

Network Video Recorder User Manual

V5.07

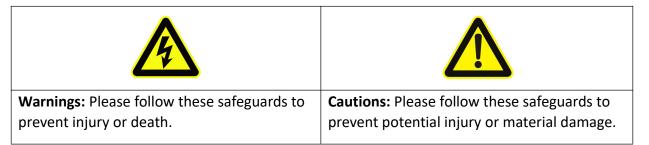
Milesight Technology Co.,Ltd.



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

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

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





Warnings

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



Cautions

- Make sure that the power supply voltage is correct before using the camera
- Do not store or install the device in extremely hot or cold temperatures, dusty or damp locations, and do not expose it to high electromagnetic radiation
- Only use components and parts recommended by manufacturer
- Do not drop the camera or subject it to physical shock
- To prevent heat accumulation, do not block air circulation around the camera
- ◆ Laser beams may damage image sensors. The surface of image sensors

should not be exposed to where a laser beam equipment is used

- Use a blower to remove dust from the lens cover
- Use a soft, dry cloth to clean the surface of the camera. Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry
- Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface finishes
- Save the package to ensure availability of shipping containers for future transportation

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2004/30/EC, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.



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



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to

indicate cadmium (Cd), lead (Pb), or mercury(Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Content

1. Product Introduction	7
1.1 Introduction	7
1.2 Product Key Functions	7
2. Hardware	
2.1 Panel Buttons	
2.2 Using a USB Mouse	
2.3 Hard Disk Installation	
2.3.1 MS-N7000 series Hard Disk Installation	
2.3.2 MS-N8000 series Hard Disk Installation	
3. Local Operation	
3.1 Wizard Setting	
3.2 Live View	20
3.2.1 Live View	20
3.2.2 Layout	24
3.3 Playback	25
3.3.1 General Playback	25
3.3.2 Event Playback	28
3.3.3 Tag Playback	
3.3.4 File Management	
3.3.5 Picture Playback	
3.4 Retrieve	
3.4.1 Common Backup	
3.4.2 Event Backup	
3.4.3 Picture Backup	
3.5 Camera Settings	
3.5.1 Camera Management	
3.5.2 Device Search	
3.5.3 PTZ Configuration	45
3.5.4 Privacy Mask	48
3.5.5 OSD configuration	
3.5.6 Image Enhancement	50
3.6 Storage	51
3.6.1 Record Schedule	52
3.6.2 Record Settings	54
3.6.3 Disk	
3.6.4 RAID	56
3.6.5 Group	58
3.7 Event	59
3.7.1 Motion Detection	59
3.7.2 Video Loss	62
3.7.3 Alarm Input	
3.7.4 Alarm Output	67

3.7.5 Exception	68
3.7.6 Smart Event	
3.8 Settings	
3.8.1 General	96
3.8.2 Network	97
3.8.3 Holiday	101
3.8.4 User	102
3.8.5 Maintenance	105
3.8.6 Auto Reboot	106
3.8.7 Hot Spare	106
3.9 Status	
3.9.1 Device Information	108
3.9.2 Network Status	
3.9.3 Camera Status	109
3.9.4 Disk Status	
3.9.5 Event Status	110
3.9.6 Group Status	112
3.9.7 Logs	113
3.10 Logout	114
4.WEB Settings	115
4.1 Account Setting	115
4.2 Login	116
4.3 Menu	118
4.4 Live View	119
4.4.1 Camera List	119
4.4.2 PTZ	
4.4.3 Image Configuration	121
4.5 Playback	
4.5.1 How to playback	
4.5.2 Transcoding	123
4.5.3 Video Files Backup	123
4.5.4 Picture Files Backup	124
4.6 Settings	
4.6.1 Local Configuration	125
4.6.2 Camera	126
4.6.3 Storage	135
4.6.4 Event	
4.6.5 System	
4.7 Status	
4.7.1 Device Information	
4.7.2 Network Status	
4.7.3 Camera Status	
4.7.4 Disk Status	
4.7.5 Event Status	

4.7.6 Packet Capture Tool	
4.8 Logs	
4.9 Logout	190
5. Services	191

1. Product Introduction

1.1 Introduction

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

1.2 Product Key Functions

Basic Information

 Milesight NVR Series includes NVR Series (Mini NVR 1000 Series, Pro NVR 5000 Series, Pro NVR 7000 Series, Pro NVR 8000 Series), and PoE NVR Series (Mini PoE NVR 1000 Series, PoE NVR 5000 Series and PoE NVR 7000 Series), which can work with Milesight network cameras and connect with third party network cameras that support ONVIF.

Monitoring

- Support HDMI video output, maximum to 3840*2160 resolution.
- Support PAL/NTSC adaptive video input.
- Support multiple screen displaying in live view.
- Support 1/4/8/9/12/14/16/32 screen live view, channel sequence is adjustable.
- Support quick menu and tool bar in live view.
- Support batch IP editing, setting camera's video parameters and record schedule.
- Support live view group switch, manual switch and automatic patrol. The interval of automatic sequence is adjustable.
- Support motion detection and video loss alert.
- Support various PTZ protocols and PTZ operations such as preset, patrol, etc.
- Support central zoom in by clicking the mouse at arbitrary area.
- Support 3D positioning control for the PTZ Camera Series and Fisheye Camera Series.
- Support to set privacy mask of camera.
- Support OSD title and date configuration.
- Support instant playback.
- Support to set view to Original or Resize.

HDD Management

- Support hard disk and NAS storage.
- Support S.M.A.R.T technology.
- Support RAID and Group management.
- Support to set HDD property, including read-only and read/write.

• Support eSATA disk for recording or backup of NVR Pro 8000 Series.

Recording/Snapshot and Playback

- Support Transcoding for remote playback.
- Support recording with Primary Stream, Secondary Stream and Primary + Secondary Stream.
- Support General Playback, Event Playback, Tag Playback and Picture Playback.
- Support to tag and lock video.
- Support holiday schedule.
- Support recycle and non-recycle recording mode.
- Support 12 recording time periods with separate recording types.
- Support pre-record and post-record time setting for motion detection, alarm and smart event recording. And support pre-record setting for manual and schedule recording.
- Support recording/snapshot manually.
- Support digital zoom function at arbitrary area in playback.
- Support pause, rewind, fast play, slow play, skip forward and skip backward when playback, locating in progress bar by dragging the mouse.
- Support up to 128x fast forward playback.

Backup

- Support N+1 Hot Spare.
- Support Common Backup, Event Backup and Picture Back in Retrieve interface.
- Support export video files or snapshot to USB and eSATA device.
- Support backup device maintenance and management.

Alarm & Exception

- Support motion detection configure and alarm.
- Support video loss alarm, alarm input and alarm output.
- Support Network Disconnected/Disk Full/Record Failed/Disk Error/Disk Uninitialized/No Disk alarms.
- Support smart event alarm, including Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting and Object Left/Removed(Optional).
- Support various alarm response such as audible warning, sending email, recording and on/off relay out.

Network

- Equipped with PoE ports for PoE cameras(only available for PoE NVR).
- Support remote search, playback and download of video files.
- Support remote acquiring and configuring of parameters.
- Support remote import and export of device parameters.
- Support P2P remote access.
- Support IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SNTP, SMTP, SNMP, UPnP.

- Support remote acquiring of device status, system log and alarm status.
- Support remote operate system maintenance by initialize hard disk, add NAS, upgrade firmware and auto reboot, etc.
- Support upload alarm and exceptions to remote host.
- Support remote manual start or stop of recording.
- Support remote manual start or stop of alarm output.
- Support remote BMP image capturing.
- Support remote PTZ control.
- Support keyboard control.
- Built-in WEB Server.

Other Functions

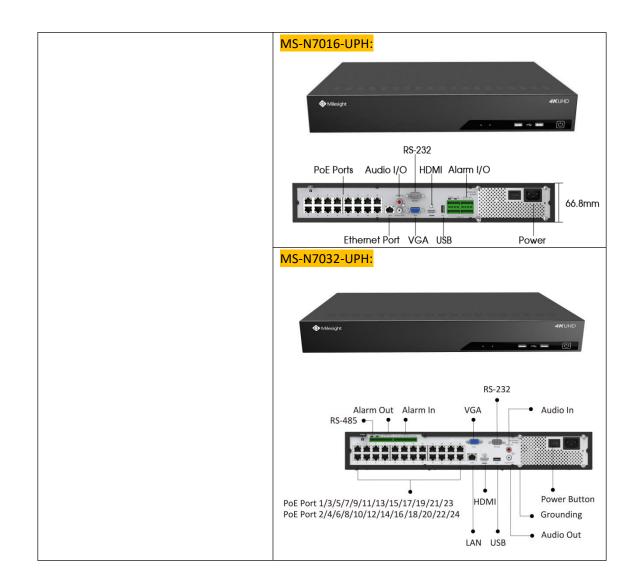
- Support multi-level user management, administrator can create multiple users with access rights.
- Support operating and configuring information import/export.
- Support auto reboot.
- Support CGI for Windows and Linux system.
- Support Plugin-Free mode.

2. Hardware

2.1 Panel Buttons

Model	Hardware/Interface
	MS-N1009-UT (Firmware version: 71.xx.xx.xx):
4K H.265 Mini NVR 1000 Series	MS-N1009-UNT:
4K H.265 Pro NVR 5000 Series	MS-N5008-UT/MS-N5016-UT:
4K H.265 Pro NVR 7000 Series	MS-N7016-UH/MS-N7032-UH: Console Audio I/O HDMI Alarm I/O Console Audio I/O HDMI Alarm I/O Console Audio I/O HDMI Alarm I/O Console Co





2.2 Using a USB Mouse

ltem	Click	Description
	Single- click	Live view: select the channel and show the toolbar of live view.
	Single- Click	Menu: select and confirm.
	Double-click	Switch between single screen to multi-screen when in live view
	Double-click	mode and playback mode.
Left Button		(1) Control rotation direction in PTZ mode.
	Click and	(2) Set the target area in motion detection, smart event and
		privacy mask alarm settings.
	drag	(3) Drag to set the digital zoom area.
		(4) Drag the channel and the time scroll bar.
Diabt Dutton	Cingle eliek	Live view: shows pop-up menu.
Right Button	Single-click	Menu: exit and go to Live View.
Coroll whool	Scroll up	Scroll up the page.
Scroll-wheel	Scroll down	Scroll down the page.

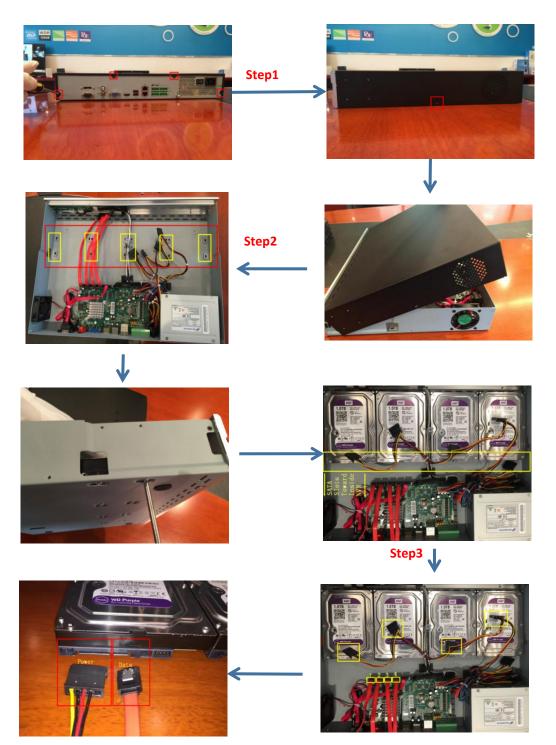
2.3 Hard Disk Installation

2.3.1 MS-N7000 series Hard Disk Installation

Step1. Unscrew the back and both sides' screws to open the upper lid.

Step2. Install the hard disks into NVR with screws shown in below pictures. (SATA Slots of hard disk should be toward inside NVR.)

Step3. Join the power and data connectors to corresponding hard disk.







2.3.2 MS-N8000 series Hard Disk Installation

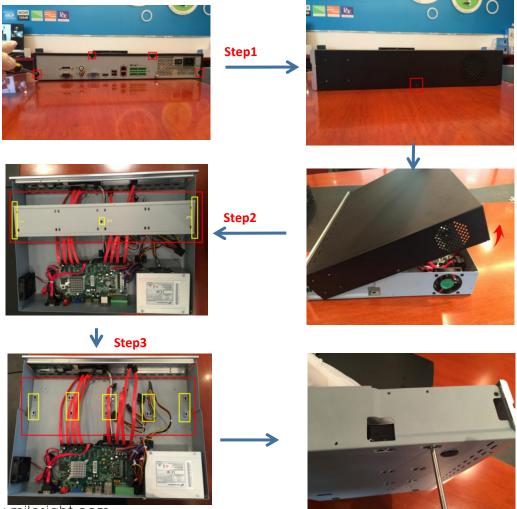
Step1. Unscrew the back and both sides' screws to open the upper lid.

Step2. Uninstall the upper hard disk panel.

Step3. Install the hard disks into NVR with screws shown in below pictures.(SATA slots of hard disks should be toward inside NVR)

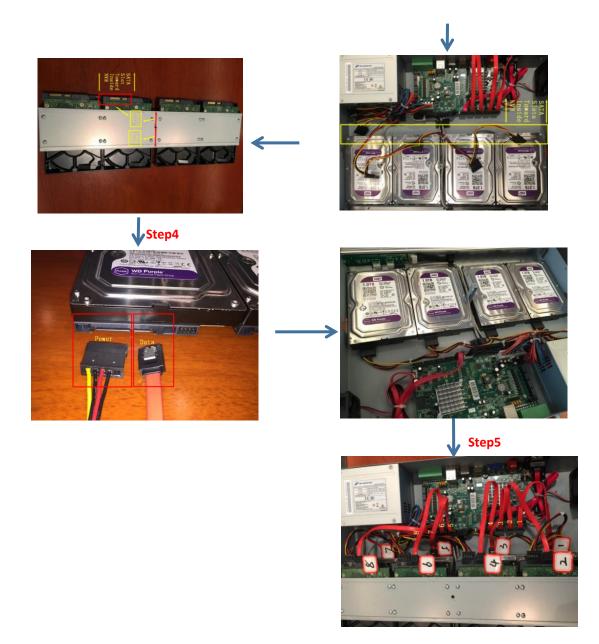
Step4. Join the power connectors to corresponding hard disks.(Install lower hard disk panel before upper one)

Step5. Join the data connectors to corresponding hard disk.(Check the connection by below sequence)



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Note:

- 1. The SATA slots are in SHORT HALF side and the SATA slot toward inside NVR.
- 2. The data connector sequence of MS-N7000 series is different from MS-N8000 series'.

3. Local Operation

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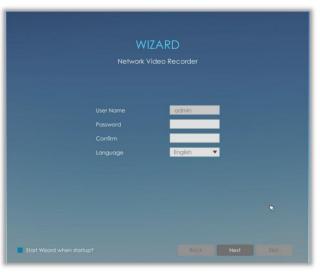


3.1 Wizard Setting

By default, the Setup Wizard will start once the NVR has been loaded. You can click check-box to turn off the Wizard when startup.

Start Wizard when startup?

The Setup Wizard will guide you to complete important settings, which makes NVR more user-friendly.



Step1. Set password to active admin account.

Note:

- 1. Only the NVR firmware version xx.9.0.3 or above supports activation function.
- 2. Password must be 8 to 32 characters long.
- 3. Password must contain at least one number and one letter.

Step2. Set security questions which are used for resetting password.

10 questions are provided, you can select any one to set answer. Beside, customized question is available.

If you skip this step, you can also set it again in Setting -> User interface.

	WIZAR	D	
	Network Video R		
	What's your father's nam	e?	•
	What's your father's nam	e?	 •
	What's your father's nam	e?	•
Start Wizard when startup?			

Note:

Only the NVR firmware version xx.9.0.3 or above supports.

Step3. Date and time setting.

Select the Time Zone and date via NTP or you can set date and time manually.

	(UTC-08:00) United States - Pacific Time	¥
	Auto	*
	pool.ntp.org	
Set Date and Time Man		
	2017.12.05 22:33:29	\$

Step4. Network setting.

Input the IP Address, Subnet Mask, Gateway and Preferred DNS Server. PoE NIC IPv4 Address option is only for PoE NVR Series.





Step5. Camera Management.

Search all the cameras in LAN by filtering Protocol and IP Range. Select cameras and click

	23		

to add them to NVR.

				WIZAF ork Video					
Protocol All	▼ Sel	ect NIC All	٣		0.0.0.0		255.255.2	55.255	
No.	IP Address	IP Edit	Status	Port	Protocol	NIC	MAC		Firmware Versia
2 2 0									
4									
PoE Channel	Edit	Status	P)	Address	Port	Pro	focol	мас	Firmwo
and the second	Edit	Status	P	Address	Part	Pro	focol	мас	
and the second	Edit	Status	P	Address	Part	Pro	focol	мас	

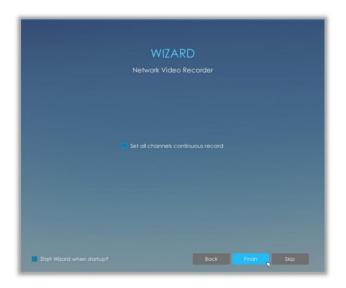
Note:

- 1. It can auto detect cameras that connected to PoE ports (only for PoE NVR).
- 2. If camera status shows inactive, please click Activate to active it first.

Step6. Record

The user can start all channels recording by clicking **□**.





Step7. Login

Input the user name and password to login the system.

	User Login Network Video Recorder				
User Name Password	admin 🔹	0			
	k ogin				

If you forget the password, click 💿 to reset password.

	Please fill in the answers to authentication.
Question 1:	What's your father's name?
Answer 1:	
Question 2:	What's your father's name?
Answer 2:	
Question 3:	What's your father's name?
Answer 3:	

Note: Only the NVR firmware version xx.9.0.3 or above supports password reset if you forget it.

3.2 Live View

• Milesight

3.2.1 Live View



Main Menu and Tool Bar can pop up and hide automatically at the right side or bottom of the interface.

Note: Tool Bar won't be hidden if there is event notification.

lcons	Descriptions	lcons	Descriptions
в	Lock/Unlock the tool bar		One screen layout
	4 screen layout		8 screens layout
	1+7 screens layout		9 screens layout
	16 screens layout	32	32 screens layout
*	Select other screen layouts	ũ	Start all channels recording
¥@	Stop all channels recording	¥	Adjust image in proportion
Ē	Display settings	(\cdot)	Sequence

Note:

Start all channels recording, Stop all channels recording, Adjust image in proportion and Display settings are **for all displaying channels**.

There are multiple icons on each channel displayed in live view, indicating different status of the

channel.

Icons	Descriptions					
-CAU3 192.164.8.150	It indicates video loss					
-35	It indicates motion detection alarm					
•	It indicates that the current channel is recording.					
	It indicates exception alarm					
0	It indicates smart event alarm					

Right click in the Live View and the quick operation menu pops up.

Menu Single Screen	
Multi Screer 🗙 🔸	4 Screen
Display Info	8 Screen
Previous Screen	1+7 Screen
Next Screen	9 Screen
Logout(admin)	12 Screen
	1+11 Screen
	14 Screen
	16 Screen
	25 Screen
	32 Screen
	1+31 Screen

ltem	Descriptions
Menu	Display Main Menu
Single Screen	The selected channel will be full screen. You could go back to previous screen layout by double clicking the channel
Sub Screen Ctrl	Switch to sub screen to operate (Only for Pro NVR 8000 Series)
Multi Screen	Switch to multiple screen layouts
Display Info	Show channel information, including Camera Number, Bit Rate, Frame Rate and Frame Size
Previous Screen	Switch to previous screen
Next Screen	Switch to next screen
Logout	Log out current user account



Quick Operation for single channel

In live view interface, left click the channel, the quick menu will appear.



lcons	Descriptions	lcons	Descriptions
O	Manually record		Image Configure
٠	PTZ control	X	Original/Resize the image
. ¶⊗	Audio on/off	ø	Digital zoom
63	Snapshot manually	\odot	Instant Playback
-	Fisheye Mode	×	Close menu

Fisheye Mode:

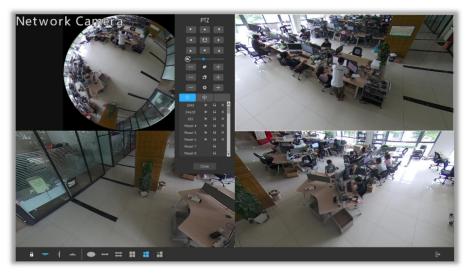
Click conter Fisheye Mode, which will full screen fisheye channel. You can set installation modes and display modes for the camera on the Fisheye tool bar.



Installation Mode: Ceiling Mount/ Wall Mount/ Table Mount

Display Mode: Original Fisheye View/ 360° Panorama View/ Two 180° Panorama Views/ Four Regional Views/ One Original Fisheye View and Three Regional Views/ One 360° Panorama View and Three Regional Views

Select a fisheye channel(except for the original view), and click is to enter PTZ Mode. You can operate PTZ, Preset and Patrol of this channel separately.





Note:

Only for Milesight Fisheye Camera in Bundle-Stream Mode.

PTZ Mode:



Click Click channel will be full screen.

	•		
Preset 1 Preset 2			
Preset 3			
Preset 6 Preset 7			
Preset 8			
. •		T.	

You can do PTZ, Preset, Patrol and Pattern operation in the PTZ panel. Meanwhile, there are three icons in the tool bar. The descriptions are as below.

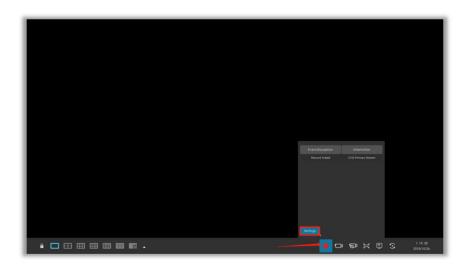
Icons	Descriptions	lcons	Descriptions
Ð	Lock/Unlock the tool bar	3D	Enable/Disable 3D positioning
1 *	Show/Hide the PTZ control panel		

Event Notification:

in live view bottom tool bar when exception alarm is triggered. There is a You can click it and check alarm details.

Also, you can select which alarm notification you want to get by click settings.

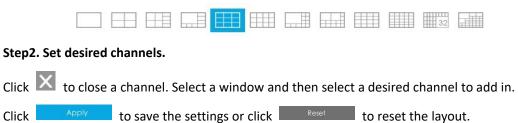




3.2.2 Layout

~		Layout Configuration							
^ .						Layout Configuration			
Layout Configuration									
						1 2 3 10	11 12 19 28 2		
						d 5: 4. 13. 7: 8: 9 16.	14 15 22 23 2 17 18 25 26 2	31 32	
		Char	melt 1 Nome	CAMI			Cueent Page: 1		
		= 2	- 3	- 4	- 5	·			
	- 4	= 7 = 12	= 8 = 13	= 9	= 10 = 15	t 🗙			
		= 17	- 18	- 19	- 20				
	- 21	- 72	# 23	- 24		*			
	- 26	= 27	# 25	= 29	3 0	+ X			
	- 31	= 32							
						r r 🗙 _{Const}			
						Some settings for different layout			
Live View									

Step1. Select a layout format.

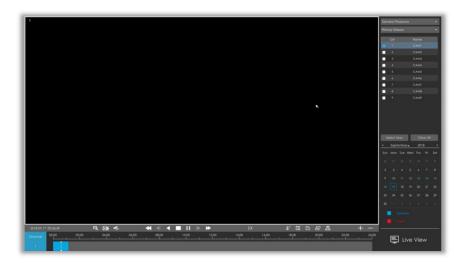


- 1	= 2	— 3	- 4	m 5	1			
m 6	III 7	= 8	9	- 10	_			
	m 12	= 13	= 14	- 15	_			
1 6	III 17	= 18	= 19	= 20			e:	
= 21	= 22	= 23	= 24	= 25				
2 6	m 27	= 28	an 29	= 30	_		⊼	
3 1	an 32				_			
					7	7 X	8 8 X	, x
					Sar	ne settings for different lay	tuor	

3.3 Playback

Playback supports to playback video according to recorded time and to play recorded video files in specified time period. Synchronous playback of multi-channel is supported.

3.3.1 General Playback



Step1. Select General Playback as playback type.

General Playback	~
General Playback	
Event Playback	
Tag Playback	
Picture Playback	HL.

Step2. Select Stream Type.

Primary Stream and Secondary Stream are available.

Primary Stream	-
Primary Stream	
Secondary Stream	

Step3. Select channel.



Select channels you want to do playback. User can click

to select maximum

channel for playback, 9 channels for Milesight Mini (PoE) NVR Series while 16 channels for other NVR. Layout of playback will be automatically adjusted according to the amount of the selected channels.

СН	Name
1	CAM1
2	CAM2
3	САМЗ
4	CAM4
	CAM5
	CAM6
	CAM7
8	CAM8
	CAM9
elect Max	Clear All

Step4. Select date.

The day with blue letters means that there are record files.

<	Septe	embe	er v	201	8	>
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Video Playback Tool Bar Description



Every channel got their own file bar, and there is only one file bar matching with the selected channel. The tool bar can display multiple types record. It shows that in this record period what kind of event has happened. The symbolic meaning of each color is: **Blue**—General

Red --- Event

And take this bar above as an example, it means that there is continuously recording in this period.

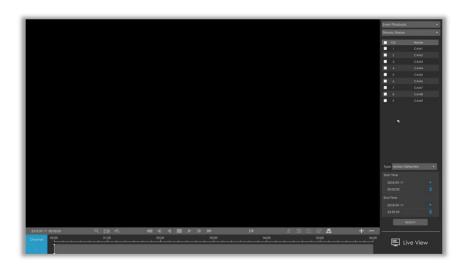
lcons	Descriptions	lcons	Descriptions
ପ୍	Digital zoom	Ō	Snapshot
М	Audio on	•	Audio off
₹	Speed down	*	Speed up
	Step reverse	►	Step forward
<	Rewind	►	Play
	Stop	11	Pause
<u>ال</u>	Timeline cutting		Lock video file
6	Quick tag	Ū	Custom tag
£	File Management	+	Zoom in timebar
	Zoom out timebar		

Lock Video: Once the video is locked, the whole file where the video located won't be overwritten. You can also change the lock status in Retrieve interface.

Tag Video: Quick Tag and Custom Tag are available for tag operation in Playback interface. You can backup video via tag in Retrieve interface or do tag playback in Playback interface.

3.3.2 Event Playback

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Step1. Select Event Playback as playback type.

Event Playback	•
General Playback	
Event Playback	
Tag Playback	
Picture Playback	

Step2. Select Stream Type.

Primary Stream and Secondary Stream are available.

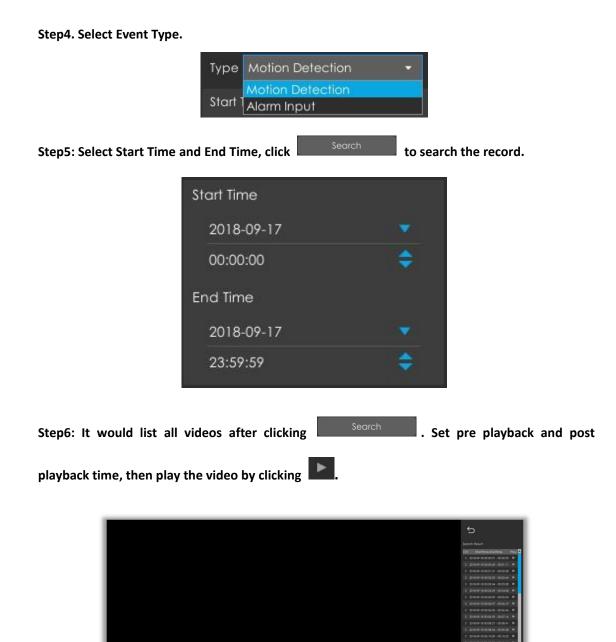
Primary Stream	
Primary Stream	
Secondary Stream	

Step3. Select channel.

Select channels you want to do playback. Layout of playback will be automatically adjusted according to the amount of the selected channels.

СН	Name
	CAM1
2	CAM2
3	САМЗ
4	CAM4
5	CAM5
6	CAM6
7	CAM7
8	CAM8
9	CAM9

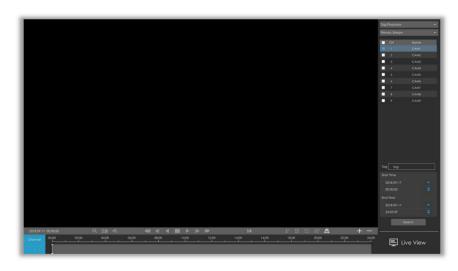
📀 Milesight



Video Playback Tool Bar Description are the same as General Playback.

3.3.3 Tag Playback

📀 Milesight



Step1. Select Tag Playback as playback type.

Tag Playback	-
General Playback	
Event Playback Tag Playback	
Picture Playback	

Step2. Select Stream Type.

Primary Stream and Secondary Stream are available.

Primary Stream	
Primary Stream	
Secondary Stream	

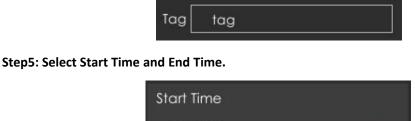
Step3. Select channel.

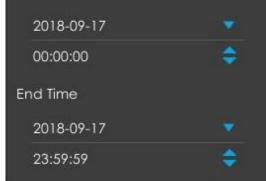
Select channels you want to do playback. Layout of playback will be automatically adjusted according to the amount of the selected channels.

CH	I Name	
1	CAM1	
2	CAM2	
3	CAM3	
4	CAM4	
5	CAM5	
6	CAM6	
7	CAM7	
8	CAM8	
9	CAM9	



Step4. Input tag name or any key words of tag.

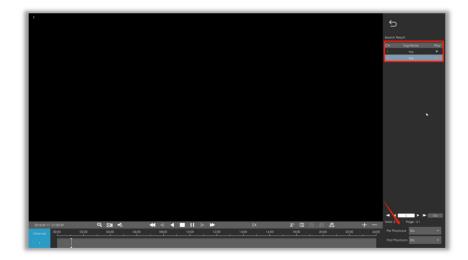




Step6: It would list all tagged video after clicking

. Set pre playback and post

playback time, then play the tag video by clicking



Video Playback Tool Bar Description are the same as General Playback.

3.3.4 File Management

It would list all the operation you did this time until exit the Playback interface. Operation includes clip video, snapshot, lock file and tag. Besides, you can export clipped video, playback snapshot and locked file to USB drives and eSATA.

				10	inary Steam	
						Nome
						CAMI
	Playba	ck File Management				
Vide	a Cip Playback Snapshof	Locked File Tog				CAMS
	Channel Startlime Endline		Soe			CAME CAM7
	1 2018-09-17 00:07:20 - 0	0:23:19 49	3.07 MB			
	2 2018-09-17 00:07:20 - 0	0:16:14 21	5.69 MB			CAMP
	2 2018-09-17 00:16:14 - 0	0:23:19 17	1.94 M8			
	3 2018-09-17 00:07:20 - 0	0:13:46 38	8.85 M8			
	3 2018-09-17-00:13:46 - 0		5.65 MB	-	Select Max September	
Selected Total Szer		Totai: 5 Page: 1/1 🕊 ◀	1 > > 20			
		Export All	Export Cancel			
				100		
				12		
্ চে 🖌 👒		1×	10685	+		

Take clip video as example. Step1. Cut recorded files.

Select the channel and date you want to backup, then select the time at timeline and click *L*, then drag the timeline to select the start time and end time of video.

				Start Time	End Time 🗙
				0:44	23 1:06:54 _
2018.09.17 00:55:50		Q 📴 🏍			
Channel USU			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
Step2. Click 🗾 to	o sav	e the c	lipped video.		
Step3. Click 🕮 t	o po	p up Fi	le Management interfa	ice. Select the video	you clipped and click
Export to e	expo	rt vide	0.		
[Playback File Manc	gement	
	×	ideo Clip	Playback Snapshot Locked File	Tag	
		Channel	StartTime-EndTime	Size	
		1	2018-09-17 00:07:20 - 00:23:19	493.07 MB	
		1	2018-09-17 00:24:33 - 00:38:08	418.65 MB	
		1	2018-09-17 00:38:08 - 00:46:21	252.18 MB	
		2	2018-09-17 00:07:20 - 00:16:14	215.69 MB	
		2	2018-09-17 00:16:14 - 00:23:19	171.94 MB	
		3	2018-09-17 00:07:20 - 00:13:46	388.85 MB	
		3	2018-09-17 00:13:46 - 00:23:19	575.65 MB	

Total: 7

Page: 1/1 < < 1 🕨 🎽

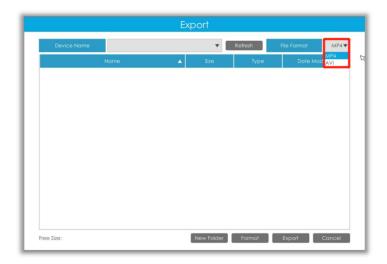
Export All Export Ci

13

Step4. Select the device to storage exported video and then click	Export
Step4. Select the device to storage exported video and then thick	

Selected Items:1 Total Size:493.07 MB





Note:

You can also directly format and create new folder of storage device here. There is an information promoted showing the export progress.

	Information
Export video	1/1 11%
	Cancel

Note:

The download time of files depends on the time length of video you want to backup.

3.3.5 Picture Playback



Step1. Select Picture Playback as playback type.

Picture Playback	-
General Playback	
Event Playback	
Tag Playback	
Picture Playback	

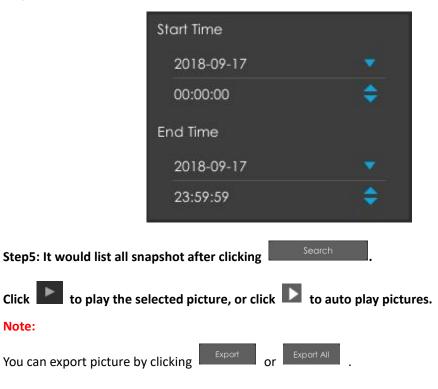
Step2. Select channel.

СН	Name
1	CAM1
	CAM2
3	САМЗ
4	CAM4
5	CAM5
6	CAM6
7	CAM7
8	САМ8
9	САМ9

Step3. Select Snapshot type, including Live View Snapshot and Playback Snapshot.

Туре	Live View Snapshot	-
	Live View Snapshot	
Start 1	Playback Snapshot	

Step4: Select Start Time and End Time.







Icons	Descriptions	lcons	Descriptions
<	Play backward		Play
←	Previous picture	^	Next picture
¢	Back to search interface		

3.4 Retrieve

3.4.1 Common Backup

Support to search out record file according to different stream type, record type and file type you set.

