

Central Management System

User Manual

V2.08

Milesight Technology Co.,Ltd.

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1. Introduction

1.1 Introduction

The Milesight Central Management System(hereinafter referred to as CMS) software works to give you access and control of your Milesight High Definition Surveillance System. The Milesight CMS provides multiple operating functionalities, including Live View, PTZ control, Fisheye control, video playback, motion detection, alarm receiving, logs and so on.

This user manual describes the function, configuration and operation steps of CMS. To ensure the proper usage and stability of the CMS, please refer to the contents below and read the manual carefully before operation.

The latest version of the software will be available on our official website. Please check our official website www.milesight.com for upgrading.

1.2 Key Features

- ♦ A central management system for Milesight cameras and Milesight NVR
- ♦ User-friendly UI design
- Support adding 256 devices (Include camera and NVR)
- ♦ Support alarm pop-up window
- ♦ Support multiple monitors
- Support 1/4/8/9/16/36/64 channels playing synchronously
- ♦ Support the custom live view layout
- ♦ Support alarm screen for displaying the alarm channel
- ♦ Support full screen for single or multiple channels
- ♦ Support H.265/H.264 video compression
- ♦ Support dual-stream
- ♦ Support Transcoding for remote playback.
- ♦ Support P2P remote access and configuration.
- ♦ Support Milesight DDNS.
- ♦ Support PTZ control and digital zoom
- ♦ Support SD card and HDD recording files playback
- Support motion detection, alarm recording and image capture functions
- ♦ Support VCA(Video Content Analysis)
- Support the NVR ANPR (Automatic Number Plate Recognition) function.
- ♦ Active cameras and NVRs when using them for the first time

1.3 System Requirements

OS: Windows 7/8/10/Vista/Server 2003/Server 2008/Server 2012 CPU: 2.6GHZ or faster Memory: 2G MB or more Graphic memory: 1G or more Internet protocol: TCP/IP

2. Installation

2.1 Installation Guide

Run the installation file and install the programs on your computer by following the on-screen instructions. After finishing installation, you will find the programs on the start menu or on the desktop.



Step1: Check the box 'I accept the terms in the <License Agreement>';

Figure 2-1-1 Accept the terms

Step2: Choose 'Custom installation' to select the destination folder where Milesight Smart Tools will be installed, or choose 'Default installation' to install it in the default destination folder;

Milesight Better Inside, More in Sight
Quick installation
Create shortcut Auto start when startup
I accept the terms in the (Ucense Agreement) © Default installation.

Figure 2-1-2 Installation

Step3: Click 'Quick installation' button to complete the installation.



Figure 2-1-3 Finished installation

Note:

The language of Milesight CMS is based on the language of computer system.

2.2 Login/Logout

2.2.1 Login

Double click the icon is to start the software, then choose the user and enter the password, the default account Username is: admin; Password is: password. You can check the checkbox to remember the password, then you can auto login by choosing Auto Login.

Milesight CMS	
admin 🔹	
password	
Save Password Auto Login	
Login	
Copyright © Milesight All rights reserved.	

Figure 2-2-1 Log In

After login into the system, you can see the Live View page as below:

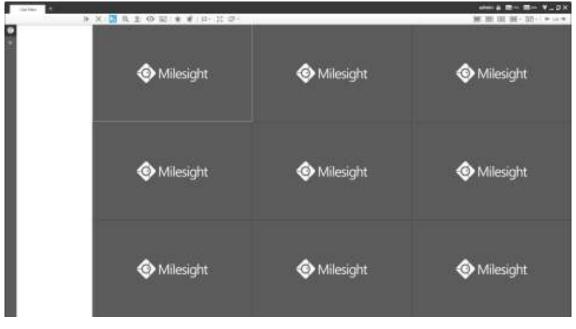


Figure 2-2-2 Live View

And the meanings of the icons on the top-right are as below:

Item	Function Introduction
admin	User name
£	Click the button to lock the software, and it needs to enter the password to unlock
₹	Menu button
	Minimize the interface
٥	Restore Down the interface
	Maximize the interface
×	Close the software
← 1/64 →	Switch to the previous group cameras / next group cameras when click the left arrow / right arrow button.
GPU :13%	To check the real-time CPU status on PC
RAM :40%	To check the real-time RAM memory on PC

Table 2-2-1 Live View

Click the Menu button $\ensuremath{\overline{\Box}}$, the interface is as below:

Item		Function Introduction
© Configuration	General	 Auto Login: Enable this option to automatically login CMS when running it. Run CMS when Windows startup: Enable this option to automatically run CMS when Windows startup. Run CMS as Administrator: Enable this option to run CMS as administrator. Quick Exit: Enable this option, you can close the CMS in one click without confirming the password. Language: There are 14 different languages available. Log Retention Period: Six different periods are available(1, 2, 3, 4, 5 and 6 Months), and you can also set the log retention period to permanent. Video Save Path: Click C to select a path for manual recording in Live View and Playback interface or video clips in Playback interface. Note: Please don't save Recording files under the installation path since the recorded files would be deleted when CMS was uninstalled if they were saved under installation path.

		Snapshot Save Path: Click 🗂 to select a path for snapshot in Live View and Playback interface.
		Note: Please don't save Snapshot files under the installation path since the
		recorded files would be deleted when CMS was uninstalled if they were
		saved under installation path.
		Play Mode: Select different modes to meet your needs.
		Least Delay: The most instantaneous mode;
		Best Fluency: The most fluent mode.
		Automatically delete video files: Input a value greater than 500MB, it will
		stop recording when the Free Space of storage path is less than this
		preset value.
-		Video Card Info: You can check the video card information of this server
		where CMS is installed, including Vendor, Renderer and Version.
		Rendering Method: There are three options available, including Direct3D,
		OpenGL and RGB. If the video can't be previewed successfully, please
		adjust this option to try again.
	Display	High resolution display adaptation: Enable this option to adapt to high
		resolution monitor.
		Live Stream Information: Enable this option to display the Live Stream
		Information in the live view page, including Video Codec, Resolution,
		Frame Rate and Bitrate.
		Channel Name: Enable this function to display the channel name in each
		channel. There are four text positions available, including Top-Left,
		Top-Right, Bottom-Left and Bottom-Right.
-		Enable Alarm Popup: when the Motion Detection, VCA alarm and Alarm
		Input are triggered, the channel window will pop up.
		Note: You can disable it by pressing Hot Key Ctrl + F12.
		Play Audio: Enable this option to Play Audio when Alarm Popup is
		triggered. You can choose to play Alarm Audio or Live Audio.
	Alarm	Alarm Audio: There are two default alarm audios available. And you can also
		upload your customized audio.:
		① Only support 'wav/MP3' audio files and no more than 1M.
		② Currently it supports uploading 5 customized audio files.
		Live Audio: If the camera supports audio, you can directly play the live audio
		caught.
		Dual Stream Connection Mode: Enable this option to optimize the speed
	Advance	of switching stream but will increase the pressure to the network.
About	Informatio	on of the CMS, Milesight webpage link and Check for Update.
₽ Logout	Log out of	the current account.
🕲 Exit	Close the	software.

2.2.2 Logout

admin	-	
•••••		
- Saver Parament Auto Lo	igin 💧	-
Logout		~

Figure 2-2-3 Log Out

Notes

• Password is necessary for logging out.

3. Manage

3.1 Device Management

The Milesight CMS supports to add Milesight cameras and NVRs to get an efficient and convenient management. The devices also can be removed or logged out from the CMS at any time.

3.1.1 Adding Devices

There are two measures available for adding devices. First of all, click the Add button [+] \rightarrow [Devices].

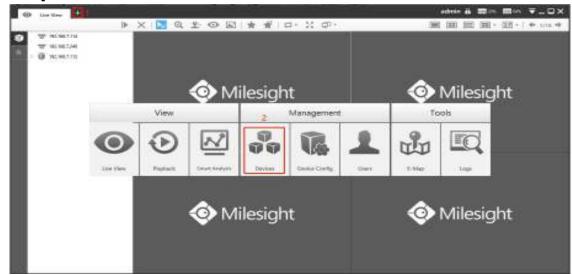


Figure 3-1-1 Adding Device

♦ Adding a Single Device

Milesight CMS provides to add device one by one. Please refer to the steps as below: + Add Manually button;

Step1: Click the

Step2: Select the device type, "NVR" or "Camera";

Step3: Enter device information.

Add Device Man	ually	×	Add Device Man	ually	×
Device Type:	NVR	•	Device Typer	Camera	•
Name:	MS-N1009UPT	0	Name:	MS-C5361-EP8	٥
Connection Type:	IP/Domain	•	Connection Type:	IP/Domain	1.0
IP Address:	192.168.7.112	0	IP Address:	192,168.7.112	٥
Port:	80	0	Port	80	0
			User Name:	admin	۵
User Name:	admin	0	Password		0
Password:	•••••	0	Transport Protocol	UDP	
Transport Protocol:	UDP	•	Stream Model	Secondary Stream	7.9
	ОК	Add		OK	Add
			Same and the second		

Figure 3-1-2 Adding Device Manually

The meanings of the items on the page can be referred to the table 3-1-1.

Item	Function Introduction
Device Type	Camera and NVR are available
Name	Name of the device
Connection Type	There are three options, IP/Domain, P2P and Milesight DDNS.
IP Address	If you choose IP/Domain as connection type, enter the IP address of the device here.
Mac Address	 If you choose P2P as connection type, enter the MAC address of the NVR here. Note: 1. P2P requires higher bandwidth for stability. 2. P2P connection is only for NVR, please make sure P2P is enabled on the NVR.
Domain Name	If you choose Milesight DDNS as connection type, enter the Domain Name of the device here.
Port	The port of the device, the default port is 80
User Name	The user name of the device, the default user name is "admin"

Table 3-1-1 Adding Device Manually

Password	Enter the password for the account of the device, for camera version lower than V4x.7.0.69 and NVR version lower than V7x.9.0.3, the default passwords are: 1. Network Camera: ms1234 2. NVR: ms1234
Transport Protocol	TCP and UDP are available
Stream Mode	There are two options, "Primary Stream" and "Secondary Stream"

Search

Milesight CMS can search devices which are in the same network automatically, and it can add devices which have the same user name and password in bulk. Please refer to the steps as below:

Step1: Click Search button to search the Milesight devices in the same network;

Step2: Select the devices;

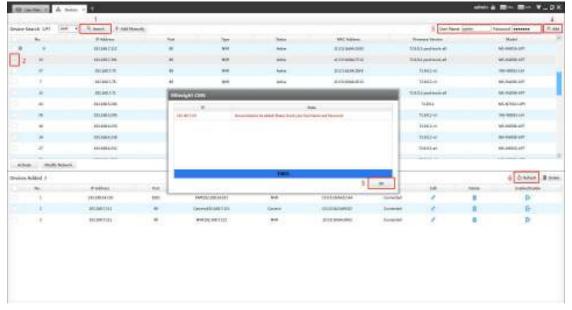
Step3: Enter the user name and password of the selected devices ;

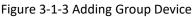
Step4: Click + Add button, the device will be displayed directly in "Devices Added" interface if it is added successfully;

Step5: A window will pop up to inform you if the device is added failed, you need to click the

[OK] button to add the device again;

Step6: Click [Refresh] button to refresh the status of the added devices.







Note

Clicking Refresh button to refresh the status of the added devices;
Clicking Dutton can select all devices which were found;
The devices can be sorted by their IP Address, Port, Type, MAC Address, Model when you click the corresponding button;
Up to 256 devices can be added(Include camera and NVR).
Only devices that show "Active" status in the search list can be added. If the devices show "Inactive" status, it needs to be activated before it can be added. You can refer to 3.1.2 for how to activate the device.

3.1.2 Activate the Device

	If your device shows 'Inactive' in the status bar, you need to click	Activate	to set the
•	if you device shows mactive in the status bal, you need to thek		to set the
	password when using it for first time.		
	Input the password and click 'OK'.		

