

Network Video Recorder User Manual

V5.14

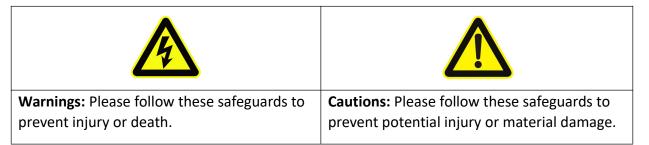
Milesight Technology Co.,Ltd.



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.

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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 Target Mode, which displays relevant detection results of ANPR and VCA events.
- Support Occupancy Live View.
- Support PAL/NTSC adaptive video input.
- Support multiple screen displaying in live view.
- Support Custom Layout.
- Support 1/4/8/9/12/14/16/32 screen live view. The channel sequence is adjustable.
- Support quick menu and tool bar in live view.
- Support displaying Event Detection Region and the detection frame to track the target.
- Support batch IP editing, setting camera's video parameters and record schedule.
- Support the switch of Live View, 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 the configuration of **Auto Tracking** function on monitor directly.
- 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 the configuration of privacy mask of camera.
- Support the configuration of Milesight PTZ cameras' Privacy Mask on monitor.
- Support OSD title and date configuration.
- Support instant playback.

- Support setting view to Original or Resize.
- Support playback on slave NVR when Milesight N+1 Hot Spare is enabled.
- Support the NVR-side Dewarping function of all cameras on monitor.
- Support the setting of Frame Rate and Bit Rate of different Record Stream Types separately according to the actual situation to achieve bandwidth saving.
- Support both Bundle-stream Mode and Multi-stream Mode of fisheye channels.
- Support Two-way Audio.

HDD Management

- Support hard disk and NAS storage.
- Support S.M.A.R.T technology.
- Support RAID, Group management and Storage Quota.
- 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 ANR (Automatic Network Replenishment) for replenishing the recording gap due to internet interruptions.
- Support Transcoding for remote playback.
- Support recording with Primary Stream, Secondary Stream and Primary + Secondary Stream.
- Support General Playback, Event Playback, Tag Playback, Split 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 VCA 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.
- Support the recording and snapshot in the channels where the events triggered.
- Support Smart Search in 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 Auto Backup function of NVR Pro 8000 Series.
- 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 VCA 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, PTZ action and on/off relay out.
- Support the Picture Attached function for Email Linkage Alarm Action.

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 Milesight Cloud.
- 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.

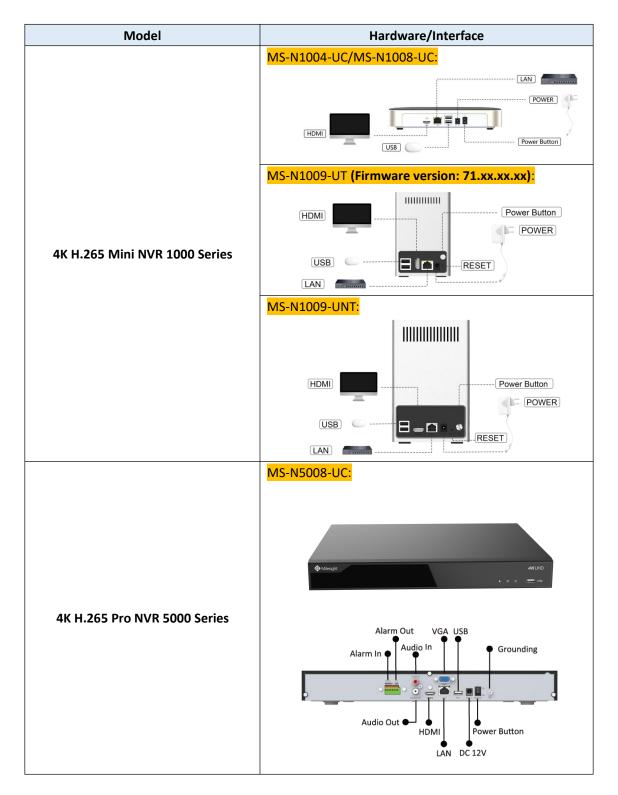
Other Functions

- 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.

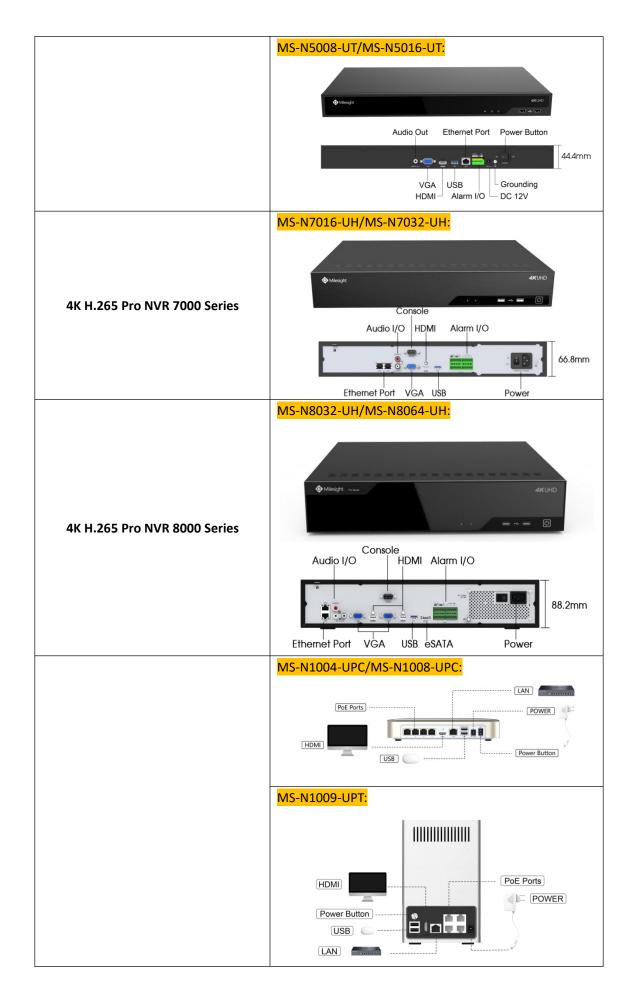
2. Hardware

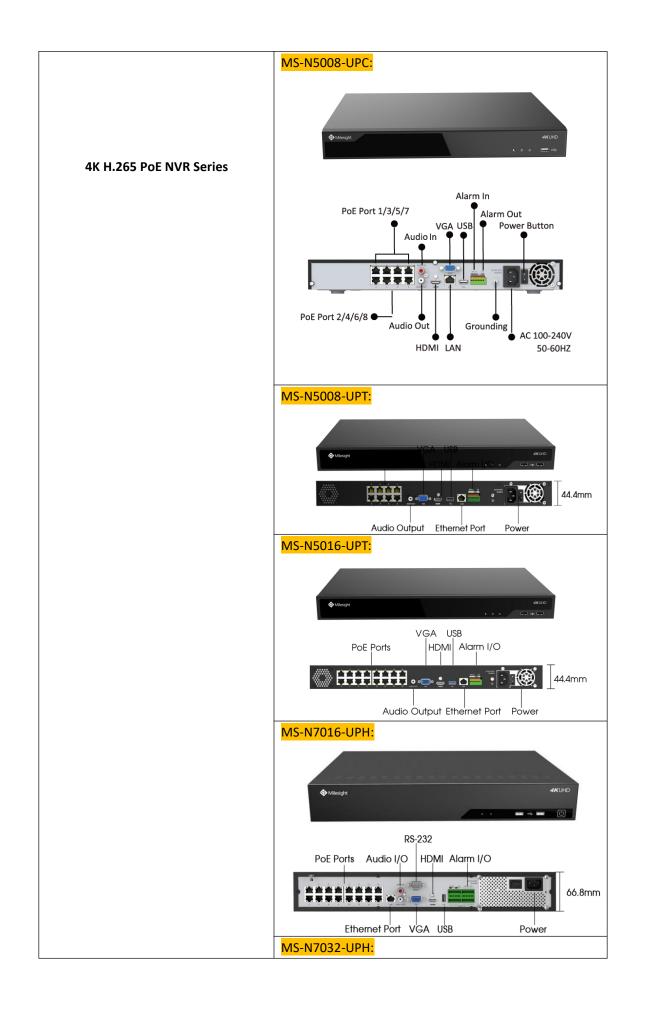
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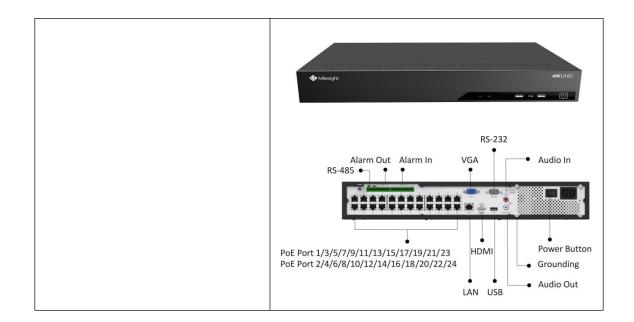
2.1 Panel Buttons



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2.2 Using a USB Mouse

Item	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.
		(2) Set the target area in motion detection, VCA and privacy
	Click and drag	mask alarm settings.
		(3) Drag to set the digital zoom area.
		(4) Drag the channel and the time scroll bar.
Dight Dutton	Single click	Live view: shows pop-up menu.
Right Button	Single-click	Menu: exit and go to Live View.
Scroll-wheel	Scroll up	Scroll up the page.
Scioli-wheel	Scroll down	Scroll down the page.

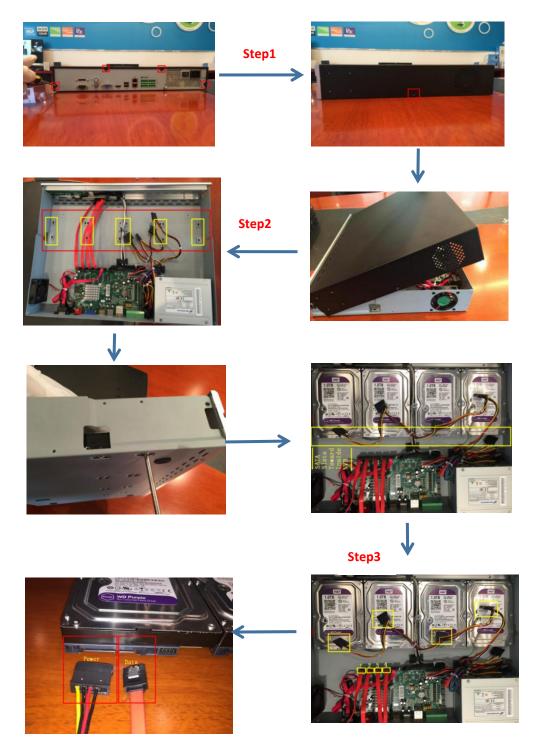
2.3 Hard Disk Installation

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.



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2.3.2 MS-N8000 series Hard Disk Installation

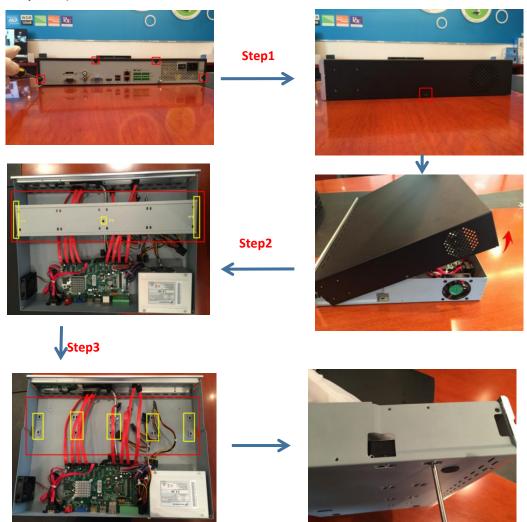
Step1. Unscrew the back and both sides' screws to open the upper lid.

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)

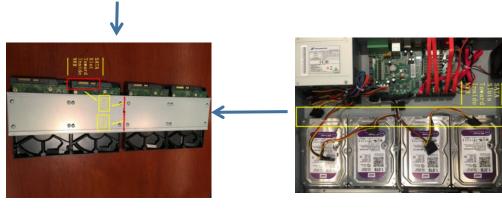
Step4. Join the power connectors to corresponding hard disks.(Install lower hard disk panel before upper one)

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



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Step5



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.

Step 1. Set password to active admin account.

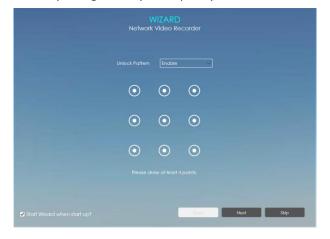
	WIZARD Network Video Recc	order		
	User Name admin Password Confirm Language English R			
Start Wizard when startup?		Back	Next	

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.

Step 2. Enable Unlock Pattern.

You can choose whether to enable Unlock Pattern according to your needs and set Unlock Pattern. Unlock Pattern is easy to login the system quickly.



Note:

- 1. Make sure your NVR's version is 7x.9.0.11 or above.
- 2. Only the Wizard can enable Unlock Pattern when the NVR is active.

Step 3. 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.

	Ne	WIZARD twork Video Reco	rder		
*		What's your father's no What's your father's no What's your father's no	ume? 🗸		
✓ Start Wizard when startup?			Back	Next	Skip

Note:

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

Step 4. Date and time setting.

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

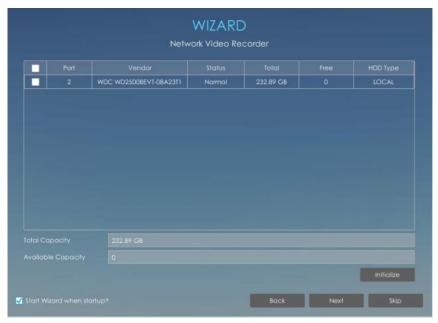
	WIZARD	
Ne	twork Video Recorder	
Time Zone	(UTC-08:00) United States - Pacific Time	
Daylight Saving Time	Auto	
Synchronize with NTP server		
	pool.ntp.org	
Set Date and Time Manually		
		÷
✓ Start Wizard when startup?	Back	Next Skip

Step 5. Network setting.

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

	WIZ/ Network Vide			
	NIC	LAN 🔻		
	IP Address Subnet Mask	192.168.7 .111		
	Gateway Preferred DNS Server	192.168.7 .1		
	Alternate DNS Server			
	PoE NIC IPv4 Address	192.168.20 .1		
🗹 Start Wizard when startup?		Back	Next	Skip

Step 6. Disk Management.



Step 7. Camera Management.

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

Add to add them to NVR. WIZARD Ľ Ľ Ľ Ľ Ľ • ►

Note:

1. It can auto detect cameras that connected to PoE ports (only for PoE NVR).

If camera status shows inactive, please click Activate to active it first.
 Step 8. P2P



	Netv	WIZARD vork Video Recorder	
	P2P Service P2P Status	Enable •	2
Start Wizard when startup?		Back	Next Skip

Select Enable to allow P2P Service. Then scan the QR code through M-sight Pro APP to get a remote and real-time view.

Note:

Only the NVR firmware version xx.9.0.9 or above supports enable P2P in Wizard directly.

Step 9. Record

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

V	VIZARD		
Netwo	rk Video Recorder		
Set all ch			
Start Wizard when startup?	Back	Finish	Skip

Step 10. Login

There are two ways to login the system.

Method 1: Input the user name and password to login the system.



	S <mark>er Login</mark> ork Video Recorde	er
User Name	admin	•
Password	•••••	
	Login	
Login with unlock pattern?		Forgot password?

If you forget the password, click Forgot possword? to reset password.

Plea	se fill in the answers for authentication.	
Question 1	What's your favorite sport?	
Answer		
Question 2	What's your lucky number?	
Answer		
Question 3	What's your favorite color?	
Answer		

Note:

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

Method 2: Click Login with unlock pattern? to login the system with Unlock Pattern if you enable Unlock Pattern.

	S <mark>Er LOC</mark> rk Video Re	
User Name	admin	
\odot	\odot	\odot
\odot	\odot	\odot
\odot	\odot	\odot
		Forgot unlock pattern?

If you forget Unlock Pattern, click Forgot unlock pattern? to reset Unlock Pattern.

Re	eset Unlock Pat	tern
Please fill in	the password for au	thentication.
User Name	admin	
Password		
	Next	Cancel
	(A.C	

Note:

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When users enter the wrong password for four times, the login locking will be triggered. After being locked, the same user should wait for five minutes to log in again.

		er Loc Video Re		r		
User Name	e ad			•		
\odot)	\odot	•)		
\odot)	\odot	•)		
ullet)	\odot	lacksquare)	R	
Log	in (ail	edl 3 attem	ipts left!]		

3.2 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.

	ê 🗖 ⊞ ⊞ ⊞ ⊞ · │ 🐼 🗉	×	□* \$7 # \$ \$ \$ 17.24.49 2021-02.17
lcons	Descriptions	lcons	Descriptions
	Lock/Unlock the tool bar		One screen layout
	4 screen layout		8 screens layout
	1+7 screens layout		9 screens layout
	12 screen layout		1+11 screens layout
	2+10 screens layout		16 screen layout
$\exists \!$	Custom layout	¢	Target Mode
2	Occupancy Mode		Start all channels recording (for all displaying channels)
Ŕ	Stop all channels recording (for all displaying channels)	¥	Adjust image in proportion (for all displaying channels)
Ţ	Display settings (for all displaying channels, including Play Mode, Color, on/off of Stream Info, Channel Name, Borderline, Page Info, Time Info and Event Detection Region.) Note: ① Support displaying Event Detection Region and the detection frame to track the target w hen the channel is full screen on Live View int erface. ② Make sure your camera model is MS-CXXXX-XXC, and the camera's version should be 4X.7.0.77 or above.		The Do Not Disturb function only turns off the notification of the Alarm Actions (for all displaying channels) Note: Do Not Disturb function is not valid for changing corresponding settings.
(*)	Sequence	14:43:53 2020-10-15	Time information, which can be set to display consistently or synchronize with the Toolbar in Display Settings.

Target Mode:

After entering Target Mode, you can choose to display or hide relevant detection results of ANPR and VCA events in the Target Preview Settings interface.

ANPR	Display	0
VCA	Display	2

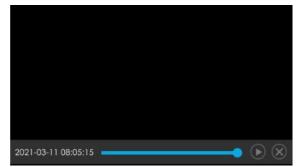
Note:

- Make sure your camera's version is 4X.7.0.77 or above so that the corresponding results for camera can be displayed in the Target Mode on the NVR side.
- Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object configuration.

If you choose to display relevant detection results of VCA events, the real-time information including Snapshot, Channel Name, Event, Detection Object and Detected Time will be shown on the left of the interface once being detected. There are three detection results according to the detection object: Human, Vehicle and N/A.

Target Nevlew Ø	cum l
Channel: CAM4 Event: Human Defection Defection Object: Human 2021-01-99 00:35:33	

You can click the corresponding record to check the latest X seconds (10s~20s) video.



Note:

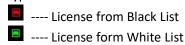
1.X = 10 + Pre Record Time

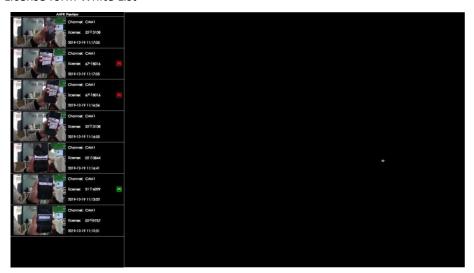
You can set Pre Record Time in Storage -> Video Record -> Record Settings interface.

Pre Record	10s	•
Post Record	15	^
Audio Record	25 38	
Record Stream Type	45	
Video Due Time	-5s	
ANR	6s 7s	
	8s	
	9s	
	10s	

2.Ensure that there is available HDD on NVR and correct record settings is made, so that you can check the record on live view.

If you choose to display relevant detection results of ANPR, the real-time license plate information including Plate Snapshot, Channel Name, License Plate Number, Detected Time and Plate Type will be shown on the left of the interface once it get detected. There are two license types:





No plate type will be shown if the license plate does not exist in Black/White list. However, you can right click the license plate information to quick add it to Black/White list or delete it from Black/White list.



Besides, you can click the license plate information to check the latest X seconds (10s~20s) video.



Note:

1. X = 10 + Pre Record Time

You can set Pre Record Time in Storage -> Video Record -> Record Settings interface.

Pre Record	10s	
Post Record	15	1
Audio Record	2s 3s	
Record Stream Type	45	
Video Due Time	- 5s	
ANR	6s 7s	
	8s	
	9s	
	10s	

- 2. Ensure that there is available HDD on NVR and correct record settings is made, so that you can check the record on live view.
- Ensure that NVR can get the license plate information. Please set TCP which is the default mode as Post Type. It can be set in Camera web page -> Advanced Settings -> ANPR -> Settings interface.

LPR Message Post Settings	
Enable LPR Message Post:	
Post Type:	TCP 🗸
Camera LPR Port:	3344

Occupancy Mode:

After entering Occupancy Mode, a professional-level Occupancy Live View interface pops up on the screen with full screen coverage. The real-time count results of all cameras within the set group, including the number of people entering, leaving and staying, as well as the traffic light status indicating whether the current number of people staying reaches the set maximum number of people staying, will be displayed in this interface.

Available:0		filesight Group	o3 @
			
Ð			Ð

Available: Display the value of the remaining number of people staying in real time, and the minimum value is 0. (Available value = Max. Stay - Stays, Max. Stay is set in the Smart Analysis -> Analysis Settings -> People Counting interface)

Stays/In/Out: Display the number of people staying, entering and leaving in real time. (Stays value = In value - Out value, the minimum number of people staying is 0)

Display Settings: Click to select which Group of data to display in real time.



There are two traffic light states:

Green Light .--- The current number of people staying doesn't reach the set maximum number of people staying. And below display Reminders of Green Light, Reminders of Green Light is set in the Smart Analysis -> Analysis Settings -> People Counting interface.

Available: 4	Milesigt	Group1	\$
	Stays: 2		
	2 In: 2		
Ð	Out: 0	Weicomell	

Red Light Set In the current number of people staying reaches the set maximum number of people staying. And below display Reminders of Red Light, Reminders of Red Light is set in the Smart Analysis -> Analysis Settings -> People Counting interface.



Reset: Reset the Group counting data in the Occupancy Live View interface.

Exit: Click Discussion to exit the Occupancy Live View interface.

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

Icons	Descriptions
	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 VCA alarm

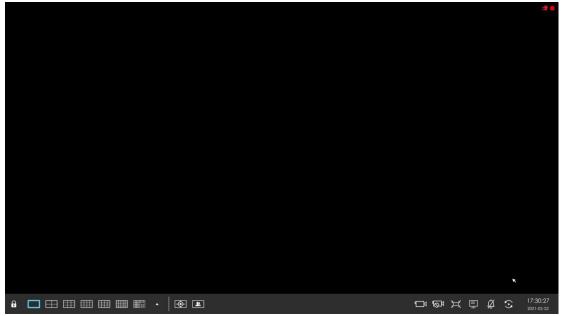
Right click in the Live View and the quick operation menu pops up.

Menu Single Screen Multi Screen	
Preview Mode	🗸 Regular Mode
Display Info	Target Mode
Previous Screen	Occupancy Mode
Next Screen	
Logout(admin)	

Item	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 7000 Series, PoE NVR 7000 Series and Pro NVR 8000 Series)			
Multi Screen	Switch to multiple screen layouts			
Preview Mode	Regular Mode, Target Mode and Occupancy Mode are available			
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			

Note:

1. The functions and channel status on the sub screen are the same as that on the main screen of both NVR 7000 Series and NVR 8000 Series.



2. For the Sub Screen Ctrl function of Pro/PoE NVR 7000 Series, you can choose whether these two outputs are independent or synchronous. And if you change the option, the modification will take effect after rebooting.

* .	System Settings		CPU 0% Memory 23%
		General	
	Date & Time Devic	6	
	Device Name	NVR	
	.HDMI/VGA.Output	Synchronous	•
	HDMI/VGA Resolution	1920 x 1080 / 60Hz	-
Network	Quick Screen Switch	Disable	
	HDMI Audio	Enable	
Holiday	Audio Out	Enable	-
	Event Popup	HDMI	•
User	Event Popup Duration Time	85	•
	Occupancy Live View	HDMI	•
Access Filter	Mouse Pointer Speed Level	5(Default)	•
Access filles	Wizard	Start	
Maintenance	Boot Wizard	Engble:	
Maintenance	Boot Authentication	Englie	
	Menu Authentication	Disable	
Hot Spare	Settings Page Timeout	Disable	
	Auto Logout	Disable	
	Display When Logout	Edit	
	Language	English	
		and the second se	
Live View			Apply Back

Quick Operation for single channel

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

	◎ 🖬 • 🛱 •	_% थ ठ	\odot X
lcons	Descriptions	lcons	Descriptions
Θ	Manually record		Image Configure
۲	PTZ control	Ħ	Original/Resize the image
40	Audio on/off	S	Two-way Audio
Q	Digital zoom	Ō	Snapshot manually
\odot	Instant Playback	÷	Fisheye Mode
×	Close menu		

Note:

You can right-click to exit the instant playback.

Fisheye Mode:

Click to enter Fisheye Mode, which will display full screen fisheye channel. Click or any other icons in this page to enter NVR-side Dewarping. Then you can set installation modes and display modes for the camera on the Fisheye tool bar. After finished, click of to end Dewarping. Note:

- 1. NVR-side Dewarping is available for all devices including third-party devices.
- 2. Milesight NVR Only supports one channel Dewarping.



Installation Mode: Ceiling Mount/ Wall Mount/ Table Mount

Display Mode: 10/1P/2P/4R/103R/1P3R

Fisheye Auto Tracking: Comprehensive Fisheye Auto Tracking avoids any details missing by performing the digital Pan/Tilt/Zoom to track the moving objects automatically.

