳 Export Device List 💥 Modify	🕐 Activate 🔳 Export Device List 💥 Modify		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
					vork Cam	976) IP: (192.168.6	9.204 Port	(80	Netmask (255.255.255.0		and the second se	C. C. M. C.	

Select multiple cameras:

5		°C Tools		@							A Par	sword	0
1											27 Contemporation	rch here	
	No.	Device Name 🔻	Status	MAC	Ib	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage	
e.	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	
r	10	Network Camera	Active	1C:C3:16:27:68:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373	2022-03-11 20:	41.7.0.79	0	
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-Alo	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	
r	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
1												-	-'
		🕤 Same IP	Start IP:	192.168.69 .96	Ports 80		ietmasic (255.25	5.240.0	Gateway: 19	2.168.69 .1	DNE: 8.8	.8 .8	
									() Activat	e 🔔 Export l		() Modify	
Spen	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.

Rote:

- 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 Too	ls Net	work Settin			Upgrade		CANAL PROPERTY AND INCOME.	isword irch here
	No Device 59 Network	Name Status	MAC IP	Port 5.190 80	Netmask 255,255,255,0	Gateway 192,168,5,1	Model MS-C2964-FPB	Run-up Time 2018-12-19	Version 40.7.0.65-pw
	C CO Naturali		40.04.00.00 400.400	2.74 00	055.055.040.0	100 168.7.1	MS-C3762-FIPB	17.48.04 2018-12-21 17:43:15	a6 41.7.0.65-pwo a6
IPC Tools		Adiv	ation			× 168.5.1	MS-C4472-FIPB	2018-12-24	41.7.0.68-a6
19-03 10015						168.7.1	MS-C2975-PB	2018-12-24 17:02:43	40.7.0.68
	(3)					168.7.1	MS-C5362-EPB	2018-12-18 16:10:37	41.7.0.65-pwo a6
	9				_	168.2.1	MS-C2862-FPB	2018-12-21 16:44:30	41.7.0.68-96
	User Name:	admin				168.5.1	MS-C2963-PB	2018-12-18 13:38:35	40.7.0.67-12
	Password: Confirm:					168.7.1	MS-C2972-FPB	2018-12-20 13:27:14	40.7.0.67-110
	Set the Security Q	estion				168.7.1	MS-C5372-FIPB	2018-12-18 22:18:58	41.7.0.67-ptz dome-a6
\smile	Security Question 1:	What's your father's na	me?			168.7.2	MS-C3772-FIPB	2018-06-15 17:10:58	41.7.0.65-r4
NVR Tools	Security Answer 1:	C				168.7.1	MS-C4482-PB	2018-12-20 16:15:03	41.7.0.65-pw a6
	Security Question 2:	What's your father's na	me?		-			2019.07.04	1
	Security Answer 2:	0			9	255.0	Gateway 192.1	168.5 .1 D	8. 8. 8. 8) GI
	Security Question 3:	What's your father's na	me?		-	4	🕖 Activate 🔳	Export Device L	List 🗶 Ma
	Security Answer 3:	0			2		(2)	8	
(+)									
Calculators					_	_			
Galculators					A .	Save			

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

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	⊾` IPC	C Tools						Upgrade			345678 arch here	
	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time 2019-09-24	Version	
	58	Network Camera	Active	1C:C3:16:90:81:5E	192.168.7.92	80	255.255.240.0	192.168.7.1	NC9674-PB	17:36:18	43.7.1.72	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	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
5	62	Network Camera	Active	1C:C3:16:23:01:39	192.168.7.124	80	255.255.240.0	192.168.9.2	MS-C2962-FPB	2019-09-26 08:28:26	41.7.0.71-r35	6
-	63	IPCAM	Active	1C:C3:16:21:FA:67	192.168.7.132	80	255.255.255.0	192.168.5.1	MS-C3772-FIPB	2019-09-27 11:25:49	41.7.0.71-r15	e
-	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 09:46:16	40.7.0.71-r8	e
-	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	6
-	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	e
-	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	C
-	60	2021年本初会2	Activo	10-02-16-01-20-	100 160 7 014	00	255 255 240.0	100 160 7 1	NG C0070 PD	2019-09-26	40 7 0 71 -15	C
		evice Name: etwor	k Camer	a) IP: 192.168.7	.114 Port 80		Netmask: 25	5,255,240.0	Gateway: 192.1	168.7 .1 DM	IS: 8.8.8.8	-
								a) Activate	Export Device Li	st 🗶 Moc	lifer
								E		Export Device Li.		
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	ŕ
											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.



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;

nternet Protocol Version 4 (TCP/IPv4) Properties						
General						
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
Obtain an IP address automatical	у					
Output See 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	atically					
Ose the following DNS server add	resses:					
Preferred DNS server:	192 . 168 . 1 . 1					
Alternate DNS server:	· · ·					
Validate settings upon exit						
	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	ings		? ×			
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 metr Interface metric:	ic					
		ОК	Cancel			
TCP/IP Address		-	8 X			
IP address:	192	. <mark>1</mark> 68 . 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);

sight Network Ca	mera				🕀 English 🛩	💄 admin 🛩
📥 Media	>	TCP/IP HTTP F	RTSP UPnP DDNS En	naì FTP		
Network Base Advanced	*	і іРч4 Туре С	Static DHCP			
B Storage		IP Address	192 . 168 , 69 , 66	Test		
Event	>	IPv4 Subnet Mask	255 . 255 . 255 . 0			
System	3	Pretered DNS Server i Brv6 IPv6 Mode IPv6 Address IPv6 Defaut Gateway MTU	8. 12.8 12.8 12.8	1200-1500 Bytes		
	Media Media Network Basc Advanced Storage Storage Event	Network Base Advanced Storage Storage Event	Medua TORIP HTTP Network Issoc Advanced Storage Storage System You Subset Mask IPv4 Default Galeway Pretered DNS Server IPv6 Mode IPv6 Address IPv6 Default Galeway IPv6 Default Galeway IPv6 Default Galeway IPv6 Default Galeway IPv6 Default Galeway	¹ Medua ¹ DPAP ¹ HTTP RTSP UPAP DDNS E ¹ Pr4 ¹ Storage ¹ Storage ¹ Pr4	Ideal ICPUIP HTTP RTSP UPuP DDNS Email FTP Invok Invok <td>Image: Analog Image: Type TYPE TYPE DHOP DNS Email PTP Image: Analog Image: Type Static DHOP Image: Type Static DHOP Image: Static Type Static DHOP Image: Type Image:</td>	Image: Analog Image: Type TYPE TYPE DHOP DNS Email PTP Image: Analog Image: Type Static DHOP Image: Type Static DHOP Image: Static Type Static DHOP Image: Type Image:

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 https://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.

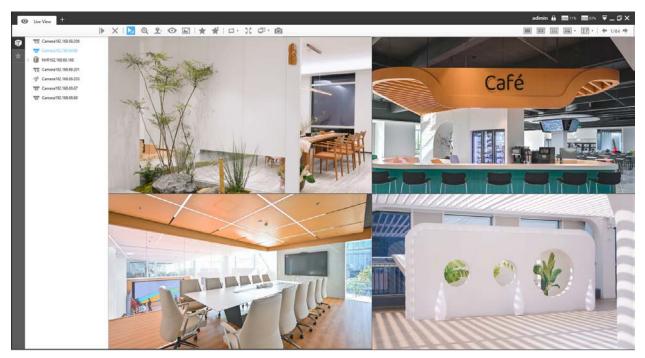
For detailed information about how to use the Milesight NVR Series, please refer to *Milesight NVR User Manual*.



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/.

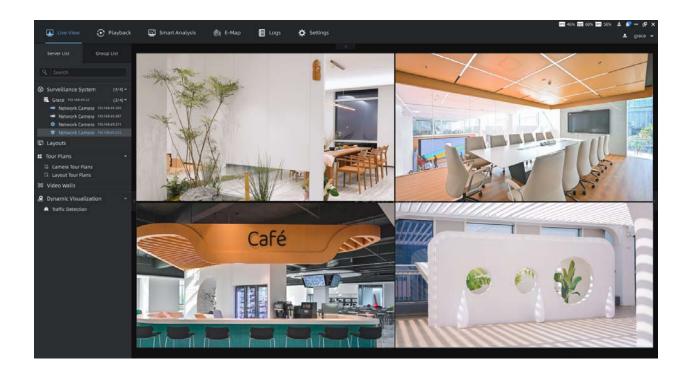
Please install Milesight CMS; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to *Milesight CMS User Manual*.



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	ک 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	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	S AUTO ✓ Window Size	Click to display images at a window size.
17	E3 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.
	@ O	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.
Q		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.
	*o	Brightness: Adjust the Brightness of the scene. Contrast: Adjust the color and light contrast. Saturation: Adjust the Saturation of the image. Higher Saturation
ļļļ		 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: 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 23)</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.			
	Focus-/Focus+	Click to focus near or far of the lens.			
	J 🗆 🧿	Lens Initialization, Auxiliary Focus and Auto Iris. Note: The Auto Iris is turned on by default.			
Q		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.			
	Ŷ	Enable to set 300 preset positions for each regional view channel.			
	۲	Enable to set 8 patrol paths for each regional view channel.			
	¢	Display the pattern.			

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	(•		₽	
001	road			8	×	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				B
007	Prese	et 7				B
800	Prese	et 8				a
009	Prese	et 9				a
010	Prese	et 10)			B
011	Prese	et 11				a
012	Prese	et 12	2			B
013	Prese	et 13	}			B
014	Prese	et 14	ŀ			a
015	Prese	et 15	5			B
016	Prese	et 16	5			B
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 rightarrow to call the preset.

() ()		¢
001	road	a	X Øl
002	Preset 2		a
003	Preset 3		ä
004	Preset 4		ä
005	Preset 5		ä

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	44	Path8
35	Self Check	45	Pattern1
36	Patrol	46	Pattern2
37	Path1	47	Pattern3
38	Path2	48	Pattern4
39	Path3	49	Stop Scan
40	Path4	50	Auto Scan
41	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;

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

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

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

Set / Call a pattern

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

Set a pattern:

Step1: In the PTZ control panel, click 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:

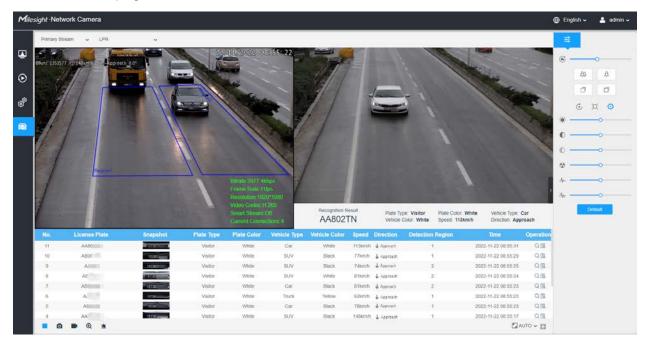
The three button behind the Pattern list means: Play, Record and Delete.

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.



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.

Bote:

- 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".

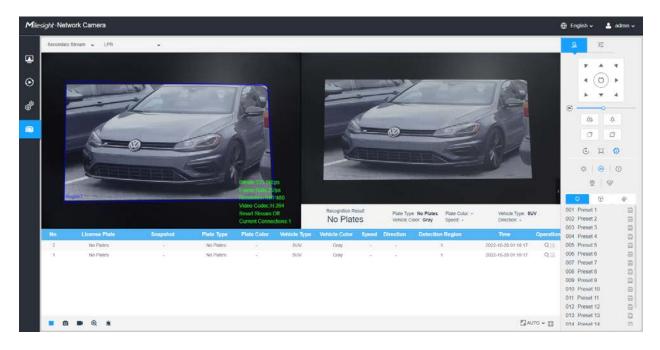


Table 75. Description of the buttons

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

	Parameter	Description
3	ලම් 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 V	
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.

	Parameter	Description
12	E Alarm	When the Visitor license plates passing by, the icon appears.
13	o Snapshot	Click to capture the current image and save to the configured path. The default path is: C:VMS\+-1\ IMAGE-MANUAL.
14	Start/Stop Recording	Click to 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 .
15	Q Digital Zoom	When enabled, you can zoom in a specific area of video image with your mouse wheel.
16	Manual Output	Manually trigger Camera Alarm Output.
17	Kauto ✓ Window Size	Click to display images at a window size.
18	Full Screen	Click to display images at full-screen.
Operation	Q	Click to view selected license plate with a large picture.
Operation	B	Click to add the selected license plate to White/Black List.

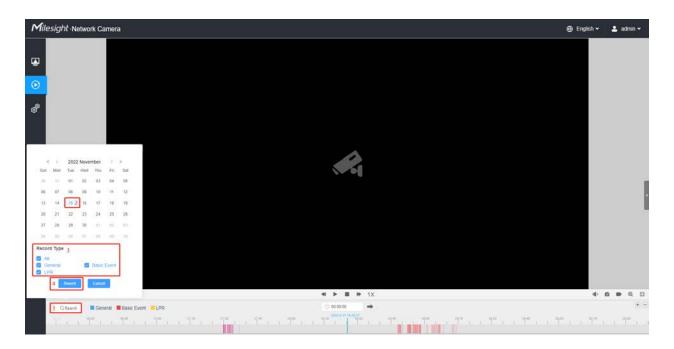
3.6 Playback

Playback

Click Oto 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	Sun Mon Tue Wed Thu Fri Sat 30 31 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 01 02 03 04 05 06 07 08 09 10 Record Type I All Is Issic Event I Lips Sateria Issic Event I Lips Search Cancel	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	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 Ca	amera						🕀 English 🗸	•
👌 Media	~	Primary Stream Sec	condary Stream	Tertiary	Stream			
Video Irrage Audio		Record Stream Type	General	Ċ.	Event			
Network		Video Codec	H.264	-	11.254	÷		
B Storage		Frame Size	1920*1080			×		
Event	÷.		25	- 41			fps	
🐼 System	•	Bit Rate	4096		4096	4		
		Smart Stream	Off	- 4	0e			
		Bit Rate Control	CBR		CON	ú.		
		Profile	Main	- 4	Man 1	÷		
		I-frame Interval	50				frame(1-120)	
			Save					

Secondary Stream Settings

Mil	e <i>sight</i> ∙Network C	amera					🕀 English 🛩	💄 admin 🛩
	A Media	÷	Primary Stream	Secondary Stream	Tertian	Stean		
•	Image Audio		Enable Video Codec	M 264				
	Network	>	Frame Size	640*480				
ø	B Storage		Maximum Frame Rat			tis .		
	Event		Bit Rate	512				
	🕃 System	,	Smart Stream	or	ų			
			Bit Rate Control	CBR	- 4			
			Profile	Main	Ŷ			
			I-frame Interval	50		frame(1-120)		
				Save				

Tertiary Stream Settings

filesight Network	Camera					🕀 English 🛩	💄 admin
👌 Media Video	÷	Primary Stream Ser	condary Stream	Tertiary	Nean		
Image		Enable					
Audio	140	Video Codec	H.264	10			
Network	,	Frame Size	640*480	Ŷ			
B Storage		Maximum Frame Rate	25	191	tps		
🖾 Event	>	Bit Rate	1024	ŵ.	kāps		
🐼 System	,	Smart Stream	or	- Q.			
		Bit Rate Control	CBR	- 41			
		Profile	Main				
		I-trame Interval	50		frame(1-120)		
			Sine				

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(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. Image: 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.
Bit Rate Control	VBR : Variable Bitrate. VBR files vary the amount of output data per time segment.
Image Quality	Low/Medium/High are available, this item is optional only if you select VBR.

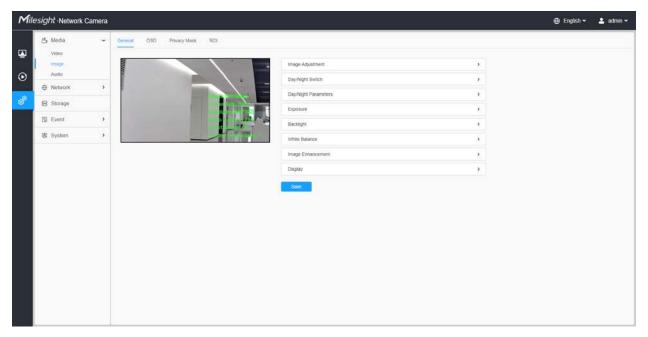
Parameters	Function Introduction			
Profile	The option is for H.264, Main/High/Base can be selected as needed.			
I-frame Interval	Set the I-frame interval to 1~120, 50 for the default. This item is optional only if you select the H.265/H.264. The number must be a multiple of the number of frames.			

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]

Milesight Net	work Came	ra									🕀 English 🛩	💄 admin 🗸
Media Video Image Audio Network	k	General	OSD P	nvacy Mask	ROI	Brightness Contrast	5		-0			
Storage		<u>,</u>				Saturation Sharpness	5					
🕱 System		,			AT THE	2D DNR 3D DNR	5	-				
						Detaut Day/Night Switch						
						Day/Night Parame	ters			-1		
						Exposure						
						Backlight White Balance						
						Image Enhancem	ent			6		
						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.

Rote:

- 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.

filesight Network Ca	mera				🕀 English 🗸 💄 adn
A Media	General	OSD Privacy Mask ROI			
Image	illinn,		Image Adjustment	3	
Audio			White LED Light		
Network	,		Light Control O Auto Always on	Off Customize	
Storage			Sensitivity 3		
[5] Event	2		Delay Time 5 st	(1-60)	
@ LPR	,			(1-60)	
			Brightness 100	o	
🐼 System	>		Note: White LED Light and IR Light can not be turned on a	at the same times	
			Day/Night Switch	3	
			Day/Night Parameters	3	
			Exposure	28	
			Backlight		
			White Balance	>	
			Image Enhancement	•	
			Display	•	
			Save		

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				
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.				

Param	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 Ligh	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	sight Network Car	nera				🕀 English 🗸	💄 admin 🗸
•	Media Video Image Audio	÷	General OSD Privacy Mask ROI	ent	•		ſ
•	Network	•	Dayhlight Se		<u> </u>		
0 @	Storage	,	Mode Start Time of	Night Day Auto O Customize			
	(R) LPR	,	End Time of	ight (6) 06:00			
	厦 System	,	Diry/Night Si Smart IR Mi				
			Mode Near View II	Auto 🧿 Ĉustomize			
			Pear View IP				
			Supplement IR Strength				
			Day/Night Par		•		
			Exposure Backlight		3 3		

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

Table 81. 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 82. 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. I Smart IR Mode Mode • Auto • Customize IR Strength Value Near: 20 Far: 70 Supplement: 70 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							
Smart IR Mode	Customize	Supplement Light model with the IR LED Light. 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. • IR Strength Value: Show the current value of Low-Beams LED, High-Beams LED and IR LED Supplement Light value. I Smart IR Mode Near View IR Level 70 Reset Far View IR Level 70 Reset IR Strength Value Near: 70 Far: 70 Supplement 100 • IR LED Supplement Light: https://youtu.be/YVTVR88V0Rg • White LED Supplement Light: https://youtu.be/wn18oEzY5yk							

[Day/Night Parameters]

Mile	sight Network C	amera										🕀 English 🛩	💄 admin 🛩
æ	A Media Video	Ŷ	General	DSD Privacy Mas	a ROI								
	Audio					Image Adjustment					20		
۲	Network	,				Day/Night Switch					2		
¢ [®]	B Storage					Day/Night Parameters	🔆 Day		L Nght		*		
	Event	,				Exposure Level	5	4	5	4			
	🕼 System	,			- Tring and	Minimum Shutler	1/25	÷	1/25	- H			
						Maximum Shutter	1/100000	- 10	1/100000	÷.			
						Limit Gain Level	100		100				
						IR-CUT Latency	55	9	55	14. 1			
						IR-CUT	On		or	×.			
						IR LED	01	2	On				
						Color Mode	Celor	12	B/W				
							Reset		Reset				
						Advanced Schedule Mode	B						
						Exposure					2		
						Backlight					>		
						White Balance	Save						
							odve						

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 maximur 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	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.			

