



Network Camera User Manual

Fisheye Camera

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Chapter 1. Introduction

1.1 Copyright Statement

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

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

1.2 Industry Canada ICES-003 Compliance

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

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

1.3 Safety Instruction

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

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

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

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

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

1.4 EU Conformity Statement

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

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

1.5 Revision History

Version	Revision Content	Release Date
V9.0	First release	June 2022

Chapter 2. Product Description

2.1 Product Overview

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

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

2.2 Key Features

System

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

Image

- 0.005Lux Ultra Low Light
- Smart IR II technology
- 4K Video Viewing Experience
- Support HLC
- Support BLC
- ICR filter with auto switch, true day/night

Video

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

Audio

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

Network

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

Advanced Function

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

Hardware

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

Fisheye

- Up to 30fps@4000×3000
- Support Hardware Dewarping and Software Dewarping
- Support Auto Tracking function
- 11 display modes to meet various needs
- Equipped with Audio I/O and Alarm I/O
- IK10-rated vandal-proof metal cover, and IP67-rated weather-proof housing
- Streamlined design, exquisite appearance
- Easy to blend in with the installation environment

2.3 System Requirements

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

CPU: 1.66GHz or higher

RAM: 1G or higher

Graphic memory: 128MB or more

Internet protocol: TCP/IP (IPv4/IPv6)

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

Chapter 3. Configuration Flow

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

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



More configuration details is shown in the following table.

Table 1. Description of flow

Configuration	Description	Reference
Network Connection	Connect the network camera. You can set the camera over the LAN or dynamic IP connection.	4.1 Setting the Camera over the LAN (page 11)
Accessing the Network Camera	Accessing from IP address, web browser and Milesight back-end software are available.	5.1 Assigning An IP Address (page 13)
Configure Basic Parameters	After login the camera, you can adjust the video/image/audio/network parameters as needed.	8.1 Media (page 40) 8.2 Network (page 59)
Configure Advanced Functions	Configure the advanced functions, such as VCA and people counting.	<u>8.4 Event (page 84)</u>

Chapter 4. Network Connection

4.1 Setting the Camera over the LAN

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

4.1.1 Connect the Camera to the PC Directly

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



4.1.2 Connect via a Switch or a Router

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



4.2 Dynamic IP Connection

Step1: Connect the network camera to a router;

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

Step3: On the router, set port forwarding. E.g. 80, 8000 and 554 ports. The steps for port forwarding vary depending on different routers. Please look up the router's user manual for assistance with port forwarding;

Step4: Apply a domain name from a domain name provider;

Step5: Configure the DDNS settings in the setting interface of the router;

Step6: Visit the camera via the domain name.



Chapter 5. Accessing the Network Camera

5.1 Assigning An IP Address

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

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

5.1.1 Assigning An IP Address Using Smart Tools

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

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

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

(, IF	PC Tools		Network			review (G Jøgrade			admin A Passwor Q Search h	ģ — □ × d ⊙
	No.	Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
с.	9	Network Camera	Active	1C:C3:16:27:6B:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373-PB	2022-03-11 20:	41.7.0.79	0
С	10	Network Camera	Active	1C:C3:16:2A:07:33	192.168.69.60	80	255.255.255.0	192.168.69.1	MS-C2967-X23R	. 2022-03-15 14:	45.7.0.80-LP	0
С	11	Network Camera	Active	1C:C3:16:20:10:43	192.168.69.61	80	255.255.240.0	192.168.69.1	MS-C2963-LPB	2022-03-03 13:	43.7.0.79-LP	0
С	12	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266-X4G	2022-03-15 11:	45.8.0.1-AIo	0
С	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
С	14	Network Camera	Active	1C:C3:16:24:60:AA	192.168.69.97	80	255.255.255.0	192.168.69.1	MS-C5375-EPB	2022-03-14 18:	41.7.0.76-r3	0
П	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
С	16	Network Camera	Active	1C:C3:16:2A:06:69	192.168.69.116	80	255.255.255.0	192.168.69.1	VMI-2MPX23IR	2022-03-11 21:	45.7.1.79	Θ
П	17	Network Camera	Active	1C:C3:16:24:60:F7	192.168.69.125	80	255.255.255.0	192.168.69.1	MS-C2975-PB	2022-03-10 20:	40.7.0.79-r7	0
С	18	Network Camera	Active	1C:C3:16:2B:5F:D2	192.168.69.128	80	255.255.255.0	192.168.69.1	MS-C8166-FILPC	2022-03-11 10:	45.7.0.79-LP	Θ
		•• ••										
0/37 Oper	rating Ir	Device Name: Net	work Cam	era IP: 192.168.6	9.204 Ports	80	Netmask:	255.255.255.0	Gateway: 19	2.168.69 .1	DNS: 8 .8 .8	i .8 Modify
							V2.4.0.4			🕒 Sa	ve 🗵	Clear

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

Select single camera:

K	0	, IP	°C Tools		Network	🛞 Setting	F	review (S Jpgrade			▲ admin A Password Q Search h	2 — □ ×
		No.	Device Name 🔺	Status	MAC	IP	Port	Netmask	Gateway	Model	Run-up Time	Version	Webpage
c	5	18	Network Camera	Active	1C:C3:16:2B:5F:D2	192.168.69.128	80	255.255.255.0	192.168.69.1	MS-C8166-FILPC	2022-03-11 10:	45.7.0.79-LP	0
C		19	Network Camera	Active	1C:C3:16:2B:C4:C9	192.168.69.134	80	255.255.255.0	192.168.69.1	MS-C2967-X23R	2022-03-14 14:	45.8.0.1-a2	0
C	5	20	Network Camera	Active	1C:C3:16:22:0B:53	192.168.69.135	80	255.255.255.0	192.168.69.1	MS-C2961-QELPB	2022-03-11 19:	43.7.0.79-LP	0
C		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
C	5	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-r12	<u>a</u>
1		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
C		25	Network Camera	Active	1C:C3:16:29:F5:8D	192.168.69.205	80	255.255.255.0	192.168.69.1	MS-C5365-PB	2022-03-07 14:	43.7.0.80-b	0
C	5	26	Network Camera	Active	1C:C3:16:29:B6:51	192.168.69.209	80	255.255.255.0	192.168.69.1	MS-C5361-HEPB	2022-03-06 10:	43.7.0.79-r12	0
C	1	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 pera	ting Ir	Device Name: (Net	work Cam	era 12 (192.168.6	9.204 Port:	80	Netmask:	255.255.255.0	Gateway: 💽	2.168.69 .1	DNS: 8 .8 .8	.8 todify
											<u> </u>	ve 🗵 🔇	

Select multiple cameras:

	4	Q,	PC Tools		Network	🛞 Setting	 F	Preview (J pgrade		Ladr A Pas Q Sea	₩ — nin sword arch here	
		No.	Device Name 🔻	Status	MAC	IP	Port	Netmask	Gateway	Model Run-up Time	Version	Webpage	
	C	9	Network Camera	Active	1C:C3:16:21:01:C4	192.168.5.191	80	255.255.255.0	192.168.5.1	MS-C2962 2022-02-08 15:	40.7.0.79-r7	0	
L	C	10	Network Camera	Active	1C:C3:16:27:6B:94	192.168.20.199	80	255.255.255.0	192.168.20.1	MS-C5373 2022-03-11 20:	41.7.0.79	0	
L		.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	
L		.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	- 66
L	•	.3	Network Camera	Active	1C:C3:16:2A:9B:26	192.168.69.67	80	255.255.255.0	192.168.69.1	MS-C8266 2022-03-15 11:	45.8.0.1-AIo	0	С
L		.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	
L	•	.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	
L		.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	8	
L		.7	Network Camera	Active	1C:C3:16:2A:06:69	192.168.69.116	80	255.255.255.0	192.168.69.1	VMI-2MPX 2022-03-11 21:	45.7.1.79	8	
I	C	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	
I	Ê												
I			🔵 Same IP	Start IP:	192.168.69 .96	Ports 80		Vetmask: 255.255	5.240.0	Gateway: 192.168.69 .1	DNS: 8 .8	.8 .8	
I	Оре	erating I	nformation							🚱 Activate 🛃 Export	Device List	Modify	
I	L												
	L												
										C	Save	Clear	

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

Note:

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

			- 🛞 —	-0-	- 9		adm	¢ — □ ×
	TPC TOOIS						Q Sea	rch here
	No. Device Name	Status MAC	IP 🔺	Port Netmask	Gateway	Model	Run-up Time	Version
	59 Network Camera	Inactive 1C:C3:16:24:09:D2	192.168.5.190	80 255.255.255.0	192.168.5.1	MS-C2964-FPB	17:48:04	a6 41.7.0.65-pwd-
	Notwork Oceanor	Activation			× 168.7.1	MS-C3762-FIPB	17:43:15 2018-12-24	a6 C
IPC Tools					168.5.1	MS-C4472-FIPB	15:00:51 2018-12-24	41.7.0.68-86
					168.7.1	MS-C2975-PB	17:02:43 2018-12-18	40.7.0.68 C
	3				168.2.1	MS-C2862-FPB	16:10:37 2018-12-21	a6 41.7.0.68-a6
	User Name: admin				168.5.1	MS-C2963-PB	16:44:30 2018-12-18 12:29:25	40.7.0.67-r21
	Password:				168.7.1	MS-C2972-FPB	2018-12-20	40.7.0.67-r10 🥑
	Confirm: (168.7.1	MS-C5372-FIPB	2018-12-18 22:18:58	41.7.0.67-ptz- dome-a6
	Security Ouestion 1: What's v	our father's name?		•	168.7.2	MS-C3772-FIPB	2018-06-15 17:10:58	41.7.0.65-r4 🜔
NVR Tools	Security Answer 1:				168.7.1	MS-C4482-PB	2018-12-20 16:15:03	41.7.0.65-pwd-
	Security Question 2: What's y	our father's name?		•			2010 07 04	
	Security Answer 2:				255.0	Gateway: 192.1	68.5 .1 D)	48.8.8.8
	Security Question 3: What's y	our father's name?		·	S	🕗 Activate 📥	Export Device L	list 🗙 Modify
	Security Answer 3:					(2)		· · · · · · · · · · · · · · · · · · ·
						$\mathbf{\tilde{\mathbf{v}}}$		
Calculators								
				(4)	Save		😐) sa	ve 💉 Clear
	L			V2.4.0.1-a8			Ŭ	

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

-			.:(× —	(- 6			\$ - □	ı ×
	, IF	PC Tools		letwork				Upgrade		adr 123 م Sea	nin 145678 Irch here	
	No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
C	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	
C	59	Network Camera	Active	1C:C3:16:20:00:EF	192.168.7.100	80	255.255.240.0	192.168.7.1	MS-C2862-FPB	2019-09-23 14:06:52	41.7.0.72-a5	C
C	60	Network Camera	Active	1C:C3:16:21:00:22	192.168.7.104	80	255.255.240.0	192.168.7.1	MS-C2962-FIPB	2019-09-02 03:22:14	40.7.0.69-r11	e
	61	Network Camera	Active	1C:C3:16:24:09:	192.168.7.114	80	255.255.240.0	192.168.7.1	MS-C2964-FPB	2019-09-30 08:55:39	40.7.0.72	6
C	62	Network Camera	Active	1C:C3:16:23:01:39	192.168.7.124	80	255.255.240.0	192.168.9.2	MS-C2962-FPB	2019-09-26 08:28:26	41.7.0.71-r35	C
0	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	6
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	6
0	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
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
С	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>c</u>	60	200十个边安2	Activo	10-02-18-21-22-	102 169 7 214	90	255 255 240 0	102 169 7 1	NS C2072 DB	2019-09-26	40 7 0 71 -15	c I
	386	Device Name: etwo	k Camer	a) IP: 192.168.7	.114) Port 80		Netmask: 25	5.255.240.0	Gateway: 192.1	68.7 .1 DN	S: 8.8.8	
								G	Activate	Export Device Lis	st 🗶 Modify	ļ,
								٩				
	1 20	19-09-30 09:10:53		ĩ	1C:C3:16:24:09:D2] Modi	fy IP:192.168.7.11	3->192.168.7.1	14 successfully.			
										🕒 Save	e 🛞 Clear	

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

- 6	Language English 🗸 🗸
Network Gamera Image: Constraint of the second se	
Copyright © 2022 Milesight, All Rights Reserved.	