Note:

Fisheye Auto Tracking function is only supported in On-board Dewarping and ceiling mode with Regional View on fisheye network camera.

PTZ Mode:

Click to enter PTZ mode, and the selected channel will be full screen.



You can do PTZ, Preset, Patrol, Pattern, Lighting for 30s, Lens Initialization and Auxiliary Focus operation in the PTZ panel.

Meanwhile, there are four icons in the tool bar. The descriptions are as below.

Icons Descriptions Icons Descriptions

£	Lock/Unlock the tool bar	3D	Enable/Disable 3D positioning
\odot	PTZ Manual Tracking	1 *	Show/Hide the PTZ control panel

Note:

- 1. Ensure that your camera's version is 4X.7.0.74 or above before you use Lighting for 30s, Lens Initialization, Auxiliary Focus and PTZ Manual Tracking.
- 2. Fisheye channels also support the PTZ operation, which allows users to adjust the on-board monitoring angle of Fisheye view.

Two-way Audio:

Click Solution to enable Two-way Audio, which achieves the communication between NVR and camera, so that you can talk with your camera in NVR local monitor side.



Note:

1. Only Milesight NVR 7000 and 8000 series that support Two-way Audio now, other series only support Audio function.

2. The Two-way Audio only supports one channel talking at one time.

3. Two-way Audio and Audio function can not be used together, including Audio of Playback.

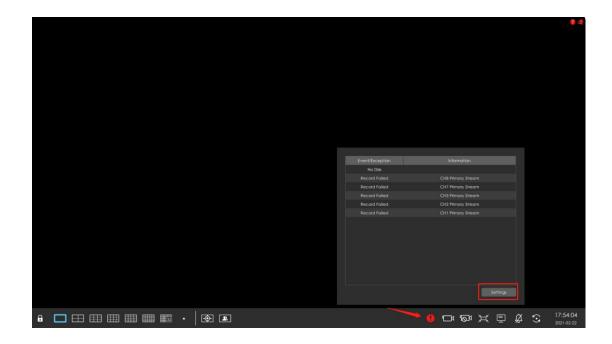
4. The audio interface of NVR can only be used alone. When other devices are talking to NVR, it would indicate that the device is busy if you enable Audio or Two-way Audio of other channels at the same time.

Local Privilege	Remote Privilege
All	
Camera Management	Camera Management
PTZ Control	PTZ Control
PTZ Settings	PTZ Settings
Two-way Audio	Two-way Audio
Record Settings	Record Settings

Event Notification:

The prompt icon will automatically blink in the bottom bar when corresponding event is triggered. You can click it to check alarm details. And it can be unlocked manually.

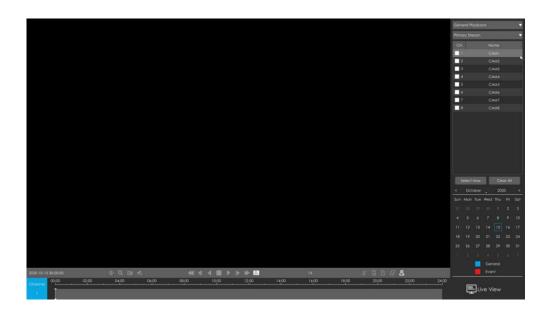
Also, you can select which alarm notification you want to get by click



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.

• Milesight



Step2. Select Stream Type.

Primary Stream and Secondary Stream are available.



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	CAM3
4	CAM4
5	CAM5
6	CAM6
7	CAM7
8	CAM8
9	CAM9
10	CAM10
11	CAM11
12	CAM12
13	CAM13
14	CAM14
15	CAM15
16	CAM16
Select Max	Ciear All

Step4. Select date.

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

<	Au	gust	•	202	0	>
Sun	Mon	Tue	Wed	Thu	Fri	Şat
	3	4				8
	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Video Playback Tool Bar Description



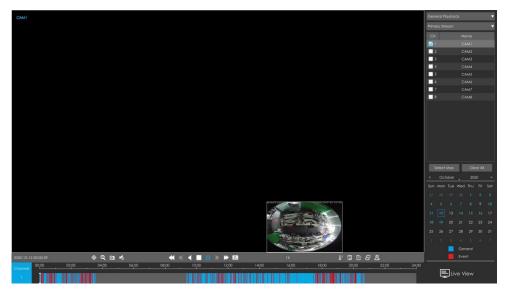
Every channel got their own file bar, and there is only one file bar matching with the selected channel. The tool bar can display multiple types record. It shows that in this record period what kind of event has happened. The symbolic meaning of each color is:

Blue—General

Red --- Event

Take this bar above as an example, it means that there are continuous recording and event recording in this period.

It is shown a thumbnail of what occurs at that given moment in the recorded video when you hover your mouse over the progress bar.You can Scroll the mouse wheel to get forward or backward frame of the video when you pause the video.



lcons	Descriptions	lcons	Descriptions
۲	Smart Search	ପ	Digital zoom
ίΩΞ	Snapshot	ĸ	Audio on
-	Audio off	₹	Speed down

*	Speed up		Step reverse
	Step forward		Rewind
	Play		Stop
11	Pause	₽Ū	Timeline cutting
	Lock video file	2	Quick tag
Ū	Custom tag	£.	File Management
+	Zoom in time bar		Zoom out time bar
. i .,	Best Decoding Performance	A	Smart Play Speed

Speed up/down: You can adjust the speed even when playback is paused.

Lock Video: Once the video is locked, the whole file where the video located won't be overwritten. Milesight NVRs support the display of locked icon on the playback bar so that the corresponding files in the playback page can be identified directly. 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. Milesight NVRs support the display of tagged icon on the playback bar so that the corresponding files in the playback page can be identified directly. You can backup video via tag in Retrieve interface or do tag playback in Playback interface.

Best Decoding Performance: This function is supported for NVR 8000 Series, by which the decoding resources of the other screen can be used for playback when the decoding performance is insufficient. Here are some notes for using this feature below.

Note:

- 1. This button can be available only when HDMI2/VGA2 of NVR is enabled.
- 2. This button only exists in General Playback, Event Playback and Tag Playback.
- 3. Another screen will be black once this function is enabled.
- 4. The status of this option is temporary. Once you exit the playback interface, this function will automatically turn off. The other screen will restore preview, and the decoding resources of the two screens will be reassigned.

Smart Play Speed: You can configure Play Speed for General Video and Event Video and choose to skip General Video according to your preference.

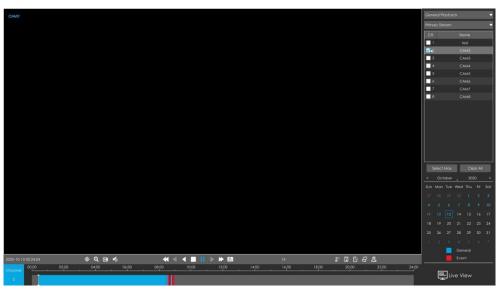


Note:

1. Only NVR firmware version xx.9.0.9 or above supports Smart Play Speed.

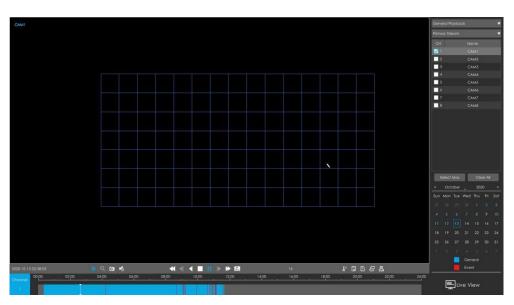
Smart Search: NVR can search out all relevant motion events and play all the event recording files of the selected area. Here are the steps of how to use the function.

(1) Go to Playback interface, select a channel to playback.



(2) Click to enable Smart Search.

(3) Draw an area in the frame and NVR would play the video files after searching out all motion events of the area.

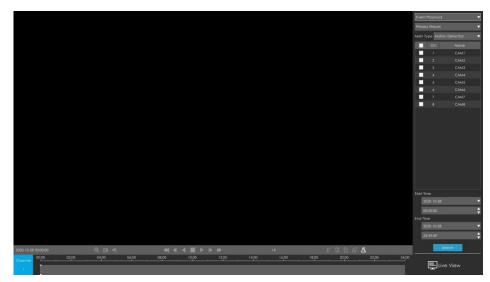


Note:

- 1. Only NVR firmware version xx.9.0.10 or above supports Smart Search
- 2. Make sure your Camera version is xx.7.0.76 or above.
- 3. Smart Search and Smart Play Speed can not be used together.
- 4. Smart Search is available only when playing in a single channel.

3.3.2 Event Playback

📀 Milesight



Step 1. Select Event Playback as playback type.

Event Playback	•
General Playback	
Event Playback	R
Tag Playback	
Split Playback	
Picture Playback	

Step 2. Select Stream Type.

Primary Stream and Secondary Stream are available.

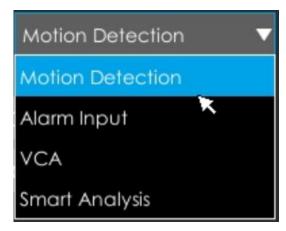
Primary Stream	-
Primary Stream	
Secondary Stream	

Step 3. 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
V		CAM1
	2	CAM2
	3	САМЗ
	4	CAM4
	5	CAM5
	6	CAM6

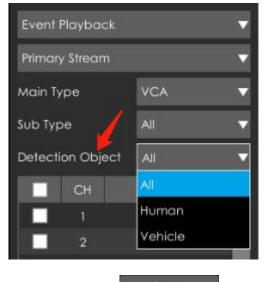
Step 4. Select Event Type.



In particular, the Detection Object option is available only if the Main Type is VCA and the Sub Type is one of several VCA events. You can search and playback the video that meets the corresponding conditions according to the selected Detection Object. The Detection Object has three options: All, Human and Vehicle.

The VCA events which support the human/vehicle detection object function are:

- ① Region Entrance
- ② Region Exiting
- ③ Advanced Motion Detection
- ④ Line Crossing
- ⑤ Loitering



Step 5: Select Start Time and End Time, click

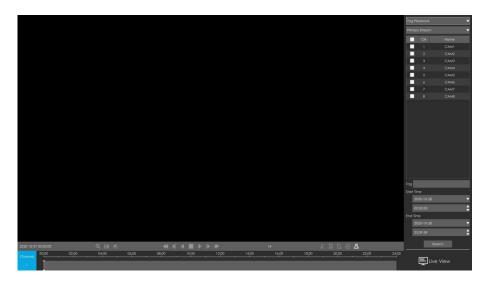
to search the record.



Video Playback Tool Bar Description are the same as General Playback, except for those icons that are not locked or tagged on the playback bar.

3.3.3 Tag Playback

📀 Milesight



Step 1. Select Tag Playback as playback type.

Tag Playback	-
General Playback	
Event Playback	
Tag Playback	
Split Playback	R
Picture Playback	

Step 2. Select Stream Type.

Primary Stream and Secondary Stream are available.

Primary Stream	-
Primary Stream	
Secondary Stream	

Step 3. Select channel.

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

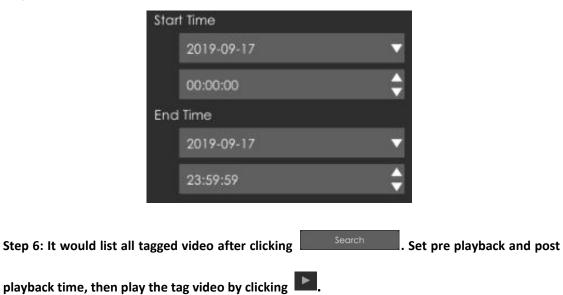
	СН	Name
V		CAM1
	2	CAM2
	3	CAM3

Step 4. Input tag name or any key words of tag.



Step 5: Select Start Time and End Time.

📀 Milesight





Video Playback Tool Bar Description are the same as General Playback, except for those icons that are not locked or tagged on the playback bar.

3.3.4 Split Playback

Split Playback allows users to select a video channel and set a time range to divide the video files into several parts in the specified time period according to their needs when watching playback, so that users can watch videos of different time simultaneously.

• Milesight



Step 1. Select Split Playback as playback type.



Step 2. Select Stream Type.

Primary Stream and Secondary Stream are available.

Step 3. Select channel.

Select a channel you want to do play back. You are allowed to select only one channel at one time.

CI	H	Name
1		CAMI
2		CAM2
3		CAM3
4		CAM4
5		CAM5
6		CAM6
7		CAM7
8		CAM8
9	ф. — ;	CAM9

Step 4. Set Start Time and End Time.

Set Start Time and End Time and click Search button to search playback records of the chosen channel. The time period should be within 24 hours



1
ľ

Step 5: It would start playing after clicking

, displayed in 4 split screens by



1-1		1-2				Split Playback	
						Plimary Stream	
						СН	Nome 🔺
						0	Cashi (
						• 2	CAM2
						• 3	Самз
						• 4	CAM4
						• 5	CAM5
						• 6	CAM6
						• 7	CAM7
						• 8	CAMB
						• 9	CAM9
						• 10	
						•11	CAM11
						012	CAM12
						• 13	CAM13
						• 14	CAM14
						• 15	CAM15
						0 16	CAM16
						017	CAM17
						0.18	CAM18
						 19 20 	CAM19 CAM20
						Stort Time	
						2020-07-02	
						00:00:00	\$
						2020-07-02	
						23:59:59	\$
2020-07-02 00:01:11	© Q (2≣ 🐔 🛛 📢 🖬 📕 📗	▶ da	1X	F 6 6 8	a 🔳 🎟 🎟		Search
Channel 00,00 02,00	04,00 06,00 08,00 10,00		14,00 16,00		20,00 22,00 24,00		
1-T						Ęu	ive View

Step 6: Select Different Split Screen Numbers.

Go to in the Toolbar, which corresponds to 4/9/16 screens playback.You can click any one of them to switch to different layout.It would segment and play the video according to your selection automatically.

3.3.5 Picture Playback

Milesight



Step 1. Select Picture Playback as playback type.

Picture Playback	•
General Playback	
Event Playback	
Tag Playback	
Split Playback	
Picture Playback	

Step 2. Select channel.

	СН	Name
V		CAM1
V	2	CAM2
	3	CAM3
	4	CAM4

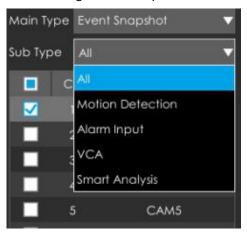
Step 3. Select Snapshot type, including Live View Snapshot, Playback Snapshot, Continuous Playback and Event Playback.

Live View Sn	apshot 🔻
Live View Sn	apshot
Playback Sn	apshot
Continuous S	Snapshot
Event Snaps	hot.

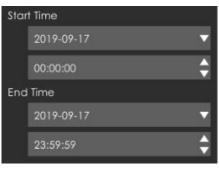
Live View Snapshot and Playback Snapshot refer to the picture file manually captured in Live View and Playback page.

Continuous Snapshot requires you to set continuous snapshot schedule in Storage-> Snapshot->Snapshot Schedule interface.

Event Snapshot includes Motion Detection, Alarm Input, VCA and Smart Analysis. Select corresponding event and click Search to get event snapshot files.



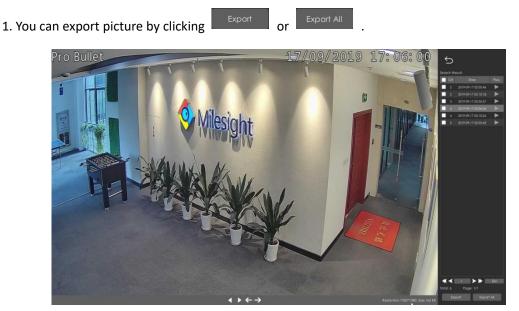
Step 4: Select Start Time and End Time.



Step 5: It would list all snapshot after clicking

Click Let to play the selected picture, or click Let to auto play pictures.

Note:



2. Select Dictionary and Snapshot Resolution to be exported. The Snapshot Resolution includes Auto, 704*576, 640*360, and the default option is Auto.

		Device			
Device	Nam	• (Å)	Size	Туре	Date Modified
		No d	evice found.		
				R	
Operation					
Format	Directory				
Refresh	Snapshot Resolution	Auto			•
				Expor	t Cancel

An information pop up to prompt you to check download status in Download Progress panel

Information
Please check download status in download progress interface.

You can view the file download process in the Download Process panel, including the remaining

time required for all files to be downloaded. Click 📲 to delete all download records in the panel.

Click \bigcirc to view the device status and perform the following operations: New Folder, Format and Refresh.

	PU 29	6 Memory	23%
Remaining Time		00:00:00	
NVR-CH01_\$20210219-01483	37_E202102	19-015038.mp4	100% X
Ū		ö	

Note:

Download file can not exceed 100,000 at a time.

Only one file can be downloaded at a time, and files are downloaded in the order.

Icons	Descriptions	lcons	Descriptions
	Play backward		Play
←	Previous picture	\rightarrow	Next picture
¢	Back to search interface		

3.3.6 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.

						General Playba	ick 🔻
						Primary Shearn	
						СН	
						21	CAMI
						2	CAMZ
		01				3	
		Playbac	k File Managemen			4	
- Vide	o Clip	Playback Snapshot	Locked File	100		5	
	Channel	StartTime-EndTi	-	Sze		6	
	Crowner	2019-09-17 02:00:00-2019-		42.4 MB		7	
	1	2019-09-17 00:01:19-2019-		907.4 M8			
		2019-09-17 00:30:04-2019-		907.4 MB 82.4 MB		9	
		2019-09-17 00:32:39-2019-		82.4 MB		10	
		2019-09-17 00:32:37-2019-		23.1 MB 569.0 MB		11	
		2011/07/17 08:00:00:0017-	ertr weather.	- 50 P 54 PP 88		12	
						13	
						14	
						15	
						16	
						Select Max	Ceor Al
Local Andrews			Total: 5 Page:	1/1 ≪ ≪ 1 >>> 60		Sun Mon Tue	Wed Thu Fri Sat
	d items: 0 a: 0 bytes						
Fortier and							
			Exp	ort Al Export Concel			
					*		
						. 8	
् 🗖 🚽	••	4 =	18	F 🖬 C 8 🚪	+ -		
18 Q, 🙆 📢 02;00 04;00 06;00	08;00	10,00 12,00	14;00	16;00 18;00 20;00	22,00 24,00		
	-						

Take clip video as example. Step 1. Cut recorded files.

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

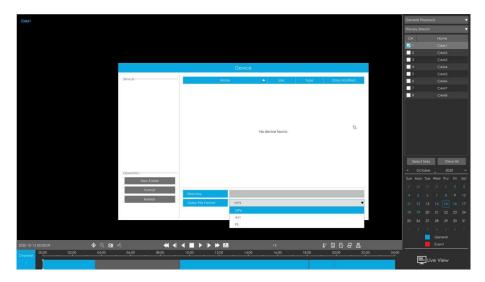


Step 2. Click 📕 to save the clipped video.

Step 3. Click 🗐 to pop up File Management interface. Select the video you clipped and click

Vid	eo Clip	Playback Snapshot	Locked File	Tag	
	Channel	StartTime-End	Time		Size
	1	2019-09-17 00:00:00-2015			42.4 MB
	1	2019-09-17 00:01:19-2019			907.4 MB
	1	2019-09-17 00:30:04-2019	-09-17 00:32:39		82.4 MB
	1	2019-09-17 00:32:39-2019	-09-17 00:33:27		25.1 MB
	1	2019-09-17 00:33:27-2019	-09-17 00:51:27		569.0 MB
					Ø

Step 4. Select the device to storage exported video and then click



Note:

You can also directly format and create new folder of storage device here.

An information pop up to prompt you to check download status in Download Progress panel.



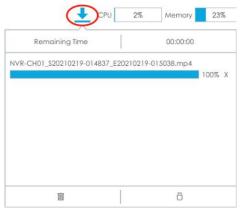


Note:

The download time of files depends on the time length of video you want to backup. You can view the file download process in the Download Process panel, including the remaining

time required for all files to be downloaded. Click 📲 to delete all download records in the panel.

Click ^(a) to view the device status and perform the following operations: New Folder, Format and Refresh.



Note:

Download file can not exceed 100,000 at a time.

Only one file can be downloaded at a time, and files are downloaded in the order.

3.4 Retrieve

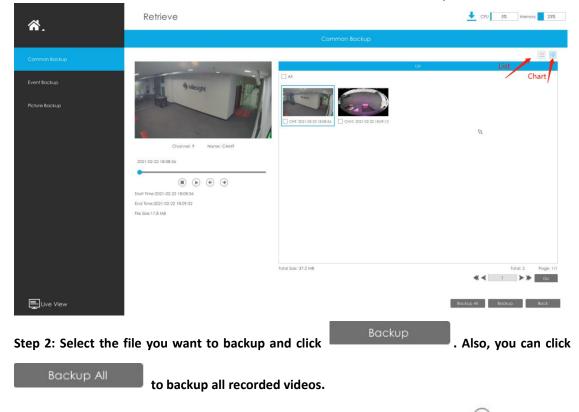
3.4.1 Common Backup

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

				Com	попъскор					
	Channel	IIA []								
		1	2	3	4	5	6	7	8	
		9	10	🗆 11	12	13	14	15	16	
		17	18	19	20	21	22	23	24	
ure Backup		25	26	27	28	29	30	31	32	
ule backup		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	
	Time									
	Stream Type	Primary Street	im							
	Record Type	All								
	File Type	All								
	Start Time	2021-02-22				▼ 00:00:00				
	End Time	2021-02-22				▼ 23:59:59				

Channel	All							
	☑ 1	2	3	4	5	6	7	8
	9	10	11	12	13	14	15	V 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
lime	From 2020-12	2-04 03:30:49 To 2021-0	02-22 18:04:25					
Stream Type	Primary Strea	m						
Record Type	All							
file Type	All							
Start Time	2021-02-22				▼ 00:00:00			
End Time	2021-02-22				▼ 23:59:59			

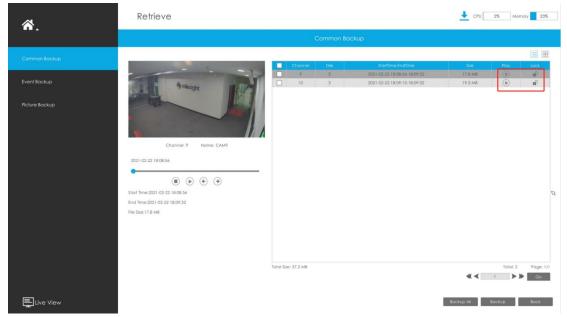
The search result can be chosen as a List or Chart. The default search result presents as a list.



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.

Expert



Step 3: Select the format to be exported, which includes MP4, AVI and PS format and then click

* .	Retrieve		CPU 4% Memory 23%
		Common Backup	
		Device	Size Play Lock
	Device	Name 🔺 Size Type Date N	17.8 MB (> all Accilied 19.3 MB (> all
Picture Backup			
		No device found.	
		No device jourid.	
	Operation		
	New Folder		
	Format	Directory	
	Refresh	Video File Format MP4	-
		Export	Cancel
		Total Size: 37.2 MB Select Size: 17.8 MB	Total: 2 Page: 1
			≪ < 1 > ≫ Go

Then you can view the file download process in the Download Process panel, including the remaining time required for all files to be downloaded. Click to delete all download records in the panel. Click to view the device status and perform the following operations: New Folder, Format and Refresh.



Note:

Download file can not exceed 100,000 at a time.

Only one file can be downloaded at a time, and files are downloaded in the order.

3.4.2 Event Backup

Support to search out and backup picture and video according to event type. The event type includes Motion Detection, Alarm Input, VCA and Smart Analysis.

Common Backup	Main Type	Motion Detec	tion						
	Stream Type	Primary Stream	n						
	Start Time	2021-02-22				00:00:00			
	End Time	2021-02-22				23:59:59			
icture Backup	Pre Playback	30s							
	Post Playback	301							
	Channel	All							
		2 1	2	3	₩ 4	5	6	7	8
		₩ 1 ₩ 9	10	⊘ 11	12	13	☑ 0	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

In particular, the Detection Object option is available in the Event Backup interface only if the Main Type is VCA and the Sub Type is one of several VCA events. You can search and backup the results that meet the corresponding conditions according to the selected Detection Object. The Detection Object has three options: All, Human and Vehicle.

The VCA events which support the human/vehicle detection object function are:

- ① Region Entrance
- ② Region Exiting
- ③ Advanced Motion Detection
- ④ Line Crossing
- ⑤ Loitering

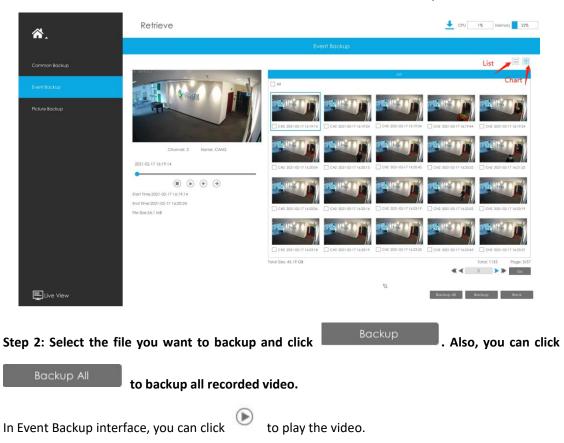
^.		Provide Research							
				Eve	nt Backup				
	Main Type	VCA							
	Sub Type	All							
	Detection Object	All		1	D _a				
	Stream Type	Al							
cture Backup	Start Time	Human							
	End Time.	Vehicle 2021-02-17				▼ 23:59:59			
	Pre Playback	305							
	Post Playback	30s							
	Channel	- AI							
			2	3	4	5	6		8
		9	10		12	13	14	15	16
		17	18	19	20	23	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



Main Type	Motion Detec	tion						,	
Stream Type	Primary Stream	n							
Start Time	2019-09-17	2019-09-17				• 00:00:00			
End Time	2019-09-17	2019-09-17						;	
Pre Playback	305	301						,	
Post Playback	305								
Channel	All								
	☑ 1	2	⊘ 3	₹ 4	5	ه 🔽	7	8	
	9	10	11	12	13	14	2 15	16	

🔽 to search video.

