

Central Management System

User Manual

V2.05

Milesight Technology Co.,Ltd.



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# Content

1.	Intro	oduction1
	1.1	Introduction1
	1.2	Key Features1
	1.3	System Requirements1
2.	Insta	allation1
	2.1	Installation Guide1
	2.2	Login/Logout1
3.	Man	age3
	3.1	Device Management
	3.2	Device Config12
	3.3	Users
4.	View	/55
	4.1	Live View55
	4.2	Playback65
5.	Tool	s67
	5.1	E-Map67
	5.2	Logs
6.	Serv	ice70

# 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 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.
- ♦ 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)
- ♦ Active cameras and NVRs when using them for the first time

## **1.3 System Requirements**

📀 Milesight

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
E:\cms\Milesight CMS\
I accept the terms in the (License Agreement) So 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

📀 Milesight

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	F	7
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:

Live View +			admin 🔒 🖾 15% 🔤 45% 🔻 _ 🗗 🗙
►	×1▶ @ 왜 @ ◙ ★ ∦1₽• % ₽•		■ ■ ■ ■ • <u>■</u> •   ← 1/8 →
<b>₽</b> ★	📀 Milesight	📀 Milesight	📀 Milesight
	📀 Milesight	📀 Milesight	Milesight
	📀 Milesight	📀 Milesight	<li>Milesight</li>

Figure 2-2-2 Live View

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

ltem	Function Introduction
admin	User name
ß	Click the button to lock the software, and it needs to enter the password to unlock
₹	Menu button
	Minimize the interface
đ	Restore Down the interface
	Maximize the interface
×	Close the software
<b>←</b> 1/64 <b>→</b>	Switch to the previous group cameras / next group cameras when click the left arrow / right arrow button.
<b>990</b> :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	$oldsymbol{\overline{\Box}}$ , the interface is as below:
	General: Auto Login, Run CMS when Windows startup, Language, Log
	Retention Period, Video Save Path, Snapshot Save Path, Play Mode,
	Automatically delete video files.
	Display: Provide the Video Card Information and High resolution display
	adaptation, in addition, you also can choose whether to display the Live
	Stream Information in the live view page.
Configuration	Alarm: Enable Alarm Popup (when the motion detection or VCA alarm
	are triggered, the channel window will pop up).
	Advance:
	Dual Stream Connection Mode: this mode will provide more smoothly
	stream switch, but this may increase the network load pressure.
	Sync Multi-channel Alarm Timeline: disable this function, each channel
	will continuously play different time periods of alarm files.
About	Information of the CMS, Milesight webpage link and Check for Update
E Logout	Log out of the current account
🕲 Exit	Close the software





- CMS currently supports 9 languages: English, Simplified Chinese, Traditional Chinese, Korean, German, Czech, Japanese, Thai and Arabic;
- Dual Stream Connection Mode: Enable it to optimize the speed of switching stream but will increase the pressure to the network.

# 2.2.2 Logout

Click  $\square \rightarrow$  [Log out] to exit the current account, or click  $\bowtie$  to exit the CMS.

Milesight CMS	
dmin 👻	
•••••	
ave Password Value Auto Login	
Logout	
opyright © Milesight All rights reserved.	

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].

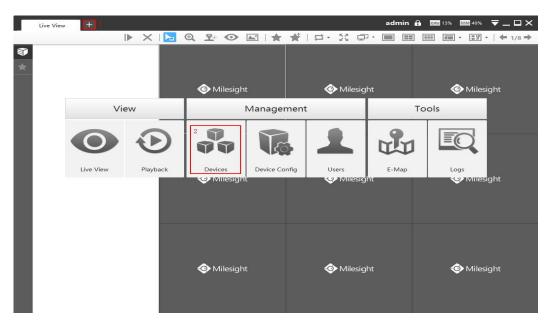


Figure 3-1-1 Adding Device

## • Adding a Single Device

📀 Milesight

Milesight CMS provides to add device one by one. Please refer to the steps as below: **Step1:** Click the + Add Manually button;

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

Step3: Enter device information.

ıally	×	Add Device Man	×	
NVR	•	Device Type:	Camera	•
MS-N1009UPT	0	Name:	MS-C5361-EPB	8
IP/Domain	•	Connection Type:	IP/Domain	•
192 168 7 112		IP Address:	192.168.7.112	٥
		Port:	80	0
		User Name:	admin	۵
admin		Password:	•••••	۵
•••••	0	Transport Protocol:	UDP	•
UDP	•	Stream Mode:	Secondary Stream	•
ОК	Add		ОК	Add
	MS-N1009UPT IP/Domain 192.168.7.112 80 admin ••••••• UDP	MS-N1009UPT   IP/Domain  I92.168.7.112  80  admin  UDP	MS-N1009UPT       Image: Connection Type: Connection Type: IP Address:         19/Domain       IP Address: Port: IP Address:         192.168.7.112       Image: Connection Type: IP Address: Port: Image: Port:	MS-N1009UPT       Image: Mstrict Mstring Mstringet Mstringet Mstrict Mstrict Mstringet Mstrict Mstrict

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.

Table 3-1-1 Adding Device Manually

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. <b>Note:</b> 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"
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

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.

vice Search 1/4' No. 2 13 37 7 15 24 28	IP Address 192.168.7.112 192.268.7.101 192.268.7.79 192.268.7.78 192.268.7.78	Port 80 80 80 80 80	Type NVR NVR NVR	Status Active Active Active	MAC Address 10:03:16:04:30:92 10:03:16:04:27:12 10:03:16:04:30:FE		3 User Name Firmware Version 72.9.0.2-pwd-tools-a9 72.9.0.2-pwd-tools-a9	м	Model S-N5016-UPT S-N1009-UPT	+ Add
9 2 13 37 7 15 24	192.168.7.112 192.168.7.101 192.168.7.79 192.168.7.78 192.168.7.72	80 80 80 80	NVR NVR NVR	Active Active	1CiC3:16:0A:30:92 1CiC3:16:0A:27:12		72.9.0.2-pwd-tools-a9 72.9.0.2-pwd-tools-a9	м	S-N5016-UPT	
2 13 37 7 15 24	192.168.7.101 192.168.7.79 192.168.7.78 192.168.7.72	80 80 80	NVR NVR	Active	1C:C3:16:0A:27:12		72.9.0.2-pwd-tools-a9	м		
2 37 7 15 24	192.168.7.79 192.168.7.78 192.168.7.72	80 80	NVR						S-N1009-UPT	
7 15 24	192.168.7.78 192.168.7.72	80		Active	1C:C3:16:54:30:FE					
15 24	192.168.7.72		NVR				71.9.0.2-r3	M	IS-N8032-UH	
24				Active	1C:C3:16:0A:2E:32		72.9.0.2-r3	м	S+N1009+UPT	
		Milesight 0	смя				72.9.0.2-pwd-tools-a9	м	S-N1009-UPT	
28	192.168.5.204		Ib		State		71.9.0.1	M	S-N7032-UPH	
	192.168.5.200	192.168.7.101		led to be added! Please check your U			71.9.0.2-r3	M	IS-N8032-UH	
16	192.168.4.250						72.9.0.2-r3	м	S-N5008-UPT	
14	192.168.4.238						72.9.0.2-r3	м	S-N5008-UPT	
27	192.168.4.232						72.9.0.3-a2	м	S-N5016-UPT	
	******						*****			
Activate M	odify Network			10100						
vices Added 3				100%	5				6 🔿 Refresh	Dele
No.	IP Address	Port			٦ د ١	ок	Edit	Delete	Enable/Disable	
1	192.168.14.101	8101	NVR192.168.14.101	NVR	1C:C3:16:0A:1C:A4	Connected	2	â	Ð	
2	192.168.7.111	80 C	amera192.168.7.111	Camera	1C:C3:16:24:09:D2	Connected	1		Ð	
3	192.168.7.112	80	NVR192.168.7.112	NVR	1C:C3:16:0A:30:92	Connected	1	<b>m</b>	Ð	

Figure 3-1-3 Adding Group Device

# Note Clicking Refresh button to refresh the status of the added devices; Clicking Roter button 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 password when using it for first time.

Input the password and click 'OK'.