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

5.1.2 Assign An IP Address via Browser

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

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

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

Internet Protocol Version 4 (TCP/IPv4)	Properties ? X
General	
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator
Obtain an IP address automatical	ly
O Use the following IP address:	
IP address:	192 . 168 . 1 . 10
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.1
 Obtain DNS server address auton Use the following DNS server add 	natically resses:
Preferred DNS server:	192.168.1.1
Alternate DNS server:	· · ·
Validate settings upon exit	Advanced
	OK Cancel

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

Advanced TCP/IP 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
	Add Edit Remove
Automatic metr	
	OK Cancel
TCP/IP Address	? <mark>×</mark>
IP address:	192.168.5.61
Subnet mask:	255 . 255 . 255 . 0
	Add Cancel

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

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



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

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



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

Step6: The change of default IP address is completed.

5.2 Accessing from the Web Browser

The camera can be used with the most standard operating systems and browsers. And the camera was upgraded to support Plugin-Free Mode. In Plugin-Free Mode, you can preview the video on the browser without plugin. Currently Plugin-Free Mode is supported in Firefox & Google Chrome & Safari & Edge browser for Windows system, MAC system, iOS system and Android system. Both H.265&H.264 video codec are supported in Plugin-Free Mode for camera, and it will play the secondary stream by default.



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

- For V4x.7.0.74 or above, you can enjoy Plugin-Free Mode without any configuration about the browser (Please upgrade the browser to the latest version).
- Currently you can only use the dewarping mode of fisheye cameras with plugin via Internet Explorer.
- For more details about set plugin-free mode of Milesight camera, please refer to <u>https://</u> milesight.freshdesk.com/a/solutions/articles/69000643388.

5.3 Accessing from Milesight Back-end Software

5.3.1 Accessing from Milesight NVR (Network Video Recorder)

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

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



5.3.2 Accessing from Milesight CMS (Center Management System)

Milesight Central Management System (CMS) is a central management system for Milesight network cameras and Milesight NVR. It is an intelligent surveillance solution for users to control up

to 256 devices, to remote preview and playback more conveniently. With high-efficient management performance, Milesight CMS software offers users a superior administration experience in such centralized system. Featured with friendly UI design, the intelligent video management system CMS allows users of all levels to setup and deploy solutions as easy as ABC. Moreover, E-map function provides users a smarter way to show the devices spatial distribution. The software could be downloaded from our website 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*.



5.3.3 Accessing from Milesight VMS Enterprise (Video Management System)

Milesight VMS Enterprise is a professional and intelligent video management software for businesses. Together with our cameras, it can simplify and freshen up your video surveillance. With advanced C/S architecture, it fulfills your demands and expectations, with rich core functions including live view, record, E-Map, event alarm and smart analysis etc. The software could be downloaded from our website https://www.milesight.com/.

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



Chapter 6. Live View

6.1 Fisheye Mode

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

Live view interface (Multi-Channel Mode):



Live view interface (Bundle-Stream Mode):



6.1.1 Operations on Live View Page

[Display Control]

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



Table 2. Description of Display Control buttons

Item	Parameter	Description	
Dowerning Bule	On-board Dewarping	Click to select on-board dewarping mode.	
	Client-side Dewarping	Click to select client-side dewarping mode.	
	Ceiling Mounting	Click to select ceiling mounting.	
Installation	I Wall Mounting	Click to select wall mounting.	
	Flat Mounting	Click to select flat mounting.	
	• 10	Select live view of original fisheye view.	
		Select live view of 360° panoramic view.	
	# 2P	Select live view of two 180° panoramic views.	
Display	4R	Select live view of four regional views.	
	103R	Select live view of one original fisheye view and three regional views.	
	1P3R (Only for Hardware Dewarping)	Select live view of one 360° panoramic view and three regional views.	

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

Item	Parameter	Description	
	100%	Click to display images at a real size	
	Real Size	Click to display images at a real size.	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Click to diaplay images at full across	
	Full Screen	Click to display images at full-screen.	

- Note:

- Original fisheye view: the whole wide-angle view of the fisheye camera is displayed.
- Panoramic view: the round fisheye image is transformed to rectangular image by certain calibration methods.
- Regional view: the close-up view of defined area in the original fisheye view or panoramic view.
- Select the Installation, Display mode and the most appropriate Window Layout in sequence.

[Live View Window]

Display live video on the window.

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

 Table 3. Description of the buttons

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

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

No.	Parameter	Description
14	© Snapshot	Click to capture the current image and save to the configured path. The default path is: C:VMS\+-1\ IMAGE-MANUAL.
15	Start/Stop Recording	Click to Start Recording video and save to the configured path. The default path is C:VMS\+-1\MS_Record. Click again to Stop Recording .
16	Q Digital Zoom	When enabled, you can zoom in a specific area of video image with your mouse wheel.
17	Manual Output	Manually trigger Camera Alarm Output.
	×	Brightness: Adjust the Brightness of the scene.
	00	Contrast: Adjust the color and light contrast.
	©o	Saturation : Adjust the Saturation of the image. Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out".
1	↔	Sharpness : Adjust the Sharpness of image. Higher Sharpness sharps the pixel boundary and makes the image looks "more clear".
	-/- <u> </u>	2D DNR/3D DNR: Adjust the noise reduction level.
	*0	Default: Restore brightness, contrast and saturation to default settings.

[PTZ Control]

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

Table 4.	Description	of the	buttons
----------	-------------	--------	---------

No.	Parameter	Description
Of I	PTZ Control	Navigation key is used to control the direction. The rotation key is used for auto-rotation.

No.	Parameter	Description
	PTZ Speed	To adjust the speed of pan/tilt movements, from 1 to 10 .
	Zoom-/Zoom+	Click to zoom in and zoom out.
	ਿੱਟ⊙	 Auto Tracking: With this option enabled, the camera can perform the digital Pan/Tilt/Zoom to track the moving objects automatically. Note: Auto Tracking is only supported in regional views. Auto Tracking is only supported in ceiling mounting mode of onboard dewarping mode.
	Ŷ	Enable to set the preset positions for each regional view channel.
	•	Enable to set the patrol paths for each regional view channel.

6.1.2 Set / Call a Preset / Patrol

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

Set a preset:

Note: The Preset only can be set while the display is 4R.

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;

	Q	۲		
001	road		B	XØ
002	Pres	et 2		Ē
003	Pres	et 3		B
004	Pres	et 4		B
005	Pres	et 5		ä
006	Pres	et 6		ä
007	Pres	et 7		B
800	Pres	et 8		ä
009	Pres	et 9		ä
010	Pres	et 10		ä
011	Prese	et 11		i
012	Pres	et 12		ä
013	Pres	et 13		ä
014	Pres	et 14		ä
015	Pres	et 15		ä
016	Pres	et 16		a
017	Pres	et 17		a
018	Pres	et 18		ä
019	Pres	ot 19		E



Path	n 1		+ × ↑ ↓
ļ	Prese	et	Speed Time
01	1	\sim	30 ~ 15
02	2	~	30 ~ 15
03	3	~	30 ~ 15
Save			Cancel



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 \bowtie to call the preset.

	O	
001	road	$\mathbb{B} \times \mathbb{A}$
002	Preset 2	B
003	Preset 3	B
004	Preset 4	B
005	Preset 5	B
006	Preset 6	B
007	Preset 7	B
800	Preset 8	6

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 ⁽²⁾, click it;

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

Path 1 + × ↑ ↓					
Preset		Spee	ed	Time	
01	1 ~	30	~	15	
02	2 ~	30	~	15	
03	3 ~	30	~	15	
	Save		Cancel		

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

Table 5. 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 \blacktriangleright to call the patrol, as shown below.

(Ŷ	0		
001	Path 1		Ø	×
002	Path 2	2		Ø
003	Path 3	3		Ø
004	Path 4	1		Ø
005	Path 5	5		Ø
006	Path 6	6		Ø
007	Path 7	7		Ø
800	Path 8	3		Ø

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

Chapter 7. Playback

Click or 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 \rightarrow to locate the playback point in the
• 00:00:00	filed. You can also click \bigcirc 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 6. Description of the buttons

No.	Parameter	Description		
	≪ < 2022 April > ≫ Sun Mon Tue Wed Thu Fri Sat	Choose date to search recorded videos.		
	27 28 29 30 31 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16			
QSearch	17 18 19 20 21 22 23 24 25 26 27 28 29 30	Search the recorded videos by record type (All/General/ Basic Event/VCA Event/People Counting). The timeline		
	01 02 03 04 05 06 07 Record Type ☑ All	below:		
	☑ General ☑ Basic Event ☑ VCA Event ☑ People Counting Search Cancel	General Basic Event VCA Event People Counting		
	∢ , ▶ , 1X	Adjust the speed of video playback. Speed Down: Includes 0.5X and 0.25X for Play.		
1	Speed Down/Speed Up/Speed	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 7. Description of the buttons

No.	Parameter	Description
1	با ی 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.

Step4: If the recording contains the original fisheye view(1O), it supports client-side dewarping based on the original view in the playback interface. Click to play the video files, then you can select

different installation modes and display modes as shown below. It also supports PTZ function for panoramic view and regional views.