The search result can be chosen as a List or Chart. The default search result presents as a list.



ommon Backup								
	26 - 2463 Gyr. (233-		Source	Chiannel	Disk	Startlime-EndTime	5120	Play
			CH2	2	3	2021-02-17 17:51:56-17:53:05	51.7 MB	
			CH2	2	3	2021-02-17 17:52:11-17:53:20	55.3 MB	
	A MARKED A M		CH2	2	3	2021-02-17 17:52:40-17:53:49	50.8 MB	
ture Backup			CH2	2	3	2021-02-17 17:55:57-17:57:07	53.9 MB	
			CH2	2	3	2021-02-17 17:56:35-17:57:45	52.3 MB	
			CH2	2	3	2021-02-17 18:05:03-18:06:13	53.9 MB	
			CH2	2	3	2021-02-17 18:05:26-18:06:36	53.9 MB	
			CH2	2	3	2021-02-17 18:05:36-18:06:46	53.8 MB	۲
	Channel: 2 Name: CAM2		CH2	2	3	2021-02-17 18:13:48-18:14:01	12.2 MB	Þ
			CH2	2	3	2021-02-17 18:14:01-18:14:58	41.7 MB	۲
	2021-02-17 17:51:56		CH2	2	3	2021-02-17 18:14:23-18:15:33	52.2 MB	
			CH2	2	3	2021-02-17 18:14:33-18:15:43	53.7 MB	۲
	(■) (►) (➡)		CH2	2	3	2021-02-17 18:15:14-18:16:24	52.1 MB	
			CH2	2	3	2021-02-17 18:26:01-18:27:10	53.7 MB	۲
	Start Time:2021-02-17 17:51:56		CH2	2	3	2021-02-17 18:27:13-18:28:22	52.3 MB	
	End Time:2021-02-17 17:53:05		CH2	2	3	2021-02-17 18:28:58-18:30:08	55.2 MB	۲
	File Size:51.7 MB		CH2	2	3	2021-02-17 18:29:09-18:30:19	52.2 MB	
			CH2	2	3	2021-02-17 18:29:34-18:30:44	55.5 MB	
			CH2	2	3	2021-02-17 18:29:45-18:30:55	52.5 MB	
			CH2	2	3	2021-02-17 18:30:01-18:31:11	53.8 MB	D
			CH2	2	3	2021-02-17 18:30:13-18:31:23	54.0 MB	
			CH2	2	3	2021-02-17 18:30:37-18:31:47	55.2 MB	Þ
		Total Size: 4	5.19 G8				Total: 1133	Page

Step 3: Select the format to be exported, which includes MP4, AVI and PS format and then click

* .	Retrieve					上 СРИ	2% Me	mory 251
Common Backup								
			Device			e-EndTime	Size	Play
						51:28-07:51:30	2.6 MB	Ð
	Device	Name	🔺 Size	Туре	Date Modified	(51:47-07:52:38	33.5 MB	€
						:51:47-07:52:48	37.6 MB	()
icture Backup						152:04-07:53:14	45.0 MB	۲
uie auxup						:53:22-07:54:09	28.6 MB	
						154:19-07:54:35	8.5 MB	۲
						\$54:44-07:54:50	5.2 MB	
						1:55:08-07:55:34	12.6 MB	•
			No device found.			:55:46-07:55:54	3.2 MB	
						1:55:33-07:55:34	1.3 MB	۲
						:55:46-07:56:43	31.7 MB	
						:55:46-07:56:43	31.7 MB	۲
						1:01:30-08:01:49	6.2 MB	۲
						1:01:59-08:02:40	20.3 MB	۲
	\$ Operation					1:01:59-08:02:42	23.0 MB	€
	E New Folder					:02:55-08:03:00	2.4 MB	۲
	Fi Format					1:02:37-08:02:42	3.0 MB	۲
		Directory				:02:55-08:03:26	15.6 MB	۲
	Refresh	Video File Format	PS			1:03:52-08:04:25	18.7 MB	۲
					Cancel	:04:21-08:04:25	4.7 MB	۲
				Export	R	1:04:50-08:05:08	8.7 MB	۲
			CH2	2	7 2021-03-1	08:05:22-08:05:31	6.6 MB	•
			Total Size: 12.44 GB Select Size:	2.6 MB			Total: 403	Page:

Then you can view the file download process in the Download Process panel, including the remaining time required for all files to be downloaded. Click to delete all download records in the panel. Click to view the device status and perform the following operations: New Folder, Format and Refresh.



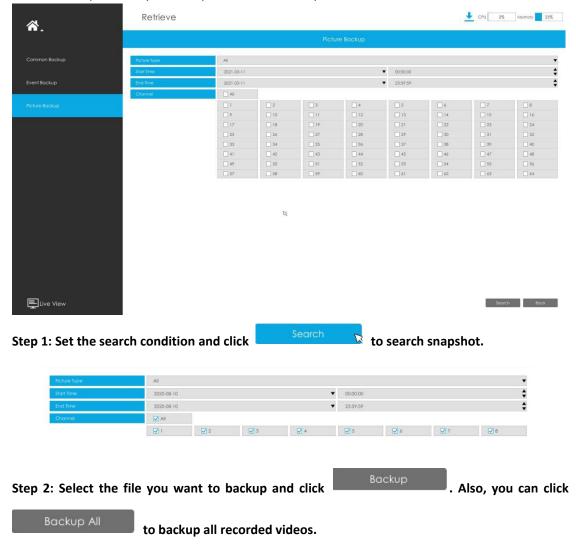
Note:

Download file can not exceed 100,000 at a time.

Only one file can be downloaded at a time, and files are downloaded in the order.

3.4.3 Picture Backup

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



				Picture Backup		
			Channel	Dak	Time	5100
	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER	3/ 0	1	3	2020-10-25 19:04:41	480 KB
Event Backup			1	3	2020-10-25 19:04:42	489 KB
			1	3	2020-10-25 19:05:33	510 KB
			1	3	2020-10-25 19:05:34	510 KB
			1	3	2020-10-25 19:05:35	508 KB
			1	3	2020-10-25 19:05:35	515 KB
			1	3	2020-10-25 19:05:35	491 KB
			1	3	2020-10-25 19:05:36	502 KB
	Channel: 2 Name: CAM2		1	3	2020-10-25 19:05:36	506 KB
	10.000 Linear		1	3	2020-10-25 19:05:36	507 KB
	 • • 		1	3	2020-10-25 19:05:36	504 KB
	Location:Disk Port 3		1	3	2020-10-26 19:07:05	510 KB
	Time:2021-01-07 00:42:12		1	3	2020-11-25 00:06:12	298 KB
	File Size:805 KB		1	3	2020-12-28-00:00:02	525 KB
			1	3	2021-01-03 16:06:08	415 KB
	Resolution:1920*1080		1	3	2021-01-25 03:38:50	595 KB
			1	3	2021-01-25 04:31:37	593 KB
			2	3	2021-01-07-00:42:12	805 KB
			2	3	2021-01-07 01:19:14	946 KB
			2	3	2021-01-07 01:19:18	503 KB
			2	3	2021-01-07 01:19:20	535 KB
		Total Size:	11.0 MB			Total: 21 Pag
					* *	E 🕨 🕨 G

Step 3: Select the Snapshot Resolution which includes Auto, 704*576 and 640*360, and click

Expo

to export selected snapshots .

evice	Nar				
Flash Disk	a			Folder	2020-08-12 18:25:57
2%	System Volume Inform	ation		Folder	2020-07-23 09:36:58
Free: 7.5G, Total: 7.6G	: 7.5G, Total: 7.6G		142.8 MB	File	2020-08-03 18:31:34
	bond0_202007231638	27.pcap	1.0 MB	File	2020-07-23 09:38:26
Operation New Folder					
	Directory	/media/usb1_1			

Then you can view the file download process in the Download Process panel, including the remaining time required for all files to be downloaded. Click to delete all download records in the panel. Click to view the device status and perform the following operations: New Folder, Format and Refresh.



Note:

Download file can not exceed 100,000 at a time.

Only one file can be downloaded at a time, and files are downloaded in the order.

3.5 Smart Analysis

You can get ANPR logs, People Counting results and Heat Map results in the page, as well as Settings for ANPR, People Counting and Heat Map.

* .	Smart Analysis						↓ c	PU 3%	Memory 25%
				ANPR					
Analysis Search	- Channel	All							
		🗆 1	2	3	4	5	6	7	8
ANPR		9	10	11	12	13	14	15	16
COM IN		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
Analysis Settings	License Plate Type	Al							•
	License Piate								
	Start Time	2021-02-18				▼ 00:00:00			\$
	End Time	2021-02-18				▼ 23:59:59			\$
	13								
Live View								Search	Back

3.5.1 Analysis Search

3.5.1.1 ANPR

You can Search and Backup ANPR logs.

📀 Milesight

	✓ Channel	IIA 🗌							
Analysis Search	Channel		2	3	4	5	6	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
		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
nalysis Settings	License Plote Type	Al							
	License Plate								
	Start Time	2021-02-20				▼ 00:00:00			
	End Time	2021-02-20				▼ 23:59:59			

Input corresponded information and click search button **Search** to search and you will get a

whole ANPR logs list. License plate snapshot will be shown on the logs list while the complete image video and license plate information will be shown on the left of the page. The License Plate Type option is convenient for users to quickly filter the black list, white list and visitor according to the license plate types.

<u>م</u> .	Smart Analysis		CPU 2% Memory 25%
		ANPR	
Analysis Search 🗸 🗸		ANPR Logs	
ANPR			
People Counting	ET LE VEALU	028 9757 208 9757 020 9751 0 02 20011 0981 449 0 02 20011 0981 444 0 02 20011 0981 449	CH2 2020-11-09 04:50:18 CH2 2020-11-09 04:50:20
Heat Map	Channel: 2 Name: CAM2	A SANA ELLI OCH IL A STA	Dia Dia
Analysis Settings 🕨 🕨		CH2 2020-11-07 04:50:30 CH2 2020-11-07 04:50:32 CH2 2020-11-07 04:50:37	CH2 2020-11-09 04:50:43 CH2 2020-11-09 04:50:44
	Channel: 2 Time: 2020-11-09 04:52:00 Licensie Prote: 4 Country, Region: N/A Direction: NA	сие 2005-11-479-65044 сис 2005-11-479-650-0 сис 2005-11-479-651-07	CH2 2020-11-070-043138
	ROLID: N/A	C CC 2005-11-69-05/207 C CCP 2005-11-69-05/201	CH2 2020-11-07 04-53-18
			Total: 487 Page: 1/25
Live View		D.	Backup All Backup Back

You can click 🕑 to play the video.



There are two methods to backup ANPR logs.

① Backup license plates you want.

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

.

Step2: Select the export file type, video stream type and video file format, then click export button.

		Device			
Device	Nar	me 🔺	Size	Туре	Date Modified
Flash Disk	1			Folder	2019-12-19 14:27:28
0%					
Free: 3.8G. Total: 3.8G	_				
nantin					
Sector Internet	Directory	/media/usb1_2/1			
iparation New Folder	Directory Expert Re	/media/usb1_2/1	Uideo		Picture
	Export File	Plate List	Uideo		Picture
	A CONTRACTOR OF A CONTRACT		Uideo		Picture

② Backup all.

Step1: Click backup all Bockup All button;

Step2: Select the export file type, video stream type and video file format, then click export button.

Then you will get corresponding file as selected export file type.

3.5.1.2 People Counting

You can Search and Backup the results of People Counting.

* .	Smart Analysis			CPU 2% Memory 26%
		Pe	ople Counting	
Analysis Search 🔻	Search Type	Group		•
ANPR	Group	All	2	3
		4	5 8	6 9
People Counting	Report Type	Doily Report	. □ •	•
Heat Map	Statistic Type Start Time	People Entered	▼ 00:00:00	• •
Analysis Settings	- And and And And			•
		5		
Live View				Search Back

Step1: Entering search conditions.

Group: Select the groups first.

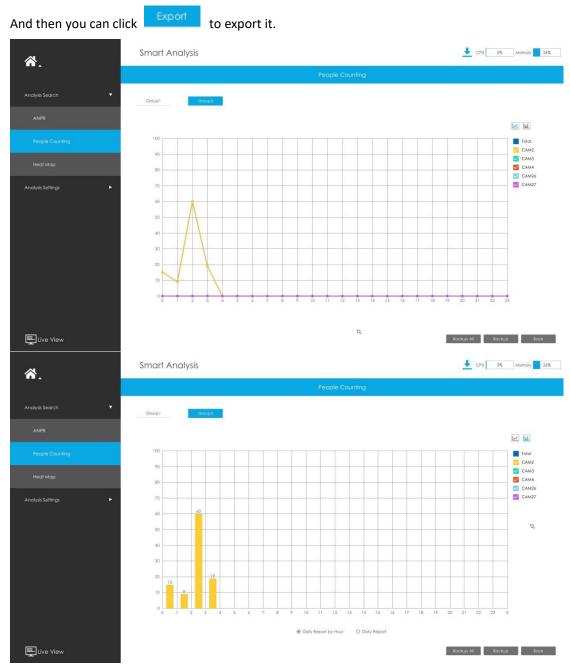
Report Type: Daily Report, Weekly Report and Monthly Report are available.

Statistic Type: People Entered, People Exited and Sum are available.

Start Time: Input the time from which you want to Search.

Step2: Click **Search** to obtain the corresponding result. There are two ways to show the

results of People Counting: Line Chart and Bar Chart.



Step3: You can backup the results of People Counting in two ways: ①Backup the group you want.

Step1: Choose the group you want to backup and click backup button

Step2: Select the file format, and then click export button.

	Na	me 🔺			
Flash Disk	a			Folder	2021-02-07 02:03:47
19%	System Volume Inform	ation		Folder	2021-02-01 11:53:52
Free: 6.2G, Total: 7.6G	MSFImage_40.7.0.76-r	3	34.6 MB	File	2020-11-10 13:41:46
	NVR-CH01_\$20210124	-000205_E20210124-00	221.1 MB	File	2021-01-24 19:06:54
	NVR-CH01_S20210124	-000205_E20210124-00	221.1 MB	File	2021-01-24 19:15:10
	NVR-CH03_\$20210127	-003718_E20210127-01	988.4 MB	File	2021-01-27 18:53:24
	NVR_Counting_Group	3_20210124192516.png	26 KB	File	2021-01-24 19:25:16
	NVR_Counting_Group	3_20210124192527.pdf	312 KB	File	2021-01-24 19:25:26
	NVR_Counting_Group	3_20210124192532.csv	960 bytes	File	2021-01-24 19:25:33
peration					
New Folder Format	Directory	/media/usb1_1			

2 Backup all.

Step1: Click backup all button

Step2: Select the file format, and then click export button. Then you will get corresponding file.

3.5.1.3 Heat Map

You can Search and Export Heat Map results.

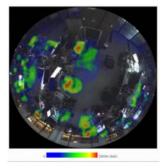
谷 .	Smart Analysis			CPU 3% Memory 26%
		Heat Map		
Analysis Search 🔹 🔻	Channel	1		•
	Main Type	Space Heat Map		•
	Report Type	Doily Report		•
	Start Time	2021-02-18	▼ 00:00:00	¢
		Space Heat Map		
Analysis Settings 🕨 🕨				
	2			
Live View				Export Search Back
				BUCK

Step1: Entering search conditions.

Channel: Select the channel first.

Main Type: Space Heat Map and Time Heat Map are available.

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



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

1994.				11							
				1							
_				1							
-				- 11							
en											
-											
-											
-											
#\$N											
_	10112	To see to	of the second se	1	1	1999	11-11	100	PERF	19 Feb	100

Report Type: Daily Report, Weekly Report, Monthly Report and Annual Report are available. **Start Time:** Input the time from which you want to Search.

Step2: Click **Search** to obtain the corresponding result and then you can click **Expo**

to export it.

3.5.2 Analysis Settings

3.5.2.1 ANPR

ANPR settings consist of Settings, List Management, Black List Mode, White List Mode and Visitor Mode. Here are some notes for using ANPR function.

Note:

- 1. Insert available HDD to NVR.
- 2. Upgrade your device to corresponded firmware version.

Camera: V4X.7.0.72-r16 or above.

NVR: V7X.9.0.7-r7 or above.

Firmware download link: http://www.milesight.com/support/download#firmware

- 3. Ensure both camera and NVR support LPR/ANPR function. Up to 16 ANPR channels are supported for Milesight NVR.
- 4. Ensure that NVR can get license plate information. Please set TCP which is the default mode as Post Type. It can be set in Camera web page -> LPR -> Settings -> General interface.

LPR Message Post Settings		
Enable LPR Message Post:	\checkmark	
Post Type:	TCP	
Camera LPR Port:	3344	

Settings

Do as following 5 steps to enable ANPR function. Camera will start to detect license plate and NVR will start to receive license plate information once these steps are done.

Indivision of the future List Management Back List Made While List Made Walder Walder Walder nandvision of the future Indivision of the future <t< 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<>													
ANR -	nalysis Search	Settings	List M	anagement	Black List N	lode	White List Mode	v	isitor Mode				
ANR 17 18 19 20 21 22 23 24 Propie Counting 23 24 25 26 27 28 29 30 31 32 Head Map Decend dow the ticrem for utings. 18 19 20 21 22 23 24 Map Decend dow the ticrem for utings. 44 45 44 45 46 47 48 Map Decend dow the ticrem for utings. Anne Anne <t< td=""><td></td><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></t<>						1	2	3	4	5	6	7	8
Antre 25 26 27 28 29 30 31 32 People Counting 41 42 43 35 36 37 38 39 40 Head Map Diame: L1 Name: CALL2 57 58 57 58 57 60 61 62 63 64	nalysis Settings					9	10	-11	12	13	14	15	16
Add 33 34 35 36 37 38 39 40 People Counting 41 42 43 44 45 46 47 48 Head Map Channet: 12 Nome: CAM12 57 58 57 60 61 42 43 44 45 46 45 46			1 604*293			17	18	19	20	21	22	23	24
Add Clear Al Add Clear Al Add <						25	26	27	28	29	30	31	32
Add Clear Add Clear Add Delete Add Delete Clear Add Delete Delete Clear Add Delete Delete <t< td=""><td></td><td></td><td></td><td></td><td></td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></t<>						33	34	35	36	37	38	39	40
Add Clear All S7 S8 S7 60 61 62 63 64 Add Clear All						41	42	43	44	45	46	47	48
None Channel: 12 Nome: CAM12 Add Chean & Chean Chean &						49	50	51	52	53	S4	55	56
Add Clear A Clear A Leano AESP22AC7381E875AAC10543A1A2035A2861188559587A10002164F938280 0 More Eds Delaho Clear A3 Clear A3 Clear A3 1 SOC_1 Image: Clear A3 Clear A3 Clear A3 Clear A3 1 SOC_1 Image: Clear A3 Clear A3 Clear A3 Clear A3 1 SOC_1 Image: Clear A3 Clear A3 Clear A3 Clear A3 1 SOC_1 Image: Clear A3 Clear A3 Clear A3 Clear A3 1 SOC_1 Image: Clear A3 Clear A3 Clear A3 Clear A3 1 SOC_1 Image: Clear A3 Clear A3 Clear A3 Clear A3 1 SOC_1 Image: Clear A3 Clear A3 Clear A3 Clear A3 1 SOC_1 Image: Clear A3 Clear A3 Clear A3 Clear A3 1 SOC_1 Image: Clear A3 Clear A3 Clear A3 Clear A3 1 SOC_1 Image: Clear A3 Clear A3 Clear A3			Channel; 12	Nome: CAM12		57	58	59	60	61	62	63	64
Add CRear Clear Al ID Nome Edit ID ROL_1 ID ROL_1		Plante drow	the senses for setting			ANPR							
ID Nome Edt Delete Cicrim 8 30 ha Volid 1 ROL1 If Processing Resolution 1280720 VIL If If ROL10 1280720 VIL If If ROL10 1280720 VIL If If If				1		License			.AE8922AC7381E6F	76AAC10543A61A	2035A28611BE8569	E3595BFA10DD21	54F6F3842B0
I ROLI I Processing Resolution 1200730 I ROLI I I I/I					Delete	License Sto	lus		Valid				
U Na Vigit Josobie Educitie Hittochan Imme Educit Detectors Satringu Educit			1000 A 1000										
Detection settings East									1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1				
								/ White List d					

Step 1: Select a channel and enable ANPR function;

License: Generated by camera's information

License Status: Show present license status, including Valid, Invalid, Expired, Inactivated

Step 2: Select processing resolution. The further distance you detect, the higher resolution is needed. 1280*720 by default;

Step 3: Enable LPR Night Mode, then you can set LPR Night Mode Effective Time. There are two options available: Customize and Auto. Auto option supports automatic switch between day and night.

LPR Night Mode	Enable		•
LPR Night Mode Effective Time	Customize		•
Start Time	18:00:00		\$
End Time	06:00:00		\$
Level			4
LPR Night Mode	Enable		•
LPR Night Mode Effective Time	Auto		•
Day to Night Value		36	Reset
Night to Day Value		82	Reset
IR Light Sensor Value	0		
Level			4

Note:

Make sure your camera's version is 4X.7.0.77 or above so that the Auto option for LPR Night

Mode Effective Time is available.

Step 4: Set ANPR function effective time;

Step 5: Set detection parameters including Detection Trigger, Confidence Level, License Plate Format, Repeat Plate Checktime and Features Identification;

Detection Trigger	Always		
Confidence Level			
Repeat Plate Checklime	0	Milliseconds 🔻	(0~60000ms)
License Plate Format	Edit		
Features Identification	🗌 All		
	Region	Direction	

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

Confidence Level: You can set the Confidence Level, and the higher the level, the more accurate the identification is.

Repeat Plate Checktime: The same license plate information won't be received on NVR within the time you set.

License Plate Format: Set corresponding License Plate Format to screen out license plates conforming to the count and format you set to improve recognition accuracy.

0	All		4	100	150
5	-	-	-		
Push	Correct Character Count Results On	ly Endble	~		

① Click 💷 to add a License Plate Format.



② Select License Plate Character Count, which is 1-9.

③ Fill in License Plate Format you want to detect. A stands for Letters, 1 stands for numbers and * stands for unrestricted type.

Push Correct Character Count Results Only:

If the count of the detected license doesn't match your configuration, it will push correct character count results by completing or reducing characters automatically.

Note:

- 1. Make sure your IPC Version is 4X.7.0.74 or above.
- 2. You can add 8 rules at most.

Features Identification: The selected features identification will be shown in ANPR logs interface.

Step 6: Set the detected ROI region which can be up to 4 regions. License plate will only be detected in the ROI regions.



List Management

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

* .	Smart Analysis			CPU 3% Memory 26%
		٨	NPR	
	Settings Eitt Management	Black List Mode White List Mode	e Visitor Mode	
Analysis Settings	Ucense Plate Plate Type	All All		
Annual as connings				Search
	License Plate MS1111	Piote Type White	Edit	Delete
		57		
	Total 1 Items	Poge: 1~1 🕊 🖌 1	> > Go	Download Template
Live View			Add Delete List	Import Export Back

There are two methods to add license plates:

① Add one by one.

Step 1: Click Add button

Step 2: Input the license plate and select license type;

Step 3: Click OK and then the license plate will be added into the list;

:

License Plate	M\$2222
Plate Type	Black

② Batch adding by importing template.

Step 1: Click Download Template button Download Template , select USB device folder and click OK to download Template;

Step 2: Input all license type and license plate number as Template shows;

1	A	В
1	Type	Plate
2	White	2008ZGZ
3	Black	34AB1234
4		

Step 3: Click Import button _____, select the file and click OK to add all license plates into list.

Device	Name 🔺			
Flash Disk	🖿 u		Folder	2021-02-07 02:03:47
19%	System Volume Information		Folder	2021-02-01 11:53:52
Free: 6.2G, Total: 7.6G	MSFImage_40.7.0.76-r3	34.6 MB	File	2020-11-10 13:41:46
	NVR-CH01_S20210124-000205_E20210124-00	221.1 MB	File	2021-01-24 19:06:54
	NVR-CH01_S20210124-000205_E20210124-00	221.1 MB	File	2021-01-24 19:15:10
	NVR-CH03_S20210127-003718_E20210127-01	988.4 MB	File	2021-01-27 18:53:24
	NVR_Counting_Group3_20210124192516.png	26 KB	File	2021-01-24 19:25:16
	NVR_Counting_Group3_20210124192527.pdf	312 KB	File	2021-01-24 19:25:26
	NVR_Counting_Group3_20210124192532.csv	960 bytes	File	2021-01-24 19:25:32
	🛌 🖹 list_demo.csv	40 bytes	File	2021-02-18 18:52:18
operation			1000	
New Folder				
Format				

Black List Mode/White List Mode/Visitor Mode

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

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

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

* .	Smart Anal	ysis						上 СРИ	3% Me	mory 28%
				AN	PR					
Analysis Search	Settings	List Management	List Mode	White List Mode	Visito	r Mode				
			1	2	3	4	5	6	7	8
Analysis Settings			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
	Channel	12 Nome: CAM12	49 57	50 58	51 59	52 60	53 61	54 62	55 63	56 64
			Black Litt Mor	e.	S	0				
			Effective Time			Edit				
			Action			Edit				
Live View								1	Apply	Back

Step 1: Enable Black List Mode/White List Mode/Visitor Mode as your demand;

Step 2: Set effective time which means Mode works during that;

Step 3: Set action including Audible Warning, Email Linkage, Event Popup, PTZ Action, Alarm Output, White LED and Trigger Channels Record.