User Name:	admin	
Password:	6]
Confirm:	[1



Note: Password must be 8 to 32 characters long, contain at least one number and one letter. It will display 'Device has been activated successfully' when activation is successful.

199 199	MAC	State
92.168.7.112	1C/C316/04/30/92	Device has been activated successfully.

Figure 3-1-5 Device Activation

If your device shows 'Active' in the status bar, you can use it directly without activating it. If

you click , it will display 'The selected device has been activated, cannot activate twice'.



Figure 3-1-6 Device Activation

3.1.3 Removing or Disabling the Device

Milesight CMS can remove single/bulk added devices. First of all, enter [Device Manage] and follow the steps:

• Removing a Single Device

The steps to remove a Single device are as below:

Step1: Click the *selected device;* button followed by the selected device;

Step2: Click [OK] to remove the device or [Cancel] button to cancel the action when the window

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		(ettaint)		wepteritt	**	and the second	(service)	1		P	

Figure 3-1-7 Removing a single Device

• Removing Group Devices

The steps to remove the devices for a group are as below:

Step1: Click
w
to select all the added devices or check the checkbox to select

several devices;

Step2: Click the Delete to remove the selected devices;

Step3: Click the [OK] to remove the devices or [Cancel] button to cancel the action when the window pops up.

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-		construction of the second									

Figure 3-1-8 Removing Group Device

3.1.4 Disabling the Added Device

You can disable the added device rather than remove it in case that the device will be needed again. Disable means that the device is disabled for the present.

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Figure 3-1-9 Disable the Added Device on Device Management Page

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	🔷 Milesight	🔷 Milesight	📀 Milesight
	🚸 Milesight	📀 Milesight	📀 Milesight

Or right-click the selected device and choose [Disable] in the device list.

Figure 3-1-10 Disable the Added Device on Live View Page

Note You can click the button on Device Management page or right-click the device on Live View page and choose [Enable] to Enable again.

3.1.5 Editing Device

• If the device hasn't been added yet in "Device Search" interface, you can edit the device that

has been activated by clicking Modify Network , you can edit IP Address, Port, Netmask, Gateway and DNS by inputting the correct User Name and Password.

Device Type:	NVR	
MAC Address:	1C:C3:16:0A:30:92	0
IP Address:	192.168.7.112	8
Port:	80	۵
Netmask:	255.255.240.0	8
Gateway:	192.168.7.1	۵
DNS:	192.168.7.1	8
User Name:	admin	
Password:	•••••	

Figure 3-1-11 Editing Device

• If the device has been added to "Devices Added" interface, you can edit the device by clicking

the Edit button <a> . All parameters can be edited except the Device Type and IP address. See as below:

Device Modify	i.	×	Device Modify		>
Device Type:	Carotro	-	Device Type:	NVR	*
Name	Camera192.168.199.60		Device Name:	NVR192.168.8.163	
IP Address:	192.168.199.60	51	IP Address:	192.168.8.163	
Point:	80		Port:	80	
User Name:	admin	- 83			
Password:			User Name	admin	
Transport Protocoli	UDP	-	Password	•••••	
Stream Modei	Secondary Stream		Transport Protocol:	UDP	•

Figure 3-1-12 Editing Device

Note: Password must be 8 to 32 characters long.

The meanings of parameters can be referred to the table 3-1-1.

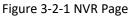
3.2 Device Config

In the Device Config, there are Channels, Event, Record and System parts for NVR, and Video, Event, Record and System for Camera configurations.

3.2.1 NVR

The NVR Configuration page is as below:

D faith of the local	a marine	1					and a Br Br Y
See (U)(E)(U)	Channiels	60					
	Gent	<u>è</u>	<u>.</u> 	A			
	Droege				·		
	System	\$	-	9	1	*	



Note:

- 1. The NVR added through IP/Domain and P2P support the following configurations.
- 2. Only NVR of V7x.9.0.4 and above and CMS of V2.4.0.5 and above support the following configurations through P2P.

3.2.1.1 Channels

🖧 Channels

Channels management provides searching, adding, editing, deleting channels function. As for searching and deleting channels, please refer to the Chapter III Device Management 3.1 Adding Device.

▼ Q. Search + Add Marn	ually User Name admin	Pannesed	+ Add
		O Refresh	I Delete
e Status IP Address	Protocol Madel	Firmware Version	
Connected 192.168.7.114	MSSP MS-C2904-FPB	40.7.0.72-r2	
Connected 192.168.7.224	MSSP MS-C8262-RLP8	43.7.0.72-LPR2-r3	
	Connected 192.168.7.114	e Status IP Address Protocol Model Connected 192.108.7.114 MSSP MS-C2904-FPB	O Refresh E Status IP Address Protocol Model Firmware Version Connected 192.108.7.114 MSSP M5-C2904-FPB 40,7,0.72-r2

Figure 3-2-2 Channels Management

[Adding Channel]

You can add Milesight cameras searched by CMS automatically, and by adding manually, you can add third party cameras that have ONVIF and RTSP protocol.

dd Channel		>
Channel:	3	
Channel Name:	camera	
IP Address:	192.168.8.161	
Port:	80	
User Name:	admin	
Password:		
Protocol:	ONVIF	
Transport Protocol:	UDP	¥
Primary:	rtsp://	
Secondary:	rtsp://	
Time Setting:	Sync Time With NVR	
		Apply

Figure 3-2-3 Adding Channel

ONVIF: Camera which supports ONVIF protocol;

RTSP: Primary: rtsp://IP:Port/main

Secondary: rtsp://IP:Port/sub

(The default port for RTSP protocol is 554.)

MSSP is only for the Milesight products.

[Editing Channel]

You can edit the channel when adding it manually. Or you can edit it by click the button \checkmark .

Channel:	1
Channel Name:	CAM1
IP Address:	192.168.8.167
Port:	8855
User Name:	admin
Password:	*****
Protocol:	ONVIF
Transport Protocol:	UDP
Primary:	rtsp://192,168.8.167:8854/main
Secondary:	rtsp://192.168.8.167:8854/sub

Figure 3-2-4 Editting Channel

3.2.1.2 Event

Alarm Input

Click the Alarm Input button, the setting window will pop up as below, you can modify alarm input settings. Here are four options for Alarm Action [Channel Record] [Audible Warring] [Email Linkage] [PTZ Action] [Alarm Output] that you can select. After choose the alarm action you can choose the alarm channel. And then click [OK] or [Apply] after all set.

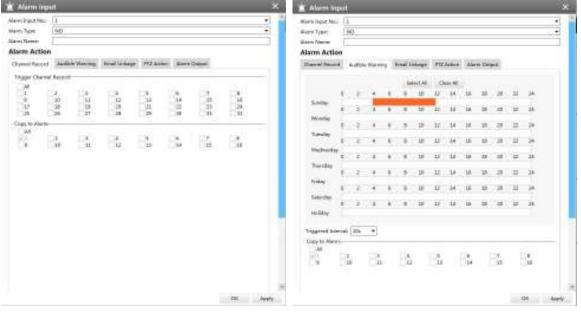


Figure 3-2-5 Channel Record

Figure 3-2-6 Audible Warning

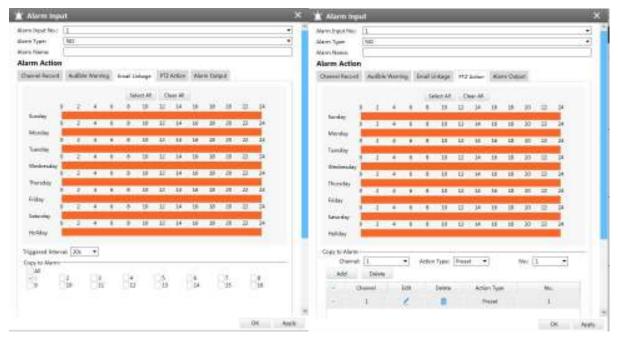
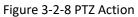


Figure 3-2-7 Email Linkage



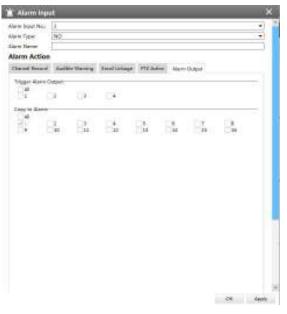


Figure 3-2-9 Alarm Output

៉ Alarm Output

Click the Alarm Output button, the setting window will pop up as below, you can modify alarm input settings:

Marke Tage: 100 1 Marke Tage: 100 1 Standard Tage: 100 100 Standard Tage: 100 100 100 Standard Tage: 100 100 <th colspa<="" th=""><th>Alamı</th><th>Ost</th><th>aut</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>- 13</th></th>	<th>Alamı</th> <th>Ost</th> <th>aut</th> <th></th> <th>- 13</th>	Alamı	Ost	aut												- 13
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Figure 3-2-10 Alarm Output

The "Alarm Input"/"Alarm Output" settings enable you to set up alarm input/output type, effective time, corresponding triggers, and you also can copy the settings to other channels. After setting up one channel or some channels, click the Apply button Apply.

AException

Click the Exception button, the setting window will pop up as below:

Exception Type:	Network Disconnected	•
anta ang ang ang ang ang ang ang ang ang an	Network Disconnected	
	Disk Full	
Trigger Action	Record Failed	
	Disk Error	
	Disk Uninitialized	
Audible Warning:	NO Disk	
E-mail Linkage:		

Figure 3-2-11 Exception

The meanings of the items on the Exception page can be referred to the table 3-2-1 below:

	Table 3-2-1 Schedule
Item	Function Introduction

Exception Type	There are "Network Disconnected"、 "HDD Full"、 "Record Failed"、 "HDD Failed"、 "HDD Unformat"、 "NO Disk"
	Enable or disable the Pop Up Alarm
Trigger Action	Enable or disable the Audible Warning
	Enable or disable the E-mail Linkage

After finishing the settings, you can click the Apply button Apply to apply your settings to the CMS software.

3.2.1.3 Storage

🛗 Record Schedule

Click the Schedule button, the setting window will pop up as below:

lecard Schedu	80	Sat	th are	tings											
Channel 1			•												
							Select	All	Ck	ar Al	E.				
Sunday	0	2	4	0	8	10	12	14	16	18	20	Z2	24		Winauta
Monday	0	2	4	ō	8	10	12	14	16	18	20	22	24	Event-	r#
Tuesday	0	2	4	0	8	10	12	14	16	18	20	Z2.	24	- 1	lution Detection
Wednesday	0	2	4	6	ş	10	12	14	16	18	20	22	24	-^	
Thursday	0	2	4	0	8	10	12	14	16	18	20	ZZ	24	1.1	Sert Free F
Friday	0	2	4	ō	8	10	12	14	16	18	20	22	24		
1000	0	2	4	(6	8	10	12	14	16	18	20	22	24		
Saturday	0	2	4	.6	8	10	12	14	16	18	20	72	24		
Holiday															
Copy to Came	rai			_			_								
9	B	2 10		3 11		B	4		5 13			4		7	- ^B 16

Figure 3-2-12 Record Schedule

You can set channel recording schedules in "Record Schedule", If you want the channels to record by schedule, you need to select one of the recording types and then set the time. "Copy to Camera" can copy the settings to other channels. After setting the schedule for one channel or some channels, click the Apply button Apply.

Also you can choose to batch set the channels to Record or Stop in "Batch Settings".

Channel	Record	Stop	
041		15	
CH2			
CH3			
CH4			
CHS			
CH6			
CH7			
СНВ			
CH9			
CH10			
CH11			
CH12			
CH13			
CH14			
CH15			
CH16			

Figure 3-2-13 Batch Settings

Record Settings

General Settings

Make general configuration for selected channels. Click configuration to copy the same configuration to other channels.

Channel: Select the channel which will be set.

Pre Record: Event pre-record duration time. It will start recording before the event is triggered. Note that NVR model ends with letter T doesn't support pre record.

Post Record: Event post-record duration time. It will keep recording after the event is over.

Audio Record: Select to record audio or not.