* .										
					2. Charles					
Common Backup	Chonnel	I AI								
Contraction			2	0,3	4	5	□ ★	07		09
	Time									
	Steam Type	Primary \$3	ream							
	Record Type	Al								
	File Type	IA .								
	Start Time	2018-09-1	7			*	00:00:00			4
	End Time	2018-09-1	7			*	23:59:59			4
									c	

Channel	AI 1 2 3 4 5 6 7 8	9
Time	From 2018-09-11 01:25:29 To 2018-09-17 01:08:07	
Stream Type	Primary Stream	
Record Type	Al	
File Type	All	
Start Time	2018-09-17 💌 00:00:00	\$
End Time	2018-09-17 💌 23:59:59	\$

In Common Backup interface, play, lock and unlock video are supported. Click 🜔 to play and

to lock. Once the video is locked, the whole file where the video located won't be overwritten.

* .	Common Backup							
			Channel	Dik	StartTime-EndTime	Size	Play	Lock
	and the second second		1	1	2018-09-18 00:00:00 - 00:16:32	225.64 M8	۲	a î
			1	1	2018-09-18-00:14:32 - 01:08:37	437.23 MB	۲	10
Event Bockup			1	1	2018-09-18 01:08:38 - 02:52:59	580.05 MB	۲	n n
			1	1	2018-09-18 02:52:59 - 04:37:11	250.60 MB	۲	1
			3	1	2018-09-18 00:00:00 - 00:21:52	706.18 MB	۲	n
			3	1	2018-09-18 00:21:52 - 00:53:28	1019.13 M8	۲	6
			3 1	1	2018-09-18 00:53:28 - 01:08:37	489.01 MB	۲	6
	Participation of the second seco		3	1	2018-09-18 01:08:38 - 01:25:03	530.09 MB	۲	
			3	1	2018-09-18 01:25:03 - 01:56:37	1018.99 MB	۲	
			3	1	2018-09-18 01:56:37 - 02:28:12	1019.00 MB		
			3	1	2018-09-18 02:28:12 - 02:59:47	1019.08 MB		n
	■		3	1	2018-09-18 02:59:47 - 03:31:24	1018.99 MB	۲	1
			3		2018-09-18 03:31:24 - 04:03:00	1019.00 MB	۲	n n
	Channel:1		3	1	2018-09-18 04:03:00 - 04:34:35	1019,12 MB	۲	a l
	Stort Time:2018-09-18 00:00:00		3	1	2018-09-18 04:34:35 - 04:40:22	186.33 MB	۲	aî a
	End Time:2018-09-18 00:16:32		- 4	1	2018-09-18 00:00:00 - 00:04:42	315.56 MB	۲	10
	File Size:225.64 M8		4	1	2018-09-18 00:04:42 - 00:19:07	1018.98 MB	۲	6
			- 4	1	2018-09-18 00:19:07 - 00:34:14	1018.94 MB	۲	10
		Toto	i Sze:69.58 G	8	*	•	Total: 8	14 Paj

3.4.2 Event Backup

Support to search out and backup picture according to event type. The event type includes Motion Detection, Alarm Input, Alarm Output and Smart Event.

	Retrieve			CPB B. Memory B.
* .		Event Backup		
Common Backup Knerri Backup Pickae Backup	Man Iyan Beam Iyan Jara Tina Dat Tina Per Physica Per Physica Parama	Multin Detection Pennay Search 2018-06-17 2018-07 201 201 201 201 201 201 201 201 201 201	 € 0005:00 € 23.39:59 	* ¢ *
Eive View	Gaw	■ AI ■ 1 ■ 2 ■ 3 ■ 4	8 5 8 4 8 7 8 4	Box.
Step1: Set the search condit	ion and click	Search 🔀 to	search video.	
Main Type Sheam Type Stach Time End Time Pine Raykback Patil Nayback	Motion Detection Primary 3tearm 2016-09-17 2018-09-17 305 305		00000 59:59	• • • • • •
Channel	AI 2	3 4 5	6 7 8	
Step2: Select the file you Backup All to backup In Event Backup interface, yo	all recorded vi			Also, you can
% .	Retrieve	Event Backup		(P) E.

. . . .

up Al Bo

click

3.4.3 Picture Backup

📀 Milesight

Support to search out and backup picture according to picture type. The picture type includes All, Live View Snapshot and Playback Snapshot.

		Retrieve					CPU II
	A.			Picture Backup	E		
	Common Backup	Chonel	AI 2	3 4	5 6		
	Event Bockup	Police Trop	AJ				
	Picture Bookup	Start Time End Time	2018-09-17 2018-09-17		00.00.00 23:59:59		¢ ¢
	Live View						
						Search 2	back
Step1: Set t	he search condit	tion and click		🛛 to	search sn	apshot.	
	Channel	Al	_	_			
		1 2	3 4	5	6 7	8	9
	Picture Type Start Time	All 2018-09-17			0:00:00		*
	End Time	2018-09-17			3:59:59		\$ \$

Step2: Select the file you want to backup and click Bockup . Also, you can click

Backup A

to backup all recorded videos.

* .	Picture Backup							
	1018-68-17 101-68-48	Channel	time	Dek	Sim			
			2018-09-17 19:49:44		106.30 KB			
		□ 1	2018-09-17 19:49:46	1	106.00 KB			
		I 1	2018-09-17 19:49:50 2018-09-17 19:49:50	1	106.81 KB			
	CONTRACT ON CONTRACT OF CONTRACT ON CONTRU							
		Total Size: 655.00 KB	Select Sze: 335.88 KB	• • ==	Tatai: 4 Page:			

3.5 Camera Settings

Before configuration, please ensure that the camera is connected to the same network as your

NVR and that the network setting for your NVR is properly set.

3.5.1 Camera Management



Step1. Add camera.

Method1. Add camera through Device Search interface. 'Settings' \rightarrow 'Camera' \rightarrow 'Device Search'.

	Camera Settings		CPU B
* .		Device Search	
	Nolocol Al Selective Al	# Ronge 0.0.0.0. - 2552352552 N NIC MAC Himware Verson Model	
Device Search			
P12 Configuration			
	4		
Live View		Activote PEdit Add	l Back

1. Select IP Range, NIC and Protocol, which includes ALL, ONVIF and MSSP.

	Protocol	All		Select NIC All	•	IP Range	0. 0. 0. 0	-	255.255.255.255	Search
--	----------	-----	--	----------------	---	----------	------------	---	-----------------	--------

2. Click

search button to search cameras at the same LAN with NVR.

_	_			_							
				Status		Protocol		MAC	Firmware Version		
	1	192.168.7.71	ß	Active	80	MSSP	LAN	1CC316210C30	41.7.0.68-r1	MS-C3762-FIPB	Milesight
	2	192.168.7.76	ß	Active	80	MSSP	LAN	1CC31621666C	41.7.0.67-r36	MS-C4472-FIPB	Milesight
	3	192.168.7.77	2	Active	80	MSSP	LAN	1CC31621038E	40.7.0.68-06	MS-C4473-PB	Milesight
	4	192.168.7.80	ß	Active	80	MSSP	LAN	1CC3162460F6	40.7.0.67-r14	MS-C2975-PB	Milesight
	5	192.168.7.82	ß		80	ONVIF	LAN	0387480A82A5			
	6	192.168.7.86	ß	Active	80	MSSP	LAN	1CC31623C84D	41.7.67.67-r39-sip3	WE8-C67V/D	IPCAM
	7	192.168.7.93	Ľ	Active	80	MSSP	LAN	1CC3162460DE	40.7.0.67-r39-sip3	MS-C2975-PB	Milesight
	8	192.168.7.100	ß	Active	80	MSSP	LAN	1CC3162000EF	41.7.0.68	MS-C2862-FPB	Milesight
	9	192.168.7.110	Ø		80	ONVIF	LAN	303036344E00			
	10	192.168.7.111	ß	Active	80	MSSP	LAN	1CC31690815E	43.7.0.68-r1	MS-C9674-PB	Milesight

3. Select one channel, click Add button, input password and click Add button to finish

MAC	1CC316210C30
Channel	2
Channel Name	CAM2
IP Address	192.168.7 .71
Port	80
User Name	admin
	MSSP
Transport Protocol	UDP

4. Check 📕 to **batch adding** the network cameras if they are with the same password, you can

choose TCP or UDP transport protocol for it. Click ok to finish batch adding **MSSP:** You can search out all Milesight camera which has different network segment in the LAN.

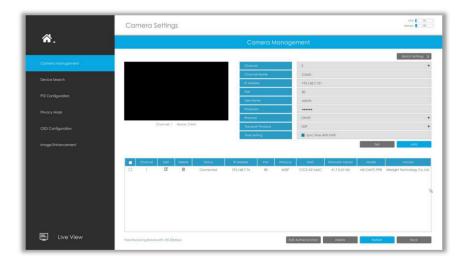
	ch Add
User Name	admin
Password	•••••
Transport Protocol	UDP 🔻

Note:

The steps for adding the third party PoE cameras plugged into Milesight PoE NVR:

- ① Set camera's IP segment to the same as NVR PoE NIC before plugging to PoE NVR;
- ② Select PoE for NIC in Device Search interface, click Search to search out cameras;
- ③ Select cameras and click Add to add them.

Method2. Add camera through camera management interface. 'Settings' \rightarrow 'Camera' \rightarrow 'Camera Management'.



Select channel ID, input complete information, then click [Add] button. There are three protocols available for camera connection:

• **ONVIF:** You can add any ONVIF IP cameras with ONVIF protocols.

Channel	2
Channel Name	CAM2
IP Address	192.168.7.101
Port	80
User Name	admin
Password	*****
Protocol	ONVIF 🗸
Transport Protocol	UDP 🗸
Time Setting	Sync Time With NVR
	Test Add

RTSP: You can add any IP cameras with RTSP protocol streams (Port: 554). It needs you to input complete resource path of the IP camera to add it. Take Milesight device for example, the resource path of main stream is "rtsp://IP:port/main" and secondary stream is "rtsp://IP:port/sub".

Channel	2
Channel Name	CAM2
User Name	admin
Password	•••••
Protocol	RTSP
Transport Protocol	UDP
Primary	rtsp://192.168.7.100/main
Secondary	rtsp://192.168.7.100/sub
Time Setting	Sync Time With NVR

• MSSP: You can add Milesight cameras which are in the same LAN with MSSP protocol.

Channel	2
Channel Name	CAM2
IP Address	192.168.7.101
Port	80
User Name	admin
Password	*****
Protocol	MSSP
Transport Protocol	UDP
Time Setting	Sync Time With NVR

Step2. Check the connection status.

After adding the IP channels, click Reference button on Camera Management interface, then

Connected appears under Status. If it doesn't appear, you need to check if the network is

connected or whether the user name or password is correct or not.

	Edit	Delete			Port		MAC	Firmware Version		
1	ď	Û	Connected	192.168.8.121	80	ONVIF	1CC31623683C	41.7.0.60-r14	MS-C5361-EPB	Milesight Technology Co.,Ltd.
2	Ø	10	Connected	192.168.8.135	80	ONVIE	1CC316211E78	41.7.0.60-r14	MS-C4482-PB	Milesight Technology Co.,Ltd.

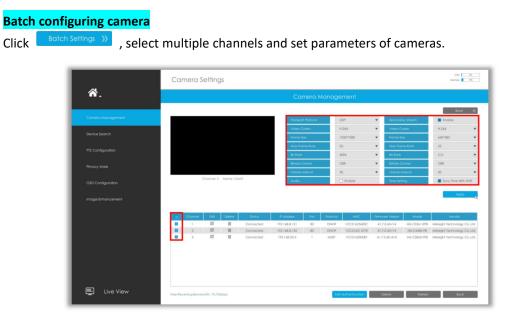
Step3. Configure camera. Configure one camera

After successfully adding the camera, click 🗹 to re-edit the channel info.

Channel	T
Channel Name	CAM1
IP Address	192.168.8.121
Port	80
User Name	admin
Password	•••••
Protocol	ONVIF
Transport Protocol	UDP
Time Setting	Sync Time With NVR

Select Parameters page to re-edit parameters of this channel . Click [OK] to save the configuration.

Settings		Parameters			
Channel Name	CAM1		Secondary Stream	Enable	
Video Codec	H.264	*	Video Codec	H.265	
Frame Size	3840*2160	*	Frame Size	640*480	,
Max Frame Rate	23	*	Max Frame Rate	25	,
Bit Rate	16384	*	Bit Rate	512	,
Bitrate Control	VBR	Ŧ	Bitrate Control	VBR	,
I-frame Interval	50	*	I-frame interval	50	,
Smart Stream	On	*	Smart Stream	Off	,
Level	3				
Audio	Enable				



Step4. Delete camera.

You can delete this channel by clicking $\begin{array}{c} IIII \end{array}$, or you can select multiple devices and then click

Channel	Edit	Delete	Status Connected	IP Address 192,168,8,121	Port 80	Protocol	MAC	Firmware Version	Model	Vendor
2	Ø	1	Connected	192.168.8.121	80	ONVIE	1CC31623683C 1CC316211E78	41.7.0.60-r14 41.7.0.60-r14	MS-C5361-EPB MS-C4482-P8	Milesight Technology CoLtd Milesight Technology CoLtd

Step5. Configure PoE Channel (Only for PoE NVR)

1. Connect Milesight camera to PoE port, it will detect the camera automatically.

2. If the camera's password is the same with NVR admin password, it will be successfully authenticated and be changed into the same network segment with internal NIC IPv4 address, then the camera will be connected successfully.

3. If the camera's password is different with NVR admin password, the PoE channel will show disconnect status. You need to input the camera's password by clicking to realize authentication (you can also multi-select the devices and then click this button). Then the camera will be changed into the same network segment with internal NIC IPv4 address and will be successfully connected. In next time, NVR will use the password you input to authenticate this camera when you re-plug it.



Edit A	Edit Authentication						
User Name	admin						
Password	•••••						
Note: Edit authentid	cation for selected cameras.						
ОК	Cancel						

3.5.2 Device Search

Select Protocol and NIC, then set the IP range, and click Search to quickly search the IP devices that support selected protocol at the same LAN with NVR.

						1	Device	e Search			
Protoco	al Al		▼ Sel	ect NIC A	1			▼ IP Range	192.168.7 .40	192.168.7 .112	Search
	No.	IP Address	IP Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
	1	192.168.7.71	ß	Active	80	MSSP	LAN	1CC316210C30	41.7.0.68-r1	MS-C3762-FIPB	Milesight
	2	192,168.7.76	Ø	Active	80	MSSP	LAN	1CC31621666C	41.7.0.67-r36	MS-C4472-FIPB	Milesight
	3	192.168.7.77	ß	Active	80	MSSP	LAN	1CC31621038E	40.7.0.68-a6	MS-C4473-PB	Milesight
	4	192.168.7.80	ß	Active	80	MSSP	LAN	1CC3162460F6	40.7.0.67-r14	MS-C2975-PB	Milesight
	5	192.168.7.82	ß		80	ONVIF	LAN	0387480A82A5			
	6	192.168.7.86	ß	Active	80	MSSP	LAN	1CC31623C84D	41.7.67.67-r39-sip3	WEB-C67V/D	IPCAM
	7	192.168.7.93	Ľ	Active	80	MSSP	LAN	1CC3162460DE	40.7.0.67-r39-sip3	MS-C2975-PB	Milesight
	8	192.168.7.100	ß	Active	80	MSSP	LAN	1CC3162000EF	41.7.0.68	MS-C2862-FP8	Milesight
	9	192.168.7.110	Ľ		80	ONVIF	LAN	303036344E00			
	10	192.168.7.111	ß	Active	80	MSSP	LAN	1CC31690815E	43.7.0.68-r1	MS-C9674-PB	Milesight

If the camera status shows Inactive, please select camera and click **Activate** to active it first before adding to NVR.

Besides, you can select channels and click

to **batch editing** their IP information.

	IP Edit
Start IP	192,168.7 .77
Subnet Mask	255.255.240.0
Gateway	192.168.8 .1
Port	80
DNS	8.8.8
User Name	admin
Password	
	2
	OK Cancel

3.5.3 PTZ Configuration

Advanced

📀 Milesight

Choose a channel and set the PTZ parameters. Besides, you can click Copy to copy the same configuration to other channels.



Note:

- 1. Settings for a PTZ camera must be configured before it can be used. Make sure that the PTZ and RS-485 of the NVR are connected properly.
- 2. The PTZ protocol and address of IP channel must be consistent with those of the PTZ decoder.

Configuration

[Preset]

Preset can be set to move your PTZ camera to a desired preset position. The preset position is the preparation for Patrol.

Step1. Use the PTZ direction key to rotate the position of preset. Then choose a preset number

and click \blacksquare to save a preset position.





Step2. Choose a preset number and click 🔳 to delete the preset position.

Step3. Choose a preset number and click 🕨 to check the preset position.

[Patrol]

The camera will patrol according to the preset positions. The total time and patrol speed of the path is variable.

	Camera Sett	ings						CPU B.
A.			PTZ Co	nfiguratio	ı			
	Configuration	Advanced						
Camera Management			Channel		3			•
Device Search			Preset	NO.	Play	Sove		Detete
			Preset	195	F	8		
P12 Configuration			Presot	196	•	8		8
			Preset	197	Þ	8		
Privacy Mask			Preset	178	+	H		
OSD Configuration	Ch	annel: 1 Nome: CAM1	Patrol Path1					
Image Enhancement			Key Point	Preset	Scon Time	Scan Speed	Edit	Dolete 🚔
Image Enhancement			3	1	15	30	ß	
		0	4		15	30	ß	
		• •	5	1	15	30	ß	1
		V 4						
	S		* *					► ■ 11
			Pattern			5		
			Pattern1					*
								/▶■Ⅱ
		• • •						
Live View								
							- 1	Bock

Step1. Select a path. Up to 8 paths could be set.

Step2. Click is to add preset position (up to 48 positions could be added). Set the parameters of preset positions, including preset position number, scan time and scan speed,

then click

* .									
	Configuration Adv	anced							
Camera Management			Channel						٠
			Preset						
Device Search			Preset N	a	Роу	Sove		Delete	A
PTZ Configuration		Add Key F	Point	5	+	8	_	1	
		Key Points		6	F	8		1	-
Privacy Mask						8		1	
		Preset Point 1 Scon Time 15	\$,				*
OSD Configuration	Channel: 1 Nome	Scon Time 15 Scon Speed 30	\$						
		acon speed	*	Preset	Scon Time	Scan Speed	EdP	Delete	
Image Enhancement		OK.	Cancel	rtesel	Scan Time	Scon Speed	ear ear	10 Denote	-1
			Cancel		15	30	ß		al i
	 ● ● 		5	1	15	30	12		ъ
									١Ņ
	s		* *					► #	10
	- * +		Pottern						
			Pattern 1						*
	- 🗗 +							/ F #	
	- 0 +								

Step3. Select a preset position, click ■ and selectYesin the dialog box to delete it.Step4. Click ▶ to preview the path patrol. Click ■ to stop.

Step5. Click i and select in the dialog box to delete all preset positions of the path patrol.

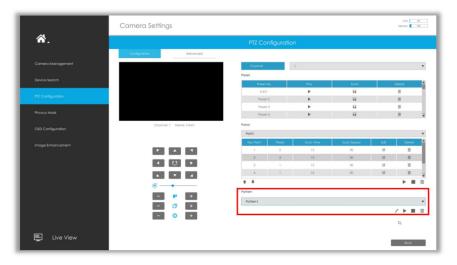
Note:

- 1. The preset positions decide the patrol path, which will run according to numerical order of the preset positions.
- 2. Scan time is how long the patrol stays on the preset position.
- 3. Scan speed is the rotate speed of speed dome from one preset position to the next.

[Pattern]

The camera will patrol back and forth in a constant speed. There is only one start point and one end point.

Step1. Select a pattern and click \checkmark . Up to 4 patterns could be set.



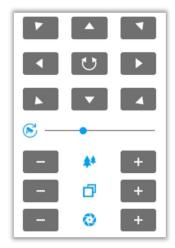
Step2. Drag the mouse or click 8 direction keys by mouse to rotate PTZ.



Step3. Click 📕 to save the PTZ movement patterns.

Step4. Click 🕨 to preview the pattern. Click 🔳 to stop.

[PTZ Operation]



Icons	Descriptions	lcons	Descriptions
	PTZ direction control and auto scan button		PTZ speed
+	Zoom +, Focus +, Iris +	T	Zoom -, Focus -, Iris -
*	Zoom	đ	Focus
0	Iris		

3.5.4 Privacy Mask

Milesight NVR supports to set privacy mask. It is used to cover some privacy area which is not proper to appear on monitor.

	Camera Settings
☆ .	Privacy Mask
Comera Management	
Device Search	
PTZ Configuration	
Physicy Mask	Channel: 1 Nome: CAM1 Enoble Class Al
OSD Configuration	Tipe Weble •
Image Enhancement	
Live View	Copy Apply Back

You can add a privacy mask by following steps:

Step1. Select channel and enable privacy mask.

Step2. Set the privacy mask type and drag the mouse to select the area which is privacy on the live window. You can add 4 areas at most.

Step3. Copy the privacy area to the other channels by clicking the "^{Copy}" button on the bottom of the windows.

Step4. Select " Apply " to save the settings.

3.5.5 OSD configuration

	Camera Settings				CPU 45 Aeropy 05
* .		OSE	Configuration		
		9	2 3 4 3	6 7	8
Privacy Mask	Channel: 1 No	ome: CAMI			
	Video Sheam	AI Shearre	*		
Image Enhancement	Show Video Title	Enoble	Show Timestoring	Enable	
	Video 7/9	Network Cornera	Date Polition	Top-Right	*
	The Position	Top-Left	Tate Format	DD/MM/YYYY	

You can set OSD (On Screen Display) on NVR, and the OSD will be synchronized to Camera.

Step1. Select channel.

Step2. Select Video Stream, including All Streams, Primary Stream and Secondary Stream. Step3. Enable video title and timestamp.

Video Stream	All Streams 👻		
Show Video Tille	Enable	Show Timestamp	Enable
Video Tille	Network Camera	Date Position	Top-Right 💌
Title Position	Top-Left 💌	Date Format	DD/MM/YYYY

Show Video Title: Enable it and the video title will be shown on screen.

Title Position: Set the position for the video title: Top-Left or Top-Right. Date Position: Set the position for the date: Top-Left, Top-Right, Bottom-Left or Bottom-Right. Date Format: Set format for date: YYYY-MM-DD, MM/DD/YY or DD/MM/YYYY. Step4. Copy the OSD settings to the other channels by clicking the "Copy" button on the bottom of the windows.

Step5. Select "

Apply " to save the settings.



3.5.6 Image Enhancement



You can set Image Enhancement on NVR, and the configuration will be synchronized to Camera.

Step1. Select channel.

Step2. Set the configuration.

Day/Night Mode: Set the Day/Night mode for the channel.

Day to Night Value: Set the Minimum illumination intensity to trigger Night Mode.

Night to Day Value: Set the Maximum illumination intensity to trigger Day Mode.

IR Light Sensor Value: Shows the current value of IR light sensor.

Power Line Frequency: 50Hz and 60Hz are available. Corridor Mode: Set corridor mode. Image Rotation: Set image rotation. IR Balance Mode: Turn on to avoid IR overexposure. White Balance: Choose a white balance mode for the channel. Digital Anti-fog Mode: Set the Anti-fog function on and off. WDR/HLC: Click to configure Wide Dynamic Range or High Light Control. Step3. Copy the image settings to other channels by clicking on the bottom of the windows. Step4. Select to save the settings.

3.6 Storage

Preparation for Record

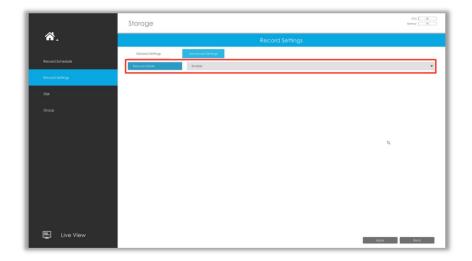
Step1. Ensure your NVR has been installed and the HDD has been initialized, please check it on "Storage" -> "Disk" interface.

	Storage				CPU (A)			
* .	Disk							
	Port Vendor 1 ST1000/x800-1831#2	Status Totar(08) Normal 931	Nex(G8) Noc 163 RJ		p Edit Delete			
Dik								
Group								
	Total Capacity(Cit) 931 Avalable Capacity(Cit) 163							
	Available Copacity(Gil) 163							
Live View				Robert	Malas Back			

Step2. Ensure that the HDD has sufficient storage space.

Enable [Recycle Mode] in the case of insufficient capacity of storage device on Storage -> Disk Management -> Advanced Settings interface .





3.6.1 Record Schedule

Step1. Select channel.

Step2. Set record schedule.

Method 1: Click Edit to edit schedule. Select Day, Record Type and Time to finish editing.

* .			_	
		Record Schedule		
Record Schedule	 Doy.	Sunday	*	Batch Settings - 33
	Record Type	Continuous	• 4 5	6 7 8
		Time		
	Time1	00.00-00.00		
	Time2	00:00-00:00		
	Treat	00:00-00:00		
	Tre4	00:00-00:00		
	Trred	00.00.00.00		
	Timed	00:00-00:00		
	Time7	00:00-00:00		
	Tme8	00:00-00:00	22 24	Erose
	Time#	00:00-00:00		Continuous
	Time10	00.00-00:00		Event
	Time11	00.00-00.00		Event
	Time12	00:00-00:00		
				Motion
	Сору	OK Cancel Apply		

Method 2: Select operation type: Continuous, Event (Motion and Alarm) or Erase. Then drag a square in the time table to set record effective time. It is convenient for you to set or clear all

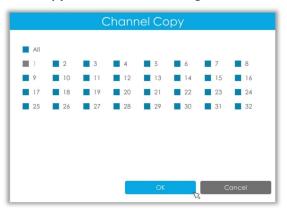
corresponding schedule by clicking Select All or Clear All

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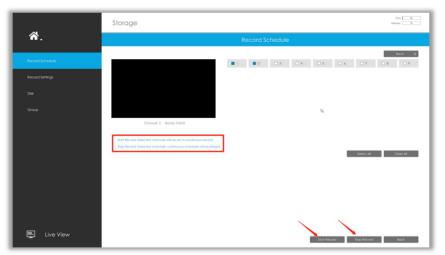


Step3. Click Copy to copy the same record configuration to other channels.



Batch Settings

Step2. Select channels and click Start Record to start always record. Step3. Select channels and click Stop Record to stop record.



3.6.2 Record Settings

General Settings

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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 only NVR model ends with letter H 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. Primary+Secondary Stream is available for NVR model ends with T only.

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

		Depend Sel	Marine	
		Record Set	lings	
General Settings	Advanced Settings			
		(and a second		
		Channel		
		Post Record	Disable	
		Audio Record	Enable	
		Record Stream Type	Primary Stream	
		Video Due Time	Unlimit	
		Picture Due Time	Unlimit	

Advanced Settings

Enable or disable Recycle Mode for all storage device.

Storage			CPU 25. Memory 105.
	Re	cord Settings	
General Settings	Advanced Settings	5	
Recycle Mode	Enable Ditable Enable	Ц.	*

3.6.3 Disk

	Sto	rage									CPU 6.
* .		Disk									
		Port	Vendor	Status	total(Git)	free(GB)	Property	Type	Group	Edit	Defete
		1	ST1000VX000-183162 Hitschi HE J421080G95A00	Normal	931	739	R/W R/W	LOCAL		R	
		4	Network Disk1	Normal	74 74	73	R/W R/W	NAS		ß	
	100	Copocity	(CK) 1079								
	Ave	lobie Copi	509y(68) 884								
											53
Live View						_	_				
						Ad	d	Rotein	hitale		Bock

Network Disk

NAS (Network-Attached Storage) should be available within the network and properly configured to store the recorded files and snapshots. You can click and then input corresponded NAS information to add NAS.

Note:

- ① NAS with NFS format is the only type for network disk adding.
- ② It's recommended to use Hard Disk rather than Network Disk.

	Storage									CPU IS Memory 145
* .		Disk								
	Port	Vendor WDC WD25038EVT-08A23T1	status Normal	Totol(C8) 232	Free(G8) 231	Property R/W	Type	Group	t dit D	Delete
					231	#/W	LOCAL			
Record Settings			Add Netwo	rk Disk		_				
		Network Disk Network D	Sak1			*				
		P Address								
		Directory No.	Dis	ctory						
	Total Cape									
	Available C									
			5	aach Of	Cancel					
						R				
Live View										
					Ad	t in the second s	Retresh	Initial		Back

Select a storage device and click to initialize it, edit the Property by clicking . After that the storage device will be ready.



HDD Type: RAID means RAID, NAS means network attached storage while LOCAL means normal disk mode.

3.6.4 RAID

	Storage					CPU JB. Memoiry its		
☆ .			RAID					
Record Schedule	RAID Mode	Encole						
	Physical Disk							
Record Settings		Vendor \$11000VX000-165162	Status Normal	Copocity 931 GB	Type	Hot Spare		
Disk	a 4	Hitochi HEJ421080G45A00	Normal	74 G8	LOCAL			
UN								
Group								
store				52	Quick Cre	ate Create		
	Array			**				
	No. Nome	Physical Dok RAID Capacity Statu	s Level HotSpo	e Rebuild Dole	ite	tak		
Live View								
					Apply	Back		

RAID (Redundant Array of Independent Disks) is a storage technology that combines multiple disk drive components into a logical unit. A RAID setup stores data over multiple hard disk drives to provide enough redundancy so that data can be recovered if one disk fails.



	RAID 0 RAID 1 RAID 1		
		No. of hard disk drives required	
RAID 10		4,6,8	n/2
RAID 6	A, A1 A2 Ba Ba C1 C2 C2 Da Da D1 D2	≥4	n-2
RAID 5	A 1 B 2 C 2 D 0 D 0 A 2 B 2 C 2 C 2 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0	≥3	n-1
RAID 1	$\begin{array}{c} A1\\ A2\\ A3\\ A4 \end{array} = \begin{array}{c} A1\\ A2\\ A3\\ A4 \end{array}$	2	n/2
RAID 0	A0 A3 A6 A7 A10 A2 A5 A5 A11	≥2	n

Step1. Enable RAID. NVR will reboot after enabling.

Step2. Select HDD and click Create or Quick Create to create a new array. New array will be available after a while.

	Storage			CPU IS Menoy IS
۴ .			RAID	
	RAD Mode Physical Disk	Enoble		
	Part	Vendor \$7100092000-155142	Status Capacity Normal 931 Gil	Type Hot Spore
	4 2AD1	Create RAID	74 G8	LOCAL CD
	RAD 1 HOD P	RAD 0	•	
	RAD			
	Array			Quick Create Create
	NG. D	Create	Cancel Rebuild De	te Tok
Live View				Apply Bock

Hot Spare: A disk can be used as the hot spare for any array created in the system. Rebuild: When the array is in Degraded status, the device can start rebuilding the array automatically with the hot spare disk to ensure the high security and reliability of the data. Note:

- 1. RAID only available for 4K H.265 NVR 7000/8000 Series and 4K H.265 PoE NVR 7000 Series.
- 2. RAID capacity can not larger than 16TB.
- 3. Quick Create only for RAID5.



3.6.5 Group

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You can divide disks into different groups, which is able to storage different channels' recorded files into different groups.

	Storage			_			_			CPU 6
* .					Group	1				
	Group Mode	E fnoble								
	Group Channel	1 AL		*						
			2	B 3	a 4	5		7		
Disk										
Group										
Live View									-	
								_	Apply Q	bock.

Step 1. Enable Group.



Step 2. Switch to Disk interface. Click and set the group number of every disk.

Note:

You can add 16 groups at most.

	Storage
* .	Disk
	Post Vendu Stylus flags(c)[] Precipity Type Onico Edit Defete I 4 WCC M030081/Y04/2011 Nemidi 232 43 K/W LOCAL 1 Image: Compared com
	HDD Edit
Dix	
RAID	HCD Property
	Totel Capoch/Cell 10 Available Capoch/Cell 10
	Carolar Carolar
Live View	
	Add Retruit Initialize Back

Step 3. Select group and channels which you want to record into this group.

Group Mode	Enable							
Group	1	*						
Channel								
	. .	2	3	4	5	6	7	8
	9	10	. 11	12	13	14	15	16
	17	18	19	20	21	22	23	24
	25	26	27	28	29	30	31	32
	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48
	49	50	51	52	53	54	55	56
	57	58	59	60	61	62	63	64

3.7 Event

3.7.1 Motion Detection

Nutlo Delaction I 2 3 4 5 7 5 Vector 1 2 3 4 5 4 5 5 5 Adm Delaction 1 2 3 4 5 <		Event Settings							Me	CPU IL Nov 15
Mode Devices P <t< th=""><th>*.</th><th></th><th>M</th><th>otion Det</th><th>ection</th><th></th><th></th><th></th><th></th><th></th></t<>	* .		M	otion Det	ection					
Yone Loa Y 0 10 <th< th=""><th></th><th></th><th>- 4</th><th>2</th><th>3</th><th>4</th><th>3</th><th>6</th><th>7</th><th>8</th></th<>			- 4	2	3	4	3	6	7	8
Solo Liou 17 18 19 20 21 22 23 24 In Might 13 24 27 38 27 38 30			9	10	-11	12	12	14	15	16
bits in part 33 34 35 36 37 38 39 40 bits in part Additione Ad			17	18	19	20	21	22	23	24
Name Output All All <t< td=""><td></td><td></td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td></t<>			25	26	27	28	29	30	31	32
Identify Council 1 have Could eP BO S1 S2 S3 S4 S5 S5 <th< td=""><td></td><td></td><td>53</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></th<>			53	34	35	36	37	38	39	40
Openel 1 Novie CM1 AP B0 S1 S3 S4 S3 S4 scopbon 37 38 38 40 41 42 43 44 winter Seatcher Minter Seatcher Immediate	Joren Oudrud		41	42	43	44	45	45	47	48
not Event Motor Delection Territoria Caso All Ser Hallan Region Caso All Seraliding Territoria Caso All Seraliding Seraliding S Seraliding Seraliding Sera		Channel: 1 Name: CAM1	49	50	51	52	53	54	55	56
Set Koton krigon Set Al Coo Al			57	58	59	60	61	62	63	64
Sentiary Electronic Sector Sec			Motion Date	ction						
Effective Tree			Set Motion R	egion		- 50	140	Ceor All		
								•		-
Action 8dP										
			Action				G#			
	Live View					_			_	
E Live View							Copy	Apply		Back

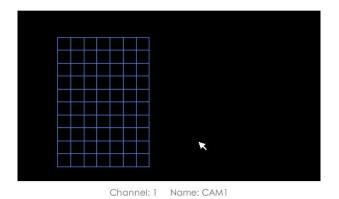
Step 1. Enable Motion Detection.

Select channel , Sensitivity and click 📮 to enable Motion Detection.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
Motion Dete	ection						
Set Motion F	Region		Se	t All	Clear All		
Sensitivity					•		5
Effective Tim	ne		E	dit			
Action			E	dit			

Step2: Set the area for triggering motion detection.

You can set the area by dragging a square on live view window.



Note:

The motion detection area will be synchronized to Camera.