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

www.milesight.com

or Clear All to set or clear all

time settings.

2) Click

to edit record effective time manually.

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

	Clear All			NI										
Email Linkage	Sunday	0	2	4	6	8	10	12	14	16	18	20	22	24
Event Popup	Manday													
PTZ Action	Tuesday													
Alarm Output	- Wednesday Thursday													
White LED	Friday													
Others	Saturday Holiday													
	Audibl Triggered Inte		20s	Erase	Ţ									

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 to edit effective time manually.

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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

Name Output						Actio									
Imai Leisage	Audible Warning	Clear All			_	_									
Svent Popup PtZ Action PtZ Action Mam Output Mam Output PtiteLED Software PtiteLED S Software PtiteLED S Software PtiteLED S Software PtiteLED S S S S S S S S S S S S S	Email Linkage	Suprimu		2	4	6	8	10	12	14	16	18	20	22	
Ytt Action Wednesday Nam Output Numday Nam Output Numday Akita Eliz Krday Starday Starday Starday Eroite Eroite Eroite Tiggered interval 20s	Event Popup														
Wednesday Nam Output Munday Mile LED Kolday Saturday Lebday Enail Enail Stagend strevel Stagend strevel	77 Action	Tuesday													
ANNE LED ANNE LED Schwarz Mediadov Email Email Schwarz Schw		Wednesday													
Anne ED Show of the second se	Alarm Output	-													
Dthers Holday Email Eraxe Tiggered stevel 20s ♥	White LED														
Email Eraxe Triggered interval 20s	Others														
Triggered Interval 20s					Passa	-									
			_	_	Erase										
Picture Attached Enable						-									
		Picture Attact	hed	Enable	2	•									
									_	ОК		Canc			

Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And you can set display duration time of all triggered channel in 'Settings'->'General'->'Device'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

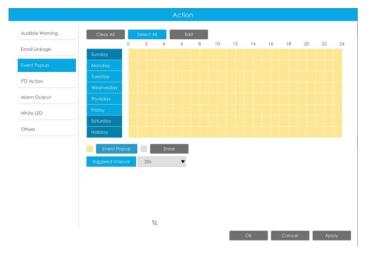
① Select the operation type, Event Popup and Erase. Then drag a square on the time table for

or Clear All to set or clear time setting. It will be more convenient by clicking all time settings.

2 Click Edit

to edit effective time manually.

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



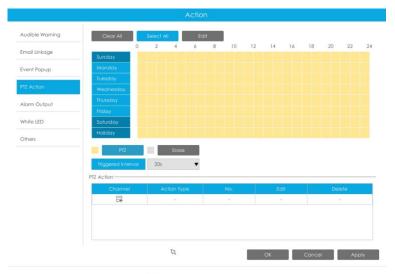
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes Preset and Patrol. User can set effective schedule as following two ways:

1 Select the operation type: PTZ or Erase. Then drag a square on the time table for time

setting. It will be more convenient by clicking to set or clear to set or or clear all time settings.

2 Click to edit record effective time manually.

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



And you can add PTZ Action by clicking 🛱 .





Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

ail Linkage	Alarm Output		Name	Edit	Delete
opup	Up.				
on		Add Alo	rm Output		
Output		Alarm Output No.	CH1_1	•	
e LED		Alarm Name	CH1_1	Ŕ	
2			CH1_2		
			CH2_1		
			CH2_2		
		ОК	CH3_1		
			CHU_2		
			CH4_1		
			CH4_2 CH5_1		
			CH5_1 CH5_2		
			CH5_2	Y	

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

1 Select the operation type, White LED 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.

5.59.030

2 Click Edit to edit effective time manually.

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

Audible Warning	Clear All	S	ielect All		Edit									
Email Linkage	Sunday	0	2 4		5	8	10	12	14	16	18	20	22	2
Event Popup	Monday													
PTZ Action	Tuesday													
	Wednesday Thursday													
Alarm Output	Friday													
White LED	Saturday													
Others	Holiday		_		_									
	White LED	- 1	_	ase										
	Triggered Intervo	al	205		•									
	White LED Channel		Flash Mo	de	F	lash Ti	me		Edit			Dele	le.	
	₿.		-			2			-			-		
			D											

And you can add White LED by clicking

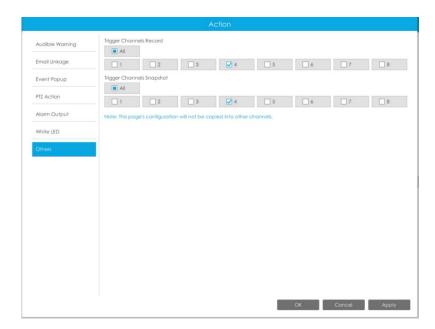
Channel	1	
Flash Mode	Twinkle	
Flash Time		3 Reset

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record when alarm is triggered.



Note:

1. The list is exclusive for NVR, working with all LPR cameras you add. It won't synchronize with the list on camera side.

2. Do not forget to enable these modes, set effective time and record action for corresponded mode, ensuring that you can get real-time video when license plate is detected (Effective time and record action is enabled by default.)

3.5.2.2 People Counting

People Counting Settings

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

☆.	Smart Analysis			CPU 1% Memory 27%
		People Counting		
Analysis Search	People Counting Settings Occupancy Live View Settin	ngs		
Analysis Settings		9 10 11	4 5 12 13	6 7 8 14 15 16
ANPR				
People Counting				
Heat Map	Channel: 1 Nome: CAM1			
	O Minimum Sze(1x1~320x240) 3 X 3	People Counting		
	O Maximum Size(1x1-320x240) 320 X 240	Show Counting OSD		
		Text Position	Top-Left	•
		Draw Line	Draw Clear	
		Object Size Limits	Edit Reset	
		Clear Count	Clear	
Live View				Apply Back
ton 1 Salact c	hannel and enable People Co	unting		





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

Besides,	you can clear count b	Clear .	
	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.
- Crossing along the direction of the arrow will be recorded as "In", opposite "Out". 2.

Step 3. Draw detection line.

B

Channel: 1 Name: CAM1

Step 4. Set Minimum Size and Maximum Size.

O Minimum Size(1x1~320x240)	3	x	3
O Maximum Size(1x1~320x240)	320	x	240

Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for People Counting will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for People Counting will take effect.

Occupancy Live View Settings

You can configure information about Occupancy Live View on the page.

<u>م</u> .	Smart Analysis	🛃 C/U 1%. Memory 🚺 27%.
		People Counting
Analysis Search	People Counting Settings	Occupancy Live View Settings
	Group Settings	Edit
Analysis Settings 🔻	Group	1
	Group Name	Group1
ANPR	People Counting	Disable
People Counting	Max. Stays	99999 🔹 1-99999
	Reminders of Green Light	Welcomett
Heat Map	Reminders of Red Light	Please wait fill the green light tum on.
	Font Size	Medlum
	Live View Counting Reset	Reset 0
	Live View Counting Auto Reset	Diable
	Day	Everyday.
	Time	00:00:00
	NVR Counting Reset	Reset O
	Alarm Action	Edit
Live View		Apply Back

Note:

Make sure your camera's version is 4X.7.0.77 or above.

Step 1. Set Group.

Group Settings: Click Edit to pop up the Group Settings interface. Then you can click

to add Group in the interface, and edit the Group Name and select the Channels to join the

Group in the Add Group interface. You can add up to 9 Groups.

	Add Group
Group No.	3
Group Name	Group3
Channel	All
	V 1 V 2 V 3 V 4 V 5 V 6 V 7 V 8
	R
	OK Cancel
Step 2. Select a Group fro	m the added Groups.
Group	
Group Name: The corres	ponding Group Name will be automatically obtained according to the
Group No. you choose. Yo	ou can modify the Group Name by clicking 🧾 on the corresponding
Group in the Group Settin	gs interface.
	unting for the selected Group.
People Counting Enable	-

Step 4. Set the relevant parameters of People Counting.

Max. Stays: Set the maximum number of people staying from 1 to 99999, the default value is 99999.

Reminders of Green Light: Set the prompt when Green Light is on in the Occupancy Live View interface, up to 45 characters. The default prompt is "Welcome!!!".

Reminders of Red Light: Set the prompt when Red Light is on in the Occupancy Live View interface, up to 45 characters. The default prompt is "Please wait till the green light turn on.".

Font Size: Select the font size of the prompt. There are three options: Small, Medium and Large. **Live View Counting Reset:** Reset the Group counting data in the Occupancy Live View interface. **Live View Counting Auto Reset/Day/Time:** The Group counting data is automatically reset at the set time when Live View Counting Auto Reset is enabled.

Live View Counting Auto Reset	Enable	•
Day	Everyday	•
Time	00:00:00	\$

NVR Counting Reset: Reset the Group counting data stored in NVR side, and also reset the Group counting data in the Occupancy Live View interface.

Alarm Action: Alarm is triggered when the number of people staying in the current group reaches the set maximum number of people staying. You can set alarm action including Audible Warning, Email Linkage, PTZ Action, Alarm Output and White LED.

Audible Warning: NVR will trigger an audible beep.

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

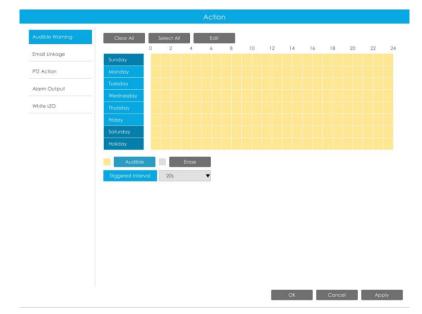
setting. It will be more convenient by clicking Select All or Clear All to set or clear all

time settings.

(2) Click

to edit record effective time manually.

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



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



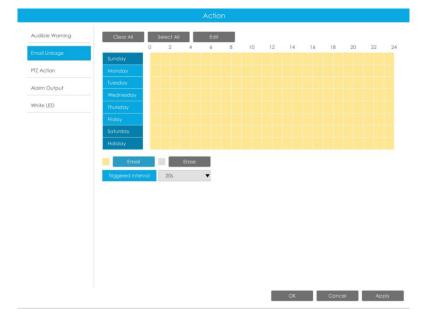
The user can set effective schedule as following two ways:

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 to edit effective time manually.

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



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: PTZ 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.

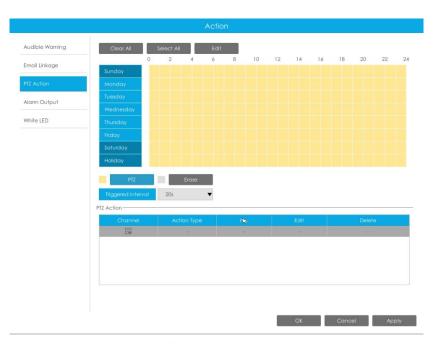
Edit

(2) Click

to edit record effective time manually.

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





And you can add PTZ Action by clicking \Box .

Channel	1	•
Action Type	Preset	•
No.	1	

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. **Triggered Interval:** The effective interval between two actions when event triggered.



		Action			
Audible Warning	Trigger Alarm Output				
Provide Land	Alarm Output No.	Alarm Name		Edit	Delete
Email Linkage	67				
PTZ Action					
Alarm Output					
White LED	A	dd Alarm Output			
	Alarm Output No.	1			
	Alarm Name	1 A			
		CH1_1			
		CH1_2 CH2_1			
		CH2_1 CH2_2			
		CH3_1			
		CH3_2			
		CH4_1			
		CH4_2	_		
		CH5_1			
			_		
	Triggered Interval 20s	•			
		OK		Cancel	Apply

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

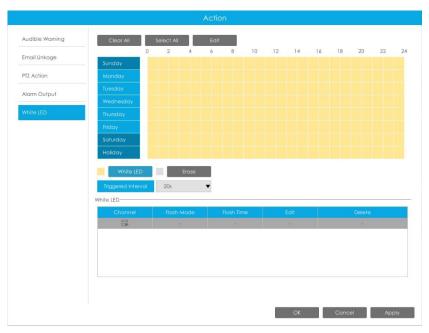
① Select the operation type, White LED and Erase. Then drag a square on the time table for

time setting. It will be more convenient by clicking Select All or Clear All to set or clear

all time settings.

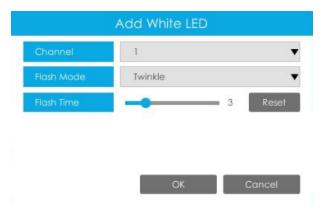
(2) Click Edit to edit effective time manually.

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



And you can add White LED by clicking





Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

3.5.2.3 Heat Map

Milesight NVRs support the configuration of the Heat Map function of Milesight cameras on NVR directly and you can search and export the results of Heat Map in Smart Analysis.

谷 .	Smart Analysis						CPU 3% Memory 26%			
•••			Heat	Мар						
Analysis Search	8	1	2	3	4	5	6	7	8	
		9	10	11	12	13	14	15	16	
Analysis Settings	Min, Object Stree	17 25	18	19 27	20 28	21	22 30	23	24 32	
ANPR		33	34	35	20 36	37	38	39	40	
		41	42	43	44	45	46	47	48	
People Counting		49	50	51	52	53	54	55	56	
	Channel: 5 Name: CAMS	57	58	59	60	61	62	63	64	
	Sandar Harris Contra	1								
		Heat Map			🗹 Enable					
		Sensitivity Min. Object Si							5	
		Min. Dwell Tim			30				1-3001	
			e Adaptability	_					5	
		Heat Map Re	gian		Set All	Clear All				
		Please configure	Heat Map sched	tule on camera si	de.	1				
Live View						1	Сору	Apply	Back	

Sensitivity: Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier the moving subjects to be recorded in the result.

Min. Object Size: Set the minimum object size from 1 to 100, the default value is 10. Objects smaller than this value will not be recorded in the result.

Min. Dwell Time: Set the minimum dwell time from 1 to 300, the default value is 30. If the object stays in the area longer than the set "Minimum Dwell Time", it will not be recorded in the result.

Scene Change Adaptability: Level 1~10 are available, the default level is 5. Scene Change Adaptability indicates the camera's adaptability to scene changes, which can increase the accuracy of detection. The camera adapts better to faster changing scenes if the value is higher.

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

Note:

- 1. Ensure that your camera's version is 4X.7.0.74 or above.
- 2. Please configure Heat Map schedule on camera side.
- 3. The Heat Map function only works on the following cameras:

Fisheye: Ensure that the dewarping mode is 10 and the dewarping rule is On-board Dewarping. Panoramic Mini Bullet: Ensure to turn on the Lens Distort Correct function.

3.6 Camera

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.

谷 .		Came	era Setting	IS								上 СРИ	1% Memory 2	
						1	Camera Managemer	d –	Batch Settin	ngs				
							Channel			6				
Device Search							Channel Name			CAM	A6			
							Protocol			ONV	ηF			
PTZ Configuration							IP Address							
Fiz Conliguration							Port			80				
					Transport Protocol			Auto	Auto					
Image							User Name			adn	admin			
			Channel: 1	Name: CA	141	_	Password							
			Channel, 1 1	NOME. CA	MU.		Time Setting				ync Time With NVR			
												7	est Add	
													Hud	
		Channel	Channel Name	Edit	Delete	Status	P Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model	
Camera Maintenance		1	CAMI	Ø	B	0	192.168.14.102	1	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB	
		2	CAM2	Ľ	面	0	192.168.14.103		8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB	
		3	CAM3	Ľ	面	0	192.168.14.104		8084	ONVIE	1CC316238D13	40.7.0.78	MS-C2942-B	
		4	CAM4 CAM5	ß	盲	0	192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB	
		5			盲	0	192.168.7.234		80	ONVIE	1CC316287C75	45.7.0.78	MS-C2864-RFPC	

3.6.1 Camera Management

Step 1. Add camera.

Method 1. Add camera through Device Search interface. 'Camera' \rightarrow 'Device Search'.

ñ.												
Camera Management	Prote	col	AI		▼So	lect NC	All		🛡 🖻 Rang	0. 0. 0. 0	- 255.255.255	255 Secr
		No.	IP Address	IP Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
		1	192.168.32.2	ß	Active	80	MSSP	LAN	1CC3162166FA	41.7.0.77-a3	MS-C4463-PB	Milesight
		2	192.168.20.3	ß	Active	80	MSSP	LAN	1CC316263374	41.7.0.73-r7	MS-C5373-PB	Milesight
		3	192.168.20.4	ø	Active	80	MSSP	LAN	1CC31621A468	41.7.0.70	MS-C2962-FIPB	Milesight
17Z Configuration		4	192.168.32.5	ß	Active	80	MSSP	LAN	1CC3162166F3	41.7.0.76-r3	MS-C4463-PB	Milesight
		5	192.168.32.6	Ľ	Active	80	MSSP	LAN	1CC316216707	41.7.0.77-vca-tcp	MS-C4463-PB	Milesight
		6	192.168.32.7	ß	Active	80	MSSP	LAN	1CC31621670A	41.7.0.76	MS-C4463-P8	Milesight
		7	192.168.32.8	Ľ	Active	80	MSSP	LAN	1CC316216703	41.7.0.76	MS-C4463-PB	Milesight
		8	192.168.32.9	ß	Active	80	MSSP	LAN	1CC3162166F2	41.7.1.76	OEM-C3762	IPCAM
udio		9	192.168.32.10	Ľ	Active	80	MSSP	LAN	1CC31621658C	41.7.0.77-ci2	MS-C4463-PB	Milesight
ludio		10	192,168.31.11	Ø	Active	80	MSSP	LAN	1CC31621657D	41.7.0.70	MS-C4463-P8	Milesight
		11	192.168.32.11	Ľ	Active	80	MSSP	LAN	1CC316216619	41.7.0.76	MS-C4463-PB	Milesight
dvanced		12	192.168.31.12	Ø	Active	80	MSSP	LAN	1CC3162106CF	40.7.0.70	MS-C2963-P8	Milesight
		13	192.168.32.12	Ľ	Active	80	MSSP	LAN	1CC31621671E	41.7.0.76	MS-C4463-PB	Milesight
		14	192.168.10.13	ß	Active	80	MSSP	LAN	1CC3161228A3	31.7.0.75-a7	MS-C2941-X30TPA	Milesight
Camera Maintenance		15	192.168.31.13	Ľ	Active	80	MSSP	LAN	1CC316210565	40.7.0.70	MS-C2963-PB	Milesight
		16	192.168.32.13	Ø	Active	80	MSSP	LAN	1CC31621670B	41.7.0.76	MS-C4463-P8	Milesight
		17	192.168.32.14	Ø	Active	80	MSSP	LAN	1CC316216705	41.7,0.76	MS-C4463-PB	Milesight
	*	18	192.168.31.15	Ø	Active	80	MSSP	LAN	1CC316210725	40.7.0.70	MS-C2963-PB	Milesight
		19	192.168.32.15	ß	Active	80	MSSP	LAN	1CC316216706	41.7.0.76	MS-C4463-PB	Milesight
		20	192.168.10.16	Ø	Active	80	MSSP	LAN	1CC3161228F7	31.7.0.75	MS-C8241-X36PA	Milesight
		21	192,168.31.16	Ľ	Active	80	MSSP	LAN	1CC3162106F0	40.7.0.70	MS-C2963-P8	Milesight
		22	192.168.32.16	R	Active	80	MSSP	LAN	1CC316216704	41.7.0.76	MS-C4463-P8	Milesight
		23	192.168.10.17	ß	Active	80	MSSP	LAN	1CC3161129C8	31.7.0.75	MS-C8164-FIPA	Milesight
		24	192.168.31.17	Ø	Active	80	MSSP	LAN	1CC3162165AC	41.7.0.71	MS-C4463-PB	Milesight
		25	192.168.32.17	ß	Active	80	MSSP	LAN	1CC316216709	41.7.0.76	MS-C4463-PB	Milesight
		26	192.168.31.18	R	Active	80	MSSP	LAN	1CC316210558	40.7.0.70	MS-C2963-PB	Milesight

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

2	Click	Searc
<u> </u>	Chick	

Protocol All

Milesight

button to search cameras at the same LAN with NVR.

Select NIC All IP Range 0 .0 .0 .0 .0 - 255.255.255

Proto	col	All		▼ Sel	lect NIC	All		V IP Rang	ge 0 .0 .0 .0	255.255.255.	255 Searc
	No.	IP Address	IP Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
	1	192.168.32.2	Ø	Active	80	MSSP	LAN	1CC3162166FA	41.7.0.77-a3	MS-C4463-PB	Milesight
	2	192.168.20.3	Ø	Active	80	MSSP	LAN	1CC316263374	41.7.0.73-r7	MS-C5373-PB	Milesight
	3	192.168.20.4	ø	Active	80	MSSP	LAN	1CC31621A468	41.7.0.70	MS-C2962-FIPB	Milesight
	4	192.168.32.5	Ľ	Active	80	MSSP	LAN	1CC3162166F3	41.7.0.76-r3	MS-C4463-PB	Milesight
	5	192.168.32.6	Ľ	Active	80	MSSP	LAN	1CC316216707	41.7.0.77-vca-tcp	MS-C4463-PB	Milesight
	6	192.168.32.7	Ø	Active	80	MSSP	LAN	1CC31621670A	41.7.0.76	MS-C4463-PB	Milesight
	7	192.168.32.8	ß	Active	80	MSSP	LAN	1CC316216703	41.7.0.76	MS-C4463-PB	Milesight
	8	192.168.32.9	Ø	Active	80	MSSP	LAN	1CC3162166F2	41.7.1.76	OEM-C3762	IPCAM
	9	192.168.32.10	ø	Active	80	MSSP	LAN	1CC31621658C	41.7.0.77-a2	MS-C4463-PB	Milesight
	10	192.168.31.11	Ø	Active	80	MSSP	LAN	1CC31621657D	41.7.0.70	MS-C4463-PB	Milesight
	11	192.168.32.11	ß	Active	80	MSSP	LAN	1CC316216619	41.7.0.76	MS-C4463-PB	Milesight
	12	192.168.31.12	Ø	Active	80	MSSP	LAN	1CC3162106CF	40.7.0.70	MS-C2963-PB	Milesight
	13	192.168.32.12	Ľ	Active	80	MSSP	LAN	1CC31621671E	41.7.0.76	MS-C4463-PB	Milesight

3. Select one channel, click

button, input password and click

button to

Search

finish.





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

choose TCP, UDP or Auto transport protocol for it. Click OK to finish batch adding.

MSSP: You can search out all Milesight cameras which have different network segment in the LAN.

			Batch Add	
User Name		a	dmin	
Password		•	******	
Transport Protocol		A	uto	•
IP Address	MAC		Result	
192.168.14.102	1CC3162109	91		-
192.168.14.105	1CC316220D	BD		
			ОК	Cancel

Method 2. Add camera through camera management interface. 'Camera' \rightarrow 'Camera Management'.

*	Ca	mera Setting	gs		👤 сри	Memory 27						
•••		Camera Management										
Camera Management	0				1	Camera Managemer	nt -	Batch Setti	ngs			
						Channel			6			
Device Search						Channel Name			CAM	46		
						Protocol			ONV	IF		
						IP Address						
PTZ Configuration						Port			80			
						Transport Protocol			Auto			
						User Name			adn			
									Gun	WT1		
Audio		Channel: 1	Name: C/	AM1		Password			-			
						Time Setting			S	ync Time With NVR		
Advanced											Te	est Add
	Cho	nnel Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
Camera Maintenance		CAMI	Ø	I	0	192.168.14.102		8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
		2 CAM2	Ľ	窗	0	192.168.14.103		8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
		CAM3	Ľ	窗	0	192.168.14.104		8084	ONVIE	1CC316238D13	40.7.0.78	MS-C2942-B
		CAM4	ß	Û	0	192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
		5 CAM5	Ľ	Û	0	192.168.7.234		80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFPC

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	4
Channel Name	CAM4
Protocol	ONVIF
IP Address	192.168.7.223
Port	80
Transport Protocol	UDP
User Name	admin
Password	*****
Time Setting	Sync Time With NVR

• **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". The length of RTSP can be up to 128 bits.

Channel	4
Channel Name	CAM4
Protocol	RTSP
Primary	rtsp://192.168.7.223/main
Secondary	rtsp://192.168.7.223/sub
Transport Protocol	UDP 🗸
User Name	admin
Password	******
Time Setting	Sync Time With NVR
	Test Add

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

Channel	4
Channel Name	CAM4
Protocol	MSSP
IP Address	192.168.7.223
Port	80
Transport Protocol	UDP V
User Name	admin
Password	*****
Time Setting	Sync Time With NVR
	Test Add

You can add offline cameras to Milesight NVRs by method2. As long as the device information you fill in is correct, NVR will determine whether the device is connected and update the camera status automatically.

Note:

1. When adding a fisheye camera in Multi-Stream Mode, NVR would distinguish all of its channels as independent channels for adding, which depends on its Display Mode. For Example, if a Fisheye camera's Display Mode is 1O3R, there would be 4 Channels to be added. The original view gets Channel ID as 1, and the first region view gets Channel ID as 2, and so on. Thus you can select the ID to add as your demand.



Channel ID				
Ali	_			
⊻ 1	2	☑ 3	⊻ 4	

2. Only Fisheye camera has Channel ID.

1j	CAM1	ß	Ū	0	192.168.14.102		8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
2	CAM2	ß	Û	0	192.168.14.103		8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
3	CAM3	Ľ	Ū	0	192.168.14.104		8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2942-B
4	CAM4	ß	Û	0	192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
5	CAM5	ø	面	0	192.168.7.234	10000	80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFPC

Step 2. Check the connection status.

After adding the IP channels, click

button on Camera Management interface,

then 🥝 appears under Status.