Record Stream Type: Select Main stream or sub stream for record.

Video/Picture Due Time: Set the due time of recording files/snapshot files, 1~120days or unlimit are available.

ANR: With this option enabled, when the connection between camera and NVR is lost, the camera would start continuous recording and store videos in SD card instead. Then after reconnection, NVR automatically retrieves missed continuous videos from camera SD card in a period of time to prevent data missing. And you can check the corresponding ANR recording directly in the playback interface.

Note : NVR needs to be upgraded to v7X.9.0.6 or above, and CMS needs to be upgraded to v2.4.0.6 or above to

support ANR function.

-13-100 08 44
Witsight
1 Dualte
Diable
Duble .
ar users
Primary Xessam
Unlivit
Prinary Stream
1

Figure 3-2-14 General Settings

Advanced Settings

Enable or disable Recycle Mode for all storage device.

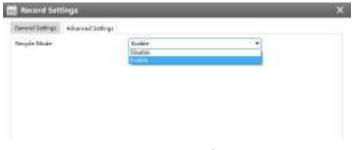


Figure 3-2-15 General Settings

Disk Management

Click the Disk Management to manage the disk, as the window shows, you can check the disk status and format the disk.

	Vendor	Status	Total(GB)	Free(GB)	Type	Property	Delete
1	MDC MD3000LUCT-63C20V0	Offine	0	0	LOCAL	R/W	8
otal Capacity(GB)	0						



3.2.1.4 System

There are six parts in the System pages: General, Network, Holiday, Users, Status, Maintenance.

Transaction Control of Cont	Channels	e e Sura					
	Event	- <u>e</u> Ann type	Auen Dagua	A braption			
	Stroage	Latered Schwalate	Repet Settings	Dea Maragemen			
	System	\$			-	-N/A-r	*

Figure 3-2-17 Disk Management

🦨 General

🛱 General		
Device Name:	NVR	- 5
Device ID	235	
Server Time:	2018-01-80-1540-37	
Time Zonei	8 China (Beijing)	÷
Daylight Saving Time:	Auto	
NTP		
Server Address:	poolntp.org	- 1
Manual Sync Time		
Set Time:	2018-01-30 15:40:05 # Dyes with computer time	

Click the General button 🦃 , a window will pop up as below:

Figure 3-2-18 General

Device name and ID can be made up by yourself, and Server Time depends on the time zone and daylight saving time you choose, which can be synchronized through NTP or manually. After complete the settings, click Apply to save and apply the settings to CMS.

🔚 Network

In the Network part, you can use several network functions.

[Basic]

Basic configuration includes IP Address, Subnet Mask, Default Gateway, DNS server, MAC Address, MTU.

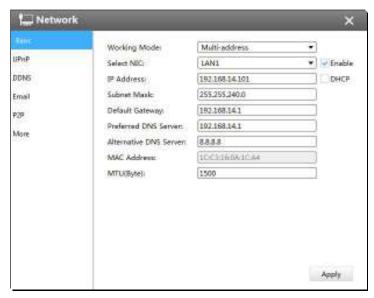


Figure 3-2-19 Basic

[UPnP]

With the function enabled, you don't need to configure the port mapping for each port in router. It will do the port mapping in router automatically once **router supports UPnP**.

🖵 Netwo	rk		×
Benc Idea DONS Email P2P More	rk Forwarding Type Forwarding Type Internal HTTP Port: External HTTP Port HTTP Status Internal RTSP Port External RTSP Port RTSP Status:	Auto [an [2120] [ivald [554 [2020] [ivald	×
			Αρρίγ

Figure 3-2-20 UPnP

[DDNS]

DDNS (Dynamic Domain Name System) solves the dynamic IP address problems.

Check DDNS check-box to enable it, then select a DDNS Server, input the user name, password and host name. Do not forget to save the configuration.

Milesight has its own DDNS server. Please do port forwarding for HTTP port and RTSP port before enabling **Milesight DDNS**. Then input corresponding information and you can use <u>http://ddns.milesight.com:MAC</u> to access device remotely.

Note:

"Host Name" must begin with letters, and it can only contain number, letters, and hyphen.

Setwork			×
asic PoA	Enable DONS DONS Server:	ddm.milenight.com	•
nnws-	External RTSP Ports	80	
Sam	External HTTP Point	354	
2P Abre	Long Cit. Hittyle	Insonieright.com/045CA	

Figure 3-2-21 DDNS

[E-mail]

Check whether the SMTP port can be set or not. Please enable SSL/TLS according to actual mailbox. (Some SMTP server needs to secure connection)

Basic UPnP DDMS	User Name Password: SMTP Serven			
Tonal P2P More	Port Encryption Host Name: Sender Address 1 Receiver Address 2 Receiver Address 3		έ E Enable	
		ок	Text	Apply

Set the Sender E-mail Address, User Name, Password, and SMTP Server:

Figure 3-2-22 E-mail

The meanings of the items on the Network page can be referred to the table below:

Table 3-2-2 E-mail

Item	Function Introduction
User Name	The E-mail address you chose to send emails
Password	The password of the E-mail
SMTP Server	The SMTP Server of your E-mail
Port	The port of SMTP Server, it's usually 25
Encryption	Check the checkbox to enable SSL or TLS if it is required by the SMTP server.
Host Name	The host address of the E-mail
Sender Name	Named by yourself for the Sender E-mail
Sender Address	It must be the same as [User name]
Select Receiver	You can have 3 receivers at one time
Receiver Name	Named by yourself for the Receiver E-mail

[P2P]

You can watch remote NVR live view in WAN by P2P on M-Sight Pro without doing port forwarding on router.

Click "Enable" and "Save" to enable P2P.

P2P is enabled successfully when P2P Status shows "Activated".

After enabling, you can add the NVR on the APP M-Sight Pro for live view via scanning the QR code on the "P2P" page directly, or inputting the MAC address manually.



Figure 3-2-23 P2P

[More]

SSH Port:

The default SSH port is 22. Only for Milesight R&D debugging.

HTTP Port:

The default HTTP port is 80. Please modify HTTP ports according to actual application.

HTTPS Port:

The default HTTPS port is 443. Please modify HTTPS ports according to actual application.

RTSP Port:

Real Time Streaming Protocol (RTSP) is an application layer protocol in TCP/IP protocol system.

The default RTSP port is 554. Please modify RTSP port according to actual application.

Push Message:

With this option enabled, you can receive the alarm message on the mobile application.

Push Event Type:

Select which alarm type will be pushed to APP M-sight Pro. It includes Motion Detection, Video Loss, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection and Object Left/Removed.

🖵 Network				×
Basic	SSH Ports	22		Enable SSH
UPnP	HITP Ports	8101		
ODN5	HTTPS Ports	4433		1
Emel	RTSP.Port	1554		1
P2P	Push Message:	Enable		
Mar	Push Event Type:	Edit		
			ок	Apply

Figure 3-2-24 More

Note

- Check the DHCP checkbox if there is a DHCP server running in networks;
- The valid range of MTU is 500~9676;
- Do not input an IP address conflicted with another device;
- "Host Name" must begin with letters, and it can only contain number, letters, and hyphen;
- It will email you a screenshot when motion detection is triggered;
- If your NVR has a port forwarding IP for Host Name, please input the complete address that contains the port;
- The default SSH port is 22, and the default HTTP port for IE browser is 80, while the valid range of RTSP port is 554 or 1024~65535.



Click the Holiday button, the Holiday window will pop up. Click the Edit button to edit the selected holiday schedule as below:

0	Holiday Name	Status	Start Date	End Date	E-St	
ŝ	Holiday	_	_		×	
2°	Holiday	Holiday Edition	CONTRACTOR OF THE			
3	Holiday	Holiday Enable Style:	Enable		-	
4	Holiday	Start Date:	Tanuary	-	-	
8	Holiday	Erid Oate:	February	•] [1	-	
6	Holiday	· Holiday sched	ule takes presede	ence wer nither scheduk Apply	Cancel	
2	Holiday			wbbA	Carce	
8	Holiday	Dicable	1-1	1-1	2	
9	Holiday	Disable	1-1	1-1	1	

Figure 3-2-25 Holiday

上 Users

Click the Users button, the setting window will pop up as below:

L Users					×
Security Ques	tion				
Edit					
Account Mana	agement				
Add					
ID	User Name	User Level	Edit	Delete	Ĩ.
1	admin	Admin	1	0.00	

Figure 3-2-26 User

[Security Question]

You can set the Security Question for your NVR, in case you forget the password, you can reset the password by answering the Security Question correctly.

Click "Edit" button, input Admin Password, and set three Security Question for your NVR, then click "OK".

Admin Password		
Security Question 1:	What's your father's name?	
Security Answer 1:		
lecurity Question 2:	What's your father's name?	
Security Answer 2		
Security Question 31	What's your father's name?	
Security Answer 3:		

Figure 3-2-27 Security Question

There are twelve default questions below, you can also customize the Security Question.

What's your father's name? What's your favorite sport? What's your mother's name? What's your mobile number? What's your first pet's name? What's your favorite book? What's your favorite food? What's your favorite food? What's your favorite color? What's your favorite color? What's your best friend's name? Where did you go on your first trip? Customized Question

Figure 3-2-28 Security Question

[Account Management]

There are three user levels Admin, Operator and Viewer in User option, you can click the Delete icon to delete "Operator" and "User" while unable to delete "Admin". Click the Edit icon setting window will show as Figure 3-2-27:

User Informatio	m		
Admin Password	<u> </u>		
Joer Level	Operator	•	
Jaar Name	(
wawerd		0	
Confirm Password	-		
Basic Permission	Camera Co	onfiguration	
Local Privilege		Remote Privilege	
Channel Menag	ervent	Channel Management	
PTZ Control		PTZ Control	
Record Settings		Record Settings	
Video/Picture E	eport	Video Export	
Event Settings		Event Settings	
👻 Status & Log		Status & Log	
General Settings	<u>.</u>	General Settings	
Network Setting	s	Network Settings	
Disk Managema	ett	Disk Management	
Holiday Configu	ration	Holiday Configuration	i i
System Upgrade		System Upgrade	

Figure 3-2-29 Edit User

The meanings of the items on the Edit User page can be referred to the table below:

Table 3-2-3 Edit User

ltem	Function Introduction
User Level	There are two user levels to choose from, operator and viewer
User Name	A name made by yourself to identify users
Admin Password	You should input the admin password before editing the user type
Password	Set the password for different user type
Confirm password	Re-input the same password to ensure the password
Basic Permission	Show the basic permission in different user types, you can scroll the blue bar to get more information
Camera Configuration	Choose different channels for different user types
	Add

Click the Add button , the setting window will pop up as below:

User Loval Operator User Series User Marce User Marce Ferservill Ferserv	User Information		 User Information
Nor-Nor- Reserved Confirm Reserved Confirm Re	Adria Nerrana (1	
Base Tremand Same Tremand Control Management Control Management Channel Management Control Management	Voer Nerre		Starr News
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Figure 3-2-30 Add User

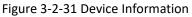
🖳 Status

Status includes Device Information, Network Status, Camera Status, Event Status and Disk Status. Status adopts the page form to display the contents.

[Device Information]

From this page, you can check the Device ID, Product Model, Camera Number(The maximum number of camera can be added to the NVR), HDD number(The maximum number of HDD can be supported to the NVR), Alarm Input Number, Alarm Output Number, MAC Address, Firmware Version, Hardware Version, Uptime and SDK Version.

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	And yor limiter	114 () () () () () () () () () (
		Stanta St.	
	Later.		2040) # 10



[Network Status]

It will show you information about the network, including: Receive Bandwidth, Connection, Mode, DHCP, MTU(B), IP Address, Subnet Mask, Gateway, MAC Address, Preferred DNS Server, Alternate DNS Server, Receive Rate, and Send Rate.