[Exposure]

Mile	esight Network Ca	amera						🕀 English 🛩	💄 admin 🛩
Min.	esight Network Ca b Media video Image Audio ⊕ Network ⊟ Storage ⊡ Event ঊ System	omera Gener 3 3	050 P	hacy Mask ROI	Image Adjustment Day/Night Switch Day/Night Parameters Exponent Mode Backlight White Balance Image Enhancement Display	Aufo Manusi Schedule	2 2 3 2 3 3 3 3 3 3 3	⊕ English v	≗ admin ~
						Sinc			

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 environment automatically. Manual Mode: The camera will adjust the brightness according to the you set, you can set the exposure time from 1~1/100000s, the higher is, the brighter the image is. Schedule Mode: You can customize the schedule to enable/disable Mode and Manual Mode.	ne value er the value
Exposure Mode		Xuto Mode Manual Mode

[Backlight]

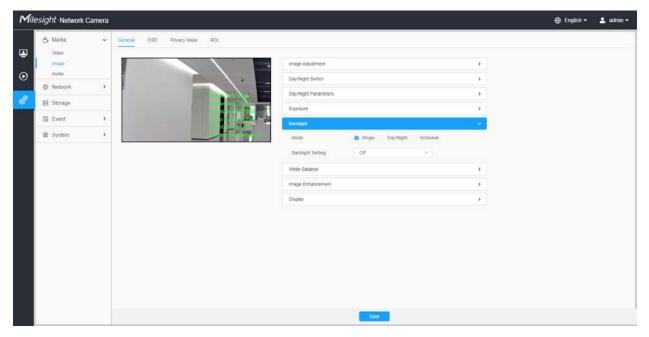


Table 85. Description of the buttons

Parameters	Function Introduction						
	 Single Mode: Set single mode for BLC/WDR/HLC. Note: Do not support WDR and General HLC while H enabled. Day/Night Mode: Support BLC/WDR/HLC on Day Enhance Enhancement Mode separately. Schedule Mode: Set schedule mode for BLC/WDR/HLC. Y the schedule to enable/disable BLC/WDR/HLC mode. 	ement Mode/Night					
Backlight Mode	Edit	 BLC WDR ✓ HLC 					

Rote:

• 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]

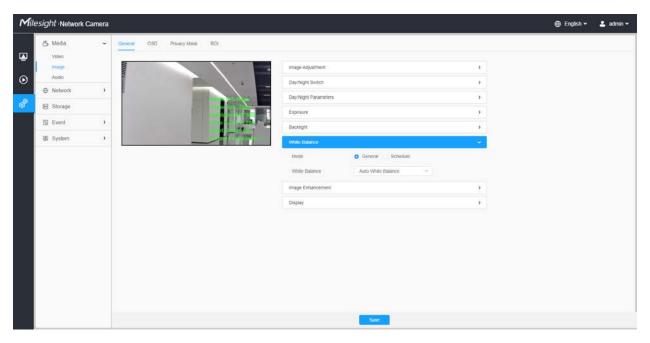
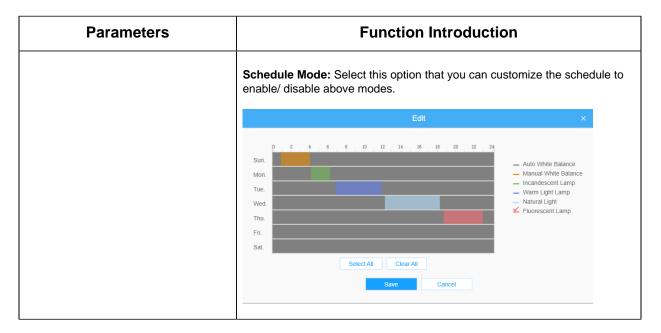


Table 86. Description of the buttons

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]

Meda Central OS Princy Mak Network Audia Network Storage Event System Network System Network Bisorage System Network Bisorage District Bisorage District	Milesight Network	Camera							🕀 English 🛩	💄 admin 🛩
Image Audo Image Audo Image Network Image Image </th <th>Contraction of the second s</th> <th>×</th> <th>eneral OSD Priv</th> <th>acy Mask. ROI</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Contraction of the second s	×	eneral OSD Priv	acy Mask. ROI						
Image: Network Image: Storage Image: Storage Image: Storage Image: Storage Image: Storage Image: Storage	Timage C				Image Adjustment			×		
B Storage C Event B System B B B B B		140		- \ ·	Day/Night Switch			*:		
Image: Explose Image					Day/Night Parameters			>		
(§ System) (§ System) (Stem)	B Storage				Exposure			,		
Image Extransmont Vinite statilitie Vinite statilitie Vinite statilitie IR Balance Mode Off Vinite statilitie Reduce Moden Blur Off Vinite statilitie Defog Mode Off Vinite statilitie Defog Mode Off Vinite statilitie	🖾 Event	•			Backlight			,		
IR Balance Mode Off ↓ Reduce Moden Blar Off ↓ Delog Mode Off ↓ Digfal Image Stabilisation Off ↓	🐼 System	>		T***	White Balance			3		
Reduce Motion Blue Off V Delog Mode Off V Digfat Image Stabilisation Off V					Image Enhancement					
Detog Mode Off V					IR Balance Mode	08	(m)			
Digital Image Stabilisation Of v					Reduce Motion Blur	01	Sec.1			
					Delog Mode	OR				
Display					Digital Image Stabilis	ation Of	1911			
					Display					
						Save				
						Ouro				

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
	Enable this function to reduce the motion blur of objects effectively.
	You can adjust the deblur level from 1 to 100.
Reduce Motion Blur	Note: For more details about Milesight Deblur , you can click to the YouTube:
	https://www.youtube.com/watch?v=-vynrami51s
	Better image effect in foggy weather.
	Note:
Defog Mode	• 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	sight Network (Camera										🕀 English 🛩	💄 admin 🛩
_	🖧 Media	~	General	OSD	Privacy Mask	ROI							
•	Video Image		linn			1		Image Adjustment			2		
0	Audio	120				_ /	*	Day/Night Switch			₹:		
d ^e		,	1					Day/Night Parameters			2		
©.	B Storage						I TOPIC	Exposure			>		
	Event Event	>					State Page	Backlight			>		
	System	3				1	Contraction of the local division of the loc	White Balance			3		
								Image Enhancement			2		
								Display					
								Power Line Frequency	.50Hz	199			
								Outdoor/Indoor Mode	Cuttoor	19 I			
								Corridor Mode	01	081			
								Image Rotation	101				
								Keep Correct Aspect Ratio	07				
									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.

<u>OSD</u>

Milesight Network	Camera							🕀 English 🛩	💄 admin 🛩
👌 Media	~	General	50 Privacy Mask	ROI					
Video		Network Cam	-	19/04/2022	8:58:11 Video Stream	Primary Stream	(u)		
Audio				- / *	Regular				
Network	,				Font Size	Medium	Ý		
B Storage				1. Contraction	Font Color		0		
🖾 Event	•				h P b	_			
🕃 System	,			1	Background Color		•		
					Video Title				
					Show Video Title	2			
						Network Camera			
					Text Position	Top-Left	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -		
					Zoom Status	55	19 I		
					Timestamp				
					Show Timestamp	2			
					Date Position	Top-Right	14		
					Date Format	DDMM/YYYY	94		
					E Copy to Other 5	treams 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.

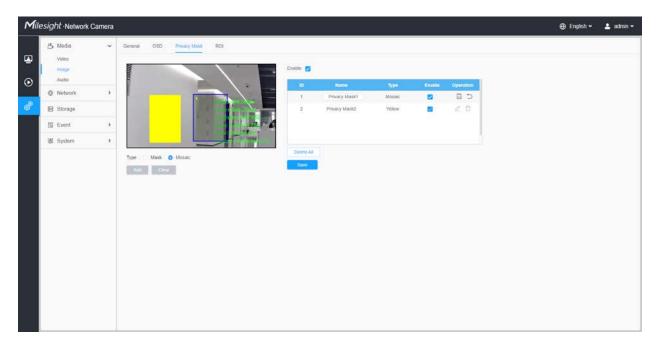


Table 90. Description of the buttons

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 drev	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.

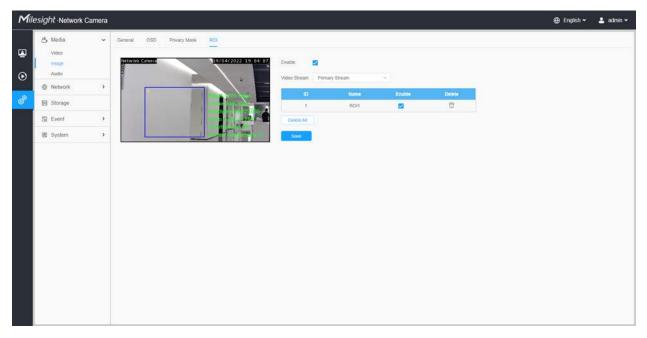


Table 91. Description of the buttons

Parameters	Function Introduction		
Enable	Check the checkbox to enable the ROI function.		
Video Stream	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.

Mile	sight Network	Camera				🕀 English 🛩	💄 admin 🗸
	🖒 Media	~	Audio Audio File Management				
•	Video Image			Enable			
\odot	Audio	140		Audio Mode	Both Audio Input & Output 🧹		
ø	Network	,		Audio Input			
	B Storage			Denoise			
	Event	•		Encoding	G.711-ULaw =		
	System 3	,		Sample Rate	Biotz v		
				input Gain	500		
				Audio Output			
				Auto Gain Control			
				Output Volume	50O		
				Save			

Table 92. 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.

Mile	esight Network C	amera		🕀 English 🛩	🛓 admin 🗸
•	Media Video Image Audio	v	Audio File Management Audio File Storage Type: Flash		
⊙	Network	,	Audio File ① SD		
ø	B Storage		ID Audio File Nama Delete		
	🖾 Event	•	No.Data		
	€ loT	•	A50		
	@ System	,			

Bote:

- 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

filesight ·Network Camera		🕀 English 🛩	💄 admin 🕯
👌 Media 💦 👌	TCRIP HTTP RTSP UPoP DONS Email FTP		
Network Sesc Advanced	1 19-94 Type O Statto DHCP		
B Storage	IP Address 192 , 168 , 69 , 66 Test		
G Event >	IPv4 Subnet Mask 255 . 255 . 0		
	IPv4 Default Gateway 192 . 168 . 69 . 1 Preferred DNS Server II . 6 . 6 . 6		
	Prvš Manual IPvš Mode: Manual IPvš Address I IPvš Potkut, Gateway I Prvš Detaut, Gateway I MTU 1500 Istaw I		

Table 93. Description of the button

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.
IPv4	B Note: The Test button is used to test if the IP is conflicting.
IF V4	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
МТU	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>

ilesight Network Camera	-		🕀 English 🛩 💄 ar
🖧 Media 🔷	терир нттр	TSP UPoP DONS Email FTP	
Network Sese Advanced	HTTP Enable		
B Storage	Port		
S Event >	HTTPS		
I System →	Enable		
	Installed Centificate Attributes	S LUS, HATP-IBC Reset USL, HIP-IBC word of Valueday ay 5 10:57:12 2023 cate a Private CentRicate	

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.

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>

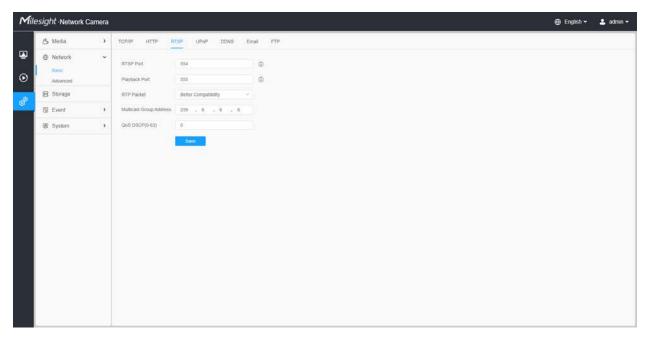


Table 96. Description of the buttons

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.

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.

٦

Mile	≘ <i>sight</i> ∙Network Ca	amera						🕀 English 🛩	💄 admin 🗸
	📇 Media	>	TCP/IP HTTP		ONS Email	FTP			
•	Network Basic Advanced	~	Enable Provider	ddns milesight com					
đ	B Storage		External HTTP Port	80					
©.	S Event	•	External RTSP Port	554					
	B System	•		555 http://doins.miesight.com	248166				

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.				

F 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.

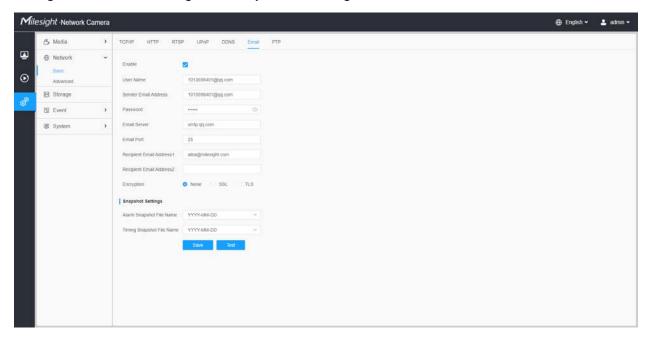


Table 100. Description of the buttons

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.

ilesight Network Can	iera	r.		
👌 Media	•	TCP/IP HTTP RTSI	P UPoP DONS	Email
Network Basic Advanced	*	FTP Server Settings	FTP	19
B Storage		Server Address	192.168.70.97	
S Event	>	Server Port	21	
🕼 System	•	User Name	aba	
		Password FTP over SSL/TLS(FTPS)		0
		Storage Path	Root Directory	
		Alarm Action File Name	Default(YYYY-MM-DD)	Ŷ
		Timing Snapshot File Name	YYYY-MM-DD	Ψ.
		Pre Second	Q s Sawe Test	

 Table 101. Description of the buttons

Parar	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.

3.7.2.2 Advanced

VLAN

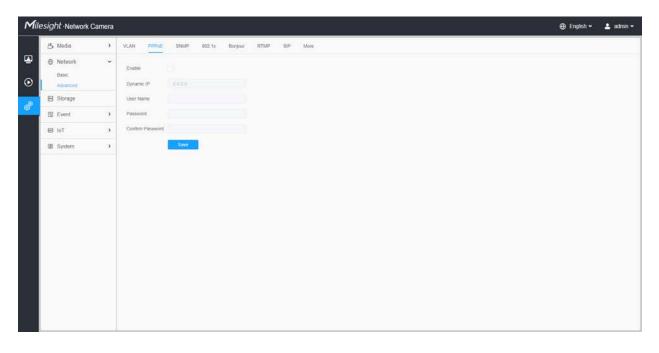
A virtual LAN (VLAN) is any broadcast domain that is partitioned and isolated in a computer network at the data link layer (OSI layer 2). LAN is an abbreviation of local area network. VLANs allow network administrators to group hosts together even if the hosts are not on the same network switch. This 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.

Mile	esight Network (Camera		🕀 English v	💄 admin 🛩
	📇 Media)	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
₽ ⊙	Network Basic Advanced	*	Enable VLAN ID(1-4054)		
đ	B Storage		VUM IP		
©.	Event	3	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.



Rote:

- 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	<i>sight</i> ·Network C	Camera													🕀 English 🗸	admin 🛩
	📇 Media	>	VLAN	PPPoE	SNMP	802.1x	Bonjour	RTMP	SIP	More						
₽ ⊙	Network Basic Advanced	*	SNMP CEnable													
i i	B Storage		Enable	SNMP V2c												
ď	S Event	3	Write Cr	ommunity	poblic											
	e lot	•	Read C	ommunity.	private											
	🗷 System	,	Enable													
				ecurity Name												
				Security scurity Name	HO ALTIN A	io pen /	M									
			Level of	Security	no anti-r	n páy	÷									
			SNMP F	Port												
			SNMP F	hort	161											
					Save											

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					

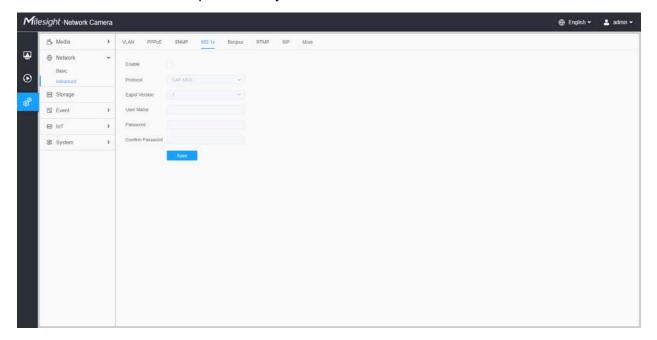
Parameters	Function Introduction
	Enable SNMP v3: Provide encryption and the HTTPS protocol must be enabled.
	Read Security Name: Input the name of Read Security Community.
SNMP v3	Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv).
	Write Security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

F 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>

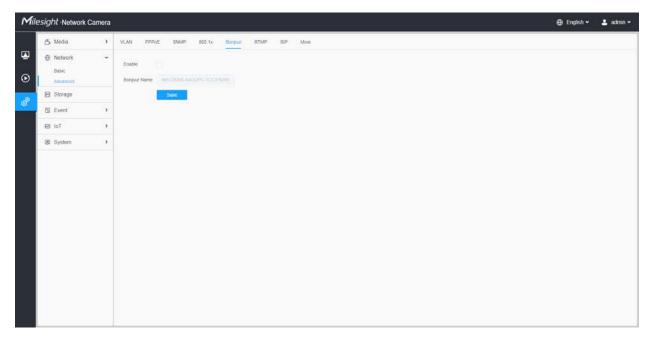
The IEEE 802.1X standard is supported by the network cameras, and when the feature is enabled, the camera data is secured and user authentication is needed when connecting the camera to the network protected by the IEEE 802.1X.



<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	sight Network C	amera		🕀 English 🛩	💄 admin 🛩
	👌 Media	,	VLAN PPPOE SNMP 802.1x Bonjour R114P SIP More		
•	Network Basic Advanced	*	Enable Stream Type - Princip Stream		
ď	B Storage		Server Address		
	S Event	>	Save		
	😝 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.

Mile	esight Network (Camera		🕀 English 🛩	💄 admin 🗸
	🖧 Media)	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
•	Network Basic Advances	*	StP Settings > Atam Phone List >		
ø	B Storage		White List >		
Ø	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]

ght Network (Camera						🕀 English 🛩
5 Media		VLAN PPPoE SNMP	802.1x Bonjour	RTMP SIP More			
Network Basic	÷	SIP Settings			~		
Advanced		Enable	0				
3 Storage		Register Mode	Castle	27.1			
Event	3	User ID	505				
9 IoT	•	User Name	reporter				
§ System	•	Password					
		Server Address					
		Server Port	3000				
		Connection Protocol		ан. 1			
		Video Stream	Printing Station	(w)			
		Enable Audio in SiP Call					
		Max Call Duration	1000	s (0 means no limitation.)			
		Status	Unregistered				
		Alarm Phone List			2		
		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]

Mile	esight Network C	amera		🕀 English 🕶	💄 admin 🛩
	👌 Media	> V	LAN PPPoE SNUP 802.1x Bonpor RTMP SP More		
•	Network Basic	÷	SIP Settings		
ð	Advanced B Storage		Alami Phone Lal v SIP Phone Phone Type Remark Name Duration Delete		
Ø	Event	3	1837659038 Phone Number 00.00-23.59		
	I System	•	Add Delete All		
			BAR		

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.
	Delete the selected alarm phone.
Delete All	Delete all added alarm phone.

[White List]

Mile	esight Network (Camera	н. 1				🕀 English 🕶	💄 admin 🗸
	👌 Media	•	VLAN PPPoE SNMP	802.1x Bonjour RT	AP SIP More			
•	Network Basic Advanced	*	SIP Settings Alarm Phone List			<u>)</u>		
	B Storage		White List			·		
ø	S Event	3	Enable White List Number Filter	9/				
	😰 System	•	SIP Phone	Phone Type	Delete			
				No Data				
			Add					

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 (Camera		🕀 English 🛩	💄 admin 🛩
	👌 Media	,	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
•	Network Basic Advanced	•	Push Message Settings Enable		
đ	B Storage		Push Event Type Edit		
	Event	>	ONV/F Setting		
	€ IoT	•	Enable		
	System	•	Sare		

Table 106. Description of the buttons

Parameters	Function Introduction					
	Enable: Enable/disable the Push Message function					
	Edit to choose the types of Ever message which will be pushed to M-sight Pro App as shown below:	nts'				
	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 camera ONVIF function is enabled, it can be searched out, added and co by third-party software through ONVIF protocols. Generally, the default st ONVIF function is enabled.	onnected				

3.7.3 Storage

Storage Management

Mile	esight Network C	amera		🕀 English 🛩	💄 admin 🛩
•	Media Video Image Audio	2	Storage Management Record Settings Bnapshot Settings Explorer J S0 Card 20.440/55.440 Format		
	Network	>	NAS		
đ	B Storage		No Server Address Directory Mounting Type Total Free User Name Status Operation		
	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
	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.
	PNote:
	 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 Sasic Advanced	Storage Settings Enable Recycle Storage		
e Storage	Pre Second 0 seconds V		
Event >	Schedule Settings		
	Sun. Mon. Web Web Thu. Fri. Select A# Cear A#		

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

Mile	esight Network (Camera		🕀 English 🛩	💄 admin 🛩
	📇 Media	•	Storkge Management Record Settings Snapshot Settings Explorer		
٠	Network	>	Snapshot Settings		
\odot	B Storage		Enable Timing Snapshot 💆		
	S Event	•	Interval 1 N -		
ø	🕼 System	•	Save to storage (Please mout storage divice)		
			Upload Via FTP		
			Upload Via Email		
			HTTP Post		
			Schedule Settings		
			F I 6 8 9 10 16 18 18 18 18 18		
			Sun Mon		
			Tue.		
			Wed		
			Thu Pri		
			5al.		
			Select A4 Clear A8		
			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 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	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 X Image: Copy To X Sun. Sun. Mon. Tue. Wed. Copy the schedule area to another date. Thu. Fri. Sat. Save Select All Select all schedule.

Parameters		Function Introduction
	Clear All	Clear all schedule.
Save	Save the configuratior	n.

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.).

• Netrodik • Main Type Sub Type Add • Stat Time • 20220525 00 0.00 End Time • 20220525 00 0.00 End Time • Stat Time Stat Time • Stat Time				ement Record Settings Snap	shot Settings Explorer			
Bit Storage File Name Start Time Kird Time Kird Time Type Start I Piere Name 120220023192231 2022-00251922.31 2022-00.25 19.27.35 Timing 250 64M I Piere Name 120220023192231 2022-00.25 19.27.31 2022-00.25 19.27.35 Timing 250 64M I Piere Name 120220023192724 2022-00.25 19.27.45 2022-00.25 19.37.44 Timing 251 54M I Piere Name 120220032193744 2022-00.25 19.37.44 2022-00.25 19.47.54 Timing 251 54M I Piere Name 120220032194744 2022-00.25 19.47.54 2022-00.25 19.87.64 Timing 251 54M I Piere Name 120220032194754 2022-00.25 19.47.54 2022-00.25 19.87.64 Timing 250.99M I Piere Name 120220032194754 2022-00.25 19.87.65 Timing 250.99M	Network Network	>	Main Type	Record Sob Time	All Start Time	2022/03/25 00 00 06 Fed Time 5 2022/03/25	21.59.69	- Manuth
Image: System 102220223192231 2022.0325 1922.31 2022.0525 192.735 Tmmg 256 644 Image: System 102220223192735 2022.05.25 192.735 2022.05.25 192.740 Timing 251 514 Image: System 102220223192735 2022.05.25 192.740 2022.05.25 192.740 2022.05.25 192.740 2020.05.5 192.740 Timing 251 544 Image: System 102220223193774 2022.05.25 192.744 2022.05.25 194.749 2022.04.25 194.740 251 544 Image: System 10222022319474 2022.05.25 194.740 2022.04.25 194.754 Timing 251 544 Image: System 10222022319474 2022.04.25 194.740 2022.04.25 194.740 2022.04.25 194.740 2020.04.25 194.740 <t< th=""><th>E Storage</th><th></th><th></th><th></th><th>at deal and the second second the</th><th></th><th></th><th></th></t<>	E Storage				at deal and the second second the			
Image: System 100220028192735 2022-03-25 19 27.35 2022-04-25 19 32.40 Timing 251.61M 100220022192725 2022-03-25 19 32.40 2002-04-25 19 32.40 Timing 250.95M 100220022192914240 2002-03-25 19 37.44 2002-04-25 19 47.54 Timing 251.61M 100220022194249 2002-03-25 19 37.44 2002-04-25 19 47.54 Timing 251.60M 100220022194249 2002-03-25 19.47.54 2002-04-25 19.25.06 Timing 251.60M 100220022194249 2002-03-25 19.47.54 2002-04-25 19.25.06 Timing 250.95M 100220022194754 2002-03-25 19.52.56 2002-03-25 19.52.56 2002-03-25 19.50.02 Timing 250.95M 10022002219425196022 2002-03-25 19.52.56 2002-03-25 19.50.02 Timing 250.69M 10022002219425196022 2002-03-25 19.50.02 2002-03-25 19.50.02 Timing 250.69M 10022002219425196022 2002-03-25 19.50.02 2002-03-25 19.50.02 Timing 250.69M 10022002219425196022 2002-03-25 19.50.02 2002-03-25 19.50.02 Timing 251.66M	S Event	>	-					
120220325192240 2022 403-25 19:32:40 2022 403-25 19:37.44 Timing 250 5004 120220325193744 2022 403-25 19:37.44 2022 403-25 19:47.54 2002 403-25 19:47.54 Timing 251 3604 120220325193744 2022 403-25 19:37.44 2022 403-25 19:47.54 Timing 251 4604 120220325193754 2022 403-25 19:47.54 2022 403-25 19:25.69 Timing 251 4604 120220325193754 2022 403-25 19:25.68 2022 403-25 19:55.60 Timing 250 8904 120220325195258 2022 403-25 19:55.60 2022 403-25 19:56.02 Timing 250 8904 1202203251950502 2022 403-25 19:56.02 Timing 250 6904	R System							
120220325194249 2002 03-25 19-42:49 2002 04-25 19-47:54 Timing 251 4AM 120220325194274 2002 03-25 19:47:54 2002 03-25 19:52:66 Timing 250.05M 120220325195258 2002 03-25 19:52:56 2002 03-25 19:52:56 2002 03-25 19:58:02 Timing 250.05M 120220325195602 2002 03-25 19:52:56 2002 03-25 19:58:02 Timing 250.05M	- of second			120220325193240	2022-03-25 19:32:40	2022-03-25 19 37-44		250 92M
120220329194754 2022.03.25 19.47.54 2022.03.25 19.87.54 2022.03.25 19.82.58 Timmg 250.69M 120220329195258 2022.03.25 19.52.58 2022.03.25 19.88.02 Timmg 250.69M 120220329195258 2022.03.25 19.50.26 2022.03.25 19.58.02 Timmg 250.69M 120220329195692 2022.03.25 19.50.02 2022.04.25 19.00.06 Timmg 251.65M				120220325193744	2022-03-25 19:37:44	2022-03-25 19:42:49	Timing	251 36M
120220025195236 2022-03-25 19 58 236 2022-03-25 19 58 02 Timing 250 694 120220025195602 2022-03-25 19 58 02 2022-03-25 19 58 02 2022-03-25 19 58 02 Timing 251 654				120220325194249	2022-03-25 19:42:49	2022-03-25 19:47:54	Timing	251.44M
12022025195602 2022-03-25 19:58:02 2022-03-25 20:03:08 Timing 251:65M				120220325194754	2022-03-25 19:47:54	2022-03-25 19:52:58	Timing	250,894
				120220325195258	2022-03-25 19:52:58	2022-03-25 19 58.02	Timing	250,6944
120220028200008 2002-00-35 20 03 08 2002-03-25 20 07 37 Triming 221 72M				120220325195802	2022-03-25 19:58:02	2022-03-25 20 03:08	Timing	251.65M
				120220325200308	2022-03-25 20:03:08	2022-03-25 20:07:37	Tening	221.721/