Chapter 8. Settings

8.1 Media

8.1.1 Video

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

Multi-Channel Mode:

Mile	esight ∙Network Cam	era						🌐 English 🗸 💄 admin 🗸
	Media Video Image	~	Display Mode	→ ↔ 1 2	==	:		8
lacksquare	Network	>	Record Stream Type	General		Even	t	
¢	E Storage		Video Codec	H.264	•	H.264	~	
	Tisheye		Frame Size	3000*3000	~	3000*3000	~	
	S Event	>	Maximum Frame Rate	25	•	25	~	fps
	System	>	Bit Rate	8192	•	10240	×	k0ps
			Smart Stream	or	•	Off	~	
			Bit Rate Control	CBR	~		~	
			Profile	Main	~	Main	~	
			I-frame Interval	50		50		frame(1-120)
				Save				

Bundle-Stream Mode:

Mil	esight ·Network Carr	nera						🕀 English 🗸	💄 admin 🗸
•	Media Video Image Audio	~	Display Mode	↔ ↔ 1 2					
e	Wetwork Wetwork	>	Enable	General		Event 🗸			
Ø	E Storage		Video Codec	H.264	~	H.264	~		
	🗑 Fisheye		Frame Size	3000*3000	~	3000*3000	×		
	la Event	>	Maximum Frame Rate	25	*	25	∽ fps		
	🗷 System	>	Bit Rate	8192	~	10240	∨ kbps		
			Smart Stream	Off	*	Off	v		
			Bit Rate Control	CBR	×		×		
			Profile	Main	~	Main	×		
			I-frame Interval	50		50	frame(1-120)		
				Save					

Table 8. Description of the buttons

Parameters	Function Introduction
Channel (Only for Multi-Channel Mode)	The number of channels are variable according to the selected display mode. 10 and 1P display one channel. 2P displays two channels. 4R, 1O3R and 1P3R display four channels. 101P3R displays five channels.
Display Mode	10/1P/2P/4R/103R/1P3R are available
Stream Type (Only for Multi-Channel Mode)	Primary Stream/Secondary Stream are available.
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. Note: For more details about Milesight-H.264 VS H.265+, you can click to the YouTube: https://www.youtube.com/watch?v=Wkom8HQ00jl

Parameters	Function Introduction
	For Multi-Channel Mode:
	4000*3000, 3000*3000, 2560*2560, 1920*1920, 1280*1280,1280*960, 1024*1024, 720*720, 320*320 are available frame size for original fisheye view in 1O.
	2560*2560, 2560*640, 1920*1920, 1920*480, 1280*1280 are available frame size for original fisheye view in 1O3R and 1O1P3R.
	3000*752, 2560*, 2560*640, 1920*480, 1280*320, 960*240 are available frame size for 360° panoramic view in 1P, 1P3R and 1O1P3R.
	2560*640, 1920*480 are available frame size for 360° panoramic view in 1O1P3R.
	3000*1680, 2688*1520, 2592*1460, 1920*1080, 1280*720 are available frame size for two 180° panoramic views in 2P.
Frame Size	1920*1080, 1280*720, 640*480 are available frame size for regional view.
	For Bundle Stream Mode:
	4000*3000, 3000*3000, 2560*2560, 2592*1944, 1944*1944, 1920*1920, 1536*1536, 1280*1280 are available frame size for 1O.
	3000*752, 2592*648, 2560*640, 1920*480, 1280*320 are available frame size for 1P.
	3000*1680, 2688*1520, 2592*1460, 1920*1080, 1280*720 are available frame size for 2P.
	4000*3000, 3840*2160, 3072*1728,2592*1944, 2304*1296 are available frame size for 4R, 1O3R and 1P3R.
	Note: For the Fisheye model in the AI series, it supports up to 3000*3000 (12MP fisheye model) or 2144*2144 (4K fisheye model) of Frame Size.
Maximum Frame Rate	Maximum refresh frame rate of per second and it is variable according to the mode.
	Transmitting bits of data per second, this item is optional only if you select the H.265/ H.264
Bit Rate	Set the bitrate to 32~16384 Kbps. The higher value corresponds to the
	higher video quality, and the higher bandwidth is required as well.
Smart Stream	Optional to turn On/Off Smart Stream mode. Smart Stream mode remarkably reduces the bandwidth and the data storage requirements for network cameras while ensuring the high quality of images, and it is a 10-level adjustable codec.
Bit Rate Control	CBR : Constant Bitrate. The rate of CBR output is constant.

Parameters	Function Introduction
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.

8.1.2 Image

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

8.1.2.1 General

General settings of image including the image adjustment, day/night switch, day/night parameters, exposure, backlight, white balance, image enhancement and Display can be set in this module.



[Image Adjustment]

Mil	esight ·Network Cam	nera		🕀 English 🗸	💄 admin 🗸	ſ
	esight Network Cam de Media Viceo Image Audio De Network Storage Fisheye Storage Storage Storage	nera ~ >	Ceneral OSD Privacy Mask ROI Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment Image Adjustment	⊕ English ∨	2 admin ~	
			DayNight Switch > DayNight Parameters > Exposure > Backlight > White Balance > Image Enhancement > Display >			

Table 9. Description of the buttons

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

[Day/Night Switch]

Mile	sight Network Ca	nera				🌐 English 🗸	💄 admin 🗸
∎ ⊙ @	Media Video Image Audio Network Storage Storage Fisheye	~	General OSD Privacy Mask ROI	Image Adjustment DayNlight Switch DayNlight Switch Mode Day to Night Value	> Night Day Auto Customize 20 Reset		
	ତ୍ତ Event 🕲 System	>	Shaft Stroam Ope Current Convectors 3	Night to Day Value IR Light Sensor Value Smart IR Mode	60 Reset		
				Mode Near View IR Level Far View IR Level IR Strength Value Day/Night Parameters Exposure Backlight White Balance	Customize Reset Reset Reset Near.0 Far.0		

Table 10. Description of the buttons

Parameters	Function Introduction
	Night Mode: Shown in live view based on Night Mode settings.
	Day Mode: Shown in live view based on Day Mode settings.
Day/Night Switch	Auto Mode: Shown in live view based on environment, set the sensitivity for switching Day Mode to Night Mode, or Night Mode to Day Mode.
	Customize: Shown in live view based on your own settings' time to start/end Night Mode.
	Note: There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with the modes.
	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.
Day/Night Switch	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.
	Note: The three buttons are optional only if you select Auto Mode.

Parameters	Function Introduction
Day/Night Switch	Start Time of Night: You can set the time for start the Night Mode. End Time of Night: You can set the time for start the Day Mode. Image: Start/End Time of Night are optional only if you select Customize Mode.
Smart IR Mode	Support to set the strength of the IR to Customize to achieve the best effect. Near View IR Level: Adjust the light strength of Low-Beams LED light level from 0 to 100. Far View IR Level: Adjust the light strength of High-Beams LED light level from 0 to 100. Image: Note: • Near/Far View IR Level are only available in MS-C9674-PA. • Near/Far View IR Level are optional only if you select Customize Mode of Smart
	Reset to reset the light strength to 50. IR Strength Value: The current value of Low-Beams LED and High-Beams LED light value.

[Day/Night Parameters]

Mile	esight Network Came								🕀 English 🗸	💄 admin ~
	🖧 Media	General OSD Privacy Mask ROI								,
	Video									
	Image	Toenien 12 Oue12 Sum 14 Capacitutes	Image Adjustment					>		
\odot	Audio		Day/Night Switch					>		
	Network		Day/Night Parameters					~		
ø	E Storage			🔆 Day		🖌 Night				
	🐨 Fisheye	Video Contec H 201 Smart Stream Off	Exposure Level	5	~	5	~			
	S Event	Current Connections:3	Minimum Shutter	1/30	~	1/30	~			
	System		Maximum Shutter	1/100000	~	1/100000	×			
			Limit Gain Level	100		100				
			IR-CUT Latency	55	~	5s	~			
			IR-CUT	On	~	or	~			
			IR LED	off	~	On	~			
			Color Mode	Color	~	B/W	~			
				Deest		Deed				
				Reset		Reset				
			Advanced Schedule Mode							
			Exposure					>		
			Backlight					>		
			White Balance					>		
				Save						

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.
Advanced Schedule Mode	Here you can customize your special demands for different time, then the Day mode and Night mode will switch automatically according to your settings.

Table 11. Description of the buttons

[Exposure]



Table 12. 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 environment automatically. Manual Mode: The camera will adjust the brightness according you set, you can set the exposure time from 1~1/100000s, the is, the brighter the image is. Schedule Mode: You can customize the schedule to enable/of Mode and Manual Mode. 	to the light ng to the value e higher the value disable Auto
Exposure Mode	Edit	→ Auto Mode ✓ Manual Mode

[Backlight]



Table 13. Description of the buttons

Parameters	Function Introduction	
	Single Mode: Set single mode for BLC/WDR/HLC. 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 contend the schedule to enable/disable BLC/WDR/HLC mode.	ode/Night sustomize
	Edit ×	
Backlight Mode	0 2 4 6 8 10 12 14 16 18 20 22 24 Sun. Mon.	

[White Balance]

Mill	esight Network Came	era \oplus E	English 🗸	💄 admin 🗸
	ළී Media Video	General OSD Privacy Mask ROI		
	Image	Image Adjustment		
\odot	Audio	Day/Night Switch		
a [®]	Storago	Day/Nght Parameters		
Ť	E Stolage	Exposure >		
	₩ Fisheye	Smart Stream Off		
	Event	Current Consections 3 White Balance		
	System	Mode General O Schedule		
		Schedule Settings		
		Manual White Balance Settings		
		Red Gain Level 33		
		Blue Gain Level 50O		
		Image Enhancement		
		Display		
		Save		

 Table 14. Description of the buttons

Parameters	Function Introduction
	To restore white objects, removed color distortion caused by the light of the environment.
	Auto White Balance: This option will automatically enable the White Balance function.
	Manual White Balance: Set Red Gain Level and Blue Gain Level manually.
	Incandescent Lamp: Select this option when light is similar with incandescent lamp.
	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.
White Balance	Schedule mode: Select this option that you can customize the schedule to enable/ disable above modes.
	Edit ×
	Non. 12 14 16 18 20 22 24 Mon. 10 12 14 16 18 20 22 24 Mon. 10 10 12 14 16 18 20 22 24 Mon. 10 10 10 14 16 18 20 22 24 Mon. 10 10 10 14 16 18 20 22 24 Wed. 10 <td< td=""></td<>

[Image Enhancement]



Table 15. Description of the buttons

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

[Display]



Table 16. 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.