I.	CAMI	ß	窗	0	192.168.14.102		8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
2	CAM2	ß	盲	0	192.168.14.103		8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
3	CAM3	ø	盲	0	192.168.14.104		8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2942-B
4	CAM4	Ľ	Û	0	192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
5	CAM5	ß	面	0	192.168.7.234		80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFPC

If it shows the icon, users can move the mouse to the corresponding icon in the status bar to check the reason for the disconnection.



Step 3. Configure camera. Configure one camera

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

Settings	Parameters	
Channel		1
Channel Name		CAMI
Protocol		ONV#
P Address		192.168.9 .189
Port		80
fransport Protocol		UDP
User Name		odmin
Password		*******
lime Setting		Sync Time With NVR

Go to Parameters page to re-edit parameters of this channel, select the Record Stream Type as

General or Event to set different parameters separately. It is recommended to set lower parameters for General Stream to save certain storage. Click [OK] to save after your configuration.

Primary Stream		Secondary Stream	
Record Stream Type	General	Secondary Stream	Enable
Video Codec	General	Video Codec	H.264
Frame Size	Event	Frame Size	640*480
Max Frame Rate	20	Max Frame Rate	25
Bit Rate	8192	Bit Rate	512
Bitrate Control	CBR	Bitrate Control	CBR
I-frame Interval	40	- I-frame Interval	50
Smart Stream	Off	Smart Stream	Off
Audio	Enoble		

Note:

• Milesight

1. Event Record Stream Configuration includes Events like Motion Detection, VCA, Camera Alarm Input and Smart Analysis.

2. For Fisheye camera, you can change its Transfer Mode, Installation Mode, Display Mode and Channel ID through Camera Edit Settings interface.

Settings Parame	ters	
Channel	4	•
Channel Name	CAM4	
Protocol	MSSP	•
IP Address	192.168.20.19	
Port	4	
Transport Protocol	UDP	•
Transfer Mode	Multi-Channel Mode	~
On-board Installation Mode	Ceiling	~
On-board Display Mode	1P1O3R	~
Channel ID	1	~
User Name	admin	
Password	•••••	
Time Setting	Sync Time With NVR	

3. Make sure your camera's firmware version is 4X7.0.75 or above.

Batch configuring camera

Click

, select multiple channels and set parameters of cameras.

	Camera Management											
	-					Camera Managemen	_	Batch Setti	195	-		Enable
						Transport Protocol		Auto		Secondary S		L] Enoble
						Video Codec				Video Code	c	
						Frame Sze				▼ Frame Size		
2 Configuration						Max Frame Rate				T Max Frame	Rate	
						Bit Rate				▼ Bit Rate		
						Bitrate Control				Bitrate Cont	rof .	
lage												
						Likeme to tanial				·	vel.	
						Hrame Interval				Frame Inter		Direct Terrs Mills AD/R
udio		Channel: 1	Name: CA	MI		Hrame Interval				 I-trame inter Time Setting 		Sync Time With NVR
	Cherry				Stotus		Channel ID	Port	Protocol	Time Setting		Apply
	Chara		Name: CA	M1 Delete	Status Status	Pradess 192,148,14,102	Channel ID	Port 8081	Ptofocol			
		el Channel Name	Edit	Delete		P Address				Time Setting	Firmware Version	Apply Model
		el Channel Nome CAM1	Edit	Delete	0	IP Address 192,168.14.102		8081	ONVIF	Time Setting MAC 1CC316210991	Eirmware Venion 40.7.0.78	Apply Model MS-C2962 FPB
		Channel Name CAM1 CAM2	Eoit M	Dolete	0	P Address 192,148,14,102 192,168,14,103	4 	8081 8083	ONVIF ONVIF	MAC 1CC316210991 1CC316219804	Firmware Venion 40.7.0.78 40.7.0.78	Apply Model MS-C2962 FPB MS-C2961-EB

Step 4. Delete camera.

📀 Milesight

You can delete this channel by clicking $\begin{array}{c} 1 \end{array}$, or you can select multiple devices and then click

to delete.

~	1	CAM1	ď	Î	0	192.168.14.102		8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
	2	CAM2	Ø	Ŵ	0	192.168.14.103		8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
	3	CAM3	ď	Ŵ	0	192.168.14.104	2	8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2942-B
	4	CAM4	Ľ	Û	0	192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
	5	CAM5	ø	Û	0	192.168.7.234	-	80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFPC
										~		

Step 5. 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.Next time, NVR will use the password you input to authenticate this camera when you re-plug it.

Note:

1. When NVR detects the inactive camera connected via PoE port, the camera will synchronize the password of NVR, and then camera will be successfully connected. For Fisheye camera in Multi-stream Mode, it would add all channels by default.

- 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 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.

User Name	admin
Password	

3.6.2 Device Search

Select Protocol and NIC, then set the IP range, and click Search to quickly search the IP

devices that support selected protocol and NIC at the same LAN with NVR.

								Device Sear	ch		
Ptoto	col	All		▼ 50	ect NC	Ali		₹ PRo	192.168.7 .96	- 255.255.255.	255 Seorce
	No.	IP Address	P Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
	1	192.168.7.100	ø	Active	80	MSSP	LAN	1CC3162000EF	41.7.0.72-05	MS-C2862-FP8	Milesight
	2	192.168.7.104	Ø	Active	80	MSSP	LAN	1CC316210022	40.7.0.69-r11	MS-C2962-FIPB	Milesight
	3	192.168.7.114	ß	Active	80	MSSP	LAN	1CC3162409D2	40.7.0.72	MS-C2964-FP8	Milesight
	- 4	192.168.7.124	ß	Active	80	MSSP	LAN	1CC316230139	41.7.0.72-06	MS-C2962-FP8	Milesight
	5	192.168.7.201	Ľ	Active	80	MSSP	LAN	1CC31622196F	43.7.0.72-fih-autotrack-a2	MS-C9674-PB	Milesight
	6	192.168.7.202	ß	Active	4200	MSSP	LAN	1CC316220108	42.7.0.67-11	MS-C9674-PB	Milesight
	7	192.168.7.212	Ľ	Active	80	MSSP	LAN	1CC316210110	40.7.0.71-(15	MS-C2972-FPB	Milesight
	8	192.168.7.214	ß	Active	80	MSSP	LAN	1CC3162132FD	40.7.0.71-r15	MS-C2973-PB	Milesight
	9	192.168.7.215	Ľ	Active	80	MSSP	LAN	1CC316212E80	41.7.0.71-r15	MS-C3762-FP8	Milesight
	10	192.168.7.216	ß	Active	80	MSSP	LAN	1CC3162306CD	40.7.0.71-r15	MS-C2961-EP8	Milesight
	- 11	192.168.7.223	Ľ	Active	.80	MSSP	LAN	1CC31621C584	41.7.0.72-010	MS-C4461-E8	Milesight
	12	192.168.7.224	Ø	Active	80	MSSP	LAN	1CC316201043	43.7.0.72-LPR2	MS-CB262-FILPB	Milesight
	13	192.168.7.226	Ľ	Active	80	MSSP	LAN	1CC316239791	40.7.0.72-03	MS-C2961-REPB	Milesight
	14	192.168.7.240	Ø	Active	80	MSSP	LAN	1CC316219CB4	40.7.0.72	MS-C2963-PB	Milesight

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

to activate it

Besides, you can select channels and click

IP Edit

to **batch editing** their IP information.

For Fisheye camera in Multi-stream Mode, it would add all channels by default when batch editing the IP information.



	1CC31622010B
Protocol	MSSP
P Address	192.168.7 .202
Subnet Mask	255.255.240.0
Gateway	192.168.7 .2
DNS	8.8.8
Port	4200
User Name	admin
Password	

3.6.3 PTZ Configuration

Configuration

[Preset]

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

Step 1. Use the PTZ direction key to rotate the position of preset. Then choose a preset number

<u>۴.</u>	Camera Settings			<u>+</u>	CPU 2% Memory	23%
Camera Management	Configuration PTZ Privacy Mask Auto T	racking Advanced				
Desides Pressel		Channel 3				•
Device Search		Preset	- 1944 - 194	Access to	Ĩ.	
		Preset No. Preset 1	Play	Save M	Delete	-â
PTZ Configuration		Preset 2		8		-81
		Preset 3		8		-18
Image		Preset 4		8		
		Preset 5		B		
		Preset 6		B		
Audio	Channel: 3 Name: CAM3	Preset 7		8		
		Preset 8		8		v
Advanced	F 🔺 🤻	Patrol				
	4 63 1	Path 1				•
Camera Maintenance		Key Paint Preset	Scan Speed	Scan Time E	dit Delete	
	N V 4					
	S 5					
	3					
	- * +	+ + +				
	+	Pottern				
		Pattern 1				
	- 0 +					1 100
10 COR						,,
Live View						Back
on 2 Chaosa a ma	eset number and click 📲	📕 to delete th	o procot -	ocition		
ep 2. Choose a pre	eset number and click	to delete th	e preset p	osition.		

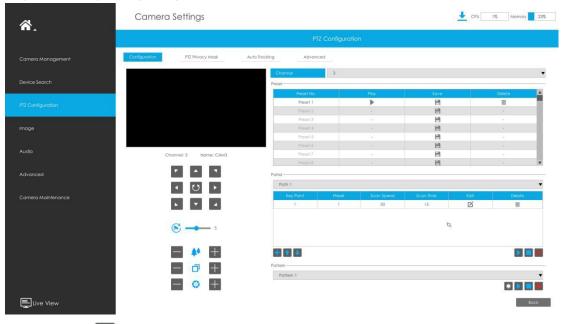
and click 🗎 to save a preset position.

Step 3. 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.



Step 1. Select a path. Up to 8 paths could be set.

Step 2. Click 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	OK .				
ጽ.	Camera Settings			CPU	2% Memory 23%
		PTZ Configur	ation		
Camera Management	Configuration PTZ Privacy Mask A	Advanced			
Device Search		Channel 3 Preset			•
PTZ Configuration		Preset No. Preset 1 Preset 2	Play	Save Contraction Contraction	Delete
Image		Preset3 Add Key Point		8	
Audio	Key Poin Proset Po			8	3
Advanced	Channel: 3 Name: CA	eed 30		8	
		OK Cancel	Scon Speed	Scan Time Edit	Dalete
Camera Maintenance		1 1	30	15 Edit	
	5				
	- * +	+ • •			
		R Pattern Pattern 1			÷
Live View	- 0 +				Bock
					BGCK
Step 3. Click 🔳	to delete the preset po	sition.			
Step 4. Click D	to preview the path pat	rol. Click 🔲 to	stop.		



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.

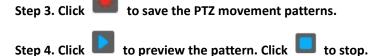
[Pattern]

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

Camera Settings Level 4% Memory 23% ∕₩. PTZ Privacy Mask Auto Tracking Advanced H P el: 3 7 4 1 1 0 Þ 4 ++ • • +D. Pottern 0 + ----Live View

Step 1. Select a pattern and click Up to 4 patterns could be set.

Step 2. Drag the mouse or click 8 direction keys by mouse to rotate PTZ.



[PTZ Operation]

•		•
•	U	►
	•	4
		4
-		
—	đ	+

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

PTZ Privacy Mask

Milesight NVR supports setting privacy mask for PTZ camera. Different from the general Privacy Mask, it is featured with a 3D coordinate system to protect object's privacy and keep the specified area masked through manual operations from monitoring no matter how cameras pan/tilt/zoom.

* .	Camera Se	ettings					↓ c	PU 4% N	Aemory 23
				PTZ Configurat	ion				
Camera Management	Configuration	PTZ Privacy Mask	Auto Tracking	Advanced					
			1	2	3 4	5	6	7	8
Device Search			9	10	11 12	13	14	15	16
			17	18	19 20	21	22	23	24
12 Configuration			25	26	27 28	29	30	31	32
			33	34	35 36	37	38	39	40
lage			.41	42	43 44	45	46	47	48
			49	50	51 52	53	54	55	56
Nudio	Channe	el: 3 Name: CAM3	57	58	59 60	61	62	63	64
Advanced		Preset	PTZ Privacy Mo	ask	Enable				
	< U >	001 Preset 1	Region		Add	Clear	Clear All		
		002 Preset 2					ctive Zoom Ratio	Edit	
amera Maintenance		003 Present 3	D.						
amera Maintenance		003 Preset 3 004 Preset 4	1	PTZ Privacy Mask 1	White		1	Ø	面
amera Maintenance			1	PTZ Privacy Mask 1 PTZ Privacy Mask 2	White White		1	e e	11 11
amera Maintenance		004 Preset 4 005 Preset 5 006 Preset 6	1 2 4	PTZ Privacy Mask 1 PTZ Privacy Mask 2 PTZ Privacy Mask 4	White White White	y y	1	e e e	0 0 0
amera Maintenance		004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7	1	PTZ Privacy Mask 1 PTZ Privacy Mask 2	White White	N N N	1	S S S	10 10 10 10
amera Mointenance	S 5	DO4 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8	1 2 4 5	PTZ Privacy Mask 1 PTZ Privacy Mask 2 PTZ Privacy Mask 4 PTZ Privacy Mask 5	White White White White	y y	1	e e e	団 団 団
amera Maintenance	S s	004 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7	1 2 4 5	PTZ Privacy Mask 1 PTZ Privacy Mask 2 PTZ Privacy Mask 4 PTZ Privacy Mask 5	White White White White	N N N	1	S S S	団 団 団
Camera Maintenance	S 5	DD4 Preset 4 005 Preset 5 006 Preset 6 007 Preset 7 008 Preset 8 009 Preset 9	1 2 4 5	PTZ Privacy Mask 1 PTZ Privacy Mask 2 PTZ Privacy Mask 4 PTZ Privacy Mask 5	White White White White	N N N	1	S S S	団 団 団
Camera Maintenance	S s	DD4 Preset 4 D05 Preset 5 D06 Preset 6 D07 Preset 7 D08 Preset 8 D09 Preset 9 D10 Preset 10	1 2 4 5 6	PTZ Privacy Mask 1 PTZ Privacy Mask 2 PTZ Privacy Mask 4 PTZ Privacy Mask 5	White White White White	N N N	1	S S S	団 団 団

You can add a privacy mask by following steps:

Step 1. Select channel and enable Privacy Mask.

Step 2. Drag the mouse to select the area which needs to be protected on the live view window

and click does not and save the selected areas. You can add 8 areas at most and each zone can be

enabled and disabled.

Step 3. Click is to edit PTZ Privacy Mask Name, the Privacy Mask Type and Active Zoom Ratio.

ጽ.	Came	ra Settings						, ż	CPU 1%	Memory 23%
					PTZ Configure	ation				
Camera Management	Configuration	PTZ Privacy, Mask	Auto Track	ling	sdvanced					
Device Search		••		1	2	3	4	5	6 7 4 15	8
		• •		17	10	19	20		4 15 2 23	24
PTZ Configuration		• • •		25	26	27	28		0 31	32
				33	34	35	36	37 3	8 39	40
Image			PTZ Pr	ivacy Mask E	lit	43	44		6 47	48
Audio			Name	PTZ Priva	cy Mask 1	51	52 60	53 5	4 55 2 63	56
Advanced Camera Maintenance	・ ・ い	Olim Prese 001 Preset 1 002 Preset 2		OK D	Cancel	Type	11.11.11.11.1	lear Clear		Delete
Camera Maintenance	N	003 Preset 3		1	PTZ Privacy Mask 1	White		1	Ľ	
		005 Preset 5		2	PTZ Privacy Mask 2	White		1	Ø	11 The second se
	S	5 006 Preset 6 007 Preset 7		4	PTZ Privacy Mask 4 PTZ Privacy Mask 5	White		1	ß	宜
		008 Present 8		6	PTZ Privacy Mask 6	White		1	ß	Ш
	—	+ 009 Preset 9								
	- 0	010 Preset 10 011 Preset 11								
	- 0	012 Preset 12 013 Preset 13		Note: Support up	to 8 Privacy Mask area	15.				
_		UI3 Preserva								
									Apply	Back
Step 4. Select "	Apply	" to save th	he setti	ings.						

Note:

- 1. Ensure that your camera's version is 4X.7.0.73 or above.
- 2. There are two interfaces for Privacy Mask configuration. PTZ Privacy Mask is only applied in PTZ cameras while Privacy Mask can also be applied in other cameras.

Auto tracking

PTZ camera series supports to track the moving objects automatically after you configure this function.

* .	Camera	Settings					▲ СРІ	I 1% M	emory 27%
			PI	Z Configuration					
Camera Management	Configuration	PTZ Privacy Mask	Io fracking Advan	bed					
			1	2 3 10 11	4	5	6 14	7	8
P12 Configuration									
	Cha	nnel: 2 Name: CAM2	-						
Advanced		Preset	Auto Tracking		C Enable				
	< () >	010' Preset 10 011 Preset 11	Show Tracking		Enable				
		012 Preset 12	Set Region Sensitivity		Set All	Clear All			
		013 Proset 13 014 Preset 14	Max. Tracking Time		300				5-300s
	6.	015 Propot 15	Tracking Zoom Ratio		Customize				•
	0	016 Preset 16 017 Preset 17	Tracking Zoom Ratio S	ettings	Set				
	🗖 🍂 🗄	018 Presot 18	Auto Tracking Schedu	ie)	Edit				
	+	020 Preset 20	Please set the tracking z	com ratio by adjusting th	e zoom button.				
	- 0 +	021 Preset 21 022 Preset 22							
Live View							Сору	Apply	Bock

Step1. Check the checkbox to enable Auto Tracking.

Step2. Enable "Show Tracking" to show tracking in Auto Tracking function.

Step3. Set detection region.

Step4. Set detecting sensitivity.

Step5. Set Max. Tracking Time which must be between 5~300s. The camera will stop tracking when the tracking time is used up.

Step6. Select Tracking Zoom Ratio, which includes Auto Mode and Customize.

• Tracking Zoom Ratio is used to adjust the zoom ratio of the moving object when using Auto Tracking. PTZ would adjust the zoom ratio automatically according to the distance and speed of moving object under Auto Mode. If select Customize, PTZ would adjust to the zoom ratio you set before when tracking the target.

• How to set Customize Tracking Zoom Ratio:

1) Set zoom ratio by button.											
② Click Set	② Click to save your configuration.										
* .	Camera Settings										
Camera Management	Configuration	PTZ Privacy Mask	Auto Tracking Advanced								
Device Search			1 2 9 10	3 4 5 11 12 13	6 7 8 14 15 16						
PTZ Configuration											
Image											
Audio	C	annel: 2 Name: CAM2									
Advanced	 ▲ ↓ ↓	Preset 010 Preset 10 011 Preset 11	Auto Tracking Show Tracking	Enable Enable							
Camera Maintenance	• •	 011 Preset 11 012 Preset 12 013 Preset 13 	Set Region Sensitivity	Set All Clear All	7						
	C	014 Preset 14 015 Preset 15	Max. Tracking Time Tracking Zoom Ratio	300 Customize	5-300						
		016 Preset 16	Tracking Zoom Ratio Settings	Set	•						
		018 Preset 18	Auto Tracking Schedule	Edit							
	- 0	019 Preset 19 020 Preset 20 021 Preset 21	Please set the tracking zoom ratio by adju	sling the zoom button.							
	- 0	022 Preset 22									
Live View					Copy Apply Back						

Step5. Click	to edit Auto Tracking Schedule which will be synchronized to IP Camera.
--------------	---

Step6. Click to apply configurations.

Note:

Ensure that your camera's version is 4X.7.0.75 or above.

Advanced

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

谷 .	Camera Sett	ings	CPU 3% Memory 23%
		PTZ Config	guration
Camera Management	Configuration P	Z Privacy Mask Auto Tracking Advanced	
	Channel	1	Ť
Device Search	Connection Type	ONVIF	
PTZ Configuration	Baud Rate Data Bit		*
Fiz Coniguration	Stop Bit	1	
Image	Checksum Bit	None	•
	Profocol	PELCO-D	*
	Address	2	-
Camera Maintenance			
			ß
Live View			Copy Apply Bock

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.

3.6.4 Image

谷 、	Camera Sett	ings							🛨 сри	4% Me	mory 23%
•••					Imo	oge					
Camera Management	Display Enh	ancement	Day/Night Setting:		OSD	Privacy M	lask	ROI			
				1	2	3	4	5	6	7	8
Device Search				9	10	11	12	13	14	15 23	16
PTZ Configuration				25	26	27	20	21	30	31	32
				33	34	35	36	37	38	39	40
Image				41	42	43	44	45	46	47	48
				49	50	51	52	53	54	55	56
Audio	Channel: 1	Name: CAM1		57	58	59	60	61	62	63	64
	Power Line Frequency	60Hz			•	Day/Night Mo	de	Auto Mode			•
Advanced	Smart IR Mode	Customize			•	Day to Night V	alue			36	Reset
Camera Maintenance	IR LED Level				Reset	Night to Day V	alue			82	Reset
	Outdoor/Indoor Mode	Outdoor			•	IR Light Sensor	Value	0			
						Corridor Mode		Off			•
		B				Image Rotatio		Off			•
						Keep Correct	ASDECT KOTIO	Off			•
Live View									Сору	Apply	Back

3.6.4.1 Display

📀 Milesight

* .	Camera Setti	ings							👤 сри	4% Me	amory 23%
•••					Ime	age					
Camera Management	Display Enh	ancement	Day/Night Settings		OSD	Privacy N	lask	ROI			
					2	3	4	5	6	7	8
Device Search					10	11	12	13	14	15	16
			1	7	18	19	20	21	22	23	24
PTZ Configuration			2		26	27	28	29	30	31	32
			3		34	35	36	37	38	39	40
			4		42	43	44	45	46	47	48
			4		50	51	52	53	54	55	56
	Channel: 1	Name: CAM1	5	/	58	59	60	61	62	63	64
Advanced	Power Line Frequency	60Hz			•	Day/Night Mo	de	Auto Mode			
haranesa	Smart IR Mode	Customize			•	Day to Night V	alue (,	36	Reset
Camera Maintenance	IR LED Level			000	Reset	Night to Day V	alue/	-		82	Reset
	Outdoor/Indoor Mode	Outdoor			•	IR Light Sensor	Value	0		-	
						Corridor Mode	6	Off			
		R				Image Rotatio	n	Off			
						Keep Correct	Aspect Ratio	Off			
Live View									Сору	Apply	Back

Step 1. Select channel.

Step 2. Set the configuration.

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

Smart IR Mode: With the combination of the High Beam and Low Beam, The IR LEDs technology has been upgraded to provide better image clarity and quality regardless of the object distance. Also, the Low Beam and High Beam's brightness can be adjusted manually or automatically on the basis of the Zoom ratio. Moreover, with the IR anti-reflection panel, the infrared light transmittance is highly increased. Support to set the strength of the IR to Auto Mode or Customize to achieve the best effect.

Near view IR level: Adjust the light strength of Low-Beams LED light level from 0 to 100.

Far view IR level: Adjust the light strength of High-Beams LED light level from 0 to 100.

IR Strength Value: The current value of Low-Beams LED and High-Beams LED light value.

IR LED Level: Adjust the IR LED level from 0 to 100.

White LED Level: Adjust the White LED level from 0 to 100.

Day/Night Switch Refocus: With this option enabled, the camera will refocus when switching between day mode and night mode.

Outdoor/Indoor Mode: Set Outdoor/Indoor mode for the channel.

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

Day to Night Sensitivity: Set the Sensitivity to trigger Night Mode.

Night to Day Sensitivity: Set the Sensitivity to trigger Day Mode.

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.

Corridor Mode: Set corridor mode.

Image Rotation: Set image rotation.

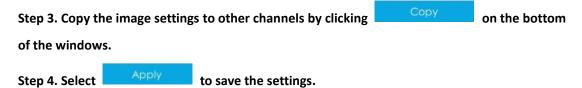
Smoked Dome Cover: This function is only for Pro Dome. If Pro Dome is equipped with a Smoked Dome Cover, enable this function to display a normal image.

Local Display Video: Select NTSC or PAL for local display.

Keep Correct Aspect Ratio: With this option enabled, the camera will prevent the image from distortion when resolution ratio is changed.

Note:

- 1. Smoked Dome Cover is only supported for Pro Dome and PTZ Dome cameras.
- 2. Smart IR Mode and IR LED Level are supported for cameras with IR LEDs.
- 3. White LED Level is only supported for PTZ Bullet cameras.
- 4. Day to Night Sensitivity and Night to Day Sensitivity under Auto Mode are only available under Auto Mode when camera are 180° Panoramic Bullet and Mini Bullet whose firmware version is 4X.7.0.74 or above.



3.6.4.2 Enhancement

Camera Management Diploy Device Search PtZ Configuration Image	Enhanci	emant Day	/Night Settings 9 17 25	OSD 2 10 18	age Privacy N 3 11 19	4 12 20	ROI. 5 13	6 14	7	8
Device Search PTZ Conliguration	Enhoric	amen) Day	1 9 17	2 10 18	3	4	5	6 14	7	8
PTZ Conliguration			17	10 18	11		5	6	7	8
PTZ Conliguration			17	18			13	14	15	14
					19	- 00				18
			25			20	21	22	23	24
Imoge				26	27	28	29	30	31	32
Imoge			33	34	35	36	37	38	39	40
			41	42	43	44	45	46	47	48
			49	50	51	52	53	S4	55	56
Audio	Channel: 1	Name: CAM1	57	58	59	60	61	62	63	64
Advanced White Bala	nce	Manual White Balance	ê	•	IR Balance Ma	de	Off			
Red Gain I	level			50	Reduce Motio	n Blur	Off			
Camera Maintenance Blue Gain 1	ovol		-	50	BLC/WDR/HLC	Mode	Single Mode			
Delog Mod	0	Off		•	BLC/WDR/HLC		BLC			
Digital Ima	e Stabilisation	Off		•	BLC Region		0#			
Ехрояле А	ode	Auto Mode		•						

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

Step 1. Select channel.