Device Activ	ation	×
User Name:	admin	
Password:		]
Confirm:		
		OK

Figure 3-1-4 Device Activation

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.

IP	MAC	State
2.168.7.112	1C:C3:16:0A: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 Activate , it will display 'The select

, 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 <u>u</u> button followed by the selected device;

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

	Camera 🕶	R Search + Add Manual	lly					User N	ame admin	Password
No.		IP Address	Port	Туре	Status	MAC Address		Firmware Version		Model
				* m	essage Sure to delete this device	× .				
Activate Mo	dify Network				2 ок	Cancel				Ö Refresh
No.		IP Address	Port	Device Name	Type	MAC Address	Status	Edit	Delete	Enable/Disable
1		192.168.14.101	8101	NVR192.168.14.101	NVR	1CiC3:16:0A:1C:A4	Connected	1	1	Ð
2		192.168.7.111	80	Camera192.168.7.111	Camera	1C:C3:16:24:09:D2	Connected	L		Ð
3		192.168.7.112	80	NVR192.168.7.112	NVR	1C:C3:16404:30:92	Connected	L	۵.	Đ

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 Solution 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.



vice Search	Camera	anually					User Na	ame admin P	assword +
No.	IP Address	Port	Туре	Status	MAC Address	F	irmware Version		Model
				lessage ) Sure to delete these devic	× es?				
Activate Modify P	Network			3 ок	Cancel				2 گ Refresh ش D
No.	IP Address	Port	Device Name	Туре	MAC Address	Status	Edit	Delete	Enable/Disable
1	192.168.14.101	8101	NVR192.168.14.101	NVR	1C:C3:16:0A:1C:A4	Connected	1		Ð
2	192.168.7.111	80	Camera192.168.7.111	Camera	1C:C3:16:24:09:D2	Connected	1		Ð
3	192.168.7,112	80	NVR192168.7.112	NVR	10:03:16:04:30:92	Connected	2		Ð

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.

Activ Devices

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

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



Live View +		admin 🔒 🖾 19% 🖾 48% 🔻 _ 🗗 🗙
▶ X   <mark>▷</mark> Q 와 ⊙ ⊠   ★ ∦   타 정 만·		■ ■ ■ • <u>• </u> + 1/8 →
Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: Solution of the system     Image: Solution of the system       Image: S	📀 Milesight	Milesight
📀 Milesight	📀 Milesight	📀 Milesight
📀 Milesight	📀 Milesight	📀 Milesight

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

# Note

You can click the is 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	8
Netmask:	255.255.240.0	8
Gateway:	192.168.7.1	8
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 🧹 . All parameters can be edited except the Device Type and

IP address. See as below:

Device Modify		×	Device Modify		
Device Type:	Camera	*	Device Type:	NVR	Ŧ
Name: C	Camera192.168.199.60		Device Name:	NVR192.168.8.163	
IP Address: 1	192.168.199.60		IP Address:	192.168.8.163	
Port: 8	30		Port:	80	
User Name: a	admin				
Password:			User Name	admin	
Transport Protocol: 🛛	UDP	•	Password	•••••	
Stream Mode:	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

📀 Milesight

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:

Live View ×     O     O     Devices ×	🚯 Device Config	× +							ac	Imin 🔒 💷 7%	<b>200</b> 54% <b>7</b>	- @ ×
Image: State	Channels	Channels										
	Event	Alarm Input	- 📩 - Alarm Output	Exceptions								
	Stroage	Record Schedule	Record Settings	Disk Management	t							
	System	General	Network	Hoiday	Users	Status	Maintenance					

Figure 3-2-1 NVR Page

## 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.

Channel Edit Delete Status IP Address Protocol Model	4	Search	+ Add	Manually		User Name	e:[admin	Password:		+ Add
2       192.168.40.117       80       Milesight IPC       MS-C4473-PB         3       192.168.9.171       80       Network Camera       MS-C4463-PB         4       192.168.40.110       80       Network Camera       MS-C2963-FIPB         5       192.168.40.112       80       Network Camera       MS-C2963-FIPB         1       192.168.40.112       80       Network Camera       MS-C2973-PB         1       1/9       V       V       MS-C2973-PB       V         1       1/9       V       V       MS-C2973-PB       V         1       1/9       V       V       MS-C2973-PB       V		No.		IP		Port	Device Name		Model	
3       192.168.9.171       80       Network Camera       MS-C4463-PB         4       192.168.40.110       80       Network Camera       MS-C2963-FIPB         5       192.168.40.112       80       Network Camera       MS-C2963-FIPB         annels List       1/9       IP Address       Protocol       Model		1	19	2.168 <mark>.10</mark> .1	.77	80	Network Camer	а	MS-C3862-FPNB	
4     192.168.40.110     80     Network Camera     MS-C2963-FIPB       5     192.168.40.112     80     Network Camera     MS-C2973-PB       annels List     1/9     The annel of the status     IP Address     Protocol     Model		2	19	2.168.40.1	.17	80	Milesight IPC		MS-C4473-PB	
5     192.168.40.112     80     Network Camera     MS-C2973-PR       aannels List     1/9     Transmission     Transmission     Transmission       Channel     Edit     Delete     Status     IP Address     Protocol     Model		3	1	92.168.9.1	71	80	Network Camer	а	MS-C4463-PB	
annels List     1/9     Image: Channel     Edit     Delete     Status     IP Address     Protocol     Model	4		19	2.168.40.1	10	80	Network Camer	a	MS-C2963-FIPB	
Channel Edit Delete Status IP Address Protocol Model	'n	5	19	2.168.40.1	12	80	Network Camer	a	MS-C2973-PB	*
	an	nels <mark>Li</mark> st	1/9						<b>O</b> Refresh	Delete
🗹 1 🗹 🔟 Connected 192.168.8.106 ONVIF MS-C3376	~	Channel	Edit	Delete	S	Status	IP Address	Protocol	Model	
	~	1	2	Î	Co	nnected	192.168.8.106	ONVIF	MS-C33	76

Figure 3-2-2 Channels Management

#### [Adding Channel]

📀 Milesight

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  $\swarrow$ 

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
Time Setting:	Sync Time With NVR

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] [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.

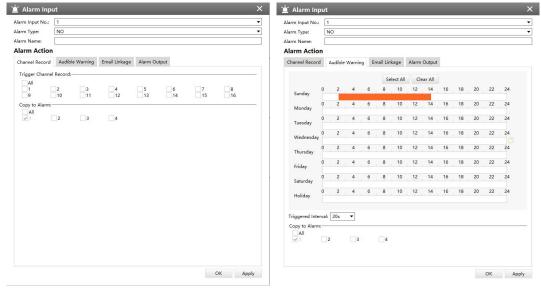


Figure 3-2-5 Channel Record

Figure 3-2-6 Audible Warring



🖞 Alarm Inpu	ut														X	道 Alarm Inp	ut							×
Alarm Input No.:	_														•	Alarm Input No.: Alarm Type:	1 NO							•
Alarm Type: Alarm Name:	NO	ر ا													-	Alarm Name:								=
Alarm Name:																Alarm Action								
Channel Record	A	udible	Warni	ng	Ema	ail Link	kage	Alarm	Output							Channel Record	Audi	ble Warning	Email Lin	kage	Alarm Output			
						6.	lect All	c	ear All	ľ						Trigger Alarm	Output: -							
	)	2	4	e	6	8	10		ear All 14	16	18	20	22	24		All 1								
Sunday Monday	)	2	4	(	6	8	10	12	14	16	18	20	22	24		Copy to Alarm:						 		
Tuesday	)	2	4	(	6	8	10	12	14	16	18	20	22	24		1	2	3	4					
Wednesday		2	4	. (	6	8	10	12	14	16	18	20	22	24										
C Thursday		2	4	(	6	8	10	12	14	16	18	20	22	24										
Friday		2	4	. (	6	8	10	12	14	16	18	20	22	24										
Saturday		2	4		6	8	10	12	14	16	18	20	22	24										
Holiday		2	4	. (	6	8	10	12	14	16	18	20	22	24										
Triggered Interv	al:	20s	•																					
Copy to Alarm:-	-														-									
V1	2		3			4																		
													ОК	A								OK	A	Apply