 Step 3. Set Effective Time of motion detection by clicking
 Edit

 It will be more convenient by clicking
 Select All
 or

 Settings.
 Clear All
 to set or clear all time



Step 4. Set Action for motion detection alarm by clicking

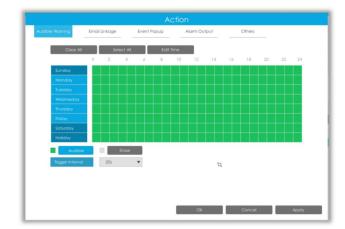
Audible Warning: NVR will trigger an audible beep when motion is detected.

The user can set effective schedule as following two ways:

① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

2 Click Edit Time to edit record effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.





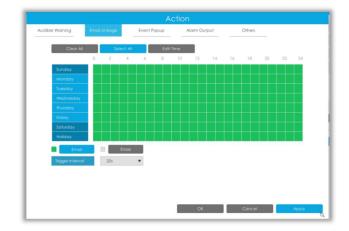
Email Linkage: NVR will send an email to the address you set before.

The user can set effective schedule as following two ways:

① Select the operation type, Email and Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking Select All or Clear All to set or clear all time settings.

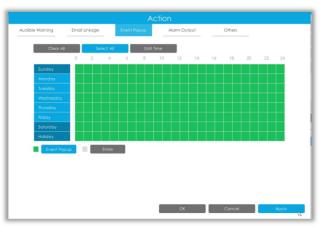
2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.

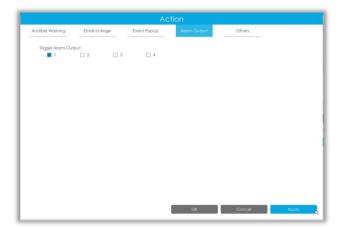


Event Popup: Trigger alarm screen popup to full screen when alarm is triggered.

You can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.



Alarm Output: Trigger alarm output when alarm is triggered.

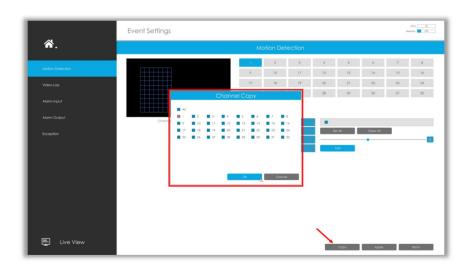


Others: Trigger other channels record when alarm is triggered.





to copy the same configuration to other channels.



3.7.2 Video Loss

Step 1. Select a channel.

	Event Settings							Ma	CPU 15
* .			Video L	.OSS					
		- 1 - 2	2	3	4	5	6	7	8
Video Loss		17	18	11	20	21	22	23	24
Alarm Input		25	26	27	28	29	30	31	32
	Channel: 1 Nome: CAM1	Action			_	(d)			
	and the first sector	Action				(3)		5	
Live View							Сору		Back

Step 2. Set Action for video loss by clicking

Audible Warning: NVR will trigger an audible beep when motion is detected.

The user can set effective schedule as following two ways:

① Select the operation type: Email or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.

					A	ctior	1						
Audible Warning		Email	Linkage		A	arm Outp	ut						
Clear All		54	elect All		Edil	Time							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													
Audible		- 10	Erase										
Trigger Interval		205		Ŧ									
							OK			Cancel			Apply

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

User can set effective schedule as following two ways:

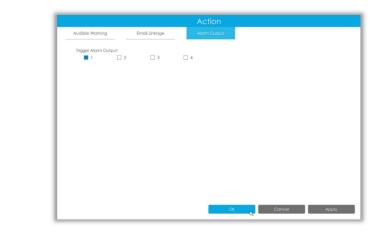
① Select the operation type: Email or Erase. Then drag a rectangle on the time table for time Clear All to set or clear all setting, it will be more convenient by clicking select All or time settings.

2 Click Edit Time to edit record effective time manually.

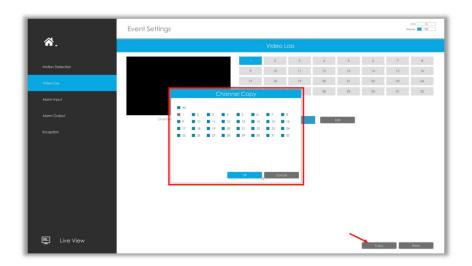
Trigger Interval: The effective interval between two actions when event triggered.

udible Warning		Email	Linkage		Ala	rm Outp	ut						
Clear All		Se	lect All		Edit 1	lime							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													
Email		- 10	Erase										
Trigger Interval		205		*									

Alarm Output: Trigger alarm output when alarm is triggered.



Step 3. Click **Copy** and **to copy the same configuration to other channels.**



3.7.3 Alarm Input

Alarm Input function is supported by MS-N5008-UT, MS-N5016-UT, MS-N7016-UH, MS-N7032-UH, MS-N8032-UH, MS-N8064-UH, MS-N5008-UPT, MS-N5016-UPT, MS-N7016-UPH and MS-N7032-UPH.

Step 1. Set Alarm input Number, Alarm Name and Alarm Type.



Alarm Input No.: The channel which has input signal.

Alarm Name: Set a name for the alarm.

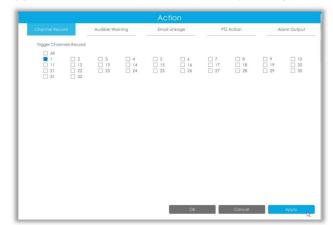
Alarm Type: Choose NO or NC alarm type for the alarm.

Step 2. Set action for alarm input by clicking Edit

Channel Record: Start recording when alarm is triggered.

🗿 Milesight

Trigger Channels Record: Trigger selected channels to record when alarm is triggered. **Copy to Channels:** Copy record schedule to other channels by clicking



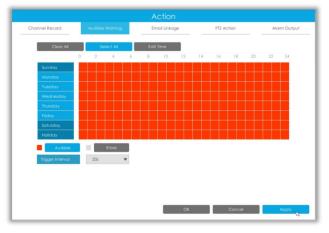
Audible Warning: NVR will trigger an audible beep when alarm is triggered.

User can set effective schedule as following two ways:

Select the operation type: Audible or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking <u>select All</u> or <u>Clear All</u> to set or clear all time settings.

2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



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

User can set effective schedule as following two ways:

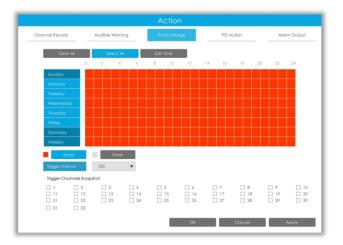
① Select the operation type: Email or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking Select All or Clear All to set or clear all time settings.

2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.

Trigger Channels Snapshot: The snapshot of selected channels will be sent when alarm is triggered.

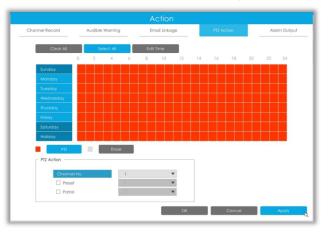
📀 Milesight



PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** User can set effective schedule as following two ways:

① Select the operation type: Email or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking Select All or Clear All to set or clear to set or clear all time settings.

2 Click Edit Time to edit record effective time manually.



Alarm Output: Trigger alarm output when alarm is triggered.

		Action		
Channel Record	Audible Warning	Email Linkage	PTZ Action	Alorm Output
Trigger Alarm Output				
1 2	3	4		
		ОК	Cancel	Apply 💫

Step 3: Copy alarm input settings to other input interface by clicking





3.7.4 Alarm Output

Alarm Output function is supported by MS-N5008-UT, MS-N5016-UT, MS-N7016-UH, MS-N7032-UH, MS-N8032-UH, MS-N8064-UH, MS-N5008-UPT, MS-N5016-UPT, MS-N7016-UPH and MS-N7032-UPH.

	Event Settings	CPU B.
* .	Alarm Output	
	Alam Dugul No. 1 2 3 4	
	Apara Norse 11 Apara Type NO	
	Doub Trite	•
Alorm Output	Note Algem Name will not be cipied into other channels. Ciser Al Sever Al Cot	
Exception		2
	Verse set of the set o	
	None Soldary None	
	E Marriell E	
Live View	Saiv	Apply 🔭 Bock



Alarm Output No.	2 3 4
Alarm Name	n
Alarm Type	NO
Dwell Time	51
Note:Alarm Name will not be copied into other cha	inels.

Alarm Output No.: The channel which will output the alarm signal.

Alarm Name: Set a name for the alarm.

Alarm Type: Choose NO or NC alarm type for the alarm.

Dwell Time: The output time for alarm. If the output alarm lasts too long, you can select the Manually Clear to stop it.

Step 2. Select effective Time for alarm output.

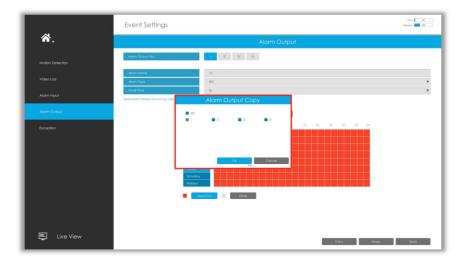
The user can set effective schedule as following two ways:

① Select the operation type: AlarmOut or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking <u>Select All</u> or <u>Clear All</u> to set or clear all time settings.

2 Click Edit Time to edit record effective time manually.

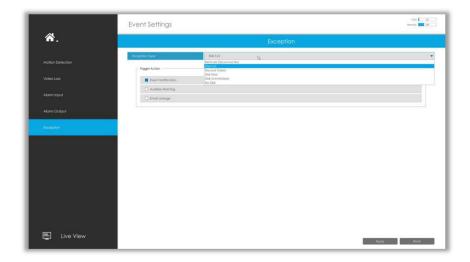






3.7.5 Exception

Step1. Select Exception Type.



Network Disconnected: Loss of network.

Disk Full: Disk full. It usually happens when recycle Mode is OFF.

Record Failed: Recording fails, including HDD Failed, HDD Full and so on.

Disk Error: Failed to recognize HDD.

Disk Uninitialized: Disk is uninitialized.

No Disk: There is no storage device.

Step2. Select normal linkage includes Event Notification, Audible Warning and Email Linkage.

Event Notification: You will got a notification in Live View if an alarm is triggered.

Audible Warning: NVR will trigger an audible beep.

Email Linkage: An alarm Email will be sent if an alarm is triggered.

igger Action			
Event Notification			
Audible Warning			
Email Linkage			

3.7.6 Smart Event

Smart Event uses Milesight Video Content Analysis technology which is applied in a wide range of domains including entertainment, health-care, retail, automotive, transport, home automation, safety and security. Milesight VCA provides advanced, accurate smart video analysis for Milesight network cameras. It enhances the performance of network cameras through 10 detection modes which are divided into basic function and advanced function, enabling the comprehensive surveillance function and quicker response of cameras to different monitoring scenes.

Note:

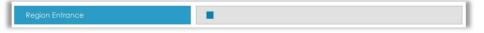
Please input license of selected channel in Settings page to activate Smart Event first.

Region Entrance

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

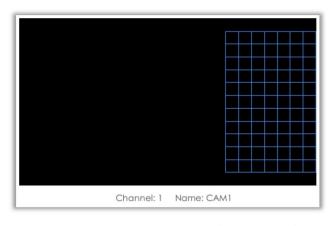
* .										
	Region Entrance	Region Exiting	Advanced Motion	Detection	Tomper D	election	Une C	posing	Lo	itering
	Human Detection	People Counting	Object Left/Remo	bev	Settings					
				2	3	4	5	4	7	8
			9	10	11	12	13	14	15	16
			17	18	19	20	21	22	23	24
			25	26	27	28	29	30	31	32
Smart Event			Region Entro Set Region	nce		Sat.	AL	Ceor Al		
			Effective Tm	8		Ed	u			
			Action			Ed	et			

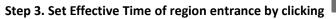




Step 2. Set entrance detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking Select All and Clear All





NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.



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Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking <u>Select All</u> or <u>Clear All</u> to set or clear all time settings.

2 Click Edit Time to edit record effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



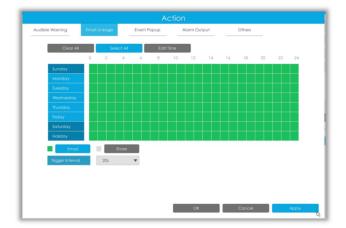
Email Linkage: NVR will send an email to the address you set before.

The user can set effective schedule as following two ways:

① Select the operation type, Email and Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



Event Popup: Trigger alarm screen popup to full screen when alarm is triggered.

You can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.



Audible Warning	Email	Linkage		Event	Popup		Alarm Out	tput		Others			
Clear All		S	elect All		Edit	Time							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													
Event Pop	ip 🕴		Erase										
													Apply 😯

Alarm Output: Trigger alarm output when alarm is triggered.

			Ac	tion		
udible Warning	Email Lin	kage	Event Popup	Alarm Output	Others	
Trigger Alarm Ou	tput					
1		3	4			
				OK	Cancel	Apply

Others: Trigger other channels record when alarm is triggered.

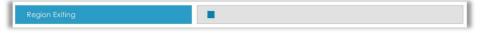
			Act					
Audible Warning	Email Linka	ge Even	Event Popup		Alarm Output			
Trigger Channe	els Record							
All 1 21 31	2 [] 12 [] 22 [] 32	13 🗌 14 23 🗌 24	□ 5 □ 15 □ 25	□ 16 □ 26	□ 7 □ 17 □ 27	□ 8 □ 18 □ 28	9 19 29	10 20 30
Note: This page's	s configuration will r	of be copied into	o other channe	ets.				
				OK	_	Cancel		Apply
				0		Cancer		Apply 💦

Region Exiting

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

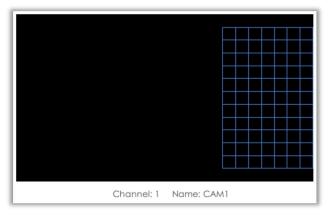
☆.										
	Region Entrance	Region Extens	Advanced Motion		Tamper D	dection	line (Drossing	10	Bering
	Human Detection	People Counting	Object Left/Remo		Settings			round)		interior of the second s
				10	11	12	13	14	15	0
			17	18	19	20	21	22	23	24
			25	26	27	28	- 29	30	31	32
Smart Event	Chann	el: 1 Name: CAM1	_							
Sman Event			Region Exilin Set Region	0				Ceor Al		
			Effective Tro					Class Al		
			Action			E o				

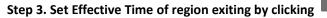




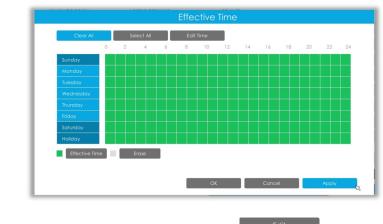
Step 2. Set exit detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking set All and clear All.





NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.



Step 4. Set Action for region exiting alarm by clicking



Audible Warning: NVR will trigger an audible beep when region exiting is detected.

The user can set effective schedule as following two ways:

① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking Select All or Clear All to set or clear all time settings.

2 Click Edit Time to edit record effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



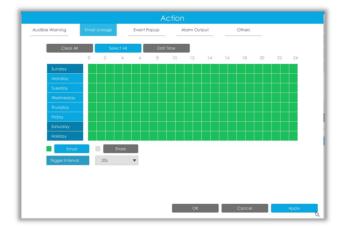
Email Linkage: NVR will send an email to the address you set before.

The user can set effective schedule as following two ways:

① Select the operation type, Email and Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking Select All or Clear All to set or clear all time settings.

2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



Event Popup: Trigger alarm screen popup to full screen when alarm is triggered.

You can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.



Audible Warning	Email	Linkage		Event	Popup	,	Narm Ou	tput		Others			
Clear All		St	elect All		Edit	Time							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thuisday													
Friday													
Saturday													
Holiday													
Event Pop	up		Erase										
							1000	_			_	_	
							OK			Cancel	-		Apply

Alarm Output: Trigger alarm output when alarm is triggered.

			Ac	tion		
Audible Warning	Email Un	kage	Event Popup	Alarm Output	Others	
Trigger Alarm Ou	tput					
I 1		3	4			
				ОК	Cancel	Apply

Others: Trigger other channels record when alarm is triggered.

					tion				
Audible Warning	Ema	il Linkage	Event	Popup	Alarm O	tuqtu	Others		
Trigger Channe	els Record								
All 1 11 21 31	□ 22 □ 32	23	□ 14 □ 24	□ 15 □ 25	□ 16 □ 26		8 18 28	9 19 29	10 20 30
31 Note: This page's		on will not be	copied into	other channe	els.				
						_	0	_	
					OK		Cancel		Apply 🙀

Advanced Motion Detection

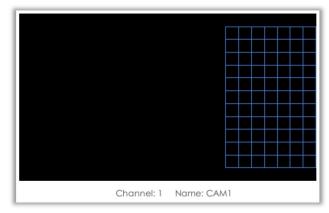
Different from traditional motion detection, Milesight advanced motion detection can filter out "noise" such as lighting changes, natural tree movements, etc. When an object moves in the selected area, it will trigger alarm.

Step 1. Select channel and enable Advanced Motion Detection.

* .										
	Region Entrance	Region Exiling	Advanced Matter	Difector	Tomper De	election	Une C	losing	LO	itering
	Human Defection	People Counting	Object Left/Rem	oved	Settings					
			1.00	2	3	4	5	6	7	8
				10	11	12	13	14	15	. 16
			17	18	19	20	21	22	23	24
Alarm Output			25	26	27	28	29	30	31	32
Smart Event			Advanced Set Region	Motion Detectio	0	541		Ceor Al		
			Sensitivity			_			•••	-
			Effective Tin			Ed				
			Action			Ed				

Step 2. Set advanced motion detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking set All and clear All.



Step 3. Set Sensitivity.

The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.



NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.





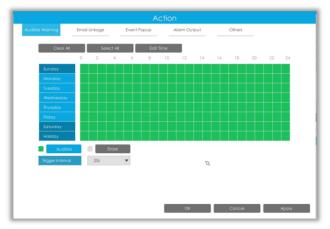
Audible Warning: NVR will trigger an audible beep when advanced motion is detected.

The user can set effective schedule as following two ways:

① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking <u>Select All</u> or <u>Clear All</u> to set or clear all time settings.

2 Click Edit Time to edit record effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



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

The user can set effective schedule as following two ways:

① Select the operation type, Email and Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.

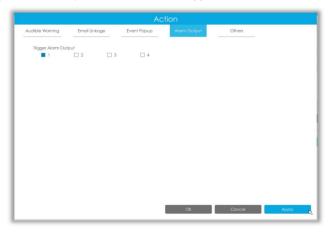
					A	ctior							
Audible Warning	Emai	Linkage		Event P	opup)	Alarm Out	tput		Others			
Clear All		Se	lect All		Edit	Time							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													
Email		- 60	Erase										
Trigger Interval		20s	6	*									
							OK			Cancel			Apply

Event Popup: Trigger alarm screen popup to full screen when alarm is triggered.

You can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

					1	Actior							
Audible Warning	Email	Linkage		Event	Popup		Narm Ou	tput	_	Others			
Clear All		Se	lect All		Ed	it Time							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday												11	
Monday													
Tuesday													
Wednesday													
Thuisday													
Friday													
Saturday													
Holiday													
Event Pop	up		Erase										
							ОК			Cancel			Apply
													1

Alarm Output: Trigger alarm output when alarm is triggered.



Others: Trigger other channels record when alarm is triggered.



Tamper Detection

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

Step 1. Select channel and enable Tamper Detection.

	Event Settings									CPU II.
* .										
	Region Enfrance	Region Exiling	Advanced Motion	Detection	Tomper D	election	Une (Dosing	Lo	itering
	Human Detection	People Counting	Object Left/Rem	oved	Settings					
				2	3	4	5	4	7	8
				10	11	12	13	14	15	16
			17	18	19	20	21	22	23	24
			25	26	27	28	29	30	31	32
Smart Event	Chann	ek I Nome: CAMI	Tamper Det Sensitivity	ecton						
			Effective Ter	e.		Ed				
			Action			10				
Live View										
								Appl		Bock

Step 2. Set Sensitivity.

The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.



NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.



Step 4. Set Action for tamper detection alarm by clicking

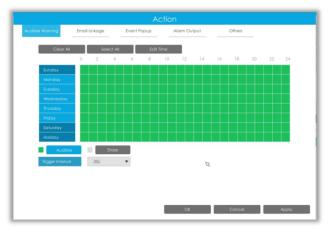
Audible Warning: NVR will trigger an audible beep when tamper is detected.

The user can set effective schedule as following two ways:

① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking Select All or Clear All to set or clear all time settings.

2 Click Edit Time to edit record effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



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

The user can set effective schedule as following two ways:

① Select the operation type, Email and Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.

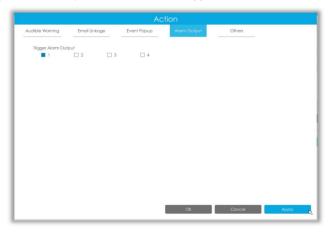
					A	ctior							
Audible Warning	Emai	Linkage		Event P	opup)	Alarm Out	tput		Others			
Clear All		Se	lect All		Edit	Time							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													
Email		- 60	Erase										
Trigger Interval		20s	6	*									
							OK			Cancel			Apply

Event Popup: Trigger alarm screen popup to full screen when alarm is triggered.

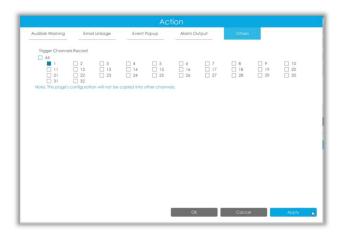
You can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

						Action							
Audible Warning	Email	Linkage		Event	Popup		Alarm Ou	tput		Others			
Clear All		Se	lect All		Ed	it Time							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													
Event Pop	up		Erase										
							ОК	_		Cancel			Apply
							- OK			CONCEN			(pible)

Alarm Output: Trigger alarm output when alarm is triggered.



Others: Trigger other channels record when alarm is triggered.

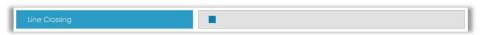


Line Crossing

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

* .										
	Region Entrance	Region Exiling	Advanced Motion	Detection	Tomper D	election	098	boikig .	Lo	leting
	Human Detection	People Counting	Object Left/Remo	wed	Settings					
				2	3	4	5	4	7	8
			9	10	11	12	13	14	15	14
			17	18	19	20	21	22	23	24
			25	26	27	28	29	30	31	32
	Charme	et 1 Name: CAM1								
			Une Crossing	1						
			une			3				
			Direction			A->6				3
			Drow Line			Dro	in in	Ceor		
			Effective Tim	•		Ed	ir i			
			Action			Ed	ia 👘			

Step 1. Select channel and enable Line Crossing.



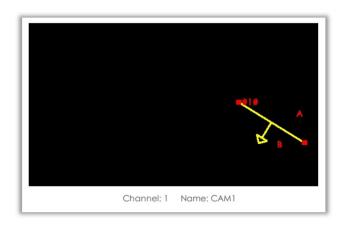
Step 2. Choose detection line number and define its direction.

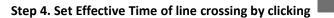
It allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm. " $A \rightarrow B$ " means when there is any object crossing the line from the "A" side to the "B" side, the alarm will be triggered. " $B \rightarrow A$ " vice versa. " $A \leftrightarrow B$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

Line	1	•
Direction	A->B	•

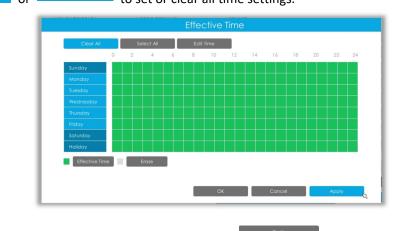
Step 3. Draw detection lines.

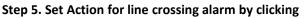
📀 Milesight





NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.





Audible Warning: NVR will trigger an audible beep when line crossing is detected.

The user can set effective schedule as following two ways:

① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

2 Click Edit Time to edit record effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.

lible Warning	Email	Linkage		Event P	0000		Alarm Ou	tout		Others			
incle maining	LITION	unkuge		Lydiniy	opop		Addini OU	ipoi		Omers			
Clear All		So	lect All		Edit	Time							
	0	2	4	6	8	10	12	1.4	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													
Audible		- 60	Erase										
Trigger Interval		20s		*				13					
								10					

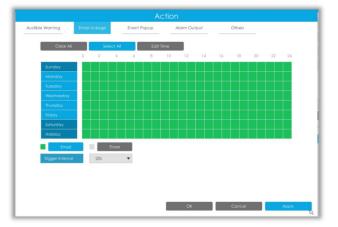
Email Linkage: NVR will send an email to the address you set before.

The user can set effective schedule as following two ways:

(1) Select the operation type, Email and Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

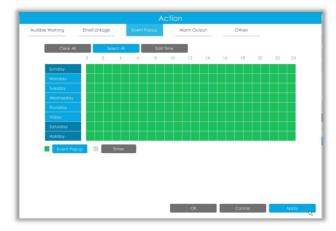
2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



Event Popup: Trigger alarm screen popup to full screen when alarm is triggered.

You can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.



Alarm Output: Trigger alarm output when alarm is triggered.

			Ac	ction		
Audible Warning	Email Lin	kage	Event Popup	Alarm Output	Others	
Trigger Alarm Ou						
• 1	2	3	4			
				ОК	Cancel	Apply

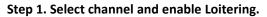
Others: Trigger other channels record when alarm is triggered.

				Acti						
Audible Warning	Email Linka	ige	Event Popu	qu	Alarm Out	tput	Others			
Trigger Channe	is Record									
All 1 11 21 31	□ 12 □ □ 22 □ □ 32	13 E 23 E] 14 [] 24 [5 15 25	□ 6 □ 16 □ 26	□ 7 □ 17 □ 27	□ 8 □ 18 □ 28	9 19 29	10 20 30	
Note: This page's	configuration will	not be copi	ed into other	channels.						
					ОК		Cancel		Apply	
				_				_		

Loitering

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

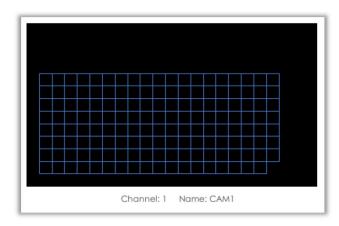
* .										
	Region Enfrance	Region Exiling	Advanced Mation	Detection	famper D	election	Line (losing	-10	nerrig
	Human Detection	People Counting	Object Left/Rem	oved	Setting					
			1.00	2	3	4	5	4	7	8
				10	0.	12	13	14	15	16
			17	18	19	20	21	22	23	24
Alarm Output			25	26	27	28	- 29	30	31	32
			Loteing			1.				
			Set Region			501	AL	Cegr Al		
			Min. Lobert	g Time (3-1800u)		7				4
			Object Sce			_	•			_
			Effective Tr	9		Ed				
			Action			Ea	ρ			



Loitering	

Step 2. Set Loitering detected region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking set All and clear All.



Step 3. Set Min. Loitering Time and Object Size.

After setting minimum loitering time from 3s to 1800s, any objects loitering in the selected area over the minimum loitering time will trigger the alarm. Also Milesight loitering allows to set "Object Size". Only the object bigger than the set size will trigger the alarm.

Min. Loitering Time (3-1800s)	7	\$
Object Size	•	30

Step 4. Set Effective Time of loitering by clicking

NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.



Step 5. Set Action for loitering alarm by clicking

Audible Warning: NVR will trigger an audible beep when loitering is detected.

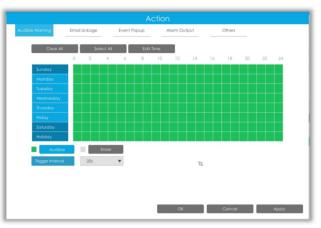
The user can set effective schedule as following two ways:

Select the operation type: Audible or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

2 Click Edit Time to edit record effective time manually.

O Milesight

Trigger Interval: The effective interval between two actions when event triggered.



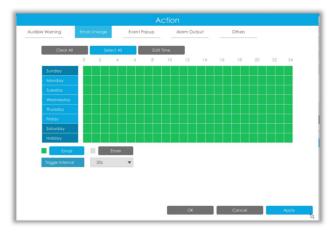
Email Linkage: NVR will send an email to the address you set before.

The user can set effective schedule as following two ways:

① Select the operation type, Email and Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking Select All or Clear All to set or clear all time settings.

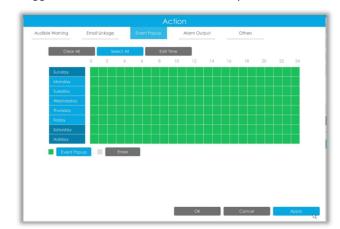
2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



Event Popup: Trigger alarm screen popup to full screen when alarm is triggered.

You can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.





Alarm Output: Trigger alarm output when alarm is triggered.



Others: Trigger other channels record when alarm is triggered.

				Act	tion					
Audible Warning	Emai	I Linkage	Event Popup		Alarm Output		Others			
Trigger Channe	els Record									
1 11 21 31	2 12 22 32	□ 3 □ 13 □ 23	☐ 4 ☐ 14 ☐ 24	5 15 25	☐ 6 ☐ 16 ☐ 26	□ 7 □ 17 □ 27	□ 8 □ 18 □ 28	□ 9 □ 19 □ 29	10 20 30	
Note: This page's	configuratio	n will not be	copied into	olher channe	els.					

Human Detection

Human detection is used for figuring out whether an object is a human or not.

* .										
	Region Enfrance	Region Exiling	Advanced Motion	Detection	Tamper D	election	Line C	posing	LO	tering
	Human Definition	People Counting	Object Left/Rem	byed	Settings					
				2	3	4	5	4	7	8
				10	11	12	13	14	15	16
			17	18	19	20	21	22	23	24
			25	26	27	28	- 29	30	31	32
Smart Event			Human Deh Show Tracks							
			Effective Ter			Ed				
			Action			td				

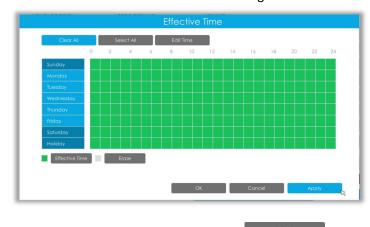
Step 1. Select channel and enable Human Detection.

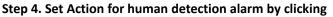
I	Human Detection	
- 10.		

Step 2. Enable Show Tracks or not.



NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.





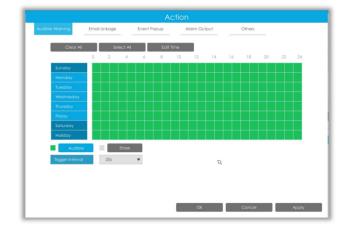
Audible Warning: NVR will trigger an audible beep when human is detected.

The user can set effective schedule as following two ways:

① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

2 Click Edit Time to edit record effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



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

The user can set effective schedule as following two ways:

① Select the operation type, Email and Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

2 Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.

					A	ctior							
Audible Warning	Emai	Linkage		Event P	opup)	Alarm Out	tput		Others			
Clear All		Se	lect All		Edit	Time							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													
Email		- 60	Erase										
Trigger Interval		20s	6	Ŧ									
							OK			Cancel			Apply

Event Popup: Trigger alarm screen popup to full screen when alarm is triggered.

You can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

Audible Warning	Email I	inkage		Eventi	opup	,	Narm Ou	tput		Others			
Clear All		Se	elect All		Edit	Time							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Filday													
Saturday													
Holiday													
Event Popu	q		Erase										
						_						_	
													Apply

Alarm Output: Trigger alarm output when alarm is triggered.

			Ac	tion		
Audible Warning	Email Lin	kage	Event Popup	Alarm Output	Others	
Trigger Alarm Ou	itput					
1	2	3	4			
				ОК	Cancel	Apply

Others: Trigger other channels record when alarm is triggered.



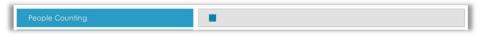


People Counting

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

* .										
	Region Entrance	Region Exiling	Advanced Motion	Detection	Tamper D	etection	Line C	losing	Le	itering
	Human Detection	People Counting	Object Left/Remo	wed	Setting					
				2	3	4	5	4	7	8
				10	11	12	13	14	15	. 16
			17	18	19	20	21	22	23	24
Alarm Output			25	26	27	28	29	30	31	32
			People Cours							
			Text Position			Top-Left Ro	_	Ceor		*
			Draw the			Cie		Cear		
			and the second second							

Step 1. Select channel and enable People Counting.



Step 2. Set counting OSD.

It shows the number of counted people, including in and out number.

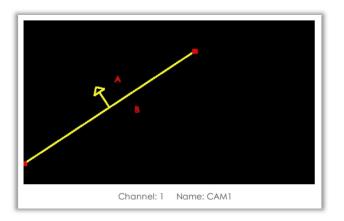
Besides, you can clear count by clicking

Show Counting OSD	 • • • • • • • • • • • • • • • • • • •
Text Position	Top-Left
Draw Line	Draw Clear
Clear Count	Clear

Note:

- ① To enable people counting, human detection should be enabled first.
- ② Crossing along the direction of the arrow will record as "In", opposite is "Out".

Step 3. Draw detection line.



Object Left/Removed(Optional)

Milesight

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

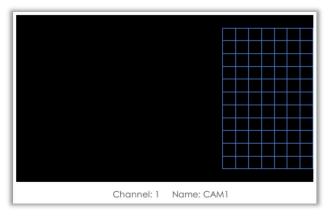
Object Left/Removed is optional, if you need this function, please contact Milesight sales first.
 You need to upgrade the NVR to V7x.9.0.4-r2 or above to support this function.

Step 1. Select channel and enable Object Left or Object Removed(Or you can enable both features at the same time).

* .										
	Region Enfrance	Region Exiting	Advanced Motion	Detection	fomper D	election	Line C	posing	Lo	tering
	Human Detection	People Counting	Object Left/Rem	ived -	Settings					
				2	3	4	5	4	7	8
				10	11	12	13	14	15	. 16
			17	18	19	20	21	22	23	24
			25	26	27	28	29	30	31	32
Smart Event			Object Left Object Rem	10042 5					-	
			Set Region Min.Time(10			20	4	Clear All		
			Effective for			Ed				
			Action			Ea	2			

Step 2. Set detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking set All and clear All.



Step 3. Set Min. Time.

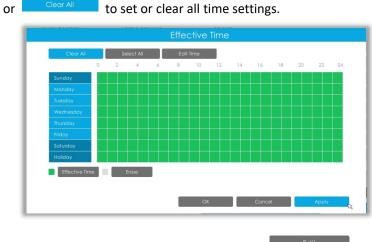
📀 Milesight

After setting minimum time from 3s to 1800s, any objects are left in the selected area or removed from the selected area over the minimum time will trigger the alarm.



Step 4. Set Effective Time of object left/removed by clicking

NVR receives the alarm when effective time has been set. It will be more convenient by clicking



Step 5. Set Action for object left/removed alarm by clicking

Audible Warning: NVR will trigger an audible beep when object left/removed is detected.

The user can set effective schedule as following two ways:

3 Select the operation type: Audible or Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking select All or clear All to set or clear all time settings.

(4) Click Edit Time to edit record effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.