8.1.2.2 OSD

Mill	esight ∙Network Ca	nera		🕀 English 🗸	💄 admin 🗸
	🖧 Media	v	General OSD Privacy Mask ROI		
Ē	Video Image		Video Stream Video Stream V		
\odot	Audio		Regular		
<u>^</u>	Hetwork	>	Font Size Smallest		
ø	E Storage		Fort Color		
	🐨 Fisheye		Video Celus II Lus Creat Stemp Of		
	5 Event	>	Current Convertions 3		
	System	>	Video Title		
			Show Video Title		
			Text Position Top-Left ~		
			Timestamp		
			Show Timestamp		
			Date Position Top-Left ~		
			Date Format YYYY-MM-DD V		
			Copy to Other Streams 2		
			Save		

Table 17. 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.
	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:
Background Color	2022-04-05 22: 37: 32 Fisheye Fisheye Bibleye
Show Video Title	Check the check box to show video title.
Video Title	Customize the OSD content.
Text Position	OSD display position on the image.
Show Timestamp	Check the checkbox to display date on the image.
Date Position	Date display position on the image.
Date Format	The format of date.
Copy to Other Streams	Copy the settings to other streams.

8.1.2.3 Privacy Mask

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

[Privacy Mask]



Note:

• For the fisheye model, it only supports black color for Privacy Mask.

 Table 18. Description of the buttons

Parameters	Function Introduction
Enable	Check the check box to enable the Privacy Mask function.
Туре	Black mask type are available for fisheye camera.
Add	Drew a privacy area on the live video as needed.
Clear	Clear the area you drew on the live video.
Delete All	Clear all areas you drew before.

8.1.2.4 ROI

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

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

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



Table 19. 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.

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

= Note:

- You can set a low bit rate. For example, you can set a bit rate with 512Kbps and a resolution with 1080P, then you can see the image quality of ROI is more clear and fluent than the other region.
- ROI function will be disabled when the resolution of fisheye camera is 4K and above.

8.1.3 Audio

8.1.3.1 Audio

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



Table 20. 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.
	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 256kbps.
	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

8.1.3.2 Auto File Management

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

Mile	<i>esight</i> ∙Network Came	a	⊕ English ∽	💄 admin 🛩
	🚔 Media	Audio Audio File Management		
<u>نما</u>	Video Image	Audio File Storage Type Flash		
\odot	Audio Network	Flash Audio File ① SD		
ø	E Storage	ID Audio File Name Delete		
	S Event	No Data		
	e loT	Add		
	System			

Note:

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

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

8.2 Network

8.2.1 Basic

8.2.1.1 TCP/IP

Mill	esight Network Camera	3	🕀 English 🗸	💄 admin 🗸
	🖧 Media 🔹 👌	TCPIIP HTTP RTSP UPIP DDNS Email FTP		
۲	⊕ Network ~	IPv4		
\odot	Basic Advanced	Type Static O DHCP		
۵	E Storage	IP Address 192 . 168 . 69 . 66 Test		
ŵ	Event >	IPv4 Subnet Mask 255 . 255 . 0		
	@ System >	IPv4 Default Gateway 192 . 168 . 69 . 1		
		Preferred DNS Server 8 . 8 . 8 . 8		
		IPv6		
		IPv6 Mode Manual V		
		IPv6 Address		
		IPv6 Pretix		
		IPv6 Default Gateway		
		Тити		
		MTU 1500 1200-1500 Bytes		
		Save		

 Table 21. Description of the buttons

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.
	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
МТО	Maximum Transmission Unit. The default value is 1500. You can customize the value from 1200 to 1500 as needed.
Save	Save the configuration.

8.2.1.2 HTTP

Mill	e <i>sight</i> ∙Network Camer	а		🕀 English 🗸	💄 admin 🗸
	🖧 Media 🕠	TCP/IP HTTP	RTSP UPhP DDNS Email FTP		
•	Wetwork Network Network	НТТР			
\odot	Basic Advanced	Enable			
,¢	E Storage	Port	80		
U	5 Event	HTTPS			
	🖉 System 🗳	Enable			
		Port	443		
		Installed Certificate	C=US, H/IP=IPC Reset		
		Attributes	Avarade to: C-VLS, HIP-IPC Issuer: C-VLS, HIP-IPC Pendo d' Valdity: Aug 19 10:57:12 2023 Create a Private Cettificate Create Save		

٦

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 22. Description of the buttons

8.2.1.3 RTSP

Mile	esight ·Network Camera		🕀 English 🗸	💄 admin 🗸
	🖧 Media 🔹	TCP/IP HTTP RTSP UP/IP DDNS Email FTP		
≧ ⊛	Network Basic Advanced	RTSP Part 554 ①		
, O	😫 Storage	RTP Packet Better Compatibility		
U C	S Event	Multicast Group Address 239 . 6 . 6 . 6		
	ত্র System >	QoS DSCP(0.63) 0		
		Συν		

 Table 23. 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.
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 24. RTSP URL are as below:

Stream	URL
Primary Stream	rtsp://IP:RTSP Port/main
Secondary Stream	rtsp://IP:RTSP Port/sub
Channel 01	rtsp://IP:RTSP Port/main
Channel 02	rtsp://IP:RTSP Port/sub
Channel 03	rtsp://IP:RTSP Port/third
Channel 04	rtsp://IP:RTSP Port/fourth
Channel 05	rtsp://IP:RTSP Port/fifth

Note:

- The RTSP URL for Primary Stream and Secondary Stream of fisheye camera is optional when transfer mode is bundle-stream mode.
- The RTSP URL for Channel 01/02/03/04/05 of fisheye camera is optional when transfer mode is multi-channel mode
- DSCP refers to the Differentiated Service Code Point; and the DSCP value is used in the IP header to indicate the priority of the data.
- A reboot is required for the settings to take effect.

8.2.1.4 UPnP

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

1 ile	e <i>sight</i> ∙Network Cam	era					
	🖧 Media	>	TCP/IP HTTP	RTSP UPn	P DDNS	Email FTP	
•	 Network Basic Advanced 	~	Enable Port Mapping	~			
<u>_@</u>	E Storage		Enable Port Mapping				
	5 Event	>	Name	UPnP			
	🖉 System	>	Туре	Auto	×		
			Protocol Name	Exterr	nal Port	Internal Port	Status
			HTTP	212	02	80	Invalid
			HTTPS	222	02	443	Invalid
			RTSP	232	02	554	Invalid
			Playback	252	02	555	Invalid
			Save				

Table 25. 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.

8.2.1.5 DDNS

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

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

Mile	e <i>sight</i> ·Network Came	na	🕀 English 🗸	💄 admin 🗸
	🖧 Media	TCP/IP HTTP RTSP UPnP DDNS Email FTP		
•	Network Basic	Enable		
•	Advanced Storage	External HTTP Port 80		
ø	5 Event	External RTSP Port 554		
	🖉 System	External Playback Port 555		
		Status — DONS URL http://doms.milesight.com/2AB1E6 Save		

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

 Table 26. 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.

Parameters	Function Introduction
Hash	A string used for verifying, only for "freedns.afraid.org".
User name	Account name from the DDNS provider, unavailable for "freedns.afraid.org".
Password	Account password, unavailable for "freedns.afraid.org".
Host name	DDNS name enabled in the account.
Status	Display DDNS running status.
Save	Save the configuration.

Note:

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

8.2.1.6 Email

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

Mill	esight Network Came	а		🕀 English 🗸	💄 admin 🗸
	🖧 Media	TCP/IP HTTP RTS	P UPNP DDNS Email FTP		
≧ ⊙	 Network Basic Advanced 	Enable User Name	2 1013658401@qq.com		
	E Storage	Sender Emall Address	1013698401@qq.com		
	5 Event	Password	••••• •		
	🖉 System	Email Server	smlp.qq.com		
		Email Port	25		
		Recipient Email Address1	alba@milesight.com		
		Recipient Email Address2			
		Encryption	ONOR SSL TLS		
		Snapshot Settings			
		Alarm Snapshot File Name	YYYY-MM-DD Y		
		Timing Snapshot File Name	YYYY-MM-OD Y		
			Save Test		

 Table 27. Description of the buttons

Parameters	Function Introduction					
Enable	Check the checkbox to enable Email function.					
User Name	The sender's name. It is usually the same as the account name.					
Sender Email Address	Email address to send video files attached emails.					
Password	The password of the sender.					
Email Server	The email server IP address or host name(e.g. smtp.gmail.com).					
Email Port	The default TCP/IP port for SMTP is 25(not secured). For SSL/TLS port, it depends on the mail you use.					
Recipient Email Address1	Email address to receive video files.					
Recipient Email Address2	Email address to receive video files.					
Encryption	Check the checkbox to enable SSL or TLS if it is required by the SMTP server.					
Snapshot Settings	Alarm Snapshot File Name: Default(YYYY-MM-DD) /MM-DD-YYYY/ DD- MM-YYYY/ Add prefix/ Overwrite with the base file name/ Customize are available. Timing Snapshot File Name: Default(YYYY-MM-DD) /MM-DD-YYYY/ DD- MM-YYYY/ Add prefix/ Overwrite with the base file name/ Customize are available.					
Save	Save the configuration.					
Test	Test whether the configuration is successful.					

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

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

8.2.1.7 FTP

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

Mile	esight Network Carr	era				🌐 English 🗸	💄 admin 🛩
	🖧 Media	>	TCP/IP HTTP RTSP	P UPnP DDNS Email	FTP		
•	Metwork	~	FTP Server Settings				
\odot	Basic Advanced		FTP Туре	FTP v			
în	E Storage		Server Address	192.168.70.97			
Ø	5 Event	>	Server Port	21			
	System	>	User Name	alba			
			Password	©			
			FTP over SSL/TLS(FTPS)				
			FTP Storage Settings				
			Storage Path	Root Directory ~			
			Alarm Action File Name	Default(YYYY-MM-DD) ~			
			Timing Snapshot File Name	YYYY-MM-DD v			
			Pre Second	0 s ~			
				Save Test			

Table 28.	Description	of the buttons
-----------	-------------	----------------

Para	meters	Function Introduction				
	FTP Туре	FTP and SFTP are optional.				
	Server Address	FTP/SFTP server address.				
FIP Server Settings	Server Port	The port of the FTP server. Generally it is 21. The port of the SFTP server. Generally it is 22.				

Para	meters	Function Introduction				
	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.				
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.				
	Multilevel Folder Name	If the storage path is more than two levels, enter Multilevel FTP storage path here manually.				
	Alarm Action File Name	Choose the default(YYYY-MM-DD) or customize the alarm action file name.				
FTP Storage Settings	Video File Name	If you choose to customize the alarm action file name, YYYY-MM- DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.				
	Image File Name	If you choose to customize the alarm action file name, YYYY-MM- DD/ MM-DD-YYYY/ DD-MM-YYYY/ Add prefix are available.				
	Timing Snapshot File Name	Default(YYYY-MM-DD) /MM-DD-YYYY/ DD-MM-YYYY/ Add prefix/ Overwrite with the base file name are available.				
	Pre Second	Reserve the record time before alarm, 0~10 sec.				
s	Save	Save the configuration, 0s ~ 10s are optional.				
	Test	Test whether the configuration is successful.				

Note:

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

• You can refer to the following file name tip to customize the file name.