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	Studio hat	1.00 Aug	(and link	A Miles	

Figure 3-2-31 Network Status

[Camera Status]

It will show you the Channel, Name, IP address, Record or not, Frame Rate, Bitrate, Resolution of main stream, Status of connection.

and date	Jane	1414	-Calified	Tanind	Turplan	the	Balaite	Sec.
ed littles.		94	1011011-00		194	(man		Pre-sector
1 citization	1.0	-1888	101100-00-		100	100/1846	mante	()
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	44	(Anti)	DOLLAR DRIVE	-	200	10029440	and an other states	(mental)

Figure 3-2-32 Camera Status

[Event Status]

The icon will turn to red when the device is in the event status:

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		LAMP .	(economia)				
	1.0	1040		8.1			
		1440	- HURDEN -				

Figure 3-2-33 Camera Event

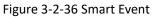
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		*		
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Figure 3-2-34 Alarm Input List

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		- issert				
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		COMPANY.				
		Castin				

Figure 3-2-37 People Counting

[Disk Status]

It will show you the Disk port, Vendor, Status, Total capability, Used capability, Free capability HDD type, In use or not and Recycle Mode on or off.

	mana - 1	
Information applies Polyania Standard States States Falses States Falses	Ser Sec	T
	armente de la companya de la compa	

Figure 3-2-38 Disk Status

✗ Maintenance

The Maintenance page is as below:

K Maintenance		×
System Manager	nent	
Reboot the device:	Reboot	
Reset:	Keep the IP Configuration	
	Keep the User Information	
	Reset	
Firmware File:		Upgrade
	Restore after upgrading	
Import Configuration F	le: [Upload
Export Configuration Fi	e: Backup	

Figure 3-2-39 System

The meanings of the items on System page can be referred to the table below:

Table 3-2-4 System

Parameters	Function Introduction
Reboot	Click the button to reboot the device
Reset	Click the button to reset the settings to the default one.
 ✓ Keep the IP Configuration ✓ Keep the User Information 	 Keep the IP Configuration: keep the IP configuration when resetting the device. Keep the User Information: keep the User configuration when resetting the device. Note: If you disable the "Keep the User Information" option when resetting the device, the device will be reset to the 'Inactive' status, you need to set a password for it again.
Upgrade	Click the Solution to import the firmware file from PC, and click the Upgrade button to upgrade.
Restore after upgrading	Enable this option to restore the settings to the default one after upgrading the device.
Upload	Click this button to import the configuration file.
Backup	Click this button to export the configuration file.

3.2.1.5 Camera

The Device Configuration for Network Camera which inside NVR is as below:

at Annipeis - and Des	ins a la benefact	4 A			31MH H 10175	
Video	Villes	An [®]				
Event	Status Detection	H	V.C.A	a		
	Video	Video Vites Event	Video Engr	Video Video	Video Video	Video Video

Parameters

The Parameters page is as below:

Parameters	5	?
Primary Stream	12	
Channel Name:	Pro Bullet	
Video Codec:	H.264	1
Frame Rate:	25	
Resolution:	1920*1080	1.5
Bitrate:	4096	•
Smart Stream:	On	∵ ▼
Level:	5	
Bitrate Control:	CBR	1
I <mark>-f</mark> rame Interval:	50	.
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Audio: Secondary Stre Secondary Stream: Video Codec:	Enable Audio Enable Finable H.264	
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Audio: Secondary Stre Secondary Stream: Video Codec: Frame Rate: Resolution:	 Enable Audio Enable H.264 25 640*480 512 	• • • • •

Figure 3-2-41 Video of Camera inside NVR

The meanings of the items on the page can be referred to the Table 3-2-5.

🔛 Image

The Image page is as below:

🔄 Image		×	🛋 Image		×
	Whatehe		Pro Editor	A Minight	
Display			Display		
Power Line Frequency:	SOHz	¥.	Enhancement		
Day/Wight Mode:	Auto Mode	•	IR Balance Mode:	Off	•
			Defog Mode:	0ff	•
Day to Night Value:	30	Repet	Digital Image Stabili		•
Night to Day Value:	82	Reat	White Balance: Exposure Moder	Auto Write Balance	•
IR Light Sensor Value:	100	0	BLC/WDR/HLC Mode		•
Outdoor/Indoor Mode:	Outdoor	•	BLC/WDR/HLC:	WDR	•
Corridor Mode	(oe	-	Wide Dynamic Range	A CONTRACTOR OF	•
Compor Mode	100	•	Wide Dynamic Level: Anti-flicker Level	Auto 10	•
Image Rotation:	CHH .	•	And and the Cover	24	~
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Day/Night Settings			Day/Night Settin	iqs	
OSD			OSD		
Privacy Mask			Privacy Mask		
ROI			ROI		
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OSD Privacy Mask		×	Privacy Mask	Al Sevarra Serable Top-Left Top-Left Top-Right	×
Display Enhancement Day/Night Settings Cay/Night Settings		×	Video Stream Show Video Stream Show Video Stream Show Video Stream Show Video Title Text Position Show Timestampi Date Position Date Format	Al Sevarra Serable Top-Left Top-Left Top-Right	

			×	Image	
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Day/Nig	ght Settings			Day/Night Settings	
OSD				OSD	
Privacy	Mask			Privacy Mask	
		Clear Al		ROI	
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	Тури:	White	•	Enablei	M
ID	Name	Enable	Delete	Video Stream:	Primary Stream 💌
1	Mask1				
ROI					

Figure 3-2-42 Image of Camera inside NVR

The meanings of the items on the page can be referred to the Table 3-2-6 to Table 3-2-9.

Solution Detection

The Motion Detection page is as below:

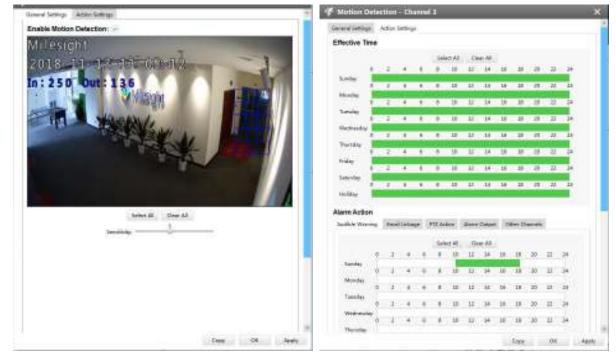


Figure 3-2-43 Motion Detection of Camera inside NVR

[General Settings]

Check the checkbox to enable the Motion Detection function, you can draw the interested area or click the Select All button Select All to select all area interested. And the sensitivity ranges from 0 to 10.

[Action Settings]

Set Effective Time of advance motion detection in this page. Here are five options for Action Settings [Audible Warring] [Email Linkage] [PTZ Action] [Alarm Output] [Other Channels] that you can select. After choose the alarm action you can draw the schedule. And then click [OK] or [Apply] after all set.

Video Loss

The Video Loss page is as below:

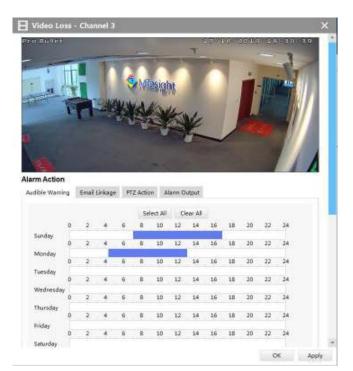


Figure 3-2-44 Video Loss

Here are three options for alarm action [Audible Warring] [Email Linkage] [PTZ Action] [Alarm **Output]** that you can select. After choose the alarm action you can draw the schedule. And then click [OK] or [Apply] after all set. You also can copy the settings to other channels.

VCA Smart Event

The Smart Event page is as below:

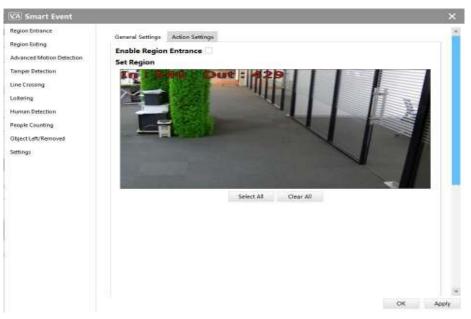


Figure 3-2-45 Smart Event

Here are nine options for Smart Event-General Settings page [Region Entrance] [Region Exiting] [Advanced Motion Detection] [Tamper Detection] [Line Crossing] [Loitering] [Human Detection] [People Counting] [Object Left/Removed](Optional) that you can select. Beside, you can choose the [Settings] to do some basic setup.

Step1: Check the checkbox to enable the smart event that you choose, you can draw the interested area or click the Select All button Select All to select all area interested.

Step2: After general settings you can draw the schedule in the **Action Settings** page. And then click **[OK]** or **[Apply]** after all set. You also can copy the settings to other channels.

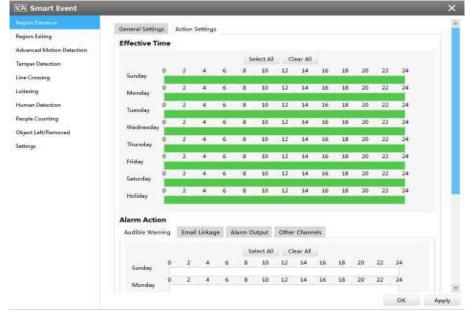


Figure 3-2-46 Action Settings

Notes

- If you haven't activated the VCA function, please contact Milesight sales first.
- Object Left/Removed is optional, if you need this function, please contact Milesight sales first.



ANPR settings include General Settings, List Management, Black List Mode, White List Mode and Visitor Mode.

Note:

①Please upgrade your device/software to corresponded version.

Camera: V4X.7.0.72-r16 or above.

NVR: V7X.9.0.7-r7 or above.

CMS: V2.4.0.7 or above.

(2) For more information, please refer to *Milesight-Troubleshooting-LPR setting-LPR1, Milesight-Troubleshooting-LPR setting-LPR2, Milesight-Troubleshooting-LPR3*.

[General Settings]

Do as following steps to enable ANPR function. Camera will start to detect license plate and NVR will start to receive license plate information once these steps are done.

ANIPR - CI	umui 7	_	_	_	
eneral Settings	Difference of	Herichitz Mode	Wile Lid Mode 110	ubor Modia	
	E				E. I
		+ 444 - 1 Ma	Daw Chair M	Dente	
-1		10.	1		
	at last last	1706a (j.). 1172 (j.).	lettillet20udtieedtet	Maa Hubble Sig Styles	_
literes Teres	(9986				11
Preiming Real	Adam Line 720				
Allestive Times			649		
Detection Gaming			6/9		
	Autor to Barb Ltd.	Particle Logical Women	Minute.		

Figure 3-2-47 ANPR Settings

Step1: Select processing resolution. The further distance you detected, the higher resolution is needed. 1280*720 by default;

Step2: Set ANPR function effective time;

Step3: Set detection settings including detection trigger, confidence level, repeat plate checktime and features identification;

Detection Trigger: Always and Alarm Input are available. It will only detect when alarm input is triggered if you select Alarm Input.

Confidence Level: Set the degree of reliability according to the actual situation.

Repeat Plate Checktime: The same license plate information won't be received on NVR within the time you set. **Features Identification:** The selected features identification will be shown in ANPR logs interface.

Detection Trigger:	Almaya		
Repeat Plate Checktime	0	Miliseconds	[0-60000ms]
Features Identification:	 ✓ All ✓ Direction 	ROLIC	
			κ Δροίν

Figure 3-2-48 Detection Settings

Step4: Set the detected ROI region which can be up to 4 regions. License plate will only be detected in the ROI regions.

[List Management]

Make a license plate list for your own NVR ANPR system. You can upload license plates and set them with different license type here. 10000 plates can be added at most.