Figure 3-2-7 Email Linkage

Figure 3-2-8 Alarm Output

# ៉ Alarm Output

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

arm Output	No.:	1												٠
arm Type:		NO												•
arm Name:														
iration Time		5s												٠
					S	elect All	Cle	ar All						
Sunday	0	2	4	6	8	10	12	14	16	18	20	22	24	
Monday	0	2	4	6	8	10	12	14	16	18	20	22	24	
Tuesday	0	2	4	6	8	10	12	14	16	18	20	22	24	
Wednesday	0	2	4	6	8	10	12	14	16	18	20	22	24	
Thursday	0	2	4	6	8	10	12	14	16	18	20	22	24	
Friday	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	22	24	
Holiday	0	2	4	6	8	10	12	14	16	18	20	22	24	
uration Time ✓All ✓1	e											ок	Apply	



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



## **A** Exception

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

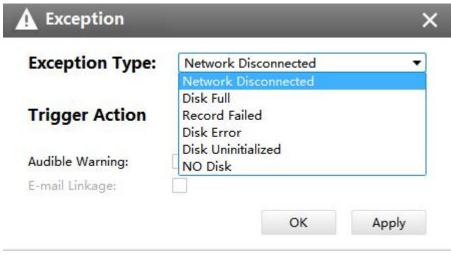


Figure 3-2-10 Exception

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

ltem	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:

📀 Milesight

Record Schedu	le	Bate	cn Set	tings										
Channel: 1			•											
							Select	All	Cle	ear <mark>A</mark> ll				
Sunday	0	2	4	6	8	10	12	14	16	18	20	22	24	Continuous
Monday	0	2	4	6	8	10	12	14	16	18	20	22	24	Event
Tuesday	0	2	4	6	8	10	12	14	16	18	20	22	24	- Motion Detection
Wednesday	0	2	4	6	8	10	12	14	16	18	20	22	24	Alarm
Thursday	0	2	4	6	8	10	12	14	16	18	20	22	24	a smart event
Friday	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	22	24	
Holiday	0	2	4	6	8	10	12	14	16	18	20	22	24	
Copy to Came All 9		2		3			4		5		6	4		7 8 15 16

Figure 3-2-11 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
CH1		
CH2		
СНЗ		
CH4		
CH5		
CH6		
CH7		
CH8		
CH9		
CH10		
CH11		
CH12		
CH13		
CH14		
CH15		
CH16		

Figure 3-2-12 Batch Settings

## Record Settings

#### **General Settings**

• Milesight

Make general configuration for selected channels. Click **COPY** 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.

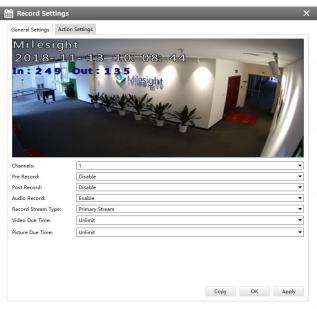


Figure 3-2-13 General Settings

## **Advanced Settings**

Enable or disable Recycle Mode for all storage device.

Record Set	tings			>
General Settings	Advanced Settings			
Recycle Mode		Enable	•	
		Disable		
		Enable		

Figure 3-2-14 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.

Port	Vendor	Status	Total(GB)	Free(GB)	Туре	Property	Delete
1	WDC WD5000LUCT-63C26Y0	Offline	0	0	LOCAL	R/W	Ē
tal Capacity(GB)	0						

Figure 3-2-15 Disk Management

#### 3.2.1.4 System

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

Live View × C Device Con	nfig × +						admin 🔒	GRU 5% RAM 52%	₹_¤×
Camera192.168.14.102	Channels	Channels							
	Event	Alarm Input	- initial Alarm Output	Exceptions					,
	Stroage	Record Schedule	Co Record Settings	Disk Management					
	System	General	Network	Holiday	Users	Status	Maintenanc	e	

Figure 3-2-16 Disk Management



## 🦑 General

🖧 General		×
Device Name:	NVR	
Device ID:	255	
Server Time:	2018-01-30 15:40:37	
Time Zone:	8 China (Beijing)	•
Daylight Saving Time:	Auto	•
Server Address:	pool.ntp.org	
Manual Sync Time Set Time:	2018-01-30 15:40:05 🌲 Sync with computer time	

Figure 3-2-17 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.

Basic	IP Address:	192.168.7.112	DHCP
DDNS	Subnet Mask:	255.255.240.0	
-mail	Default Gateway:	192.168.7.1	
2p	Preferred DNS Server:	192.168.7.1	_
More	Alternative DNS Server:		
viore	MAC Address:	1C:C3:16:0A:30:92	
	MTU(Byte):	1500	
	Internal NIC IPv4 Address	192.168.20.1	

Figure 3-2-18 Basic



## [DDNS]

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

📜 Networl	¢	×
Basic	Enable DDNS	
DDNS	DDNS Server:	ddns.milesight.com 🔹
E-mail	External RTSP Port:	80
P2P	External HTTP Port:	554
More	DDNS URL: http://do	Ins.milesight.com/0A1CA4
		OK Apply

Figure 3-2-19 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)

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

📜 Networ	k		×
Basic DDNS E-mail	User Name: Password: SMTP Server:		
P2P More	Port: Encryption Host Name: Sender Name: Sender Address: Select Receiver: Receiver Name: Receiver Address:	TLS SSL http:// Enable	
		OK Test	Apply

Figure 3-2-20 E-mail

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

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
Receiver Address	E-mail Address for the receivers

#### Table 3-2-2 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 3-2-21 P2P

## [More]

## **SSH Port:**

Check the SSH Enable checkbox to enable the feature and modify SSH 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.

🖵 Networ	k		×
Basic	SSH Port:	22	Enable SSH
DDNS	HTTP Port:	8101	
E-mail	HTTPS Port:	4433	
P2P	RTSP Port:	1554	
More	Push Message:	Enable	
			OK Apply

Figure 3-2-22 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.

# Holiday

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

ID	Holiday Name	Status	Start Date	End Date	Edit	
1	Holiday				×	
2	Holiday	Holiday Edition				
3	Holiday	Holiday Enable Style:	Enable Month			
4	Holiday	Start Date:	January	▼] [30		
5	Holiday	End Date:	February	•] [1	•	
6	Holiday	* Holiday sched	ule takes preced	ence over other sched	1	
7	Holiday			Apply	Cancel	
8	Holiday	Disable	1-1	1-1	2	
9	Holiday	Disable	1-1	1-1	1	

Figure 3-2-23 Holiday



# 上 Users

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

👤 Users				×
Security Quest	ion			
Edit				
Account Mana	gement			
Add				
ID	User Name	User Level	Edit	Delete
1	admin	Admin	1	

Figure 3-2-24 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:		
Security Question 2:	What's your father's name?	
Security Answer 2:		
Security Question 3:	What's your father's name?	
Security Answer 3:		
		OK

Figure 3-2-25 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 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 y	ou go on your first trip?
Customized	Question

Figure 3-2-26 Security Question

## [Account Management]

📀 Milesight

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

Use <mark>r Type Admin Old Password </mark>	▼ User Name admin
Password	Confirm Password
Basic Permission Camera Co	onfiguration
General Settings	General Settings
Network Settings	✓ Network Settings
Disk Management	✓ Disk Management
Holiday Configuration	Holiday Configuration
System Upgrade	System Upgrade
Save/Load Configuration	Save/Load Configuration
Shutdown/Reboot	Reboot
Emergency Record	Remote Record
Snapshot	✓ Remote Snapshot
Auto Maintenance	Remote Auto Maintenance
Live View Settings	

Figure 3-2-27 Edit User



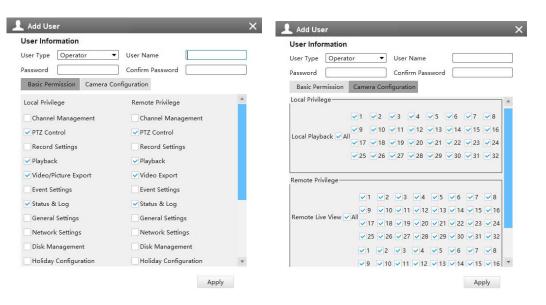
The meanings of the items on the Edit User page can be referred to the table below: Table 3-2-3 Edit User:

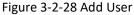
Item	Function Introduction
User Type	You can set three types of user, Admin\Operator\User
User Name	A name made by yourself to identify users
Old Password	You should input the old password before editing the user type
Password	Set the password for different user type
Confirm password	Re-input the same 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

#### Click the Add button

Add

, the setting window will pop up as below:







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.