8.2.2 Advanced

8.2.2.1 VLAN

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

Mile	e <i>sight</i> ·Network Cam	era		🕀 English 🗸	💄 admin 🛩
	🖧 Media	>	VLAN PPPoE SNMP 602.1x Bonjour RTMP SIP More		
▲	 Network Basic Advanced 	~	Enable		
, é	🖴 Storage		VLAN IP		
0	5 Event	>	VLAN Netmask		
	ee loT	>	VLAN Gateway		
	I System	>	Save		

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

8.2.2.2 PPPoE

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

Mill	e <i>sight</i> ∙Network Can	nera											🕀 English 🗸	💄 adm	nin 🗸
	🖧 Media	>	VLAN PPPoE	SNMP	802.1x	Bonjour	RTMP	SIP	More						
۲	Network	~	Enable												
$\mathbf{\Theta}$	Basic		Dynamic IP												
Ŭ	Storage		Licor Namo												
ø			oser Name												
	Event	>	Password												
	፼ loT	>	Confirm Password												
	System	>		Save											

Note:

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

8.2.2.3 SNMP

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

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

Milesight Network Camera 🕀 🖲							🕀 English 🗸	💄 admin 🗸		
	🖧 Media	>	VLAN PPPoE S	SNMP 802.1x Bonjour	RTMP SIP	More				
⊡ ම	Network	~	SNMP v1/v2							
	Basic Advanced		Enable SNMP V1							
	Storage		Enable SNMP V2c							
	5 Event	>	Write Community	public						
	@ IoT	>	Read Community	private						
	System	>	SNMP v3							
			Enable SNMP V3							
			Level of Security	no auth no priv.						
			Write Security Name							
			Level of Security	no auth,no priv 🗸 🗸						
			SNMP Port							
			SNMP Port	161						
				Save						

Table 29. Description of the buttons

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

8.2.2.4 802.1x

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

Milesight · Network Camera 🕀 English 🗸 💄 admin 🤟							
	🖧 Media 🔹	VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More					
	Network Hasic	Enable					
U	Advanced	Protocol EAP-MDS V					
¢۵.	🗃 Storage	Eapol Version 1 V					
	To Event >	User Name					
	e lot >	Password					
	System >	Confirm Password					
		Sve					

8.2.2.5 Bonjour

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

If you don't know the camera information, you can use the Bonjour service on the same LAN to search for network camera devices and then to access the devices.
Mil	esight Network Came	ra	🕀 English 🗸	💄 admin 🗸
	🖧 Media	VLAN PPPOE SNMP 802.1x Banjour RTMP SIP More		
•	Network	Enable		
\odot	Basic Advanced	Bonjour Name MIS-CI266 X4GOPC-1CC3162A5		
ھر	E Storage	Save		
©.	5 Event			
	፼ loT			
	System			

8.2.2.6 RTMP

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





- 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://milesight.freshdesk.com/a/solutions/articles/69000643313</u>.

8.2.2.7 SIP

The Session Initiation Protocol(SIP) is a signaling communications protocol, widely used for controlling multimedia communication sessions such as voice and video calls over Internet Protocol (IP) networks. This page allows user to configure SIP related parameters. Milesight can be configured as SIP endpoint to call out when alarm triggered; or allow permitted number to call in to check the video if the video IP phone is used.

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

A ile	esight Network	Camera									
	🖧 Media	>	VLAN PP	PoE	SNMP	802.1x	Bonjour	RTMP	SIP	More	
	Network	~	SIP Setting	gs							>
\odot	Basic Advanced		Alarm Pho	one List							>
<u>_</u> @	Storage		White List								•
	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]

<i>sight</i> ·Network Came	era						🕀 English 🗸	💄 admin 🗸
🖆 Media	>	VLAN PPPoE SNM	P 802.1x Bonjour	RTMP	SIP More			
Network Basic Advanced	~	SIP Settings Enable			~	•		
E Storage		Register Mode	Enable	~				
S Event	>	User ID	500					
⊡ IoT	>	User Name	sipclient					
System	>	Password						
		Server Address						
		Server Port	5060					
		Connection Protocol		~				
		Video Stream	Primary Stream	~				
		Enable Audio in SIP Call						
		Max Call Duration		s	(0 means no limitation.)			
		Status	Unregistered					
		Alarm Phone List			>			
		White List			>			
		Save						
	sight - Network Cam Network	sight-Network Camera Network Camera Network Satisfield Network Satisfield	Sight - Network Camera Image: Storage Image: Storage <t< th=""><th>Sight-Network Camera Image: Image:</th><th>Sight Network Camera Image VLAN PPPE SNAP 802.1x Benjour RTMP Image Image</th><th>Sight Network Camera Image: Storage Image: Storage</th><th>Sight Network Camera Image <tdi< th=""><th>\$index Image: Control of the set of the se</th></tdi<></th></t<>	Sight-Network Camera Image: Image:	Sight Network Camera Image VLAN PPPE SNAP 802.1x Benjour RTMP Image Image	Sight Network Camera Image: Storage Image: Storage	Sight Network Camera Image Image <tdi< th=""><th>\$index Image: Control of the set of the se</th></tdi<>	\$index Image: Control of the set of the se

Table 30.	Descripti	ion of th	e 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.

Parameters	Function Introduction					
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.					
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]



 Table 31. Description of the buttons

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

[White List]

1 ile	e <i>sight</i> ·Network Ca	amera									
	🖧 Media	>	VLAN	PPPoE	SNMP	802.1x	Bonjour	RTMP	SIP	More	
	Metwork	~	SIP 5	Settings							>
\odot	Basic Advanced		Alam	n Phone List							` >
Â	Storage		White	e List							~
Ø	5 Event	>	Ena	able White List	t Number Filter	e 🗌					
	图 System	>		SIP PI	hone	PI	hone Type		Delete		
							No Data				
				Add							
			Sav	ve							

Table 32. Description of the buttons

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

8.2.2.8 More

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



Table 33. Description of the buttons

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

8.3 Storage

8.3.1 Storage Management

Mile	e <i>sight</i> ∙Network Car	nera		🌐 English 🗸	💄 admin 🗸
	🖧 Media	~	Storage Management Record Settings Snapshot Settings Explorer		
•	Video		SD Card		
\odot	Audio		34.1%) 20.46G/59.46G Format		
	Hetwork	>	NAS		
ø	E Storage		No Server Address Directory Mounting Type Total Free User Name Status Operation		
	Event	>	No Data		
	System	>	Add		
			1		

Table 34. Description of the buttons

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

Parameters	Function Introduction
	The network disk should be available within the network and properly configured to store the recorded files, etc.
	NAS (Network-Attached Storage), connecting the storage devices to the existing network, provides data and files services.
	Add ×
	Server Address*
	Directory*
	Mounting Type NFS V
Nas	Save Cancel
	Server Address: IP address of NAS server.
	Directory: Input the NAS directory, e.g. "\path".
	Mounting Type: NFS and SMB/CIFS are available. And you can set the user name and password to guarantee the security if SMB/CIFS is selected.
	Note:
	 Up to 5 NAS disks can be connected to the camera. For more details about how to use NAS on Milesight Network Camera, please refer to <u>https://milesight.freshdesk.com/a/solutions/</u> <u>articles/69000797902</u>.

8.3.2 Record Settings

Mile	esight Network Camera	1	🕀 English 🗸	💄 admin 🗸
	🛱 Media 🔹	Storage Management Record Settings Snapshot Settings Explorer		
∎ ⊙ 8	Network Basic Advanced Storage	Storage Settings Enable Recycle Storage Pre Second 0 seconds		
	 ☑ Event → ☑ System → 	Schedulus Settings B 2 4 6 8 10 12 14 16 10 22 26 Sin Image: Schedulus Settings Image: Schedulus Settings		

Table 35. Description of the buttons

Parameters	Function Introduction		
Enable Recycle Storage	Enable/Disable Recycle Storage, if you enable this option, it will delete the files when the free disk space reaches a certain value.		
Pre Second	Reserve the record time before alarm, 0~10 sec.		
Schedule Settings	Edit record schedule as needed. Intuitive scheduling by drawing the time bar directly.		

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

Note: SD Card or NAS are available.

8.3.3 Snapshot Settings

Mile	esight Network Camera		🕀 English 🗸	💄 admin 🛩
	🚔 Media 🔹	Storage Management Record Settings Snapshot Settings Explorer		
۲	Network >	Snapshot Settings		
\odot	😫 Storage	Enable Timing Snapshot 🗹		
J	S Event	Interval 1 h v		
ø	System >	Save to storage (Please mount storage device.)		
		Upload Via FTP		
		Upload Via Email		
		HTTP Post		
		Schedule Settings		
		9 2 4 6 0 10 12 14 16 10 22 5 Sun. Mon. Image: Comparison of the second of the		

 Table 36.
 Description of the buttons

Parameters	Function Introduction		
	 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 		
Snapshot Settings	 time suffix or overwrite the base file name. Save Into NAS: Save the snapshots into NAS, and choose the file name to add time suffix or overwrite the base file name. Upload Via FTP: Upload the snapshots via FTP. Upload Via Email: Upload the snapshots via Email. Note: If you choose to add time suffix, every snapshot picture will be saved, but if you choose to overwrite the base file name, only one latest picture will be saved. When you choose add overwrite the base file name to SD Card or NAS, it will create a file name "Snapshot" to place the snapshot. HTTP Post: Upload the snapshots via HTTP Post. Support uploading the snapshots to specified HTTP URL. 		
Schedule Settings	Edit record schedule as needed. Intuitive scheduling by drawing the time bar directly.		
Schedule Settings	Copy To Image: Copy To Sun. Mon. Tue. Ved. Wed. Thu. Fri. Sat. Save Save		
	Select All Select all schedule.		

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

8.3.4 Explorer

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

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

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

Mile	esight Network Can	nera					🌐 English 🖌 💄 admin 🖌
	🖰 Media	>	Storage Management Record Settin	is Snapshot Settings Explorer			
•	Network	>	Main Type Record	Sub Type All Start Time	© 2022/03/25.00:00:00 End Time © 2022/03/25.23:59	-59	Search
ß	🗄 Storage						Contri
Ŭ	5 Event	>	File Name 120220325192231	2022-03-25 19:22:31	End Time 2022-03-25 19:27:35	Type	250.64M
ø	System	>	120220325192735	2022-03-25 19:27:35	2022-03-25 19:32:40	Timing	251.61M
			120220325193240	2022-03-25 19:32:40	2022-03-25 19:37:44	Timing	250.92M
			120220325193744	2022-03-25 19:37:44	2022-03-25 19:42:49	Timing	251.36M
			120220325194249	2022-03-25 19:42:49	2022-03-25 19:47:54	Timing	251.44M
			120220325194754	2022-03-25 19:47:54	2022-03-25 19:52:58	Timing	250.89M
			120220325195258	2022-03-25 19:52:58	2022-03-25 19:58:02	Timing	250.69M
			120220325195802	2022-03-25 19:58:02	2022-03-25 20:03:08	Timing	251.65M
			120220325200308	2022-03-25 20:03:08	2022-03-25 20:07:37	Timing	221.72M
						Total 9 300page	y < 1 > Goto 1
							Download

8.4 Event

8.4.1 Basic Event

8.4.1.1 Motion Detection



Note: For more details about how to set motion detection, please refer to <u>https://</u><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 37. Description of the buttons

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

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

[Basic Settings]

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

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

Table 38. Description of the buttons

[Schedule Settings]

Step5: Set motion detection schedule;



 Table 39. Description of the buttons

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

[Alarm Action]

Step6: Set alarm action;

Enable Detection		
Enable Motion Analysis		
Basic Settings		>
Schedule Settings		
Alarm Action		~
Record	>	
Snapshot	>	
External Output	>	
Play Audio (Please enable the Audio Speaker.)		
Alarm to SIP Phone (Please open the SIP.)		
HTTP Notification	>	
Save		

 Table 40. 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.
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

8.4.1.2 Audio Alarm

Check the check box to enable the Audio Alarm function.