3.7.4 Event

Basic Event

Motion Detection

Miles	ight Network Cam	era								🕀 English 🗸	💄 admin 🗸
	🖧 Media	,	Motion Detection	Audio Alarm	External input	External Output	Exception				
	Network	,	Design and the second	CONTRACTOR OF CONTRACTOR			Enable Detection				
\odot	E Storage						Enable Motion Analysis				
	S Event	~					Basic Settings		\$		
ø	Basic Event		30.5				Schedule Settings		,		
	© PTZ	>		Normal A	Video al		Alarm Action		\$		
	@ System	,					Save				
	lige System	0	Select All	Clear All			A				

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]

able Motion Analysis		
Basic Settings		÷
Mode	Normal Mode Advanced Mode	
Sensitivity	9O	
Onvif Motion ActiveCells Settings	Normal	
Schedule Settings		>
Alarm Action		>

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;

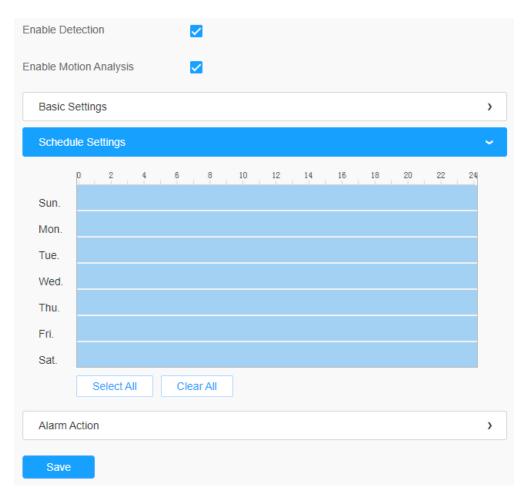


Table 112. Description of the buttons

Parameters	Function Introduction
Copy To × 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.
	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.

Mile	sight Network Cam	nera									🕀 English 🗸	🛔 admin 🗸
	යි Media	,	Motion Detection	Audo Alarm	External Input	External Output	Exception					
	Network	•	No. of Concession, Name	and the second states			Enable Audio Alarm	(Please enable the	Audio Mic.)			
\odot	E Storage				FRE		Basic Settings					
	Event	~	2		TK AND	A	Alarm Threshold	25				
đ	Basic Event		a Trans	1	East -	-	Audio Sample Value	0 0				
۲	B LPR	>	A COMPANY		Video God		Schedule Settings			,		
	@ System	,		and the second			Alarm Action			2		
							Save					

[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 85)</u> for the meanings of the items, here will not repeat again.

[Alarm Action]

Refer to the table <u>Table 4 (page 86)</u> for the meanings of the items, here will not repeat again.

External Input

Miles	<i>ight</i> Network Cam	era		🕀 English 🗸	🛓 admin 🗸
	🔥 Media	,	Motion Detection Audio Atarm External Input External Output Exception		
۳	Network	,	Enable External Input		
\odot	Storage		Schedule Settings 3		
đ	Basic Event	~	Alam Action		
	PTZ		Save		
•	@ LPR	,			
	B System	>			

Refer to the table <u>Table 3 (page 85)</u> for the meanings of the items, here will not repeat again.

External Output

Mile	sight Network Camera		🕀 English 🗸	🛔 admin 🗸
	👌 Media	Motion Detection Audio Atarm Enternal Input External Output Exception		
₽	Network	Normal Status Settings		
\odot	😫 Storage	External Output Open O Grounded		
đ	Base Event	Current Status Grounded		
	S PTZ	Manual External Output		
•	(a) LPR	Manual Output Start		
	@ System	External Output Action Time Manual Control V		
		Sar		

[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

Moda Moda Auda Auda Auda Detending Extendioque Derebin Netion Checkon Auda Auda Auda Detending Extendioque Derebins Netion Checkon Auda Auda Auda Detending Extendioque Derebins <td< th=""><th>sight Network Carr</th><th>nera</th><th></th><th>🕀 English 🛩 💄 admin</th></td<>	sight Network Carr	nera		🕀 English 🛩 💄 admin
Alsom Type Network Disconnected Basic Event Enable Alarm Basic Event IAlarm Action	👌 Media	>	Motion Detection Audio Alarm External Input External Output Exception	
Storage Basic Event Basic Event Atarm Action Atarm Action Atarm Action Atarm Action Basic Event Atarm Action Atarm Action <td>Network</td> <td>></td> <td>Alarm Type Network Disconnected</td> <td></td>	Network	>	Alarm Type Network Disconnected	
Basic Event I Alarm Action ip. PTZ Record ip. PTZ Snapshot ip. System Snapshot ip. System Ptay Audio "Please ender the Audio These ender	B Storage			
(iii) LPR 5 (iii) System Fitzer and Output (iii) System Pitzer and the Funder Statement (iiii) White LED 3		*	Alarm Action	
Image: System >	© PTZ		Record	
System Play Audio (Place ender the Audio Streater.) White LED >	(LPR	,		
	遼 System	>		
			O White LED >	

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 85)</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>

Mile	esight Network Ca	amera										🕀 English 🛩	💄 admin 🗸
	📥 Media	>	Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Aulo Tracking	Config Clear	Status			
	Network	,	Basic										
\odot	B Storage		PTZ OSD				,						
	S Event	•	Others				,						
ø	& PTZ		4										
	📾 LPR	•	Save										
	System	•											

[Basic]

liles	<i>ight</i> ·Network (Camera								🕀 English 🛩	💄 admin
	📇 Media	•	Basic Auto Home PTZ Li	mits Initial Position	Privacy Masi	k Scheduled Task	Aulo Tracking	Config Clear	Status		
	Network	>									
	B Storage		Besic			1993 (M)					
Į,	S Event	>	Preset Freezing								
	S PTZ										
	📾 LPR	•	Speed		(a)						
	System	•	Preset Speed	5							
			Patrol								
L			Patrol Recovering								
L			Patrol Recovery Time			s (5-720s)					
L			Focus								
L			Focus Mode	Semi-Auto	÷						
L			Minimum Focus Distance	1.m	. v						
L			PTZ OSD			,					
L			Others			,					
			Save								

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]

Image: Auto Home PTZ Linits initial Position Privacy Mask Scheduled Tasks Auto Tracking Conftg Clear Status Image: Auto Home PTZ Linits initial Position Privacy Mask Scheduled Tasks Auto Tracking Conftg Clear Status Image: Auto Home PTZ Linits initial Position Privacy Mask Scheduled Tasks Auto Tracking Conftg Clear Status Image: Auto Home PTZ Linits initial Position Privacy Mask Scheduled Tasks Auto Tracking Conftg Clear Status Image: Auto Home PTZ Linits initial Position Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home PTZ Linits Anvays Open Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home PTZ Linits Anvays Open Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Ptatern Status Anvays Open Image: Auto Home Image: Auto Home Image: Auto Home Ptatern Status Anvays Open Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Ptatern Status Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home Image: Auto Home I	files	<i>ight</i> ∙Network C	amera									🕀 English 🛩	💄 admin 🕯
Basic Basic Di Event Image: Direct Status Always Open Patent Status Always Open		💪 Media	,		PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	Status		
Image Image </td <td>1</td> <td>Network</td> <td>></td> <td>f and</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1	Network	>	f and									
Image: Prize Zoom Status Atways Open Image: Prize Pain & Tit Status Atways Open Image: Prize Priset Status Atways Open Image: Prizet Status Atways Open Image: Prizet Status Image: Prizet Status Atways Open		B Storage						_					
Image: Dirac Pain & Tit Status Always Open Image: Dirac Preset Status Always Open Image: Dirac Pattern Status Always Open Image: Dirac Always Open Image: Dirac Image: Dirac Image: Dirac Ima		Event	•		Advance Colors		2						
Image: Registration Preset Status Atways Open Image: Registration Patron Status Atways Open Patron Status Atways Open Autor Scan Status Atways Open		& PTZ											
Image: System Patrol Status Aways Open Patren Status Aways Open Auto Scan Status Aways Open		📾 LPR	,										
Pattern Status Always Open ~ Auto Scan Status Always Open ~		@ System	,										
Auto Scan Status Always Open ~													
OVER 1													
				Others				1					
									54	100			

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]

Mil	esight Network C	Camera	-								🕀 English 🛩	💄 admin 🛩
	📇 Media		Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Aulo Tracking	Config Clear	Status		
۲	Network	>					1					
۲	E Storage		Basic				,					
	Event	•	PTZ OSD Others				•					
ø	रू एगट		Power Off Memory									
	📾 LPR	,	Set Resume Time	Disabled		2						
	@ System	•	Dehumidifying									
			Fan Working Mode	General		×.						
								Sar	vo			

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.
Dehumidifying	 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 day. Enhancement: The fans are turned on from 5pm to 7am every day. Constant: The fans work 24 hours a day.

Auto Home

Mile	esight Network Ca	amera	M.									e	€ English v	💄 admin 🛩
	📥 Media		Basic	Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Aulo Tracking	Config Clear	Status			
•	Network	?			/		-	Enable						
\odot	B Storage			/			Color.		5		s (5-270s)			
	S Event	•			4			Auto Home Mode		-				
ø	STPT 2		- 19		- Anna	FOR .		Auto Home Mode Number	Current Locatio		Call			
	@ LPR	,				(Transferred)	5	Save						
	🛞 System	•					5							

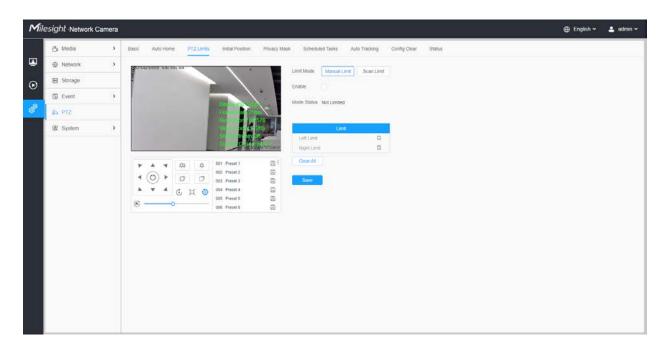
Auto Home allows the PTZ camera to return to a predefined Home Position automatically after a period of latency time. Check the checkbox to enable the Auto Home mode.

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.

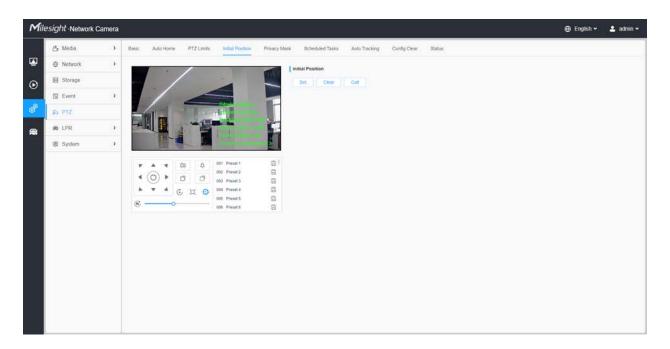
• Scan Limit:

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.

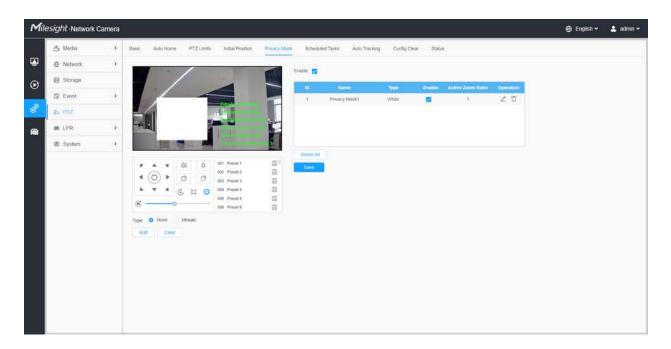
Step2: Click Set to save the position as the Initial Position.

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 (Camera											🕀 English 🛩	💄 admin 🛩
	📇 Media	>	Basic Auto Home	PTZ Limits	Initial Position	Privacy Mass	Scheduk	d Tasks Auto Track	ing Config Cle	ar Statu	6			
•	Network	>		/	-	-	Enable 🛃							
\odot	E Storage		- /				10	Name	Type	Enable	Active Zoom Ratio	Operation		
	S Event	•				-	1	Privacy Mask1	White		1	20		
ø	IS PTZ			1.14										
	📾 LPR	>			Transfer Street of Street	5								
	🕼 System	•	Ell and	-		3	Delete Ait							
					11 Preset 1 2 Preset 2 3 Preset 3 4 Preset 4 6 Preset 6 6 Preset 6		Save	ĺ						

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	for the privacy areas, there are two types available: Mask and Mosaic.								
Add	Drew an privacy area o	w 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 C	amera		🕀 English 🛩	💄 admin 🗸
	📥 Media	>	Basic Auto Home PTZ Limits Initial Position Privacy Mask Scheduled Tasks Auto Tracking Config Clear Status		
•	Network	>	Evable 🗾		
\odot	B Storage		Schedule Settings		
	S Event	•	8 2 4 8 9 10 12 14 18 18 20 22 24		
ø	S PTZ		Sin Close		
	(A) LPR	,	Mon Auto Scan Preset Tue Partol		
	@ System	•	Wed Pattern		
			Tra Fri Sat. Belect AB Crear AB Crear AB Latency Time 0 s (5-7206) Bare		

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

lesight	Network Came	era								⊕ English ~	💄 admin 🗸
в	Media	>	Basic Auto Home	PT2 Limits	Initial Position	Privacy Mask	Scheduled Tasks	Config Clear	Status		
e	Network	>	Config Clear								
8	Storage										
	Event	•	🛃 All	All Patrois		All Patients					
6	PTZ		Z Alt Auto Homes		ali s	cheduled Tasks					
@	LPR	>	All Privacy Masks	Initial Positio	n						
8	System System Setting Security Logs Maintenance	×	Clear								

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.

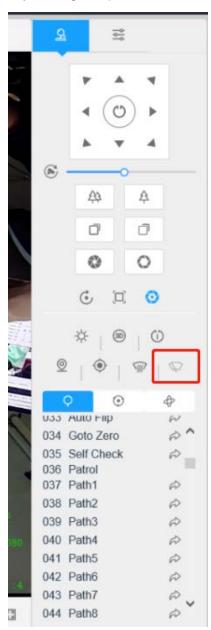
ilesight ·	Network Ca	mera	K									🕀 English 🛩	💄 admin 🕯
👌 Me Via		~	Basic Auto	o Home PT	Z Limits Initial Position	Privacy Mask	Scheduled Tasks	Aulo Tracking	Config Clear	R9485	Status		
lina			Status Info										
Aud	dio		Protocol	Pelco-D	× .								
🕀 Net	twork	•	Baudrate	9600	×.								
😫 Sto	orage		Data Bit	<i>R</i> .	×								
🖾 Evi	ent	>	Stop Bit	t									
A PT.	z		Parity	None	81								
@ Sys	stem	,	Flow Control	None									
			PTZ Address										
			Save	2									

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.

Mil	esight Network (Camera											🌐 English 👻	🛓 admin -
	🖉 Local		Basic Auto Home	PTZ Limits	Initial Position	Privacy Mask	Scheduled Tasks	Auto Tracking	Config Clear	R5485	Wper	Status		
۲	🛆 Modia	>	Wiper Settings			1								
۲	Notwork	3	Auto Wiper	On	<u>8</u>									
	Storage		Save											
ď	🔄 Event	,												
	A 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.

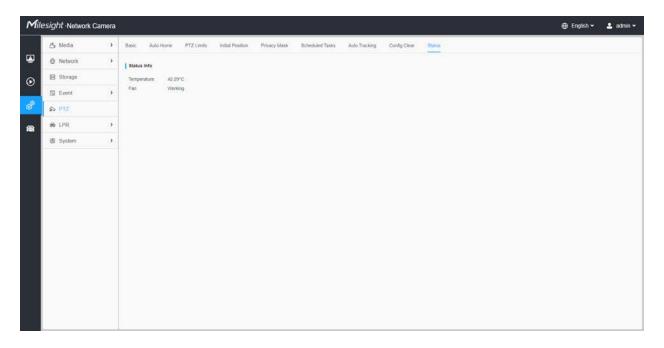


📑 Note:

- 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.



3.7.5 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.

Milesight Network Camera 🌐 English 🖌 🔒 admin A Media Advanced List Management List Event Traffic Detection Evider Enable LPR \odot S Event 🔊 LPR age Post Setting de Settino Add Ciear

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.						
Effective Region (Only for PTZ series)	Normal: configure the LPR detection regions for the current area. Advanced: configure different LPR detection regions for different PTZ presets(Only support Preset 1~4 so far).						

<u>General</u>

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.

Enable LPR			
Country / Region	Europe	~	
Effective Region	• Normal O Advanced		
Image Settings			~
Enable LPR Image Mode	e 🔽 (j)		
Level	4		
20101	4		
Detection Settings	4		>
	·		>
Detection Settings	·		

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.

Detection Settings		U.
Detection Region (j)		
ID	Name	Operation
1	ROI_1	2 🖬
Delete All		
Detection Settings		
Detection Mode	O Plate Priority • Vehicle	Priority (j)
Detection Trigger	Always	×
Repeat Plate Checktime	0 ms	✓ (0-60000)
License Plate Serial Format	Edit	
Attributes Identification	✓ All	
	🗸 Plate Color 🛛 🗸 Veh	icle Type
	Vehicle Color 🛛 🗸 Dete	ection Region
	✓ Direction ✓ Cou	ntry / Region
LPR Message Post Settings		>
Schedule Settings		>
Save		

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

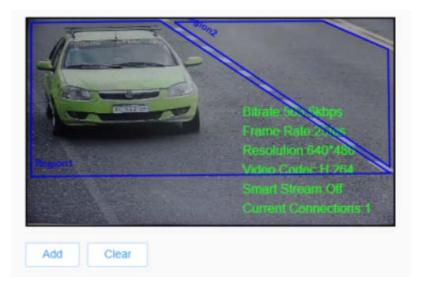


Table 125. Description of the buttons

Parameters	F	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 🖬					
	2	ROI_2	2 🖬					
	Note: Only license p	lates larger than 150 pixel	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 126. Description of the buttons

Parameters	Function Introduction
	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
Detection Mode	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. Pote: It supports up to 10 license plate characters.
Attributes Identification	 Check Plate Color, Vehicle Type, Vehicle Color, Detection Region, Direction, Country/Region(Only for LPR2 and LPR_EU), orAll to enable Attributes Identification, it will display the corresponding information on the Smart Search interface. Vehicle Type: Car, SUV, Van, Bus, Forklift, Excavator, Tow truck, Truck, Fire engine, Ambulance, Police car, Motorbike, Bicycle, E-Bike and Other Vehicle Color: Black, White, Gray, Red, Yellow, Green and Blue Plate Color: Black, White, Red, Yellow, Green and Blue

Step5: Set LPR Message Post Settings.

Enable LPR		
Country / Region	Australia	
Image Settings		>
Detection Settings		>
LPR Message Post Setting	gs	~
Enable LPR Message Po	ost 🔽	
Post Type	O HTTP O 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.

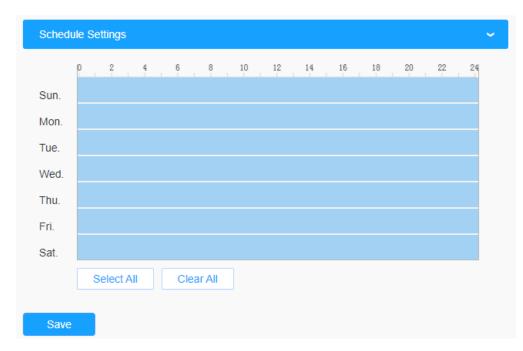


Table 128. Description of the buttons

Parameters	Function Introduction
Copy To × Sun. Mon. Ved. Ved. Thu. Fri. Sat.	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.