				_		ctior							
dible Warning	Email	Linkage		Event Po	pup		Alarm Ou	tput		Others			
Clear All		Sol	ect All		Edit	Time							
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													
Audible		- 60	Erase										
Trigger Interval		205		*				B					
								16					
							OK	_		Cancel	_	_	Apply

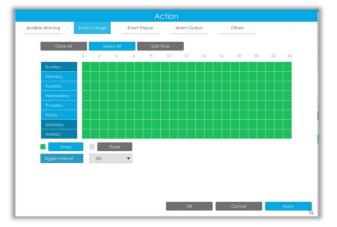
Email Linkage: NVR will send an email to the address you set before.

The user can set effective schedule as following two ways:

③ Select the operation type, Email and Erase. Then drag a square on the time table for time setting, it will be more convenient by clicking Select All or Clear All to set or clear all time settings.

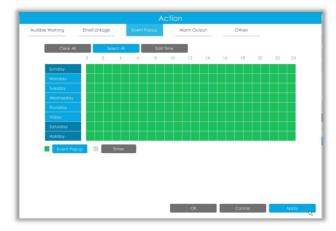
(4) Click Edit Time to edit effective time manually.

Trigger Interval: The effective interval between two actions when event triggered.



Event Popup: Trigger alarm screen popup to full screen when alarm is triggered.

You can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.



Alarm Output: Trigger alarm output when alarm is triggered.

			A	ction		
Audible Warning	Email Un	kage	Event Popup	Alarm Output	Others	
Trigger Alarm O						
I 1	2	3	4			
				OK	Cancel	Apply

Others: Trigger other channels record when alarm is triggered.



Settings

Milesight VCA provides the primary setting for the whole VCA functions.

Draw Min. is to set the whether an object is big enough to trigger other settings. The frame you draw on the screen means that only if the object size is bigger than the frame, the settings for other VCA functions will take effect.

Draw Max. means opposite, the frame you draw on the screen stands for that only if the object size is smaller than the frame, the settings for other VCA functions will take effect.

a.										
	Region Enfrance	Region Exiting	Advanced Mation 8	Detection	Tamper D	election	Line C	rosing	LO	iteing
	Human Detection	People Counting	Object Left/Remo	ved	Setting	8				
			1.00	2	3	4	5	6	7	8
			. 9	10	11	12	13	14	15	16
			17	18	19	20	21	22	23	24
larm Output			25	26	27	28	29	30	31	32
		sel: 1 Name: CAM1	Process (15			10(pe				
			Scenaria Mo	de		Indoor				
			Comera Insta			Angle Vie				•
			Analysis Type			Standard				•
			License Statu			Vald				
				5km(1x1~480×21	-	4		1. 3		
			- Maximum	Size(1x1~480x2	20)	480		* 2	70	

Parameters	Descriptions
Process FPS	Five different periods are available(5, 10, 15, 20, 25, fps) for process
	fps
Scenario Mode	Select Indoor or Outdoor mode to meet your needs
Camera Installation	Select camera installation view, including Angle View, Horizontal View
	and Overhead View
Analysis Type	Select Standard or Advanced analysis type
License	Generated by camera's information
License Status	Show present license status, including Valid, Invalid, Expired, Unactivated

3.8 Settings

3.8.1 General

It is for setting up the general parameters of NVR, including Device Name, Device ID, HDMI Resolution, Language, System time, etc.

Event Popup Duration Time: The display duration time for Motion Detection popup screen. **Boot Wizard:** Enable it to pop up boot wizard after rebooting.

Local Authentication: Enable it to authenticate the user after rebooting.

Menu Authentication: Enable it to authenticate the user every time when you click menu.

Settings Page Timeout: The interface will switch to Live View automatically according to the time you set.

* .		O to make	
		General	
	Device Nome	9/VR	
	HOMI Resolution	1920 x 1080 / 60Hz.	
Network	HOM Audio	Enable	()
Network	Event Popup Duration Time	19	
	Waad	Shart	
	Boot Waard	Enable	
	Local Authentication	Enoble	
	Menu Authentication	Disoble	
	Settings Page Timeout	Disoble	
	Longlinge	English	
	Server Time	2019.01.28 18:20:39	
	Time Zone	(UTC-08:00) United States - Pacific Time	
	Dayight Saving Time	Auto	
	Time Setting	Synchroniae with NIP server	
	NIP Server	pool/ritp.org	
		<i>b</i> t	
Live View			

3.8.2 Network

3.8.2.1 Basic

The system supports two IP address format: IPv4 and IPv6

IPv4

📀 Milesight

Enable IPv4 DHCP to auto search IP. When enable DHCP function, you can not modify IP/ Subnet mask/ Gateway.

Disable IPv4 DHCP to modify IP/ Subnet mask/ Gateway manually.

IPv6

Manual/ Router Advertisement/ DHCPv6 are available.

DNS Server

Preferred DNS Server: DNS server IP address.

Alternate DNS Server: DNS server alternate address.

Basic	UPnP	DDNS	Email	P2P	SNMP	More
AN						
IPv4 DHCP	Disable		*	IPv6 Mode	Manual	,
IPv4 Address	192.168.7 .	101		IPv6 Address		
IPv4 Subnet Mask	255.255.240	.0		IPv6 Prefix Length		
IPv4 Gateway	192.168.7	5		IPv6 Gateway		
Preferred DNS Server	192.168.7 .	0				
Alternate DNS Server						
MTU(Byte)	1500					
MAC	1C:C3:16:0/	\$27:12				
PoE NIC IPv4 Address	192.168.20	1				

Note:

- 1. Check the DHCP check-box when there is a DHCP server running in the networks.
- 2. The valid range of MTU is 500~9676.
- 3. Do not input an IP address conflicting with another device.
- 4. Working mode option is only for NVR 7000/8000 Series. Internal NIC IPv4 Address is only for PoE NVR Series.

3.8.2.2 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**.

Basic	UPnP	DDNS	Email	P2P	SNMP	More	
UPnP		Disable					
Forwarding Type		Auto:					
Port Type		Edit	External Port	Internal Port		Status	
HTTP		R,	21202	80		Invalid	
		Ø		55.4			

3.8.2.3 DDNS

Using DDNS to solve the dynamic IP address problem.

Check DDNS check-box to enable it, then select a DDNS Server and 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 http://ddns.milesight.com:MAC to access device remotely.

Note:

📀 Milesight

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

Basic	UPnP	DDNS	Email	P2P	SNMP	More	
DDNS		Enable					*
Provider		ddns.milesight.com					٣
External HTTP Port		80					
External RTSP Port		554					
DDNS URL		http://ddns.milesight.co	m/0A2712				

3.8.2.4 Email

Basic	UPnP	DDNS	Email	P2P	SNMP	More
User Name		cc@milesight.cn				
Password		•••••				
SMTP Server		smtp.milesight.com				
SMTP Port		465				
Sender Emoil Address		cc@milesight.cn				
Receiver Email Addre	es 1	cc@milesight.com				
Receiver Email Addre	HS 2					
Receiver Email Addre	HS 3					
Procession .		- nr				

A screenshot will be sent to the receivers when alarm is triggered.

User name: The E-mail address you choose to send emails. Please input **full email address**. **Password:** The password of the E-mail.

SMTP Server: The SMTP Server of your E-mail.

SMTP Port: The port of SMTP Server. It's usually 25.

Sender Email Address: It must be same as [User name].

Receiver Email Address: E-mail Address for the receivers.

Encryption: Security Protocol of email sending, including TLS and SSL.

Host Name: It will be attached in the email.

Select Test to check if the Mail function is workable.



Note:

If your NVR has a port forwarding IP for Host Name, please input the complete address that contains the port.

3.8.2.5 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.

Basic	UPnP	DDNS	Networ	P2P	SNMP	More	
busic	UPTIF		Erndi	rar.	artmr		
	via mobile phone without ro		s feature, please make sure th	at this NVR is available for th	e internet.		
P2P Service		Enable					*
		Activated					
-							
■に免							
- A & C	-						
<i>1</i> -382							
124.24	U 7						
	16						
	ng						

There are several status shows on P2P Status after clicking Saving, please check corresponded possibilities below:

P2P Status	Description
Network unavailable	Failed to connect with internet
Authentication request failed	Failed to authenticate P2P encryption
No idle UUID	Please contact Milesight if this status shows up
Activated	P2P is available
Login failed	Failed to login P2P server
Initialization failed	Failed to initialize P2P
Unactivated	P2P is disabled
Unknown error	Other error

Note:

1. Please make sure that NVR is available for internet before enabling.

2. If your NVR firmware version is not 7x.7.0.9-r2 or above, please contact Milesight to registered P2P first.

3.8.2.6 SNMP

📀 Milesight

SNMP is an abbreviation of Simple Network Management Protocol, which is convenient for NVR to be monitored and managed in the whole network environment. The SNMP is widely used in many network devices, software and systems.

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

Basic	UPnP	DDNS	Email	P2P	SNMP	More	
SNMP V1		Disable					
SNMP V2c		Disable					
Read Community		public					
Write Community		private					
SNMP V3		Disable					
Read Security Name							
Level of Security		no auth, no priv					
Level of Security		no auth, no priv					
SNMP Port		161					

SNMP v1/2c/3: The version of SNMP. Please select the version of your SNMP software.

SNMP v1: No security protection

SNMP v2c: Require password for access

SNMP v3: Support encryption on the premise that the HTTPS protocol must be enabled.

Read Community: Input the name of Read Community

Write Community: Input the name of Write Community

Read Security Name: Input the name of Read Security Community

Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv)

Write Security Name: Input the name of Write Security Community

Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv) **SNMP Port:** The default of the SNMP port is 161.

3.8.2.7 More

Basic	UPnP	DDNS	Email	P2P	SNMP	More	
SSH		Enable					,
SSH Port		22					
HTTP Port		80					
HTTPS Port		443					
RTSP Port		554					
Push Message		Enoble					1
Push Video Stream		Auto					
Push Event Type		Edit					

SSH

Enable or disable SSH access. Secure Shell (SSH) has many functions; it can replace Telnet, and also provides a secure channel for FTP, POP, even for PPP.



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.

Note:

- 1. The default HTTP port for IE browser is 80.
- 2. HTTP port is used for remote network access for 4k/H.265 NVR Series.

HTTPS Port

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

Note:

- 1. The default HTTPS port for IE browser is 443.
- 2. HTTPS port is used for remote network access for 4k/H.265 NVR Series.

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.

Note:

- 1. RTSP port is used for remote network live view.
- 2. RTSP port valid range is 554 or 1024~65535.

Push Message

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

Push Video Stream

Select which video stream will be pushed to APP M-Sight Pro. Auto, Primary Stream and Secondary Stream are available.

Note:

Only NVR model ends with letter T support this option.

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 and Human Detection.

3.8.3 Holiday

It can configure the record or image capture schedule for holidays of the current year.

* .				noilddy			
	D D	Holday Name	Status	Start Date	End Date	Edit	
	1.1	Holiday	Disoble	1-1	1-1	Ø	
	2	Haliday	Disoble	1-1	1-1	Ø	
	3	Holiday	Disoble	1-1	1-1	Ø	
	4	Haliday	Disoble	1-1	1-1	Ø	
	5	Holiday	Disoble	1-1	1-1	e	
	6	Haliday	Disoble	1-1	1-1	e	
	7	Haliday	Disoble	1-1	1-1	2	
	8	Holiday	Disoble	1-1	1-1	ß	
	9	Holiday	Disoble	14	1-1	ß	
	10	Holiday	Disoble	1-1	1-1	Ø	
	11	Holiday	Disoble	1-1	1-1	ß	
	12	Holiday	Disoble		1-1	ß	
					5		

Click 🖻 to edit holiday information, including Holiday Name, Holiday Enable, Style, Start Date and

End Date. Then click

ok to save the configuration.

	Holiday Edit
Holiday Name	Holiday
Holiday	
Style	Month
Start Date	January 🔻 1 💌
End Date	January 🔻 1 💌
* Holiday schedule ta	kes precedence over other schedules.
	Ø
	Сопсет Арруу

3.8.4 User



Note:

- 1. If the NVR firmware version is below xx.7.0.6, the default user name is "admin" and the default password is "123456".
- 2. If the NVR firmware version is between xx.7.0.6 and xx.9.0.3, the default user name is "admin" and the default password is "ms1234".
- 3. If the NVR firmware version is xx.9.0.3 or above, please set the password before login.

	Add User	
Admin Password	••••••	
User Level	Operator 🔻	
User Name	сс	
Password	*****	
Confirm	•••••	

Note:

The user name can only contain letters and number. There are two user levels with different authority: Operator and Viewer.

Edit user limits

Select a user, when the background color changes into dark gray, click \square to edit user privileges.

- ① Local Privilege means that the privilege to the monitor connected with NVR.
- ② Remote Privilege means that the privilege to web settings.



Basic Permission	Camera Configuration
Admin Password	
Local Privilege	Remote Privilege
Camera Management	Camera Management
PTZ Control	PTZ Control
Record Settings	Record Settings
Disk Management	Disk Management
Video/Picture Export	Video Export
Event Settings	Event Settings
Status & Log	Status & Log
General Settings	General Settings
Network Settings	Network Settings
Holiday Configuration	Holiday Configuration
System Upgrade	System Upgrade
Save/Load Configuration	Save/Load Configuration
Shutdown/Reboot	Reboot
Emergency Record	Remote Record
Snapshot	Remote Snapshot
Maintenance	Remote Auto Maintenance
Live View Settings	
Auto Reboot	
Retrieve	
	OK _ Cancel

Edit user password

Select a user, when the background color changes into dark gray, click \square to modify password.

Sync new password to current connected PoE channels is available for PoE NVR Series.

Admin Password	•••••
User Level	Operator
User Name	cc
	••••••
Confirm	*****

Delete user

Select a user and click is to delete a user.

Modify Security Question

Input Admin Password, select security question and answer. Click to save.

User	Security Question	
Admin Password		
Security Question 1	What's your favorite food?	•
Security Answer 1		
Security Question 2	What's your favorite color?	
Security Answer 2		
Security Question 3	What's your lucky number?	•
Security Answer 3		

Note:

- 1. This option is available for the NVR firmware version xx.9.0.3 or above.
- 2. Security question is used for resetting admin password if you forget current one.

3.8.5 Maintenance

Upgrade

Step1. Search for USB device, and select the corresponding firmware.

Step2. Check if you need to reset settings to factory default (except IP Address and User Information) after upgrade.

Step3. Click ^{Upgrade} confirm the upgrade.

	System Setting	gs				CPU K. Memory 08
* .			Auto Maint	enance		
	Upgrade	Save/Load Configuration	Reset			
	Device Name					▼ Retech
		Name		520	type	Date Modified
User						
Maintenance						
Live View	Reset settings to factor	ry default (except IP Address and User informa	rlion)			
			R	New Folder	Format Up	ograde Back

Note:

The system will auto reboot after confirming upgrade.

Save/Load Configuration

 Save Configuration: Select a folder and then click
 Bockup
 to export configuration to USB device.

 Load Configuration: Select a .cfg file and then click
 Restore
 to import configuration to your NVR.



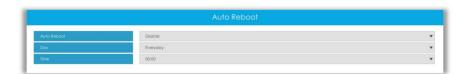


Reset

All parameters can be reset to default settings by clicking

Upgrade Save/Lood Please choose the parameters which you want to Keep the IP parameters		
	d Configuration Reset	
Keep the IP parameters	to keep after reset.Uncheck all to reset the NV	VR to inactivate default.
Keep the User information		

3.8.6 Auto Reboot



You can set day and time for reboot, and **the NVR will reboot automatically at the time you set. Day**: Everyday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday. **Time**: 00:00, 01:00, 02.00 22:00, 23:00.

3.8.7 Hot Spare

Configured as the architecture of N pcs Master NVRs and 1 hot spare Slave NVR, Milesight N+1 Hot Spare guarantees the data integrity and reliability of video surveillance system. If any one of the Master NVRs fails, the Slave NVR can take over the channel information to ensure video recording. Meanwhile, when the failed NVR recovered, the Slave NVR will send the recorded data back.

Master Mode:

Step 1: Select Master Mode as Hot Spare Mode.

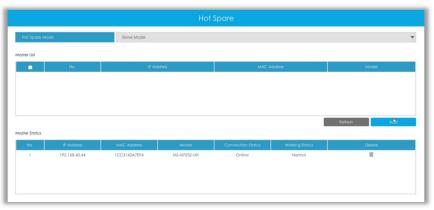
Step 2: Input Slave IP Address, Slave Admin Password and Apply.

	Hot Spare	
Hot Spare Mode	Master Mode	Ŧ
Slave IP Address	192.168.40.42	
Slave Admin Password		
Slave Status	Link is up (Ready)	

Slave Mode:

Step 1: Select Slave Mode as Hot Spare Mode and click Apply. NVR will change to Slave mode successfully after rebooting.

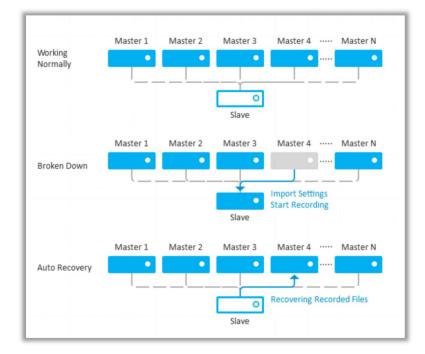
Step 2: Add Master which is up to 32.



For example, there are three NVRs in LAN, 192.168.5.200, 192.168.5.201 and 192.168.5.202. If you want to set 192.168.5.200 and 192.168.5.201 as Master NVR, and set 192.168.5.202 as Slave NVR. You can operate as following steps.

- ① Set 192.168.5.200 and 192.168.5.201 to Master Mode. And then input the IP and account information of 192.168.5.202 as Slave.
- ② Set 192.168.5.202 to Slave Mode. And then add 192.168.5.200 and 192.168.5.201 to its Master List.

After Master and Slave match successfully, Hot Spare function begins to work.



Note:

- ① Only MS-N7016-UH, MS-N7032-UH, MS-N8032-UH and MS-N8064-UH support N+1 Hot Spare function.
- ② It is recommended to set Master NVR and Slave NVR up with the same NVR model.

3.9 Status

You can have a quick view of the information of the device, network, camera, disk and event. This part is only for your rapid reference. If you want to make any configuration, please go to corresponding parts accordingly.

3.9.1 Device Information

Device Information include Model, MAC Address, Hardware Version, Software Version, and Uptime.

	Device Information
Model	MS-N1009-UPT
MAC Address	1C:C3:16:0A:27:12
Hardware Version	V1.0
Software Version	72.9.0.3-04
Uptime	18:51:33 up 3 days, 19:34

3.9.2 Network Status

Network Status includes three main parts: Network Status and Bandwidth Status. Network Status

Network Status						
Network Status	Bandwidth Status					
AN						
Connection	Link is up	Mode	100Mbps FULL			
IPv4 DHCP	Disable	IPv6 Mode	Manual			
IPv4 Address	192.168.7.101	IPv6 Address				
IPv4 Subnet Mask	255.255.240.0	IPv6 Prefix Length				
IPv4 Gateway	192.168.7.1	IPv6 Gateway				
Preferred DNS Server	192.168.7.1	MTU(Byte)	1500			
Alternate DNS Server		MAC	1C:C3:16:0A:27:12			

Bandwidth Status



3.9.3 Camera Status

Camera Status includes Channel, Name, IP Address, Record, Frame Rate, Bit Rate, Frame Size and Status.

Channel Status		PoE Port Status					
Channel	Name	IP Address	Record	Frame Rate	Bit Rote	Frame Size	Status
1	CAM1	192.168.7.86	Off	30fps	2135Kbps	1280×720	Connected
2							
3	-		-		-		
4							
5	944 S		-		14 C		
6							
7							
8							
9							

The PoE Port Status is only for PoE NVR, it will show you the current power and connection status of PoE ports.

		Cun	nera Status	
Channel Status	PoE Port Status			
PoE Port		IP Address	Current Power	Status
1		-	-	
2			-	
3				
4			-	-
Tatal Power	0.000			
	0.00W 40.00V			
Remaining Power	40.00%			
Total Power. Remaining Rower dec The rated power of all PoE ports is	40.00%	i i	hannel number from large to small until the total pr	

3.9.4 Disk Status

Disk Status

Disk Status includes Port, Vendor, Status, Total(GB), Free(GB), HDD Type and Group. The user can see the Total Capacity (GB) and Available Capacity (GB) as well.

S.M.A.R.T x Statu 1ES162 Norma		Free(G8) 861	Property R/W	HDD Type LOCAL	Group -	
-1ES162 Norma	al 931	861	R/W	LOCAL		
931						
861						

S.M.A.R.T

S.M.A.R.T is a monitoring system of HDD that detects anticipating failures of HDD and reports them with various indicators.

Test Type: Fast and Full are available.

Self-evaluation: If the HDD is in good condition, it will pass the self-evaluation.

				Disk Status				
Disk Status	S.M.A.R.T							
ID	Attribute Name		Value	Worst	Threshold	Raw Value	Status	
01	Raw_Read_Error_Rate		115	99	6	92423208	OK	
03	Spin_Up_Time		98	97	0	0	OK	
04	Start_Stop_Count		98	98	20	2106	OK	
05	Reallocated_Sector_Cl	f	100	100	10	0	OK	
07	Seek_Error_Rate		70	60	30	10869574	OK	
09	Power_On_Hours		82	82	0	15848	OK	
0a	Spin_Retry_Count		100	100	97	0	OK	
0c	Power_Cycle_Count		100	100	20	232	OK	
8d	End-to-End Error		100	100	99	0	OK	
Port		1						ġ
Test Process								
Test Type		FAST						
Temperature("C)		32						
Uptime		15848						
Self-evaluation		PASSED						
All-evaluation		In good conditio	on					
S.M.A.R.T Test		Test						

3.9.5 Event Status

Camera Event

The user can check Camera Event here, including Video Loss, Motion and I/O. 🐣 will turn into

when the corresponding alarm is triggered.

* .							
	Consero Event	Alam	Smart Ev	herit	People Counting		
	Channel	Nome	# Address	Video Loss	Molion	10	
	1.	CAMI	192.168.14.102	<u>n</u>	<u>n</u>	<u>n</u>	
	2	CAM2	192.168.14.103	<u>n</u>	<u>A</u>	<u>n</u>	
	3	CAM3	192.168.14.105	<u>n</u>	<u>n</u>	<u>n</u>	
Comero Status	4	CAMA		<u>A</u>	<u>n</u>	<u>n</u>	
Camera Status	5	CAMS		<u>n</u>	<u>n</u>	<u>n</u>	
	6	CAM6		<u>n</u>	<u>n</u>	<u>n</u>	
	7	CAM7		<u>n</u>	<u>n</u>	<u>n</u>	
	8	CAMB		<u>n</u>	<u>n</u>	<u>n</u>	
	9	CAM9		<u>n</u>	<u>n</u>	<u>n</u>	
	10	CAMID		<u>n</u>	<u>n</u>	<u>n</u>	
	11	CAMIT		<u>n</u>	<u>n</u>	<u>n</u>	
	12.	CAM12		<u>n</u>	m	<u>n</u>	
	13	CAM13		<u>n</u>	<u>n</u>	<u>n</u>	
	14	CAM14		<u>n</u>	<u>n</u>	<u>n</u>	
	15	CAM15		<u>n</u>	<u>n</u>	<u>n</u>	
	16	CAMIS		<u> </u>	<u>n</u>	<u>n</u>	
	17	CAM17		<u>n</u>	<u>n</u>	<u>n</u>	
	18	CAM18		<u>n</u>	<u>n</u>	<u>n</u>	
	19	CAMIF		<u>n</u>	<u>n</u>	<u>n</u>	
	20	CAM20		<u>n</u>	<u>n</u>	<u>n</u>	
	21	CAM21		<u>n</u>	<u>n</u>	<u>n</u>	
	22	CAM22		<u>n</u>	<u>n</u>	<u>n</u>	
	23	CAM23		<u>n</u>	<u>n</u>	<u>n</u>	
	24	CAM24		<u>n</u>	<u>n</u>	<u>n</u>	

Alarm

The user can check Alarm Input and Output list here if NVR has corresponded interface.

turn into Image: when the corresponding alarm is triggered.

Comero Event	Alom	Smart Event	People Counting	
Alarm Input List				
Hos	Alarm Name	Alarm Type	Botus	
A<1		NO	<u>n</u>	
A<2		NO	<u>n</u>	
A4-3		NO	<u>n</u>	
Ac-4		NO	<u>n</u>	
A<5		NO	<u>n</u>	
A<-6		NO	<u>n</u>	
A67		NO	<u>n</u>	
A-LB		NO	<u>n</u>	
A<.9		NO	<u>n</u>	
A<-10		NO	<u>n</u>	
Ac.11		NO	<u>n</u>	
A<-12		NO	<u>n</u>	
Alorm Output List				
- NO	Alam Nome Alam	Type Dwell Time	Status	
A->1		10 St	<u>n</u>	
A-1-2	9	IO 58	<u>n</u>	
A-H3	P	IO 54	<u>n</u>	
A->4		0 51	n	

Smart Event

It shows the Smart Event status. 🚨 turns into 🚨 when alarm is triggered.

* .											
	c	omero Eve	ot	Alarm		Smart Event	People Cour	śng			
	Chann	Nome	P Addes	legion Enhance	Region Exifing	Advanced Motion Detection	Tomper Detection	Line Crossing	Loitering	Human Defection	Object Left/Remove
	- 1	CAMI	192.768.7.114	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>A</u>
	2	CAM2	192.168.14.105	<u>n</u>	<u>n</u>	n	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	3	CAMS	192,168,14,104	<u>n</u>	<u>n</u>	n	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
Comero Status	4	CAME	192.168.14.103	m	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>A</u>	<u>n</u>
Contero aronos	5	CAM5	192.168.14.102	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
		CAM6		n	n	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	7	CAM7		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	8	CAMS		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	n	n	<u>n</u>	<u>n</u>
		CAM9		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	10	CAMID		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	n	<u>n</u>
	11	CAMIT		<u>n</u>	<u>n</u>	n	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	12			<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	13	CAM13		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
Logs	14			<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	15			<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	n	<u>n</u>	<u>n</u>
		CAMIS	÷	<u>n</u>	<u>n</u>	n	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	17			<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
		CAMIB		<u>n</u>	n	n	<u>n</u>	<u>n</u>	n	<u>n</u>	<u>n</u>
	19			n	<u>n</u>	n	<u>n</u>	<u>n</u>	n	<u>n</u>	<u>n</u>
		CAM20		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	21			<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
		CAM22	-	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	23			<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
	24.	CAM24	-	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	n	<u>n</u>	<u>n</u>

People Counting

It shows every camera's current In/Out number of people counting.

* .						
	Corriero Event	Alarm	Smart E	veni Pecete Co	inting	
	Channel	Nome	IF Address	"H" Count	"Out" Count	
	1	CAM1	192.168.14.102	635	369	_
	2	CAM2	192.168.14.103	2	4	
		CAM3	192.168.14.105			
Comero Status	4	CAM4				
Contero sicilos	5	CAMS				
	4	CAM6				
	7	CAM7				
		CAMB				
		CAMP				
	10	CAMID				
	11	CAM11				
	12	CAM12				
	13	CAM13				
	14	CAM14				
	15	CAM15				
	16	CAM16				
	17	CAM17				
	18	CAMIS				
	19	CAM19				
	20	CAM20				
	21	CAM21				
	22	CAM22				
	23	CAM23				
	24	CAM24				

3.9.6 Group Status

Check Group Status. The status of the all created Groups can be sorted by Group or Channel.

Sort by Group	Sort by Channel	
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
1.4		
15		
16		

3.9.7 Logs

O Milesight

The user can check, search and export logs in Logs interface. By selecting the Start Time, End Time, Main Type and Sub Type, which can narrow down the scale of logs, you can search for logs that you need.

* .										
	Stort Time			2018-09-18		*	00:00:00			
	End Time			2018-09-18		*	23:59:59			
	Main Type			IA						
	Jub type			Al						
	THO HERE			AI						
	No.	Main Type -	Te	ne.	Sub Type-	Porometer	Chonnel	Uter	Detais	
	1	Exception	2018-07-1	8 04:20:16	Video Loss	N/A	2	N/A	包	
	2	Exception	2018-09-1	8 04:20:16	Video Los	N/A	4	N/A	Ø	
	3	Information	2018-09-1	8 04:13:01	Start Recard	N/A	7	N/A	回	
	4	Event	2018-09-1	8.04:12:43	Stop Motion Detection	N/A	3	N/A	图	
	5	Event	2018-09-1	8 04:12:30	Start Motion Detection	N/A	3	N/A	ß	
		Event	2018-09-1	8 04:12:26	Stop Motion Detection	N/A	3	N/A	ß	
Group Status	7	Event	2018-09-1	8 04:12:13	Start Motion Detection	N/A	5	N/A	2	
	8.	Event	2018-09-1	8 04:12:09	Stop Motion Detection	N/A	3	N/A	包	
	9	Event	2018-09-1	8 04:11:37	Start Motion Detection	N/A	3	N/A	2	
	10	Event	2018-09-1	8 04:11:11	Stop Motion Detection	N/A		N/A.	8	
	11	Event	2018-09-1	8 04:11:10	Stop Motion Detection	N/A	3	N/A	创	
	12	Event	2018-09-1	8 04:10:59	Start Motion Detection	N/A	8	N/A	8	
	13	Event	2018-09-1	8 04:10:58	Stop Motion Detection	N/A	8	N/A	Ø	
	14	Event	2018-09-1	8 04:10:28	Start Motion Detection	N/A	3	N/A	ß	
	15	Event	2018-09-1	8 04:10:26	Start Motion Detection	N/A		N/A	e	
	16.	Event	2018-09-1	8 04:10:23	Stop Motion Detection	N/A	3	N/A	8	
	17	Information	2018-09-1	8 04:09:42	Stort Record	N/A	.6	N/A	2	
	18	Event	2018-09-1	8 04:09:27	Start Motion Detection	N/A	3	N/A	部	
					Total 711 Items 🕊 🖌 1/8		-		12	

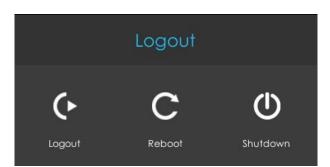


to export searched logs to media device.

* .										
						Logs				
	Stort Tre			2018-09-18			• 00.00.0	0		
				Eve	port		9.5	9		
				EX	001					
		Device Nome	Cruzer Facel			•	Refresh			
		Nome	•	Size	Туре	Date Modified				
		SRECYCLE.BIN			Folder	18 Sep 2018 11:16:40	0			
					Folder	18 Sep 2018 04:24:34		2 N/A	2	
		System Volume Infor	mation		Folder	18 Sep 2018 11:13:28		4 N/A	Ø	
		MSFimage_71.8.0.6+	6	68.7 M8	6-15 File	17 Sep 2018 06:58:40		7 N/A	Ø	
								3 N/A	0	
								3 N/A	19	
								3 N/A	Ø	
								3 N/A	8	
								3 N/A	2	
								3 N/A	셴	
								8 N/A	셛	
								3 N/A	Ø	
		Free Size: 6 G8			New Folder	Format Export 🔩	Cancel	8 N/A	团	
								8 N/A	1	
	14	Event	2018-09-18	04:10:28	Stort Mo	tion Detection	N/A	3 N/A	Ø	
	15	Event	2018-09-18	04:10:26	Start Ma	tion Detection	N/A	8 N/A	e	
	16	Event	2018-09-18	34:10:23	Stop Mo	tion Detection	N/A	3 N/A	Ø	
	17	Information	2018-09-18	34:09:42	Sto	rt Record	N/A	6 N/A	2	
	18	Event	2018-09-18	34:09:27	Start Mc	tion Detection	N/A	3 N/A	部	
								a	12	

3.10 Logout

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Logout: Exit the current login account. Reboot: Restart the NVR. Shutdown: Close the NVR.

4.WEB Settings

4.1 Account Setting

Note:

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Only the NVR firmware version xx.9.0.3 or above supports account activation.

Step1. Set password to active admin account.

Activation									
admin									
•••••									
	Next								

Note:

- 1. Password must be 8 to 32 characters long.
- 2. Password must contain at least one number and one letter.

Step2. Set security questions which are used for resetting password to finish account setting.

10 questions are provided, you can select any one to set answer. Beside, customized question is available.

If you skip this step, you can also set it again in Setting -> User interface.

Question1:	What's your father's name?
Answer1:	
Question2:	What's your father's name?
Answer2:	
Question3:	What's your father's name?
Answer3:	



4.2 Login

Select Language on the top-right of interface.

Input the user name, password and click Login to login NVR web page.



The browser will prompt to install the plugin when first logging in the device. Please click

" Download the plugin for NVR " to download the plugin for NVR.

Follow the prompts to install the plugin. When it's finished, it will pop out a window as shown below. Please click "Finish" and refresh the browser, then you will see the video.

NVRComponent Setup	- 🗆 ×
	Completing the NVRComponent Setup Wizard
	NVRComponent has been installed on your computer.
	Click Finish to dose this wizard.
db.	
	< Back Einish Cancel

Note:

During installing the plugin, please keep the browsers close.

If the firmware version of NVR is V7x.9.0.4 and above, you can preview the video on the browser without plugin in Plugin-Free mode.

1. For Windows system, Plugin-Free mode is supported in Chrome/Firefox/Microsoft Edge browser.

2. For MAC system, Plugin-Free mode is supported in Chrome/Firefox/Safari browser.

Only H.264 video codec are supported on Plugin-Free Mode for NVR. For better user experience, we recommend that you set the "profile" option to "main" on camera as shown below.

nary Stream Secondary Stre	eam Tertiary Stream				
		Video Codec :	H.264 ~		
		Frame Size :	1080P(1920*1080) ~		
		Maximum Frame Rate :	25 ~	ps	
		Bit Rate :	2048 ~	kbps	
		Smart Stream :	Off		
		Bit Rate Control :	CBR ~		
		Profile :	Main ~		
		I-frame Interval :	50	rame (1-120)	

Note:

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1. Plugin-Free mode is only supported when Chrome version is above V45, Firefox version is above V52, Microsoft Edge version is above V11 and Safari version is above V11.

2. When you use plugin-free mode, it will display "Plugin-Free" mode in "Settings" - "Local Configuration" interface.

Plugin Mode Plugin-free	\checkmark
Primary Stream When Fullscreen	

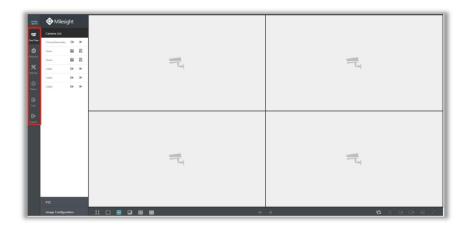
If you forget the password, click to reset password (Only the NVR firmware version xx.9.0.3 or above supports this.).

riedsei	ill in the answers to authentication.
Question1:	What's your lucky number?
Answer1:	
Question2:	What's your favorite color?
Answer2:	
Question3:	What's your favorite book?
Answer3:	

Note:

- 1. If the NVR firmware version is below xx.7.0.6, the default user name is "admin" and the default password is "123456".
- 2. If the NVR firmware version is between xx.7.0.6 and xx.9.0.3, the default user name is "admin" and the default password is "ms1234".
- 3. If the NVR firmware version is xx.9.0.3 or above, please set the password before login.