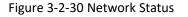
vice Information	Device ID:	255				1
twork Status	Product Model:	MS-N5032-UH				ĩ
mera Status	Camera Number:	32				ī .
nt Status	HDD Number:	1				j
Status	Alarm Input Number:	0				
	Alarm Output Number:	0				]
	MAC Address:	1C:C3:16:0A:1D:27				]
	Firmware Version:	71.8.0.2-a2				
	Hardware Version:	V1.0				
	Uptime:	15:54:23 up 7:23				

Figure 3-2-29 Device Information

#### [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.

vice Information				
work Status	Receive Bandwid			
era Status t Status	Frees	180Mbps	Used:	139Mbps
Status	LAN1			
	Connection:	Connection established	Mode:	1000Mbps FULL
	DHCP:	Disable	MTU(B):	1500
	IP Address:	192.168.8.148	Subnet Mask:	255.255.252.0
	Gateway:	192.168.8.1	MAC Address:	10:03:16:0A:1D:D2
	Preferred DNS Server:	8888	Alternate DNS Server:	
	Receive Rate:	4.94Mbps	Send Rate:	255.90Kbps
	LAN2			
	Connection:	Connection established	Mode:	1000Mbps FULL
	DHCP:	Disable	MTU(Byte):	1500
	IP Address:	192.168.199.200	Subnet Mask:	255.255.255.0
	Gateway:	192.168.199.1	MAC Address:	10:03:16:04:10:03
	Preferred DNS Server:		Alternate DNS Server:	
	Receive Rate:	144.88Mbps	Send Rate:	47.38Kbps



## [Camera Status]

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

evice Information								
Jetwork Status	Channel	Name	IP Address	Record	Frame Rate	Bitrate	Resolution	Status
amera Status vent Status	1	cam1	192.168.8.146	OFF	Ofps	0Kbps	0x0	Disconnected
isk Status	2	CAM2	192.168.10.34	ON	24fps	3997Kbps	1920x1080	Connected
	3	CAM3	192.168.199.38	ON	25fps	3880Kbps	1920x1080	Connected
	4	CAM4	192.168.199.57	ON	25fps	4144Kbps	1920x1080	Connected
	5	CAMS	192.168.199.59	ON	25fps	3952Kbps	1920×1080	Connected
	6	CAM6	192.168.199.43	ON	24fps	5039Kbps	1920×1080	Connected
	7	CAM7	192.168.199.61	ON	25fps	3895Kbps	1920×1080	Connected
	8	CAM8	192.168.199.63	ON	25fps	4362Kbps	1920x1080	Connected
	9	CAM9	192.168.199.64	ON	25fps	4592Kbps	1920x1080	Connected
	10	CAM10	192.168.199.42	ON	26fps	4589Kbps	1920x1080	Connected
	11	CAM11	192.168.199.65	ON	25fps	3842Kbps	1920×1080	Connected
	12	CAM12	192.168.199.40	ON	25fps	4320Kbps	1920×1080	Connected
	13	CAM13	192.168.199.66	ON	25fps	4025Kbps	1920×1080	Connected
	14	CAM14	192.168.199.67	ON	25fps	4343Kbps	1920x1080	Connected

Figure 3-2-31 Camera Status

## [Event Status]

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

evice Information etwork Status	Cam	era Event	Alarm Inpu	t List	Alarm Output List		
amera Status vent Status	Camera Ev	ent					
Disk Status	Channel	Name	IP Address	Video Loss	Motion	Alarm I/O	
	1	cam1	192.168.8.146			A	
	2	CAM2	192.168.10.34				
	з	CAM3	192.168.199.38			A	
	4	CAM4	192.168.199.57			A	
	5	CAM5	192.168.199.59				
	6	CAM6	192.168.199.43			A	
	7	CAM7	192.168.199.61				
	8	CAM8	192.168.199.63		<b>A</b> .		
	9	CAM9	192.168.199.64				

#### Figure 3-2-32 Camera Event

Careford Status         Alarm In           Disk Status         No.           Disk Status         No.           A-2-3         A-3-3           A-4-4         A-4-5           A-4-6         A-4-6           A-4-7         A-4-6	Alarm Name	Alarm Type NO NO NO NO	State
isk Status No.	Alarm Name	NO NO NO	л л л
A <-2 A <-3 A <-4 A <-5 A <-6		NO NO NO	A A
A <-3 A <-4 A <-5 A <-6		NO	Α
A<-4 A<-5		NO	
A <-5 A≺-6			1
A<-6			
		NO	A
A<-7		NO	A
		NO	A
A<-8		NO	A
A<-9		NO	A
A<-10		NO	*
A<-11		NO	A

#### Figure 3-2-33 Alarm Input List

evice Information etwork Status amera Status	Camera Seret Alarm Input list Alarm Output list Alarm Output list								
ent Status k Status	No.	Alarm Name	Alarm Type	Duration Time	State				
	A->1		NO	55					
	A->2		NÖ	55	8				
	A->3		NO	58	Α				
	A->4		NO	55	8				

Figure 3-2-34 Alarm Output List

ice Information	Camera E	vent	Alarm Input List	Alarm Output Lis	t Smart	Event People Count	ing					
work Status iera Status	Smart Event											
nt Status	Channel	Name	IP Address	Region Entrance	Region Exiting	Advanced Motion Detection	Tamper Detection	Line Crossing	Loitering	Human Detection		
Status		CAM1	192.168.14.102							π		
	2	CAM2		A						A		
	3	CAM3										
	4	CAM4										
	5	CAM5										
	6	CAM6								A		
	7	CAM7										
	8	CAM8								A		
	9	CAM9								А.		
	10	CAM10										
	11	CAM11										
	12	CAM12										
	13	CAM13								K		

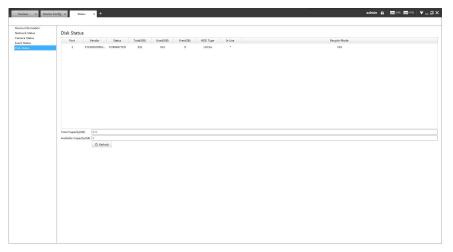
#### Figure 3-2-35 Smart Event

evice Information etwork Status	Camera Event	Alarm Input List Alarm	Output List Smart Event	People Counting						
	People Counting									
amera Status Event Status	Channel	Name	IP Address	In	Out					
Status		CAM1	192.168.14.102	1	2					
	2	CAM2								
	3	CAM3								
	4	CAM4								
	5	CAM5								
	6	CAM6								
	7	CAM7								
	8	CAM8								
	9	CAM9								
	10	CAM10								
	11	CAM11								

Figure 3-2-36 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.



#### Figure 3-2-37 Disk Status



## ✗ Maintenance

The Maintenance page is as below:

System Manage	ment		
Reboot the device:	Reboot		
Reset:	Keep the IP Configuration		
	Keep the User Information		
	Reset		
Firmware File:		۲Ì	Upgrade
	Restore after upgrading		

Figure 3-2-38 System

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

Parameters	Function Introduction
Reboot	Click the button to reboot the device
Reset	Click the button to reset the settings to the default one.
<ul> <li>✓ Keep the IP Configuration</li> <li>✓ Keep the User Information</li> </ul>	<ul> <li>Keep the IP Configuration: keep the IP configuration when resetting the device.</li> <li>Keep the User Information: keep the User configuration when resetting the device.</li> <li>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.</li> </ul>
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.