Step 2. Set the configuration.

Reduce Motion Blur: Enable this function to reduce the motion blur of objects effectively. You can adjust the deblur level from 1 to 100.

Reduce Video Stuttering: This function is only supported by the cameras of 5MP@20fps to decrease the unstable phenomenon.

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



Defog Mode: Better image effect in foggy weather.

Digital Image Stabilization: Decrease the blur and shakiness of the image.

Exposure Mode: Auto Mode, Manual Mode, and Schedule Mode are available.

IR Balance Mode: Turn on to avoid IR overexposure.

BLC/WDR/HLC Mode: Click to choose Single Mode, Day/Night Mode or Schedule Mode.

BLC/WDR/HLC: Click to configure Back Light Compensation, Wide Dynamic Range or High Light Control.

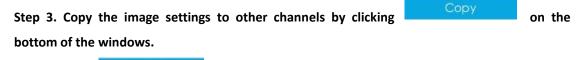
Wide Dynamic Range: Off, Customize, and On are available.

Wide Dynamic Level: Set WDR with Low/High/Auto level.

BLC Region: Off, Customize, and Centre are available (in single mode, only enable when WDR is disable).

HLC Level: Select level for HLC.

Anti-flicker Level: Reduce flickers that appear on screen in some lighting conditions and there are 10 levels of anti-flicker adjustments.



Step 4. Select Apply to save the settings.

3.6.4.3 Day/Night Settings

ñ.	Cam	iera Settii	ngs							👤 сри	5% Me	emory 23
						Imc	ige					
Camera Management	Display	Enha	ncement	Day/Night Se	ttings	OSD	Privacy /	Mask	ROI			
					1.1	2	3	4	5	6	7	8
evice Search					9	10	11	12	13	14	15	16
					17	18	19	20	21	22	23	24
Z Configuration					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
		Channel: 1	Name: CAM1		57	58	59	60	61	62	63	64
dvanced	Time	Exposure Level		Maximum Shutte		R-CUT Latency	IR-CUT	IR LED	Color Mode	Edit	Dele	ite
avancea	Night	5	1/25	1/100000	100	5s 5s	Off	On	B/W Color	2 2		
amera Maintenance						Ø						

Step 1. Select channel.

Step 2. Set the configuration.

Exposure Level: Level 0~10 are available to meet your need.
Minimum Shutter: Set the Minimum Shutter to 1~1/100000s.
Maximum Shutter: Set the Maximum Shutter to 1~1/100000s.
Limit Gain Level: Set the Limit Gain Level to 1~100.



IR-CUT Latency: The interval time of switching one mode to another. IR-CUT: Turn on or turn off IR-CUT. IR LED: Turn on or turn off IR-LED. Color Mode: Select B/W or Color mode under Day/Night mode. Edit: Edit the parameters above. Step 3. Copy the image settings to other channels by clicking Copy on the bottom of the windows.

Step 4. Select Apply to save the settings.

3.6.4.4 OSD

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

ጽ .	Camera Setti	ngs							上 сри	4% Mt	amory 23%
•••					Imo	oge					
Camera Management	Display Enho	incement	Day/Night Settings		OSD	Privacy /	Nask .	ROI			
				1	2	3	4	5	6	7	8
Device Search				9	10	-11	12	13	14	-15	16
				17	18	19	20	21	22	23	24
P1Z Configuration				25	26	27	28	29	30	31	32
				33	34	35	36	37	38	39	40
Image				41	42	43	44	45	46	47	48
				49	50	51	52	53	54	55	56
Audio	Channel: 1	Nome: CAM1		57	58	59	60	61	62	63	64
Advanced	Video Stream	All Streams			•						
Advanceu	Show Video Title	Enable				Show Timesto	mp	Enable			
Camera Maintenance	Video Title	Network Cam	iera			Date Position		Top-Right			
Currier Maintenance	Title Position	Top-Left			•	Date Format		YYYY-MM-DD			•
						Ø					
Live View								1	Сору	Apply	Back

Step 1. Select channel.

Step 2. Select Video Stream, including All Streams, Primary Stream and Secondary Stream. Step 3. Enable video title and timestamp.

Video Stream	All Streams		
Show Video Tille	Z Enable	Show Timestamp	Enable
Video Title	Pro Bullet	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.

Step 4. Copy the OSD settings to the other channels by clicking the "Copy" button on

the bottom of the windows.

Step 5. Select " Apply " to save the settings.



3.6.4.5 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.

* .	Camer	a Settings							上 сри	3% Mi	emory 23%
••••					Ime	age					
Camera Management	Display	Enhancement	Day/Night Se	ttings	OSD	Privacy	/ Mask	ROI			
				1	2	3	4	5	6	7	8
Device Search				9	10	-11	12	13	14	-15	16
				17	18	19	20	21	22	23	24
PTZ Configuration		1 1		25	26	27	28	29	30	31	32
		I I		33	34	35	36	37	38	39	40
				41	42	43	44	45	46	47	48
				49	50	51	52	53	S4	55	56
		Channel: 2 Name: CAM2		57	58	59	60	61	62	63	64
				Privacy Mas			Z Enable				
				Clear			Clear All				
Camera Maintenance				Type			White				
				1	Nar Mai			oble Z		Delete	
					Mus			¥1			
			53								
				Note: Support L	p to 8 Privacy Ma	sk areas.					
Live View									Сору	Apply	Back

You can add a privacy mask by following steps:

Step 1. Select channel and enable privacy mask.

Step 2. Set the privacy mask type and drag the mouse to select the area which is privacy on the live window. You can add 8 areas at most and each zone can be enabled and disabled.

Step 3. 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.

Note:

Ensure the firmware version of the network camera is 4X.7.0.70 or above.

3.6.4.6 ROI

Milesight NVR supports to set ROI (Region Of Interest). It is an image cropping feature designed to assist users in achieving bandwidth and storage optimization.

* .	Came	ra Settings						👤 сри	4% Me	mory 22
				lm	age					
Camera Management	Display	Enhancement	Day/Night Settings	OSD	Privacy	Mask	ROI			
			1	2	3	4	5	6	7	8
Device Search			9	10	-11	12	13	14	15	16
		1	17	18	19	20	21	22	23	24
PTZ Configuration			25	26	27	28	29	30	31	32
			33	34	35	36	37	38	39	40
			41	42 50	43	44 52	45 53	46 54	47 55	48
Audio		Channel: 1 Name: CAM1	49 57	58	59	60	61	62	63	50 64
Advanced			ROI			🗹 Enable				
			Clear			Clear All				
Camera Maintenance			Video Stree	m		Primary Stream				
			D	Na		Eno			Delete	
			1	RC	81	2	1		Ū.	
		ß								
			Note: Support	up to 8 ROI areas.						
Live View								Сору	Apply	Back

You can add a ROI by following steps:

Step 1. Select channel and enable ROI.

Step 2. Set the video stream type and drag the mouse to select the area in the preview window. You can add 8 areas at most and each zone can be enabled and disabled.

Step 3. Copy the ROI area to the other channels by clicking the "Copy" button on the bottom of the windows.

Step 4. Select " Apply " to save the settings.

Note:

📀 Milesight

Ensure the firmware version of the network camera is 4X.7.0.70 or above.

3.6.5 Audio

* .	Camera Settings						上 сри	3% Me	tmory 22%
••••			Au	dio					
Camera Management		1	2	3	4	5	6	7	8
		9	10	11	12	13	14	15	16
Device Search		17	18	19	20	21	22	23	24
		25	26	27	28	29	30	31	32
PTZ Configuration		33	34	35	36	37	38	39	40
		41	42	43	44	45	46	47	48
		49 57	50 58	51	52 60	53	54 62	55 63	56 64
Audio	Channel: 2 Name: CAM2		50	57	00	01	02	65	04
2000		Audio		-	Enable				
Advanced		Audio Mode			Both Audio Input &	Output			
		Audio Input							
Camera Maintenance		Denoise			Enable				
		Encoding			3.711-ULaw				
		Input Mode Sample Rate		_	Wic Input				
		Input Gain			3KHz				
		Audio Output							
	12	Auto Gain Co	introl	8	Enable				
		Output Volun	ne	-					0100
		Output Volun	ne						-
Live View							Сору	Apply	Bac

This audio function allows to configure the audio interface parameters for camera. **Enable Audio:** Check on the check box to enable audio feature.



Denoise: Set it as On/Off. When you set the function on, the noise detected can be filtered.
Encoding: G.711-ULaw, G.711-ALaw, AAC LC, G.722 and G.726 are available.
Sample Rate: 8KHz, 16KHz, 32KHz, 44.1KHz, and 48KHz are available.
Audio Bit Rate: The function is available only for AAC LC, and supports up to 256kbps.
Input Gain: Input audio gain level, which is 0-100.
Auto Gain Control: This function is only for H.265 series, improve the quality of audio.
Output Volume: Adjust volume of output.

Note:

Make sure you camera version is xx.7.0.76 or above.

3.6.6 Advanced

3.6.6.1 Watermark

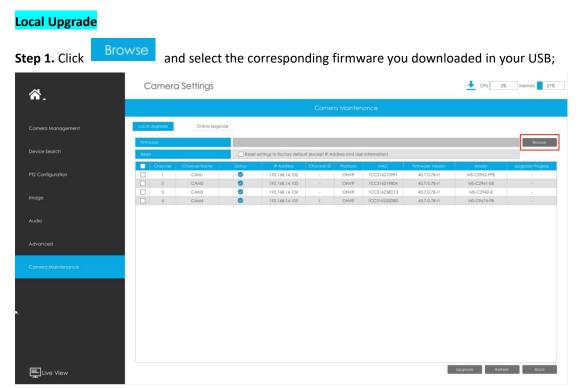
ஃ .	Camera Settings						上 сри	3% Men	nary 22%
•••			Advo	inced					
Camera Management	Watermark								
Device Search		9	2	3	4	5	6	7	8
		17	18	19	20	21	22	23	24
PTZ Configuration		33	34	35	36	37	38	39	40
Image		41	42 50	43	44 52	45 53	46 54	47 55	48
Audio	Channel: 1 Name: CAM1	57	58	59	60	61	62	63	64
Advanced		Watermark		En	iable				•
Camera Maintenance		Watermark Str	ing	IP	CAMERA				
	rmark by following step	ъ. S:					Сору	Apply	8ock
Step 1. Select chan									
-	eckbox to enable Wate	rmark.							
Step 3. Enter Water	rmark String.								
Step 4. Copy the ir	nage settings to other	channels	by cli	cking	(Сору	c	on the	bottom
of the windows.									
Step 5. Select	Apply to save the	e settings.							
Note:									

Watermark only appears when exporting by a third party.

3.6.7 Camera Maintenance

📀 Milesight

Milesight NVRs support both Online Upgrade and Local Upgrade of Milesight Cameras.



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

* .	C	amera	Settings							上 сри 2%	Memory 21%
						Camer	a Mainter	nance			
Camera Management	Local L	ipgrode	Online Upgrade								
Device Search	Firmwi Reset			- C Revel	settings to factory defau	di lavaaa i R Ar	idease and the	r information (Browse
PTZ Configuration		Channel	Channel Name CAM1	Status	IP Address 192.168.14.102	Channel ID	ONVIF	MAC 1CC316210991	Firmware Vesion 40.7.0.78-r1	Model MS-C2962-FP8	Upgrade Progress
		2	20042	0	192.168.14.103		ONVIE	1CC316219804	40.7.0.78-r1	MS-C2961-EB	
		3	CAM3	0	192.168.14.104		ONVIF	1CC316238D13	40.7.0.78-r1	MS-C2942-B	
Image		4	CAM4	0	192.168.14.105	1	ONVIF	1CC316220D8D	43.7.0.78-r1	MS-C9674-P8	
Advanced Camera Maintenance											
Live View										Upgrade Refresh	Back
										_	_

Step 3. Choose the corresponding channel you want to upgrade and click upgrade the camera.

to

* .	amer	a Settings							🛨 CPU 2%	Memory 21
					Camer	a Mainter	nance			
Camera Management	Upgrade	Online Upgrad	0							
	ware									Browse
Device Search Rese	t i		Reset	ettings to factory dela	ill (except IP Ac	idress and Use	er information)			
	Channel	Channel Name	Status	IP Address	Channel D	Protocol	MAC	Firmware Version	Model	Upgrade Progress
IZ Configuration	1	CAM1	0	192.168.14.102		ONVIF	1CC316210991	40.7.0.78-r1	MS-C2962-FPB	
	2	CAM2	0	192.168.14.103		ONVIF	1CC316219804	40.7.0.78-r1	MS-C2961-EB	
	3	CAM3	0	192.168.14.104		ONVIF	1CC316238D13	40.7.0.78-r1	MS-C2942-B	
noge	4	CAM4	0	192.168.14.105	1	ONVIF	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	
Advanced										
Camera Maintenance										
E Live View									Upgrade Refes	h Back

Online Upgrade

• Milesight

Step 1. Click to confirm whether there is a new version for the camera added to NVR;

If there is a new version for camera, the icon in corresponding Upgrade column will turn blue and the latest version will be displayed in Latest Version column.

<u> ሰ</u>	С	ame	era Settin	Igs							👤 сри	2%	Memory 22%
							Can	nera Mainteno	ance				
Camera Management	Local	Upgrade	On	ine Upgrade	1								
		Channel	Channel Name		IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrode Progress
Device Search		1	CAM1	0	192.168.14.102		ONVIF	1CC316210991	40.7.0.78-r1	MS-C2962-FPB		순	
		2	CAM2	A	192.168.14.103		ONVIF	1CC316219804	40.7.0.78-r1	MS-C2961-E8		Ŷ	
172 Configuration		3	CAM3	A	192.168.14.104		ONVIE					Ŷ	
12 Conlightailon		4	CAM4	0	192.168.14.105	1	ONVIF	1CC316220D8D	43.7.0.78-r1	MS-C9674-P8		Ŷ	1
Audio													
Advanced													
Advanced													
Advanced													
Advanced Camera Mainlenance													
Advanced													
Advanced										Check	Upgrade	Refeatu	łock

Step 2. There are two ways to confirm the upgrade.

① Click the blue icon in corresponding Upgrade column to upgrade camera.

* .													
							Can	nera Mainteno	ince				
Camera Management	Local	Upgrade	On	line Upgrode									
		Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrade Prog
Device Search		1	CAM1	0	192.168.14.102	-	ONVIE	1CC316210991	40.7.0.78-r1	MS-C2962-FP8	-	Ŷ	
		2	CAM2	A	192.168.14.103		ONVIF	1CC316219804	40.7.0.78-r1	MS-C2961-EB		Ŷ	
		3	CAM3	A	192.168.14.104		ONVIE					0	
PTZ Configuration		4	CAM4	0	192.168.14.105	1	ONVIF	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB		\$	
Image													
Audio													
2,020													
Audio Advanced													
Audio													
Audio Advanced													
Audio Advanced													

(2) A way to achieve batch upgrade. Just select the cameras you want to upgrade and then click

Upgrade button.				
ጽ.	Camera Settings			CPU 2% Memory 22%
•••			Camera Maintenance	
Camera Management	Local Upgrade Online Upgrade			
	Channel Channel Nome Status	IP Address Channel D 192.168.14.102 -	Profocol MAC Firmware Version Model ONVIF 1CC316210991 40.7.0.78-r1 MS-C2962-FP8	Latest Version Upgrade Upgrade Progress
Device Search	□ 1 CAM1	192.168.14.102 -	ONVIF 1CC316210991 40.7.0.78-11 M3-C2961-EB ONVIF 1CC316219804 40.7.0.78-11 M5-C2961-EB	· · ·
	3 CAM3 A	192.168.14.104 -	ONVIF	· · ·
PTZ Configuration	4 CAM4	192.168.14.105 1	ONVIF 1CC316220D8D 43.7.0.78-r1 MS-C9674-PB	
Audio Advanced Camlera Maintenance				
Live View			Check	Upgrade Refresh Back

3.7 Storage

📀 Milesight

* .	Storage							👤 сри	1% M	emory 22%
••••				Video F	Record					
	Record Schedule Batch Setti	ings Record Se	ttings							
			E E	2	3	4	5	6	7	8
			9	10	11	12	13	14	15	16
			17	18	19	20	21	22	23	24
General Settings			25	26	27	28	29	30	31	32
			33	34	35	36	37	38	39	40
Disk Management			41	42	43	-44	45	46	47	48
			49	50	51	52	53	54	55	56
RAID	Channel: 1 Nome: (CAMI	57	58	59	60	61	62	63	64
Storage Mode	Clear All O Sunday	Solect All Edit	8 10	12 14	16 18	20 22	24	Erase		
	Monday							Event		
	Tuesday						Even	t		
	Wednesday							Motion Detect	tion	
	Thursday							Alarm		
	Friday							VCA		
	Saturday							Smart Analy:	ss 0	
	Holiday									
Live View							1	Сору	Apply	Back

Preparation for Record

Step 1. Ensure your NVR has been installed and the HDD has been initialized, please check it on "Storage" -> "Disk Management" interface.

* .	Storage						+	CPU 1%	Memory	22%
				Disk M	anagement					
Video Record	Port S	Vendor WDC WD20EZRX-00DC080	Status Normal	Total 1.819 TB	Free 78.00 G8	Property R/W	Type LOCAL	Group 2	Edit	Delete
Snapshot										
General Settings										
Storage Mode	Total Capacity	1.819 TB								
	Available Capacity	78.00 GB								
				53						
Live View						Add	Refres	n Initial	ze	Back

Step 2. Ensure that the HDD has sufficient storage space.

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



* .	Storage		LPU 1% Memory 22%
		General Settings	
Video Record	Recycle Mode	Enoble	•
Snapshot	eSATA Function	Storage Storage Backup	·
General Settings			
Disk Management		53	
RAID			
Storage Mode			
Live View			Apply Back

Recycle Mode: You can enable or disable Recycle Mode for all storage device. **eSATA Function:** Both storage and backup are available.

Note:

eSATA Function is only available for NVR 8000 Series.

3.7.1 Video Record

Method 1: Click	Edit	to edi	t schedule. Sel	ect Day,	Recor	d Typ	e and	Time	to fini
diting.									
<u>م</u> .	Storage						上 сри	1% M	emory 22%
	Video Record								
Video Record	Record Schedule	Batch Settings	Record Settings Schedule Edit	_				1	8
Snapshot		Day	Sunday		4	13	0	15	16
		Туре	Continuous		20	21	22	23	24
General Settings Disk Management			Time	R	28	29	30	31	32
		Time1	00:00-24:00	\$	36	37	38	39	40
		Time2	00:00-00:00	\$	44	45	46	47	48
		Time3	00:00-00:00	\$	52	53	54	55	56
		Time4	00:00-00:00	\$	60	61	62	63	64
RAID	Channel: 1	Time5	00:00-00:00	\$					
		Timeó	00:00-00:00	\$					
Storage Mode		Time7	00:00-00:00	\$					
		Time8	00:00-00:00	\$					
	Clear A	ul Time9	00:00-00:00	\$	20 25	24	Erase		
	Sunday	Time10	00:00-00:00	÷	20 21	14	Continue	ous -	
	Monday	Time11	00:00-00:00	\$			Event		
	Tuesday	Time12	00:00-00:00	\$		Eve	nt		
	Wednesd	Cop/	V OK Cancel	Apply			Motion Detec	tion	
	Filday						VCA		
	Saturday						Smart Analy	* 0	
	Holiday								
Live View	Holiday						Сору	Apply	

Record Schedule

Step 1. Select channel. Step 2. Set record schedule.

Method 2: Select operation type: Continuous, Event (including Motion, Alarm, VCA and Smart Analysis) 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

Clear All												
斧.	Stora	ge								👤 ср	1% M	emory
•						Video Re	cord					
'ideo Record	Record Sched	fule :	Satch Settings	Record Setfin	gs							
					- E -	2	3	4	5	6	7	8
					17	10	19	12	13	14	15 23	16 24
General Settings					25	26	27	28	29	30	31	32
					33	34 42	35 43	36	37 45	38 46	39 47	40
sk Management					41	42 50	43	44	45	40	47	48
		Channel: 1	Nome: CAM1		57	58	59	60	61	62	63	64
Duve View p 3. Click	Сору	Clear All Sunday Manday Needay Wednedd Thunsday Saturday Holday	0 2	4 6		d conf		18 20	22 24 E	Even Adation Defec Adarm VCA Smart Analy Copy	and the second sec	Bo
				Chann			- 3					
	🖌 All											
	1	2	3	4	✓ 5	1	6	✓ 7	8			
	9	10	11	12	13			✓ 15	16			
	17	18	19	20	21			23	24			
		1				and the second second						
	25	26	27	28	29		30	✓ 31	32			
	33 🗹	34	35	36	37	✓ :	38	✓ 39	40			
	41	✓ 42	V 43	44	45		46	✓ 47	✓ 48			
	49	50	51	52	53		54	✓ 55	56			
	57	58	59	✓ 60	61			✓ 63	64			

Note:

Here are steps for setting ANPR record correctly so that NVR will record when license plate is detected.

Step 1: Set Smart Analysis as Record Type in Storage -> Video Record -> Record Schedule interface; The exclamation mark next to Smart Analysis is used to indicate that Smart Analysis includes ANPR.

or



Step 2: Ensure Black List Mode or White List Mode or Visitor Mode is enabled as your demand.Step 3: Effective time and Trigger Channels Record action of Black List Mode/White List Mode/Visitor Mode are set (Full effective time and trigger channel record are set by default).

	Audible Warning Email Linkage Event Popup PTZ Action Alarm Output White LED Others	 All 1 9 17 25 33 41 49 	neis Record 2 10 10 18 26 34 42 50 58 58 neis Snopshot 2 2 10 10 18 26 34	3 11 19 27 35 43 51 59 59 3 11 19 27	4 22 28 36 44 52 60 4 12 29 20 28 36 44 52 20 20 28 36 44 52 20 20 28 36 44 20 20 28 28 28 28 28 28 28 28 28 28	5 13 21 29 37 45 53 61	6 14 22 30 38 46 54 62 66 14	7 15 23 31 39 47 55 43	8 16 24 32 40 48 56 56 64		
	Email Linkage Event Popup PtZ Action Alarm Output White LED	 Ai Y S S S S S Ai 40 S Vigger Chann Ai 1 9 77 25 S Ai 41 49 	2 10 18 24 34 42 50 58 58 10 10 18 24 10 10 18 24	11 19 27 35 43 51 59 3 3 11 11 19	 ✓ 12 20 28 36 44 52 60 4 ✓ 12 	13 21 29 37 45 53 61	14 22 30 38 46 54 62	15 23 31 39 47 55 63	16 24 32 40 48 56 64		
	Event Popup PTZ Action Alarm Output White LED	9 17 25 33 41 49 77 Trager Chorn 9 1 1 9 77 72 73 73 74 1 49 41 49 41 49 41 49 41 49 41 49 41 49 41 41 49 41 41 49 41 41 41 41 41 41 41 41 41 41	10 18 26 34 42 50 58 mets Snopshof 2 2 10 18 26 18 26 10 18 26 10 10 10 18 18 18 18 18 18 18 18 18 18	11 19 27 35 43 51 59 3 3 11 11 19	 ✓ 12 20 28 36 44 52 60 4 ✓ 12 	13 21 29 37 45 53 61	14 22 30 38 46 54 62	15 23 31 39 47 55 63	16 24 32 40 48 56 64		
	PTZ Action Alarm Output White LED	17 25 33 41 77 Wager Chann 8 A1 1 9 77 17 25 33 41 41	18 26 34 42 50 58 nets Snopshot 2 10 18 26	19 27 35 43 51 59 3 3 11 11 19	20 28 36 44 52 60 4 4 ¥	21 29 37 45 53 61	22 30 38 46 54 62	23 31 39 47 55 63	24 32 40 48 56 64		
	Alarm Output White LED	25 33 41 49 57 Trigger Chorn a Al 1 9 7 77 25 33 41 41 49	26 34 42 50 58 nets Snopshot 2 10 18 26	227 35 43 51 59 3 3 11 11 19	28 36 44 52 60	29 37 45 53 61	30 38 46 54 62	31 39 47 55 63	32 40 48 56 64		
	Alarm Output White LED	 33 41 49 57 Trigger Chant All 1 9 17 25 33 41 49 	34 42 50 58 news Snapshot 2 10 18 26	35 43 51 59 3 11 19	36 44 52 60 4 4 ¥ 12	37 45 53 61	38 46 54 62	39 47 55 63	40 48 56 64		
	White LED	 41 49 57 Trigger Chant All 1 9 17 25 33 41 49 	42 50 58 ness Snapshot 2 10 18 26	43 51 59 3 11 19	44 52 60 4 V 12	45 53 61	46 54 62	47 55 63	48 56 64		
		49 57 Trigger Chani 1 9 17 25 33 33 41 41 49	2 2 10 18 26	51 59 3 11 19	52 60 4 V 12	53 61 5	54 62	55 63	☐ 56 ☐ 64		
		57 Trigger Chan 1 9 17 25 33 33 41 41	58 nels Snapshot 2 10 18 26	59 3 11 19	60 4 12	6 1	62	63	64		
	Others	Trigger Channel All 9 17 25 33 41 49	neis Snopshot	3 11 19	□ 4 ☑ 12	5	6	7			
		 All 1 9 17 25 33 41 49 	2 10 18 26	11 19	12				8		
		1 9 17 25 33 41 49	10 18 26	11 19	12				8	ī.	
		9 17 25 33 41 49	10 18 26	11 19	12				8	1	
		17 25 33 41 49	18 26	19		13					
		25 33 41 49	26		20			15	16		
		33 41 49		27		21	22	23	24		
		41	34		28	29	30	31	32		
		49	C +0	35	36	37	38	39	40		
			42	43	44	45	46	47	48		
			50	51	52	53	54	55	56		
		57	58	59	60	61	62	63	64	l.	
		Note: This pa	ge's configuration	s will not be cop	xied into other c	hannels.					
o 3. Select cha	annels and	d click	Stop	Record	to	stop re	cord.				
	Stor	rage							🔸 c	PU 1%	Memory
* .		0									
Video Record	Record Sci	hedule	atch Settings	Record Settin	05						
video Record											
Snapshoł						2 3	4	5	6	1	8
] 10	12	13	14	15	16
General Settings						18		21	22	23	24
											32
						42 43	44	45	46	47	48
				6	Ş 49 🗌	50 51	52	53	54	55	56
					57	58 59	60	61			
		Channel: 1	Name: CAM1			399		0	62	63	64
		Channel: 1 Selected channels will Selected channels' ca	be set to continuous	record.] 20		0	62	63	64
Snapshot					AF	10 11 18 19 24 27 34 35 42 43 50 51	20 28 36 44 52		13 21 29 37 45 53	13 14 21 22 29 30 37 38 45 46 53 54	13 14 15 21 22 23 29 30 31 37 38 37 45 44 47 53 54 55

Record Settings

Make general configuration for selected channels. Click configuration to other channels.

to copy the same

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.