4.3 Menu



Icons	Descriptions
#	Hide or show secondary menu
Live View	Live view
S Playback	Play back the video
Settings	Make settings for Camera, Record, Event and System
Status	Check Device Information, Network Status, Camera Status, Disk Status and Event Status
	Check all operation logs
Logout	Log out NVR

4.4 Live View

📀 Milesight

4.4.1 Camera List

List and play added cameras on Camera List page.

Select one window one camera to play. Or click 🌓 to get all cameras' live video.



Icons' descriptions of Live View

lcons	Descriptions	lcons	Descriptions
>	Play Primary Stream		Play Secondary Stream
	Save View	Ω.	Play default view
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Full screen		1 screen mode
Ħ	4 screens mode		8 screens mode
Ħ	9 screens mode		16 screens mode
+	Previous page	-	Next page
¢.	Stop all live view		Start all live view
ତ	Digital zoom	Ċ1	Snapshot
	Record	<b>√</b> ∂	Audio on
	Audio off	×*	Original Image



ד	Resize Image		
---	--------------	--	--

And there are multiple icons on each channel displayed in live view, indicating video loss and alarm status of the channel.

Icons	Descriptions
-7 <b>)</b> .	It indicates video loss
- Fr	It indicates motion detection alarm
0	It indicates smart event alarm

### 4.4.2 PTZ

For PTZ cameras, you can operate PTZ, Preset, Patrol and Pattern on PTZ page directly.



For the Fisheye camera, select a Fisheye channel, and you can operate PTZ, Preset and Patrol of this channel separately.

#### Note:

Only for Milesight Fisheye Camera with Bundle-Stream Mode.





## 4.4.3 Image Configuration

Adjust image Brightness, Contrast, Saturation, Sharpness and Noise Reduction Level on Image Configuration page.



## 4.5 Playback

To play and backup the recorded files.

CAME CAME	-14 -14	II-I-I-I-I-I-I-I-I-I-I-I-I-I-I-I-I-I-I
Construction         Stream Type           Prinnay Stream         Triange Stream           Construction         Triange Stream           Stream Type         Triange Stream           Construction         Triange Stream           Stream Type         Triange Stream           Stream Type	-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	II-I-I-I-I-I-I-I-I-I-I-I-I-I-I-I-I-I-I
Event Ch		88 अग्रे के क्रांड क स्राह्य अग्रे क्रांड के क्रांड क

## 4.5.1 How to playback

Step1. Select channel you want to do playback.

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

Step3. Select Date.

Step4. Click **b** to play.

#### Note:

📀 Milesight

Only the day with a red mark means that there are recorded files.



#### Video Playback Tool Bar Description



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

And take this bar above as an example, it means in this recording period, timing have been triggered.

Icons	Descriptions	lcons	Descriptions
	1 screen mode	Ħ	4 screens mode
*	Speed Down	$\blacktriangleright$	Play
П	Pause		Stop
	Forward Step	₩	Speed Up

∕F	Transcoding	Q	Digital Zoom
Ċ1	Snapshot	х	Backup
<b>√</b> ∂	Audio On	-())	Audio Off
2	Original Image	,×*	Resize Image

### 4.5.2 Transcoding

With transcoding function, remote playback will have a better performance no matter what network environment is.

Step1. After successfully search out or play video, select the channel you want to transcoding

and click  $\checkmark$  to expand trancoding panel.

Transcoding		×
Transcoding	On	$\sim$
Frame Size	704*576	$\sim$
Bit Rate	512kbps	$\sim$
Frame Rate	Auto	~
	Apply	

#### Step2. Set Transcoding parameters.

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.

### 4.5.3 Video Files Backup

Recorded files can be cut and backed up from WEB.

Step1. In playback interface, select camera, stream type, the date and time to search record video.

A	
🛓 💿 Milesight	
CAM3 CAM4	
CAMS CAMS	
CAM7 CAM8	
• CAM9 CAM10	1
C CAMI1 C CAMI2	
CAM11      CAM12      CAM13      CAM14      CAM15      CAM16	
	1
Select Max Clear All	1
Stream Type	2
Primary Stream	
( 2019 ) ( Jan )	
San Mon Tae Wed Tha Fri Sat	
10 11 1 2 3 4 5	
6 7 8 9 10 11 12 13 14 15 16 17 18 19	
21 21 22 23 24 25 26	
27 28 29 30 31 1 2 3 4 5 6 7 8 9	
General	
Event	
	Channel: 2 Statu: 000000 🔲 🖽 🚽 🖓 🖓 🖉
	enen orize este este este este orize troc este este orize 1160 1160 1160 1160 1160 1160 1160 116

#### Step2. Select Recorded files for Backup.

Click K, then select start time and end time by dragging the vertical line on the time bar.

CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME CAME	
Lance         Dates I May         Courte Flyge           Free Trype         Free Trype         Free Trype           Free Trype         Free Trype         Free Trype </td <td>Teri</td>	Teri
Event	Churrel 2 Statis 000000

Step3. Backup the recorded files.

Click To select file path, then click II to back up recorded files.

<b>=</b> (	Milesight							
	CAMI CAM2							
	CAM3 CAM4							
100	CAMS CAMS							
2	CAM7 CAM8							
	CAM9 CAM10							
	CAMI1 CAMI2							
× .	CAM13 C CAM14							
	CAM15 CAM16							
(÷		-						
	Select Max Clear All							
2 524	ream Type							
	imary Stream	1						
		-						
÷.	( 2019 ) ( Jan							
et 🚶	has Mon Tue Wed The Fri S							
	0 11 1 2 3 4 1							
	6 7 8 9 10 11 1 13 14 15 16 17 18 1							
- 2	25 21 22 23 24 25 2							
- 2	27 21 29 30 31 1 3 3 4 5 6 7 8 9							
						Start Time	End Time	Path >
						10: 35: 38	13:09:17	
	General Event				 	10:35:38	13:09:17	
	Evens	Channel: 2					9 DI X	
		E0.00 01.00						

## 4.5.4 Picture Files Backup

Step1. Browse a playback picture path in Local Configuration interface.

Local Configuration		
Record File Path	C:\Users\CC\WebView\RecordFile	Browse
Preview Picture Path	C:\Users\CC\WebView\LiveCaptureFile	Browse
Playback Picture Path	C:\Users\CC\WebView\PBCaptureFile	Browse
Connection Type	UDP	~
Play Mode	Least Delay	× .
Primary Stream When Fullscreen		
Save		

Step2. Click 🖸 to save the picture during video playback. Then the backup picture can be

#### found in the files path you set before.

#### Note:

It is recommended to run browser as administrator before getting playback snapshot.



### 4.6 Settings

### **4.6.1 Local Configuration**

Local Configuration includes Record File Path, Preview Picture Path, Playback Preview Path, Connection Type, Play Mode and Primary Stream When Fullscreen option.

	C:\Users\CC\WebView\RecordFile		
Record The Fath	C:/Users/CC/webview/kecoldrile		Browse
Preview Picture Path	C:\Users\CC\WebView\LiveCaptureFile		Browse
Playback Picture Path	C:\Users\CC\WebView\PBCaptureFile		Browse
Connection Type	UDP	$\sim$	
Play Mode	Least Delay	$\sim$	
Primary Stream When Fullscreen			
Save			

### 4.6.2 Camera

📀 Milesight

Before configuration, please ensure that camera is connected to the same network as your NVR and the network setting for your NVR is properly setup.

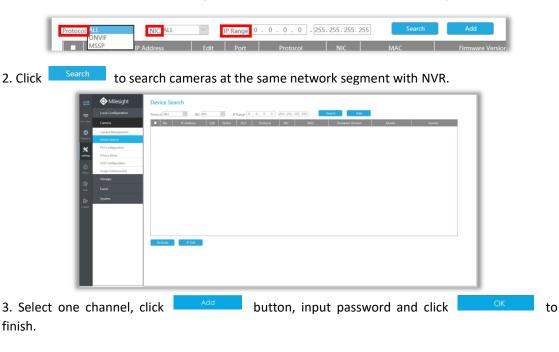
### 4.6.2.1 Camera Management

Ø Milesight	Camera Ma	anagement									
	Carnera Manager	Batch Mar	agement								
	Channel	4			Channel Name	CAN					
Camera Management	IP Address	-			Port.	80	14				
Device Search	User Name	admin			Password						
PTZ Configuration											
Privacy Mask	Transport Protocol				Time Setting	119	nc Time With NVR				
OSD Configuration	Protocol	ONVE		100							
Image Enhancement											
Storage	A55	Refresh	Delete								
	Channe	el Edit	Delete	Status	IP Address	Port	Protocol	MAC	Firmware Version	Model	Vendor
	□ 1	1	8	Connected	192.168.14.102	8081	ONVE	100316210991	40.7.0.67-VCA-pericettrack-a4	MS-C2952-FPB	Milesight Technology Co., Ltd.
	C 2	1		Connected	192,168,14,103	8083	ONVIE	100316219804	40.7.0.67-r1	MS-C2961-EB	Milesight Technology Co., Ltd.
									42.7.8.67-a4	MS-C9574-PB	Milesight Technology Co., Ltd.
	Tree Receiving Ban	vdwidth: 299.01Mb	95	Connected	192,168,14,105	8085	ONVE	100316220987	42.7.0.67-64	MS-09074-PE	Milesight receiveregy Co.(13).

#### Step1. Add Camera.

Method1. Add IP Channel in Device Search interface. 'Settings' → 'Camera' → 'Device Search'.
Select IP Range, NIC and Protocol, which includes ALL, ONVIF and MSSP.

**MSSP:** You can search out all Milesight camera which has different network segment in the LAN.



		A	dd Camera	
ЛАС	1cc3162106d5			
P Address	192.168.30.38			
Channel	2		Channel Name	CAM2
Jser Name	admin		Password	
ransport Protocol	UDP		Time Setting	Sync Time With NVR
Port	80			
Protocol	MSSP			
				OK Cancel

	Add Camera
User Name	admin
Password	****
Transport Protocol	UDP
	OK Cancel

#### Note:

- 1. If camera status shows inactive, please click Activate to active it first.
- 2. The steps for adding the third party PoE cameras plugged into Milesight PoE NVR:
- ① Set camera's IP segment to the same as NVR PoE NIC before plugging into PoE NVR;
- 2 Select PoE for NIC in Device Search interface, click search to search out cameras;
- 3 Select cameras and click Add to add them.

Method2. Add camera through camera management interface. 'Settings'  $\rightarrow$  'Camera'  $\rightarrow$  'Camera Management'.

Camera Management	Batch Management		
hannel	4	Channel Name	CAM4
P Address		Port	80
Jser Name	admin	Password	
ransport Protocol	UDP	Time Setting	Sync Time With NVR
rotocol	ONVIF		

Select channel id, input complete information, then click — There are three protocols available for camera connection: button.

• **ONVIF:** You can add any IP cameras with ONVIF protocols.

Camera Management	Batch Management	_		
Channel	4	$\sim$	Channel Name	CAM4
IP Address	192.168.8.100		Port	80
User Name	admin		Password	*****
Transport Protocol	UDP	$\sim$	Time Setting	Sync Time With NVR
Protocol	ONVIF	$\sim$		

 RTSP: You can add any IP cameras with RTSP protocol streams (Port: 554). It needs you to input complete resource path of the IP camera to add it. Take Milesight device for example, the resource path of main stream is "rtsp://IP:port/main" and second stream is "rtsp://IP:port/sub".

Camera Management	Batch Management		
Channel	4	Channel Name	CAM4
User Name	admin	Password	
Transport Protocol	UDP	Time Setting	Sync Time With NVR
Protocol	RTSP		
Primary	rtsp://192.168.8.100:554/main	Secondary	rtsp://192.168.8.100:554/sub

• MSSP: You can add Milesight cameras which are in the same LAN with this protocol.

Camera Management	Batch Management			
Channel	4	$\sim$	Channel Name	CAM4
P Address	192.168.8.101		Port	80
Jser Name	admin		Password	****
ransport Protocol	UDP	$\sim$	Time Setting	Sync Time With NVR
rotocol	MSSP	$\sim$		

#### Step2. Check the connection status.

After adding the IP channels, click Refresh on Camera Management interface, then appears under Status. If it doesn't appear, you need to check if the network is connected or whether the user name, password is correct or not.

	Channel	Edit	Delete	Status	IP Address	Port	Protocol		Firmware Version	Model	
ſ	1	1	Ŵ	Connected	192.168.8.150	80	ONVIF	1CC3162000EF	41.7.0.60	MS-C2862-FPB	Milesight Technology Co.,Ltd.
	2	1	Ŵ	Connected	192.168.8.135	80	ONVIF	1CC316211E78	41.7.0.60-r11-a1	MS-C4482-PB	Milesight Technology Co.,Ltd.
		~									

#### Step3. Configure IP Channel.

#### Configure one camera

After successfully adding the channel, click 4 to re-edit the channel info.

Settings	Parameters		
hannel	1	Channel Name	CAM1
Address	192.168.8.150	Port	80
lser Name	admin	Password	*****
ransport Protocol	UDP	Time Setting	Sync Time With NVR
rotocol	ONVIF		
			OK Cancel
			OK Cancer

to save the Select [Parameters] page to re-edit this channel parameters. Click configuration.

Settings	Parameters	_			
Channel Name	CAM2		Secondary Stream	Enable	
Video Codec	H.264		Video Codec	H.264	
Frame Size	1920*1080		Frame Size	640*480	
Max Frame Rate	25		Max Frame Rate	25	
Bit Rate	4096		Bit Rate	512	
Bit Rate Control	CBR		Bit Rate Control	CBR	
I-frame Interval	50		I-frame Interval	50	
Smart Stream	Off		Smart Stream	Off	
Audio	Disable				

You can delete this channel by clicking with, or you can select multiple devices and then click

to delete. 192.168.8.135 80

#### Batch configuring camera

- (	rI	i.	cl

Click Batch Management , select multiple channels and set cameras parameters.

	Camera Managemen	Batch Manager	neet								
Camera											
Camera Management	Transport Protocol	UDP	19	Secondary Stream	Dise	ble	100				
Device Search	Video Codec	H.264	150	Video Codec			Y				
PTZ Configuration	Frame Size	1920*1080	14	Frame Size			¥.				
Privacy Mask	Max Frame Rate	28	191	Max Frame Rate			14				
OSD Configuration	Bit Rate	4096	10	Bit Rate			V				
Image Enhancement	Bit Rate Control	CBR	1	Bit Rate Control			4				
Storage	I-frame Interval	60	54	I-frame Interval			~				
	Audio	Enable	14	Time Setting	0.5	ync Time With NVR					
	Save	Refresh D	olete								
System	Charvel	Edit 1	Delete Status	IP Address	Port	Protocol		MAC	Firmware Version	Model	Vendor
	<b>•</b> •	1	· Connected	192.168.14.162	8081	ONV#	1003	16210991	40.7.0.67-VCA-persontrack-a4	MS-C2952-FP8	Milesight Technology Co., Ltd.
	8 2		Connected	192.168.14.103	8083	ONV#		16219804	407.0.67-r1	MS-C2961-EB	Milesight Technology Co., LM.
	3	1	1 Connected	192.168.14.105	8085	ONVE	1003	16220987	42.7.8.67-#4	MS-C9674-PB	Milesight Technology Co., Ltd.

#### Note:

The user name and password entered here are the default user name and password. The management port is 80 and the default Transport protocol is UDP.

Step5. Configure PoE Channel(Only for PoE NVR)

1. Connect Milesight camera to PoE port, it will detect the camera automatically.

2. If the camera's password is the same with NVR admin password, it will be successfully authenticated and be changed into the same network segment with internal NIC IPv4 address, then the camera will be connected successfully.

3. If the camera's password is different with NVR admin password, the PoE channel will show

disconnect status. You need to input the camera's password by clicking Edit Authentication to realize

authentication (you can also multi-select the devices and then click this button). Then the camera will be changed into the same network segment with internal NIC IPv4 address and will be successfully connected. In next time, NVR will use the password you input to authenticate this camera when you re-plug it;

E	dit Authentication
User Name	admin
Password	•••••
Note: Edit authenticatio	n for selected cameras.
	OK Cancel

4. You can **access to PoE-connected cameras website** directly by clicking *(a)*, which can save much steps to configure cameras with complete settings which were unavailable.

	Carnera Management	Batch Management									
Camera	Channel	2	10	Channel Name		CAM2					
Centers Management	IP Address			Port		80					
Device Search	User Name	admin		Password							
PTZ Configuration	Transport Protocol	UDP	18	Time Setting		Sync Time	With NVR				
Privacy Mask.	Protocol	ONVE									
OSD Configuration											
image Enhancement	Ast	Refresh Delete	Edit Authenticati								
	Charved	Edit Delet	- A-		Access	Port	Protocol	MAC	Firmware Venion	Model	Vendor
		7 8	Disconnected	192.168.5.190	0	1	MSSP	10%	TITLET VITED		
		1 8	Connected	27.15423434	0	8081	ONVE	100316210991	40.7.0.57-VCA-persontrack-a4	MS-C2982-FPB	Milesight Technology Co.,Ltc
	0 4	/ 8	Connected	192.168.7.202	0	80	ONVE	100316220108	42.7.0.85	MS-C9674-PB	Milesight Technology Co.,Ltd

#### Note:

- ① Please enable Channel Access in Network->More first;
- ② Please select HTTP as transport protocol for PoE-connected cameras;
- ③ Please upgrade the NVR firmware version to xx.8.0.6 or above.

### 4.6.2.2 Device Search

• Milesight

	Camera		No.	IP Address	Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
	Camera Management		1	192.168.199.23	17	Active	80	MSSP	LAN	100316215058	417.0.55	MS-C3763-P8	Milesipht
-		0	2	192.168.5.190	1	Active	80	MSSP	LAN	10C3162460DC	40.7.0.67-11	MS-C2975-P8	Milesight
	Device Search	0	3	192.168.30.38	1	Active	80	MSSP	LAN	100316210605	40.7.0.58-r1	MS-C2963-PB	Milesipht
	PTZ Configuration		4	192.168.9.178	1	Active	80	MSSP	LAN	1003162378A4	40.7.0.68-test-motion-5	MS-C2962-RFIP8	Milesight
	Privacy Mask	0	5	192.168.40.13	1	Active	80	MSSP	LAN	100316232209	40.7.0.67-r14	MS-C2982-PB	Milesight
	OSD Configuration		6	192,168,199,69	1	Active	80	MSSP	LAN	100316200246	40.7.0.66	MS-C4463-PB	Milesight
	Image Enhancement		7	192.168.30.50	1	Active	80	MSSP	LAN	100316211158	40.6.0.56	MS-C4463-P8	Milesight
	Storage		8	192.168.199.22	1	Active	80	MSSP	LAN	1CC31621505C	41.7.0.66	MS-C3763-PB	Milesight
			9	192.168.5.190	1	Active	80	MSSP	LAN	1CC3162317FF	40.7.18.67-r1	1217	Alphafinity
			10	192.168.199.72	1	Active	80	MSSP	LAN	1CC316212969	41.7.0.66	MS-C4463-P8	Milesight
			-11	192.168.2.170	1	Active	80	MSSP	LAN	100316218803	40.7.0.67	M5-C2962-FP8	Milesight
			12	192,168.5.94	1	Active	80	MSSP	LAN	10031624F060	43.7.0.68	MS-C8172-FP8	Milesight
			13	192.168.4.199	1	Active	80	MSSP	LAN	1CC316201041	43.7.73.69-a2-vlproem		IPCAM
			- 14	192.168.32.131	1	Active	80	MSSP	LAN	10C31621A207	41.7.0.69-83	MS-C4453-P8	Milesight
			15	192.168.20.17	1	Active	80	MSSP	LAN	1CC31622078F	42.7.0.66	MS-C8262-FIP8	Milesight
			16	192,168,7,71	1	Active	80	MSSP	LAN	100316210030	41.7.0.68-r1	M5-C3762-FIP8	Mileiight

Select Protocol and NIC, set the IP range, then click to quickly search the IP devices that support selected protocol at the same LAN with NVR.



If the camera status shows Inactive, please select camera and click Activate to active it first before adding to NVR.

Besides, you can select channels and click **IP Edit** to **batch editing** their IP information.

	IP Edit
Start IP	192.168.10.140
Subnet Mask	255.255.240.0
Gateway	192.168.8.2
DNS	8.8.8
Port	80
User Name	admin
Password	
	OK Cancel

### 4.6.2.3 PTZ Configuration

Select a channel and set the PTZ parameters. You can select [Copy to Camera] to copy the same configuration to other channels.

PTZ Configur	ation	
Channel	1	$\sim$
Connection Type	ONVIF	$\sim$
Baud Rate	9600	$\sim$
Data Bit	8	$\sim$
Stop Bit	1	$\sim$
Checksum Bit	None	$\sim$
PTZ Protocol	PELCO_D	$\sim$
PTZ Address	1	
Copy to Camera		
Save		

#### Note:

- 1. The PTZ protocol and address of IP channel must be consistent with those of the PTZ decoder.
- 2. Settings for a PTZ camera must be configured before it can be used. Make sure that the PTZ and RS-485 of the NVR are connected properly.

### 4.6.2.4 Privacy Mask

Milesight NVR support to set privacy masks. It is used to cover some privacy area which is not proper to appear on monitor.

=	Milesight	Privacy Mask
ration and	Local Configuration	121
9	Carriera Camara Management	A was first
Parton	Device Search	
×	PTZ Configuration Privacy Mask	
*	OSD Configuration	
100	Image Enhancement Storage	Clannel 1
5	Event	Privacy Mask Enable
G.	System	Type Base
Laborate and		Copy To Canana 📃 🔺
		SelectAll
		See

You can add a privacy mask by following steps:

Step1. Select channel and enable privacy mask.

Step2. Set the privacy mask type and drag the mouse to select the area which is privacy on the live window. You can add 4 areas at most.

Privacy Mas	K	
	59: 41. Milesight	
Channel	1	$\checkmark$
Privacy Mask	Enable	$\checkmark$
Туре	Blue	$\sim$
Clear All		

Step3. You can click [Copy to Camera] to copy the same configuration to other channels.

Copy To Camera	<b>^</b>	
Select All		
■1 ■2 □3 □4 □	5 . 6 . 7 . 8 . 9 . 10 . 11 . 12 . 13 . 14 . 15 . 16	
□ 17 □ 18 □ 19 □ 20 □	21 🗌 22 🗌 23 🗌 24 🗋 25 🗌 26 🗌 27 🗌 28 🗌 29 🔲 30 🔲 31 🔲 32	
□ 33 □ 34 □ 35 □ 36 □	37 🗌 38 🗌 39 🗌 40 🗌 41 🗌 42 🗌 43 🗌 44 🔲 45 🔲 46 🛄 47 🛄 48	
□ 49 □ 50 □ 51 □ 52 □	53 . 54 . 55 . 56 . 57 . 58 . 59 . 60 . 61 . 62 . 63 . 64	
Save		

Step4. Select "Save" to save the settings.

### 4.6.2.5 OSD Configuration

You can set OSD (On Screen Display) on NVR, and the OSD will be synchronized to Camera.

-	Milesight		
₩.	winesignt	OSD Configu	ration
÷		Channel	3
Line Vers		Video Stream	All Streams
0	Camera Management	Show Video Title	Enable
Paytest	Device Search	Video Title	Milesight
*	PTZ Configuration	Title Position	Top-Left
Samage	Privacy Mask	Show Timestamp	Enable
*	OSD Configuration	Date Format	VYYY-MM-DD
Table .	Image Enhancement	Date Position	Top-Left
		Copy to Camera	
UK Lege		Save	
G-		1400	
Lagrant	1900-000		

Select channel and finish the info and save.

[Video Stream]: Select stream. All Streams, Primary Stream and Secondary Stream are available. [Show Video Title]: Enable it and the video title will be shown on screen.

[Video Title]: Set the video title for the channel.

**[Title Position]:** Set the position for the video title: Top-Left, Top-Right, Bottom-Left or Bottom-Right.

[Show Timestamp]: Enable or disable timestamp.

[Date Format]: Set format for date: YYYY-MM-DD, MM/DD/YY or DD/MM/YYYY.

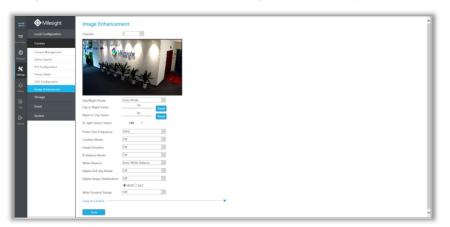
[Date Position]: Set the position for the date: Top-Left, Top-Right, Bottom-Left or Bottom-Right.

You can also click [Copy to Camera] to copy the same configuration to other channels.

OSD Configur	ation
Channel	1 🗸
Video Stream	All Streams
Show Video Title	Enable
Video Title	Milesight
Title Position	Top-Left
Show Timestamp	Enable
Date Format	YYYY-MM-DD
Date Position	Top-Left
Copy to Camera	· · · · · · · · · · · · · · · · · · ·
Save	

### 4.6.2.6 Image Enhancement

You can set Image Enhancement on NVR, and the configuration will be synchronized to Camera.



Step1. Select channel.

Step2. Set the configuration.

Day/Night Mode: Set the Day/Night mode for the channel.

Day to Night Value: Set the Minimum illumination intensity to trigger Night Mode.

**Night to Day Value:** Set the Maximum illumination intensity to trigger Day Mode.

**IR Light Sensor Value:** Shows the current value of IR light sensor.

Power Line Frequency: 50Hz and 60Hz are available.

Corridor Mode: Set corridor mode.

Image Rotation: Set image rotation.

IR Balance Mode: Turn on to avoid IR overexposure.

White Balance: Choose a white balance mode for the channel.

Digital Anti-fog Mode: Set the Anti-fog function on and off.

WDR/HLC: Click to configure Wide Dynamic Range or High Light Control.

Step4. You can click [Copy to Camera] to copy the same configuration to other channels.

```
      Copy to Camera

            Select All
            1
            2
            3
            4
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            12
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            49
            50
            51
            52
```

### 4.6.3 Storage

Preparation for Configuration

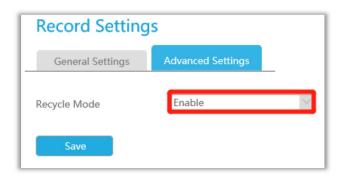
Step1. Ensure that your NVR has installed and initialized the HDD or Network Disk.

	Milesight	Disk Managemer	nt						
		HDD Management	Network Disk						
		Pot	Vendor	Status	Total(GII)	Free(GII)	Туре	Property	Dekte
2		D 1	\$T1000VXD00-165162	Normal	93108	17868	LOCAL	R/W 12	1.0
Г	Record Schedule	Total Capacity(G8)	931						
	Record Settings	Free Capacity(G8)	178						
	Disk Management	Referant Save	Initialize						
	System								
L									
•									
L									
L									
L									
L									
L									
L									
L									
L									

Step2. Ensure that Storage device has sufficient storage space.

Enable [Recycle Mode] in the case of insufficient capacity of storage device on Storage -> Disk Management -> Advanced Settings interface .





### 4.6.3.1 Record Schedule

#### **Record Schedule**

Step1. Select Record Schedule. Step2. Select the desired channel.

=	Milesight	Record Schedule	
=		Record Schedule Batch Settings	
Ling Verse		Chantered	
S) Frances	Storage	Continuous 3 Clear All	
×	Record Schedule Record Settings	5 0 10 12	2. 14 16 10 20 22 24
Satisy	Record Settings Disk Management	Sun 6 10 17	2 14 15 15 20 22 24
*	Event	Mon 10 10 10 10 10 10 10 10 10 10 10 10 10	2 14 15 18 20 22 24
Tetra		Tue 13 0 10 12	2 14 15 19 20 22 24
8		Wed 15	2 14 16 18 20 22 24
		Thu 10	2 14 15 18 20 22 24
E.		Fri 21	2 14 16 18 20 22 24
		Sat 23	2 14 16 18 20 22 24
		Holiday 26 27	
		Copy to Censera - 33	
		Save	

#### Step3. Set record schedule.

Select record type including Continuous, Event, Motion Detection and Alarm, then set the time

you want to record. It is convenient for you to set or clear all schedule by clicking

Select All Or

Clear All



Also, you can click the time bar and reedit the record time

0	2	4	6	8	02	: 51		× : 00	18	20	22	24
0	2	4	6	8	10	12	te   Save	16	18	20	22	24

Click 💼 to copy time setting to other days.

Ĭ	I I	I I	1 Ť	i ĭ	1	Continuous		1 1	10		<b>6.6</b>	
0	2	4	6	8	1_00	0:00 - 24:00	l ,	16	18	20	22	24
				_								

Click [Copy to Camera] to copy the same configuration to other channels.

Copy	Copy to Camera												-			
🗌 Sec	lect All															
1	2	3	4	5	6	7	8 🗌	9	□ 10	□ 11	12	13	14	□ 15	□ 16	
□ 17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	

#### **Batch Settings**

Record and Stop are available for user to set or clear always record schedule for selected channels.

	Record Schedule	Batch Settings						
	Ournel	Record	10000	Channel	Record	Stop 🗌		
	Off	Record	Stop []	Charmel O103		Mop		
	012			CH34				
Record Schedule	CH3			0135				
Record Schedule	014			0406				
Record Settings	06			CH37				
	0.6			CH38				
Disk Management	047			CH39				
Event	0.18			C1140				
	CH9			CH41				
System	CH10			CH42				
Sector Contraction of	Of11			CH43				
	CH12			CH44				
	CH13			C145				
	CH14			CH46				
	CH15			CH47				
	CH16			CH48				
	CH17			CH49				
	CH18			CH50				
	CH19			CHS1				
	CH20			CH52				
	CH21			CH53				
	CH22			CH54				
	CH23			CH55				
	CH24			CH56				
	0125			CH57				
	CH26			CHSB				
	0127			CH59				
	CH28			CH60				
	CH29 CH30	-		CH61 CH62				
	081			0162				
	CH32			CH63				
	CH32	-		C/164				

### 4.6.3.2 Record Settings

Make record settings for selected channels.

#### **General Settings**

Record Setting	S	
General Settings	Advanced Settings	
Channel	1	$\sim$
Pre Record	Disable	$\sim$
Post Record	Disable	$\sim$
Audio Record	Enable	$\sim$
Record Stream Type	Primary Stream	$\sim$
Video Due Time	Unlimit	$\sim$
Picture Due Time	Unlimit	$\sim$
Copy to Camera		
Save		

Channel: Select the channel which will be set.

Pre Record : Event pre-record duration time. It will start recording before the event is triggered.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. Primary+Secondary Stream is available for NVR model ends with T only.

Due Time: Enable or unlimit the due time.

Expired Time: Set the due time of recording files.

Click [Copy to Camera] and 📒 to copy the same configuration to other channels.

Сору	to Cam	era —													- 🔺
🗆 Sec	clect All														
1	2	3	4	5	6	□7	8 🗌	9	□ 10	□ 11	12	□ 13	□ 14	□ 15	□ 16
□ 17	□ 18	□ 19	20	21	22	23	24	25	26	27	28	29	30	31	32



#### Advanced Settings

Enable or disable Recycle Mode for all storage device.

Record Setting	S
General Settings	Advanced Settings
Recycle Mode	Disable Enable
Save	

### 4.6.3.3 Disk Management

You can check Disk status and add Network Disk here.

#### **HDD Mangement**

**Property:** R/W and Read-only are available for this option.

#### Note:

Initializing the HDD before you set record schedule to ensure that record properly works.

Erec(CP)	Turne	Dramath	Delet
215GB	LOCAL		Delet
	Free(GB) 215GB		

#### Network Disk

NAS (Network-Attached Storage) should be available within the network and properly configured to store the recorded files and snapshots.

#### Note:

- ① NAS with NFS format is the only type for network disk adding.
- ② It's recommended to use Hard Disk rather than Network Disk.

_		
=	Milesight	Disk Management
-		HDD Management Network Disk
Long View		Dick Name
9	Storage	P Addres
Paytest	Record Schedule	Directory
×	Record Settings	Type NAS
Satings	Disk Management	
*		Add Butch Add Delete
Inte		No. Edit Delete Disk Name IP Address Directory Type
12		
legi		
E•		
Sugar		
		1

You can add it manually or search local NAS by clicking

	Network Disk Searc	h	_
Type NAS 🗹 Server Add	iress		Search
	File Path		
			_
		Add	Cancel

### 4.6.4 Event

### 4.6.4.1 Motion Detection

=	Milesight	Motion Detection
÷.	Local Configuration	Channel 1
LosVer	Camera	Sensibility S III
9	Storage	Motion Peraction Section
Paytest	Event	
*	Motion Detection	Set Al. Clear Al
Sativy	Video Loss	
*	Alarm Input	
	Alarm Output	A Harrisola
	Exception Senart Event	
	ŝplan	Decis Trans 00 Alton 20 Cept Cases •

Step 1. Enable Motion Detection.

Select channel , Sensitivity and click 📮 to enable Motion Detection.

Channel	1	$\sim$
Sensitivity	5	$\sim$
Motion Detection		

#### Step2: Set the area for triggering motion detection.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking set All and clear All.

Set Motion Region:		
Set All	Clear All	
Milesight 2018-10-22/17 10-22/17		

#### Step 3. Set Effective Time of motion detection by clicking

NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Select All         Clear All           0         2         4         6         0         12         14         15         10         22         22           Mon         0         2         4         6         0         10         12         14         15         10         20         22           Mon         0         2         4         6         0         10         12         14         15         10         20         22           Tue         0         2         4         6         0         10         12         14         15         10         20         22           Tue         0         2         4         6         0         10         12         14         15         10         20         22           Tue         0         2         4         6         0         10         12         14         15         10         20         22
Sun 0 2 4 6 0 10 12 14 16 10 20 22 Mon 0 2 4 6 0 10 12 14 16 10 20 22 Tue
Mon 0 2 4 6 9 10 12 14 16 19 20 22 Tue
0 2 4 6 8 10 12 14 16 18 20 22 Tue
Wed 0 2 4 6 8 10 12 14 16 18 20 22
Thu
Fri
0 2 4 6 8 10 12 14 16 18 20 22 Sat
0 2 4 6 8 10 12 14 18 18 20 22 Holiday

#### Step 4. Set Action for motion detection alarm by clicking

Audible Warning: NVR will trigger an audible beep when motion is detected.



Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings.

Select All

What's more, you can click time bar to edit the time accurately.

Click 💷 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Audible Warning		Emai	Linkage	5	AI	arm Ou	tput	-	Othe	rs	_			
Select A	MI	Clea	All											
Sun	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	
Mon	0	2	4	6	8	10	12	14	16	18	20	22	24	
Tue		2	4	6	8	10	12	14	16	18	20	22	24	
Wed														
Thu	-	2	4	6	8	10	12	14	16	18	20	22	24	
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24	
Sat	0	2	4	6	8	10	12	14	16	18	20	22	24	
Holiday	0	2	4	ę	8	10	12	14	16	18	20	22	24	
Tionady														
Triggered I	nterval		20s											
										OK		Cance		Ap

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

Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings.