Mile	sight Network Ca	amera							🕀 English 🛩	💄 admin 🛩
	🖧 Media	,	General Advanced	List Management	List Event					
۲	Network	,	Snapshot OSD			3				
\odot	B Storage		Snapshot Cisci Snapshot File Name			,				
	Event	•								
đ	S PTZ									
	📾 LPR	*								
	Settings Smart Search									
	C System	<u>ر در ا</u>								
							Save			

[Snapshot OSD]

Image: Mode Image: Mode Image: Mode	s <i>ight</i> ·Network C	Camera					🕀 Engli
Storage Storage Exent PTZ Background Color Storage Storage <td>👌 Media</td> <td>,</td> <td>General Advance</td> <td>List Management</td> <td>List Event</td> <td></td> <td></td>	👌 Media	,	General Advance	List Management	List Event		
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Image: Speed Image: Spee	B Storage		CONTRACT.	Alleria			
PTZ Background Color Sedings smart Search SB System COD Position SAL Pisa Specific Second	Event	•		Medium			
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Settings smart Search OSD Pesiton Top OSD Information C AI C System OSD Information C AI Vehicle Plate C Peter Type C Peter Color Vehicle C Device ID C Device ID C Decicion Region C Device ID C Device ID C Device ID D Device ID </td <td></td> <td></td> <td>Background Cold</td> <td>6 🗉</td> <td></td> <td></td> <td></td>			Background Cold	6 🗉			
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Image: System Image: System<			OSD Infomation	All			
Vehicle Vehicle Color Image: Speed Image: Speed Image: Speed Image: Speed	@ System						
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Time 1 I Locresc Plate 1 I Plate Type 1 I Speed 1 I				Detection Regio	n 🛃 Device Name	Une Break Character	
Loonse Peter 1 3 3 Pate Type 1 3 3 Speed 1 3 3			hem	of File Name	spaces	Sorting	
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Speed I B			Lk	ense Plate	.1	e e	
			P	sate Type			
Unrection 1.7 2 2 2			3	Direction	1.V	S B	

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		
	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]

Mile	esight ∙Network	Camera						🕀 English 🛩	💄 admin 🛩
	📇 Media		General Advanced	List Management	List Event				
•	Network	>	1						
\odot	B Storage		Snapshot OSD				3		
	S Event	>	Snapsbot File Name						
ď	₽TZ		Separator	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ψ			
	LPR Setlings Smart Search G: System	•	Item of File Name	All Plate C Locense Plate Vehicle Type Speed Other C Time Detection Region	Plate Type Vehicle Color Position Device Name	Direction			
			there is a second s	of File Name		Sorting Ef Ek			
			LK LK	ense Plate		E E			
			Save						

Table 130. 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		
	—	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:

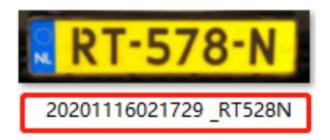
Full-snapshot Recognized successfully



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 287*</u>).

liles	s <i>ight</i> ·Network C	amera												⊕ E	nglish ~	💄 admi
	🖧 Media	>	General	Advanced	List Management	List Event	Traffic Detection									
	Network	>	Plate Type	All	 License 	Plate										Search
	Storage			License Plate		Plate Type		edule Rule		Valid Time	ID Card No.		Note		0.000	ation
	Event	>		MS2023		chedule Mode	a de la companya de La companya de la comp	Rule 1		17-19 - 2022-07-19	01012022				100 March 100	1
	📾 LPR	~		MS2022		White List				Always	20220101				1	đ
	Settings Smart Search			MS1111		White List			2022-0	17-19 - 2022-07-26	01202201				1	ū
	I System	>														
												Total 3	30/page v		1 3	Go to 1
			Rules	Edit								Add	Upload	E	Export	Delete Lis

 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						
	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.						
	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
	Click the "Edit" button to customize a rule.
Schedule Rules	Schedule Rule Settings × Rules 1 2 3 4 Sun. 5 3 4 4 4 6 9 10 12 14 16 10 22 24 5 8 10 12 14 16 10 22 24 5 8 10 12 14 16 10 22 24 5 8 10 12 14 16 10 22 24 5 8 10
	Add ×
	License Plate* DF53EU7 Type Schedule Mode ~
	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

ilesight Network	Camera			🕀 English 👻 💄 admi
👌 Media	•	General Advanced List Management List Event		
Network	,	List Type Brack List White List Visitor		
E Storage		Enable		
S Event	,		(m)	
€ PTZ		Schedule Settings Alarm Action	,	
LPR Settings Smart Search	•	Singe		
System	,			

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

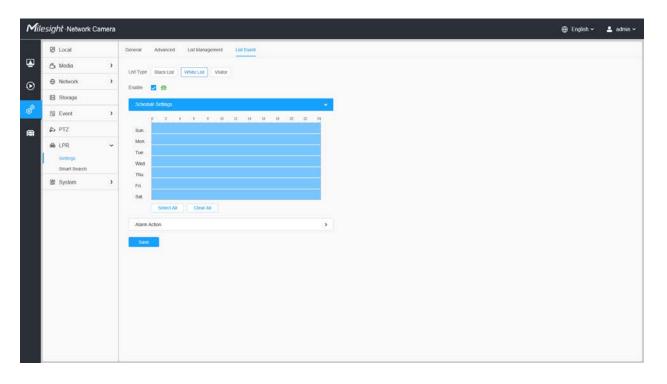
Step2: The corresponding alarm icon is triggered when the Black List/White List/Visitor vehicles passing by.

		⊕ English ∽	💄 ad
🗷 Local	General Advanced List Management List Event		
🖧 Media	List Type Black List White List Visitor		
Network			
Storage	Schrödele Schings		
Event			
S PTZ	Sun		
LPR Settings Smart Search	Mon		
🕲 System			
	Sat States All Chear All		

Black List:

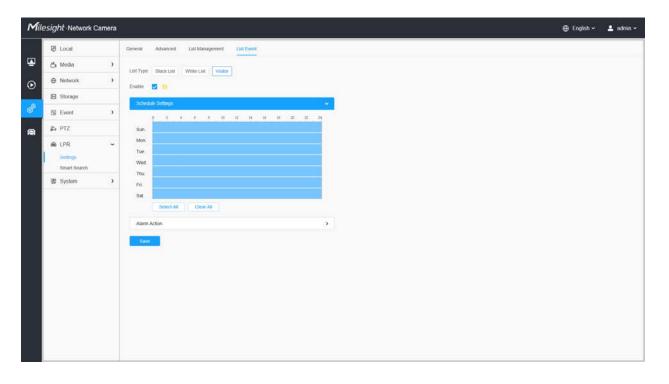
	Network Camera											🕀 English 🗸	1 at
Primary S	itream y HTTP y Bi	alanced 🐱 LPR	*									2	
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				1		Recognition 1		Plate Type Vehicle Col	Black List Plate Color Speed -	r White Vehicle Type Direction: Awa		003 Preset 004 Preset 005 Preset	4 5
No	License Plate	-		Plate Color	Vehicle Type			Vehicle Col	or Black Speed -		ау	003 Preset 004 Preset 005 Preset 006 Preset 007 Preset	4 5 6 7
No.		Snapshot	Plate Type Black List	Plate Color While	Vehicle Type Car	DOK6	9	Vehicle Col		Direction: Awa	operation	003 Preset 004 Preset 005 Preset 006 Preset 007 Preset 008 Preset	4 5 6 7 8
	License Plate	-	Plate Type	and the second second		DOK6	Speed D	Vehicle Col	or Black Speed -	Direction: Awa	ау	003 Preset 004 Preset 005 Preset 006 Preset 007 Preset 008 Preset 009 Preset 010 Preset	4 5 6 7 8 9
-14	License Plate : DOKES	Snapshot	Plate Type Black List	White	Car	DOK69 Vehicle Color Black	Speed D	Venicie Col lirection D Away	or Black Speed -	Direction: Awa Time 2022-04-21 23:25:42	operation Q 🗐	003 Preset 004 Preset 005 Preset 006 Preset 007 Preset 008 Preset 009 Preset 010 Preset 010 Preset	4 5 6 7 8 9 10 11
14 13	License Plate DOK65 BOJV11	Snapshot Science Science	Plate Type Black List Visitor	White White	Car Car	DOK69 Vehicle Color Black Black	Speed D	Venacie Col Pirection D Aavay Aavay	or Black Speed -	Directon: Awa Time 2022-04-21 23:25:42 2022-04-21 23:25:39	operation Q Q Q Q	003 Preset 004 Preset 005 Preset 006 Preset 007 Preset 008 Preset 009 Preset 010 Preset 010 Preset 011 Preset 012 Preset 013 Preset	4 5 6 7 8 9 10 11 12 13
14 13 12	License Plate DOK69 BOJV11 28422	Snapshot	Plate Type Black List Visitor Visitor	White White White	Car Car Car	DOK69 Vehicle Color Black Black Red	Speed D	Venicie Col Brection D Away Away Away	or Black Speed -	Direction: Awa Time 2022-04-21 23-25-42 2022-04-21 23-25-39 2022-04-21 23-25-23	operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q	003 Preset 004 Preset 005 Preset 006 Preset 007 Preset 009 Preset 009 Preset 010 Preset 010 Preset 011 Preset 013 Preset 014 Preset	4 5 6 7 8 9 10 11 12 13 14
14 13 12 11	License Plate DOK69 BOJV11 28K72 MG882	Snapshot Snapshot Snapshot Snapshot Snapshot Snapshot Snapshot	Plate Type Black List Visitor Visitor Visitor	White White White White	Car Car Car Bus	DOK69 Vehicle Color Black Black Red Blue	Speed D	Vehicle Col Direction D Away Away Away Away Away	or Black Speed -	Director: Awa Time 2022-04-21 23-25-42 2022-04-21 23-25-39 2022-04-21 23-25-23 2022-04-21 23-25-21	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	003 Preset 004 Preset 005 Preset 006 Preset 007 Preset 008 Preset 009 Preset 010 Preset 010 Preset 011 Preset 012 Preset 013 Preset	4 5 6 7 8 9 10 11 12 13 14 15
14 13 12 11 10	License Piale DOKKE BOJA11 29K22 MCBB7 DOCG1	Snapshot Notice Control Contro	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 D	Venicie Col irrection D Away Away Away Away Away Away	or Black Speed -	Direction: Awa Time 2022-04-21 23-25-42 2022-04-21 23-25-39 2022-04-21 23-25-21 2022-04-21 23-25-21 2022-04-21 23-25-19	ay Operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	003 Preset 004 Preset 005 Preset 006 Preset 006 Preset 009 Preset 010 Preset 010 Preset 011 Preset 013 Preset 014 Preset 015 Preset 016 Preset 017 Preset	4 5 6 7 8 9 10 11 12 13 14 15 16 17
14 13 12 11 10	License Plate DOKEE BOAT11 298022 MGBB7 DOCG1 FE301	Snapshot Robert	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 Blae White Black	Speed D	Venicie Col Rirection D Away Away Away Away Away Away Away	or Black Speed -	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 19 2022-04-21 23 25 17	Ny Constantion A Q III Q III Q III Q III Q III Q III Q III Q III	003 Preset 004 Preset 005 Preset 006 Preset 007 Preset 008 Preset 009 Preset 010 Preset 010 Preset 011 Preset 013 Preset 013 Preset 015 Preset 016 Preset 018 Preset 017 Preset	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
14 13 12 11 10	License Pinte DOKKS BOJVI 11 27842211 MGBD7 DOG01 FF201 DOG01	Snapshot Notice Control Contro	Plate Type Black List Visitor Visitor Visitor Visitor Visitor Visitor	White White White White White White White	Car Car Car Bus Car Car Car Car	DOK65 Vehicle Color Black Black Red Diae White Black Gray	Speed D	Venice Col Intection D Away Away Away Away Away Away Away	or Black Speed -	Direction: Away Time 2022-04-21 23.25.42 2022-04-21 23.25.42 2022-04-21 23.25.93 2022-04-21 23.25.19 2022-04-21 23.25.19 2022-04-21 23.25.19 2022-04-21 23.25.10 2022-04-21 23.25.10 2022-04-21 23.25.10 2022-04-21 23.25.10 2022-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10 2023-04-21 23.25.10	N Operation Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	003 Preset 004 Preset 005 Preset 006 Preset 007 Preset 008 Preset 009 Preset 010 Preset 010 Preset 011 Preset 013 Preset 013 Preset 015 Preset 016 Preset 018 Preset 017 Preset	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

White List:



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15 14	DOH1	(0.2008) (0.2008)	White List Black List	White White	Minibus Car	DOH1 Vehicle Color Red Black		Vehicle Direction Away Away	e Color Red Speed - Detection Region	Directon: Aw Time 2022-04-21 23:25:45 2022-04-21 23:25:42	operation Q () Q ()	011 Preset 002 Preset 003 Preset 004 Preset 006 Preset 007 Preset 008 Preset 009 Preset 009 Preset 010 Preset 010 Preset 010 Preset 011 Preset 013 Preset	© 1 2 2 3 3 4 4 5 6 6 7 7 8 9 9 10 11 11 12 13
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15 14 13 12 11	DOH1 DGM9 BOJV1 2BKZ MG88 DOCG FE30		White List Black List Visitor Visitor Visitor	White White White White White White White	Minibus Car Car Car Bus	DOH1 Vehicle Color Red Black Black Red Blas		Vehicle Direction Away Away Away Away Away	e Color Red Speed - Detection Region	Direction: Awa Time 2002 04-21 23 25 45 2002 04-21 23 25 42 2002 04-21 23 25 39 2002 04-21 23 25 31 2002 04-21 23 25 21 2002 04-21 23 25 19 2002 04-21 23 25 19	ay Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	01 Preset 002 Preset 003 Preset 004 Preset 005 Preset 006 Preset 007 Preset 007 Preset 008 Preset 009 Preset 010 Preset 010 Preset 010 Preset 011 Preset 012 Preset 013 Preset 014 Preset 015 Preset 016 Preset 016 Preset	© 1 2 3 4 4 5 6 6 7 8 9 9 10 11 11 12 13 14 15 16 17
15 14 13 12 11	DOH1 DGK85 BOJV1 28KZ MG88 DOCG		White List Black List Visitor Visitor Visitor Visitor	White White White White White	Minibus Car Car Car Bus Car	Vehicle Color Red Black Red Black Ubar White		Vehicle Direction Away Away Away Away Away Away	e Color Red Speed - Detection Region	Director: Awa Time 2022-04-21 23:25:45 2022-04-21 23:25:29 2022-04-21 23:25:21 2022-04-21 23:25:19	ay Q = Q Q = Q =	001 Preset 002 Preset 003 Preset 004 Preset 005 Preset 006 Preset 006 Preset 006 Preset 006 Preset 000 Preset 010 Preset 010 Preset 011 Preset 012 Preset 013 Preset 014 Preset 015 Preset 016 Preset 016 Preset	 1 1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19

Visitor:



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18 17 16 15	FE301 DOJOS WHVQZ	RES &	Visitor Visitor Visitor White List	Plate Color White White White White White	Car Car Car Minibus	FE30 Vehicle Color Black Gray Gray Red	Speed I	Vehicle C Direction I Away Away Away Away	olor Black Speed Detection Region	ciere White - Descent Appendix - Descent App	V Operation Q Q Q Q Q Q Q	001 Presel 1 002 Presel 2 003 Presel 2 004 Presel 4 005 Presel 4 006 Presel 6 006 Presel 6 007 Presel 7 008 Presel 8 009 Presel 9 010 Presel 11 011 Presel 11 012 Presel 12 013 Presel 12	• • •
18 17 16	FE301 DOJO3 WHVOZ	1 FILE 82	Visitor Visitor Visitor	Plate Color White White White	Car Car Car	FE30	Speed I	Vehicle C Direction 1 Away Away Away	olor Black Speed Detection Region	ater White ater White Time Director: Awar Time 2022-04-21 23 26 00 2022-04-21 23 25 07 2022-04-21 23 25 37	y Operation Q@ Q@ Q@	001 Presel 1 002 Presel 2 003 Presel 2 003 Presel 3 004 Presel 4 005 Presel 5 006 Presel 5 006 Presel 6 007 Presel 7 008 Presel 8 009 Presel 1 010 Presel 1 011 Presel 1 013 Presel 1 013 Presel 1	
10 17 16 15 14	FE301 DOJO3 WHVOZ DOH10 DOH10 DOK59	LES 2 Ventro Dans 2 Dock 1 Dock 1	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 I	Vehicle C Direction 1 Away Away Away Away Away Away	olor Black Speed Detection Region	Ser: White 2002 04-21 23 25 00 2002 04-21 23 25 00 2002 04-21 23 25 07 2002 04-21 25 07 2002 04-2	Y Operation Q Q Q Q Q Q Q Q Q Q Q Q	001 Present 1 002 Present 2 003 Present 3 004 Present 4 005 Present 6 006 Present 6 006 Present 6 006 Present 6 008 Present 1 010 Present 1 011 Present 11 012 Present 12 013 Present 12 013 Present 12 014 Present 11 015 Present 12 016 Present 16 016 Present 16 016 Present 16 017 Present 17	
10 17 16 15 14 13	FE301 DOJ031 WHV02 DOH10 DOK59 BOJV11	153030 (201700) (201700) (200770) (200770) (200770)	Visitor Visitor Visitor White Lat Black List Visitor	Plate Color White White White White White White	Car Car Car Minibus Car Car	FE30 Vehicle Color Black Gray Red Black Black	Speed I	Vehicle C Direction 1 Away Away Away Away Away Away Away	olor Black Speed Detection Region	ator: White - University of the second - University of t		001 Preset 1 002 Preset 2 003 Preset 3 004 Preset 4 005 Preset 6 006 Preset 6 007 Preset 6 009 Preset 6 009 Preset 9 010 Preset 1 011 Preset 11 012 Preset 11 013 Preset 13 014 Preset 11 015 Preset 15	© 0 1 2 3 4 5 7 7 8

[Schedule Settings]

Step3: Schedule Settings.

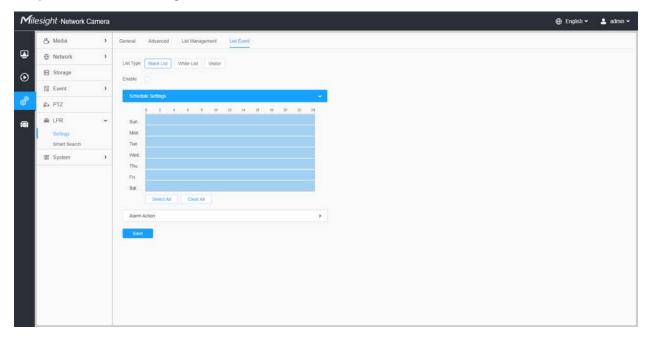


Table 132. Description of the buttons

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.

Mile	es <i>ight</i> ·Network Ca	amera		🕀 English 🗸	💄 admin 🛩
	👌 Media	>	General Advanced List Management List Event		
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\odot	E Storage		Entitle		
	S Event	•	Schedule Settings		
ø	🔊 PTZ		Alam Action		
•	A LPR Settings Smart Search System	•	Record > Brapshot > External Output > Play Audio (Presented the Audot Speciest) > Alarm to SIP Phone (Presented the Speciest) > 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.

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Storage			2 0 4						
Event	>								
₽TZ		Alarm Trigger			~				
LPR Settings	~	No Plates	5						
Smart Search		Attributes							
System	,	Plate Color	write ap + 4	*					
		Vehicle Type	Care (+3)	÷					
		Vehicle Color	Back (+ 5	×.					
		Detection Region	1.8 (+2)	<i>u</i>					
		Direction	Approach @	~					
		Note: Please enable /	Attribute Identification first. 1	The logic between the attributes i	N AND				
		Schedule Settings			,				
		Alarm Action			>				
		Save							
	l								

Settings steps are shown as follows:

Step1: Select an event rule and enable it.

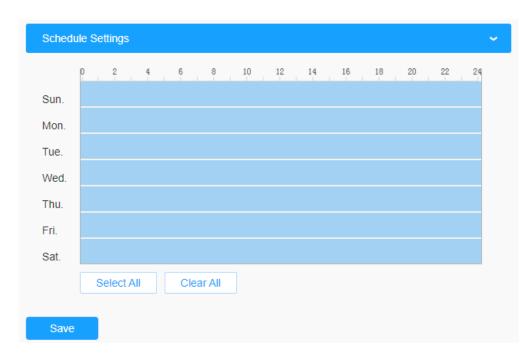
Note: Up to 4 attribute event rules can be set.

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

Note:

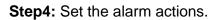
- Please enable Attribute Identification first.
- The logic between No plates and Attributes is OR. For example, if I check both No Plates and Attributes, whether "No plates" or other attributes are recognized, the alarm event will be triggered.
- The logic between the attributes is AND. For example, 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.





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.

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	🔥 Media	>	General Advance	d List Manaj	gement Lis	Event Athri	utes Event Evid	denk	1970) 1982		
	Network	>	Enable 🛃								
\odot	E Storage		Evidence Camera								
	🗐 Event	•	10	Name	Enable	Status	Operation				
đ	🔊 PTZ		1	camera A		0	20				
	(R) LPR	~	2	camera B		0	20				
	Settings		Add								
	Smart Search	,	Event Settings 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*	•••••	0
Address*	192.169.69.162	0
	Save Cancel	

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

idence Camera	as			
ID	Name	Enable	Status	Operation
1	camera A		Ø	2 🖞
2	camera B	~	v	2 🖬

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					

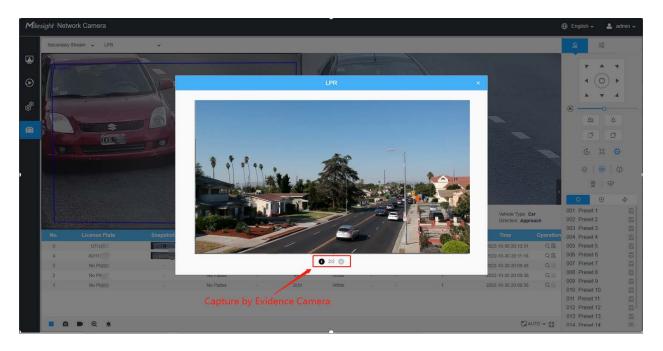
Parameters	Function Introduction
2	Edit the evidence camera.
Û	Delete the evidence camera.

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.

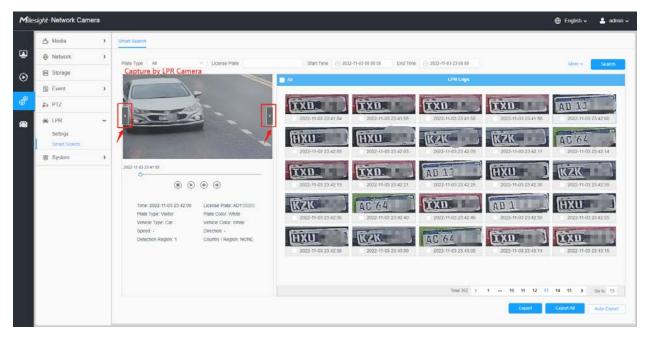
Event Settings	~
Capture Conditions Always	

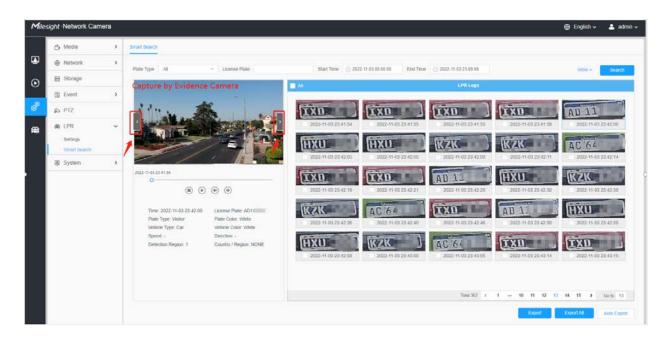
Step5: After completing the above settings, the evidence camera will work together to capture the scene when the LPR camera captures the license plate, which can be viewed on the Live View interface of LPR Mode.