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



[Basic Settings]

Table 41. 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 88)</u> for the meanings of the items, here will not repeat again.

[Alarm Action]

Refer to the table <u>Table 4 (page 89)</u> for the meanings of the items, here will not repeat again.

8.4.1.3 External Input

Mil	esight ·Network Camera		🕀 English 🗸	💄 admin 🗸
	ස් Media >	Motion Detection Audio Alarm External Input External Output Exception		
	Network >	Enable External Input		
\odot	🖹 Storage	Scharlus Quitinos		
	🗟 Event 🗸	Alam Action		
Ø	Basic Event VCA Event People Counting Face Detection Heat Map	Save		
	e lot >			
	ری System ک			

Refer to the table <u>Table 3 (page 88)</u> for the meanings of the items, here will not repeat again.

8.4.1.4 External Output

Mile	esight Network Camera		🕀 English 🗸	💄 admin 🛩
	🖧 Media 🔸	Motion Detection Audio Alarm External Input External Output Exception		
	Network >	Normal Status Settings		
\odot	E Storage	External Output Open O Grounded		
	ভ Event 🗸	Current Status Grounded		
ø	Basic Event VCA Event People Counting Face Detection Heat Map IoT → S System →	Manual External Output Manual Output External Output Action Time Manual Control Save		

[Normal Status Settings]

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

[Manual External Output]

You can set the manual external output.

Table 42. Description of the buttons

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

8.4.1.5 Exception



Table 43. 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 88)</u> for the meanings of the items, here will not repeat again.

8.4.2 VCA Event

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

📑 Note:

- Smart Event of fisheye camera only supports in 10 mode of Bundle-Stream mode and 10, 103R, 101P3R mode of Multi-Channel mode.
- For more details about how to use set VCA solution, please refer to <u>https://</u> milesight.freshdesk.com/a/solutions/articles/69000643371.
- For more details about how to configure the VCA function, please refer to <u>https://</u><u>milesight.freshdesk.com/a/solutions/articles/new?translate=false</u>.

8.4.2.1 Region Entrance

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



Settings steps are shown as follows:

[Detection Settings]

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

Step1: Selected detection region.

Step2: Enable region entrance detection.

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

[General Settings]

Step3: Set detecting sensitivity and object size limits;

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

Table 44. Description of the buttons

Parameters	Function Introduction
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results.
Min. Size	Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.
Max. Size	Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320*240.

[Schedule Settings]

Step4: Set detection schedule;



Table 45. 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]

Step5: Set alarm action;

Detection Settings					
General Settings					
Schedule Settings					
Alarm Action		~			
Record	>				
Snapshot	>				
External Output	>				
Play Audio	>				
Alarm to SIP Phone					
HTTP Notification	>				
Save					

Table 46. 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.

Parameters	Function Introduction
Alarm to SIP Phone	Support to call the SIP phone after enabling the SIP function.
HTTP Notification	Support to pop up the alarm news to specified HTTP URL.

8.4.2.2 Region Exiting

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



Settings steps are shown as follows:

[Detection Settings]

- **Note:** General Settings will take effect in all detection regions/lines!
- **Step1:** Selected detection region.
- **Step2:** Enable region exiting detection.

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

[General Settings]

Step3: Set detecting sensitivity and object size limits;

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

 Table 47. Description of the buttons

Parameters	Function Introduction
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results.
Min. Size	Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.
Max. Size	Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320*240.

[Schedule Settings]

Step4: Set detection schedule;

Detection Settings						>										
Genera	General Settings						>									
Schedule Settings							~									
	0	2	4		6	8		10	12	14	16	18	20	22	24	
Sun.																
Mon.																
Tue.																
Wed.																
Thu.																
Fri.																
Sat.																
	s	elect	All		Cle	ear Al	I									
Alarm A	Action															>
Save																

Note: This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 93*).

[Alarm Action]

Step5: Set alarm action;

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

Note: This part is the same as the regular alarm settings. You can refer to <u>Table 3 (*page 97*)</u>.

8.4.2.3 Advanced Motion Detection

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

Mill	e <i>sight</i> ∙Network Car	nera									🕀 English 🗸	💄 admin 🗸
	📇 Media	>	Region Entrance	Region Exiting	Advanced Motion Detection	Tamper Detection	Line Crossing	Loitering	Object Left/Removed			
•	Network	>										
6	🗄 Storage		Regi			Detection Sett	ings			>		
Ŭ	Tisheye					General Settin	igs			,		
Ô	5 Event	~			Bitrate 0.0kt ps	Alarm Action	nys			, ,		
	Basic Event VCA Event People Counting Heat Map C System	>	Clear		Resolution: 59/764 Video Code Antores Simo Composition Control Connections 1	Save						

Settings steps are shown as follows:

Step1: Selected detection region.

Step2: Enable advanced motion detection.

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

[General Settings]

Step3: Set Ignore Short-Lived Motion time. If you set the time, when the moving duration of an object is within the setting time, the alarm will not be triggered;

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

Step4: Set detecting sensitivity and object size limits;

Table 48. Description of the buttons

Parameters	Function Introduction
Ignore Short-Lived Motion	The alarm will not be triggered when the moving duration of an object is within the setting time. Off/1s/2s/3s/4s/5s are available. Note: Ignore Short-Lived Motion time is to avoid false alarm caused by instant object movement within time setting.
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results. Note: The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.
Min. Size	Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.
Max. Size	Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320*240.

[Schedule Settings]

Step5: Set detection schedule;

Note: This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 93*).

[Alarm Action]

Step6: Set alarm action;

Note:

- This part is the same as the regular alarm settings. You can refer to Table 3 (page 97).
- If you enable External Output and choose Constant External Output Action Time, when object motion time is longer than the Ignore Short-Lived Motion time which you set in the selected regions, External Output Action alarm time will be always constant till the alarm is released.

8.4.2.4 Tamper Detection

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

Mill	esight ·Network Camera	ra et	🕀 English 🗸	💄 admin 🗸
	ී Media >	Region Entrance Region Exting Advanced Motion Detection Tamper Detection Line Crossing Loitering Object Left/Removed		
E	Network Network			
$\mathbf{\Theta}$	Storage	Detection settings		
Ŭ	🗟 Event 🗸	Alam Artino		
ø	Basic Event VCA Event People Counting Heat Map	Save		
	System >)		

Settings steps are shown as follows:

Step1: Enable Tamper Detection and set detecting sensitivity;

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

[Schedule Settings]

Step2: Set detection schedule;

Note: This part is the same as the regular schedule settings. You can refer to $\underline{8.4.2.1 \text{ Region}}$ Entrance (*page 93*).

[Alarm Action]

Step3: Set alarm action;

Note:

- This part is the same as the regular alarm settings. You can refer to Table 3 (page 97).
- If you enable External Output and choose Constant External Output Action Time, when possible tampering is detected, External Output Action alarm time will be always constant till the alarm is released.
- The algorithm supports defocus detection in Tamper Detection function.

8.4.2.5 Line Crossing

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



Settings steps are shown as follows:

[Detection Settings]

Step1: Selected detection line.

Step2: Enable line crossing detection and define its direction.

Detection Settings		
Line	1 2 3 4	
Enable Detection		
Direction	A<>B ~	
General Settings		
Schedule Settings		
Alarm Action		
Save		

Note:

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

[General Settings]

Step3: Set detecting sensitivity and object size limits;

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

Table 49. Description of the buttons

Parameters	Function Introduction
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results.
Min. Size	Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.
Max. Size	Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320*240.

[Schedule Settings]

Step4: Set detection schedule;

Detectio	on Se	ettings											>
General Settings									>				
Schedule Settings										~			
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sun.													
Mon.													
Tue.													
Wed.													
Thu.													
Fri.													
Sat.													
	S	elect /	All	Cle	ear All								
Alarm A	Action												>
Save													

Note: This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 93*).

[Alarm Action]

Step5: Set alarm action;
Detection Settings		>
General Settings		>
Schedule Settings		>
Alarm Action		~
Record	>	
Snapshot	>	
External Output	>	
Play Audio (Please enable the Audio Speaker.)		
Alarm to SIP Phone (Please open the SIP.)		
HTTP Notification	>	
White LED	>	
PTZ Auto Tracking (Please Enable the Auto Tracking)		
Save		

Note:

- This part is the same as the regular alarm settings. You can refer to Table 3 (page 97).
- If you enable External Output and choose Constant External Output Action Time, when objects cross a defined virtual line, External Output Action alarm time will be always constant till the alarm is released

8.4.2.6 Loitering

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



Settings steps are shown as follows:

[Detection Settings]

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

Step1: Selected detection region.

Step2: Enable loitering detection.

Step3: Set Min. Loitering Time. After setting minimum loitering time from 3s to 1800s, any objects loitering in the selected area over the minimum loitering time will trigger the alarm;

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

[General Settings]

Step4: Set object size limits;

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

Table 50. Description of the buttons

Parameters	Function Introduction
Min. Size	Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.
Max. Size	Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320*240.

[Schedule Settings]

Step4: Set detection schedule;

Note: This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 93*).

[Alarm Action]

Step5: Set alarm action;

Note:

- This part is the same as the regular alarm settings. You can refer to Table 3 (page 97).
- If you enable External Output and choose Constant External Output Action Time, when objects loiter in the selected regions, External Output Action alarm time will be always constant till the alarm is released.

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

8.4.2.7 Object Left/Removed

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



Settings steps are shown as follows:

[Detection Settings]

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

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

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

[General Settings]

Detection Settings	\$	>
General Settings		~
Min. Time	20 (5~1800)s	
Sensitivity	5O	
Object Size Lim	iits	
 Min. Size 	3 * 3 Pixels (1*1~320*240)	
O Max. Size	320 * 240 Pixels (1*1~320*240)	
Note: Ceneral S	ettings will take effect in all detection regions/lines!	
Note: General S		
Schedule Settings	\$	>

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

Table 51. Description of the buttons

Parameters	Function Introduction
Min. Time	After setting Min. time from 5s to 1800s, any objects are left in the selected area or removed from the selected area over the minimum time will trigger the alarm.
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results. Note: The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.
Min. Size	Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.
Max. Size	Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320*240.