Table 3-2-4 System



### 3.2.1.5 Camera

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

	× 🕠 Device Config	× +					1	dmin 🔒	<u>CRU</u> 2%
d 👔 NVR192.168.7.112	Video	Parameters	Image						
	Event	Motion Detection	Video Loss	<b>VA</b> Smart Event					

Figure 3-2-39 Camera inside NVR

Parameters

The Parameters page is as below:

Primary Strea		
Channel Name:	Pro Bullet	
Video Codec:	H.264	•
Frame Rate:	25	•
Resolution:	1920*1080	
Bitrate:	4096	
Smart Stream:	On	3. <b>•</b>
Level:	5	
Bitrate Control:	CBR	•
I <mark>-fram</mark> e Interval:	50	
Audio:	🖌 Enable Audio	
Secondary Str	eam	
Secondary Stream	: 🔽 Enable	
Video <mark>Cod</mark> ec:	H.264	
Frame Rate:	25	•
	C	
Resolution:	640*480	•
Resolution: Bitrate:	640*480 512	•
		•
Bitrate:	512	•

Figure 3-2-40 Video of Camera inside NVR

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





#### The Image page is as below:

OSD			OSD		
Video Stream:	All Streams	•	Enhancement		
Show Video Title:	🗹 Enable		Day/Night Mode:	Auto Mode	
Video Title:	Milesight		Day to Night Value:	36	Re
Text Position:	Top-Left	•	Night to Day Value:	82	Re
Show Timestamp:	🔽 Enable		IR Light Sensor Value:	98 0	
Date Format:	YYYY-MM-DD	•	Power Line Frequency:	50Hz	
Date Position:	Top-Left	•	Corridor Mode:	Off	
			Image Rotation:	Off	
			IR Balance Mode:	On	
Enhancement			White Balance:	Auto White Balance	
			Digital Anti-fog Mode:	Off	
			Digital Image Stabilisation:	Off	
			• •	WDR HLC	
			Wide Dynamic Range:	Off	

Figure 3-2-41 Image of Camera inside NVR

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

Motion Detection

The Motion Detection page is as below:

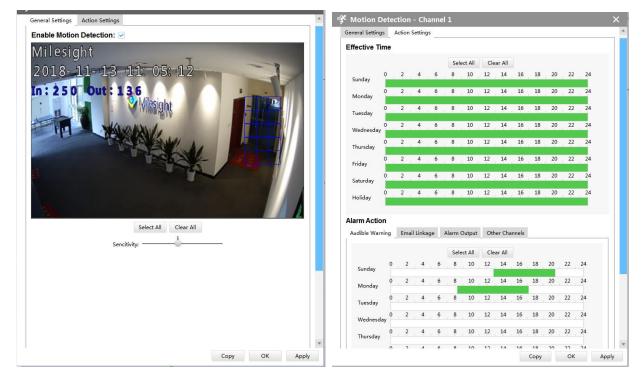


Figure 3-2-42 Motion Detection of Camera inside NVR



#### [General Settings]

Step1: 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.

Step2: Here are four options for alarm action [Audible Warring] [Email Linkage] [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.

#### [Advanced Settings]

Set Effective Time of advance motion detection in the Advanced Settings page.

### Uideo Loss

The Video Loss page is as below:

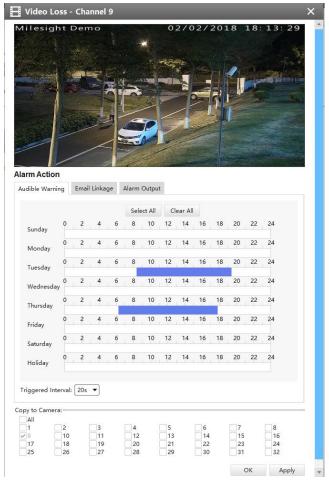


Figure 3-2-43 Video Loss



Here are three options for alarm action [Audible Warring] [Email Linkage] [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.

VA Smart Event

The Smart Event page is as below:

VA Smart Event		×
Region Entrance	ieneral Settings Action Settings	
Region Exiting	Region Entrance	
Advanced Motion Detection	Set Region	-
Tamper Detection	Milesight 2018-11-01 11:28:38	
Loitering		
Human Detection		
People Counting		
Settings	Select All Clear All	
	ОК	Apply

Figure 3-2-44 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] 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.

egion Entrance	1		_										
	General Settings	Action S	ettings										
egion Exiting dvanced Motion Detection	Effective Time	e											
amper Detection					Sele	ct All	Cle	ar All					
e Crossing	0 Sunday	2	4	6	8	10	12	14	16	18	20	22	24
itering	Monday	2	4	6	8	10	12	14	16	18	20	22	24
man Detection	0 Tuesday	2	4	6	8	10	12	14	16	18	20	22	24
ople Counting	0	2	4	6	8	10	12	14	16	18	20	22	24
ttings	Wednesday 0	2	4	6	8	10	12	14	16	18	20	22	24
	Thursday			de de	d - 6	10	12	14	16	18	20	22	24
	0 Friday	2	4	6	8		ALC: A	1.			h Arr	he da	
	Saturday 0	2	4	6	8	10	12	14	16	18	20	22	24
	Holiday	2	4	6	8	10	12	14	16	18	20	22	24
	Alarm Action	1											
	Audible Warning	g Email	Linkage	Alan	m Outp	out	Other C	hannel	5				
					Sele	ct All	Cle	ar All					
	Sunday	0 2	4	6	8	10	12	14	16	18	20	22	24
		0 2	4	6	8	10	12	14	16	18	20	22	24

Figure 3-2-45 Action Settings

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.

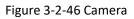
# Notes

• If you haven't activated the VCA function, please contact Milesight sales first.

### 3.2.2 Camera

The Device Configuration for Network Camera is as below:

⑧ Live View × So Devices ×	Device Config	× +						admin 🔒 🖾	9% 🔤 92% 🤻	₹_@×
<ul> <li>WR192168.7.112</li> <li>Camera 102.168.14.102</li> </ul>	Video	Video	Image	Privacy Mask	Audio					
	Event	Motion Detection	(( )) Audio Alarm	External Input	Other Alarm	<b>V</b> A Smart Event				
	Record	Record								
	System	Date&Time	Network	Users	<b>X</b> System					



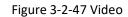
.....

### 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)
Enable:			
Secondary Stream			
Video Codec:	H.265	•	
Frame Size:	704*576	•	
Maximum Frame Rate:	25	▼ fp	s
Bit Rate:	768	▼ kk	ps
Smart Stream:	On	•	
Level:	5		
Bit Rate Control:	CBR	•	
bit Kate Control:	Base	*	
Profile:			V
	50	1 600	-ma(1 120)



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

	Table 3-2-5 Video
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						
Profile	according to your needs						
	Set the I-frame interval to 1~120, this item is optional only if you						
I-frame Interval	selected the H.264						

# 🔛 Image

The Image page is as below:

SSD       SSD         Video Stream:       Primary Stream         Font Size:       Medium         Show Video Title:       Power Line Frequency:         Video Title:       Network Camera         Text Boaline:       Top-Left         Date Position:       Top-Right         Obte Position:       Top-Right         Obte Position:       Top-Right         Obte Format:       DD/MM//YWY         Copy to other streams:       1         OK       Apply         OK       Apply         OK       Apply         OK       Apply         OK       Apply         OK       Apply	Image Config	uration	🗙 🔛 Imag	ge Configuration	×
Video Stream: Primary Stream   Font Size: Medium   Show Video Title: Video Title:   Video Title: Video Title:   Video Title: Operation   Text Position: Top-Left   Oble Position: Top-Right   Date Position: Top-Right   Display Image Rotation:   Enhancement OK     OK Apply              OK Apply <th>OSD</th> <th></th> <th>OSD</th> <th></th> <th></th>	OSD		OSD		
Font Size: Medium   Show Video Title: ✓   Show Video Title: ✓   Text Position: Top-Left   Date Position: Top-Right   Date Format: DD//MM/YYY   Copy to other streams: 1   2 3     Display   Enhancement     OK   Apply     OK   Apply     OK   Apply     OK   Apply     OK   OSD   Display   Enhancement     OSD   Display   Finhancement     OK   Apply     OK   OK   OK   OK   OK   OK   OK   OK   OSD   Display   Enhancement     OK     OK  OK <b>Other Distribute: Off Oth</b>			Display	1	
Font Size: Medium   Show Video Title: ✓   Show Video Title: ✓   Text Position: Top-Left   Date Position: Top-Right   Date Format: DD//MM/YYY   Copy to other streams: 1   2 3     Display   Enhancement     OK   Apply     OK   Apply     OK   Apply     OK   Apply     OK   OSD   Display   Enhancement     OSD   Display   Finhancement     OK   Apply     OK   OK   OK   OK   OK   OK   OK   OK   OSD   Display   Enhancement     OK     OK  OK <b>Other Distribute: Off Oth</b>	Video Stream:	Primary Stream	<b>_</b>		
Show Video Title:   Video Title:   Network Camera   Text Position:   Top-Left   Display Date:   Date Position:   Dop-Right   Date Format:   DD/MM/YVYV   Corpy to other streams:   1   2   3     Display   Enhancement     OK   Apply     OK     OK   Apply     OK     OK     Apply     OK     Apply     OK     Apply     OK     Apply     OK     Apply     OK     Apply     OK <td></td> <td></td> <td></td> <td></td> <td></td>					
Video Title: Network Camera Text Position: Top-Left Display Date: Date Position: Top-Right Date format: DD/DMM/YYYY Copy to other streams: OK Apply OK Apply Cost Configuration OK Apply					
Text Position: Top-Left   Display Date: ✓   Date Position: Top-Right   DD/MM/WYY ✓   Copy to other streams: 1   2 3     Display   Enhancement     OK   Apply     OK   Apply     OK   Apply     OK     Apply     OK     OK <t< td=""><td></td><td></td><td>Power I</td><td>ine Frequency: 50HZ</td><td>•</td></t<>			Power I	ine Frequency: 50HZ	•
Display Display Enhancement OK Apply Corridor Mode: OK Apply OK Apply	Text Position:		▼ Day/Nig	ght Mode: Customize	
Date Position: Top-Right Date Format: DD/MM/VWW Copy to other streams: 1 2 3 Display Enhancement OK Apply Cox Apply OK			Start tin	ne of Night: 18 🔻	00 •
Date Format: DD/MM/WWY Copy to other streams: 1 2 3 Display Enhancement OK Apply OK Apply OK Apply OK Apply OK Apply OK Apply Image Configuration OSD Display Enhancement IR Balance Mode: Off White Balance Digital Anti-fog Mode: Off Ujgital Anti-fog Mode: Off Ujgital Image Stabilisation: Off Ujgital Image Stabilisation: Off Ujgital Image Stabilisation: Off		Top-Right	▼ End tim	e of Night: 06 ▼	00 🔻
Display Enhancement OK Apply CK Ap	Date Format:		<ul> <li>Corrido</li> </ul>	r Mode: Off	•
Display Enhancement          OK       Apply         Image Configuration       X         OSD       Display         Enhancement       Image Configuration         Insplay       Enhancement         Insplay       Enhancement         Digital Anti-fog Mode:       Off         Digital Anti-fog Mode:       Off         Digital Image Stabilisation:       Off         BLC       WDR	Copy to other stream		Image I	Rotation: Off	•
Display Enhancement IR Balance Mode: Off White Balance: Auto White Balance Digital Anti-fog Mode: Off Digital Image Stabilisation: Off BLC WDR HLC					OK Apply
IR Balance Mode:       Off         White Balance:       Auto White Balance         Digital Anti-fog Mode:       Off         Digital Image Stabilisation:       Off		OSD			
IR Balance Mode: Off ▼ White Balance: Auto White Balance ▼ Digital Anti-fog Mode: Off ▼ Digital Image Stabilisation: Off ▼ ● BLC WDR ● HLC		Display			
White Balance:     Auto White Balance       Digital Anti-fog Mode:     Off       Digital Image Stabilisation:     Off       • BLC     WDR		Enhancement			
White Balance:     Auto White Balance       Digital Anti-fog Mode:     Off       Digital Image Stabilisation:     Off       • BLC     WDR					
White Balance:     Auto White Balance       Digital Anti-fog Mode:     Off       Digital Image Stabilisation:     Off       • BLC     WDR		IR Balance Mode:	Off	<b>_</b>	
Digital Anti-fog Mode: Digital Image Stabilisation: BLC WDR HLC					
Digital Image Stabilisation: Off   BLC WDR HLC					
BLC WDR HLC					
BLC Region:		O PLC	WDR	HIC	
			Centre		

Figure 3-2-48 Image

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

Parameters	Function Introduction
Video Stream	Choose the stream which you want to edit
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	You can customize the video title
Text Position	OSD position on the image
Display Date	Check the checkbox to display date on the image
Date Position	Date display position on the image
Date Format	The format of date
Power Line Frequency	60HZ flicker for NTSC mode and 50HZ flicker for PAL mode
Day/Night Mode	There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc. associated with this mode <b>Night Mode:</b> To switch camera Live View image to Night mode <b>Day Mode:</b> To switch camera Live View image to Day mode <b>Auto Mode:</b> To enable Live View image changing Day or Night mode automatically based on the environment light <b>Customize:</b> To customize the settings of switching Day and Night Mode
Start/End time of night	Choose the start and the end of night time
Corridor Mode	There are three options available, you can select one to meet your need Off: Keep the image in normal direction Clockwise 90°: Clockwise rotate the image by 90° Anticlockwise 90°: Anticlockwise rotate the image by 90°
Image Rotation	There are four options available, you can select one to meet your need Off: Keep the image in normal direction Rotating 180°: Upside down the image Flip Horizontal: Flip the image horizontally Flip vertical: Flip the image vertically
IR Balance Mode	There is an option to turn Off/On the IR LED. IR Balance Mode would avoid the problem of overexposure and darkness, and the IR LED will change according to the actual illumination.
White Balance	To restore white objects, removed color distortion caused by the light of the environment <b>Auto White Balance:</b> This option will automatically enable the White Balance function <b>Manual White Balance:</b> This option is only for H.265 series. Set Red Gain Level and Blue Gain Level manually. <b>Incandescent Lamp:</b> Select this option when light is similar with incandescent lamp <b>Warm Light Lamp:</b> Select this option when light is similar with warm

Table 3-2-6	Image
-------------	-------

	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 This function is only for H.265 series. Better image effect in foggy
Digital Anti-fog Mode	weather
Digital Image Stabilisation	This function is only for H.265 series. Decrease the blur and shakiness of the image
BLC Region	Off 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 Centre: This option will automatically add an inclusive region in the middle of the window and give the necessary light compensation
Wide Dynamic Range	<ul> <li>This function enables capture and display both bright and dark areas in the same frame.</li> <li>Off: Disable WDR function</li> <li>On: Enable the WDR, there are Low/High/Auto three levels</li> <li>Customize: Customize the schedule to enable/disable the WDR function and set the levels with Low/High/Auto</li> </ul>
High Light Compensation	This function is only for H.265 series to adjust the brightness to a normal range when the light is strong 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

# Privacy Mask

Milesight CMS supports privacy mask and maximum support for 4 areas of privacy mask(8 areas for PTZ series). The setting steps are as below:

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

Step2: Choose the mask type;

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

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





Figure 3-2-49 Privacy Mask

### 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.

<ul> <li>Audio</li> </ul>		×
Enable Audio:		
Audio Mode:	Both Mic & Speaker	*
Denoise:		
Encoding:	G711-ULAW	Ŧ
Sample Rate:	8KHz	*
Input Gain:		
Alarm Level:	2	
Auto Gain Control:		
Output Volume:		
	ОК	Apply

Figure 3-2-50 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 3-2-7 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 edit the time to enable the Motion Detection, then apply the settings.



Enable Motion De	etection: 🗸
Set Motion Regio	
	In : 22243 coos : 1948
	Select All Clear All
	Sensitivity:
Alarm Action	Sensariy.
	V AVI V
the second second second second second	
Save into SD Card:	
External Output:	AVI
	Open OGrounded
	Grounded
HTTP Notification:	n ounded
Trigger Interval:	0 (0-900)s
33	
HTTP Notification U	IRL:
HTTP User Name:	
HTTP Password:	
	OK Edit Schedule Apply

Figure 3-2-51 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.