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.

Rote:

- 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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	優 Local		General Advan	ced List Ma	nagement Lis	t Event Traffic	Detection		/			
9	🐴 Modia	>		The second second	100 To 200	1181.24	Enable 💐	0				
>	Network	>	H	1	1		Sensitivity 4 -					
	E Storage		-		Transa and	11						
2	S Event	>	C.		a hand		Road and Installation					
	(A) LPR	~				a (intelline	a grant a state of the state of					
" I	Settings		and an	and after	- Serie			2	*			
	Smart Search					We share and	Width of Each Lane	4	m (3-6)			
	C System	,	90 %	10			Installation Informat	ion				
			80-				Installation Location	0	m (-12-12)			
			70-				Installation Height		m (2~7)			
			60 -				Radar Till Angel		* (0~15)			
			50 -				Camera Direction	0	* (-30-30)			
			40 -				Radar Test	Start				
			20-				Detection Settings			2		
			10-	Lane1	Lane2		Schedule Settings			>		
			0				Traffic information			*		
			• •			(1)	Alarm Action			3		
							Save					
							. 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 ③ Sensitivity 4 Guide ×	
90 Installation Suggestions 90 Explanation of Paral eters 90 Installation Location 90 When installed in the middle of the road, enter 0. Left bias is negative and right bias is positive. 0 Camera Direction 00 When parallel to the road, enter 0. Turn right is positive, turn left is negative. 0 Trigger Distance. 70 Trigger Distance.	
60- 50- 40- 30- 20- 10- Lar 0 - Lar 0 - Lar 0 - 10- Lar 0 - 10- Lar 0 - 10- 10- Lar 0 - 10- 10- 10- 10- 10- 10- 10- 10	
Image: Save	

Step2: Fill in the road and installation inform	mation as shown below.
---	------------------------

Table 137	Description	of the buttons
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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.				

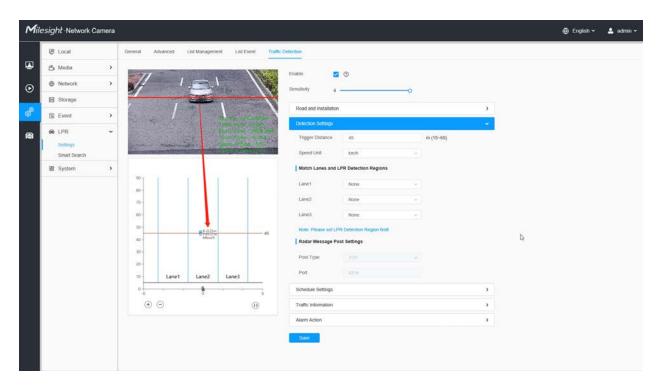
Step3: Set Detection Settings.

 Table 138. Description of the buttons

Parameters	Function Introduction
Trigger Distance	<text><text><image/><image/></text></text>
	Ear the Leaving Vehicles:
	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.

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	Event	•			
0	🙉 LPR	~	Road and Installation		
	Settings Smart Search		Detection Settings		
	(E System	3	00 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.

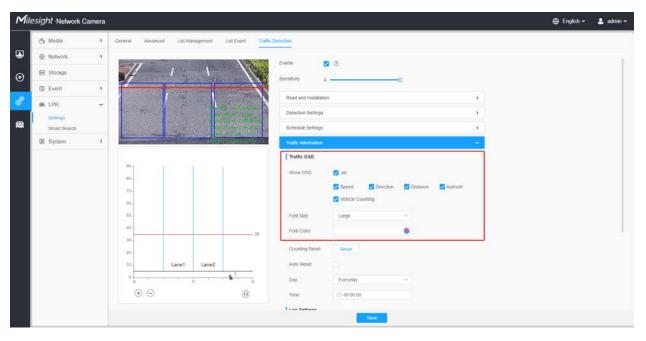
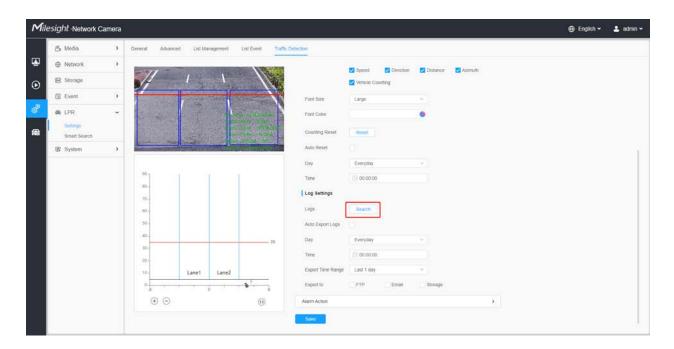


Table 139. Description of the buttons

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 Logs	S		
tart Time 🕒 2022-06-1	2 00:00:00 End Time	e 🕒 2022-06-13 2	3:59:59		Search
Time	Speed	Direction	Distance	Azimuth	Vehicle Counting
2022-06-13 14:06:05	i 3km/h	Approach	34m	-14°	24140
2022-06-13 14:05:18	3 4km/h	Approach	34m	-10°	24139
2022-06-13 14:04:16	5 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	i 13km/h	Approach	34m	-7°	24135
	28km/h	Approach	34m	-11°	24134
2022-06-13 14:02:04					
2022-06-13 14:02:04	0.0 Less /b	Annrach	0.4m	440	0.44.00

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

Mile	sight Network Ca	mera				🕀 English 🗸	💄 admin 🗸
	🖧 Media	э	General Advanced List Management List Event Traffic D	etection			
•	Network	э			Speed Direction 🖸 Distance 💟 Azimuth		
\odot	E Storage				Vehicle Counting		
	S Event			Font Size	Large : V		
ð	(A) LPR	•		Font Color	•		
	Settings Smart Search		a final state of	Counting Reset	Repet		
	System	5	Les adjess and the second	Auto Reset			
				Day	Everyday v		
			50	Time	© 00.00:00		
			90 - 70 -	Log Settings	1		
			60 -	Logs	Search		
			50-	Auto Export Logs			
			4035	Day	Everyday v		
			10-	Time	© 00-00.00		
			20- 10- Lane1 Lane2	Export Time Range	Last 1 day v		
			0 5 S	Export to	V FTP Email Storage		
			÷ • • •	Alarm Action			
					n.)		
				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	e <i>sight</i> •Network C	amera							🕀 English 🗸	💄 admin 🗸
	📇 Media		General Advanced	List Management	List Event Traffic	Detection				
	Network	>		1.4.7 0.01.	80000000011-28	Schedule Settings				
\odot	E Storage		Participation in	ny Affinant -171.		Traffic Information				
	Event	>	-	-		Alarm Action		-		
ď	📾 LPR			- Andrews		Traffic Alarm Threshold				
8	Settings Smart Search		7			Min. Speed Limit	kmitt			- 1
	System	>	1000			Max. Speed Limit 5	km/h			
			90-1			Count 9999				
			80.			Record				
			70 -			Snapshot	3			
			60 -			🛃 External Output	3			
			50-			Play Audio (Place anable the Audio Speaker.)				
			40		- 35	Alarm to SIP Phone (Please spon The SIP)				
			90-			HTTP Notification	3			
			20 -			OSD Blink (Prese chied: The Show OSD)	*			
			10-	Lane1 Lane2	· · · · · · · · · · · · · · · · · · ·	OSD Blink Time 3O	Reset			
			0	1 6 1	· • · · · · · · · · · · · · · · · · · ·					
			⊕ ⊝		0	Save				

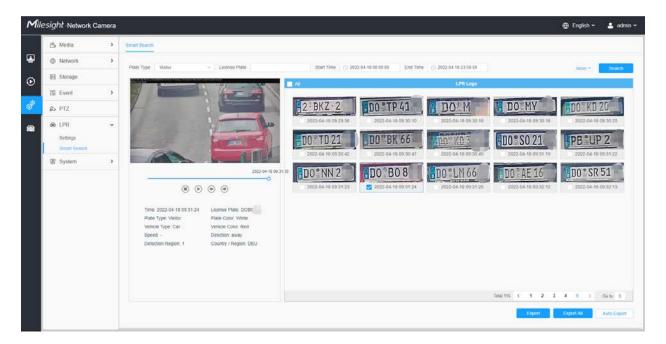
Send Email

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.

	y Date ~		
The Transferrer	day (1 message)	Network Camera Traffic Detection 4 199 2022-05-31 23:16:12	
All Unread Sy	ndy twork Camera Traffic Detection #DCA674	Now Syndy 109. To davidzhang.	2022-06-14 13:35 Hide Deta
 III Labeled Inilesight(davidzhang) Inbox Announcement 		From: Syndy: cymy diametry diametry and a second se	
© Draft G Sent 管 Trash 参 Spam 随 純低文は来 ▶ 図 Labeled	Ą	This is an automatically generated e-mail from your camera. DEVICE NAME: Network Camera IP ADORES: 192.166.3.5191 EVENT TME: 2022.05-33.2316:18 EVENT: TME: Detection Speed: 43km/h Direction: Away Vehicle Country: 199	
		Plate: 74	
Syndy Network Camera Traffic I			

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.

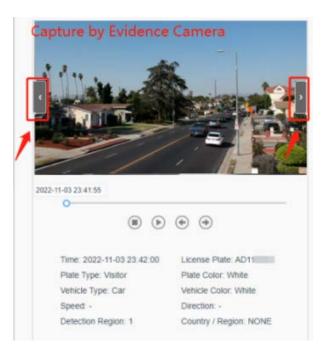
📑 Note:

- 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 :

All de la de	
	2022-04-18 09:31:30
	٠
Time: 2022-04-18 09:31:24	License Plate: DOB08
Plate Type: Visitor	Plate Color: White
Vehicle Type: Car	Vehicle Color: Red
Speed: -	Direction: away
Detection Region: 1	Country / Region: DEU

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.

	Ехр	ort	×
Export File	Plate List Vi Plate List(With pictu	ideo Picture res)	
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	

3.7.6 System

System Setting

System info

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

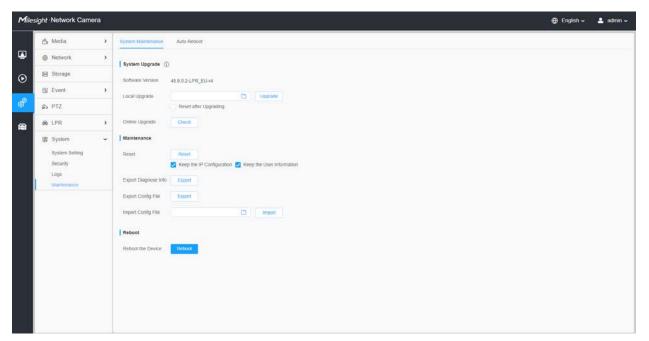


Table 140. Description of the buttons

Parameters	Function Introduction		
Device Name	The device name can be customized.		
Product Model	he 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.		

Parameters	Function Introduction			
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.			

Date&Time

Mile	esight ·Network Ca	mera	<i></i>						🕀 English 🛩	💄 admin 🗸
	📇 Media	>	System Info Date51	Time						
•	Network	>	Current System Time							
\odot	E Storage		Date :	27/03/2022						
	S Event	•	Time	15:33:04						
ď	E 10T	•	Set the System Time							
	System	~	Time Zone	(UTC+08:00) Chir	na(Beijing, Ho 🗸					
	System Setting Security		Daylight Saving Time	Disabled	×					
	Logs		Synchronize Mode	NTP server	Manual	Synchronize with computer time				
	Maintenance		Time	3 2022-03-27 15	33:03					
			Save							

Table 141. Description of the buttons

Parameters	Function Introduction			
Current System Time	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.

Mile	Milesight Network Camera					
	📸 Media	>	Wiegand			
(Network	>	Enable 🗸 🛈			
\odot	🗄 Storage		Protocol Wiegand 26bit			
	Event	>	Save			
Ô	🙊 LPR	>				
R	ছ 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.

User

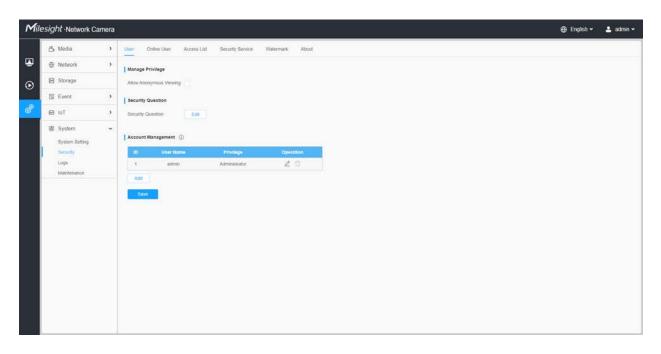


Table 142. Description of the buttons

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

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	tt's your father's name?						
Answer1*							
Security Question2 What	tt's your father's name?						
Answer2*							
Security Question3 What	tt's your father's name?						
Answer3*							
Save	Cancel						
There are twelve default questions b 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						
	Click "Edit" button to set three securit forget the password, you can click "F password by answering three securit Security Q Admin Password* Security Question1 What Answer1* Security Question2 What Security Question3 What Answer2* Security Question3 What Answer3* Save There are twelve default questions b questions. What's your father's name? What's your favorite sport? What's your mobile number? What's your favorite book? What's your favorite book? What's your favorite game?						

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. For the default admin account, you can only change the password, and it cannot be deleted. 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.

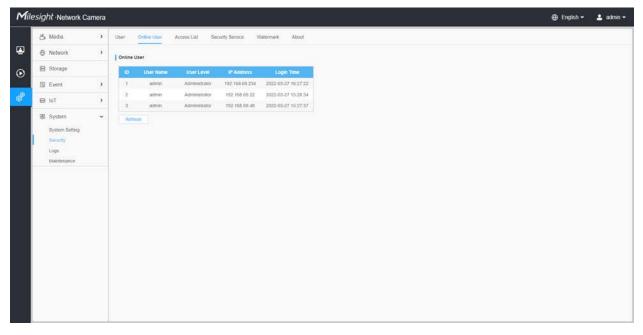


Table 143. Description of the buttons

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

Miles	ight Network C	Camera	r			
	📇 Media	>	User Online User	Access List	Security Service	Walermark About
9	Network	,	General Settings			
Ð	B Storage		Max. Number of Connection	10		9
	S Event	•	Access List			
et i	e loT	•	Enable Access List Filtering			
	System	*	Filter Type	Alon	K-Deny	
l.	System Setting Security		ID Rule		Address	Operation
ľ	Logs				No Data	
	Maintenance		Add			
			Save			

Table 144. 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	sight Network Ca	amera	r					🕀 English 🛩	💄 admin 🛩
	📇 Media)	User Online User	Access List	Security Service	Walermark	About		
•	Network	,	SSH Settings						
\odot	B Storage		Enable 🔽						
	Event	•	SSH Port 6022						
ø	₽ 101	•	Save -						
	System Setting System Setting Socially Cogs Maintenance	•							

Table 145. 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

filesight Network Ca	amera		🕀 English 🛩	💄 admin
📇 Media	,	User Online User Access List Security Service Watermark About		
Network	,	Watermark Settings		
B Storage		Enable		
S Event	•	Watermark String III* CAVERUS		
E 10T	•	Save		
GP System System Setting Sourty 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>

Miles	sigi	ht •Network Ca	amera							🕀 English 🛩	💄 admin 🛩
	6	Media	>	User	Online User	Access List	Security Service	Watermark	About		
۲	۲	Network	?	Op	en Source Software	Licenses					
\odot	8	Storage			View Lidenses						
	G	Event	•								
đ	8	IoT	•								
		System Setting Security Logs Mantenance	~								

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	>	Main Type A8 Types	 Sub Type All Types 	- Start Time 🗇 2022-	13.27.00.05.05 End Time	2022-03-27 23 59 59		Sea
E Storage			and the second second second	and services in a service of	teoserico (
S Event		Time	Main Type	Sub Type	Param	User		Detail
Cit Exert	180	2022-03-27 16:27:22	Operation	RTSP Session Start			192.168.69.234	RTSP
e loī	>	2022-03-27 16:27:22	Operation	RTSP Session Start	23		192 168 69 234	RTSP
System	~	2022-63-27 16:27:22	Operation	Video Param Set Remotely	1		192.158.69.234	Main(bit rate change.)
		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	15	admin	192.168.69.22	HTTP
		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	10	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	5	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	15		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	18	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	82		192.168.69.48	RTSP
					Ţ	otal 1122 30/paige - 1	1 2 3 4 5 6	38 > Go to

Table 146. 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

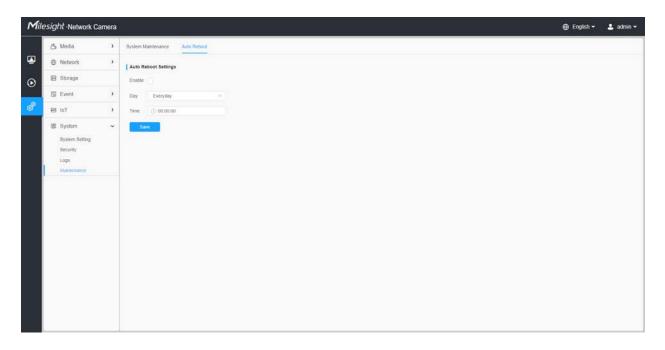
Milesig	ght Network Came	era		🕀 English 🗸	🚢 admin 🗸
	📇 Media	>	System Maintenance Auto Reboot		
•	Network	>	System Upgrade ①		
•	Storage		Software Version 45.8.0.2.LPR_EU.r4		
	뎡 Event	>	Local Upgrade		
s -	S PTZ		Reset after Upgrading		
a	(R) LPR	,	Online Upgrade Check		
	@ System	~	Maintenance		
	System Setting Security Logs Maintenance		Reset Reset		
			Export Contig File Export		
			Rebot Rebot		

Table 147. 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 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
	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: Provide the formation of the file format is ".txt". Export Config File: Click this button and a window will pop up as shown below: File Encryption Configuration X Input the encryption password Confirm
Maintenance	Save Cancel You need to enter and confirm password again, then click save button to export configuration file. Import Config File: Click this button, then a window will pop up and you can click "OK" to update the configuration. It will pop up a window to prompt "Input the password of config file", then enter password and click save button to import configuration file.
	File Encryption Configuration × Input the encryption password Save Cancel Save Note: Export and import the same configuration file. Password must be the same.

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

Milesight AI Outdoor Parking Management Pro Bullet Plus Camera is designed for outdoor parking management. High-accuracy outdoor parking space detection based on AI algorithm enables simultaneous detection and management of up to 100 parking spaces. Besides, excellent scene adaptability realizes 24/7 parking management surveillance to help guide parking for more efficient and intelligent parking management. Make parking easy and smart!

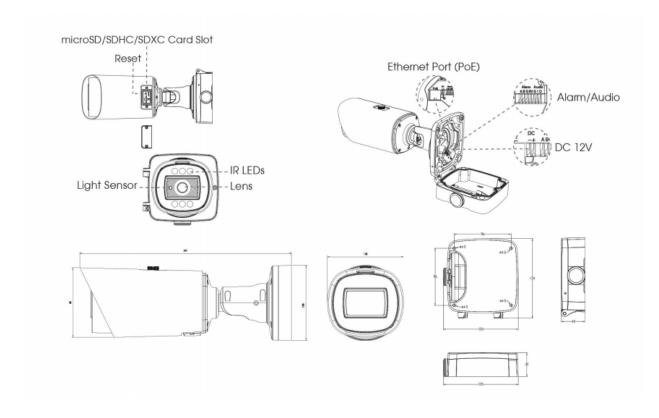
4.1.2 Related Product

Table 148.

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

High-accuracy outdoor parking space detection based on AI algorithm can realize simultaneous detection and management of up to 100 parking spaces with up to 98% detection accuracy, which 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.

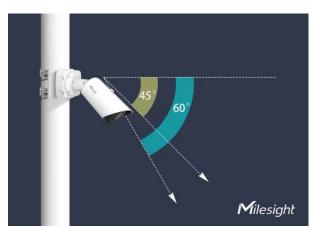
Flexible Configuration

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.

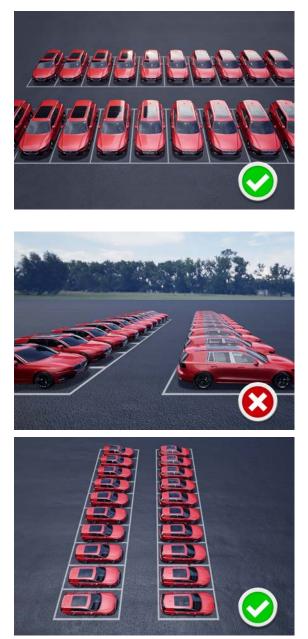
4.1.5 Installation Guide

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:

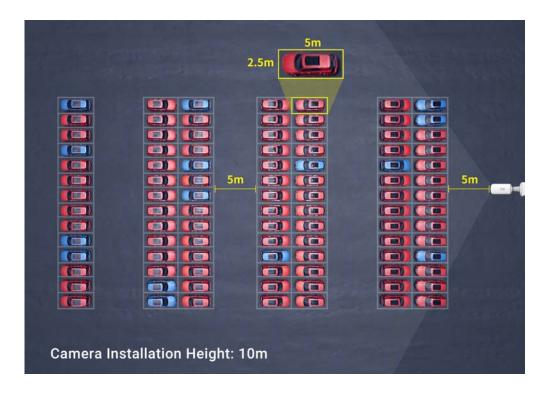


Table 149. Parking Space Information

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

Table 150. Camera Information

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

• Example 2:

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

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

Table 151. Parking Space Information

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

Table 152. 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

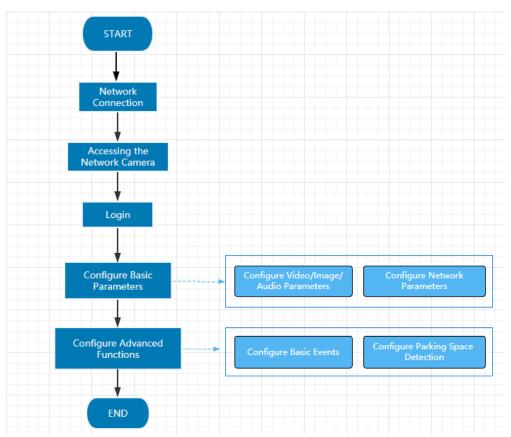
Table 153.

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/M 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.

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 11)

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 12)
Configure Basic Parameters	After login the camera, you can adjust the video/image/audio/network parameters as needed.	<u>Video (page 33)</u> Image (page 36)
Configure Advanced Functions	Configure the Basic Event and Parking Space Detection.	Motion Detection (page 82) Parking Management (page 375)

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.