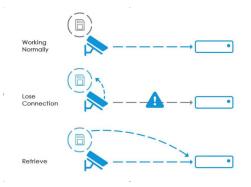
Post Record: Event post-record duration time. It will keep recording after the event is over.

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. If secondary stream is selected for recording while it is disabled, a prompt indicating that the secondary stream is unavailable will pop up.

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

ANR (Automatic Network Replenishment) : Can automatically replenish the recording gap due to internet interruptions. As the picture shows below, NVR stores videos when the network connection between NVR and cameras is normal. When the connection lost, the camera would start continuous recording and store videos in SD card instead. Then after reconnection, NVR automatically retrieves the missed videos from camera's SD card in a period of time to prevent data missing.



Here are some notes for using ANR below:

Note:

1. Ensure that your devices are with the correct firmware versions.

Camera: V4X.7.0.72 or above

NVR: V7X.9.0.6 or above

Firmware download link: https://www.milesight.com/support/download#firmware

- 2. Camera should equipped with on-board SD card.
- 3. Camera should be added to NVR by MSSP protocol.
- **4.** No matter whether NVR has recording schedule or not, camera will do ANR recording and then retrieve back to NVR after reconnection.

<u>۴.</u>	Storage							L CPI	2% N	emory 22%
•••				Video I	Record					
Video Record	Record Schedule	Batch Settings	rd Settings							
				2	3	4	5	6	7	8
Snapshot			9	10	11	12	13	14	15	16
			17	18	19	20	21	22	23	24
General Settings			25	26	27	28	29	30	31	32
			33	34	35	36	37	38	39	40
Disk Management			41	42 50	43	44	45 53	46 54	47	48
			4y 57	58	59	60	61	62	63	50
RAID	Channel: 1	Nome: CAM1	.37	50	57	00	01	0.4	63	04
			Pre Record			10s				•
Storage Mode			Post Record			55				•
			Audio Record			Enable				*
			Record Stream T	уре		Primary Stream				•
			Video Due Time			Unlimit				•
			ANR			Disable				•
Live View						5	1	Сору	Apply	Back
						1-2				

3.7.2 Snapshot

* .	Storage								上 сри	1% M	emory 23%
					Snap	oshot					
Video Record	Snapshot Schedule	Batch Settings	Snapshot Se	attings							
				1	2	3	4	5	6	7	8
Snapshot				9	10	11	12	13	14	15	16
				17	18	19	20	21	22	23	24
General Settings				25	26	27	28	29	30	31	32
				33	34	35	36	37	38	39	40
Disk Management				41	42	43	44	45	46	47	48
			_	49	50	51	52	53	54	55	56
RAID	Channel: 1	Name: CAM1		57	58	59	60	61	62	63	64
	Clear Sundar Needae Needae Needae Needae Needae Needae Needae Needae Needae Needae	0 2 y 1 1 y 1 1 y 1 1 y 1 1 y 1 1 y 1 1 y 1 1 y 1 1 y 1 1 y 1 1	Edit 4 6	8 10		4 16 18	20 22	24 Even	Erase Continuo Event Motion Detect Alarm VCA Smart Analys	ion is 0	
Live View									Сору	Apply	Back
Snapshot Schedule											
Step 1. Select chan	nel.										
Step 2. Set snapsho	ot schedule.										
Method 1: Click	Edit	to edit so	chedul	e. Sel	ect Da	ay and	Time t	to finis	h editi	ng.	



Method 2: Select operation type: Continuous, Event or Erase. Event record includes events like Motion Detection, Alarm, VCA and Smart Analysis, which can be searched in Event Playback. Then drag a square in the time table to set record effective time. It is convenient for you to set or clear

all corresponding s	chedule by	/ clicking	Select	All	or	Clea	r All				
* .	Storage								上 сри	1% N	ternory 23%
Video Record	Snapshot Schedule	Batch Settings	Snapshot	Settings							
				1	2	3	4	5	6	7	8
Snapshot				9	10	11	12	13	14	15	16
				17	18	19	20	21	22	23	24
General Settings				25	26 34	27 35	28 36	29 37	30 38	31 39	32
				33	42	43	44	45	38	47	40
Disk Management				49	50	51	52	53	54	55	56
RAID	-	nnel: 1 Name: CAM1	_	57	58	59	60	61	62	63	64
Storage Mode		Clear Al Solect A		8 10	12 14	16 18	20 22	24	Erase		
	ß.	Sunday Su						Even	Continua Event Motion Detect Alarm VCA Smart Analys	ion	
Step 3. Click	Сору	to copy th	ne same	snap	shot o	configu	uration	to otl	copy	annels	Back

				Chann	el Cop	y					
	V 1	2	3	V 4	5	16	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	V 40			
	41	✓ 42	V 43	44	45	✓ 46	V 47	✓ 48			
	49	50	51	52	53	54	55	56			
	57	58	59	✓ 60	61	✓ 62	✓ 63	64			
						-					
						OK		ancel			
Datah Catting											
Batch Settings											
Step 1. Click Bat	ch Setting	gs to	enter F	Batch Se	ottings	interfa	ce.				
Step 2. Select char	nole an	d click	Start	Snaps	not .	ctart a	always	rocord			
Step 2. Select char	inels an					Starta	iiwaysi	ecora.			
			Stop	Snapsh	ot						
Step3. Select chan	nels and	d click			+ /	s ctop r	ocord				
	_				((stop r	ecora.				
~	Store				— u	Stop i	ecora.		<u>+</u>	CPU 2%	Memory 23%
ஃ .	Store				((Snapshot	ecora.		Ŧ	CPU 2%	Memory 23%
Mideo Record	Storc Snapshot Sci	ige	Batch Settings	Snapshot Sr					<u>+</u>	СРИ 2%	Memory 23%
Video Record		ige	Batch Settings		ittings All	Snapshot	ecora. ⊠₄	∑ 5	↓	CPU 2%	Memory 235
		ige	Batch Sattings		itings 2 Al 2 1 2 2 9 2	Snapshot 2 10 III II	₩ 4 ₩ 12	13	Ø 6 Ø 14	♥ 7 ♥ 15	 ✓ 8 ✓ 16
Video Record		ige	Batch Settings		ttings 2 Al 2 1 2 2 9 2 2 17 2 2 17 2 2 25 2	Snapshot 2 Image: 3 minipage of the state of t	✓ 4 ✓ 12 ✓ 20 ✓ 28	 ✓ 13 ✓ 21 ✓ 29 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 	☑ 7 ☑ 15 ☑ 23 ☑ 31	 ✓ 8 ✓ 16 ✓ 24 ✓ 32
Video Record Snapshol		ige	Batch Settings		Hings 2 AI 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 4 A 2 A 4 A 2 A 4 A 2 A 4 A 4 A 2 A 4	Snapshot 2 Ø 3 10 Ø 11 18 Ø 12 26 Ø 2 24 Ø 35 42 Ø 43	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 36 ✓ 44 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 	V 8 V 16 V 24 V 32 V 40 V 48
Video Record Snapshot General Settings		ige	Batch Settings Name: CAW1		ttings 2 Al 2 1 2 2 9 2 17 2 25 2 33 2 33	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 	✓ 8 ✓ 16 ✓ 24 ✓ 32 ✓ 40
Video Record Snagasha General Settings Diik Management RAID	Snapshot Sci	age	Nome: CAM1	a stapshot.	Hings 2 A1 2 1 2 2 9 2 2 17 2 2 33 2 2 33 2 2 41 2 2 49 2	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 ✓ 53 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 ✓ 54 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 ✓ 55 	♥ 8 ♥ 16 ♥ 24 ♥ 32 ♥ 40 ♥ 36
Video Record Engashat General Settings Disk Management	Snapshot Sci	age	Nome: CAM1	a stapshot.	Hings 2 A1 2 1 2 2 9 2 2 17 2 2 33 2 2 33 2 2 41 2 2 49 2	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 ✓ 53 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 ✓ 54 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 ✓ 55 	♥ 8 ♥ 16 ♥ 24 ♥ 32 ♥ 40 ♥ 36
Video Record Snagasha General Settings Diik Management RAID	Snapshot Sci	age	Nome: CAM1	a stapshot.	Hings 2 A1 2 1 2 2 9 2 2 17 2 2 33 2 2 33 2 2 41 2 2 49 2	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 ✓ 53 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 ✓ 54 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 ✓ 55 	♥ 8 ♥ 16 ♥ 24 ♥ 32 ♥ 40 ♥ 36
Video Record Snagasha General Settings Diik Management RAID	Snapshot Sci	age	Nome: CAM1	a stapshot.	Hings 2 A1 2 1 2 2 9 2 2 17 2 2 33 2 2 33 2 2 41 2 2 49 2	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 ✓ 53 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 ✓ 54 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 ✓ 55 	♥ 8 ♥ 16 ♥ 24 ♥ 32 ♥ 40 ♥ 36
Video Record Snagashid General Settings Diik Management RAID	Snapshot Sci	age	Nome: CAM1	a stapshot.	Hings 2 A1 2 1 2 2 9 2 2 17 2 2 33 2 2 33 2 2 41 2 2 49 2	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 ✓ 53 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 ✓ 54 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 ✓ 55 	♥ 8 ♥ 16 ♥ 24 ♥ 32 ♥ 40 ♥ 36
Video Record Snagashid General Settings Diik Management RAID	Snapshot Sci	age	Nome: CAM1	a stapshot.	Hings 2 A1 2 1 2 2 9 2 2 17 2 2 33 2 2 33 2 2 41 2 2 49 2	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 ✓ 53 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 ✓ 54 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 ✓ 55 	♥ 8 ♥ 16 ♥ 24 ♥ 32 ♥ 40 ♥ 36
Video Record Snagashid General Settings Diik Management RAID	Snapshot Sci	age	Nome: CAM1	a stapshot.	Hings 2 A1 2 1 2 2 9 2 2 17 2 2 33 2 2 33 2 2 41 2 2 49 2	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 ✓ 53 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 ✓ 54 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 ✓ 55 	♥ 8 ♥ 16 ♥ 24 ♥ 32 ♥ 40 ♥ 36
Video Record Incosho General Settings Disk Management RAID Storage Mode	Snapshot Sci	age	Nome: CAM1	A shapehol.	Hings 2 A1 2 1 2 2 9 2 2 17 2 2 33 2 2 33 2 2 41 2 2 49 2	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 ✓ 53 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 ✓ 54 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 ✓ 55 	♥ 8 ♥ 16 ♥ 24 ♥ 32 ♥ 40 ♥ 36
Video Record General Settings Ditk Management RAID Storage Mode	Snapshot Sci	age	Nome: CAM1	A shapehol.	Hings 2 A1 2 1 2 2 9 2 2 17 2 2 33 2 2 33 2 2 41 2 2 49 2	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 ✓ 53 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 ✓ 54 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 ✓ 55 	√ 8 √ 16 √ 24 √ 32 √ 40 √ 56
Video Record Incosho General Settings Disk Management RAID Storage Mode	Snapshot Sci	age	Nome: CAM1	A shapehol.	Hings 2 A1 2 1 2 2 9 2 2 17 2 2 33 2 2 33 2 2 41 2 2 49 2	Snapshot 2 2 10 2 12 2 24 2 24 2 24 2 24 2 26 2 24 2 25 2	 ✓ 4 ✓ 12 ✓ 20 ✓ 28 ✓ 34 ✓ 44 ✓ 52 	 ✓ 13 ✓ 21 ✓ 29 ✓ 37 ✓ 45 ✓ 53 	 ✓ 6 ✓ 14 ✓ 22 ✓ 30 ✓ 38 ✓ 46 ✓ 54 	 ✓ 7 ✓ 15 ✓ 23 ✓ 31 ✓ 39 ✓ 47 ✓ 55 	√ 8 √ 16 √ 24 √ 32 √ 40 √ 56

configuration to other channels.

Channel: Select the channel which will be set.

Snapshot Interval: Set the snapshot Interval, 3~86400 seconds are available.

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

☆.	Storage							👤 сри	1%	Aemory 23
				Snap	oshot					
Video Record	Snapshot Schedule	Batch Settings	Snapshot Settings							
				2	3	4	5	6	7	8
			9	10	11	12	13	14	15	16
			17	18	19	20	21	22	23	24
General Settings			25	26	27	28	29	30	31	32
			33	34	35	36	37	38	39	40
Disk Management			41	42	43	44	45	46	47	48
			49	50	51	52	53	54	55	56
	Channel: 1	Nome: CAM1	57	58	59	60	61	62	63	64
Storage Mode			Snapshot Intervo	il.		10		Second	s 🔻 10-8	6400 Seconds
210rdge wode			Snapshot Due Ti	me	U	Inlimit				
				R						

3.7.3 General Settings

ጽ.	Storage			CPU 1% Memory 22%
			General Settings	
Video Record	Recycle Mode eSATA Function	Enable Storage		•
Snapshot	Chart Choich	Storage Backup		
General Settings				
Disk Management		đ		
RAID				
Storage Mode				
				Apply Back

Recycle Mode: You can enable or disable Recycle Mode for all storage device. **eSATA Function:** Both storage and backup are available.

Note:

eSATA Function is only available for NVR 8000 Series.

3.7.4 Disk Management

* .	Storage						+	CPU 1%	Memory	22%
•••				Disk M	anagement					
Video Record	Port C	Vendor WDC WD20EZRX-00DC080	Status Normal	Total 1.819 TB	Free 78.00 G8	Property R/W	Type LOCAL	Group 2	Edit	Delete
Snapshot										
General Settings										
Disk Management										
RAID										
Storage Mode	Total Capacity	1.819 TB								
	Available Capacity	78.00 GB								
				57						
Live View						Ado	Refresh	Initia	lize	Back

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.

谷 .	Storage						<u>+</u>	CPU 1%	Memory	23%
				Disk Mo	inagement					
Video Record	Port 3 WDC	Vendor WD20EZRX-00DC080	Status Normal	Totol 1.819 TB	Froe 78.00 G8	Property R/W	Type LOCAL	Group 2	Edit.	Delete
Snapshot										
General Settings			Add Netwo	rk Disk						
Disk Management			Network Disk1 NAS		-					
RAID		IP Address Directory								
Storage Mode	Total Capacity 1,819	1	D	rectory						
	Available Capacity 78.00	G								
			Search	OK	Cancel					
Live View						Add	Refresh	Initialia	10	Back
Select a storage de	wice and click	Initialize	to	initiali	zo it odi	it the Pro	nerty k	ny clic	king	Z
Sciell a storage ac		、	10	million			perty i	by che	NΠΒ	•

After that the storage device will be ready.

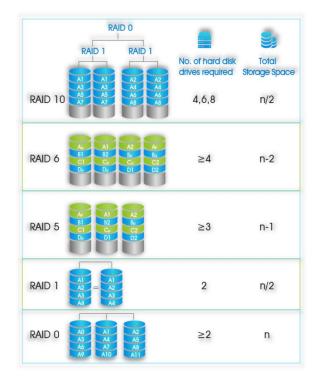
Capacity	1.819 TB
Group	2
Property	R/W
Private	Disable

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

3.7.5 RAID

* .	Storage				上 сри	1% Memory 23%
			RAID			
Video Record	RAID Mode	✓ Enable				
	Port 3 7	Vendor WDC WD10EJRX-89N74Y0 WDC WD10EJRX-89N74Y0	Status Offline Normal	Capacity 0 931.51 G8	Type LOCAL LOCAL	Hot Spare -
General Settings		100 1010001010	Porting.	13131 00	LOURL	2
Disk Management						
RAID						
Storage Mode						
	Aray				Quic	c Create
		Physical Disk RAID Capacity Status	Level Hot	Spare Rebuild	Delete	Task
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.



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.

谷 .	Storage					👤 СРИ	1% Memory 22%
				RAID			
Video Record	RAID Mode Physical Disk	Enable					
	Port 3	Vendo WDC WD20EZRX	te.	Status Normal	Capacity 1.819 TB	Type LOCAL	Hot Spare
General Settings			Create RAID				
Disk Management		RAID Name RAID Type	RAID RAID 0				
RAID		HDD Part RAID Capacity	⊠ 3 0				
Storage Mode							
	Алау		Rebuild	Create Cancel		Qui	K Create Create
	No. Nome	Physical Disk KAID Co	apocity storus	Lovel Hors	spare Rebuild	Dalete	Task

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.

3.7.6 Storage Mode

Quota

📀 Milesight

You can configure the storage capacity of each channel, including snapshots and recording, making storage allocation more flexible.

Video Record	Quoto	Group				
	Quoto		Enable			
Snapshot	Chonnel		1			
	Used Record C	Capacity (G8)	78			
General Settings		t Capacity (G8)	1			
General Senings	Record Quoto		78			\$ 4-1
Disk Management	Snapshot Qua		0			4-1
	_	100 March 1	y is lower than the one has quala.			
RAID	Channel	Channel Name	Used Record Capacity (GB)	Used Snapshot Capacity (GB)	Record Quata (GB)	Snapshot Quota (G8)
	1	CAM1	78	1	78	0
	2	CAM2 CAM3	78	1	78	0
	3	CAM3 CAM4	571	0	78 78	0
	4	CAM4 CAM5	78	0	78	0
	6	CAM5 CAM6	78	0	78	0
	7	CAM6 CAM7	78	0	78	0
	8	CAMB	78	1	78	0
	9	CAM9	78	0	78	0
	1211	CAM10	78	0	78	0
						0
	10	CAM11	15	0	78	
	11					
		CAM11 CAM12 CAM13	15 17 0	0	78 78 78	0
	11 12	CAM12	17	1	78	0
	11 12 13	CAM12 CAM13	17 0	1 0	78 78	0 0
	11 12 13 14	CAM12 CAM13 CAM14	17 0 0	1 0 0	78 78 78	0 0 0

Quota Enable

Step 2. Select the channel in which you want to enable Quota. Then the used record capacity and the used snapshot capacity of the corresponding channel are automatically displayed.

Channel	1
Used Record Capacity (GB)	78
Used Snapshot Capacity (GB)	1

Step 3. Set Quota for record and snapshot separately. And the Quota range from 4 to 16384 GB. The default value is 0 GB.

Record Quota (GB)	78	\$ 4~16384
Snapshot Quota (GB)	0	\$ 4~16384
Step 4. Click Apply Click Copy to	to take effect the configuration of the current interface. pop up the Channel Copy interface, then the Quota configuration	of the

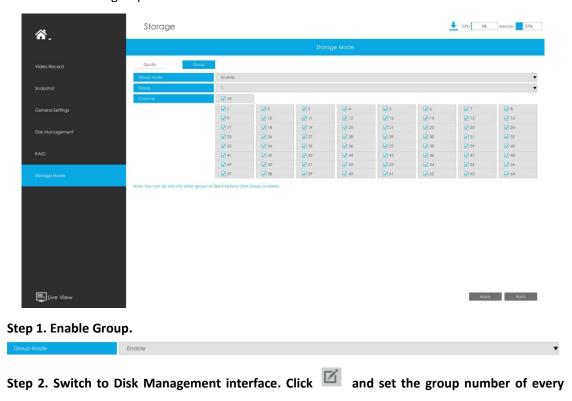
selected channel can be copied to the channel you want, and click to take effect the configuration.

🗌 All							
V 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

The Quota status of each channel will be displayed in a table at the bottom of the Storage Mode -> Quota interface.

Group

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



disk.

Note:

You can add 16 groups at most.

* .	Storage						<u>+</u>	CPU 4% Memory	26%
•••				Disk Me	anagement				
Video Record	Port 3	Vendor WDC WD20E2RX-00DC080	Status Normal	Totol 1.819 TB	Free 0	Property R/W	Type	Group Edit	Delete
			Disk Ec	it.					
Disk Management		Port Copocity	3 1.819.78						
RAID		Group Property	-1 8/W		•				
Storage Mode		Rivote.	Disable		•				
	Available Copacity 0								
				OK	Cancel				
							12		
							<i>a</i> .		
Live View							id Refresh	initialize	Back

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

Quota	Group								
Group Mode		Enable							
Group		1							
Channel		All							
		V 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

3.7.7 Auto Backup

* .	Storage							上 сри 1%	Memory 21%
				Au	to Backup				
	Auto Backup	Enable							
	Storage Device	0SATA							Format
Snapshot	Available Capacity	931.02 GB							
	Backup Start Time	Everyday				20:14:00			
General Settings	Backup Charinel	IA I							
		⊠ 1	2	3	4	5	6		8
Disk Management		9	10	11	12	13	14	15	16
uak management		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
Storage Mode		49	50	51	52	53	54	55	56
		57	58	59	60	61	62	63	64
	Backup Stream Type	Primary Strea	m						
	Backup File Type	AVI							
	Recycle	Enable							
	Backup Status	Standby							
	Last Successful Backup								
	Note: The latest 24 hours' video will b	a backed up							
		re booked up.							
Live View								App	ly Back
								Abb	y BOCK
tep 1. Enable	Auto Backup.								
Auto Backup	Enchle								

•



Step 2. Click **Format** to format the eSATA disk.

Storage Device	eSATA		Format
Step 3. Set Bac	kup Start Time.		
Backup Start Time	Everyday	20:14:00	\$

Step 4. Check the checkbox to select Backup Channel. You can also click to select all channels.

Step 5. Set Backup Stream Type to Primary Stream or Secondary Stream.

Step 6. Set Backup File Type to MP4, AVI or PS.

Step 7. You can enable or disable Recycle Mode for Auto Backup function.

Step 8. Click Apply to save the settings, and the latest 24 hours' video will be automatically backed up to eSATA.

Note:

1 You can check Auto Backup status in the Backup Status bar, and the corresponding status is as

follows.

- No Storage Device
- Unsupported Storage Device Format
- Standby
- Working (xx%)

② If there are already successfully backed up videos, the time when the backup ends will be

displayed in Last Successful Backup bar.

③ Only NVR 8000 Series supports Auto Backup function.

3.8 Event

📀 Milesight

3.8.1 Motion Detection

* .	Event Settings	上 сри	CPU 2% Memory 21%						
			Motion D	etection					
		<u> </u>	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
Alarm Input		33	34	35	36	37	38	39	40
		41	42	43	44	45	46	47	48
Alarm Output		49 57	50 58	51	52	53	54	55	56
	Channel: 1 Name: CAM1	57	58	24	60	01	62	63	0.4
Exception					-				
		Motion Detec			Enable				
VCA .		Motion Detec	lion		Set All	Clear All			10
		Effective Time			Edit				10
		Action			Edit				
		Action			COIL				
		R							
Live View							Сору	Apply	Back

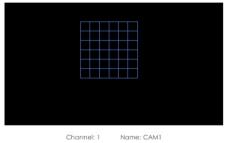


Select channel , Sensitivity and click <a>[to enable Motion Detection.

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 Detec] Enable				
Motion Detec	tion		Set All	Clear All			
Sensitivity		-					10
Effective Time)		Edit				
Action			Edit				

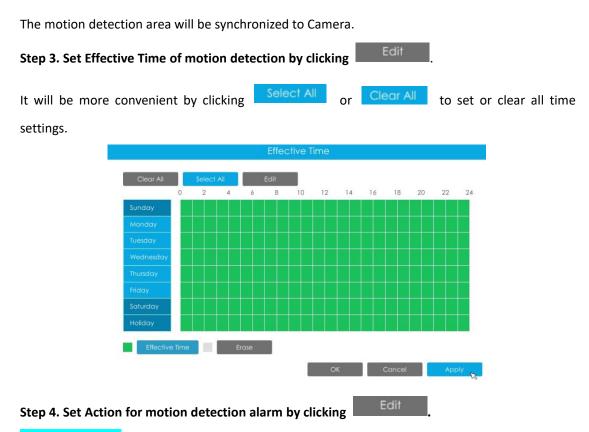
Step2: Set the area for triggering motion detection.

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



Note:





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

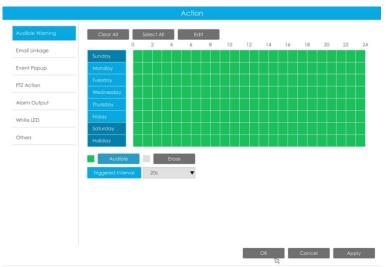
The user can set effective schedule as following two ways:

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 to edit record effective time manually.