List Management	Black List Mode	White List Mode	Visitor Mode		
			Plate Type	All .	• Search
icense Plate	p	late Type	Edit		Delete
		Tozali M 4		1/1	Go Page 1/1
	List Management			Plate Type	Plate Type All

Figure 3-2-49 List Management

There are two methods to add license plates:

1 Add one by one.

Step1: Click Add button Add ;

Step2: Input the license plate and select license type;Step3: Click OK and then the license plate will be added into the list;

🖨 License Plat	e Add	>
License Plate	123456	
Plate Type	Black	
		Save

Figure 3-2-50 License Plate Add

2 Batch adding by importing template.

Step1: Click here to download the template. , select a path and click "Choose" to download Template;

Step2: Input all license type and license plate number as Template shows;

d.	A	В
1	Type	Plate
2	White	20082GZ
3	Black	34AB1234
4	((1323))	10010-000

Step3: Click Import button Import , select the file and click "Open" to add all license plates into list.

[Black List Mode] /[White List Mode] /[Visitor Mode]

We provide you three modes for better event management, which is based on two license types. Black List Mode: Manage event for license plates in black list.

White List Mode: Manage event for license plates in white list

Visitor Mode: Manage event for those license plates do not have license type.

ieneral Settings	11	list Mana	gement	Blac	k List N	Ande	White Lit	t Mode	Visitor	Mode				
Black List M	ode	. P												1
Effective Tin	ne													
						Select Al	1 0	ar Al						
	0	z	4	ō	В	10	12	14	16	1.8	20	22	24	
Sunday	0	z	4	6	8	10	12	14	16	18	20	22	24	
Monday	0	2			в	10	12	14	16	18	-	-	24	
Tuesday	-	-		0	8	10	14	10	10	18	20	22		
	0	z	4	6	8	10	12	14	16	18	20	2Z	24	
Wednesday	0	z	4	0	8	10	12	14	16	1.8	20	22	24	
Thursday	0	z	4	6	8	10	12	14	16	18	20	22	24	
Friday		2		0	8	10	12	15	10	18	20	20		
	0	2	4	0	B	10	12	14	16	18	20	22	24	
Seturday	0	z	4	6	8	10	12	14	16	18	20	22	24	1
Holiday														
Alarm Actio	n													
Audible Warn	ing	Emailt	inkage	PTZ #	noital	Alarm	Output	Other	Dannels	I				
						Select Al	a	ur All						
	σ	2	4	6	8	10	12	14	16	18	20	22	24	
Sunday	-		1.4	12			12		-				4	12
												OK.	Apply	

Figure 3-2-51 Black List Mode

Step1: Enable Black List Mode/White List Mode/Visitor Mode as needed;

Step2: Set effective time which means Mode works during that;

Step3: Set action including Audible Warning, Email Linkage, PTZ Action, Alarm Output and Trigger Channels Record.

Audible Warning: NVR will trigger an audible beep when the corresponding license plate is detected.

Email Linkage: NVR will send an email to the address you set before.

PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes Preset and Patrol.

Alarm Output: Trigger alarm output when alarm is triggered.

Other Channels: Trigger other channels record when alarm is triggered.

3.2.2 Camera

The Device Configuration for Network Camera is as below:

O same of the same	a minter	1.0					
Constant of the second	Video		<u></u> *	۹D) 			
	bert	±≩° Natur transfer	8 4 9	1 Deretael	A	VCA	
	Record	1					
	System		1	1	*		

Figure 3-2-52 Camera

3.2.2.1 Video

🔛 Video

The Video page is as below:

			×
Primary Stream			
Video Codec:	H.264	•	
Frame Size:	[1080P(1920*1080)	•	
Maximum Frame Rate:	23	•	fps
Bit Rate:	16384	•	kbps
Smart Stream:	On	•	
Level:	5		
Bit Rate Control:	CBR	•	
Profile:	Main	•	
I-frame Interval:	50		frame(1-120)

Secondary Stream			
Enable:			
Video Codec:	H.265		
Frame Size:	704*576		1
Maximum Frame Rate:	25	•	fps
Bit Rate:	768	•	kbps
Smart Stream:	On	•	
Level:	5		
Bit Rate Control:	CBR	:	
Profile:	Base		1 📙
l frama <mark>Intanuali</mark>	[50		frama(1 100) *
Tertiary Stream			
		OK	Apply

Figure 3-2-53 Video

The meanings of the items on Video page can be referred to the table below:

Parameters	Function Introduction
Video Codec	H.265/H.264 available
Frame Size	Options include 4M(2592*1520),3M(2048* 1536), 1080P(1920*1080), 2M(1600 *1200), 1.3M(1280*960), 720P(1280*720), D1 (704*576)
Maximum Frame Rate	Maximum refresh frame rate per second
Bit Rate	Transmitting bits of data per second, this item is optional only if you select the H.264
Smart Stream	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. It is optional to turn On/Off Smart Stream mode. Level: Level 1~10 are available to meet your need.
	CBR: Constant Bitrate. The rate of CBR output is constant
Bit Rate Control	VBR: Variable Bitrate. The rate of VBR output will be variable according to the occupation of bandwidth
Profile	The option is for H.264. Base/Main/High can be selected according to your needs

Table 3-2-5 Video

Set the I-frame interval to 1~120, this item is optional only if you selected the $\rm H.264$

.....

🔛 Image

The Image page as shown below:

[Display]

🖃 Image		×
Display		
Power Line Frequency:	50Hz	
Day/Night Mode:	Auto Mode	•
Day to Night Value:	30	Renet
Night to Day Value:	12	Result
IR Light Sensor Value:	100 📀	
Outdoor/Indoor Mode:	Outdoor	
Corridor Mode	Off	•
Image Rotation:	Cr#	•
Enhancement		
Day/Night Settings		
OSD		
Privacy Mask		
ROI		
	Сору ОК	Apply

Figure 3-2-54 Display

Referring to the following table for the illustration of each item on the image page:

Table 3-2-6 Display

Parameters	Function Introduction
Power Line Frequency	60HZ flicker for NTSC mode and 50HZ flicker for PAL mode

Day/Night Mode	There are several parameters associated with this mode such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc. Night Mode: Shown in the live view based on Night Mode settings Day Mode: Shown in the live view based on Day Mode settings Auto Mode: Shown in the live view based on environment, set the sensitivity for switching Day Mode to Night Mode, or Night Mode to Day Mode Customize: Shown in the live view based on your own settings' time to start/end Night Mode
Day To Night Value	This is 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
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
IR Light Sensor Value	The current value of the IR light sensor
Smart IR Mode	With the combination of the High Beam and Low Beam, The IR LEDs technology has been upgraded to provide better image clarity and quality regardless of the object distance. Also, the Low Beam and High Beam's brightness can be adjusted manually or automatically on the basis of the Zoom ratio. Moreover, with the IR anti-reflection panel, the infrared light transmittance is highly increased. Support to set the intensity of the IR to Auto Mode or Customize to achieve the best effect.
Near view level	Adjust the light intensity of Low-Beams LED light level from 0 to 100.
Far view level	Adjust the light intensity of High-Beams LED light level from 0 to 100.
IR Strength Value	The current value of Low-Beams LED and High-Beams LED light value
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs
Corridor Mode	There are three options available, you can select one to meet your need Off: Keep the image in normal direction Clockwise 90°: Rotate the image by 90° clockwise Anticlockwise 90°: Rotate the image by 90° anticlockwise
Image Rotation	There are four options available, you can select one to meet your need Off: Keep the image in normal direction Rotating 180°: Invert the image Flip Horizontal: Flip the image horizontally Flip vertical: Flip the image vertically
Local Display Video (Only for Pro Bullet)	Select NTSC or PAL for local display

[Enhancement]

Image Protection		×
Display		
Enhancement		
IR Balance Mode:	Off	
Defog Mode:	Off	
Digital Image Stabilisation	Off	
White Balance:	Auto White Balance	-
Exposure Mades	Auto Mode	•
BLC/WDR/HLC Mode:	Single Mode	
BLC/WOR/HLC:	WDR	•
Wide Dynamic Rangel	On	•
Wide Dynamic Level:	Auto	•
Anti-flicker Level	10	
Day/Night Settings		
OSD		
Privacy Mask		
ROI		
	Copy OK Ap	ipły

Figure 3-2-55 Enhancement

The meanings of the items on Image page can be referred to the table below:

Parameters	Function Introduction
	There is an option to turn On/Off the IR LED.
IR Balance Mode	IR Balance Mode would avoid the problem of overexposure and darkness,
	and the IR LED will change according to the actual illumination.
Defog Mode	Better image effect in foggy weather.
Digital Image Stabilisation	Decrease the blur and shakiness of the image.
	To restore white objects, removed color distortion caused by the light of
	the environment
White Balance Auto White Balance: This option will automate Balance function Balance function	Auto White Balance: This option will automatically enable the White
	Balance function
	Manual White Balance: This option is only for H.265 series. 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	
	Schedule mode: Select this option that you can customize the schedule to	
	enable/disable above modes	
	Auto Mode, Manual Mode and Schedule Mode are available.	
	Auto Mode: The camera will adjust the brightness according to the light	
	environment automatically;	
	Manual Mode: The camera will adjust the brightness according to the	
Exposure Mode	value you set, you can set the exposure time from $1^{-1}/100000$ s, the higher	
	the value is, the brighter the image is;	
	Schedule Mode: You can customize the schedule to enable/disable Auto	
	Mode and Manual Mode.	
	Single Mode: Set single mode for BLC/WDR/HLC.	
	Day/Night Mode: Support BLC/WDR/HLC on Day Enhancement	
BLC/WDR/HLC Mode	Mode/Night Enhancement Mode separately.	
	Schedule Mode: Set schedule mode for BLC/WDR/HLC.	
	Off, Customize, and Centre are available (in single mode, only enable when	
	WDR is disable)	
	Off: Calculate the full range of view and offer appropriate light	
	compensation	
BLC Region	Customize: This option enables you to customize inclusive or exclusive	
	region manually	
	Centre: This option will automatically add an inclusive region in the middle	
	of the window and give the necessary light compensation	
	This function which can capture and display both bright and dark areas in	
	the same frame enables details of objects in both bright and dark areas to	
	be visible.	
Wide Dynamic Range	Off: Disable WDR function	
, , , , , , , , , , , , , , , , , , , ,	On: Enable the WDR, there are three levels of Low/High/Auto	
	Customize: Customize the schedule to enable/disable the WDR function	
	and set the levels with Low/High/Auto	
Wide Dynamic Level	Set WDR with Low/High/Auto level	
	Reduce flickers that appear on screen in some lighting conditions and there	
Anti-flicker Level	are 10 levels of anti-flicker adjustments	
	This function is only for H.265 series to adjust the brightness to a normal	
	range when the light is strong, refers to Figure 4-4-11	
High Light Compensation	Off: Disable HLC function	
	General Mode: Enable the general mode of HLC, and there is a setting for	

	HLC Level
	Enhanced Mode: Enable the enhanced mode of HLC, and there is a setting
	for HLC Level
HLC Level	Select level for HLC
Day Enhancement Mode	BLC/WDR/HLC are available.
Night Enhancement Mode	BLC/WDR/HLC are available.
Schedule Setting	Customize the schedule to enable/disable BLC/WDR/HLC mode

[Day/Night Settings]

🖃 Image			×
Display			
Enhancement			
Day/Night Settings			
Oay/Night Settings:	Edk		
OSD			
Privacy Mask			
ROI			
	Сору	QK	Apply

Figure 3-2-56 Day/Night Settings

Referring to the following table for the illustration of each item on the image page:

Parameters	Function Introduction
Exposure Level	Level 0~10 are available to meet your need

Table 3-2-8 Day/Night Settings

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
IR-CUT	Turn on or turn off IR-CUT
IR LED	Turn on or turn off IR-LED
Color Mode	Select B/W or Color mode under Day/Night mode
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

[OSD]

Image	and the second	×
	NAMALAN	
41		
the -		
1		
Display		
Enhancement		
Day/Night Setti	ıgs	
OSD		
Video Stream:	Al Streams	•
Show Video Title:	- Enable	
Video Title:	Pro Bullet	1
Text Position	Top-Left	(¥)
Show Timestampi	Enable	
Date Position	Top-Right	· · · · · · · · · · · · · · · · · · ·
Date Format	DD-MM-YYYY	
Privacy Mask		
ROI		
	Сору ОК	Apply

Figure 3-2-57 OSD

Referring to the following table for the illustration of each item on the image page:

Table 3-2-9 OSD

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

[Privacy Mask]

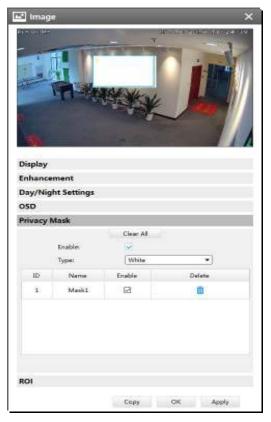


Figure 3-2-58 Privacy Mask

Milesight CMS supports privacy mask. And it supports maximum 8 areas for privacy mask.