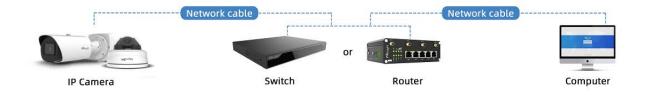


IP Camera

Computer

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;

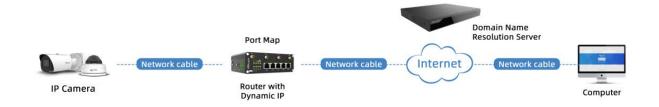
Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;

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;

7	-					PROV						
	No.	Device Name 🔻	Status	MAC	Ib	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
2	9	Network Camera	Active	1C:C3:16:27:68:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373-PB	2022-03-11 20:	41.7.0.79	0
7	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			0
3	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:		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-Alo	0
7	13	Network Camera	Active	1C:C3:16:24:09:D2	192.168.69.96	80	255.255.240.0	192.168.69.1	MS-C2964-FPB	2022-01-09 17:	40.7.0.79-r7	0
	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
1	15	Network Camera	Active	1C:C3:16:2A:06:91	192.168.69.98	80	255.255.255.0	192.168.69.1	MS-C5367-X23PC	2022-03-15 09:	45.7.0.79-#30	0
-	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
2	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
2	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
1/3) (pe		Device Name: Netw	vork Came	era) 12 (192.168.6	9.204 Port	80) Netmasko 🤅	255.255.255.0) Gatewaya 💽	2.168.69 .1	DNS: 🖲 😹 J	i .8 Modify

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

Select single camera:

C		PC Tools					0—	9			A Cadmin	
1		°C 100is									Q (Search h	
	No.	Device Name 🔺	Status	MAC	1P	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
-	18	Network Camera	Active	1C:C3:16:28:5F: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
5	19	Network Camera	Active	10:03:16:28:04:09	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
-	20	Network Camera	Active	10:03:16:22:08:53	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
	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
2	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:	43.7.0.79-12	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-Ь	0
2	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-HEP8	2022-03-06 10:	43.7.0.79-r12	0
5	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
/38 per		Device Names (Net	work Came	m 1≥ 192.168.6	9.204) Para	(80) Netmaska (255.255.255.0	Gantewayr 😰	2.168.69 .1	DN55 <mark>8 .8 .8</mark> e List 🗙 N	
										🔳) Sa	~e 🙁)c	ilear

Select multiple cameras:

No. Device Name Status MAC IP Port Netmask Gateway Model Rut-up Time Version Webpag 9 Network Camera Active 1C:C3:16:21:01:C4 192.168.2019 80 255.255.255.0 192.168.21 MS-C2962	-89		Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage	
10 Network Camera Active 1C.C3.16.27.68.94 192.168.20.19 80 255.255.55. 192.168.0.1 MS C5373 202.03.11 21 41.70.79 0 1 Network Camera Active 1C.C3.16.27.68.94 192.168.20.19 80 255.255.25.0 192.168.01 MS C5373 202.03.11 20 41.70.79 0 2 Network Camera Active 1C.C3.16.27.68.94 192.168.69.61 MS C5375 202.03.15 11 45.70.80-10 0 3 Network Camera Active 1C.C3.16.27.498.26 192.168.69.1 0 255.255.50 192.168.69.1 MS C206 202.03.15 11 45.80.1.41.0 0 3 Network Camera Active 1C.C3.16.27.498.26 192.168.69.1 0 255.255.50 192.168.69.1 MS C206 202.03.15 11 45.80.1.41.0 0 4 Network Camera Active 1C.C3.16.24.69.902 192.168.69.1 MS C236 202.02.03.15 11 47.0.79.470 0 <td></td> <td>10000</td> <td></td> <td></td> <td>11997596⁻¹.</td> <td>20.74</td> <td></td> <td>and a constrained as the</td> <td></td> <td></td> <td>and the second se</td> <td></td> <td></td> <td>-</td>		10000			11997596 ⁻¹ .	20.74		and a constrained as the			and the second se			-
1 Network Camera Active 1C.C3162A0733 192.168.69.0 60 255.255.25.0 192.168.69.1 MS-C39672022-03-1514457.0.80-LP 0 2 Network Camera Active 1C.C3162A0733 192.168.69.6 80 255.255.25.0 192.168.69.1 MS-C39672022-03-1514457.0.80-LP 0 3 Network Camera Active 1C.C3162A09B26 192.168.69.7 80 255.255.25.0 192.168.69.1 MS-C29632022-03-131145.8.0.1Alo 0 4 Network Camera Active 1C.C3162A09A22 192.168.69.7 80 255.255.25.0 192.168.69.1 MS-C29642022-03-131145.8.0.1Alo 0 4 Network Camera Active 1C.C3162A09A22 192.168.69.7 80 255.255.25.0 192.168.69.1 MS-C29642022-03-19145.8.0.1Alo 0 5 Network Camera Active 1C.C3162A0691 192.168.69.7 80 255.255.25.0 192.168.69.1 MS-C33752022-03-141.841.7.0.76-r3 0 5 Network Camera Active 1C.C3162A0691 192.168.69.1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
1 2 Network Camera Active 1CC33620:01:043 192:168.69.6 80 255.255.20 192:168.69.1 MS-C2963 2022-03-03 13 43.7.0.79-1.P 0 3 Network Camera Active 1CC3162:04:09:02 192:168.69.7 80 255.255.20 192:168.69.1 MS-C2963 2022-03-03 13 43.7.0.79-1.P 0 4 Network Camera Active 1CC3162:04:09:02 192:168.69.7 80 255.255.20 192:168.69.1 MS-C2964 2022-03-03 13 40.7.0.79-7.79 0 5 Network Camera Active 1CC3162:04:09:40 192:168.69.7 80 255.255.250 192:168.69.1 MS-C2964 2022-01-09 17 40.70.79-r7 0 6 Network Camera Active 1CC3162:04:09:19 192:168.69.1 MS-C5375														
3 Network Camera Active 1CC3:16:2A:98:26 192:168:69:7 80 255:255:0 192:168:69:1 M5:C8266 202:03:15 11 45:0.1 Alo 0 4 Network Camera Active 1CC3:16:2A:99:20 192:168:69:7 80 255:255:00 192:168:69:1 M5:C8266 202:03:15 11 45:0.1 Alo 0 5 Network Camera Active 1CC3:16:2A:69:04 192:168:69:1 M5:C5375 202:03:14 18 41.70.76:r3 0 6 Network Camera Active 1CC3:16:2A:06:91 192:168:69:1 M5:C5375 202:03:14 18 41.70.76:r3 0 6 Network Camera Active 1CC3:16:2A:06:91 192:168:69:1 M5:C5375 202:03:14 18 45.70.79-r30 0 7 Network Camera Active 1CC3:16:2A:06:90 192:168:69:1 192:168:69:1 VMI:2MPX 202:03:11 21 45.70.79-r30 0 7 Network Camera Active 1CC3:16:2A:06:90 192:168:69:1 192:168:69:1 VMI:2MPX 202:03:11 21		2											-	
4 Network Camera Active 1CC3:16:24:09:D2 192:168:69:9 80 255:255:20:0 192:168:69:1 MS-C2964 202:01-09 17 40.70.79-77 5 5 Network Camera Active 1CC3:16:24:60:A8 192:168:69:0 MS-C2964 202:01-09 17 40.70.79-77 2 6 Network Camera Active 1CC3:16:24:60:69:1 192:168:69:1 MS-C5375 202:03:14 18 41.70.76-73 2 6 Network Camera Active 1CC3:16:24:06:91 192:168:69:1 MS-C5367 202:03:14 18 45.70.79-730 2 7 Network Camera Active 1CC3:16:24:06:69 192:168:69:1 192:168:69:1 VMI-2MPX 202:03:11 21 45.70.79-730 2 7 Network Camera Active 1CC3:16:24:06:69 192:168:69:1 192:168:69:1 VMI-2MPX 202:03:11 21 45.70.79-730 2		3												
5 Network Camera Active 1CC3:16:24:60:AA 192:168.69:7 80 255.255.50 192:168.69:1 MS: C5375		4												
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 45.70.79-r30 0 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 2022-03-15 09 45.70.79-r30 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		
	1	.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		
18 Network Camera Active 1C:C3:16:24:60:67 192.168.69.125 80 255.255.0 192.168.69.1 MS-C2975 2022-03-10 20 40.70.79-77		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	
· · · · · · · · · · · · · · · · · · ·		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	
	-												0	_
/38 Same IP Start IP 192.168.69.96 Port: 80 Netmasic 255.255.240.0 Gateway: 192.168.69.1 DNS: 8 .8 .8 .8			💿 Same IP	Start IP:	192.168.69.96	Parts 80		etmasic (255.255	.240.0	Gateway: 19	2.168.69.1	DNS: 8 .8	.8 .8	2
🚱 Activiste 🛓 Export Device List 🔀 Modify										() berieve	. Dimont i	Device List	Modify	
perating information										9	9	Contraction of Contraction	9	

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.

Rote:

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

6		()		-@		- 9		i adr		
	C Tools							LUY/ Parameter	sword rch here	3
	the second s	Status MAC			Vetmask 1255/255/0	Gateway 192,169,5,1	Model MS-C2964-FPB	Run-up Time 2018-12-19	Version 40.7.0.65-pwd-	
		1000340040000	400 400 3.34		000.010.0	100 168.7.1 ×	MS-C3762-FIPB	17.48.04 2018-12-21 17:43:15	a6 41.7.0.65-pwd- a6	0
IPC Tools		Activation				168.5.1	MS-C4472-FIPB	2018-12-24 15:00:51	41.7.0.68-a6	0
11.00 (000)2						168.7.1	MS-C2975-PB	2018-12-24 17:02:43	40.7.0.68	0
(3)						168.7.1	MS-C5362-EPB	2018-12-18 16:10:37	41.7.0.65-pwd- a6	6
					_	168.2.1	MS-C2862-FPB	2018-12-21 16:44:30	41.7.0.68-a6	6
User Name:	admin				_	168.5.1	MS-C2963-PB	2018-12-18 13:38:35	40.7.0.67-r21	0
Password:					_	168.7.1	MS-C2972-FPB	2018-12-20 13:27:14	40.7.0.67-r10	C
Confirm:	curity Question				_	168.7.1	MS-C5372-FIPB	2018-12-18 22:18:58	41.7.0.67-ptz- dome-a6	6
Security Ques		our father's name?				168,7.2	MS-C3772-FIPB	2018-06-15 17:10:58	41.7.0.65-r4	e
NVR Tools Security Answ	er 1:					168.7.1	MS-C4482-PB	2018-12-20 16:15:03	41.7.0.65-pwd- a6	6
Security Ques	tion 2: What's yo	our father's name?						2019 07 04		-
Security Answ	er 2:					255.0	Gateway: 192.1	168.5 .1 DI	8.8.8.8	
Security Ques	tion 3: What's ye	our father's name?			•		🔊 Activate 🔳	Export Device L	ist 🗶 Mod	
Security Answ	ier 3:						(3)	5	1770.	
(<u>+</u>)					_		(2)			
Calculators				(4)		ave		Second Second	-	
				V2.4.0.1				<u> </u>	ve 🚫 Clear	

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

0							Ø—	- 9		adr		
	.` IP(C Tools						Upgrade			45678 Irch 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	6
	59	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-09-23 14:06:52	41.7.0.72-a5	e
С	60	Network Camera	Active	1C:C3:16:21:00:22	192.168.7.104	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	0
С	62	Network Camera	Active	1C:C3:16:23:01:39	192.168.7.124	80	255.255.240.0	192.168.9.2	MS-C2962-FPB	2019-09-26 08:28:26	41.7.0.71-r35	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 11:25:49	41.7.0.71-r15	C
С	64	Network Camera	Active	1C:C3:16:24:66:A1	192.168.7.161	80	255.255.240.0	192.168.5.1	MS-C2962-FPB	2019-09-26 09:46:16	40.7.0.71-r8	6
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 23:53:33	42.7.0.67-r1	6
C .	67	202大会议室1	Active	1C:C3:16:21:01:10	192.168.7.212	80	255.255.240.0	192.168.7.1	MS-C2972-FPB	2019-09-25	40.7.0.71-r15	C
<u> </u>	60	2001十个约定2	Activo	10-02-18-01-20-	102 160 7 214	00	255 255 240 0	102 169 7 1	NG 02072 PD	2019-09-26	40 7 0 71 -15	C
1/386	D)evice Name: etwor	k Camer	DIP: 192.168.7	.114) Port 8		Netmask: 25	5.255.240.0	Gateway: 192.	168.7.1 DN	S: 8.8.8.8	
								G		Export Device Lis	at 🗶 Mod	ifv
								J.		, <u>E. 19</u> 611 10 611 50 E.	. 9	
1	2019	9-09-30 09:10:53		l l	[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		

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

Languaga English
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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 autom this capability. Otherwise, you need to for the appropriate IP settings.	
Obtain an IP address automaticall	у
Use the following IP address: P address:	102 109 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 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);

	ngs		? ×
IP Settings DNS	WINS		
IP addresses			
IP address		Subnet mask	
192.168.1.10		255.255.255.0	
	Add	Edit	Remove
Default gateways:			
Gateway		Metric	
192.168.1.1		Automatic	
Automatic metri Interface metric:	c		
	c	ОК	Cancel
Interface metric:	c	OK	
Interface metric:		ОК 168 . 5 . 6	? ×
	192 .	And so its and	2 ×

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	e <i>sight</i> ∙Network C	amera				🕀 English 🛩	💄 admin 🗸
	👌 Media		TCP/IP HTTP	RTSP UPnP DDNS En	nal FTP		
•	Network Basic Advanced	*	ј 1Рv4 Туре	Static DHCP			
ø	B Storage		IP Address	192 . 168 . 69 . 66	Test		
0	Event	>	IPv4 Subnet Mask	255 . 255 . 255 . 0			
	優 System	3	Preferred DNS Server PPV6 Mode IPV6 Address IPV6 Address IPV6 Default Gateway	112 . 168 : 69 . 1 0 0 8 0 Manual			
			MTU MTU	1500 Slave	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 https://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.



Table 155. 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	ලම් Settings	Click to access the configuration page.
4	⊕ English ∽	Click to select system language.

No.	Parameter	Description
5	💄 admin 🗸	Display the user name and click to logout.
6	Primary Stream 🗸	Choose the stream (Primary/Secondary/Tertiary) to show on the current video window.
		Choose the options (Hide Detection Region/Parking Space Detection) to hide/display detection region on the current video window.
7	Hide Detection Region ~	
8	Recording	When recording, the icon appears.
9	Alarm	When an alarm of Motion Detection was triggered, the icon appears.
10	<u>نة</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	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 .

No.	Parameter	Description
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	Kauto ✓ Window Size	Click to display images at a window size.
17	Full Screen	Click to display images at full-screen.
¢ ↑		 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.
	Ċ [] O	 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.
-∳- -	 ★ ● ● <li< td=""><td>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: Restore brightness, contrast and saturation to default</td></li<>	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: Restore brightness, contrast and saturation to default

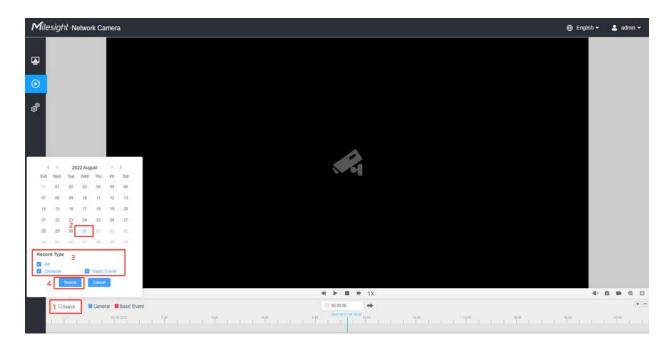
4.6 Playback

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 156. Description of the buttons

No.	Parameter	Description
Q Search	Sun Mon Tue Wed Thu Fri Sat 31 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 01 02 03 04 05 06 07 08 09 10 Record type I All I I I Basic Event Search	Search the recorded videos by record type (All/General/ Basic Event). The timeline will show different colors according to selected record type as below: General Basic Event
1	∢ , ≫ , 1X 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.
3	Stop	Stop the video.
4	00:00:00 Search Time	Select the time that want to locate.
5	Jump	Go To.

Table 157. Description of the buttons

No.	Parameter	Description
4	I	
	Mute	Click to enable the audio.

No.	Parameter	Description
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

filesight ·Network C	amera	r.				⊕ English + 💄 ad
🖨 Media Video	Ŷ	Primary Stream Sec	ondary Stream	Tertiary S	Stream	
Image Audio		Record Stream Type	General		Event	
Network Storage		Video Codec	H.264	÷.	11.254	
B Storage		Frame Size	1920*1080	- Q.		
Event	- >	Maximum Frame Rate	25	- 41	25	fps
🐼 System	,	Bit Rate	4096		4096	* ktps
		Smart Stream	or	- 4	CF.	
		Bit Rate Control	CBR	÷.	C154	
		Profile	Main	40	Mass	
		I-frame Interval	50			frame(1-120)
			Save			

Secondary Stream Settings

files	<i>ight</i> ∙Network C	Camera					🕀 English v	💄 admin
9	Media	,	Primary Stream Se	condary Stream	Tertian	Stean		
	limage Audio							
	Network	,	Video Codec	H 264				
	B Storage		Frame Size	640*480	¥			
	Event		Maximum Frame Rate Bit Rate	512		ţas		
	🕷 System	,	Smart Stream	off	4			
			Bit Rate Control	CBR	14			
			Profile	Main	Ŷ			
L			I-trame Interval	50		frame(1-120)		
				Save				

Tertiary Stream Settings

Moda Perang Stream Moda Peran	Milesig	thetwork Ca	amera				🕀 English 🛩	💄 admin •
Image Enable Auso Auso Auso Valoo Cooce Network 1 Storage 640-480 Rate 600-400 Storage 1024 Bit Rate 1024 Storage 1024 Bit Rate 1024 Fine 52 Prote Mann Auso 07 Fine 1024 Staraf 07 Fine 1024 Fine 1024 Staraf 07 Fine 1024 Staraf 07 Fine 1024 Staraf 07 Staraf 07 Fine 102 Staraf 07	100 C		,	Primary Stream Sec	condary Stream	(ettary Stream		
Image: Network Prame Size Image: System Frame Size Image: System Size								
Maximum Frame Rate 25 Image: System Bit Rate Off Bit Rate Off Profile Main Intame Interval 50 Intame Interval 50 Intame Interval 50 Intame Interval 50 Intame Interval Stame Intame Interval	0	9 Network						
				Maximum Frame Rate	25	ter tes		
Bit Rate Control CBR Proble Man I-frame Interval 60 Stame								
1-ftame Intervial 50 ftame(1-120)								
Concentration of the second				Profile	Men			
				I-trame Interval	50	frame(1-120)		

Table 158.	Description	of the buttons
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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.

Parameters	Function Introduction
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.
Bit Rate Control	VBR : Variable Bitrate. VBR files vary the amount of output data per time segment.
Image Quality	Low/Medium/High are available, this item is optional only if you select VBR.
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.

Mile	esight ∙Network Ca	amera			⊕ English ¥	💄 admin 🗸
۹	占 Media Video	×	General OSO Privacy Mask ROI			
\odot	Audio			Image Adjustment > Day/Night Switch >		
	Network	>		DayNight Paranelers		
ø	B Storage			Exposure		
	S Event	•		Backight >		
	🕲 System	>		White Balance		
				Image Enhancement		
				Display		
				Date		

[Image Adjustment]

Mile	esight Network	Camera					🕀 English 🖌 💄	admin 🗸
۲	📩 Media Video	÷	General OSD Privacy Mask ROI					
	Image			Image Adjustment				
\odot	Audio	,	2 2 SEPARAR	Brightness	50O			
	Network			Contrast	50O			
đ	Storage			Saturation	50O			
	S Event	•		Sharpness	50O			
	C System	•		2D DNR	500			
				3D DNR	500			
				Default				
				Day/Night Switch		>		
				Day/Night Parameters		3		
				Exposure		>		
				Backlight				
				White Balance		¥		
				Image Enhancement		¥.		
				Display		»:		
				Save				

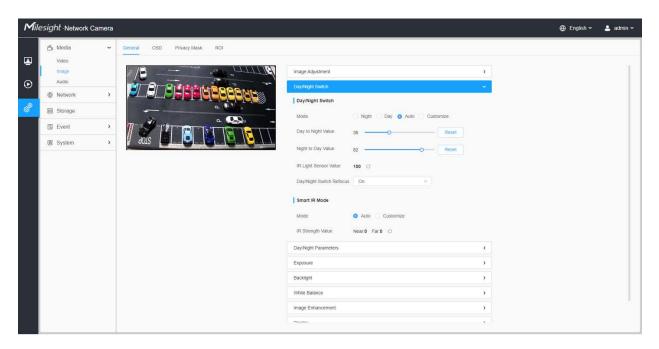
Table 159. Description of the buttons

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".

Parameters	Function Introduction	
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.



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

Table 160.	Description	of the o	ptions
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Paran	neters	Function Introduction
Day/Night Switch	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.