٦

[Schedule Settings]

Step5: Set detection schedule;

Note: This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 93*).

[Alarm Action]

Step6: Set alarm action;

= Note:

- This part is the same as the regular alarm settings. You can refer to Table 3 (page 97).
- If you enable External Output and choose Constant External Output Action Time, when an object is left/removed from the selected regions, External Output Action alarm time will be always constant till the alarm is released.

8.4.3 People Counting

8.4.3.1 People Counting

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

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



Settings steps are as shown below:

Step1: Enable People Counting;

Step2: Set detection line and direction.

Note:

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

[General Settings]

Step3: Set sensitivity and object size limits.

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

 Table 52. Description of the buttons

Parameters	Function Introduction
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results.
Min. Size	Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.
Max. Size	Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320*240.

[Schedule Settings]

Step4: Set detection schedule;

Note: This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 93*).

[Counting Information]

Step5: Set counting information;

Counting Informatio	n			~
Count Type	- All			
	🛃 In	🗸 Out	Sum	Capacity
Total Counting	(i)			
Show OSD				
Font Size	Small		~	
Font Color				
Text Position	Top-Left		~	
Single Counting				
Show Information				
Manual Reset	Reset			
	Reset the st	atistics report to	gether?	
Auto Reset				
Day	Everyday		~	
Time	L 00:00:00			
Alarm Action				>
Save				

Table 53. Description of the buttons

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

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

[Alarm Action]

Step6: Set alarm trigger and alarm action;

ection		
General Setting	IS	
Schedule Settin	igs	
Counting Inform	nation	
Alarm Action		
Alarm Trigger	r	
Total Countin	ng Single Counting	
Thresholds	In 9999 Out 999	99
Thresholds	In 9999 Out 999 Capacity 9999 Sum 999	99
Thresholds	In 9999 Out 999 Capacity 9999 Sum 999	99
Thresholds	In 9999 Out 999 Capacity 9999 Sum 999	99
Thresholds Alarm Action Reco	In 9999 Out 999 Capacity 9999 Sum 999	99
Thresholds Alarm Action Reco	In 9999 Out 999 Capacity 9999 Sum 999 ord	99 99 > > >
Thresholds Alarm Action Reco	In 9999 Out 99 Capacity 9999 Sum 99 ord gshot gshot gshot	99 99 > > > >
Thresholds Alarm Action Reco Snap Exte Play	In 9999 Out 99 Capacity 9999 Sum 99 ord	99 99 > > > >
Thresholds Alarm Action Reco Snap Exte Play Alar	In 9999 Out 99 Capacity 9999 Sum 99 ord 99 Sum 99 pshot 99 Audio (Please enable the Audio Speaker.) 99 m to SIP Phone (Please open the SIP.) 99	99 99 99 > > >

Table 54. Description of the buttons

Parameters	Function Introduction
Alarm Trigger	Alarm will be triggered when the thresholds reaches to a certain value from 1 to 9999. Total Counting and Single Counting are available. You can set the Alarm Thresholds of In/Out/Capacity/Sum.
	 For Total Counting, the thresholds are the sum of the total number of 4 detection lines. For Single Counting, the threshold is for the selected detection line.

Parameters	Function Introduction	
	This part is the same as the regular alarm settings. You can refer to <u>Table 3 (page 97)</u> .	
Alarm Action	 Note: The alarm action is effective on 4 detection lines simultaneously. If you enable External Output and choose Constant External Output Action Time, when the thresholds reach to a certain value you set, External Output Action alarm time will be always constant till the alarm is released. 	

8.4.3.2 Regional People Counting

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



- Support up to 4 detection regions for regional people counting.
- Users can check the real-time number of people and the time of each person's stay in the detection region on Live View interface.



Settings steps are as shown below:

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

Note: Support up to 4 detection regions.

[Basic Settings]

Step2: Set sensitivity and object size limits.

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

 Table 55. Description of the buttons

Parameters	Function Introduction		
Sensitivity	Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier it is for moving objects to be recorded in the results.		
Min. Size	Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.		
Max. Size	Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320*240.		

[Schedule Settings]

Step4: Set detection schedule;

Note: This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 93*).

[Alarm Action]

Alarm Trigger			
Thresholds	✓ Max.Stay	60	
	✓ Min.Stay	1	
	🗸 Max Length of Stav	30	s
	_		
Alarm Action			
Alarm Action	rd		>
Alarm Action Reco	rd shot		>
Alarm Action Reco Snap	rd shot mal Output		> > >
Alarm Action Reco Snap Exter	rd shot mal Output Audio (Please enable the Audio	o Speaker.)	> > >
Alarm Action Reco Snap Exter Play Alarm	rd shot mal Output Audio (Please enable the Audio n to SIP Phone (Please open	o Speaker.) the SIP.)	> > >

Step6: Set alarm trigger and alarm action;

Table 56. Description of the buttons

Parameters	Function Introduction		
Alarm Trigger	Alarm will be triggered when the Max./Min. Stay/Max. Length of Stay thresholds reaches to the value. Note: The value must be in the range of 1 to 60.		
Alarm Action	 This part is the same as the regular alarm settings. You can refer to <u>Table 3 (page 97)</u>. Note: The alarm action is effective on 4 detection regions simultaneously. If you enable External Output and choose Constant External Output Action Time, when the thresholds reach to a certain value you set, External Output Action alarm time will be always constant till the alarm is released. 		

8.4.3.3 Statistics Report

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

Mile	esight Network Ca	mera		⊕ English ∽	💄 admin 🛩
	🖧 Media	>	People Counting Regional People Counting Statistics Report		
•	Network Network	>	Main Tupe People Counting V Report Type Weekly Report V Statistics Type In V Start Time C 2022-03-28 00 00 00	Search	
\odot	E Storage		ninor (yes - experience of the second of th	ocurci	
e B	Event Basic Event	~	Total Line1 Line2 Line3 Line4		
	VCA Event People Counting Face Detection Heat Map		2022/05/28 00:00:00 2022/04/03 23:59:59 People Counting	<u>소</u> ᆐ 노 - O- In	
	e loT	>	0.8		
	System	>	0.6		
			0.4		
			0.2		
			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
			Espo	t Auto Export	

Step 1: Select Main Type;

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

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

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

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

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

People Counting-Statistics Report (Line Chart)



People Counting-Statistics Report (Bar Chart)



Regional People Counting-Statistics Report (Line Chart)

Mile	esight ·Network Can	nera		🕀 English 🗸	💄 admin 🗸
	🚔 Media	>	People Counting Regional People Counting Statistics Report		
۹	Network	>	Main Type Regional People Cound v Report Type Daily Report v Length of Stay All v Start Time () 2022-04-08 00:00:00	Search	
\odot	E Storage		Region Z All Z Region1 Region2 Z Region4		
	5 Event	~	Statistics Result		
¢"	Basic Event VCA Event		2022/04/08 00:00:00 ~ 2022/04/08 23:59:59 Regional People Counting	<u>^ 례</u> 보	
	Heat Map		35	-O- Sum	
	图 System	>	30	-O- Region2	
			25	-O- Region4	
			ີ ð ī 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	23	
				Auto Expo	đ

Regional People Counting-Statistics Report (Bar Chart)



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



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

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

People Counting-Export

Regional People Counting-Export

Export						
	File Format CSV					
	Export	Cancel				

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

People Counting-Auto Export

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

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



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

Time		• 03:0	3:03		
	-	00	00	00	
Export Tir	ne Range	01	01	01	~
Export to		02	02	02	age
	_	03	03	03	
	Sa	04	04	04]
		05	05	05	
9 5	• • 6 7		Cancel	OK	• • 11 12

• Set Export Time Range;

Export Time Range		Last 1 day	^
Export to		Last 1 day	
_	0.5	Export All	
	Sat		 J

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

Export to	FTP	Email 🔽 Storage
	Save	Cancel

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

Regional People Counting-Auto Export

	Auto Export	×
People Counting	Regional People Counting	
Enable		
Day	Everyday	
Length of Stay	All	
Time	© 00:00:00	
Export Time Range	Last 1 day	
Export to	FTP Email Storage	
Sa	Cancel	

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

Day	Monday ^
Length of Stay	Everyday
Time	Sunday
5	Monday
Export Time Range	Tuesday
Export to	Wednesday
_	Thursday
Sa	Friday

• Set Length of Stay.

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

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

Time	O3:03	3:03		
	00	00	00	
Export Time Range	01	01	01	~
Export to	02	02	02	age
	03	03	03	
Sa	04	04	04	
	05	05	05	
• • •		Cancel	ок	• • 11 12

• Set Export Time Range;

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

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



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

8.4.4 Heat Map

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

8.4.4.1 Heat Map

Note:

- Only allowed to view reports within 7 days without a SD card or NAS.
- For more details about how to set Heat Map, please refer to <u>https://milesight.freshdesk.com/a/solutions/articles/69000643314</u>.

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Step1: Enable Heat Map function.

[Basic Settings]

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

Table 57. Description of the buttons

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

Step2: Set Heat Map Region. Draw the screen to set the detection area. You can click "**Select All**" button to select all areas, or "**Clear All**" button to remove the current drawn area.

Mill	esight Network Camera		🕀 English 🗸	💄 admin ~
•	Image: Control of the control of t	Heat Map Report Enable Heat Map		
Ø	☞ Fisheye Image: Fisheye Image: Event VCA Event People Counting Heat Map	Send Al Clear Al Schedule Settings		

[Schedule Settings]

Step3: Schedule Settings.

Note: This part is the same as the regular schedule settings. You can refer to <u>8.4.2.1 Region</u> Entrance (*page 93*).

8.4.4.2 Report

The heat map results will be displayed on this interface.

Mill	esight ·Network Cam	era	ra đ	🕽 English 🗸	💄 admin 🛩
	🖧 Media	>	Heat Map Report		
۲	Network	>	Main Type Space Heat Map V Report Type Daily Report V Start Time	Search	
\odot	🗄 Storage		Share Heat Man		
	5 Event	~	Cycle risk imp		
ø	Basic Event VCA Event People Counting Face Detection Heat Map				
	e loT	>)		
	System	>)		
			Epot	Auto Export	

Step1: Select Main Heat Map Type.

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

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

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

Step3: Select Start Time, then click the **"Search"** button, the camera will automatically count the data for the day/ week/ month/ year (based on the report type selected by the user) from the start time and generate the corresponding report as shown below.