The setting steps are shown as below:

Step1: Check the checkbox to enable the Privacy Mask function;

Step2: Choose the mask type. There are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and Violet;

 Step3: Hold the mouse to draw the area and click
 Apply
 button to apply settings;

 Step4: Click the
 Clear All
 button to clear all drawn area.

[ROI]

Image	X New York Control of the Second Seco
Display	
Enhancement	
Day/Night Settings	
OSD	
Privacy Mask	
ROI	3
	Ciear All
Enables	M
Video Streem:	Primary Stream *
	Сору ОК Аррју

Figure 3-2-59 ROI

Milesight CMS supports ROI and supports setting up to 8 areas for primary and secondary streams respectively. The setting steps are shown as below:

Step1: Check the checkbox to enable the ROI function;

Step2: Choose the video stream type as primary or secondary stream;

Step3: Hold down the mouse to draw the area and click Apply button to apply settings;

Step4: Click the Clear All button to clear all drawn area.

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.

Enable Audio:	
Audio Mode:	Both Mic & Speaker
Denoise:	
Encoding:	G711-ULAW
Sample Rate:	8KHz
Input Gain:	
Alarm Level:	
Auto Gain Control:	
Output Volume:	

Figure 3-2-60 Audio

The meanings of the items on Audio page can be referred to the table below:

Parameters	Function Introduction
Enable Audio	Check the checkbox to enable audio feature Audio Mode: Only Mic, Only Speaker, Both Mic and Speaker are available
Audio Input	Denoise: Set it as On/Off. When you set the function on, the noise detected can be filtered Encoding: G711-ULaw, G711-ALaw and AAC LC are available Sample Rate: There are 8KHz/16KHz two options 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, 0-100 Auto Gain Control: Set it as On/Off. Output Volum: Output level, 0-100

Table 3-2-10 Audio

3.2.2.2 Event

Motion Detection

Check the checkbox to enable the Motion Detection function, you can draw the interested area or click the Select All button Select All to select all area interested. And the sensitivity ranges from 0 to 10. Here are four options for alarm action, [Upload Via FTP], [Upload Via SMTP], [Save Into SD Card], [External Output] and [HTTP Notification]. And click the Edit Schedule button Edit Schedule to enable the Motion Detection, then apply the settings.

Enable Motion D	etection:		
Set Motion Regio			
ATC BUILDE	S Wiesigh		
	Select All Sensitivity:	Clear All	the state
Alarm Action			
Upload via FTP:	IVA 🔍		
Upload via SMTPI	A 196	-	
Save into SD Card:	AV1	· · ·	
External Output:			
	Clover # Cito	nded	
	Groumded		
HTTP Notification	11 C	11000	
Trigger Internal	9	(0-800)+	
urtte Nidelfonion (in the second		
HTTP Upper Names	-		
HTTP Paramet			
HTTP Fastering			

Figure 3-2-61 Motion Detection

🖤 Audio Alarm

Audio function should be enabled before enabling Audio Alarm. CMS supports several alarm actions when alarm has been triggered. Do not forget setting FTP and SMTP before enabling the alarm function.

	(Make Sure Audio is enabled first)
Alarm Action	
Upload via FTP: 🗌 🚺	VI =
Upload via SMTPr 🗌 📄	NG. =
Save into SD Card:	VI
Esternal Output:	
Normal Statute COpered	B Grounded
Current Blatuit Grounded	L.
HTTP Notification:	
Trigger Interval	(0-k0d0-
WITT Statification 1/95	
NTTP NORBARION LINE	
NTTE Notification (JR);	

Figure 3-2-62 Audio Alarm

🛎 External Input

Enable the function first before you using it. CMS supports several alarm actions when alarm has been triggered. Do not forget setting FTP and SMTP before enabling the alarm function.

渣 External Input	×
Enable External Input:	
Normal Status: 🖲 Low 🔘 High	
Current Status: Low	
Alarm Action	
Upload via FTP:	
Upload via SMTP: JPG 💌	
Save into SD Card:	
External Output:	
Normal Status; Open I Grounded	
Current Status: Grounded	
HTTP Notification:	
Trigger Interval: 0 (0-900)s	
HTTP Notification URL:	
HTTP User Name:	
HTTP Password:	
Edit Schedule OK	

Figure 3-2-63 Alarm I/O

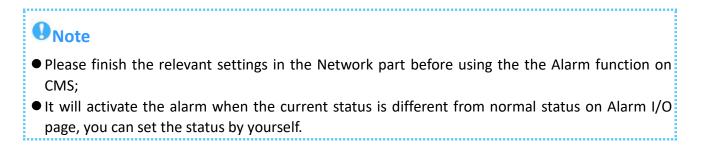
🔺 Other Alarm

There are two Alarm Types in Exception: Network Lost and IP Conflict. See Figure 3-2-37:

A Other Alar	m	×
Alarm Type:	Network Lost	•
Enable Netw	ork Lost:	
Alarm Action	1	
External Output:		
Normal Status	: Open Ogrounded	
Current Status	Grounded	

OK Apply

Figure 3-2-64 Other Alarm



VA Smart Event

The Smart Event-General Settings is as below:

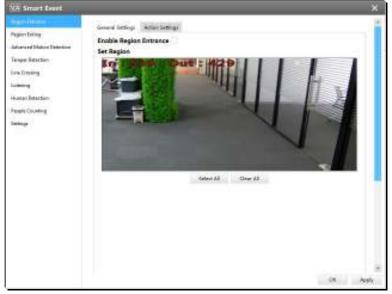


Figure 3-2-65 Smart Event-General Settings

Here are nine options for Smart Event-General Settings page [Region Entrance] [Region Exiting]

[Advanced Motion Detection] [Tamper Detection] [Line Crossing] [Loitering] [Human Detection] [People Counting] [Object Left/Removed](Optional) that you can select. Beside, you can choose the [Settings] to do some basic setup.

Step1: Check the checkbox to enable the smart event that you choose, you can draw the interested area or click the Select All button Select All to select all area interested.

Step2: After general settings you can draw the schedule and setting **Alarm Action** in the **Action Settings** page. And then click **[OK]** or **[Apply]** after all set. You also can copy the settings to other channels.

Openantine of	10 10 m	2				
Region Exiting	General Settings Action Se	langs				
Advanced Motion Detection	Effective Time					
		Period1	Period	1	iod3	
Tamper Detection	Sunday 00:00	# 23/50 # 08	8:00 \$	00:00 \$ 00:00 \$	00:00 \$	Copy to Other Days
Line Crossing	Monday 00.00	23:39 0	0.00 0	0.00 0 0 00.00 0	00,00:\$	Copy to Other Days
Lotering	Tuesday (00:00)	24:39 # 01	0-92 # 0	(\$ 00-00 (\$ 00-00	00:00 \$	Copy to Other Days
Human Detection	Wednesday 00.00	€ 23:59 € 00	0.00.0	\$ 20.00 \$	00:00 \$	Copy to Other Days
People Counting	Thursday 00:00	# 23:59 # 00	0.00 \$ 0	00:00 \$ 00:00 \$	\$ 00:00	Copy to Other Days
	Friday 00.00	22.59.01 02	0.00 0	\$ 50.00 \$ 50.00	00,00.0	Copy to Other Days
Object Left/Removed	Saturday 00:00	\$ 23.50 \$ 00	0.00 # 6	\$ 08:00 (\$ 00:00	00:00 \$	Copy to Other Days
Settings			Repo	et		
	Alarm Action					
	Save Into Storage:	w brane				
	Upload Via FTPi	sund +				
	Upload Via SMTP:	mapuboz =				
	External Output:	leave configure the	e Esternal C	Output Action Time.)		
	Nurmal Datum @Ope	Counded .				
	Current Status: Ground	ad				
	Play Audic:	ie enable the Rud	lu tipeskeri			
	Alarm to SIP Phone:	ie einblie (be SRI)				
	White LED:					
	HTTP Notification		2000			
	Tógger Intervali (1		10-200e			
	HTTP Notifeedan URL					
	HTTP Litery Nerrosci		3			
	HTTP: Reiswords					
	Alarm Setting					
	Record Video Sections:	5 seconds				
	Pre-Record:	0 second	+			
	Snapshoti	3	•			
	Snapshot Interval:	1		• hnoseelfm		
	External Output Action Times	904	-			
	Executing Stalloor account united					

Figure 3-2-66 Action Settings

.....

Notes

- If you haven't activated the VCA function, please contact Milesight sales first.
- Object Left/Removed is optional, if you need this function, please contact Milesight sales first.

3.2.2.3 Record

Record

CMS supports to record video in SD card of camera or NAS. You can set the record file size from 10M to 256M, select the record frame type for All or Key and set the time to record. The Record page is as below:

Record Storage Type:			SD	¥.			
File Sizes:	256		NAS	-	(10-256)M		
Record Frame Type:	AB		1040		0		
Select 41	Peri	edl	Per	od2	Peo	6boi	
Sunday	90:00 \$	23,99 #	00:00-#	90,00 \$	00:00 \$	00:00-\$	Copy to Other Da
Monday	00:00 #	23,55 \$	00.00 4	\$ 00:00	00.00 #	00.00 4	Copy to Other Da
Tuesday	00:00 #	2849 \$	00:00 \$	00:00 #	00:00 #	00-00 \$	Copy to Other Da
Wednesday	00.00 \$	73.59 \$	00.00.0	00.00.4	00.00 \$	00.00 \$	Copy to Other Da
Thursday	00:00 #	29.99.\$	00:00.0	00:00 \$	00:00 \$	00:00 \$	Copy to Other Da
Friday	8000 #	23.59.4	\$ 50.00	100:00 \$	00.00 #	\$ 10.00	Copy to Other Da
Saturday	00:00 \$	29.59 \$	(\$ 00:00	00:00 \$	00:00 #	(\$ 00-00	Copy to Other Da

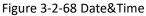
Figure 3-2-67 Record

3.2.2.4 System

Date&Time

You can select the time zone and decide whether to enable the Daylight Saving Time or not. It also supports to sync date and time with NTP or set the time manually. After finishing the settings, click the Apply button Apply to save and apply the settings to the CMS.

Date:	2018/1/30	
Time:	17:24:08	
Time Zone:	8 China (Beijing)	8
Daylight Sa	ving Time	
SNTP Serve	r: [pool.ntp.org	
O SIAN SCIVE		





The Network page is as below:

🖳 Networ	ĸ		×
Jetwork MTP TP	Manual IP Address:	DHCP	
DDNS Port	Subnet Mask:	255.255.252.0	
	Gateway:	192.168.199.1	
	DNS:	8.8.8.8	
		Aj	oply

Figure 3-2-69 Network

[SMTP]

Alarm video files will be sent to specific mail account through SMTP server. Please make sure that the SMTP settings were correctly set before using it.