Paran	neters	Function Introduction				
	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.				
	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 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 161. 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]

Mile	esight Network Ca	mera								🕀 English 🛩	💄 admin 🛩
	ස් Media Video	~	General OSD Privacy Mask ROI								
	Image			Image Adjustment					>		
\odot	Audio	,	2 2 BLUCHBRARN	Day/Night Switch					>		
ø		·		Day/Night Parameters					*		
	E Storage				🔆 Day		► Night				
	S Event	,		Exposure Level	5	8	5	1			
	System	>		Minimum Shutter	1/25	÷	1/25				
				Maximum Shutter	1/100000	2	1/100000	¥			
				Limit Gain Level	100		100				
				IR-CUT Latency	55	×	55	×)			
				IR-CUT	On	Ŷ	011	141			
				IR LED	Off	÷.	On	9			
				Color Mode	Color	×	B/W				
					Reset		Reset				
				Advanced Schedule Mod	e 🖽						
				Exposure					>		
				Backlight					>		
				White Balance					>		

Table 162. 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	Edit Central 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. Image: Control of the settings in the settings is the sett

[Exposure]

Madia <	Mii	esight Network Camera		🕀 English 🗸	💄 admin 🗸
	•	Media ~ Video Image Autio @ Network > E Storage E Event >	Central 050 Privacy Mask ROI Image Adjustment > Day/Night Switch > Day/Night Switch > Day/Night Parameters > Exclogift > Write Balance > Image Enhancement >	⊕ English ¥	≗ admin ~
			Display		

 Table 163. 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 × Sun. -						

[Backlight]

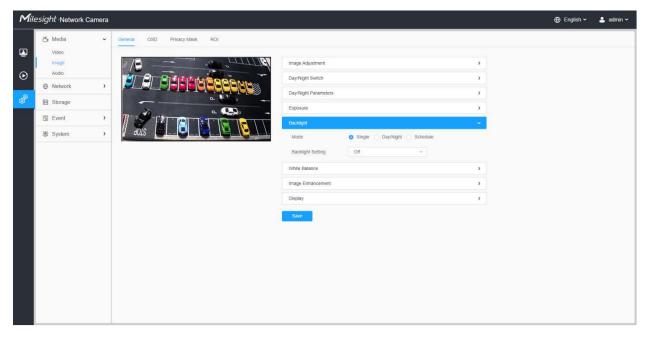


Table 164. Description of the buttons

Parameters	Function Introduction						
	Single Mode: Set single mode for BLC/WDR/HLC. Note: Do not support WDR and General HLC while Hig enabled. Day/Night Mode: Support BLC/WDR/HLC on Day Enhancer Enhancement Mode separately. Schedule Mode: Set schedule mode for BLC/WDR/HLC. You the schedule to enable/disable BLC/WDR/HLC mode.	nent Mode/Night					
Backlight Mode		× ■ WDR ¥ HLC					

Rote:

• 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]

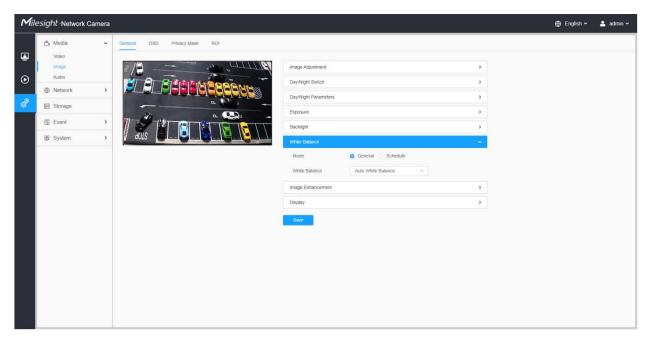
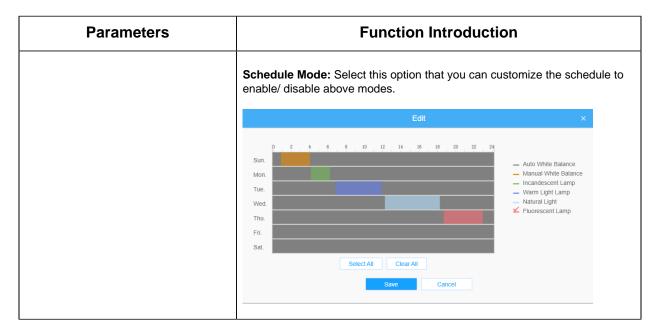


Table 165.	Description	of the buttons
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Parameters	Function Introduction					
White Balance	 To restore white objects, removed color distortion caused by the light of the environment. Mode: General and Schedule are available. General Mode: Select a white 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. 					
	Fluorescent Lamp.					



[Image Enhancement]

Mile	sight Network Carr	iera						(🕀 English 🛩	💄 admin 🛩
	🐣 Media Video	Ŷ	General OSD Privacy Mask ROI							
	Image			Image Adjustment			3			
\odot	Audio	,		Day/Night Switch			>			
ø	E Storage			Day/Night Parameters			>			
	E Event	>		Exposure			>			
				Backlight			>			
	System	,		White Balance			>			
				Image Enhancement						
				IR Balance Mode	Off	. ×]				c
				Reduce Motion Blur	Off	~				
				Focus Mode	Semi-Auto	(e)				
				Defog Mode	Off	×.				
				Digital Image Stabilisation	Off	×]				
				Display			>			
				Save						
				0						

Table 166. 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: https://www.youtube.com/watch?v=-vynrami51s					
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]

sight Network C	amera						🕀 English 🛩	💄 admin 🛩
📩 Media	~	General OSD Privacy Mask ROI						
Image			Image Adjustment			>		
			Day/Night Switch			>		
	,		Day/Night Parameters			3		
Storage			Exposure			>		
圖 Event	>		Backlight			3		
🕼 System	>		White Balance			>		
			Image Enhancement			2		
			Display			~		
			Power Line Frequency	50Hz	(e)			
			Outdoor/Indoor Mode	Outdoor	<u></u>			
			Corridor Mode	Off	×.			
			Image Rotation	Off	~			
			Keep Correct Aspect Ratio	Off	Y			
			Save					
	Media Video Image Audio Metwork Storage Event	Media Video Image Audio Network Storage Event	Media General OSD Privacy Mask ROI Video Inage Audo Network Storage E Event	Media General CSD Privacy Mask ROI Video Image Audio Image Audio Image Audio Image Audio Image Audio <td>Media Central OSD Privacy Mask ROI Video Image Audio Image Notwork Image Storage Image Audio Image Audio Image Audio <td>Media Central OSD Privacy Mask ROI Video Image: Adjachment Borrage Borrage Storage Stor</td><td>Media Center OSO Privacy Mask ROI Wide Image Musicon Image Audio Image Storage Image Stor</td><td>Media Center OSO Privacy Mask ROI Vide Image Mutourk Image Storage Image St</td></td>	Media Central OSD Privacy Mask ROI Video Image Audio Image Notwork Image Storage Image Audio Image Audio Image Audio <td>Media Central OSD Privacy Mask ROI Video Image: Adjachment Borrage Borrage Storage Stor</td> <td>Media Center OSO Privacy Mask ROI Wide Image Musicon Image Audio Image Storage Image Stor</td> <td>Media Center OSO Privacy Mask ROI Vide Image Mutourk Image Storage Image St</td>	Media Central OSD Privacy Mask ROI Video Image: Adjachment Borrage Borrage Storage Stor	Media Center OSO Privacy Mask ROI Wide Image Musicon Image Audio Image Storage Image Stor	Media Center OSO Privacy Mask ROI Vide Image Mutourk Image Storage Image St

Table 167. 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>

Mil	esight ·Network C	Camera	a							🕀 English 🛩	💄 admin 🛩
 • • • • • • • • 	 B Media Video Image Audio 	•	General 050	Privacy Mask	R01	Video Stream Regular Font Size Font Color	Primary Stream Medium	•			
	Event	,				Background Color	2	-•			
						Text Position	Network Camera				
						Zoom Status Timestamp Show Timestamp Date Position Date Format	5 5 Top-Right DDMMAYYYY	*			
						E Copy to Other 1	Streams 1772				

Table 168. 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:
Show Video Title	Check the check box to show video title.
Video Title	Customize the OSD content.
Text Position	OSD display position on the image.
Show Timestamp	Check the checkbox to display date on the image.
Date Position	Date display position on the image.
Date Format	The format of date.
Copy to Other Streams	Copy the settings to other streams.

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	sight Network C	Camera	ø											🕀 English 🛩	💄 admin 🛩
	A Media	~	General	OSD	Privacy Mask	ROI									
	Image		inner (/		Enable 🛃							
۲	Network	>						10 1	Name Privacy Mask1	Type Mosaic	Enable	Operation			
ø	B Storage							2	Privacy Mask2	Yellow		2.0			
	Event	•					in C								
	🐼 System	>		-		-		Dekte AR							
				Mask (Save							
			1.000	H HARAGA	80										

Table 169. Description of the buttons

Parameters		Function Introduction
Enable	Check the check box to	o 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 o	on the live video as needed.
Clear	Clear the area you dre	w on the live video.
	🗆 , 🗹	Enable/disable the selected ROI areas.
Operation	2	Change the color of Mask area, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and 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.

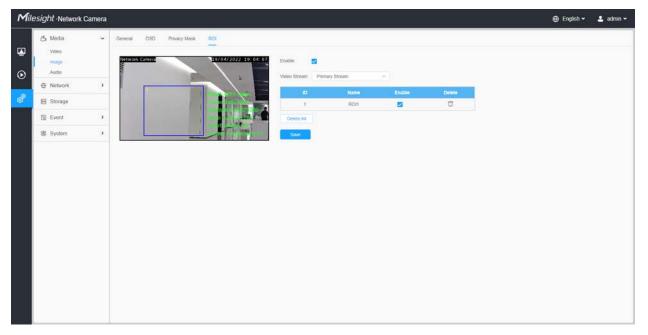


Table 170. Description of the buttons

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

Mile	sight Network C	Camera	-				🕀 English 🗸	💄 admin 🗸
ø	📩 Media video	v	Audio	Audio File Management				
\odot	Image Audio		illine.		Enable Audio Mode	Both Audio Input & Output		
	Network	>				son wore upor a purple		
ø	B Storage				Audio Input			
	Event	•			Encoding	G.711-ULaw *		
	🕼 System	>			Sample Rate	Bio1z.		
					input Gain	50O		
					Audio Output			
					Auto Gain Control			
					Output Volume	50O		
					Save			

Table 171. 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	sight Network Ca	amera					🕀 English 🛩	💄 admin 🗸
_	💪 Media	~	Audio Audio File Man	agement				
•	Video Image Audio		Audio File Storage Type	Flash				
۲	Network	,	Audio File 🕕	Flash				
ø	B Storage		ID Aud	io File Name	Doleta			
	S Event	•		No Data				
	10T	•	Add					
	C System	•						

Rote:

- 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

Milesight Network Ca	mera				🕀 English 🛩	💄 admin 🛩
👌 Media	•	TCP/IP HTTP RTSI	SP UPnP DDNS Em	nal FTP		
Network Sose Advanced	*	IPv4	Static DHCP			
B Storage		IP Address 19	92 , 168 , 69 , 66	Test		
Event	3	IPv4 Subnet Mask 25	55 . 255 . 255 . 0			
🐼 System	•	IPv4 Default Gateway 19	32 . 168 , 69 , 1			
		Preferred DNS Server 8				
		IPv6				
		IPv6 Mode Ma	tanual: 🗸			
		IPv6 Address				
		IPv6 Prefix				
		IPv6 Default Gateway				
		MTU				
		MTU 15	500	1200-1500 Bytes		
		-	Save			

Table 172. 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>

ght Network Camera					🕀 English 🛩
5 Media 🔹 👌	терир нттр	RTSP UPoP DDNS	Email FTP		
Network Sask Advanced	Enable	2			
B Storage	Port	80			
중 Event >	HTTPS				
🗑 System 🔹	Enable				
	Port	443			
	Installed Certificate	C=US, HIIP=IPC	Reset		
	Altributes	Awarded to C=US, H4IP=IPC Issuer C=US, H4IP=IPC Period of Validity Aug 13 10:57 12 2020 - May 9 10:57 12 2023			
	Installation Type	Create a Private Certificate	4		
		Create			
		Sive			

Table 173. 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 174. 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>

Г

Mile	sight ·Network Car	mera	5.			🕀 English 🗸	💄 admin 🛩
	👌 Media	•	TCP/IP HTTP RT	TSP UPnP DDNS Er	mai FTP		
•	Network Basic Advanced	*	RTSP Port Playback Port	554	© ©		
e ^p	B Storage		RTP Packet	Better Compatibility -			
OT .	Event	>	Multicast Group Address	239 . 6 . 6 . 6			
	I System	•	QoS DSCP(0-63)	0			

Table 175. 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 176. RTSP URL are as below:

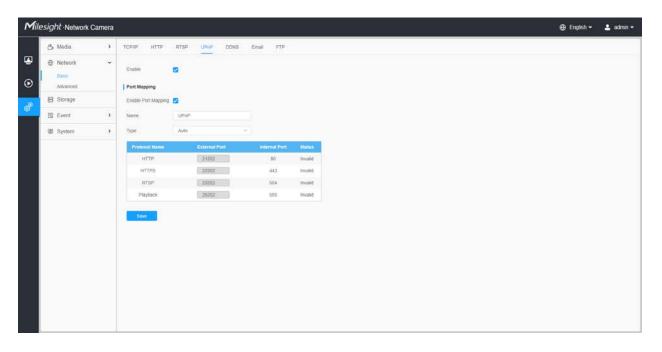
Stream	URL
Primary Stream	rtsp://IP:RTSP Port/main
Secondary Stream	rtsp://IP:RTSP Port/sub
Tertiary Stream	rtsp://IP:RTSP Port/third

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.



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	sight Network Cam	ira				🕀 English 🛩	💄 admin 🛩
	📇 Media	TCP/IP HTTP	RTSP UPnP DONS Email	FTP			
•	Network Basic Advanced	Enable Provider	ddns.milessgtit.com				
ø	B Storage	External HTTP Port	80				
(C)	G Event	External RTSP Port	554				
	🕅 System	External Playback Port	555				
			http://ddns.milesight.com/2AB1E6				

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 178. 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.				

Bote:

- 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.

filesight ·Network C	amera	-				🕀 English 🛩	💄 admin
👌 Media	•	TCP/IP HTTP RTSP	UPnP DDNS	Email	FTP		
Network Basic Advanced	*	Enable User Name	☑ 1013698401@qq.com				
B Storage		Sender Email Address	1013696401@qq.com				
S Event	>	Password		0			
🕲 System	•	Email Server	smtp.qq.com				
		Email Port	25				
		Recipient Email Address1	abagmilesight.com				
		Recipient Email Address2					
		Encryption	None O SSL	TLS			
		Snapshot Settings					
		Alarm Snapshot File Name	YYYY-MM-DD	1.00			
		Timing Snapshot File Name	YYYY MM-DD				
			Save Test				

Table 179. Desc	ription of the buttons
-----------------	------------------------

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

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

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

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

<u>FTP</u>

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

Miles	s <i>ight</i> Network (Camera	-		
	🖧 Media	>	TCP/IP HTTP RTSP	UPaP DONS	Email
, I	Network Basic Advanced	¥	FTP Server Settings	FTP	. w
.	B Storage		Server Address	192.168.70.97	
	Event	>	Server Port	21	
	I System	>	User Name	aba	
			Password	*****	0
			FTP over SSL/TLS(FTPS)		
			Storage Path	Root Directory	*
			Alam Action File Name	Default(YYYY-MM-DD)	÷.
L			Timing Snapshot File Name	YYYY-MM-DD	4
			Pre Second	0 s Slave Rest	

 Table 180.
 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.

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 (Camera	a,	🕀 English 🗸	💄 admin 🛩
	🖧 Media)	VLAN PPPoE SNMP 202 tx Bonjoor RTMP SIP More		
•	Network Basic Advanced	*	Enable VLAN (D(1-4094) 1		
đ	B Storage		VUAN IP		
	S Event		VLAN Netmage		
	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.

Mile	esight Network (Camera	-							🕀 English 🗸	💄 admin 🛩
	🖒 Media)	VLAN PPPoE	SNMP	802.1x	Bonjour	RTMP	SIP	More		
•	Network Basic Advanced	*	Enable Dynamic IP								
đ	B Storage		User Name								
©.	S Event	>	Password								
	₽ loT	•	Confirm Password								
	System	•		Sine							

Rote:

- 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	sight Network (Camera												🕀 Englis	h v	💄 adn	nin 🗸
	👌 Media	>	VLAN PPPoE	SNMP	802.1x	Bonjour	RTMP	SIP	More								
•	 Network Basic Advanced 	Ŷ	SNMP v1/v2 Enable SNMP V1														
ď	B Storage		Enable SNMP V2c														
U	Event	3	Write Community	poblic													
	😑 loT	•	Read Community	privated													
	@ System	>															
			Read Security Name Level of Security Write Security Name	HO 24304.9	o pen	×											
			Level of Security	no aim n	n pdy	ų											
			SNMP Port														
			SNMP Port	161													
				Save													

Table 181. 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

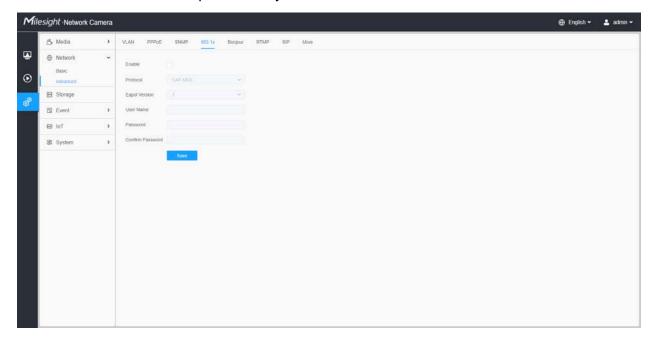
Parameters	Function Introduction				
	Enable SNMP v3: Provide encryption and the HTTPS protocol must be enabled.				
	Read Security Name: Input the name of Read Security Community.				
SNMP v3	Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv).	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

F 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>

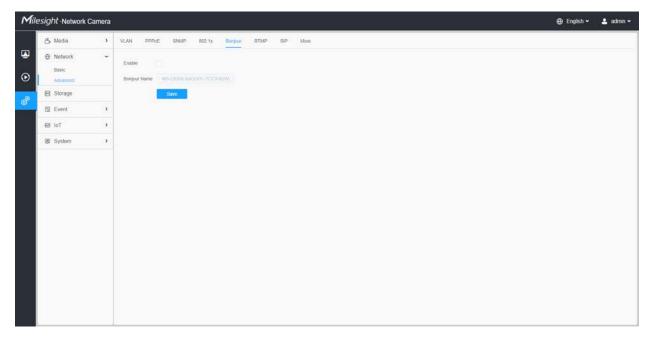
The IEEE 802.1X standard is supported by the network cameras, and when the feature is enabled, the camera data is secured and user authentication is needed when connecting the camera to the network protected by the IEEE 802.1X.



<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.

, Media			and the second s	STANDED CONTRACTOR
a moula	•	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
8 Network Basic Advanced	*	Enable Stream Type Permany Second v		
Storage		Server Address		
Event	>	Sare		
l IoT	•			
2 System	•			
3	Advanced Storage Event IoT	Advanced Storage Event > IoT >	Basic Arbances Arbances Steram Type Storage Server Address Event Save	Basic Arbances Arbances Sievan Type Storage Siever Address Event Sisve

📑 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.

Mile	esight Network	Camera	e	🕽 English 🛩	💄 admin 🛩
	📇 Media	>	VLAN PPPoE SNMP 802.1x Bonjour RTMP SP More		
•	Network Basic Advanced	÷	SiP Settings > Atam Phone List >		
ø	B Storage		White List >		
0	Event	3	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]

esight Network C	Camera					⊕ E
📇 Media		VLAN PPPoE SNMP	802.1x Bonjour	RTMP SIP More		
Network Basic	÷	SIP Settings			···	
Advanced		Enable	0			
B Storage		Register Mode	Castle	27.1		
Event	3	User ID	300			
e loT	•	User Name	reported			
@ System		Password				
		Server Address				
		Server Port	3060			
		Connection Protocol				
		Video Stream	Primary Steam	(w)		
		Enable Audio in SIP Call				
		Max Call Duration	1000	s (0 means no limitation.)		
		Status	Unregistered			
		Alarm Phone List			3	
		White List			3	

Table 182. 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]

Mile	esight Network C	amera		🕀 English 🕶	💄 admin 🛩
	👌 Media	> V	LAN PPPoE SNUP 802.1x Bonpor RTMP SP More		
•	Network Basic	÷	SIP Settings		
ð	Advanced B Storage		Alami Phone Lal v SIP Phone Phone Type Remark Name Duration Delete		
Ø	Event	3	1837659038 Phone Number 00.00-23.59		
	I System	•	Add Delete All		
			BAR		

Table 183. 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.
	Delete the selected alarm phone.
Delete All	Delete all added alarm phone.

[White List]

Mile	Milesight-Network Camera 🕀 English 🗸 💄 admin 🗸							
	📇 Media	>	VLAN PPPoE SNMP 802.1x Bonjour RTMP SP More					
•	Network Basic	Ŷ	SIP Settings >					
\odot	Advanced		Alarm Phone List					
ď	B Storage		White List 👻					
U.	Event	>	Enable While List Number Filter					
	@ System	•	SIP Phone Phone Type Delete					
			No Data					

Table 184. 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	Camera		🕀 English 🗸	💄 admin 🗸
	📇 Media)	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More		
•	Network Basic Advanced	÷	Push Message Settings Enable		
đ	B Storage		Push Event Type Edit		
e.	Event	>	ONVIF Setting		
	e loT	•	Enable 🛃		
	🕼 System	,	Save		

Table 185. Description of the buttons

Parameters	Function Introduction
	Enable: Enable/disable the Push Message function
	Edit 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 Z External 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

Mile	sight Network Ca	imera		🕀 English 🛩	🛓 admin 🗸
•	Andia Video Image Audio	,	Storage Management Record Settings Englisher Storage Storage 20.440/159.440 Format		
	Network	>	NAS		
ø	B Storage		No Server Address Directory Mounting Type Total Free User Name Status Operation		
	Event	>	No Data		
	System	•	Δ3		

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 186. 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 ×
Nas	Server Address* Directory* Mounting Type NFS Mounting Type 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. Image: Note: • Up to 5 NAS disks can be connected to the camera. • 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 https://milesight.freshdesk.com/a/solutions/articles/69000797902 .

Record Settings

Milesight Network Camera		🕀 English 🛩	💄 admin 🛩
占 Media >	Storage Management Record Settings Snapshot Settings Explorer		
Network Basic Advanced	Storage Settings Enable Recycle Storage		
E Storage	Pre-Second 0 seconds V		
Event >	Schedule Settings		
	Sun Mann Mann True FR Sat		

Table 187. 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	,	Storkge Management Record Settings Snapolicit Settings Explorer		
۳	Network	>	Snapshot Settings		
\odot	E Storage		Enable Timing Snapshot 🛃		
	S Event	>	Interval 1 In		
ø	🕼 System	>	Save to storage (Please mount storage device.)		
			Upload Via FTP		
			Upload Via Email		
			HTTP Post		
			Schedule Settings		
			Sun.		
			Tue		
			Wed		
			Thu Pri		
			-Sat.		
			Select A3 Calear Aa		
			Save		

 Table 188.
 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.
Schedule Settings	HTTP Post: Upload the snapshots via HTTP Post. Support uploading the snapshots to specified HTTP URL. Edit record schedule as needed. Intuitive scheduling by drawing the time bar directly. Schedule Settings Sun. Mon. Tue. Wed. Thu. Fri. Sat. Select All Clear All
Schedule Settings	Copy To Image: Copy To Sun. Mon. Tue. Copy the schedule area to another date. Wed. Thu. Fri. Sat. Save Select All Select All Select all schedule.

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

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.).