Select All

What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

udible Warning					AI	arm Out	tug		Othe	rs			
in a second s								-					
Select All		Cle	ar All										
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	0	2	4	6	. 0	10	12	14	16	18	20	22	24
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	0	2	4	6	8	10	12	14	18	18	20	22	24
Sat	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
Triggered Int	erval		20s						-	ОК	_		_

Alarm Output: Trigger alarm output when alarm is triggered.





Others: Trigger other channels record when alarm is triggered.



Step 5. Click [Copy to Camera] and 💻 to copy the same configuration to other channels.



### 4.6.4.2 Video Loss

#### Step1. Select a channel

	amera torage vent totion Detection	ActionAuditle WarningCe		Ala	ns Output					
	vent			Ala	m Output	_				
4 K	80.72	Select All Cie								
•	totion Detection									
			10							
	ideo Loes	Sun D 2	12 Ø	10	12 14	. 19	10	20	22	24
	larm input	Mon	15	10	12 14	. 9	18	20	22	24
- A	larm Output	2 2	16 17 8	10	12 14	15	18	20		28
- 14	naption	Tue		10						1
Se Se	mart Event	Wed	21							
	ystem	Thu 0 2	23	10	12 14	16	18	20	22	28
		Fri D T	25 8	10	12 14	. 18	18	20	12 .	28
		Sat P 7	27 28 9	10	17 . 14	. 0.	н.,	20	Ψ.,	18
		Sat 0 2	29 ¥ 30 ×	10	12 14	14	19	20	12	
		Holiday								í –
			204							
		Trigger Interval	204							
		Copy To Camera								*

#### Step2. Set Action for video loss.

Audible Warning: NVR will trigger an audible beep when alarm is triggered. Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings. What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Audible		9	cina	il Linka	ige	1	Alarm Ou	nput					
Select A		Clear	r All										
	0	2	4	6	8	10	09 :	25 -	19:3	× 7	20	22	24
Sun							1 1	Delete	Save				
Mon	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
Tue													
	0	2	4	6	8	10	12	14	16	18	20	22	24
Wed													
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
ma	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	Ť	Ť		Ť	i Ť								-
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sat													
	0	2	4	6	8	10	12	14	16	18	20	22	24
Holiday													

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

Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 💷 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Audible \	r an r n	ing			Email Linkage					Alarm Output 00 : 00 - 24 : 00 Delete   Save												
Select Al	·		Cle	ar A	All				<													
	0		2		4		6		8		10		12	14		16		18	21	ί.	22	24
Sun																						
Mon	0	1	2	a'	4	ĩ	6	a.	8	×.	10	4	12	14	ä	16	1	18	2		22	24
	0		2		4		6		8		10		12	14		16		18	21		22	24
Tue																						
Wed	0	ũ.	2		4	4	6	4	8	i.	10		12	14	4	16	1	18	2		22	24
	0		2		4		6		8		10		12	14		16		18	21		22	24
Thu														1 1								
Fri	0	i.	2		4	4	6	a.	8	1	10		12	14	4	16		18	2		22	24
	0		2		4		6		8		10		12	14		16		18	21		22	24
Sat		1									ĺ.		1				1	1		1	1	
	0	î.	2	1	4	4	6	40	8	4	10		12	14	- 11	16	τ.	18	2	÷.,	22	24
Holiday																						

Alarm Output: Trigger alarm output when alarm is triggered.



Step 3. Click [Copy to Camera] and 📒 to copy the same configuration to other channels.

Сору	to Cam	era –													
🗆 Sel	ect All														
1	2	3	4	5	6	□7	8 🗌	9	□ 10	□ 11	□ 12	□ 13	□ 14	□ 15	16
□ 17	□ 18	🗌 19	20	21	22	23	24	25	26	27	28	29	30	31	32

# 4.6.4.3 Alarm Input

Alarm Input function is supported by MS-N5008-UT, MS-N5016-UT, MS-N7016-UH, MS-N7032-UH, MS-N8032-UH, MS-N8064-UH, MS-N5008-UPT, MS-N5016-UPT, MS-N7016-UPH and MS-N7032-UPH.

Step1. Set Alarm input Number, Alarm Name and Alarm Type.

Alarm Input Se	ttings				
Alarm Input No.	A<-1	$\sim$	Alarm Type	NO	$\sim$
Alarm Name		(cannot c	сору)		

Alarm Input No.: The channel which has input signal.

Alarm Name: Set a name for the alarm.

Alarm Type: Choose NO or NC alarm type for the alarm.

# Step2. Set action for alarm input.

Channel Record: Start recording when alarm is triggered.

Trigger Channels Record
Select All
_ 17 _ 18 _ 19 _ 20 _ 21 _ 22 _ 23 _ 24 _ 25 _ 26 _ 27 _ 28 _ 29 _ 30 _ 31 _ 32
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
_ 49 _ 50 _ 51 _ 52 _ 53 _ 54 _ 55 _ 56 _ 57 _ 58 _ 59 _ 60 _ 61 _ 62 _ 63 _ 64

**Trigger Channels Record:** Trigger selected to record when alarm is triggered. Don't forget to set record schedule in Storate -> Record Schedule interface.

**Copy to Alarm:** Copy alarm settings to other channels which has alarm input.

Copy to A	larm								-
Select .	All								
A<-1	A<-2	□ A<-3	□ A<-4	□ A<-5	□ A<-6	□ A<-7	□ A<-8	□ A<-9	□ A<-10
□ A<-11	□ A<-12	□ A<-13	□ A<-14	□ A<-15	□ A<-16				

Audible Warning: NVR will trigger an audible beep when alarm is triggered. Trigger Interval: The effective interval between two actions when event triggered.

Channe	Recor	d	Audit	ole War	ning	E	mail Lini	cage		Alarm (	Dutput		
Select /	All	Cle	ar All										
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	0	2	. 4	6	8	10	12	14	16	18	20	22	24
Tue	0	2	. 4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	. 4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24
Sat	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
Holiday													

Click [Copy to Alarm] and 📒 to copy the same configuration to other channels.

Copy to A	larm —								<b>_</b>
Select .	All								
A<-1	A<-2	🗌 A<-3	🗌 A<-4	🗌 A<-5	□ A<-6	□ A<-7	□ A<-8	□ A<-9	□ A<-10
🗌 A<-11	□ A<-12	🗌 A<-13	🗌 A<-14	🗌 A<-15	□ A<-16				

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

Trigger Interval: The effective interval between two actions when event triggered.

Trigger Channels Snapshot: The snapshot of selected channels will be sent when alarm is triggered.

Channe	Reco	ord			Aud	ible	Wa	ming			Er	nail I	Linka	ge		Alarm C	Dutput		
Select /	All		Cl	ear	All														
	0						a				0	13		14	16	18	20	22	24
Sun	-		2		4		6	4	8	1	0	14		14	10	10	20	22	24
Mon	0		2		4		6	1	8	1	0	13	2	14	16	18	20	22	24
	0		2		4		6	. 1	8	1	0	12	2 .	14	16	18	20	22	24
Tue																			
Wed	0		2		4		6	1	8	1	0	12	2	14	16	18	20	22	24
Thu	0		2		4		6	1	8	1	0	12	2	14	16	18	20	22	24
mu	0		2		4		6	1	8	1	0	13	2	14	16	18	20	22	24
Fri																			
Sat	0		2		4		6	1 1	В	1	0	13	2	14	16	18	20	22	24
	0		2		4		6	1	в	1	0	13	2	14	16	18	20	22	24
Holiday																			
				_															
ggered In	terva	I.		20	)s		1	/											
gger Chai	nnels	Sna	psh	ot															
1 🗆 2		3	4		5		6	7		8 🗆		9	1	0 🗆 1	1 🗆 12	2 🗆 13	14	15	16
			_		7.04	-	22				-	25			7 🗆 20	3 🗆 29	20		

Click [Copy to Alarm] and 📒 to copy the same configuration to other channels.





Alarm Output: Trigger alarm output when alarm is triggered.



# 4.6.4.4 Alarm Output

Alarm Output function is supported by MS-N5008-UT, MS-N5016-UT, MS-N7016-UH, MS-N7032-UH, MS-N8032-UH, MS-N8064-UH, MS-N5008-UPT, MS-N5016-UPT, MS-N7016-UPH and MS-N7032-UPH.

	Local Configuration	Alarm O		A->1			10			arm Type		N			<i>.</i>	
		Delay		58			10			arm Type				_		innat copy)
									~	serm Nam	17			(cannot c		opy
		Select All	Cla	e Al												
		Sen	0 . z	÷.,	6	٤.,	10 1	2 14	18	10	20	12	24			
٤.	Motion Detection		0 2		6	۰.	10 1	E . 14	. 18	18	20	22	24			
1	Video Loss	Mon					10 1	2 14	18	10	20	22				
	Alarm input	Tue		-												
	Alarm Output	Wed	0 2			-	-			-						
	Exception	Thu	0 2		8	ŧ.,	10 1	E _ 14	- 18	18	20	22	24			
	Smart Event System	14	0 7	6	÷.,	٤.,	10 1	2 14	. 18	18	20	22	24			
	System		0.2		÷.,	۰.	10 1	2.14	. 19	. 10	20	22	24			
		Sat	0 7	4			10 1	2 14	18	18	20	12	24			
		Holiday														
		Copy to Alarm														
			11.114													
		Save														

Step 1. Set Alarm output channel, Alarm Type, Delay and Alarm Name.

Alarm Outp	ut Settings				
Alarm Output	A->1	$\vee$	Alarm Type	NO	$\sim$
Delay	5s	$\sim$	Alarm Name		(cannot copy)

Alarm Output: The channel which will output the alarm signal.

Alarm Type: Select alarm type: NO or NC.

**Delay:** Set the output time for alarm. If the output alarm lasts too long, you can select the Manually Clear to stop it.

Alarm Name: Set a name for the alarm.

Step 2: Set effective time.

Select A		Clea											
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	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
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24
Sat		2	4	6	8	10	12	14	16	18	20	22	24
Holiday		-	i i	i i	1	1 1							

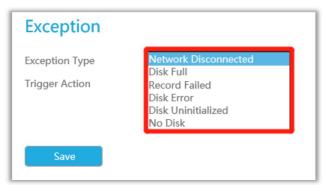
Step3. Click [Copy to Alarm] and 📒 to copy the same configuration to other alarm channels.

Copy to Alarm	<b></b>
Select All	
1 2 3 4	

# 4.6.4.5 Exception

Local Ver Came Store Vert Karp	eget & Save	Network Discovented  C Additiv Network Discovented Dis
View Carno Store View Event Nage Mode Video	era and and a source of the so	
rbert Event Kange Video	t Save	E final Linkspe
rbert Event Kange Video	t Save	
Motio Video	on Detection	
Video		
Alarra	o Loss	
	n Ingsut	
Alarro	n Output	
2 terp		
	t Event	
E# System	am	
974		

Step1. Select Exception Type.



Network Disconnected: Loss of network.

Disk Full: HDD full, it usually happens when Recycle Mode is OFF.

**Record Failed:** Recording fails, including HDD Failed, HDD Full and so on.



**Disk Error:** Failed to recognize HDD. **Disk Uninitilized:** HDD is uninitialized. **No Disk:** There is no Disk.

Step 2. Select normal linkage includes Pop up Alarm, Audible Warning and Email Linkage.Audible Warning: NVR will trigger an audible beep.Email Linkage: An alarm Email will be sent if an alarm is triggered.

# 4.6.4.6 Smart Event

Smart Event uses Milesight Video Content Analysis technology which is applied in a wide range of domains including entertainment, health-care, retail, automotive, transport, home automation, safety and security. Milesight VCA provides advanced, accurate smart video analysis for Milesight network cameras. It enhances the performance of network cameras through 10 detection modes which are divided into basic function and advanced function, enabling the comprehensive surveillance function and quicker response of cameras to different monitoring scenes.

#### Note:

Please input license of selected channel in Settings page to activate Smart Event first.

#### **Region Entrance**

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

₽	Milesight	Smart Event
-	Local Configuration	Region Extension Region Exiting Advanced Matrion Det., Tamper Detection Line Crossing Loitering Human Detection People Counting Object Left/Removed Settings
Line Vere	Camera	Oamd Sent
9	Storage	Crawed 3
Patent	Event	Region Entrance
×	Motion Detection	Pageo sen og
*	Video Loss Alam input	
internal	Alarm Output	
D.	Deception	
14	Smart Event	
E-	System	
		Set Al. Clear Al
		(vent seniog.
		Effective Los
		Action (de
		See .

#### Step 1. Select channel.

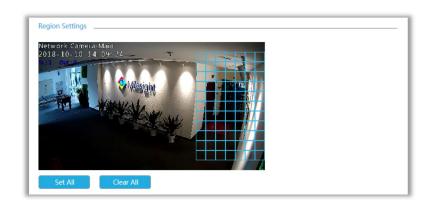
Step 2. Enable Region Entrance.

Region	Entrance	
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#### Step 3. Set entrance detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking set All and clear All.





# Step 4. Set Effective Time of region entrance by clicking

NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

0         2         4         6         0         10         12         14         15         10         20         22         24           Sun         0         2         4         6         0         10         12         14         16         10         20         22         24           Mon         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         7         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Med         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24 </th <th>0         2         4         6         9         10         12         14         15         10         20         22         24           Sun         0         2         4         6         0         10         12         14         16         10         20         22         24           Mon         0         2         4         6         0         10         12         14         16         10         20         22         24           Ue         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Thu         0         2         4         6         0         10         12         14         15         10         20         22         24           Fri         0         2         4         6         0         10         12         14         15         10         20         22         24</th> <th>Select Al</th> <th></th> <th>Cles</th> <th>ar All</th> <th>1</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	0         2         4         6         9         10         12         14         15         10         20         22         24           Sun         0         2         4         6         0         10         12         14         16         10         20         22         24           Mon         0         2         4         6         0         10         12         14         16         10         20         22         24           Ue         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Thu         0         2         4         6         0         10         12         14         15         10         20         22         24           Fri         0         2         4         6         0         10         12         14         15         10         20         22         24	Select Al		Cles	ar All	1									
Sun         0         2         4         6         0         10         12         14         16         10         20         22         24           Mcm         0         2         4         6         0         10         12         14         16         10         20         22         24           Mcm         0         2         4         6         0         10         12         14         16         10         20         22         24           Mcm         0         2         4         6         0         10         12         14         16         10         20         22         24           Mcm         0         2         4         6         0         10         12         14         16         10         20         22         24           Mcm         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         <	Sun     0     2     4     6     0     10     12     14     16     10     20     22     24       Mcn     0     2     4     6     0     10     10     10     10     20     22     24       Mcn     0     2     4     6     0     10     12     14     16     10     20     22     24       Mcn     0     2     4     6     0     10     12     14     16     10     20     22     24       Mcn     0     2     4     6     0     10     12     14     16     10     20     22     24       Mcn     0     2     4     6     0     10     12     14     16     10     20     22     24       Mcn     0     2     4     6     0     10     12     14     16     10     20     22     24       Fit     0     2     4     6     0     10     12     14     16     10     20     22     24       Sat     2     4     6     0     10     12     14     16     10     20	Selective		cice											
Mon 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mon 6 7 7 1 6 7 7 1 7 1 7 1 7 1 1 1 1 1 1 1	Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
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Wed         0         2         4         6         8         10         12         14         16         18         20         22         24           Thu         0         2         4         6         9         10         12         14         16         10         20         22         24           Fri         0         2         4         6         9         10         12         14         16         10         20         22         24           Sat         0         2         4         6         9         10         12         14         16         10         20         22         24           G         2         4         6         9         10         12         14         16         10         20         22         24           Sat         0         2         4         6         9         10         12         14         16         10         20         22         24	Wed         0         2         4         6         8         10         12         14         18         18         20         22         24           Thu         0         2         4         6         9         10         12         14         16         10         20         22         24           Fit         0         2         4         6         9         10         12         14         16         10         20         22         24           Sat         0         2         4         6         9         10         12         14         16         10         20         22         24           0         2         4         6         9         10         12         14         16         10         20         22         24           0         2         4         6         9         10         12         14         16         10         20         22         24           0         2         4         6         9         10         12         14         16         10         20         22         24	Tue	0	2	. 4	6	8	10	12	14	16	18	20	22	24
Thu 0 2 4 6 0 10 12 14 16 10 20 22 24 Fri 0 2 4 6 0 10 12 14 16 10 20 22 24 Saft 0 2 4 6 0 10 12 14 16 10 20 22 24	Thu 0 2 4 6 9 10 12 14 16 10 20 22 4 Fri 0 2 4 6 9 10 12 14 16 10 20 22 4 Saft 0 2 4 6 9 10 12 14 15 10 20 22 4 0 2 4 6 9 10 12 14 15 10 20 22 24	Wed	0	2	. 4	6	8	10	12	14	16	18	20	22	24
Fri Sat 0 2 4 6 0 10 12 14 16 10 20 22 24 0 2 4 6 0 10 12 14 16 10 20 22 24	Fri Sat 0 2 4 6 0 10 12 14 16 10 20 22 24 0 2 4 6 0 10 12 14 16 10 20 22 24	Thu	0	2	. 4	6	8	10	12	14	16	18	20	22	24
Sat 0 2 4 6 8 10 12 14 16 18 20 22 24	Sat 0 2 4 6 8 10 12 14 16 18 20 22 24	Fri	0	2	. 4	6	8	10	12	14	16	18	20	22	24
		Sat	0	2	4	6	8	10	12	14	16	18	20	22	24
		Holiday	O	2	. 4	6	8	10	12	14	16	18	20	22	24

# Step 5. Set Action for region entrance alarm by clicking

Audible Warning: NVR will trigger an audible beep when region entrance is detected.

Drag a line on the time table for time setting, it will be more convenient by clicking

or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Audible Warnin	9	Email	Linkag	e	AI	arm Out	put		Othe	rs			
Select	All	Clear	All										
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	o	2	4	6	8	10	12	14	16	18	20	22	24
Tue	0	2	4	6	8	10	12	- 14	16	18	20	22	24
Wed	o	2	4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24
Sat	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
Triggered I			20s										



Email Linkage:NVR will send an email to the address you set before.Drag a line on the time table for time setting, it will be more convenient by clickingorClear Allto set or clear all time settings.What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Audible Warning				e		Alarr	m Out	but		Other	rs			
Select A	JI I	Clea	ir All											
Sun	0	2	4	6	8		10	12	14	16	18	20	22	24
	0	2	. 4	6			10	12	14	16	18	20	22	24
Mon	0	2	4	6	8		10	12	14	16	18		22	24
Tue		2	1	0		,	10	12	14	10	10	20	22	24
Wed	0	2	4	6	8		10	12	14	16	18	20	22	24
wed	0	2	4	6	8		10	12	14	16	18	20	22	24
Thu											10			
Fri	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
Sat														
Holiday	0	2	4	6	8		10	12	14	16	18	20	22	24
Triggered Ir	nterval		20s											
00											ОК		Cance	a 👘

Alarm Output: Trigger alarm output when alarm is triggered.

Audible Warning E	mail Linkage	Alam Output	Others	K Can	cel Appł
Trigger Alarm Output		2 3 4	0	K Can	cel Appł
rigger com coupur			O	K Can	cel Appt

Others: Trigger other channels record when alarm is triggered.





#### **Region Exiting**

Region exiting is to make sure that any person or object won't exit the area that is being monitored. Any exit of people or objects will trigger an alarm. **Step 1. Select channel.** 

=	Milesight	Smart Event
		Region Fotunes Region Exting: Advanced Marlos Data, Tampar Dataction Line Grossing Lobering Haman Dataction, People Counting Object Lab/Removed Settings
		Ournel Event
9		Channel 3
	Event	Region Exiling
	Motion Detection	Region Sentings
	Video Loss	20 CH2 ZIME SUCHS STAT
	Alarm Input	THE TRADE AND IN
	Alarm Output Exception	
	Smart Event	
	System	
		Forst Serieg
		Effective Tana Edu
		Action Edd
		See

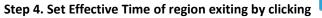
#### Step 2. Enable Region Exiting.

Region	Exitina		
			_

### Step 3. Set exit detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking set All and clear All.





NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Select Al			Clear	AJI												
Sun	0	. 3	2	4		6	. 4		10	12	14	16	18	20	22	24
Mon	0	. 1	2	4		6		B	10	12	14	16	18	20	22	24
Tue	0		2	4		6			10	12	14	16	18	20	22	24
Wed	0		2	4		6	. 4	3	10	12	14	16	18	20	22	24
Thu	0		2	4		6	. 8		10	12	14	16	18	20	22	24
Fri	0		2	4	- fi	6	. 4		10	12	14	16	18	20	22	24
Sat	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
													ОК	_	Cance	
													UN		Curret	

Step 5. Set Action for region exiting alarm by clicking

Audible Warning: NVR will trigger an audible beep when region exiting is detected. Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Audible Warnin		Energy	l Linkag		AL	irm Out			Othe				
	9	LINA	i unitag		746	inn oac	put	-	orne	1.5			
Select	All	Clea	r All										
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	o	2	4	6	8	10	12	- 14	16	18	20	22	24
Tue	0	2	. 4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24
Sat	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
Triggered	Interval		20s										
									_	ОК	_	Cance	_

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

Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click ^{to} to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Audible Warning							Ala	m Out	trut		Othe	rs			
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Select A		Clev	ar All												
_	_														
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Jun	0	2	. 4		6		8	10	12	. 14	16	18	20	22	24
Mon															
Tue	0	2	4		6	. 1	8	10	12	14	16	18	20	22	24
	0	2	4		6	1	8	10	12	14	16	18	20	22	24
Wed	0	2	4		6		8	10	12	14	16	18	20	22	24
Thu	-		1 7				0	10	16		10	10	20	44	
Fri	0	2	4		6	1	8	10	12	14	16	18	20	22	24
	0	2	4		6		8	10	12	14	16	18	20	22	24
Sat															
Holiday	0	2	4		6		8	10	12	14	16	18	20	22	24
Triggered Ir	iterval		20s												
												ОК		Cance	

Alarm Output: Trigger alarm output when alarm is triggered.

Audble Warning Email Unkage Alarm Durpot Others Trigger Alarm Output II			Action			
	Audible Warning	Email Linkage	Alarm Output	Others		
OK Canool Age	Trigger Alarm Ou	itput 🗖 1	2 3 4			
				ОК	Cancel	Apply

Others: Trigger other channels record when alarm is triggered.

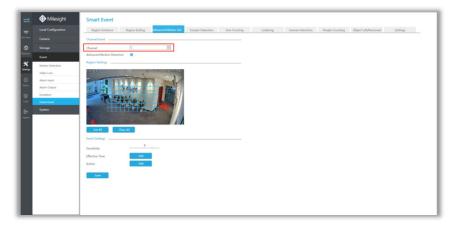


# **Advanced Motion Detection**

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

Step 1. Select channel.





Step 2. Enable Advanced Motion Detection.



### Step 3. Set advanced motion detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking set All and clear All.

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																					ŝ.

#### Step 4. Set Sensitivity.

The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.



# Step 5. Set Effective Time of advance motion detection by clicking

NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Sun	24
0 2 4 6 8 10 12 14 16 18 20 22 Mon	24
	24
Tue 0 2 4 6 8 10 12 14 16 18 20 22	24
Wed	
0 2 4 6 8 10 12 14 16 18 20 22 Thu	24
0 2 4 6 8 10 12 14 16 18 20 22 Fri	24
0 2 4 6 8 10 12 14 16 18 20 22	24
Sat 0 2 4 6 8 10 12 14 16 18 20 22	24
Holiday	

Step 6. Set Action for advanced motion detection alarm by clicking

Audible Warning: NVR will trigger an audible beep when advanced motion is detected. Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Alarmo Output         Others           Select Al         Cherr All         Alarmo Output         Others           Select Al         Cherr All         Cherr All <th>udible Warning</th> <th></th> <th>Emai</th> <th>l Linkag</th> <th></th> <th>AL</th> <th>un Out</th> <th></th> <th></th> <th>Othe</th> <th></th> <th></th> <th></th> <th></th>	udible Warning		Emai	l Linkag		AL	un Out			Othe				
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Sun 0 2 2 4 6 8 10 12 14 16 13 20 22 24 Man 0 2 4 6 8 10 12 14 16 13 20 22 24 Tue 0 2 4 6 8 10 12 14 16 13 20 22 24 0 2 4 6 8 10 12 14 16 13 20 22 24 10 2 4 6 8 10 12 14 16 13 20 22 24 Tuu 0 2 4 6 8 10 12 14 16 13 20 22 24 Fi 0 2 4 6 8 10 12 14 16 13 20 22 24 Fi 0 2 4 6 8 10 12 14 16 13 20 22 24	Select /	AII	Clea	r All										
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Mon 0 2 2 4 6 0 1 2 4 6 0 1 2 4 6 0 1 0 1 2 4 6 0 0	Sun													
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0         2         4         6         9         10         12         14         16         13         20         22         24           Thu         0         2         4         6         9         10         12         14         16         13         20         22         24           Thu         0         2         4         6         8         10         12         14         16         13         20         22         24           Fri         0         2         4         6         8         10         12         14         16         13         20         22         24           Fri         0         2         4         6         8         10         12         14         16         13         20         22         24           Sat         0         2         4         6         8         10         12         14         16         13         20         22         24		0	2	. 4	6	8	10	12	14	16	18	20	22	24
Wed         0         2         4         6         8         10         12         14         16         18         20         22         24           Thu         0         2         4         6         8         10         12         14         16         18         20         22         24           Fri         0         2         4         6         8         10         12         14         16         18         20         22         24           Fri         0         2         4         6         8         10         12         14         16         18         20         22         24           Sat         0         2         4         6         8         10         12         14         16         18         20         22         24           Sat         0         2         4         6         8         10         12         14         16         18         20         22         24	Tue						10	10		10	10	00		
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0         2         4         6         9         10         12         14         16         18         20         22         24           0         2         4         6         8         10         12         14         16         19         20         22         24           Sat         0         2         4         6         8         10         12         14         16         19         20         22         24	Thus	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24 Sat 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24	THU	0	2	4	6	8	10	12	14	16	18	20	22	24
Sat 0 2 4 6 8 10 12 14 16 18 20 22 24	Fri													
	Sat	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
	Holiday													
	Triggered I	nterval		20s										

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

Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click ^{to} to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

dible Warning		Ema	il Linkag		41	arm Out	eud.		Othe				
uiule Warning	9	LIIIa	n unkay		As	ann Out	pur	-	Othe	15	_		
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Tue													
Wed	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
Thu													
Fri	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
Sat													
Holiday	0	2	4	6	8	10	12	14	16	18	20	22	24
Holiday													
Triggered I	nterval		20s										
										ОК		Cance	ч

Alarm Output: Trigger alarm output when alarm is triggered.

		Action			
Audible Warning	Email Linkage	Alarm Output	Others		
Trigger Alarm Ou	tput 🗖 1	□2 □3 □4			
			ок	Cancel	Appl

Others: Trigger other channels record when alarm is triggered.

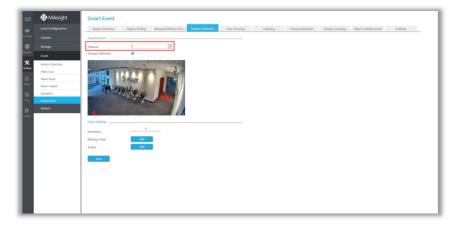


#### **Tamper Detection**

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

### Step 1. Select channel.





Step 2. Enable Tamper Detection.

Tamper Detection	
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# Step 3. Set Sensitivity.

The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.

Sensitivity	8

# Step 4. Set Effective Time of tamper detection by clicking

NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Select AI         ConvAI           Sun         0         2         4         6         0         10         12         14         16         10         20         22         54           Mon         0         2         4         6         0         10         12         14         16         10         20         22         54           Mon         0         2         4         6         0         10         12         14         16         10         20         22         24           Mon         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Med         2         4         6         0         10         12         14         16         10         20         22         24           Thu         0         2         4         6         0         10         12         14         16         10 <th>0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24           Satt         0         2         4<!--</th--><th>0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24           Satt         0         2         4<!--</th--><th>0         2         4         6         9         10         12         14         16         10         20         22         2           0         2         4         6         9         10         12         14         16         10         20         22         2           0         2         4         6         9         10         12         14         16         10         20         22         2           Tue         0         2         4         6         9         10         12         14         16         10         20         22         2           Wed         0         2         4         6         9         10         12         14         16         10         20         22         2           Thu         0         2         4         6         9         10         12         14         16         10         20         22         2           Thu         0         2         4         6         9         10         12         14         16         10         20         22         22  </th></th></th>	0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24           Satt         0         2         4 </th <th>0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24           Satt         0         2         4<!--</th--><th>0         2         4         6         9         10         12         14         16         10         20         22         2           0         2         4         6         9         10         12         14         16         10         20         22         2           0         2         4         6         9         10         12         14         16         10         20         22         2           Tue         0         2         4         6         9         10         12         14         16         10         20         22         2           Wed         0         2         4         6         9         10         12         14         16         10         20         22         2           Thu         0         2         4         6         9         10         12         14         16         10         20         22         2           Thu         0         2         4         6         9         10         12         14         16         10         20         22         22  </th></th>	0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24           Satt         0         2         4 </th <th>0         2         4         6         9         10         12         14         16         10         20         22         2           0         2         4         6         9         10         12         14         16         10         20         22         2           0         2         4         6         9         10         12         14         16         10         20         22         2           Tue         0         2         4         6         9         10         12         14         16         10         20         22         2           Wed         0         2         4         6         9         10         12         14         16         10         20         22         2           Thu         0         2         4         6         9         10         12         14         16         10         20         22         2           Thu         0         2         4         6         9         10         12         14         16         10         20         22         22  </th>	0         2         4         6         9         10         12         14         16         10         20         22         2           0         2         4         6         9         10         12         14         16         10         20         22         2           0         2         4         6         9         10         12         14         16         10         20         22         2           Tue         0         2         4         6         9         10         12         14         16         10         20         22         2           Wed         0         2         4         6         9         10         12         14         16         10         20         22         2           Thu         0         2         4         6         9         10         12         14         16         10         20         22         2           Thu         0         2         4         6         9         10         12         14         16         10         20         22         22
Sun         2         4         6         8         10         12         14         16         10         20         22         2           Mon         0         2         4         6         8         10         12         14         16         19         20         22         2         2         34           Tue         0         2         4         6         9         10         12         14         16         19         20         22         2         34           0         2         4         6         9         10         12         14         16         19         20         22         2         4           0         2         4         6         9         10         12         14         16         19         20         22         2         4           0         2         4         6         9         10         12         14         16         10         20         22         2         4           Fri         0         2         4         6         8         10         12         14         16         10         20	Sun         0         2         4         6         0         12         14         16         10         20         22         2           Mon         0         2         4         6         0         10         12         14         16         10         20         22         2         14           Tue         0         2         4         6         0         10         12         14         16         10         20         22         2         14           0         2         4         6         0         10         12         14         16         10         20         22         2         14           0         2         4         6         0         10         12         14         16         10         20         22         2         14           0         2         4         6         0         10         12         14         16         10         20         22         2         14           17         0         2         4         6         0         10         12         14         16         10         20         22	Sun Mon V 2 4 6 8 10 12 14 16 10 20 22 24 Tue Ved Ved 0 2 4 6 8 10 12 14 16 10 20 22 24 Ved 0 2 4 6 8 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 10 20 22 24 Ved 0 2 4 6 9 10 12 14 16 10 10 10 10 12 14 10 10 10 10 10 10 10 10 10 10 10 10 10	Sun 0 2 4 6 0 10 12 14 15 18 20 22 2 Mon 0 2 4 6 0 10 12 14 16 10 20 22 2 True 0 2 4 6 0 10 12 14 16 10 20 22 2 Wed 0 2 4 6 0 10 12 14 16 10 20 22 2 True 0 2 4 6 0 10 12 14 15 10 20 22 2 True 0 2 4 6 0 10 12 14 15 10 20 22 2
0         2         4         6         0         10         12         14         16         10         20         22         2           Tue         0         2         4         6         0         10         12         14         16         10         20         22         25           Wed         0         2         4         6         0         10         12         14         16         10         20         22         25           Wed         0         2         4         6         0         10         12         14         16         10         20         22         25           Trua         0         2         4         6         0         10         12         14         16         10         20         22         25           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24	0         2         4         6         0         10         12         14         16         10         20         22         2           Tue         0         2         4         6         0         10         12         14         16         10         20         22         2         2           Wed         0         2         4         6         0         10         12         14         16         10         20         22         2         2           Wed         0         2         4         6         0         10         12         14         16         10         20         22         2         3           Thu         0         2         4         6         0         10         12         14         16         10         20         22         2         3           Fri         0         2         4         6         0         10         12         14         16         10         20         22         2           Sat         0         2         4         6         0         10         12         14         16         10	Mon         0         2         4         6         0         10         12         14         16         10         20         22         24           Tue         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Mod         2         4         6         0         10         12         14         16         10         20         22         24           Tru         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24 <td>0         2         4         6         0         10         12         14         15         18         20         22         2           Tue         0         2         4         6         0         10         12         14         15         16         20         22         2         2           Tue         0         2         4         6         0         10         12         14         16         10         20         22         2         2           Wed         0         2         4         6         0         10         12         14         16         10         20         22         2         2           Thu         0         2         4         6         0         10         12         14         16         10         20         22         2         2           Thu         0         2         4         6         0         10         12         14         16         10         20         22         2</td>	0         2         4         6         0         10         12         14         15         18         20         22         2           Tue         0         2         4         6         0         10         12         14         15         16         20         22         2         2           Tue         0         2         4         6         0         10         12         14         16         10         20         22         2         2           Wed         0         2         4         6         0         10         12         14         16         10         20         22         2         2           Thu         0         2         4         6         0         10         12         14         16         10         20         22         2         2           Thu         0         2         4         6         0         10         12         14         16         10         20         22         2
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Wed         0         2         4         6         8         10         12         14         15         19         20         22         24           Thu         0         2         4         6         0         10         12         14         16         10         20         22         24           Fd         0         2         4         6         0         10         12         14         16         10         20         22         24           Sat         0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24	Wed         0         2         4         6         8         10         12         14         15         19         20         22         24           Thu         0         2         4         6         0         10         12         14         16         10         20         22         24           Pride         2         4         6         0         10         12         14         16         10         20         22         24           Sat         0         2         4         6         0         10         12         14         15         10         20         22         24           0         2         4         6         0         10         12         14         15         10         20         22         24           Sat         0         2         4         6         0         10         12         14         15         10         20         22         24	Wed         0         2         4         6         8         10         12         14         16         10         20         22         24           Thu         0         2         4         6         8         10         12         14         16         19         20         22         24           Fri         0         2         4         6         9         10         12         14         16         18         20         22         24           Sat         0         2         4         6         9         10         12         14         16         18         20         22         24           Holiday         2         4         6         9         10         12         14         16         18         20         22         24	Wed 0 2 4 6 8 10 12 14 16 18 20 22 20 Thu 0 2 4 6 8 10 12 14 16 18 20 22 20
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0         2         4         6         8         10         12         14         16         10         20         22         24           Fri         0         2         4         6         8         10         12         14         16         10         20         22         24           Satt         0         2         4         6         0         10         12         14         16         10         20         22         24	0 2 4 6 8 10 12 14 16 10 20 22 24 Fri Sat 0 2 4 6 8 10 12 14 16 10 20 22 24 Sat	Fri	0 2 4 6 8 10 12 14 16 18 20 22 24
Sat 0 2 4 6 8 10 12 14 16 18 20 22 24	Sat 0 2 4 6 8 10 12 14 16 18 20 22 24	Sat 0 2 4 6 8 10 12 14 16 10 20 22 54 Holiday	
		Holiday	
		OK Cancel	

Step 5. Set Action for tamper detection alarm by clicking



Audible Warning: NVR will trigger an audible beep when tamper is detected.