🐏 Audio Alarm	×
Enable Audio Alarm: (Make Sure Audio is enabled first) Alarm Action	
Upload via FTP: AVI  Upload via SMTP: JPG  Save into SD Card: AVI  External Output:	
Normal Status: Open OGrounded Current Status: Grounded HTTP Notification:	
Trigger Interval: 0 (0-900)s	
HTTP User Name:	
HTTP Password: OK Edit Schedule Apply	

Figure 3-2-52 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:      O Low      High	
Current Status: Low	
Alarm Action	
Upload via FTP:	
Upload via SMTP: JPG 🔻	
Save into SD Card:	
External Output:	
Normal Status: Open Ogen Orounded	
Current Status: Grounded	
HTTP Notification:	
Trigger Interval: 0 (0-900)s	
HTTP Notification URL:	
HTTP User Name:	
HTTP Password:	
Edit Schedule OK	

Figure 3-2-53 Alarm I/O

## A Other Alarm

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



Figure 3-2-54 Other Alarm



# Note

- Please finish the relevant settings in the Network part before using the the Alarm function on CMS;
- It will activate the alarm when the current status is different from normal status on Alarm I/O page, you can set the status by yourself.

## VA Smart Event

The Smart Event-General Settings is as below:



Figure 3-2-55 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] 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.

Region Entrance	General Settings	Action Setting							
Region Exiting		Action Setting	15						
Advanced Motion Detection	Effective Time	Perio	od1	Per	od2	Peri	iod3		
Tamper Detection	✓ Sunday	00:00 \$	23:59 \$	00:00 \$	00:00 \$	00:00 \$	00:00 \$	Copy to Other Days	
ine Crossing	Monday	00:00 \$	23:59 \$	00:00 \$	00:00 \$	00:00 \$	00:00 \$	Copy to Other Days	
oitering	Tuesday	00:00 \$	23:59 \$	00:00 \$	00:00 \$	00:00 \$	00:00 \$	Copy to Other Days	
Human Detection	<b>₩</b> ednesday	00:00 \$	23:59 🖨	00:00 \$	00:00 \$	00:00 \$	00:00 \$	Copy to Other Days	
	✓ Thursday	00:00 \$	23:59 🖨	00:00 \$	00:00 \$	00:00 \$	00:00 \$	Copy to Other Days	
People Counting	Friday	00:00 \$	23:59 🖨	00:00 \$	00:00 \$	00:00 \$	00:00 \$	Copy to Other Days	
Settings	Saturday	00:00 \$	23:59 🖨	00:00 \$	00:00 \$	00:00 \$	00:00 \$	Copy to Other Days	
				B	eset				
	Alarm Action								
	Save into SD Card:	AVI .	w.						
	Save into NAS:	AVI .	*						
	Upload via FTP:	AVI	*						
	Upload via SMTP:	JPG '	Ŧ						
	External Output:								
	Normal Status:	Open	Ground	ed					
	Current Status:	Grounded							
	Play Audio:	(Please co	onfigure th	e Audio Act	ion Settings	and Audio	Interval.)		
	Alarm to SIP Phone	e: [] (Please e	nable the S	(P.)					
	HTTP Notification:	~							
		20				9		OK	App

Figure 3-2-56 Action Settings



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.

# Notes

• If you haven't activated the VCA 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		SD NAS		(10-256)M		
Record Frame Type:	All		THIS			•	
Select All	Peri	od1	Peri	od2	Per	iod3	
Sunday	00:00 🌲	23:59 🌲	00:00 🌲	00:00 🌲	00:00 🌲	00:00 🌲	Copy to Other Day
Monday	00:00 🌲	23:59 🌲	00:00 🜲	00:00 🌲	00:00 🜲	00:00 🜲	Copy to Other Day
Tuesday	00:00 🌲	23:59 🜲	00:00 🜲	00:00 🌲	00:00 🌲	00:00 🜲	Copy to Other Day
Wednesday	00:00 🌲	23:59 🜲	00:00 🖨	00:00 🌲	00:00 🌲	00:00 🜲	Copy to Other Day
Thursday	00:00 🜲	23:59 🜲	00:00 🖨	00:00 \$	00:00 🌲	00:00 🜲	Copy to Other Day
Friday	00:00 🌲	23:59 🜲	00:00 🌲	00:00 \$	00:00 🌲	00:00 🌲	Copy to Other Day
Saturday	00:00 🌲	23:59 🜲	00:00 🌲	00:00 🌲	00:00 🌲	00:00 \$	Copy to Other Day

Figure 3-2-57 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)		
Manual	r: [pool.ntp.org		

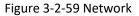




### [Network]

The Network page is as below:

ИТР	Manual	OHCP	
p	IP Address:	192.168.199.60	
NS	Subnet Mask:	255.255.252.0	
rt	Gateway:	192.168.199.1	
	DNS:	8.8.8.8	



### [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.



Network				
SMTP	User Name:	hdipnc		
FTP	Sender:	hdipnc@sina.	com	
DDNS	Password:	•••••	••	
Port	Server:	smtp.sina.com	1	
	Port:	25		
	To E-mail1:	user@domain	i.com	
	To E-mail2:	[		
	Encryption:	SSL	TLS	
		OK	Test	Apply

Figure 3-2-60 SMTP

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

Table 3-2-8 SMTP		
Parameters	Function Introduction	
User Name	The sender's name. It is usually the same as the account name	
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.



🖵 Networl			×
Network SMTP	Server: Server Port:	192.168.5.1           21	
FTP	User Name:	admin	]
DDNS	Password:	•••••	
Port	FTP Folder Name:	default_folder	
		ОК	Apply

Figure 3-2-61 FTP

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

Table 3-2-9 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			×
Network SMTP FTP	Enable DDN	S dyndns.org	•
DDNS	User Name:		]
Port	Password: Host Name:	 ОК	Apply

Figure 3-2-62 DDNS

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

Table 3-2-10 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

## [Port]

You can set HTTP and RTSP port here.

Network			
SMTP	HTTP Port:	80	
FTP	RTSP Port:	554	
DDNS	-		
Port			

Figure 3-2-63 Port



# L Users

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

👤 Users				×
Security Quest	ion			
Edit				
Account Mana	gement			
Add				
ID	User Name	User Level	Edit	Delete
1	admin	Admin	2	

Figure 3-2-64 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".

Security Question	n	×
Admin Password		
Security Question 1:	What's your father's name?	•
Security Answer 1:		
Security Question 2:	What's your father's name?	•
Security Answer 2:		
Security Question 3:	What's your father's name?	•
Security Answer 3:		
		OK

Figure 3-2-65 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 game? What's your favorite food? What's your favorite food? What's your lucky number? 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? Customized Question

Figure 3-2-66 Security Question

### [Account Management]

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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 Informa	tion	
Admin Password		
User <mark>L</mark> evel	Admin	*
User Name	admin	
Password		
Confirm Passwor	d	

Figure 3-2-67 Edit User

# X System The System page is as below:

System			
Device Name:	Network Camera		
Product Model:	MS-C2964-FPB		
Hardware Version:	V1.2		
Software Version:	40.7.0.65-pwd-a6		
MAC Address:	1C:C3:16:24:09:D2		
		ОК	Apply
Maintenance			
Reboot the device:	Reboot		
Reset:	Keep the IP Configur	ation	
	Keep the User Inform	nation	
	Reset		
Firmware File:	1	[m]	Upgrade

Figure 3-2-68 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.

<ul> <li>✓ Keep the IP Configuration</li> <li>✓ Keep the User Information</li> </ul>	<ul> <li>Keep the IP Configuration: keep the IP configuration when resetting the device.</li> <li>Keep the User Information: keep the User configuration when resetting the device.</li> <li>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.</li> </ul>
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.