Network > Storage Image: Storag	Company and the second second second			nent Record Settings Snap	hot Settings Explorer			
Ristorage Rist Atame Start Time End Time Type Start Image: System 1 120220025192231 2022-03-25 19.22.31 2022-03-25 19.27.35 Timing 250.64M Image: System 1 120220025192735 2022-03-25 19.27.35 2022-03-25 19.37.44 2009 250.95M 250.95M Image: System 1 120220025192745 2022-03-25 19.27.45 2022-03-25 19.37.44 2009 251.95M 250.95M Image: System 1 120220025193744 2022-03-25 19.37.44 2022-03-25 19.37.44 2022-03-25 19.47.54 Timing 251.95M Image: System 1 120220025194744 2022-03-25 19.47.54 2022-03-25 19.47.54 Timing 251.95M Image: System 1 120220025194754 2022-03-25 19.2.58 2022-03-25 19.2.58 Timing 250.66M Image: System 1 120220025194754 2022-03-25 19.5.28 2022-03-25 19.5.28 2022-03-25 19.5.28 2022-03-25 19.5.28 2022-03-25 19.5.08 Timing 250.66M Image: System 1202202025195502 2022-03-25 19.5.02	Network	2	Main Type R	lavord Sub Time	All Start Time	2022/03/25 00 00 00 Fed Time 3 2022/03/25	23 69 69	Search
Image: Constraint of the system 120220325192231 2022-03-25 19:22.31 2022-03-25 19:27.35 Timmg 280 64M Image: Constraint of the system 120220325192735 2022-03-25 19:27.35 2022-03-25 19:27.35 2022-03-25 19:27.35 2022-03-25 19:27.35 2022-03-25 19:27.44 Timmg 251.51M Image: Constraint of the system 1202203251997.44 2022-03-25 19:37.44 2022-03-25 19:47.44 Timmg 251.54M Image: Constraint of the system 120220325197.44 2022-03-25 19:47.44 2022-03-25 19:47.44 Timmg 251.54M Image: Constraint of the system 1202203251947.44 2022-03-25 19:47.44 2022-03-25	E Storage				1. Sec			
Image: System 120220325192735 2022-03-25 19:735 2022-03-25 19:32.40 Timag 251.51M 120220325193744 2022-03-25 19:72.40 2022-03-25 19:37.44 2022-03-25 19:37.44 Timag 251.54M 120220325193744 2022-03-25 19:37.44 2022-03-25 19:37.44 2022-03-25 19:47.54 Timag 251.54M 120220325193744 2022-03-25 19:47.54 2022-03-25 19:47.54 Timag 251.64M 120220325194754 2022-03-25 19:47.54 2022-03-25 19:52.56 Timag 250.69M 120220325195025 2022-03-25 19:52.56 2022-03-25 19:50.26 Timag 250.69M 120220325195025 2022-03-25 19:50.26 2022-03-25 19:50.02 Timag 250.69M 120220325195025 2022-03-25 19:50.02 Timag 250.69M 250.69M 250.69M	S Event	•	-					
120220325193240 2022-03-25 19:32.40 2022-03-25 19:37.44 Timing 290.92M 120220325193744 2022-03-25 19:37.44 2022-03-25 19:37.44 2022-03-25 19:47.94 Timing 251.94M 120220325193744 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 19:52.56 Timing 250.95M 120220325195256 2022-03-25 19:52.56 2022-03-25 19:50.26 Timing 250.95M 120220325195556 2022-03-25 19:50.56 2022-03-25 19:50.60 Timing 250.95M 120220325195556 2022-03-25 19:50.60 Timing 250.95M 120220325195556 2022-03-25 19:50.60 Timing 250.95M	DB Contract	1						
120220025195744 2022-03-25 19:37.44 2022-03-25 19:47.54 Timing 251 3644 1202200251954249 2022-03-25 19:47.54 Timing 251 4644 120220025194754 2022-03-25 19:47.54 Timing 251 4644 120220025194754 2022-03-25 19:47.54 Timing 250 4694 120220025195025 2022-03-25 19:52.56 2022-03-25 19:50.02 Timing 250 6694 120220025195602 2022-03-25 19:50.02 Timing 250 6694	de system	<u> </u>						
1202203251954249 2022.03.25 19.42.49 2022.03.25 19.47.54 Timmg 251.44A 120220325194754 2022.03.25 19.47.54 2022.03.25 19.52.58 Timmg 250.09A 120220325195298 2022.03.25 19.47.54 2022.03.25 19.52.58 2022.03.25 19.50.02 Timmg 250.69A 120220325195502 2022.03.25 19.56.02 2022.03.25 19.56.02 Timmg 250.69A								
120220325194754 2022.03-25 19.47.94 2022.03-25 19.52.60 Timing 250.09M 120220325195256 2022.03-25 19.52.60 2022.03-25 19.56.02 Timing 250.69M 120220325195052 2022.03-25 19.56.02 2022.03-25 19.56.02 Timing 250.69M								
120220025195602 2022-03-25 19 56 02 2022-03-25 20 00 08 Timing 251 65M				120220325194754	2022-03-25 19:47:54	2022-03-25 19:52:58	Timing	250.89M
				120220325195258	2022-03-25 19:52:58	2022-03-25 19 58 02	Timing	250 6944
120220325200308 2022-03-25 20:03 08 2022-03-45 20:07-37 Timing 221.72M				120220325195802	2022-03-25 19:58:02	2022-03-25 20:03:08	Timing	251,65М
				120220325200308	2022-03-25 20 03:08	2022-03-25 20:07:37	Timing	221.72M

4.7.4 Event

Basic Event

Motion Detection

Miles	ight Network Cam	era		🕀 English 🗸	💄 admin 🗸
	🖧 Media	,	Motion Detection Audio Alarm External Input External Output Exception		
	Network	>	Enable Detection		
\odot	E Storage		Enable Motion Analysis		
	S Event	~	Basic Settings S		
ď	Basic Event		Schedule Settings		
	PTZ		Alarm Action		
	(a) LPR	>			
	System	2	Select All Clear All		
			1		

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 189. 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]

able Detection		
able Motion Analysis		
Basic Settings		
Mode	Normal Mode Advanced Mode	
Sensitivity	9	
Onvif Motion ActiveCells Settings	Normal	
Schedule Settings)
Alarm Action)

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 190. Description of the buttons

[Schedule Settings]

Step5: Set motion detection schedule;

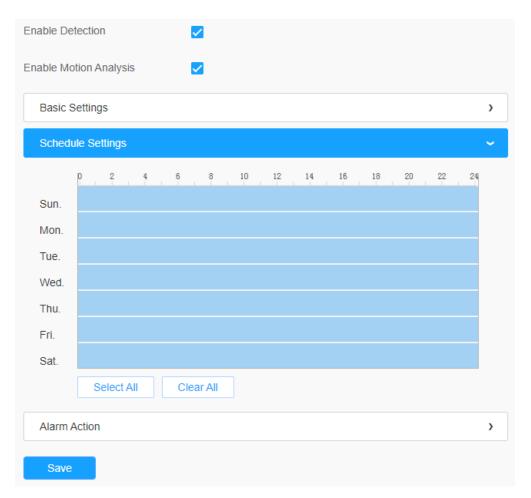


Table 191. Description of the buttons

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 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 192. 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. 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. Note: Only for PTZ Bullet.
PTZ Motion	When the motion alarm triggered, PTZ Motion allows the camera move the lens to the motion triggered position and zoom in.
	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)	

<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 Carr	nera									🕀 English 🗸	💄 admin 🗸
	🖒 Media	>	Motion Detection	Audio Alarm	External Input	External Output	Exception					
۵	e Network	•	Manual I				Enable Audio Alarm	(Please enable the Au	zdio Mic.)			
\odot	B Storage		And a state of the	: Elm I			Basic Settings					
	C Event	v	2	6			Alarm Threshold	250				
0	Basic Event		1770	1	i tear		Audio Sample Value					
	S PTZ		Acres 1974		Video Code		Schedule Settings					
	@ LPR	>			100	Contract -	Alarm Action			,		
	(gr System	·					Save					

[Basic Settings]

Table 193. 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 85)</u> for the meanings of the items, here will not repeat again.

[Alarm Action]

Refer to the table <u>Table 4 (page 86)</u> for the meanings of the items, here will not repeat again.

External Input

Miles	sight Network Came	ra		🕀 English 🗸	🛓 admin 🗸
	👌 Media	>	Motion Detection Audio Alarm External Input Extensil Output Exception		
۳	Network	>	Enable External Input		
\odot	B Storage		Schedule Settings >		
ð	Basic Event	×	Alarm Action		
	D PTZ		Sine		
-	@ LPR	>			
	😨 System	>			

Refer to the table <u>Table 3 (page 85)</u> for the meanings of the items, here will not repeat again.

External Output

Miles	ight Network Camera		🕀 English 🗸	💄 admin 🗸
	👌 Media 🔷 👌	Motion Detection Audio Alarm External Input External Cutput Exception		
•	Network	Normal Status Settings		
	B Storage	External Output Open O Grounded		
đ	Event -			
	S PTZ	Manual External Output		
•	(iii) LPR	Manual Output Start		
	🕼 System 🔸	External Output Action Time Manual Control 🖤		
		Gav		

[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 194. 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

Moda Moda Auda Auda Auda Detending Extendioque Derebin Netion Checkon Auda Auda Auda Detending Extendioque Derebins Netion Checkon Auda Auda Auda Detending Extendioque Derebins <td< th=""><th>sight Network Carr</th><th>nera</th><th></th><th>⊕ English ∽ 💄 admin</th></td<>	sight Network Carr	nera		⊕ English ∽ 💄 admin
Alsom Type Network Disconnected Basic Event Enable Alarm Basic Event IAlarm Action	👌 Media	>	Motion Detection Audio Alarm External Input External Output Exception	
Storage Basic Event Basic Event Atarm Action Atarm Action Atarm Action Atarm Action Basic Event Atarm Action Atarm Action <td>Network</td> <td>></td> <td>Alarm Type Network Disconnected</td> <td></td>	Network	>	Alarm Type Network Disconnected	
Basic Event I Alarm Action ip. PTZ Record ip. PTZ Snapshot ip. System Snapshot ip. System Ptay Audio "Please ender the Audio These ender	B Storage			
(iii) LPR 5 (iii) System Fitzer and Output (iii) System Pitzer and the Funder Statement (iiii) White LED 3		*	Alarm Action	
Image: System >	© PTZ		Record	
System Play Audio (Place ender the Audio Streater.) White LED >	(LPR	,		
	遼 System	>		
			O White LED >	

Table 195. 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 85)</u> for the meanings of the items, here will not repeat again.

Parking Management

High-accuracy outdoor parking space detection based on AI algorithm can realize simultaneous detection and management of up to 100 parking spaces with more than

98% detection accuracy, which greatly helps guide parking and realizes more efficient and intelligent parking management.

Mil	esight Network Carr	nera		🕀 English 🗸	💄 admin 🗸
	ප් Media	>	Parking Spoce Detection		
•	Network	>	I / E Enable Detection		1
\odot	🗎 Storage				
đ	Event.	*	Detaction Settings		
Ør	Basic Event Parking Management		Detection SeriesVity 5		
	🗷 System	>	Coopancy Sensitivity 5		
			ID Area Kame Planed Spaces Distribution Numbering Scheme Operation		
			Add Cear		
			Ne Catal		
			Deside A8		
			Note: The total number of paining spaces \$100.		
			Report Settings		
			VRL 1 2 3		
			https://doc.com		
			Save		
			Save Save		

Setting steps are as shown below:

Step 1: Click the button to enable the Parking Space Detection.

Step 2: You can click the button to enable the Parking Image Enhancement, which can help to ensure the detection of parking lots at night, providing 24/7 surveillance monitoring.

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

[Detection Settings]

Step 3: Set Detection Sensitivity and Occupancy Sensitivity. Level 1~10 are available, the default level is 5.

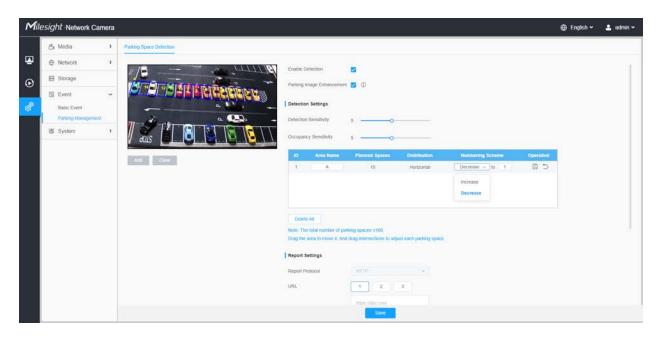
Table 196. Description of the buttons

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.

Parameters	Function Introduction
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 4: Draw the detection areas based on the parking lot. Click due to configure the information of detection area.

Mil	esight Network Camer		🖶 English 🛩	🛎 admin 🗸
	Meda Meda			
		Note: The bill number of packing spaces strid:		



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

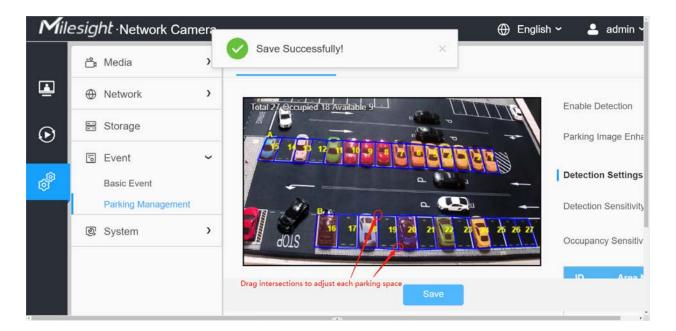
Table 197	. Descri	ption of	the	buttons
-----------	----------	----------	-----	---------

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
Distribution	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:
Numbering Scheme	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:
2	Edit the Area Name and Numbering Scheme of the detection area.
	Delete the detection area.
B	Save the edit.
5	Cancel the edit.
Delete All	Delete the all added detection areas.

Step 5: 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.



Step 6: 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	esight Network Car	nera		🕀 English 🛩	💄 admin 🗸
	👌 Media	>	Parking Space Detection		
•	Network	,	Stell Rotoped 19-finalise 8 0 ULLI I V 4 8 11 Increase from 16 K G		
\odot	B Storage				
	Event.	*			
ø	Basic Event Parking Management		Cecter All Cecter All Factor of parking spaces \$100		
	🖉 System	>	Report Settings		
			Report Protocol		1
			Add Clear URL 1 2 3		
			httpp://aisioc.com		
			Enable		
			HTTP Method Past v		
			Seapshet 💆		
			User Name admin		
			Password 💿		
			Period Report		
			Penos 60 \$(5-3600)		
			Sine		

[Report Settings]

Step 7: With high compatibility, the parking information can be reported by HTTP(s).

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

Table 198. 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 8: Click the button to enable the Report.

Step 9: 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)"

}

Table 199.

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.
resolution_w	3840	The width of processing resolution.
resolution_h	2160	The height of processing resolution.
parking_area	А	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.

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 200.

	Кеу	Sample of Value	Description
	event	Parking Space Detection	The event name of the parking information data.
c	levice	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.
rep	ort_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.

4.7.5 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.

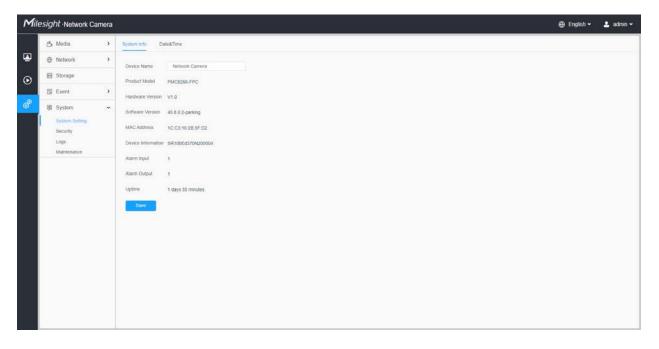


Table 201. Description of the buttons

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	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.

Date&Time

Miles	s <i>ight</i> ·Network Ca	mera		🕀 English 🛩	💄 admin 🛩
	📇 Media	•	System Info DateSTime		
٠	Network	>	Current System Time		
\odot	B Storage		Date 27/05/2022		
	S Event	•	Time 15:33:04		
đ	e 10T	•	Set the System Time		
	😨 System	~	Time Zone: (UTC+08:00) Chinai(Beijing, Ho \vee		
	System Setting Security		Daylight Saving Time Disabled		
	Logs		Synchronize Mode NTP server O Manual Synchronize with computer time		
	Maintenance		Time (S) 2022-03-27 15 33 05		

 Table 202. 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.

Security

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

<u>User</u>

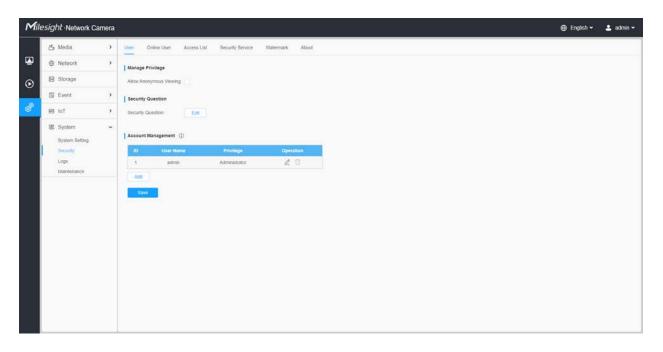


Table 203. Description of the buttons

Parameters	Function Introduction		
Manage Privilege	Allow anonymous viewing: Check the checkbox to enable visit from whom doesn't have account of the device.		
	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 Question	Admin Password* Security Question1 What Answer1* Security Question2 What Answer2* Security Question3 What Answer3* Save	<pre>'s your father's name? * 's your father's name? * 's your father's name? * Cancel How, you can also customize the security</pre>	
	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. 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.

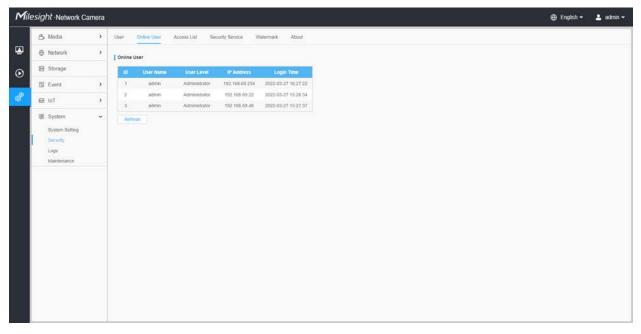


Table 204. Description of the buttons

Parameters	Function Introduction	
Refresh	Click to get latest status of user accessing to camera.	
ID Record serial number of user logging in camera. ID 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

Miles	s <i>ight</i> ∙Network C	amera					
	📇 Media	>	User Online User	Access List	Security Service	Watermark	About
•	Network	,	General Settings				
\odot	B Storage		Max. Number of Connection	a 10		9	
	S Event	•	Access List				
8	E 10T	•	Enable Access List Filtering				
	😵 System	~	Filter Type	Alon	K-Deey		
	System Setting Security		ID Rule		Address	Operatio	ón.
ľ	Logs				No Data		
	Maintenance		Add Deservation	1			
			Save				

Table 205. 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.		
	Ż	Edit the selected IP on access list.		
		Delete the selected IP on access list.		
Save	Save the configuration.			

Security Service

Mile	sight Network C	amera						🕀 English 🛩	💄 admin 🛩
	👌 Media)	User Online User	Access List	Security Service	Walermärk	About		
۲	Network	2	SSH Settings						
\odot	B Storage		Enable 🛃						
	Event	•	SSH Port 6022						
đ	₽ 101	•	Save						
	(8) System System Setting Security Logs Maintenance								

Table 206. 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

filesight Network Ca	amera		🕀 English 🛩	💄 admin 🛩
👌 Media	,	User Online User Access List Security Service Wittermark About		
Network	,	Watermark Settings		
B Storage		Enable		
S Event	•	Watematk String IIF-CARERA		
@ 1oT	•	Sine		
GE 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	sig	ht Network Ca	mera						•	English v	💄 admin 🛩
	6	Media	•	User	Online User	Access List	Security Service	Watermark	About		
	۲	Network	>	Open	Source Software	Licenses					
\odot	8	Storage			view Licenses						
	9	Event	•								
ď	8	IoT	•								
1		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	>	Main Type All Types	 Sub Type All Types 	- Start Time 🗇 2022-	11.27 00 00 00 Ford Time	S 2022-03-27 23 59 59		Search
B Storage			and the second second second	Sector Sector 1 Receipt				
Event	,	Time	Main Type	Sub Type	Param	User	.	Detail
Cil Even	~	2022-03-27 16:27:22	Operation	RTSP Session Start			192.168.69.234	RTSP
10T	>	2022-03-27 16:27:22	Operation	RTSP Session Start	23		192 168 69 234	RTSP
System	~	2022-03-27 16:27:22	Operation	Video Param Set Remotely	÷.		192.168.69.234	Main(bit rate change.)
		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	Date8Time	admin	192 168 69 234	
Security		2022-03-27 15:29:09	Operation	RTSP Session Stop	15	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	8	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	5	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	8	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	10 10		192.168.69.48	RTSP
					To	tal 1122 30/paige - 1	1 2 3 4 5 6	38 > Go to

Table 207. 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

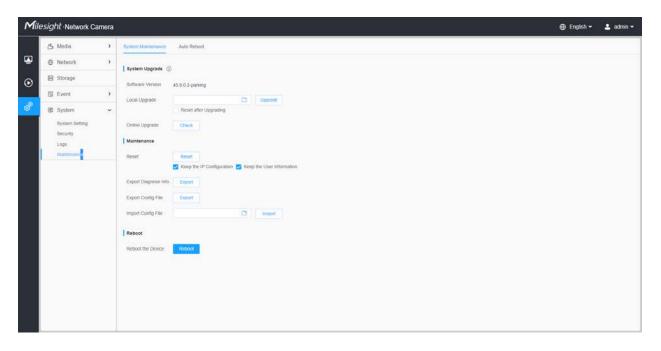


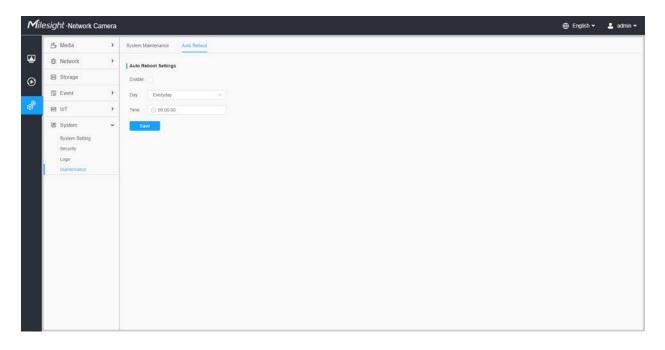
Table 208. Description of the buttons

T

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: File Encryption Configuration X Input the encryption password Confirm
Maintenance	Save Cancel You need to enter and confirm password again, then click save button to export configuration file. Import Config File: Click this button, then a window will pop up and you can click "OK" to update the configuration. It will pop up a window to prompt "Input the password of config file", then enter password and click save button to import configuration file.
	File Encryption Configuration Input the encryption password Save Cancel 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

MILESIGHT USA

TEL: +1-800-561-0485

Add: 220 NE 51st ST, Oakland Park, Florida 33334, USA

MILESIGHT KOREA

TEL: +82-2-839-3335

Add: 925, Anyang SK V1 Center, LS-ro 116beon-gil, Dongan-gu, Anyang-si, Korea

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Add: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China