Drag a line on the time table for time setting, it will be more convenient by clicking

or <u>Clear All</u> to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Church /III         Church /III           0         2         4         6         8         10         12         14         10         10         20         22         24           Mon         0         2         4         6         8         10         12         14         10         10         20         22         24           Mon         0         2         4         6         8         10         12         14         10         10         20         22         24           0         2         4         6         8         10         12         14         10         10         20         22         24           0         2         4         6         8         10         12         14         10         10         20         22         24           0         2         4         6         8         10         12         14         10         10         20         22         24           True         0         2         4         6         8         10         12         14         10         10         20         22         24<		9	Emai	l Linkage		Ala	irm Out	put		Othe	rs			
Sin 0 2 4 6 8 10 12 14 16 19 22 24 Mon 0 2 4 6 8 10 12 14 16 19 20 22 24 Tue 0 2 4 6 8 10 12 14 16 19 20 22 24 Wed 0 2 4 6 9 10 12 14 16 19 20 22 24 Thu 0 2 4 6 9 10 12 14 16 19 20 22 24 Fri 0 2 4 6 9 10 12 14 16 19 20 22 24 Fri 0 2 4 6 9 10 12 14 16 19 20 22 24	Select	All	Clea	r All										
non         0         2         4         6         9         10         12         14         16         19         20         22         24           Tue         0         2         4         6         8         10         12         14         16         19         20         22         24           Wed         0         2         4         6         8         10         12         14         16         19         20         22         24           Med         0         2         4         6         8         10         12         14         16         19         20         22         24           Med         0         2         4         6         8         10         12         14         16         19         20         22         24           Thu         0         2         4         6         8         10         12         14         16         19         20         22         24           Fri         0         7         4         6         8         10         12         14         16         19         20         22         <	Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
0         2         4         6         9         10         12         14         16         10         00         22         24           Wed         0         2         4         6         8         10         12         14         16         13         20         22         24           Wed         0         2         4         6         8         10         12         14         16         13         20         22         24           0         2         4         6         8         10         12         14         16         13         20         22         24           0         2         4         6         8         10         12         14         16         13         20         22         24           171         0         2         4         6         8         10         12         14         16         13         20         22         24           6         2         4         6         8         10         12         14         16         13         20         22         24           5         2         4 <td></td> <td>o</td> <td>2</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> <td>12</td> <td>14</td> <td>16</td> <td>18</td> <td>20</td> <td>22</td> <td>24</td>		o	2	4	6	8	10	12	14	16	18	20	22	24
Wed         0         2         4         6         9         10         12         14         16         13         20         22         24           Thu         0         2         4         6         8         10         12         14         16         13         20         22         24           Thu         0         2         4         6         8         10         12         14         16         10         20         22         24           0         2         4         6         8         10         12         14         16         10         20         22         24           6         2         4         6         8         10         12         14         16         10         20         22         24           6         2         4         6         8         10         12         14         16         10         20         22         24           5         4         6         8         10         12         14         16         10         20         22         24		0	2	4	6	8	10	12	14	16	18	20	22	24
0         2         4         6         9         10         12         14         16         19         20         22         24           0         2         4         6         9         10         12         14         16         19         20         22         24           Fri         0         2         4         6         9         10         12         14         16         19         20         22         24           Sat         0         2         4         6         9         10         12         14         16         19         20         22         24           Sat         0         2         4         6         10         12         14         16         19         20         22         24		o	2	4	6	8	10	12	14	16	18	20	22	24
0         2         4         6         9         10         12         14         16         10         20         22         24           fri         0         2         4         6         8         10         12         14         16         10         20         22         24           Satt           0         2         4         6         8         10         12         14         16         10         20         22         24		0	2	4	6	8	10	12	14	16	18	20	22	24
Sat 0 2 4 6 8 10 12 14 16 18 20 22 24		o	2	4	6	8	10	12	14	16	18	20	22	24
	Sat	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
		-				_	_							

Trigger Interval: The effective interval between two actions when event triggered.

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

Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

udible Warning		Em	ail Link	aĝe		_	Alar	rm Out	put	-	Othe	rs			
Select A	All	Cle	ar All												
Sun	0	2	4	a ay	6	7	8	10	12	14	16	18	20	22	24
Mon	0	2	4		6		8	10	12	14	16	18	20	22	24
Tue	0	2	4		6	. 1	8	10	12	14	16	18	20	22	24
Wed	0	2	4	8.9	6	ii i	8	10	12	14	16	18	20	22	24
Thu	0	2	4		6		8	10	12	14	16	18	20	22	24
Fri	0	2	4		6		8	10	12	14	16	18	20	22	24
Sat	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
Triggered li			20s												

Alarm Output: Trigger alarm output when alarm is triggered.

	Action			
Audible Warning Email Linkage	Alarm Output	Others		
Trigger Alarm Output	1 🗆 2 🗆 3 🗆 4			
		ОК	Cancel	Apply

Others: Trigger other channels record when alarm is triggered.





### Line Crossing

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

#### Step 1. Select channel.

≓	🐼 Milesight	Smart Event
	Local Configuration	Region Extrance Region Exiting Advanced Motion Det., Tamper Detection Line Cossiling Labering Harman Detection People Counting Object Leftyllemoved Settings
	Camera	Charred Switt
	Storage	Channel 5
	Event	Line Crossing
٢.	Motion Detection	Region Semiog
	Video Loss	Line 1 m Direction A+>8 m
ŝ.	Alarm Input	Direction A-re 2011 HD altertrosticultural da
	Alarm Output Exception	
ER Lup Er	Seat fand	Image: Control of Control o

Step 2. Enable Line Crossing.

Line Crossing	
---------------	--

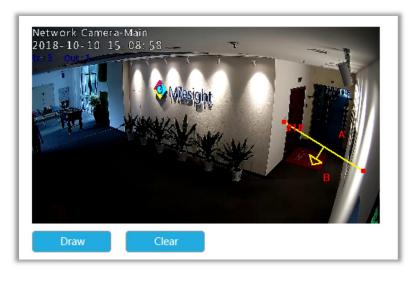
#### Step 3. Choose detection line number and define its direction.

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

Line	1	$\sim$
Direction	A->B	$\sim$

Step 4. Draw detection lines.





Step 5. Set Effective Time of line crossing by clicking

NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Select /		Clear	Ali															
Sun	0	2	4		6	8		10		12	14		16	18	20	22	1	4
	0	2	4		6	8		10		12	14		16	18	20	22		24
Mon	0	2	4		6			10		12	14		16	18	20	22		24
Tue		-	1		0			10	1	12	14		10	10	20			
Wed	0	2	4	. 1	6	8		10		12	14		16	18	 20	22	. 4	4
	0	2	4	10	6	8		10		12	14		16	18	20	22	. 4	54
Thu	0	2	4		6	8		10		12	14		16	18	20	22	1	34
Fri						-										1		1
Sat	0	2	4	100	6	8		10		12	14	4	16	18	20	22		24
Holiday	0	2	4	10	6	8	4	10		12	14	4	16	18	20	22	1	94
rionady																		

Step 6. Set Action for line crossing alarm by clicking

Audible Warning: NVR will trigger an audible beep when line crossing is detected. Drag a line on the time table for time setting, it will be more convenient by clicking or clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Audible Warning		Emai	Linkage	5	Ala	arm Out	put	-	Othe	rs			
Select .	All	Clear	All										
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	o	2	4	6	B	10	12	14	16	18	20	22	24
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	0	2	4	6	8	10	12	14	16 18	18	20 20	22	24
Sat		2	4	6	8	10	12	14	16	18	20	22	24
Holiday													
Triggered I	nterval		20s										
										OK		Cance	a 👘

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

Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings.

Select All

What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Select A	AII (	Cl	ear /	MI													
Sun	0	2	17	4		6	7	8		10	12	14	16	18	20	22	24
Mon	0	2		4		6		8	-	10	12	14	16	18	20	22	24
Tue	0	2		4	į,	6		8		10	12	14	16	18	20	22	24
Wed	0	2	ί. M	4		6	ii.	8	4	10	12	14	16	18	20	22	24
Thu	0	2		4		6		8		10	12	14	16	18	20	22	24
Fri	0	2		4		6		8		10	12	14	16	18	20	22	24
Sat	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
Tionday																	

Alarm Output: Trigger alarm output when alarm is triggered.



Others: Trigger other channels record when alarm is triggered.





# Loitering

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

### Step 1. Select channel.

=	Milesight	Smart Event
-		Region Editario: Region Editario Edition Det., Tamper Detection Line Crussing Lablaning Human Detection People Counting Object Left/Renoved Settings
		Ournal funct
		Gaunal I III
	Event	Lobering 🖬
*	Mution Detection	Region Settings
Sectory 1	Video Loss	
**	Alarm Input	
12	Alarm Output Exception	
1.00	Smart Event	
ingent (		
		Set Al Cew Al
		Poret Setting
		Min.Lobreing Time (J-1800a) [2]
		Okject Siar(1-50) 10
		Effective Time fdd
		Action Edd
		See.
		1

### Step 2. Enable Loitering.

Loitering	
-----------	--

# Step 3. Set Loitering detected region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking and clear All.



### Step 4. Set Min. Loitering Time and Object Size.

After setting minimum loitering time from 3s to 1800s, any objects loitering in the selected area over the minimum loitering time will trigger the alarm. Also Milesight loitering allows to set "Object Size". Only the object bigger than the set size will trigger the alarm.

Min.Loitering Time (3-1800s)	7
Object Size(1-100)	30

# Step 5. Set Effective Time of loitering by clicking

NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

0 2 4 6 0 10 12 14 16 10 20 22 Sun 0 2 4 6 0 10 12 14 16 10 20 22	24
Mon	24
Tue 10 2 4 6 8 10 12 14 16 18 20 22 Tue	24
0 2 4 6 8 10 12 14 16 18 20 22 Wed	24
vecu 0 2 4 6 8 10 12 14 16 18 20 22 Thu	24
Fri	24
0 2 4 6 8 10 12 14 16 18 20 22 Sat	24
0 2 4 6 8 10 12 14 16 18 20 22 Holiday	24

### Step 6. Set Action for loitering alarm by clicking

Audible Warning: NVR will trigger an audible beep when loitering is detected.

Drag a line on the time table for time setting, it will be more convenient by clicking

or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Select	AII .	Clea	All										
301000													
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	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
Tue	0	2	. 4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Thu													
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24
Sat	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
													-

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



Ninesigni rechnology co.,Erd.

Drag a line on the time table for time setting, it will be more convenient by clicking

or <u>Clear All</u> to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

**Trigger Interval:** The effective interval between two actions when event triggered.

	_													
Select A	ui -	Cle	ar All											
Sun	0	2	4	- 24	6	8	10	12	14	16	18	20	22	24
	0	2	. 4		6	8	10	12	14	16	18	20	22	24
Mon	0	2	4		6	8	10	12	14	16	18	20	22	24
Tue		2	4		6	8	10	12	14	16	18	20	22	24
Wed			1											
Thu	0	2	4		6	8	10	12	14	16	18	20	22	24
Fri	0	2	4		6	8	10	12	14	16	18	20	22	24
Sat	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

Alarm Output: Trigger alarm output when alarm is triggered.

			Action			
_	Audible Warning	Email Linkage	Alarm Output	Others		
	Trigger Alarm Ou	tput 🗖 1	□ 2 □ 3 □ 4			
				ОК	Cancel	Apply

**Others:** Trigger other channels record when alarm is triggered.



#### **Human Detection**

Human detection is used for figuring out whether an object is a human or not.

#### Step 1. Select channel.

📀 Milesight

₽	Milesight	Smart Event
-		Region Entrance Region Entrance Advanced Motion DeL., Temper Detection Line Counsing Laboring Handa Detection People Counting Object LeHyRenoved Settings
Line Vers		Osered funt
9		Gauval 5
Patent	Event	Harsan Dataction
×	Motion Detection	And white the second seco
	Video Loss	
柴 Sata	Alarm Input Alarm Output	
2	Exception	The state of the s
14	Smart Event	
E upor	Çyıken	Foreform Bender Tran Actor Ben

### Step 2. Enable Human Detection.



# Step 3. Set Effective Time of human detection by clicking

NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

0         2         4         6         0         10         12         14         15         10         20         22         24           Mon         0         2         4         6         0         10         12         14         16         10         20         22         24           Mon         0         2         4         6         0         10         12         14         16         10         20         22         24           Tue         0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           10         2         4         6         0         10         12         14         16         10         20         22         24           11         2         4<	Sun         0         2         4         6         0         10         12         14         16         10         20         24           Mon         0         2         4         6         0         10         12         14         16         10         22         24           Tue         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         2         2         4         6         0         10         12         14         16         10         20         22         24           Thu         0         2         4         6         0         10         12         14         16         10         20         22         24           Thu         0         2         4         6         0         10         12         14         16         10         20         22         24           10         2         4         6         0         10         12         14         16         10         20         22         24           10 <t< th=""><th>Select All</th><th></th><th>Clea</th><th>r All</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Select All		Clea	r All										
Mon         0         2         4         6         0         10         42         14         16         10         20         22         24           Tue         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Mud         0         2         4         6         0         10         12         14         16         10         20         22         24           Thu         0         2         4         6         0         10         12         14         16         10         20         22         24           Fi         0         2         4         6         0         10         12         14         16         10         20         22 <t< td=""><td>0         2         4         6         0         10         12         14         10         10         20         22         21           Low         0         2         4         6         0         10         12         14         16         10         20         22         21           Low         0         2         4         6         0         10         12         14         16         10         20         22         21           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Thu         0         2         4         6         9         10         12         14         16         10         20         22         24           M         0         2         4         6         9         10         12         14         16         10         20         22         24</td><td>Sun</td><td>0</td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td><td>14</td><td>16</td><td>18</td><td>20</td><td>22</td><td>24</td></t<>	0         2         4         6         0         10         12         14         10         10         20         22         21           Low         0         2         4         6         0         10         12         14         16         10         20         22         21           Low         0         2         4         6         0         10         12         14         16         10         20         22         21           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Thu         0         2         4         6         9         10         12         14         16         10         20         22         24           M         0         2         4         6         9         10         12         14         16         10         20         22         24	Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
0         2         4         6         8         10         12         14         16         10         20         22         24           Wed         0         2         4         6         8         10         12         14         16         19         20         22         24           Wed         0         2         4         6         8         10         12         14         16         19         20         22         24           Thru         0         2         4         6         8         10         12         14         16         18         20         22         24           Thru         0         2         4         6         8         10         12         14         16         18         20         22         24           Fri         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         24         <	0         2         4         6         9         10         12         14         16         10         20         22         24           Tue         0         2         4         6         9         10         12         14         16         10         20         22         24           Wed         0         2         4         6         9         10         12         14         16         10         20         22         24           Thu         0         2         4         6         9         10         12         14         16         10         20         22         24           fr1         0         2         4         6         9         12         14         16         10         20         22         24           fr1         0         2         4         6         9         10         12         14         16         10         20         22         24           Satt         0         2         4         6         9         10         12         14         16         10         20         22         24		0	2	4	6	8	10	12	14	16	18	20	22	24
0         2         4         6         0         10         12         14         16         10         20         22         24           0         2         4         6         0         10         12         14         16         10         20         22         24           Thu         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         10         20         22         24	0         2         4         6         9         10         12         14         16         10         20         22         24           Thu         0         2         4         6         9         10         12         14         16         10         20         22         24           Thu         0         2         4         6         9         10         12         14         16         10         20         22         24           Frid         0         2         4         6         9         10         12         14         16         10         20         22         24           Frid         0         2         4         6         9         10         12         14         16         10         20         22         24           Sati         0         2         4         6         9         10         12         14         16         10         20         22         24           Sati         0         2         4         6         9         10         12         14         16         10         20         22         24 </td <td></td> <td>0</td> <td>2</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> <td>12</td> <td>14</td> <td>16</td> <td>18</td> <td>20</td> <td>22</td> <td>24</td>		0	2	4	6	8	10	12	14	16	18	20	22	24
0 2 4 6 0 10 12 14 16 10 20 22 24 Thu 0 2 4 6 8 10 12 14 16 10 20 22 24 Fri 0 2 4 6 8 10 12 14 16 18 20 22 24	0         2         4         6         9         10         12         14         16         10         20         22         24           frl         0         2         4         6         9         10         12         14         16         10         20         22         24           frl         0         2         4         6         9         10         12         14         16         10         20         22         24           Satt         0         2         4         6         9         10         12         14         16         10         20         22         24           G         2         4         6         9         10         12         14         16         10         20         22         24           Satt         0         2         4         6         0         12         14         16         10         20         22         24		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 Fri 0 2 4 6 8 10 12 14 16 18 20 22 24	0 2 4 6 0 10 12 14 16 10 20 22 24 Fri 0 2 4 6 0 10 12 14 16 10 20 22 24 Sat 0 2 4 6 0 10 12 14 16 10 20 22 24		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	0         2         4         6         9         10         12         14         15         19         20         22         24           Sat         0         2         4         6         9         10         12         14         16         19         20         22         24		0	2	4	6	8	10	12	14	16	18	20	22	24
562			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			0	2	4	6	8	10	12	14	16	18	20	22	24
												ОК		Cance	4

# Step 4. Set Action for human detection alarm by clicking

Audible Warning: NVR will trigger an audible beep when human is detected.

Drag a line on the time table for time setting, it will be more convenient by clicking

or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

	,	Emai	l Linkage		Ala	arm Out	put		Other	rs			
	-			-				-			_		
Select	All	Clea	r All										
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sun	o	2	4	6	B	10	12	14	16	18	20	22	24
Mon	0	2	. 4	6	8	10	12	14	16	18	20	22	24
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24
Sat Holiday	0	2	4	6	8	10	12	14	16	18	20	22	24
Holiday													
Triggered I	nterval		20s										
										ОК		Cance	1

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

Drag a line on the time table for time setting, it will be more convenient by clicking or Clear All to set or clear all time settings.

Select All

What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Select A	AII (	Cl	ear /	MI													
Sun	0	2	17	4		6	7	8		10	12	14	16	18	20	22	24
Mon	0	2		4		6		8	-	10	12	14	16	18	20	22	24
Tue	0	2		4	į,	6		8		10	12	14	16	18	20	22	24
Wed	0	2	ί. M	4		6	ii.	8	4	10	12	14	16	18	20	22	24
Thu	0	2		4		6		8		10	12	14	16	18	20	22	24
Fri	0	2		4		6		8		10	12	14	16	18	20	22	24
Sat	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
Tionday																	

Alarm Output: Trigger alarm output when alarm is triggered.



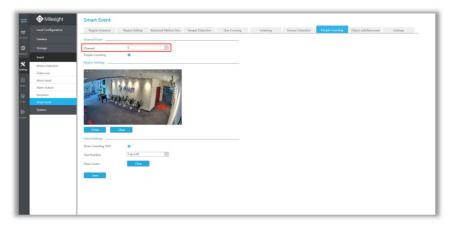
Others: Trigger other channels record when alarm is triggered.



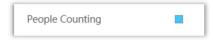


#### **People Counting**

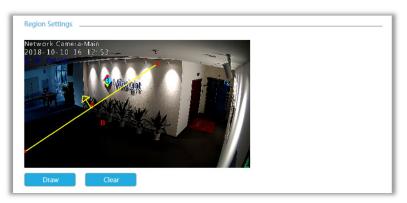
People counting is able to count that how many people enter or exit during the setting period. **Step 1. Select channel.** 



Step 2. Enable People Counting.



Step 3. Draw detection line.



# Step 4. Set counting OSD.

It shows the number of counted people, including in and out number. Besides, you can clear count by clicking Clear.

Show Counting OSD		
Text Position	Top-Left	$\vee$

### Note:

- ③ To enable people counting, human detection should be enabled first.
- ④ Crossing along the direction of the arrow will record as "In", opposite is "Out".

### **Object Left/Removed(Optional)**

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

1.Object Left/Removed is optional, if you need this function, please contact Milesight sales first.

2. You need to upgrade the NVR to V7x.9.0.4-r2 or above to support this function.

Step 1. Select channel and enable Object Left or Object Removed(Or you can enable both features at the same time).

#	Milesight	Smart Event
		Region Entrance Region Enting Advanced Motion Det. Tamper Detection Line Crossing Lobering Human Detection People Counting Cliffed Left, Research Settings
Une View		
3	Storage	Charrel Sent
	Event	Charnel S
×	Motion Detection	Object Left
	Video Loss	Object Removed
*	Alarm input	Region Settings
Date:	Alarm Output	ectival tameet
12	Deception	
Logove	Event from	An and a second seco

#### Step 2. Set detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking set All and clear All.

Region Settings		
2018-10-10		
Set All	Clear All	

# Step 3. Set Min. Time.

After setting minimum time from 3s to 1800s, any objects are left in the selected area or removed from the selected area over the minimum time will trigger the alarm.



NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Select All         Char All           Sinn         0         2         4         0         0         10         12         14         15         10         20         22         24           Mon         0         2         4         6         0         10         12         14         15         10         20         22         24           Mon         0         2         4         6         0         10         12         14         15         10         20         22         24           Mon         0         2         4         6         0         10         12         14         15         10         20         22         24           Wed         0         2         4         6         0         10         12         14         15         10         20         22         24           Tuu         0         2         4         6         0         10         12         14         15         10         20         22         24           Mode         0         10         10         12         14         15         10         20 <t< th=""><th>Sun 0 2 4 6 0 10 12 14 16 10 20 22 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 14 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 14 Mon 0 2 2 4 6 0 0 10 12 14 16 10 10 20 22 24 14 Mon 0 2 2 4 6 0 0 10 12 14 16 10 10 20 22 24 14 Mon 0 2 2 4 6 0 0 10 12 14 10 10 10 20 22 24 14 Mon 0 2 2 4 6 0 0 10 12 14 16 10 10 20 22 24 14 Mon 0 2 2 4 6 0 0 10 12 14 16 10 10 20 22 24 14 Mon 0 2 2 24 14 Mon 0 2 4 14 Mon 0 2 24 14 Mon 0 2 4 14</th><th>_</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Sun 0 2 4 6 0 10 12 14 16 10 20 22 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 14 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 14 Mon 0 2 2 4 6 0 0 10 12 14 16 10 10 20 22 24 14 Mon 0 2 2 4 6 0 0 10 12 14 16 10 10 20 22 24 14 Mon 0 2 2 4 6 0 0 10 12 14 10 10 10 20 22 24 14 Mon 0 2 2 4 6 0 0 10 12 14 16 10 10 20 22 24 14 Mon 0 2 2 4 6 0 0 10 12 14 16 10 10 20 22 24 14 Mon 0 2 2 24 14 Mon 0 2 4 14 Mon 0 2 24 14 Mon 0 2 4 14	_													
Sun         2         4         6         9         10         12         14         16         19         20         22         24           Mon         2         2         4         6         9         10         12         14         16         19         20         22         24           Mon         2         2         4         6         9         10         12         14         16         19         20         22         24           Mon         2         2         4         6         9         10         12         14         16         19         20         22         24           Mon         0         2         4         6         9         10         12         14         16         18         20         22         24           Mon         0         2         4         6         9         10         12         14         16         18         20         22         24           Fri         0         2         4         6         9         10         12         14         16         10         10         10         20	Sun 0 2 4 6 0 10 12 14 16 10 20 22 24 Mon 0 2 4 6 0 10 12 14 16 10 20 22 24 Tue 0 2 4 6 0 10 12 14 16 10 20 22 24 0 2 4 6 0 10 12 14 16 10 20 22 24 Tue 0 2 4 6 0 10 12 14 16 10 20 22 24 Thu 0 2 4 6 0 10 12 14 16 10 20 22 24 Fi 0 2 4 6 0 10 12 14 16 10 20 22 24 Sat 0 2 4 6 0 10 12 14 16 10 20 22 24	Select All	1	Clea	r All										
0         2         4         6         9         10         12         14         16         10         20         22         24           Mon         0         2         4         6         0         10         12         14         16         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10	0         2         4         6         0         10         12         14         16         10         20         22         24           Tue         0         2         4         6         0         10         12         14         16         10         20         22         24           Tue         0         2         4         6         0         10         12         14         16         10         20         22         24           Wed         0         2         4         6         0         10         12         14         16         10         20         22         24           Tue         0         2         4         6         0         10         12         14         16         10         20         22         24           Tue         0         2         4         6         0         10         12         14         16         10         20         22         24           Tue         0         2         4         6         0         10         12         14         15         10         20         22         24		5	2	4	6	8	10	12	14	16	18	20	22	24
Tue         0         2         4         6         9         10         12         14         10         10         20         22         53           Wed         0         2         4         6         9         10         12         14         16         10         20         22         24           0         2         4         6         9         10         12         14         15         10         20         22         24           Fri         0         2         4         6         9         10         12         14         15         10         20         22         24           Fri         0         2         4         6         9         10         12         14         15         10         20         22         24           Sat         0         2         4         6         9         10         12         14         15         10         20         22         24	Tue         0         2         4         6         9         10         12         14         16         10         20         22         24           0         2         4         6         9         10         12         14         16         10         20         22         24           0         2         4         6         9         10         12         14         16         10         20         22         24           0         2         4         6         9         10         12         14         16         10         20         22         24           Fri         0         2         4         6         9         10         12         14         16         10         20         22         24           Sat         0         2         4         6         9         10         12         14         16         10         20         22         24		2	2	4	6	8	10	12	14	16	18	20	22	24
Wed         0         2         4         6         9         10         12         14         16         19         20         22         24           Thu         0         2         4         6         9         10         12         14         15         10         20         22         24           Fri         0         2         4         6         9         10         12         14         16         19         20         22         24           Sat         0         2         4         6         9         10         12         14         16         19         20         22         24           Sat         0         2         4         6         9         10         12         14         16         19         20         22         24	Wed         0         2         4         6         8         10         12         14         16         10         20         22         24           Thu         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         9         10         12         14         16         10         20         22         24           Sat         0         2         4         6         9         10         12         14         16         10         20         22         24		, ,	2	4	6	8	10	12	14	16	18	20	22	24
Thu 0 2 4 6 8 10 12 14 16 10 20 22 24 Fri 0 2 4 6 8 10 12 14 16 18 20 22 24 Sat 0 2 4 6 8 10 12 14 15 18 20 22 24	Thu 0 2 4 6 8 10 12 14 16 18 20 22 24 Fri 0 2 4 6 8 10 12 14 16 18 20 22 24 Sat 0 2 4 6 8 10 12 14 15 18 20 22 24			2	4	6	8	10	12	14	16	18	20	22	24
0         2         4         6         9         10         12         14         15         10         20         22         24           0         2         4         6         8         10         12         14         18         18         20         22         24           Sat         0         2         4         6         8         10         12         14         18         18         20         22         24	0 2 4 6 0 10 12 14 16 10 20 22 24 Fri 0 2 4 6 0 10 12 14 16 10 20 22 24 Sat 0 2 4 6 0 10 12 14 16 10 20 22 24			2	4	6	8	10	12	14	16	18	20	22	24
Sat 0 2 4 6 8 10 12 14 16 18 20 22 24	Sat 0 2 4 6 8 10 12 14 16 18 20 22 24			2	4	6	8	10	12	14	16	18	20	22	24
				2	4	6	8	10	12	14	16	18	20	22	24
				2	4	6	8	10	12	14	16	18	20	22	24
OK Cancel												ОК		Cano	el



Audible Warning: NVR will trigger an audible beep when object left/removed is detected.

Drag a line on the time table for time setting, it will be more convenient by clicking

or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 💷 to copy time setting to other day.

Trigger Interval: The effective interval between two actions when event triggered.

Select	All	Clea	r All										
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	0	2	4	6	8	10	12	14	16	18	20	22	24
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	o	2	4	6	8	10	12	14	16	18	20	22	24
Sat	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
Holiday	-												

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

Drag a line on the time table for time setting, it will be more convenient by clicking

or Clear All to set or clear all time settings.

What's more, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

O Milesight

Trigger Interval: The effective interval between two actions when event triggered.



Alarm Output: Trigger alarm output when alarm is triggered.

			Action			
_	Audible Warning	Email Linkage	Alarm Output	Others		
	Trigger Alarm Ot	utput 📕 1	2 3 4			
				ОК	Cancel	Apply

**Others:** Trigger other channels record when alarm is triggered.

			Action	
Select All           1         2         3         4         5         6         7         8         9         10         11         12         13         14         1           17         18         19         20         21         22         23         24         25         26         27         28         29         30         3	Audible Warning	Email Linkage	Alarm Output	Others
Select All           1         2         3         4         5         6         7         8         9         10         11         12         13         14         1           17         18         19         20         21         22         23         24         25         26         27         28         29         30         3	Trigger Channels R	ecord		
1       2       3       4       5       6       7       8       9       10       11       12       13       14       1         17       18       19       20       21       22       23       24       25       26       27       28       29       30       3				
17 18 19 20 21 22 23 24 25 26 27 28 29 30 3				
Note: This page s configuration will not be copied into other channels.				
	roter this page a c	onigeree of whit hot	or copies into other chain	
				ок
ox c				

#### Settings

Milesight VCA provides the primary setting for the whole VCA functions.

Draw Min. is to set the whether an object is big enough to trigger other settings. The frame you draw on the screen means that only if the object size is bigger than the frame, the settings for other VCA functions will take effect.

Draw Max. means opposite, the frame you draw on the screen stands for that only if the object size is smaller than the frame, the settings for other VCA functions will take effect.

#	Milesight	Smart Event
-		Region Entrance Region Enting Advanced Motion Det., Temper Detection Line Dossing Labering Haman Detection People Counting Object LeftyRemoved Settings
Line Tologo		Index damage     Regine Datage     Rescar Datage     Iso device     Device <thdevice< th="">     Device     Device     <thdevice<< th=""></thdevice<<></thdevice<>

Parameters	Descriptions					
Process FPS	Five different periods are available(5, 10, 15, 20, 25, fps) for process fps					
Scenario Mode	Select Indoor or Outdoor mode to meet your needs					
Camera Installation	Select camera installation view, including Angle View, Horizontal View and Overhead View					
Analysis Type	Select Standard or Advanced analysis type					
License	Generated by camera's information					
License Status	Show present license status, including Valid, Invalid, Expired, Unactivated					

# 4.6.5 System

# 4.6.5.1 General Settings

To setup the general parameters of NVR, including modify the Device Name, Boot Wizard, set system time manually and auto logout, etc.

Date & TimeDeviceServer Time2018-10-22 02:39:17Time Zone(UTC-08:00) United States - PaDaylight Saving TimeAuto© NTPPool.ntp.orgNTP Serverpool.ntp.orgO Set Date and Time ManuallySet TimeImage: Comparison of the set	Server Time 2018-10-22 02:39:17 Time Zone (UTC-08:00) United States - Pa Daylight Saving Time Auto NTP NTP Server pool.ntp.org O Set Date and Time Manually	General Settin	gs
Time Zone (UTC-08:00) United States - Pa Daylight Saving Time Auto NTP NTP Server pool.ntp.org  Set Date and Time Manually	Time Zone (UTC-08:00) United States - Pa Daylight Saving Time Auto NTP NTP NTP Server pool.ntp.org O Set Date and Time Manually Set Time	Date & Time	Device
Daylight Saving Time Auto  NTP NTP Server pool.ntp.org  Set Date and Time Manually	Daylight Saving Time       Auto <ul> <li>NTP</li> </ul> NTP Server       pool.ntp.org         O Set Date and Time Manually         Set Time	Server Time	2018-10-22 02:39:17
NTP     NTP Server	NTP     NTP Server	Time Zone	(UTC-08:00) United Stat
NTP Server pool.ntp.org	NTP Server pool.ntp.org O Set Date and Time Manually Set Time	Daylight Saving Time	Auto
○ Set Date and Time Manually	O Set Date and Time Manually Set Time	NTP	
	Set Time		
Set Time			anually
	Save	Set Time	

# 4.6.5.2 Network

# 4.6.5.2.1 Basic

The system supports two IP address format: IPv4 and IPv6

# IPv4

Enable IPv4 DHCP to auto search IP. When enable DHCP function, you can not modify IP/ Subnet mask/ Gateway.

Disable IPv4 DHCP to modify IP/ Subnet mask/ Gateway manually.

# IPv6

Manual/ Router Advertisement/ DHCPv6 are available.

# **DNS Server**

Preferred DNS Server: DNS server IP address.

Alternate DNS Server: DNS server alternate address.

Network							
Basic	UPnP	DDNS	Email	P2P	SNMP	HTTPS	More
Working Mode NIC Settings	Multi-address	×					
Select NIC	LAN1	Enable					
IPv4 DHCP	Disable	$\sim$					
IPv4 Address	192 . 168 . 7	. 79					
IPv4 Subnet Mask	255 . 255 . 240	. 0					
IPv4 Gateway	192 . 168 . 7	. 2					
IPv6 Mode	Manual	$\sim$					
IPv6 Address							
IPv6 Prefix Length							
IPv6 Gateway							
MAC	1C:C3:16:54:30:FE						
MTU(Byte)	1500						
DNS Server							
Preferred DNS Server	192 . 168 . 7	. 2					
Alternate DNS Server							
Save							

### Note:

- 1. Check the DHCP check-box when there is a DHCP server running in the networks.
- 2. The valid range of MTU is 500~9676.
- 3. Do not input an IP address conflicting with another device.

# 4.6.5.2.2 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**.

Basic	UPnP	DDNS	Email	P2P	SNMP	HTTPS	More
IPnP	Disable	$\sim$					
orwarding Type	Auto	×.					
Port Type	E	dit	External Port	Internal Port	Status		
HTTP		1	21202	80	Invalid		
		1					

# 4.6.5.2.3 DDNS

Using DDNS to solve the dynamic IP address problem.

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 http://ddns.milesight.com:MAC to access device remotely.

# Note:

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



Network								
Basic	UPnP	DDNS	Email	P2P	SNMP	HTTPS	More	
Enable DDNS	Enable	$\sim$						
Provider	ddns.milesight.com	$\sim$						
External HTTP Port	80							
External RTSP Port	554							
DDNS URL http://ddns.milesight.com/0A1C86								
Save								

# 4.6.5.2.4 Email

Email will send receivers a screenshot when the alarm is triggered.

Network							
Basic	UPnP	DDNS	Email	P2P	SNMP	HTTPS	More
User Name	cc@milesight.cn						
Password	******						
SMTP Server	smtp.milesight.com						
SMTP Port	465						
Encryption	OTLS © SSL						
Host Name	http://	🗌 Enable					
Sender Email Address	cc@milesight.cn						
Receiver Email Address	1 cc@milesight.com						
Receiver Email Address	2						
Receiver Email Address	3						
Save	Test						

**User name:** The E-mail address you choose to send emails. Please input **full email address** into it. **Password:** The password of the E-mail.