🖵 Networ	ĸ			>
Network	User Name:	(L.P.		
SMTP		hdipnc		
ТР	Sender:	hdipnc@sin	a.com	
DDNS	Password:			
Port	Server:	smtp.sina.co	om	
	Port:	25		
	To E-mail1:	user@doma	iin.com	
	To E-mail2:	[
	Encryption:	SSL		3
		OK	Test	Apply

Figure 3-2-70 SMTP

The meanings of the items on SMTP page can be referred to the table below:

Parameters	Function Introduction
User Name	The sender's name. It is usually the same as the account name

Table 3-2-11 SMTP

Sender	Email address to send video files attached to emails
Password	The password of the sender
Server	The SMTP server IP address or host name(e.g.smtp.gmail.com)
Port	The port of SMTP server. The default TCP/IP port for SMTP is 25(not secured). For SSL/TLS port, it depends on the mail you use
To E-mail	E-mail address to receive video files
Encryption	Check the checkbox to enable SSL or TLS if it is required by the SMTP server

[FTP]

Alarm video files will be sent to specific FTP server. Please make sure that the FTP settings were correctly set before using it.

L Network			×
Network SMTP FTP	Server: Server Port: User Name:	192.168.5.1 21 admin	
DDNS Port	Password: FTP Folder Name:	default_folder	
		ОК	Apply

Figure 3-2-71FTP

The meanings of the items on FTP page can be referred to the table below:

Tabl	e 3-2	-12	FTP

Parameters	Function Introduction
Server	FTP server address
Server Port	The port of the FTP server. Generally it is 21
User Name	User name that used to log in to the FTP sever

Password	User password
FTP Folder Name	Path where video will be uploaded to on the FTP server

[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.

Network SMTP FTP	Enable DDNS DDNS Server: External HTTP Port:	ddns.milesight.com	•
DDNS	External RTSP Port:	554]
Port	External Playback Port: DDNS URL: http://ddns. Note: Recommend to enab be used directly in DDNS.	555 milesight.com/219804 ele and configure UPnP porte	s which can
		ОК	Apply

Figure 3-2-72 DDNS

The meanings of the items on DDNS page can be referred to the table below:

Table 3-2-13	DDNS
--------------	------

Parameters	Function Introduction
Enable DDNS	Check the checkbox to enable DDNS service
Name	Support DDNS from now dyndns.org, freedns.afraid.org, www.no-ip.com, www.zoneedit.com and Customize
User name	Account name obtained from DDNS provider
Password	Account password
Host name	DDNS name enabled in the account

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". Note:

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

[Port]

You can set HTTP and RTSP port here.

🖵 Network			×
Network SMTP	HTTP Port:	80	
FTP DDNS	RTSP Port:	554	
Port			

Figure 3-2-73 Port

L Users

Click the Users button, the setting window will pop up as below:

ecurity Ques	tion			
Edit ccount Mana	soamant			
Add	agement			
ID	User Name	User Level	Ed≹	Delete
1	admin	Admin	1	0#8

Figure 3-2-74 User

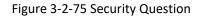
[Security Question]

You can set the Security Question for your camera, in case you forget the password, you can reset the password by answering the Security Question correctly.

Click "Edit" button, input Admin Password, and set three Security Question for your camera, then

click "OK".

Admin Password		
Security Question 1:	What's your father's name?	
Security Answer 1:		
Security Question 2:	What's your father's name?	2
Security Answer 2:		
Security Question 3:	What's your father's name?	
Security Answer 3:	[
		ОК



There are twelve default questions below, you can also customize the Security Question.

What's	your father's name?
What's	your favorite sport?
What's	your mother's name?
What's	your mobile number?
What's	your first pet's name?
What's	your favorite book?
What's	your favorite game?
What's	your favorite food?
What's	your lucky number?
What's	your favorite color?
What's	your best friend's name?
Where	did you go on your first trip?
Custon	nized Question

Figure 3-2-76 Security Question

[Account Management]

There are three levels of Users: Admin, Operator, and Viewer. Admin can not be deleted and you can only change its password. Operator and Viewer can be added, edited or deleted.

User Informati	on	
Admin Password		
User Level	Admin	¥
User Name	admin	
Password		
Confirm Password		
		OK

Figure 3-2-77 Edit User

🗙 System

The System page is as below:

System			
Device Name:	Network Camera]	
roduct Model:	MS-C2964-FPB		
Hardware Version:	V1.2		
oftware Version:	40.7.0.72-r2		
MAC Address:	1C:C3:16:24:09:D2		
		ок	Apply
Maintenance			
Reboot the device:	Reboot		
Reset:	Keep the IP Config	juration	
	Keep the User Info	ormation	
	Reset		
irmware File:	2	۲)	Upgrade
	Restore after upgr	ading	
mport Configuration	n File:	۲)	Upload
xport Configuration	File: Backup		

Figure 3-2-78 System

The meanings of the items on System page can be referred to the table below:

Parameters	Function Introduction	
Device Name	The device name can be customized. It will be seen in file names of video files	
Product Model	The product model of the camera	
Hardware Version	The hardware version of the camera	
Software Version	The software version of the camera can be upgraded	
MAC Address	Media Access Control address	
Reboot	Click the button to reboot the device	
Reset	Click the button to reset the settings to the default one.	

Table 3-2-14 System

✓ Keep the IP Configuration ✓ Keep the User Information	 Keep the IP Configuration: keep the IP configuration when resetting the device. Keep the User Information: keep the User configuration when resetting the device. Note: If you disable the "Keep the User Information" option when resetting the device, the device will be reset to the 'Inactive' status, you need to set a password for it again. 	
Upgrade	Click the solution to import the firmware file from PC, and click the Upgrade button to upgrade.	
Restore after upgrading	Enable this option to restore the settings to the default one after upgrading the device.	
Upload	Click this button to import the configuration file.	
Backup	Click this button to export the configuration file.	

3.3 Users

You can add, edit and delete the Operator or Viewer account while you are only allowed to edit the password of the Admin. The Add User page is as below:

User Level Operator User Name Password Confirm Password User Privilege All ✓ Live Video ✓ Playback ✓ Local Settings ↓Video Settings Image Settings ↓Audio Settings Image Settings ✓ RTSP Access Date & Time Event Settings Storage Settings Storage Format Security Settings SIP Settings	1 1/10/1989 B	//c
User Name Password Confirm Password User Privilege All Live Video Local Settings Image Settings Network Settings Network Settings Storage Settings Storage Format Security Settings Storage Setting Storage Settin	Admin Password	
Password Confirm Password User Privilege All Live Video Local Settings Image Settings Audio Settings Date & Time Storage Settings Storage Settings Storage Format Security Settings SIP Settings	User Level	Operator 🔹
Confirm Password User Privilege All Live Video Local Settings Image Settings Network Settings Date & Time Storage Settings Storage Format Security Settings SIP Settings SIP Settings SIP Settings	User Name	
User Privilege All Live Video Playback Local Settings Video Settings Image Settings Audio Settings Network Settings RTSP Access Date & Time Event Settings Storage Settings Storage Format Security Settings SIP Settings	Password	
 Live Video Playback Local Settings Video Settings Image Settings Audio Settings Network Settings RTSP Access Date & Time Event Settings Storage Settings Storage Format Security Settings SIP Settings 	Confirm Password	
Image Settings Audio Settings Network Settings RTSP Access Date & Time Event Settings Storage Settings Storage Format Security Settings SIP Settings	 Live Video 	
Network Settings RTSP Access Date & Time Event Settings Storage Settings Storage Format Security Settings SIP Settings	Local Settings	Video Settings
Date & Time Event Settings Storage Settings Storage Format Security Settings SIP Settings	Image Settings	Audio Settings
Storage Settings Storage Format	Network Setting	gs RTSP Access
Security Settings SIP Settings	Date & Time	Event Settings
	Storage Setting	s Storage Format
	Security Setting	s SIP Settings
✓ Logs ✓ System	✓ Loas	System
Loos Sustem	Security Setting	s SIP Settings

Figure 3-3-1 User

4. View

4.1 Live View

There are icons of PTZ, Image Configuration, View Settings, Carousel on Live View interface. Live View interface is shown as Figure 4-1-1:

Safety 1			*********************
V Hersell V Hers	🗿 🛛 1 🛛 🖻 🛊 🛊 📄 💥 🕬	📀 Milesight	Milesight
	📀 Milesight	🔷 Milesight	Milesight
	Milesight	🔷 Milesight	\land Milesight

Figure 4-1-1 Live View

After adding the devices, you can drag or double click device name to view windows to display their Live View. 1/4/8(1+7)(4+4)/9/16/36/64 view windows can be set to meet your needs. Also the custom layout function you can redesign all the layout.

The icons on toolbar are as below:

Figure 4-1-2 Toolbar

The description of the icons can be referred to the table below:

Table 4-1-1 Toolbar		
ltem	Function Introduction	
	Play all the channels with Secondary stream	
×	Stop all the playing channels	
h	Cursor Mode	

Ð,	Click the button will enable digital zoom the Live View
오 :-	PTZ Mode
0	Fisheye Mode
<u></u>	Image Settings of the playing channels
*	Save View, save the current view to replace the old view
*	New View, create a new view
₽.	Carousel
55	Full Screen
Ţ	Multi Screen , up to four screens with different function: Alarm Screen , Live View Screen and Full Screen. Support to identify monitors of corresponding screens by clicking the Identify button.
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1/4/9 Windows Button
-	Click the button to get more options of display windows
<u>.</u>	Click the button to draw a custom layout
←,⇒	[Pre Page]/[Next Page] button

4.1.1 Live View interface

S Device

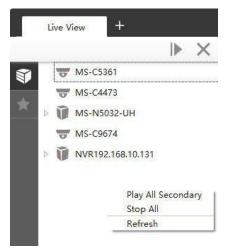
Device column in the Live View shows what kind of devices are connected to the CMS:

		l × ×
Ð	10 96-010	Play
110	T MS-C447	Stop
28	MS-N50	Rename
=	G 1651150	Disable
	T MS-C961	Device Config
	NVR192	Sync Name
	and the second second	Sync All Names
		Flay All Secondary
		Stop All

Figure 4-1-3 Live View device

Item	Function Introduction
Play	Play the Live View of the chosen device
Stop	Stop the Live View of the chosen device
Rename	Reset the name of the camera on the list
Disable	Log out of the device
Device Config	Configure the camera
Sync Name	Synchronize device name with the device
Sync All Name	Synchronize all name with the device
Play All Secondary	Play all the Live View
Stop All	Stop all the Live View

Right-click on the blank space of the device list:



ltem	Function Introduction
Play All Secondary	Play all the Live View
Stop All	Stop all the Live View
Refresh	Refresh the status of the device

There are steps to display device under the Device mode:

Step1: Make sure the device is available;

Step2: Select one window to display;

Step3: Right click a camera and choose [Play] to display the camera. When you choose a NVR, there is a **[Play All]** to display all cameras linked with the NVR. You can also double click the device or drag it into the selected window.

Table 4-1-2 Icon meanings of the device

Item	Function Introduction	
₩,Ŭ	Camera/NVR, which is connected	
₩,₩	Camera/NVR, which is not connected	
\$ 7 /\$	Camera/NVR, which logs out	
⊵/⊿	List Button, click the button to list/hide all cameras linked with the NVR	
ş	Triggered Motion Detection Status	

🖈 View

Right-click on View:



Item	Function Introduction	
Play View	Play the View	
Delete View	Delete the View	
Rename View	Rename the View	
Save	Save the current view to replace the old one	
Save as	Save the current view into a new View	

View helps you watch and manage the Live View more efficiently. By set Views, you can save time to manage the Live View:

Step1: Click the New View button 🚿 to create a new View;

Step2: Display the cameras according to Device Part;

Step3: Click the Save View button 📩 to save the Live View. You can right-click the View and choose the [Play View].

Note

• Double clicking a NVR will lead to display all the cameras linked with the NVR;

• Once a window is selected, it's border color will turn into white.

Custom Layout

Layout Management	もで	Basic Layout 8x8
+ Add 🕕 Delete		

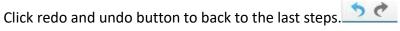
Click on the button and click config to add a custom layout, the page is as below:

Figure 4-1-4 Add a custom layout

Click + Add to create a new layout, it will display a 8x8 layout by default, drag and drop your mouse to combine the grids into one single box, click OK when finished.