Space Heat Map



Time Heat Map

Mill	esight ·Network Camer	а			🕀 English 🗸	💄 admin 🛩
	ස් Media ා	Heat Ma	p Report			
	Network		Main Type	Time Heat Man v Report Type Daily Report v Start Time 🔿 2022/01/37/00/00/00	Search	
6	🗄 Storage			Time Rank Mon	Cource	
	Tisheye			тине гиев мар		
ø	🗟 Event 💊					
	Basic Event VCA Event People Counting			30 min.	玉	
	Heat Map			23 min. 20 min.		
				15 min.		
				10 min.		
				0 min. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	23	
				Exp	rt Auto Expo	t

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

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

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

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

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

	Auto	Export		×
Enable	🗸 Space	e Heat Map	🗌 Ti	me Heat Map
Day	Everyd	ay		~
Time	• 02:00	D:00		
Export Time Range	00			×
Export to	01			ge
	02	00	00	
Sa	03	01	01	
	04	02	02	
		Cancel	ок	

• Set Export Time Range.

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

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

	Auto Export		×
Enable	Space Heat Map 🗌 Time H	eat Map	
Day	Tuesday	~	
Time	O2:00:00		
Export Time Range	Last 1 day	~	
Export to	🗌 FTP 📃 Email 🗹 Storage		
s	ave Cancel		

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

8.5 Fisheye

[PTZ]

Mil	Milesight -Network Camera					
	ස් Media 🔹 👌	> PTZ General				
	Network) PTZ OSD				
\odot	🗄 Storage	Zoom Status 5s v				
	🐨 Fisheye	Preset Status 5s v				
ø	Event >	Patrol Status Always Open				
	System >	Auto Scan Status Always Open				
		Save				

Table 58. Description of the buttons

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

[General]

Note: For more details about how to use two compatible modes of fisheye camera, please refer to <u>https://milesight.freshdesk.com/a/solutions/articles/69000643424</u>.

Mill	esight Network Camera	1	🕀 English 🗸	💄 admin 🗸
	🖆 Media 🔹	PTZ General		
≞	Network	Dewarping Configuration		
$\mathbf{\Theta}$	E Storage	Field of View Normal		
Ŭ	🐨 Fisheye	Transfer Mode Bundle-Stream Mode V		
ø	5 Event >	Save		
	System >			
		1		

Table 59. Description of the buttons

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

Note: We recommend Bundle-Stream mode with Mileisght N

8.6 System

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

8.6.1 System Setting

Here you can check System information and Date&Time.

8.6.1.1 System info

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

Mil	Milesight Network Camera						💄 admin 🛩
	ස් Media	>	System Info Dar	te&Time			
≞	Network	>	Device Name	Network Camera			
\odot	🗄 Storage		Product Model	MS-C9674-PA			
\$	🗑 Fisheye		Hardware Version	V2.0			
ø	5 Event	>	Software Version	32.8.0.1-a3			
	System	~	MAC Address	1C:C3:16:11:58:AD			
	System Setting Security		S/N	CM44V202150000029			
	Logs		Device Information	A4100EQ370N2001			
	Maintenance		Alarm Input	1			
			Alarm Output	1			
			Uptime	4 minutes			
			Save				

Table 60. Description of the buttons

Parameters	Function Introduction		
Device Name	The device name can be customized. It will be seen in file names of video files.		
Product Model	Iodel The product model of the camera.		
Hardware Version	sion The hardware version of the camera.		
Software Version	The software version of the camera can be upgraded.		
MAC Address	MAC Address Media Access Control address.		

Parameters	Function Introduction		
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.		

8.6.1.2 Date&Time

Mill	Milesight •Network Camera ⊕ English ~ 💄 admin ~			
	😤 Media 🔹 👌	System Info Date&Time		
4	Metwork Network Network	Current System Time		
\odot	E Storage	Date 27/03/2022		
	S Event >	Time 15.33.04		
ø	e lot >	Set the System Time		
	🕲 System 🗸 🗸	Time Zone (UTC+08:00) China(Beijing, Ho \vee		
	System Setting	Daylight Saving Time Disabled V		
	Logs	Synchronize Mode ONTP server O Manual O Synchronize with computer time		
	Maintenance	Time 🕓 2022-03-27 15:33:03		
		Save		

Table 61. Description of the buttons

	Parameters	Function Introduction		
	Current System Time	Current date&time of the system.		
Ī	Set the System Time	Time Zone: Choose a time zone for your location.		

Parameters	Function Introduction		
	Daylight Saving time: Enable the daylight saving time.		
	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.		

8.6.2 Security

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

Mil	esight ∙Network Carr	nera			
	🖧 Media	>	User Online User Access List	Security Service	Watermark About
	Wetwork	>	Manage Privilege		
\odot	E Storage		Allow Anonymous Viewing		
	la Event	>	Security Question		
ø	📾 loT	>	Security Question Edit		
	System System Setting Security	~	Account Management ①	Privilege	Operation
	Logs		1 admin	Administrator	2 1
			Sine		

 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.				
	Click "Edit" button to set three security questions for your camera. In case that you forget the password, you can click "Forget Password" button on login page to reset the password by answering three security questions correctly.				
	Security Qu	estion Settings ×			
	Admin Password*				
	Security Question1 What	s your father's name?			
	Answer1*				
	Security Question2 What	s your father's name?			
	Answer2*				
	Security Question3 What	s your father's name?			
	Answer3*				
Security Question					
	Save	Cancel			
	There are twelve default questions be	low, you can also customize the security			
	questions.				
	What's your father's name?				
	What's your father's name?				
	What's your favorite sport?	What's your favorite food?			
	What's your mother's name?	What's your lucky number?			
	What's your mobile number?	What's your favorite color?			
	What's your first pet's name?	What's your best friend's name?			
	What's your favorite book?	Where did you go on your first trip?			
	What's your favorite game?	Customized Question			
	*				
Parameters	Function Introduction				
--------------------	--				
	Click " 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. The added account will be displayed in the account list.				
	Admin Password: You can add an account only after you enter the correct admin password.				
	User Level: Set the privilege for the account.				
	User Name: Input user name for creating an account.				
Account Management	New Password: Input password for the account.				
	Confirm: Confirm the password.				
	You can edit and delete the account in the account list under the admin account. For the default admin account, you can only change the password, and it cannot be deleted.				
	🗾 Note:				
	 Support up to 20 users, including a default user and 19 custom added users. The operator privilege is all checked by default. 				

8.6.2.2 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 logging on 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.

8.6.2.3 Access List

Mil	esight Network Camera		⊕ English ∽	⊕ English ~ 💄 ac	⊕ English ~ 💄 admin
	ස් Media >	User Online User Access List Security Service Watermark About			
	Network	General Settings			
\odot	🖴 Storage	Max. Number of Connection 10 ~			
\$	5 Event >	Access List			
ø	e Tol 🖷	Enable Access List Filtering			
	🖉 System 🗸	Filter Type O Allow O Deny			
	System Setting Security	ID Rule Address Operation			
	Logs	No Data			
		Add Delete AB			

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.

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

8.6.2.4 Security Service

Mil	esight ·Network Ca	mera		🕀 English 🗸	💄 admin 🗸
	🗂 Media	>	User Online User Access List Security Service Watermark About		
	Network	>	SSH Settings		
$\mathbf{\Theta}$	E Storage		Enable 🗹		
	la Event	>	SSH Port 6022		
ø	loT ₪	>	Save		
	🗷 System	~			
	System Setting				
	Logs				
	Maintenance				

Table 65. Description of the buttons

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

8.6.2.5 Watermark

Mill	esight ·Network Cam	era		🕀 English 🗸	💄 admin 🛩
	🖧 Media	>	User Online User Access List Security Service Watermark About		
۲	Network	>	Watermark Settings		
0	E Storage		Enable		
Ŭ	5 Event	>	Watermark String IP CAMERA		
ø	e loT	>	Save		
	System	~			
	System Setting				
	Logs				
	Maintenance				

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

8.6.2.6 About



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

8.6.3 Logs

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

Mile	esight ·Network Ca	mera							🌐 English 🖌 💄 admin 🗸
	🖧 Media	>	Logs						
•	Network Network	>	Main Type All Types	Sub Type All Types	Start Time (2022	-03-27 00:00:00 End Time	(b) 2022-03-27 23:59:59		Search
0	E Storage								
	ন Event	>	Time	Main Type	Sub Type	Param	User	IP	Detail
æ			2022-03-27 10.27.22	Operation	RTSP Session Start	-		192.166.69.234	DTED
	፼ loT	>	2022-03-27 16:27:22	Operation	Video Param Set Remotely			192.168.69.234	Main/bit rate channe)
	🗷 System	~	2022-03-27 16:27:22	Operation	RTSP Session Start		admin	192 168 69 22	HTTP
	System Setting		2022-03-27 16:27:22	Operation	Config Remotely	Date&Time	admin	192.168.69.234	
	Security		2022-03-27 15:29:09	Operation	RTSP Session Stop		admin	192.168.69.22	HTTP
	Logs		2022-03-27 15:28:34	Operation	RTSP Session Start	-	admin	192.168.69.22	HTTP
	Maintenance		2022-03-27 15:28:34	Operation	Login Remotely		admin	192.168.69.22	
			2022-03-27 15:28:00	Operation	RTSP Session Stop		admin	192.168.69.22	HTTP
			2022-03-27 15:27:37	Operation	Login Remotely		admin	192.168.69.48	
			2022-03-27 15:27:34	Operation	RTSP Session Start	-		192.168.69.48	RTSP
			2022-03-27 15:27:33	Operation	RTSP Session Start	-		192.168.69.48	RTSP
			2022-03-27 15:27:23	Operation	Config Remotely	Date&Time	admin	192.168.69.234	
			2022-03-27 15:25:40	Operation	Reset Remotely	-	admin	192.168.69.22	
			2022-03-27 15:25:39	Operation	RTSP Session Stop	-		192.168.69.48	RTSP
			2022-03-27 15:25:39	Operation	RTSP Session Start			192.168.69.48	RTSP
			2022-03-27 15:25:38	Operation	RTSP Session Start			192.168.69.48	RTSP
			2022-03-27 15:25:31	Operation	RTSP Session Start	-		192.168.69.48	RTSP
						Το	otal 1122 30/page ~ <	1 2 3 4 5 6	38 > Go to 1
									Export

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.

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

8.6.4 Maintenance

Here you can configure System Maintenance and Auto Reboot.

8.6.4.1 System Maintenance



Table 67. Description of the buttons

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

8.6.4.2 Auto Reboot

Mil	esight ·Network Cam	era		🕀 English 🗸	💄 admin 🗸
	🖧 Media	>	System Maintenance Auto Reboot		
	Network	>	Auto Reboot Settings		
\odot	E Storage		Enable		
	5 Event	>	Day Everyday 🗸		
ø	፼ loT	>	Time (© 00.00.00		
	System	~	Save		
	System Setting				
	Logs				
	Maintenance				
		_			

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

Chapter 9. Services

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

Technical Support Mailbox: support@milesight.com

Web: http://www.milesight.com

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

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