**SMTP Server:** The SMTP Server of your E-mail.

SMTP Port: The port of SMTP Server, it's usually 25.

Encryption: Security Protocol of email sending, including TLS and SSL.

Host Name: It will be attached in the email.

Sender Email Address: It must be same with [User name].

Receiver Email Address: E-mail Address for the receivers.

Select Test to check if the Mail function is workable.

#### Note:

If your NVR has a port forwarding IP for Host Name, please input the complete address that contains the port.

# 4.6.5.2.5 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.



Network									
Basic	UPnP	DDNS	Email	P2P	SNMP	HTTPS	More		
Enable access to NVR vi	Enable access to NVR via mobile phone without router settings. Before using this feature, please make sure that this NVR is available for the internet.								
P2P Service	Enable	~							
P2P Status	Activated								
Research of the Control of the Contr	e by App to get a remote v	ńew.							

There are several status shows on P2P Status after clicking Saving, please check corresponded possibilities below:

P2P Status	Description
Network unavailable	Failed to connect with internet.Please check again for the
	network settings, like Gateway or DNS, make sure the NVR is
	able to the Internet.
Authentication request failed	Failed to authenticate P2P encryption.Please contact with
	Milesight.
No idle UUID	Please contact Milesight if this status shows up
Activated	P2P is available
Login failed	Failed to login P2P server. Please contact with Milesight.
Initialization failed	Failed to initialize P2P. Please contact with Milesight.
Unactivated	P2P is disabled
Unknown error	Other error. Please contact with Milesight.

# Note:

- 1. Please make sure that NVR is available for internet before enabling.
- 2. If your NVR firmware version is not 7x.7.0.9-r2 or above, please contact Milesight to registered P2P first.

# 4.6.5.2.6 SNMP

SNMP is an abbreviation of Simple Network Management Protocol, which is convenient for NVR to be monitored and managed in the whole network environment. The SNMP is widely used in many network devices, software and systems.

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

Network							
Basic	UPnP	DDNS	Email	P2P	SNMP	HTTPS	More
SNMP V1 / V2c							
SNMP V1	Disable	>					
SNMP V2c	Disable	>					
Read Community	public						
Write Community	private						
SNMP V3							
SNMP V3	Disable	~					
Read Security Name							
Level of Security	no auth,no priv	$\sim$					
Write Security Name							
Level of Security	no auth,no prív	$\sim$					
SNMP Port							
SNMP Port	161						
Save							

SNMP v1/2c/3: The version of SNMP, please select the version of your SNMP software.

SNMP v1: No security protection

SNMP v2c: Require password for access

SNMP v3: Support encryption on the premise that the HTTPS protocol must be enabled

**Read Community:** Input the name of Read Community

Write Community: Input the name of Write Community

Read Security Name: Input the name of Read Security Community

**Level of Security:** There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv) **Write Security Name:** Input the name of Write Security Community

**Level of Security:** There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv) **SNMP Port:** The default of the SNMP port is 161

# 4.6.5.2.7 HTTPS

Set in the interface to make sure getting access to NVR successfully via HTTPS, which is able to guarantee communication data security. The reliable and stable technology can secure the user information security and device safety.

Network							
Basic	UPnP	DDNS	Email	P2P	SNMP	HTTPS	More
HTTPS Installation Type Create a Private Certificate Installed Certificate Attributes	Enable Create a Privat Create	e Certificate <table-cell></table-cell>	Clear				
Save							

There are three certificate installation types:

# Create a Private Certificate

Click "Create" to create the following dialog box. And then enter Country, Common Name, Period of Validity and other information. And then click "OK" to generate a private certificate.

Cr	eate a Private Certificate	
Country		*
Common Name		*
Period of Validity	(1~999)	days*
Password		
Province		
Region		
Organization		
Company		
Email		
	ОК	Cancel
		Caneer

#### **Direct Installation**

Click "Browse" to select a signed certificate locally and click "Install" to install it.

HTTPS	Enable	
Installation Type	Direct Installation	
Install Signed Certificate		Browse
	Install	
Installed Certificate	C=CN, H/IP=cn	Clear
Attributes	Awarded to: C=CN, H/IP=cn Issuer: C=CN, H/IP=cn Period of Validity: Jun 6 16:21:28 2018 ~ Jan 14 16:21:28 2019	

# Create a Certificate Request

Firstly, click "Create" button. And then enter Country, Common Name and other information to create the certificate request;

Download the certificate request and submit it to the trusted certificate authority for signature; After receiving the signed valid certificate, import the certificate to the device.

HTTPS	Enable
Installation Type	Create a Certificate Request
Create a Certificate Request	Create Request Content
Download the Certificate Request	Download
Delete the Certificate Request	Delete
Installed Certificate	C=CN, H/IP=cn Clear
Attributes	Awarded to: C=CN, H/IP=cn Issuer: C=CN, H/IP=cn Period of Validity: Jun 6 16:21:28 2018 ~ Jan 14 16:21:28 2019

After creating and installing the certificate successfully, you can check the certificate information and clear the information on the following interface. And you can access the NVR by inputting https://ip:port via the web browser.

nstalled Certificate	C=CN, H/IP=cn	Clear
Attributes	Awarded to: C=CN, H/IP=cn Issuer: C=CN, H/IP=cn Period of Validity: Jun 6 16:21:28 2018 ~ Jan 14 16:21:28 2019	

### Note:

The default HTTPS port is 443, you can modify it on the "More" interface.

# 4.6.5.2.8 More

Network							
Basic	UPnP	DDNS	Email	P2P	SNMP	HTTPS	More
Channel Access	Disable	$\sim$					
nable SSH	Enable	$\lor$					
SSH Port	22						
ITTP Port	80						
HTTPS Port	443						
RTSP Port	554						
Push Message Enable	Enable	2					
Push Type	Edit						
Save							
Jave							

#### **Channel Access**

With this option enabled, you can access PoE-connected cameras website directly in Camera Management.

### Enable SSH

Enable or disable SSH access. Secure Shell (SSH) has many functions; it can replace Telnet, and also provides a secure channel for FTP, POP, even for PPP.

#### 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.

Note:

- 1. The default HTTP port for IE browser is 80.
- 2. HTTP port is used for remote network access for 4k/H.265 NVR Series.

### **HTTPS** Port

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

# Note:

- 3. The default HTTPS port for IE browser is 443.
- 4. HTTPS port is used for remote network access for 4k/H.265 NVR Series.

### **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.

The default (15) port is 554. Trease mounty (15) port according to a

# Note:

- 1. RTSP port is used for remote network live view.
- 2. RTSP port valid range is 554 or 1024~65535.

### Push Message Enable

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

#### Push Video Stream

Select which video stream will be pushed to APP M-Sight Pro. Auto, Primary Stream and Secondary Stream are available.

#### Note:

Only NVR model ends with letter T support.

#### Push 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 and Human Detection.

# 4.6.5.3 Holiday

It can configure the record or image capture schedule for holidays of the current year.

	Holdary Name           1         Holdary           2         Holdary           3         Holdary           4         Holdary	Status Disable Disable Disable	Start Date 1-1 1-1	End Date 1-1 1-1	Edit	
	2 Holiday 3 Holiday	Disable	1-1			
	1 Holiday					
			1-1		2	
		Disable	14		1	
	5 Holiday	Disable	14		1	
ings .		Disable	14	14	1	
	7 Holday	Disable	14		1	
	8 Holdey	Disable	1-1	1-1	1	
	9 Holiday	Disable	1-1	1-1	1	
	0 Holiday	Disable	1-1	1-1	1	
	1 Holiday	Disable	1-1	1-1	1	
1.1	2 Holiday	Disable	1-1	1-1	1	
	3 Holiday	Disable	14	14	1	
1	4 Holiday	Disable	1-1	1-1	1	
	5 Holiday	Disable	14	14	1	
	6 Holiday	Disable	1-1	1-1	1	
				14		

Click 🦨 to open holiday configuration page to modify holiday name, check the 'Enable Holiday'



check-box, and then select [Type] to setup Start/End date. There are By0 Month, By Week, and By Date in [Type] mode. Then click [OK] to save the configuration and return to holiday page.

Holiday Name	Holiday	
Enable Holiday		
Туре	By Month	$\sim$
Start Date	Jan	1
End Date	Jan	1

# 4.6.5.4 User

=	Milesight	User						
		User Security Question						
		No.	User Name	User Level				
<b>D</b>		1	admin	Admin				
		Add Edit Linkt Ed	R Paussord Delate					
:	System							
	General Settlings							
-	Network							
	Holiday							
2	Maintenance							
÷								
1								
		l						

# Note:

- 1. If the NVR firmware version is below xx.7.0.6, the default user name is "admin" and the default password is "123456".
- 2. If the NVR firmware version is between xx.7.0.6 and xx.9.0.3, the default user name is "admin" and the default password is "ms1234".
- 3. If the NVR firmware version is xx.9.0.3 or above, please set the admin password before login.

#### Add a new user

Click Add

to enter the user add interface, input information for the new user, select

user level and set user privileges, then click

to save settings.

User   Admin Password   User Level Operator   User Name Image: Ima					
User Level       Operator         User Name       Image: Configuration         Password       Image: Configuration         Racic Permission       Cemera Configuration         Issic Permission       Cemera Configuration         PTZ Control       Image: Control         PTZ Control       Image: PTZ Control         PTZ Control       Image: PTZ Control         PTZ Control       Image: PTZ Control         Pty Control       Image: Pty Control         Status Alangement       Image: Pty Control         Status & Log       Image: Pty Control         Status & Log       Image: Pty Control         Status & Log       Image: Pty Control         Image: Pty Control       Image: Pty Control         System Upgrade       Image: Pty Control         Swel/Load Configuration       Image: Pty Control      <	User				
User Name	Admin Password				
Password         Confirm         Basic Permission       Camera Configuration         Local Privilege       Remote Privilege         Channel Management       Channel Management         PTZ Control       PTZ Control         Record Settings       Record Settings         Disk Management       Disk Management         Playback       Playback         Video/Picture Export       Video Export         Status & Log       Status & Log         Status & Log       General Settings         Network Settings       Record Settings         Network Settings       System Upgrade         System Upgrade       System Upgrade         Shuddown/Reboot       Remote Record         Snapshot       Remote Snapshot         Live View Settings       Auto Maintenance         Live View Settings       Auto Reboot	User Level	Operator 🗸			
Confirm         Basic Permission       Camera Configuration         Local Privilege       Remote Privilege         Channel Management       Channel Management         PTZ Control       PTZ Control         Record Settings       Record Settings         Disk Management       Disk Management         Playback       Playback         Video/Picture Export       Video Export         Event Settings       Status & Log         General Settings       General Settings         Network Settings       Network Settings         System Upgrade       System Upgrade         Save/Load Configuration       Save/Load Configuration         Shutdown/Reboot       Remote Record         Snapshot       Remote Record         Live View Settings       Auto Maintenance         Live View Settings       Auto Maintenance	User Name				
Basic Permission       Camera Configuration         Local Privilege       Remote Privilege         Channel Management       Channel Management         P TZ Control       PTZ Control         Record Settings       Record Settings         Disk Management       Disk Management         Playback       Playback         Video/Picture Export       Video Export         Event Settings       Event Settings         Status & Log       Status & Log         General Settings       General Settings         Network Settings       Network Settings         System Upgrade       System Upgrade         Swe/Load Configuration       Save/Load Configuration         Shutdowr/Reboot       Remote Record         Emergency Record       Remote Record         Snapshot       Auto Maintenance         Live View Settings       Auto Maintenance         Live View Settings       Auto Reboot	Password				
Local Privilege       Remote Privilege         Channel Management       Channel Management         PTZ Control       PTZ Control         Record Settings       Record Settings         Disk Management       Disk Management         Playback       Playback         Video/Picture Export       Video Export         Event Settings       Event Settings         Status & Log       Status & Log         General Settings       General Settings         Network Settings       Network Settings         Holiday       Holiday         System Upgrade       System Upgrade         Shutdown/Reboot       Remote Record         Emergency Record       Remote Record         Snapshot       Auto Maintenance         Live View Settings       Auto Maintenance         Remote Record       Remote Record	Confirm				
Channel ManagementChannel ManagementPTZ ControlPTZ ControlRecord SettingsRecord SettingsDisk ManagementDisk ManagementPlaybackPlaybackVideo/Picture ExportVideo ExportEvent SettingsEvent SettingsStatus & LogStatus & LogGeneral SettingsGeneral SettingsNetwork SettingsNetwork SettingsHolidayHolidaySystem UpgradeSystem UpgradeShutdown/RebootRemote RecordEmergency RecordRemote SnapshotAuto MaintenanceAuto MaintenanceLive View SettingsAuto MaintenanceLive View SettingsLive View Settings	Basic Permission	Camera Configuration			
PTZ ControlPTZ ControlRecord SettingsRecord SettingsDisk ManagementDisk ManagementPlaybackPlaybackVideo/Picture ExportVideo ExportEvent SettingsEvent SettingsStatus & LogStatus & LogGeneral SettingsGeneral SettingsNetwork SettingsNetwork SettingsHolidayHolidaySystem UpgradeSystem UpgradeStatus & LogRemote RecordShutdown/RebootRemote SnapshotAuto MaintenanceAuto MaintenanceLive View SettingsAuto Reboot	Local Privilege		Remote Privilege		
Record Settings       Record Settings         Disk Management       Disk Management         Playback       Playback         Video/Picture Export       Video Export         Event Settings       Event Settings         Status & Log       Status & Log         General Settings       General Settings         Network Settings       Network Settings         Network Settings       Network Settings         System Upgrade       System Upgrade         Save/Load Configuration       Save/Load Configuration         Shutdown/Reboot       Remote Record         Emergency Record       Remote Snapshot         Live View Settings       Auto Maintenance         Live View Settings       Auto Reboot         Remote Record       Remote Snapshot	🗌 Channel Managemer	nt	Channel Management		
Disk ManagementDisk ManagementPlaybackPlaybackVideo/Picture ExportVideo ExportEvent SettingsEvent SettingsStatus & LogStatus & LogGeneral SettingsGeneral SettingsNetwork SettingsNetwork SettingsHolidayHolidaySystem UpgradeSystem UpgradeStatus & LodRemote RecordEmergency RecordRemote SnapshotAuto MaintenanceAuto MaintenanceLive View SettingsAuto MaintenanceRetrieveStatus Snapshot	PTZ Control		PTZ Control		
Playback       Playback         Video/Picture Export       Video Export         Event Settings       Event Settings         Status & Log       Status & Log         General Settings       General Settings         Network Settings       Network Settings         Holiday       Holiday         System Upgrade       System Upgrade         Save/Load Configuration       Save/Load Configuration         Shutdown/Reboot       Remote Record         Emergency Record       Remote Snapshot         Auto Maintenance       Auto Maintenance         Live View Settings       Auto Reboot         Retrieve       Status Snapshot	Record Settings		Record Settings		
Video/Picture Export       Video Export         Event Settings       Event Settings         Status & Log       Status & Log         General Settings       General Settings         Network Settings       Network Settings         Holiday       Holiday         System Upgrade       System Upgrade         Shutdown/Reboot       Reboot         Emergency Record       Remote Record         Snapshot       Auto Maintenance         Live View Settings       Auto Maintenance         Auto Reboot       Live View Settings	🗌 Disk Management		Disk Management		
Event Settings       Event Settings         Status & Log       Status & Log         General Settings       General Settings         Network Settings       Network Settings         Holiday       Holiday         System Upgrade       System Upgrade         Save/Load Configuration       Save/Load Configuration         Shutdown/Reboot       Remote Record         Emergency Record       Remote Snapshot         Auto Maintenance       Auto Maintenance         Live View Settings       Live View Settings	Playback		Playback		
Status & Log       Status & Log         General Settings       General Settings         Network Settings       Network Settings         Holiday       Holiday         System Upgrade       System Upgrade         Save/Load Configuration       Save/Load Configuration         Shutdown/Reboot       Reboot         Emergency Record       Remote Record         Snapshot       Auto Maintenance         Live View Settings       Auto Reboot         Retrieve       Status & Log	Video/Picture Export		Video Export		
General Settings       General Settings         Network Settings       Network Settings         Holiday       Holiday         System Upgrade       System Upgrade         Save/Load Configuration       Save/Load Configuration         Shutdown/Reboot       Reboot         Emergency Record       Remote Record         Snapshot       Remote Snapshot         Live View Settings       Auto Maintenance         Auto Reboot       Auto Reboot	Event Settings		Event Settings		
Network Settings       Network Settings         Holiday       Holiday         System Upgrade       System Upgrade         Save/Load Configuration       Save/Load Configuration         Shutdown/Reboot       Reboot         Emergency Record       Remote Record         Snapshot       Remote Snapshot         Live View Settings       Auto Maintenance         Auto Reboot       Retrieve	Status & Log		Status & Log		
Holiday       Holiday         System Upgrade       System Upgrade         Save/Load Configuration       Save/Load Configuration         Shutdown/Reboot       Reboot         Emergency Record       Remote Record         Snapshot       Remote Snapshot         Auto Maintenance       Auto Maintenance         Live View Settings       Holiday         Retrieve       Holiday	General Settings		General Settings		
System Upgrade       System Upgrade         Save/Load Configuration       Save/Load Configuration         Shutdown/Reboot       Reboot         Emergency Record       Remote Record         Snapshot       Remote Snapshot         Auto Maintenance       Auto Maintenance         Live View Settings       Itereve	Network Settings		□ Network Settings		
Save/Load Configuration       Save/Load Configuration         Shutdown/Reboot       Reboot         Emergency Record       Remote Record         Snapshot       Remote Snapshot         Auto Maintenance       Auto Maintenance         Live View Settings       Iteration         Retrieve       Iteration	🗆 Holiday		□ Holiday		
Shutdown/Reboot     Reboot       Emergency Record     Remote Record       Snapshot     Remote Snapshot       Auto Maintenance     Auto Maintenance       Live View Settings	🗌 System Upgrade		□ System Upgrade		
Emergency Record Remote Record Snapshot Auto Maintenance Live View Settings Auto Reboot Retrieve	Save/Load Configura	tion	Save/Load Configuration		
Snapshot  Auto Maintenance  Live View Settings  Auto Reboot  Retrieve	Shutdown/Reboot		Reboot		
Auto Maintenance     Auto Maintenance     Live View Settings     Auto Reboot     Retrieve	Emergency Record		Remote Record		
Live View Settings Auto Reboot Retrieve	Snapshot		Remote Snapshot		
Auto Reboot	🗌 Auto Maintenance		🗆 Auto Maintenance		
□ Retrieve	Live View Settings				
	🗌 Auto Reboot				
OK Back	Retrieve				
	ОК	Back			

# Note:

User name can only contain letters and number. There are two user levels with different authority: Operator and Viewer;

# Edit user limits

Click a user, when the background color changes into blue, click Edit Limit to edit user

privileges.

- ① Local Privilege means the privilege to the monitor connected with NVR
- 2 Remote Privilege means the privilege to web settings.

User	
Admin Password	
Basic Permission Camera Configuration	
Local Privilege	Remote Privilege
Channel Management	Channel Management
PTZ Control	PTZ Control
Record Settings	Record Settings
Disk Management	🗌 Disk Management
Playback	Playback
Video/Picture Export	Video Export
Event Settings	Event Settings
Status & Log	Status & Log
General Settings	General Settings
□ Network Settings	Network Settings
🗆 Holiday	🗌 Holiday
System Upgrade	□ System Upgrade
Save/Load Configuration	Save/Load Configuration
Shutdown/Reboot	Reboot
Emergency Record	Remote Record
Snapshot	Remote Snapshot
🗆 Auto Maintenance	🗆 Auto Maintenance
Live View Settings	
🗌 Auto Reboot	
Retrieve	
OK Back	

# Edit user password

Click Edit Password to modify password.

Sync new password to current connected PoE channels is available for PoE NVR Series.

	User	
	Admin Password	
	User Level	Admin
	User Name	admin
	New Password	
	Confirm	
	Sync new password	to current connected PoE channels
	ОК В	ack
<mark>Delete user</mark>		
Select a user and click	Delete to delete	e a user.



# **Modify Security Question**

Input Admin Password, select security question and answer. Click to save.

User	Security Question	
Password Authenticati	on	
Admin Password		
Security Question Setti	ing (Questions are already set!)	
Security Question1:	What's your lucky number?	$\sim$
Security Answer1:		
Security Question2:	What's your favorite color?	$\sim$
Security Answer2:		
Security Question3:	What's your favorite book?	$\sim$
Security Answer3:		

### Note:

- 1. This option is available for the NVR firmware version xx.9.0.3 or above only.
- 2. Security question is used for resetting admin password if you forget current one.

# 4.6.5.5 Maintenance

Allesight Maintenance	- 1
ne Local Configuration Rebot	
Un Nov Cannea Reboot the device Kategoria	
Storage Set Default	
Event Rest Event Rest	
Notes System Exception Line Section Rever	
Convert Cettings Import Configuration File	
Suna Configuration File Prove	
The Control Co	- 1
Depart Configuration File	- 1
E-	- 1
System Upgrade	
Firmure Restricting to factory of factory of factory and them and them information	- 1
Upprate	
Note: The upgrading process will take 5-10 minutes, please don't disconnect power of the device during the process. The device will related automatically after upgrading.	- 1
	- 1
Reboot	
Click Report to reheat the NIV/P	
Click Reboot to reboot the NVR.	
Reboot	
Reboot the device Reboot	
7	
Set Default	
Click Reset to reset the NVR to factory defaults.	
,	
Keeping the IP parameters and keeping the User information are available.	

Set Default	1
Reset: Keep the IP parameters	
Keep the User Information Reset	
Import Configuration File	
Click Browse to select one file and click Upload to import the NVR configura	ition.
Import Configuration File	
Configuration File Browse	
Upload	
Export Configuration File	
Click Backup to backup current NVR settings.	
Export Configuration File	
Backup	
System Upgrade	
Click Browse to select the firmware file, and you can check 🔲 to reset configur	ation to
factory defaults.	
Click Upgrade to upgrade.	
System Upgrade	
Firmware Browse	
Reset settings to factory default (Except IP Address)      Upgrade	
Note: The upgrading process will take 5-10 minutes, please don't disconnect power of the device during the process. The device will reboot automatically after upgrading.	

# Note:

It will take 5 to 10 minutes to upgrade, please do not disconnect the device power during the process. The device will reboot automatically after upgrading.

# 4.7 Status

You can have a quick view of the information of the device, network, camera, disk and event. This part is only for your rapid reference. If you want to make any configuration, please go to corresponding interfaces accordingly.

# **4.7.1 Device Information**

📀 Milesight

Device information includes Model, MAC Address, Hardware Version, Software Version and Uptime.

Device Inform	nation
Model	MS-N8064-UH
MAC Address	1C:C3:16:0A:1C:86
Hardware Version	V1.0
Software Version	71.9.0.2-a6
Uptime	02:49:25 up 4:06

# 4.7.2 Network Status

Network Status includes three main parts: Receive Bandwidth, LAN1 and LAN2.

Free	251.77Mbps	Used	4.23Mbps
LAN1			
Connection	Link is up - 100Mbps Dup	lex	
Pv4 DHCP	Disable	IPv6 Mode	Manual
Pv4 Address	192.168.7.79	IPv6 Address	
Pv4 Netmask	255.255.240.0	IPv6 Prefix Length	
Pv4 Gateway	192.168.7.1	IPv6 Gateway	
Preferred DNS Server	192.168.7.1	Alternate DNS Server	
MAC	1C:C3:16:16:2D:6E	MTU	1500
Receive Rate	1.21Mbps	Send Rate	0.00Kbps
LAN2			
Connection	Link is down - 0Mbps Hal	f Duplex	
Pv4 DHCP	Disable	IPv6 Mode	Manual
Pv4 Address	192.168.10.200	IPv6 Address	
Pv4 Netmask	255.255.255.0	IPv6 Prefix Length	
Pv4 Gateway	192.168.10.1	IPv6 Gateway	
Preferred DNS Server		Alternate DNS Server	
MAC	1C:C3:16:16:2D:6F	MTU	1500

# 4.7.3 Camera Status

Camera status includes Channel, Name, IPv4 Address, Record, Frame Rate, Bit rate, Resolution and Status.

Channel	Name	IPv4 Address	Record	Frame Rate	Bit Rate	Resolution	Status
1	CAM1	192.168.14.102	On	23fps	5117Kbps	1920x1080	Connected
2	CAM2	192.168.14.103	On	14fps	3444Kbps	1920x1080	Connected
3	CAM3	192.168.14.105	On	11fps	10563Kbps	4000x3000	Connected
4							
5				-	-		
6			~				-
7							
8							-
9							
10							
11			~				-
12							
13							
14							
15							
16							
17							
18							
19			-				
20							
21							
22							
23							
24							-

# 4.7.4 Disk Status

Disk status includes Port, Vendor, status, Total(GB), Free(GB), Type, In Use and Recycle Mode. You also can check the Total Capacity (GB) and Free Capacity.

1	ST1000VX000-1ES162	Normal	931GB	924GB	LOCAL	R/W
4	Hitachi HEJ421080G9SA00	Uninitialized	74GB	0GB	LOCAL	R/W
17	Network Disk1	Normal	74GB	72GB	NAS	R/W
atal Capacity(GB)	1079					
ee Capacity(GB)	996					

# 4.7.5 Event Status

# Camera Event

Camera Event shows camera event, including Video Loss, Motion and I/O. 🚨 turns into

when alarm is triggered.

Milesight	Event Status						
Status	Camera Event	Alarm	Smart Event	People Counting			
Device Information							
Network Status	Channel	Name	IFv4 Address	Video Loss	Motion	40	
Camera Status	,	CAMI	192,168,14,102				
Disk Status	2	CAM2	192.168.14.103			a	
Event Status	3	CAM3	192.168.14.105		۵.		
Packet Capture Tool	4	CAM4					
ranset capture 1000	5	CAMS					
	6	CAMS					
	7	CAM7					
		CAMB					
	9	CAM9					
	10	CAM10					
	-11	CAM11					
	12	CAM12				n	
	13	CAM13					
	14	CAM14					
	15	CAM15					
	16	CAM16				n	
	17	CAM17					
	10	CAM18					
	19	CAM19					
	20	CAM20		8			
	21	CAM21					
	22	CAM22				n	
	23	CAM23			n.,		
	24	CAM24		0.	0		

# Alarm

Alarm shows the Alarm Input and Alarm Output status. ^a turns into ^a when alarm is triggered.

Camera Event	Alarm	Smart Event	People Cou	nting		
n Input List						
No.	Alarm Name		Alarm Ty	pe	Status	
1			NO		<u>n</u>	
2			NO		<u>n</u>	
3			NO		<u>n</u>	
4			NO		<u>n</u>	
5			NO		<u>n</u>	
n Output List						
No.	Alarm Name	Alarn	n Type	Dwell Time	Status	
1		1	10	5s	<u>n</u>	
2		1	10	5s	<u>n</u>	
3		1	10	5s	<u>n</u>	
		N			<u>n</u>	

# Smart Event

It shows the Smart Event status. 🚔 turns into 🚨 when alarm is triggered.

ilesight	Event	Status									
	Car	nera Event	Alarm	Securit De	ent People	Counting					
annation	Channel	Name	IPv4 Address	Region Entrance	Region Exiting	Advanced Motion Detection	Tamper Detection	Line Crossing	Loitering	Human Detection	Object Left/Removed
	1	CAM1	192.168.7.114	0	0	0	0				D. C.
fuis	2	CAM2	192,168,14,105								
		CAMB	192.168.14.104								
	4	CAME	192,168,14,103			0				0	
ure Tool	5	CAMS	192.168.14.102								
	6	CAMS									
	7	CAM7									<u>a</u>
	8	CAMB									
		CAMP				n.			n	n	
	10	CAM10									
	31	CAM11									
	12	CAM12									
	13	CAM13				a					
	54	CAM14									
	15	CAM15			n	n		n			
	16 :	CAM16				n					
	17	CAM17									
	18	CAM18		8	0			n			
	19	CAM19									
	20	CAM20									
	21	CAM21									
	22	CAM22									n
	23	CAM23									
	24	CAM24			8						



It shows every camera's current In/Out number of people counting.

		Event Status					
Statu	1	Camera Event	Alarm	Smart Event People Counting			
Device	e Information						
Netwo	ork Status	Channel	Name	IPv4 Address	In	Out	
Carne	ra Status	1	CAMI	192,168,14,102	635	369	
Did S	inter .	2	CAME	192.168.14.103	2	4	
Frend	Status	3	CAM3	192,168,14,105			
	000000	4	CAMM				
Packet	t Capture Tool	5	CAMS				
		6	CAM5				
		7	CAM7				
		8	CAMB				
		9	CAM9				
		10	CAM10				
		11	CAM11				
		12	CAM12				
		13	CAM13				
		14	CAM14				
		15	CAM15				
		16	CAM15				
		17	CAM17				
		16	CAM18				
		19	CAM19				
		20	CAM20				
		21	CAM21				
		22	CAM22				
		23	CAM23				
		24	CAM24				
		25	CAM25				

# 4.7.6 Packet Capture Tool

Input IP and Port, then click [Start] to start capture and click [End] to stop. Click [Download] to backup the captured packet locally.

Packet C	Capture Tool	
IP	192.168.8.150	
Port	80	
NIC	eth0	$\sim$
Start	End Download	

# 4.8 Logs

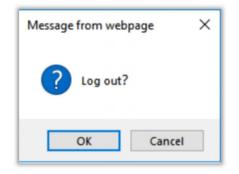
In Log interface, you can check, search and export logs. By selecting the Main Type , Sub Type, Start Time and End Time which can narrow down the scale of logs, you can search for logs that you need and then export them locally.

A										
Milesight		1	Event	2018-10-23 18:57:16	Stop Region Extrance Alarm	N/A	1	N/A	N/A	8
	_	2	Event	2018-10-23 18:57:09	Start Region Entrance Alarm	N/A	1	N/A	N/A	8
Log Search		2	Information	2018-10-23 18:56:57	S.M.A.R.T Information	N/A	N/A.	N/A	N/A	8
and the second second		.4.	Event	2018-10-23 18:56:54	Stop Line Crossing Alarm	N/A	1	N/A	N/A	8
Main Type		5	Event	2018-10-23 18:50:54	Stop Region Entrance Alarm	N/A	1	N/A	N/A	8
All	102	6	Event	2010-10-23 18:56:51	Start Line Crossing Alarm	NGA	1	N/A	N/A	8
		7.	Event	2018-10-23 18:56:48	Start Region Entrance Alarm	N/A	1	N/A	N/A	
Sub Type			Operation	2018-10-23 18:52:25	Remotechive View	N/A	3	admin	192.168.7.18	8
Al	341	9	Operation	2018-10-23 18:52:22	Remotechive View	N/A	3	admin	192.168.7.18	8
Start Time		10	Operation	2018-10-23 18:52:19	Remotellize View	N/A	3	admin	192.168.7.18	8
2018-10-23 00:00:00	15	11	Operation	2018-10-23 18:52:00	Remotective View	N/A	3	admin	192.168.7.18	8
		12	Operation	2018-10-23 1851-24	Remotective View	N/A	3	admin	192,168.7.18	8
End Time		13	Event	2018-10-23 18-49-40	Stop Region Entrance Alarm	N/A	1	N/A	N/A	
2018-10-23 23:59:59	13	14	Event	2010-10-23 18:49:33	Start Region Entrance Alarm	N/A	1	N/A	N/A	8
		15	Event	2018-10-23 1845:58	Stop Region Entrance Alarm	N/A	1	N/A	N/A	
Search		16	Event	2019-10-23 1845:57	Stop Line Crossing Alarm	N/A	1	N/A	N/A	8
	_	17	Information	2018-10-23 18:45:55	Start Record	N/A	1	N/A	N/A	
Export Logs		18	Event	2016-10-23 1845:54	Start Line Crossing Alarm	N/A	1	N/A	N/A	8
enhour code		19	Event	2018-10-23 1845:52	Start Region Entrance Alarm	NGA	1	N/A	N/A	
		20	Event	2018-10-23 184454	Stop Region Entrance Alarm	N/A	1	N/A	N/A	8
		21	Event	2018-10-23 18:44-47	Start Region Entrance Alarm	N/A	3	N/A	N/A	
		22	Event	2018-10-23 18:44-40	Stop Region Entrance Alarm	N/A	1	N/A	N/A	8
		23	Event	2010-10-23 10:44:33	Start Region Entrance Alarm	N/A	1	N/A	N/A	8
		24	Event	2019-10-23 18:42:45	Stop Region Entrance Alarm	NA	1	N/A	N/A	8
		25	Event	2010-10-23 1842-38	Start Region Entrance Alarm	N/A	1	N/A	N/A	8
		26	Event	2018-10-23 1843-17	People Counting Out	N/A	2	N/A	N/A	8
		27	Event	2010-10-23 1841-17	People Counting In	N/A	2	N/A	N/A	
		28	Event	2018-10-23 1641-17	People Counting Out	N/A	2	N/A	N/A	8
		29	Fuent	2018-10-23 1841-17	People Counting In	N/A	2	N/A	N/A	
		30	Event	2018-10-23 18:38:39	Stop Region Entrance Alarm	N/A	1	N/A	N/A	8
		21	Event	2010-10-23 18:58:34	Start Region Entrance Alarm	N/A	1	N/A	N/A	51
		32	Event	2018-10-23 18:36:08	Stop Region Entrance Alarm	N/A	1	N/A	N/A	
		33	Event	2018-10-23 18:36:02	Start Region Entrance Alarm	NA	1	N/A	N/A	
		34	Event	2018-10-23 16:36:00	Stop Region Entrance Alarm	NA	1	N/A	N/A	8
		15	Fuend	2018.10.23 18:35-54	Start Region Entrance Alarm	NA	1	N/A	NA	
		36	Event	2010-10-23 1033-55	Stop Region Entrance Alarm	NA	1	N/A	N/A	8
		37	Event	2018-10-23 18:33:50	Start Region Entrance Alarm	N/A		N/A	N/A	8
		38	Fuend	2018-10-23 1630.14	People Counting Out	N/A	1	N/A	NG	8
		39	Event	2018-10-23 18:30:14	People Counting In	N/A	1	N/A	N/A	
		40	Event	2018-10-23 18:30.14	People Counting Out	N/A	1	N/A	N/A	8
		41	Event	2018-10-23 18:30:14	People Counting In	N/A		N/A	N/A	
		42	Information	2018-10-23 18:29:55	Start Record	N/A	2	N/A	N/A	8
		43	Event	2018-10-23 18:28:08	People Counting Out	N/A	1	N/A	N/A	8
		_					0 item(s)	1/2		-



# 4.9 Logout

Click Click Click





# **5.** Services

• Milesight

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

Technical Support Mailbox: support@milesight.com Web: http://www.milesight.com Online Problem Submission System: http://www.milesight.com/support/feedback.asp

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> Milesight Better Inside, More in Sight