Septid Management	50			-	_	BARLEN.	test (but
+ Ant E Debre							
	87					10	
	1. j		n		14	ıs	-16
							-
		26		1	•		6
	19	n					
	1.8	74	25	26	2	28	-
		10	31	12		34	15

Figure 4-1-5 Create a new custom layout



You can double click the name on the left list to rename the layout.

) ¢	Layout Management			
		Delete	+ Add	
			m Layout1	Sustor
			in cayouci	13101

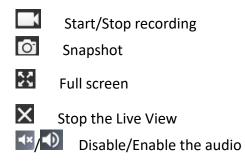
Figure 4-1-6 Rename a custom layout

After your modify, click Apply or OK to save the custom layout.

Back to Live View Page, the new layout will appear in the custom layout button.

4.1.2 Settings of Display the Live View

The toolbar of the Live View window:



Right-click the Live View window, the interface is as below:

	Stop	
	16:9	
	4:3	
٠	Stretch	
	Keep Aspect Ratio	
	Stream Type	•
	Previous Page	
	Next Page	
	Full Screen	

ltem	Function Introduction	
Stop	Stop playing the Live View	
16:9	Ratio of length to width is 16:9	
4:3	Ratio of length to width is 4:3	
Stretch	Suit the size to the windows	
Keep Aspect Ratio	Keep the size the same as original aspect ratio	
Stream Type	Three stream types are available	

Previous Screen	Turn to the previous screen
Next Screen	Play all the Live View
Full Screen	Display windows in full screen

와 PTZ

Click the PTZ button 2^{2} , there will be a same button in the bottom-left corner of the selected window. Click the button in the window, the PTZ function interface will appear. If the Network Camera is PTZ Camera, the interface is as below:



Figure 4-1-7 PTZ-1

If the Network Camera is remote focus and zoom camera but not PTZ Camera, the interface is as below:

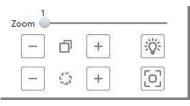


Figure 4-1-8 PTZ-2

The meanings of the items can be referred to the table below:

Item	Function Introduction			
• • • • • •	Navigation key is used to control the direction. The rotation key is used for auto-rotation.			
PTZ Speed	To adjust the speed of pan/tilt movements, from 1 to 10			
- # +	Click -/+ to zoom in and zoom out			
- 5 +	Click to focus near or far of the lens			
- 0 +	Iris adjustment			
-	Click to open/ close the White LED for lighting 30s			
C	Auto Focus			
Preset Patrol Pattern 001 Preset 1 H X - *	save the setting of the current preset			
002 Prejet 2 003 Prejet 3	 delete the preset call the preset 			
	Call the patrol			
Preset Patrol Patron Parlist Ib 00 36 Parlis2 Parlis3	set the path			
	delete the path			
Preset Patrol Pattern	call the pattern			
Pattern1 b # 30 Pattern2 Pattern1	record the pattern			
Patterna	💌 delete the pattern			

Table 4-1-3 PTZ

Note:

Both PTZ series camera or fisheye camera in NVR(V7x.9.0.4 and above) added by IP/Domain and P2P support PTZ configuration.

Fisheye

Click the Fisheye button \bigcirc , there will be a same button in the bottom-left corner of the selected window. Click the button in the window, the Fisheye function interface will appear. It is only for Fisheye Camera. The interface is as below:

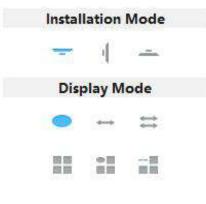


Figure 4-1-9 Fisheye

The meanings of the icons can be referred to the table below:

Item	Function Introduction
-	Click to select ceiling mounting
1	Click to select wall mounting
-	Click to select flat mounting
•	Select live view of original fisheye view
***	Select live view of 360° panoramic view
=	Select live view of two 180° panoramic views
	Select live view of four regional views
:1	Select live view of one original fisheye view and three regional views
	Select live view of one 360° panoramic view and three regional views

Table 4-1-4 Fisheve

🔤 Image

Click the Image button \bowtie , there will be a same button in the bottom-left corner of the selected window. Click the button in the window, the Image function interface will appear. The interface is as below:

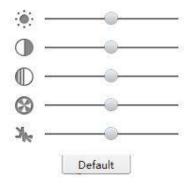


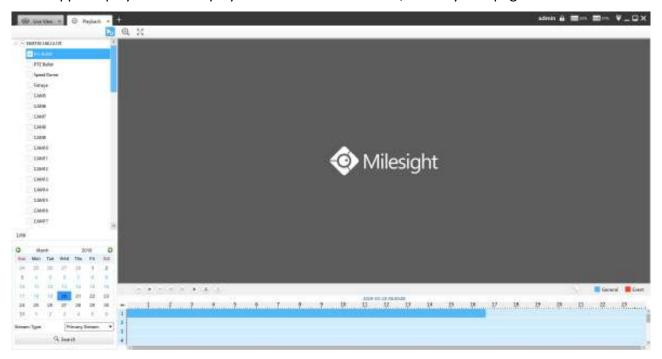
Figure 4-1-10 Image

The meanings of the items can be referred to the table below:

Item	Function Introduction
<u>نې</u>	Brightness
	Contrast
\mathbb{O}	Saturation
8	Sharpness
Зhe	Noise Reduction

Table 4-1-5 Image

4.2 Playback



CMS supports playback. It can play recorded files on devices, the Playback page is as below:

Figure 4-2-1 Playback

You can refer to the steps as below to playback the recorded files:

Step1: Select the desired devices by checking the checkbox of the devices; the NVR has List button to list the added cameras.

Step2: Select Stream Type, including Primary Stream and Secondary Stream.

Step3: Choose the date of which typeface is blue(blue means there are record files, black means no file and red means weekend), the background will turn to blue once the date is selected; then click the Search button to find the recorded files.

The tool bar can display multi-event record. It shows that in this record period what kind of event has happened. The symbolic meaning of each color is shown below:

Blue—Timing

Red --- Event

Orange --- ANR

Step3: Check the time line to select the time to playback; click the **solution** button to get the previous/next page of channels; put the mouse on the time line and scroll up or down to zoom in/out the time.

With this option ^(S) enabled by default, all selected channels will play the synchronous recording. If this option is disabled, then it will automatically jump to the next time point with video recording when the channel has no recording at this time.

Step4: Window border will turn into white once the window has been selected; the first window is the default window.

Step5: Click the Play button to playback; Speed Down, Speed Up and Single Step are available.

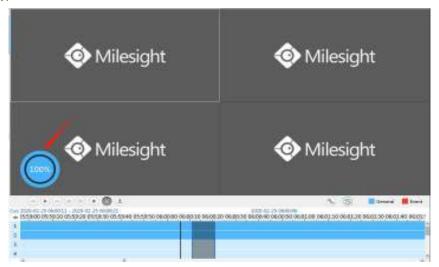
Step6: Select the NVR, choose cameras playback -> left-click the mouse on the selected time line -> click the Cut button -> left-click again in different place then you can cut a part of the playback file -> click Download button to back up the NVR playback files.

When more than one channel have recording, after you click Download button you can choose the channels that you want to download. The page is as below:

2	Channel	Start Time	End Time	Status	Download Status	C	peratio	1
8	192.168.7.113-CAM1	2020-02-25 06:00:11	2020-02-25 06:00:21	Downloading	57%	(1)		
6	192.168.7.113-CAM2	2020-02-25 06:00:11	2020-02-25 06:00:21	Walking for download	0%	(±)	(*)	6

Figure 4-2-2 Playback Download

When you minimize the "Download Status" window, it will display downloading percentage icon as shown below.



Right-click the window during playback, it will pop up the interface as below:

Stop
Stop All
16:9
4.3
Window Size
Snapshot
Full Screen

Item	Function Introduction
Stop	Stop playing
Stop All	Stop all the playback windows
16:9	Ratio of length to width is 16:9
4:3	Ratio of length to width is 4:3
Window Size	Suit the size to the windows
Snapshot	Capture a snapshot
Full Screen	Playback window in full screen

Step7: If the performance of playback is not good enough, we recommend you to enable transcoding. With transcoding function, remote playback will have a better performance no matter what network environment is.

After successfully searching out video, select the channel you want to transcoding and click to expand trancoding panel.

Transcoding:	On	+]
Frame Size:	704*576	•
Bit Rate:	512kbps	•
Frame Rate:	Auto	•
		Apply

Figure 4-2-3 Transcoding

Set Transcoding, Frame Size, Bitrate and Frame Rate according to the network situation. The worse network situation, the lower transcoding parameter.

And click

to make transcoding take effect.

4.3 Smart Analysis

You can get ANPR logs and backup them in this interface.

E HE HEATH		went Lage
LMIP	Dec. 10	
2960		
- T2400	Autocha	
CANIS	Milesight	
EARIE .		
- LANE.		
CARD.		
Ci440		
mante	1 million 1	
2.66/91	P	
CARE		
ELLENE C		
CANEN	a Thread	
1/12	Sine Lisone Pater Ren Type:	
Lines Patro	Danalty/Segian Districts	
Address Party	ROLIN	
iduit Thie		
101300291 imobel	•	
Sed Time		
280000223 33/88/90	•	14. H. H. H. H.

Figure 4-3-1 Smart Analysis

Input corresponded information and click search button <u>Search</u> to search and you will get a

whole ANPR logs list. License plate snapshot will be shown on the logs list while the complete image video and license plate information will be shown on the left of the interface.



Figure 4-3-2 Smart Analysis

You can click 🕑 to play the video.



There are two methods to backup ANPR logs.

1 Backup license plates you want.

Step1: Tick license plates you want to backup and click backup button

Step2: Choose a file path, and select the export file type, video stream type and video file format,

then click export button. When the progress bar reaches 100%, the backup is completed.

File Path	C:/Users/Alison/Desktop
Export File	Plate List Video Picture
Video Stream Type	Primary Stream
Video File Format	MP4
-	0%

Figure 4-3-3 Backup

2 Backup all.

Step1: Click backup all **Bockup All** button;

Step2: Choose a file path, and select the export file type, video stream type and video file format, then click export button.

When the progress bar reaches 100%, the backup is completed.

File Path		Ē
Export File	Plate List Video	Picture
Video Stream Type	Primary Stream	
Video File Format	MP4	2
	0%	

5. Tools

5.1 E-Map

In this part, you can add an electronic map and draw the different cameras to the map. The display of map graphics in the Map window and the size of the map can be controlled, and the map can be moved in the window to show the area you want to view. The E-Map page is as below:



Figure 5-1-1 E-Map

Step1: Click the Add 🛛 🔎 button to add an electronic map

Step2: Drag the different cameras to the map

Step3: Use the zoom in / zoom out buttons or with the mouse wheel to adjust the map size, click the Resize button to restore the size of the map.

Step4: Left-click the hot spot, select the [Play] to play the Live View of the hot spot.

Step5: Left-click the hot spot, select the [Delete] or click the Hot Delete button

to delete the hot spot;

Step6: Click Map Delete button is to delete the electronic map.

Note

- The corresponding camera icon lights up and alarms when the event is triggered.
- Right click on the map in the Map List, it supports adding Sibling map and Child map to the current map.

5.2 Logs

The logs contain the information about the time and IP that has accessed the camera through web. The Logs page is as below:

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gs.Search	Apr.	54	3107	Main Type	Sub Type	Davido Name:	Device Type	Shermal	Message
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	13	2018-11-01-082415	and the local division of the local division	Cawadion Log	add finition	WHITE 165.2.112	ninth		

Figure 5-2-1 Logs

The meanings of the items can be referred to the table below:

Tabl	e 5-2-1	Log
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Parameters	Function Introduction
Main Type	There are three main log types: [All], [System Log], [Operation Log]
Sub Type	On the premise of 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
Q. Smirch	Click the button to search the matched logs
CS Export	Export the log file

You can click the bar to list the log by items such as Log ID, Time, User, Main Type, Sub Type, Device Name, Device Type, etc.

4. Service

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