### 3.3 Users

ł

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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 Information	
User Type Operator	▼ User Name
Password	Confirm Password
User Permission	Channel Permission
∠ Channel Permission	
Live View	
Playback	
PTZ	
🛛 🗹 Menu Permission	
View	
Playback	
Devices	
Device Config	
Vsers	
E-Map	
V Logs	

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:

Live View +	-		admin 🔒 📼 25% 📼 48% 🔻 _ 🗇 🗙
	9 9 9 9 E 🛊 🐇 🖬 8 9 5		■ ■ = = = · = · + 1/8 →
Image: Construction           Image: Microsolution           Image: Microsolution	📀 Milesight	📀 Milesight	📀 Milesight
	📀 Milesight	📀 Milesight	📀 Milesight
	📀 Milesight	📀 Milesight	📀 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

 Item
 Function Introduction

 I
 Play all the channels with Secondary stream

 X
 Stop all the playing channels

 L
 Cursor Mode

⊕,	Click the button will enable digital zoom the Live View
<b>L</b> +	PTZ Mode
O	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
25	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

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

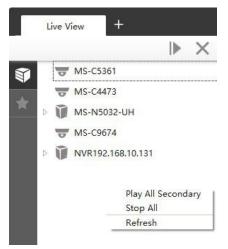
			► ×		
ĩ	0	MS-C53C1	Play		
	-	MS-C447	Stop		
<b>*</b>		MS-N50	Rename		
			Disable		
	0	MS-C967	Device Config		
		NVR192.	Sync Name		
	din		Sync All Names		
			Play All Secondary		
			Stop All		

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
₩,Ũ	Camera/NVR, which is connected
₩,₩	Camera/NVR, which is not connected
\$ <b>7</b> ,\$	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.





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

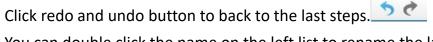
ustom Layout		
Layout Management	50	Basic Layout 8x8
+ Add 🗊 Delete		
		OK Cancel App

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.

Layout Management	50					Basic Lay	out 8
+ Add 🛍 Delete							
om Layout1				8		10	1
	1		12	13	14	15	
		20		1	17		
		22					
	19	24	25	26	27	28	
		30	31	32	33	34	

Figure 4-1-5 Create a new custom layout



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



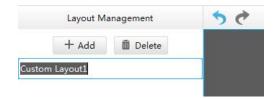


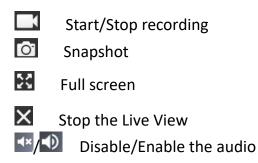
Figure 4-1-6 Rename a custom layout

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	

Item	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

### 🏝 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:

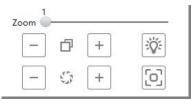


Figure 4-1-8 PTZ-2



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

Table 4-1-3 PTZ

ltem	Function Introduction
	Navigation key is used to control the direction. The rotation key is used for auto-rotation.
PTZ Speed5	To adjust the speed of pan/tilt movements, from 1 to 10
- ** +	Click -/+ to zoom in and zoom out
- 0 +	Click to focus near or far of the lens
- 5 +	Iris adjustment
<b>※</b>	Click to open/ close the White LED for lighting 30s
D	Auto Focus
Preset Patrol Pattern 001 Preset 1 🗎 🕷 🔦 🔺 002 Preset 2	<ul><li>save the setting of the current preset</li><li>delete the preset</li></ul>
003 Preset 3	call the preset
	Call the patrol
Preset Patrol Pattern Path1	set the path
Path3	delete the path
Preset Patrol Pattern	Call the pattern
Pattern1	record the pattern
Pattern4	delete the pattern

# Fisheye

Click the Fisheye button 🙆 , 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:



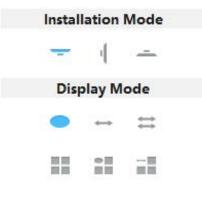


Figure 4-1-9 Fisheye

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

ltem	Function Introduction
-	Click to select ceiling mounting
4	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 Fisheye

### 🔛 Image

Click the Image button  $\boxed{}$ , 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:



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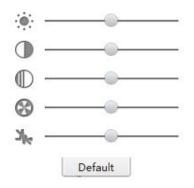


Figure 4-1-10 Image

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

Item	Function Introduction
: •	Brightness
	Contrast
$\mathbb{O}$	Saturation
8	Sharpness
Чke	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:

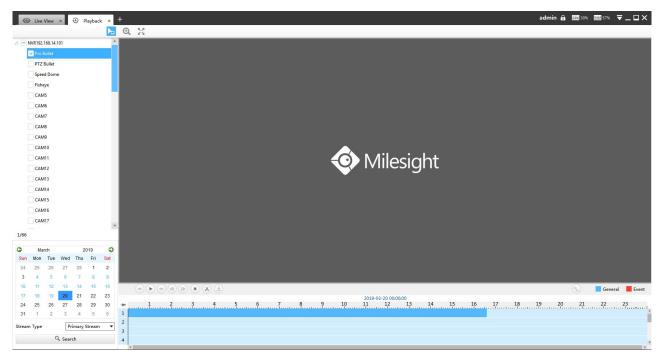


Figure 4-2-1 Playback

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  $\triangleright$  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

**Step3:** Check the time line to select the time to playback; there are four colors represent different record files; click the solution 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.

**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:

Channel	Start Time	End Time	Status	Download Status	Ope	ration
MS-N5032-UH-CAM1	2018-01-26 09:43:34	2018-01-26 10:51:34				
MS-N5032-UH-CAM2	2018-01-26 09:43:34	2018-01-26 10:51:34				<u>+</u>
MS-N5032-UH-CAM3	2018-01-26 09:43:34	2018-01-26 10:51:34				. <u>+</u>

Figure 4-2-2 Playback Download

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

ltem	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.

Step3. Click Apply to make transcoding take effect.

## 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:

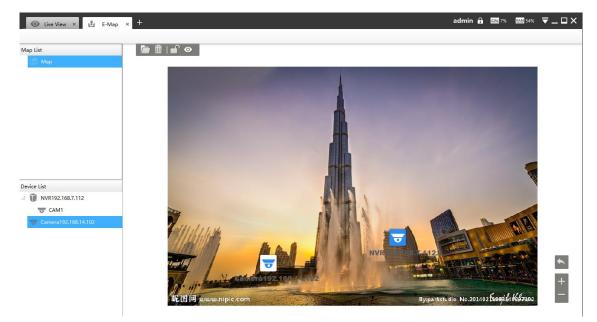


Figure 5-1-1 E-Map

Step1: Click the Add button 🖶 to add an electronic map

Step2: Draw 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:** Right-click the hot spot, select the [Play] to play the Live View of the hot spot.

**Step5:** Right-click the hot spot, select the [Delete] or click the Hot Delete button will to delete the hot spot;

**Step6:** Click Map Delete button undelete the electronic 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:

gs Search	No.	Time	User	Main Type	Sub Type	Device Name	Device Type	Channel	Message
Main Type	1	2018-11-01 14:53:27	admin	Operation Log	Start Live View		NVR	0	
Operation Log	2	2018-11-01 14:53:24	admin	Operation Log	Start Live View		IPC	0	
Sub Type	3	2018-11-01 14:31:19	admin	Occurring Law	Start Live View		NVR	0	
All	·] 5	2018-11-01 14:31:19	admin	Operation Log	Start Live View		NVR	U	
Start Time	4	2018-11-01 14:31:18	admin	Operation Log	Stop Live View		NVR	0	
2018/11/01 00:00:00	5	2018-11-01 14:31:16	admin	Operation Log	Start Live View		NVR	0	
End Time	6	2018-11-01 14:31:16	admin	Operation Log	Stop Live View		NVR	0	
2018/11/01 23:59:59									
9, Search	7	2018-11-01 14:31:09	admin	Operation Log	Start Live View		NVR	0	
🖾 Export	8	2018-11-01 14:31:09	admin	Operation Log	Stop Live View		NVR	0	
	9	2018-11-01 14:31:05	admin	Operation Log	Start Live View		NVR	0	
	10	2018-11-01 14:31:05	admin	Operation Log	Stop Live View		NVR	0	
	11	2018-11-01 13:49:51	admin	Operation Log	Start Live View		NVR	0	
	12	2018-11-01 13:49:42	admin	Operation Log	Add Device	Camera192.168.14.102	IPC		
	13	2018-11-01 13:48:54	admin	Operation Log	Search Device				
	14	2018-11-01 09:24:38	admin	Operation Log	Start Live View		IPC	0	
	15	2018-11-01 09:24:15	admin	Operation Log	Add Device	NVR192.168.7.112	NVR		
	<						1.11	_	

Figure 5-2-1 Logs

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

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. Search	Click the button to search the matched logs
🖆 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

Milesight Technology Co., Ltd provides customers with timely and comprehensive technical

support services. End-users can contact your local dealer to obtain technical support.

Distributors and resellers can contact directly with Milesight for technical support.

Technical Support Mailbox: support@milesight.com

Web: <u>http://www.milesight.com</u>

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