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



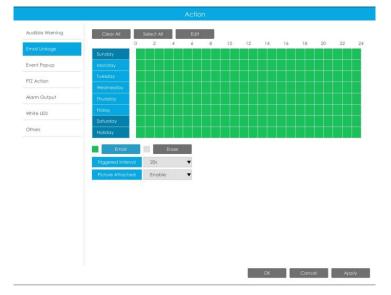
Email Linkage: NVR will send an email to the address you set before. The user can set effective schedule as following two ways: 1 Select the operation type, Email and Erase. Then drag a square on the time table for time

setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

(2) Click Edit to edit effective time manually.

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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And 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 Select the operation type, Event Popup 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 to edit effective time manually.

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

Audible Warning	Clear All	Select All	Edit						
Email Unkage	Sunday	0 2 4	6 8	10	12	14 16	18	20	22 2
Event Popup	Monday								
PTZ Action	Tuesday								
	Wednesday								
Alarm Output	Thursday								
White LED	Friday								
Others	Saturday Holiday								
	Event Pop	oup En	250						
	Triggered Inter	val 20s	•						

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

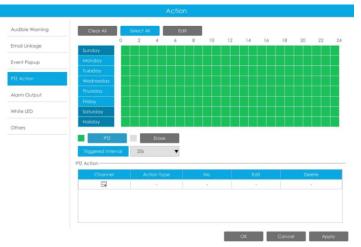
1 Select the operation type: PTZ or Erase. Then drag a square on the time table for time

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

to edit record effective time manually.

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



And you can add PTZ Action by clicking \Box .



Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. **Triggered Interval:** The effective interval between two actions when event triggered.

	Alarm Outpu			Edil	Delete
Email Linkage	F		2		14
Event Popup					
PTZ Action	1	Add Ald	irm Output		
Alarm Output		Alarm Output No.	CH1_1	•	
White LED		Alam Name	CH1_1	÷	
Others			CH1_2		
			CH2_1		
			CH2_2 CH3_1		
		OK			
			CH4_1		
			CH4_2		
			CH5_1		
			CH5_2	v	

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

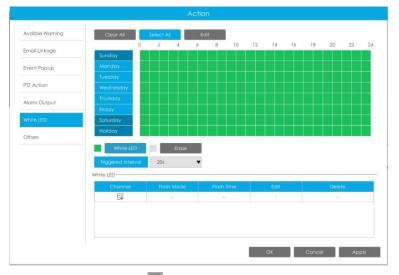
1 Select the operation type, White LED and Erase. Then drag a square on the time table for

time setting. It will be more convenient by clicking Select All or Clear All to set or clear

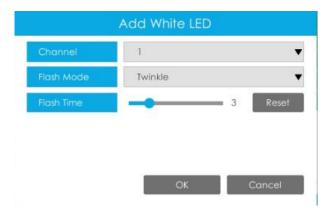
all time settings.

② Click Edit to edit effective time manually.

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



And you can add White LED by clicking 🖼.



Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger channels to record and snapshot when alarm is triggered.

Audible Warning	Trigger Chan	nels Record						
Addible Huiming	All							
Email Linkage	V 1	2	3	4	5	6	7	8
Event Popup	9	10	11	12	13	14	15	16
	17	18	19	20	21	22	23	24
PTZ Action	25	26	27	28	29	30	31	32
Alarm Output	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48
White LED	49	50	51	52	53	54	55	56
Others	57	58	59	60	61	62	63	64
Onidis.	Trigger Chanr	nels Snapshot						
	IIA 🔳							
	V 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
	Note: This par	ge's configuratio	n will not be co	pied into other	hannels	17 Tr		
	nore. mis pui	gesconiigorano	IT WILL HOT DE CO	pied into other c	annai na na na sa			

Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action.

Step 5. Click and it to copy the same configuration to other channels.

<u>۴.</u>	Event Settings											👤 сри	2% M	emory 21%
•••							N	lotion D	Detection					
Motion Detection						1		2	3	4	5	6	7	8
Video Loss						9 17		10	11	12	13	14	15 23	16
						25		26	27	28	29	30	31	32
Alarm Input					Chann	iel Cop	y	_		36	37	38	39	40
										44	45	46	47	48
Alarm Output	Channel: 1	₩ 1 □ 9	2	□ 3 □ 11	4	□ 5 □ 13	□ 6 □ 14	□ 7 □ 15	8	60	61	62	63	64
Exception	Channel: 1	17 25	☐ 18 □ 26	19 27	20	21	22 30	23 31	24					
VCA		33 41 49 57	34 42 50 58	35 43 51 59	36 44 52 60	37 45 53 61	38 46 54 62	39 47 55 63	40 48 56 64	Enable Se! Al	Clear All			10
							ОК		Cancel	Edit Edit				
												5		
Live View												Сору	Apply	Back

3.8.2 Video Loss

Step 1. Select a channel.

谷 .	Event Settings	i						👤 сри	2% Mt	mory 21%
				Video	o Loss					
Motion Detection			·	2	3	4	5	6	7	8
Video Loss			9	10	11	12 20	13	14	15 23	16 24
			25	26	27	28	29	30	31	32
Alarm Input			33	34	35	36	37	38	39	40
			41	42 50	43	44 52	45 53	46	47 55	48
Alarm Output			57	58	59	60	61	62	63	64
Exception	Channel: 1	Name: CAM1								
			Action			Edit				
VCA										
Live View						5		1	Сору	Back
				///						

Step 2. Set Action for video loss by clicking

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

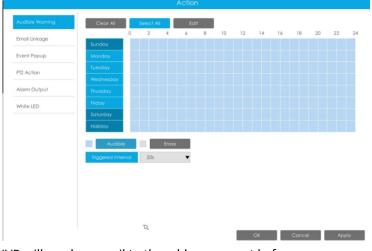
The user can set effective schedule as following two ways:

1 Select the operation type: 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 to edit effective time manually.

Triggered 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 rectangle 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 to edit record effective time manually.

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



Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And 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) Select the operation type, Event Popup 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 to edit effective time manually.

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

					Actio	n								
Audible Warning	Clear All		Select A	4	Ed	6t	1							
Email Linkage	Sunday	0	2	4	6	8	10	12	14	16	18	20	22	24
Event Popup	Monday													
PTZ Action	Tuesday													
Alarm Output	Wednesday Thursday													
White LED	Friday													
	Saturday Holiday													
	Event Po	DUD		Eros	0									
	Triggered Inte		20s		Ŧ									

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: PTZ or Erase. Then drag a square on the time table for time

OK Cancel Apply

setting. It will be more convenient by clicking Select All or Clear All to set or clear to set or clear all time settings.

of clear all time setting

② Click Edit to edit record effective time manually.

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

	Clear All		Select A		Ed		100	10	14	3.4	10	20	0.0	
Email Linkage		0	2	4	6	8	10	12	14	16	18	20	22	3
	Sunday													
Event Popup	Monday													
PTZ Action	Tuesdoy													
PIZ ACIION	Wednesday													
Alarm Output	Thursday													
	Friday													
White LED	Saturday													
	Holiday													
	PTZ		1.00	Erase										
	Triggered Inter		205											
		vai	205											
	PTZ Action-				_			_						
	Channel		Ac	tion Typ	e		No.		Ec	sit.		Del	ele.	
	57													

And you can add PTZ Action by clicking \square .





Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

mail Linkage	Alarm Output N	ło. Alarm	Name	Edit	Delete
nali unkage	57		e.		
vent Popup					
IZ Action		A station to be	irm Output		
am Output				_	
		Alarm Output No.	CH1_1	13	
hite LED			CH1_1		
			CH1_2		
			CH2_1		
			CH2_2		
			CH3_1		
		OK	CH3_2		
			CH4_1		
			CH4_2		
			CH5_1		
			CH5_2	*	

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

1 Select the operation type, White LED 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 to edit effective time manually.

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



					Actio	n								
Audible Warning	Clear All		Select All		Ed		ĺ.							
Email Linkage	Sunday	0	2	4	6	8	10	12	14	16	18	20	22	24
Event Popup	Monday													
PTZ Action	Tuesday Wednesday													
Alarm Output	Thursday													
White LED	Friday Saturday													
	Holiday													
	White LE	D		Erase										
	Triggered Inter	val	20s		•									
	White LED								12010					_
	Channel			Mode		Flash			Edit			Dele	le	
								-	ОК		Cance		Ap	
								-	OK.		Cance		Ab	Port.

And you can add White LED by clicking

	1	Channel
	Twinkle	flash Mode
Reset		Flash Time

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

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

<u>م</u> .	Event Settings											👤 сри	2% Me	mory 22%
								Vide	o Loss					
Motion Detection						1		2	3	4	5	6	7	8
Video Loss						9 17		10	11	12	13	14	15	16
						25		26	27	28	29	30	31	32
Alarm Input					Chann	el Cop	Υ.			36	37	38 46	39 47	40
Alarm Output		All	2	☑ 3	✓ 4	5	6	7	8	52	45 53	40 54	55	40
	Channel: 1	9 17	10	✓ 11✓ 19	 12 20 	 ✓ 13 ✓ 21 	 ✓ 14 ✓ 22 	 ✓ 15 ✓ 23 	 ✓ 16 ✓ 24 	60	61	62	63	64
Exception		25	26	27	 ✓ 28 ✓ 36 	29 29 37	30 x 38	 ✓ 31 ✓ 39 	 ✓ 32 ✓ 40 	Edit				
VCA		¥ 41 49	42	 ✓ 35 ✓ 43 ✓ 51 	V 44	45	46	47	48					
		57	✓ 50✓ 58	51	✓ 52✓ 60	✓ 53✓ 61	 ✓ 54 ✓ 62 	✓ 55✓ 63	✓ 56✓ 64					
							OK	0	Cancel					
										57				
Live View													Сору	Back

3.8.3 Alarm Input

3.8.3.1 NVR Alarm Input

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

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

NVR Alarm Input	Camera Alarm Input							
Alam input No.		2	3	4	5	6	7	8
	9	10	11	12	13	14	15	16
Alam Name								
Alam Type	NO							•
Effective Time	Edit							
Action	Edit							
Note:Alarm Name will not be capit	ed into other channels.							

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 effective time for alarm input by clicking corresponding

Step 3. Set action for alarm input by clicking corresponding

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

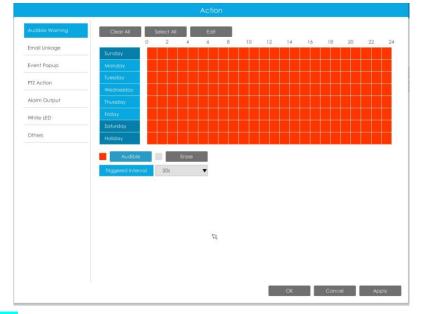
User can set effective schedule as following two ways:

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 to edit effective time manually.

Triggered 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

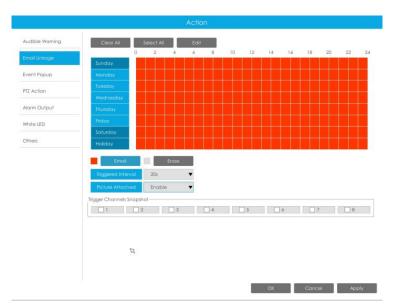
time settings.

2 Click Edit to edit effective time manually.

Triggered 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.

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



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

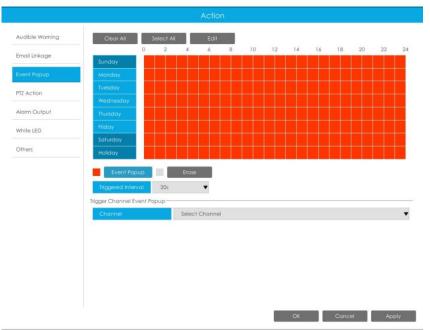
① Select the operation type, Event Popup and Erase. Then drag a square on the time table for

or Clear All to set or clear time setting. It will be more convenient by clicking

all time settings.

Edit 2 Click to edit effective time manually.

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



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: PTZ or Erase. Then drag a square on the time table for time

Select All or Clear All to set or clear to set

setting. It will be more convenient by clicking

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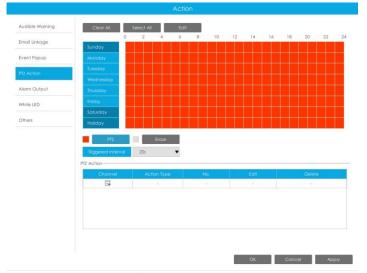
136

or clear all time settings.

2) Click

to edit record effective time manually.

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



And you can add PTZ Action by clicking \square .

Channel	1	•
Action Type	Preset	۲
No.	1	

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number.

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

		1	Action		
Audible Warning	Trigger Alarm Outp	but			
Email Linkage	Alarm Outpo	ut No, Alarm I	lame	Edit	Dolete
Event Popup					
PTZ Action					
Alarm Output				_	
White LED			arm Output		
Others		Alarm Output No.	1	₩	
		Adam Nome.	CH1_1		
			CH1_2		
			CH2_1		
			CH2_2 CH3_1		
			CH3_1		
			CH4_1		
			CH4_2		
			CH5_1	*	
	Triggered Interv	cl: 20s 🔻			
	1			ОК	Cancel Apply

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

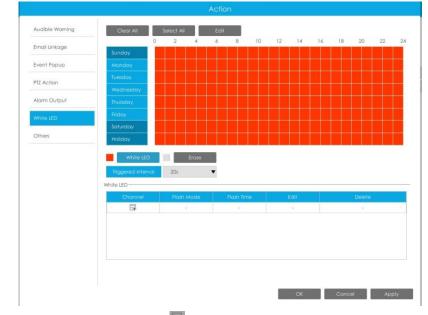
1 Select the operation type, White LED and Erase. Then drag a square on the time table for

time setting. It will be more convenient by clicking Select All or Clear All to set or clear

all time settings.

2 Click Edit to edit effective time manually.

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



And you can add White LED by clicking



Flash Mode Twinkle	
Hosh Moder	
Flash Time	3 Reset
Flash Time	3 Re

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

			4	Action				
Audible Warning	Trigger Chann	nels Record						
Email Linkage	1	2	3	X *	5	6	7	8
Event Popup	Trigger Chann	nels Snapshot						
PTZ Action	All					_	_	
	⊡ 1	2	3	☑ 4	5	6	7	⊠ 8
Alarm Output	Note: This pay	ge's configuratio	on will not be co	pied into othe	r channels.			
White LED								
Othes								
						13		
						ОК	Cancel	Apply

Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action.

Step 4: Copy alarm input settings to other input interface by clicking

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ጽ.	Event Settings												+	CPU 1%	Memory 22%
	Alaim Input														
Motion Detection	NVR Alarm Input Cam	nera Alarm	Input												
	Alam Input No.		4		2		3		4		5	6		7	8
Video Loss	Alarm Name		9		10		11		12		13	14		15	16
Alarm Input	Alarm Name	_					_		_						
	Effective Time			, k	larm In	put Co	ру								
Alarm Output	Action		2	□3	4	5	6	7	□ 8	L .					
	Note:Alarm Name will not be copied	□ 9	10				14								
Exception															
										L .					
VCA															
							OK	С	ancel						
											13				
												~			
												1			
													Contra	Apply	Back
Live View													Сору	Apply	Back

3.8.3.2 Camera Alarm Input

Milesight NVRs support configuring the Alarm Input of Milesight cameras directly. Step 1. Set Alarm Input Number, Enable Alarm Input, Set Alarm Name and Alarm Type

谷.	Event Settings						👤 сри	1% Me	emory 22%
•••			Alarm	Input					
Motion Detection	NVR Alarm Input Camera Alarm Input								
			2	3	4	5	6	7	8
Video Loss		9	10	11	12	13	14	15	16
Alarm Input		25	26	27	28	29	30	31	32
		33	34	35	36	37	38	39	40
Alarm Output		41	42	43	44	45	46	47	48
		49	50	51	52	53	54	55	56
Exception	Channel: 1 Name: CAM1	57	58	59	60	61	62	63	64
		Alarm Input No			1				
VCA		Alarm Input			Enable				
		Alorm Name							
		Alorm Type		N					•
		Effective Time		_	Edit				
					Con				
Live View							Сору	Apply	Back
	1					-			
Alarm Input No.: The	he channel which has inp	ut signal.							
Alarm Input: Click "	'Enable" to enable alarm	input of	this cł	nannel	_				
Alarm Name: Set a	name for the alarm.								
Alarm Type: Choose	e NO or NC alarm type fo	r the ala	m.						
//									
Step 2. Set effective	e time for Alarm Input by	y clicking	corre	spond	ing	Edi	t .		
Step 3. Set action for	or alarm input by clicking	g corresp	ondin	g	Edit				

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

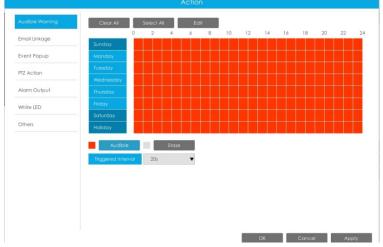
User can set effective schedule as following two ways:

- 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 to edit effective time manually.

Triggered 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

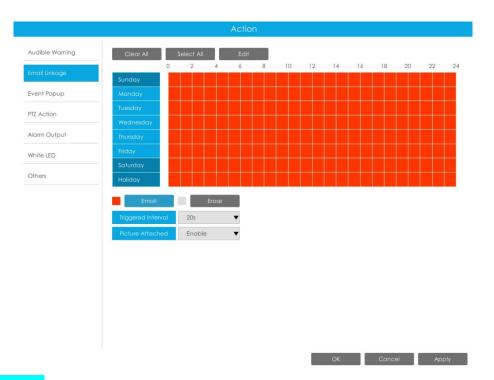
setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

2 Click

to edit effective time manually.

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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



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

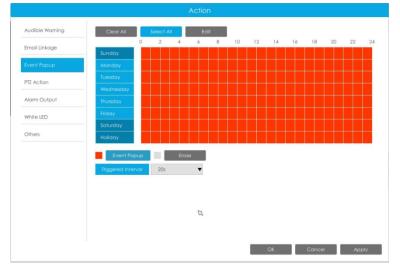
(1) Select the operation type, Event Popup and Erase. Then drag a square on the time table for

time setting. It will be more convenient by clicking Select All or Clear All to set or clear

all time settings.

② Click Edit to edit effective time manually.

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



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: PTZ or Erase. Then drag a square on the time table for time

Select All or Clear All to set or clear to set

setting. It will be more convenient by clicking

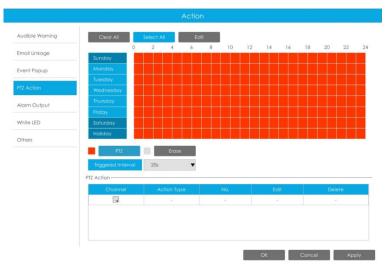
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or clear all time settings.

2) Click

to edit record effective time manually.

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



And you can add PTZ Action by clicking \Box .

Channel	1	•
Action Type	Preset	•
No.	1	-

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. **Triggered Interval:** The effective interval between two actions when event triggered.

Audible Warning	Trigger Alarm Output					
Email Linkage	Alarm Output N	o. Alarm	Name	Edit	Delete	
cinal pricage			-	-		
Event Popup						
PTZ Action		Add Alo	arm Output			
Alam Output				_		
		Alorm Output No.	CH1_1	2		
White LED			CHI_I	A		
Others			CH1_2			
01100			CH2_1			
			CH2_2			
			CH3_1			
		OK	CH3_2	- T. L.		
			CH4_1	P		
			CH4_2			
			CH5_1			
			CH5_2	¥		
	Triggered Interval	20s	•			

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

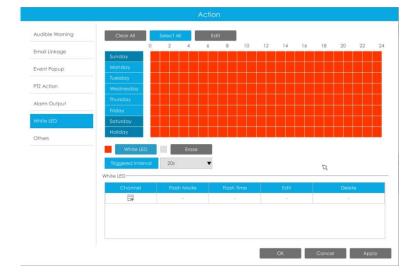
1 Select the operation type, White LED and Erase. Then drag a square on the time table for

time setting. It will be more convenient by clicking Select All or Clear All to set or clear

all time settings.

2 Click Edit to edit effective time manually.

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



And you can add White LED by clicking 📕.

Channel	1	
Flash Mode	Twinkle	
Flash Time		3 Reset
Flash Time		3 Reset

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

Audible Warning	Trigger Chan	nels Record						
Email Linkage	V 1	2	3	4	5	6	7	8
Event Popup	9	10	11	12	13	14	15	16
cyent op op	17	18	19	20	21	22	23	24
TZ Action	25	26	27	28	29	30	31	32
Narm Output	33	34	35	36	37	38	39	40
dann Gorpor	41	42	43	44	45	46	47	48
Vhite LED	49	50	51	52	53	54	55	56
Others	57	58	59	60	61	62	63	64
	Trigger Chan							
	▲ 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
	Note: This pay	ge's configuratio	in will not be co	pied into other o	channels.	ок	Cancel	Apply

Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action.

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

* .	Event Settings											👤 сри	1% Me	mory 22%
•••								Alam	n Input					
Motion Detection	NVR Alarm Input	mera Alarmi	input											
						1		2	3	4	5	6	7	8
						9		10	11	12	13	- 14	15	16
						17		18	19	20	21	22	23	24
					Chann	nel Cop	ýy			28	29	30	31	32
										36	37	38	39	40
		1	2	3	4	5	6	7	8	44	45	46	47	48
		9	10	011	12	13	14	15	16	52	53	54	55	56
	Channel: 1	□ 17 □ 25	18 26	27	20	21	22	23	24 32	60	61	62	63	64
		33	34	35	36	37	38	39	40					
		41	42	43	44	45	46	47	48	1				
		☐ 49 □ 57	50	51	52 60	□ 53 □ 61	□ 54 □ 62	□ 55 □ 63	☐ 56 □ 64	Enable				
		- J/	0.00		00		04		L] 04					
							ОК		Cancel	NO				•
		<u> </u>								Edit				
					A	ction				Edit				
										12				
_														
Live View												Сору	Apply	Back

3.8.4 Alarm Output

3.8.4.1 NVR Alarm Output

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

* .	Event Settings		CPU 2% Memory 22%
		Alarm Output	
Motion Detection	NVR Alarm Output Camera Alarm Output		
Video Loss	Alam Output No. 2	3 4	
1000 2000	Nom Nome		
Alarm Input	Alom Type NO		ž
Alarm Output	Delay St Effective Time: Edit		
	Note:Alarm Name will not be capied into other channels.		
Exception			
VCA			
		52	
Live View			Copy Apply Back

Step 1. Set Alarm output channel, Alarm Name, Alarm Type and Record Channels.



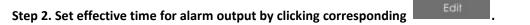
				Alarr	n Output
NVR Alarm Output	Comera Alarm Output				
Alarm Output No.		2	3	4	
Alarm Name					
Alarm Type	NO				•
Delay)	55				

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.

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



The user can set effective schedule as following two ways:

① Select the operation type: Alarm Output 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.



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

3.8.4.2 Camera Alarm Output

Milesight NVRs support the upgrade of Milesight Cameras.

Step 1. Set Alarm output channel, Alarm Name, Alarm Type and Record Channels.

Motion Detection MR Atom Dulput Connect Atom Dulput 1 2 3 4 5 6 7 6 Video Loss P 10 11 12 21 22 23 4 5 6 7 6 10 11 12 14 15 14 15 16 17 16 17 16 17 20 21 22 23 31 21 23 31 21 23 31	<u>۴.</u>	Event Settin	igs						👤 СРИ	2% Mi	emory 22%
$\begin{tabular}{ c c c c c c } \hline Video Lock & Video Loc$	•••				Alarm	Output					
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Motion Detection	NVR Alarm Output	Camera Alarm Output								
Axm input 17 18 17 18 17 20 21 22 23 30				23	2	3	4	5	6	7	8
Absom Input 25 26 27 28 29 30 31 20 Atom Output 33 34 35 36 37 38 37 30 Exception Channel: Name: CM1 47 40 30 31 40 45 46 45 VCA Channel: Name: CM1 47 30 31 50 50 51 52 53 54 55				9	10	-11	12	13	14	15	16
Alom Output 33 34 35 36 37 38 37 4 Alom Output 41 42 43 44 45 46 47 6 Exception Channel: Nome: CM1 57 58 57 61 42 43 41 42 43 41 45 <td></td> <td></td> <td></td> <td>17</td> <td>18</td> <td>19</td> <td></td> <td>21</td> <td>22</td> <td></td> <td>24</td>				17	18	19		21	22		24
Aam Output 41 42 43 44 45 46 47 5 Exception Channet: Name: CMI 57 58 57 60 61 62 63 64 47 65 VCA Channet: Name: CMI 57 58 57 60 61 62 63 64 47 63 VCA Channet: Name: CMI 57 58 57 60 61 62 63 64 67 67 67 67 67 67 67 67 67 67 67				1256.5							32
Administration Adminis				07.42							40
Exception Channel: 1 Name: CAM1 57 58 59 60 61 62 63 VCA. Alarm Culput No. I											48
Aborn Output No. I VCA. Aborn Output No. I Aborn Norme I Aborn Norme I											56
Algem Name Algem Type	Exception	Channel:	1 Name: CAM1	57	50	24	60	0.1	62	6.3	64
Alom Nore Alom Type NC	VCA			Alarm Output	No.		- 1				
				Alarm Name							
Delay Ss						,	NC				
				Delay		1					
Effective Time Edit				Effective Time			Edit				
	Live View								Сору	Apply	Back

Alarm Output No.: The alarm output number of the corresponding channel which has input signal.

Alarm Name: Set a name for the alarm.

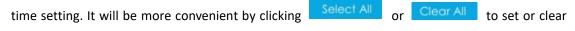
Alarm Type: Choose NO or NC alarm type for the alarm.

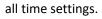
Delay: The output time for alarm. If the output alarm lasts too long, you can select the Manually Clear to stop it.



The user can set effective schedule as following two ways:

1 Select the operation type: Alarm Output or Erase. Then drag a square on the time table for







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

3.8.5 Exception

• Milesight

Step1. Select Exception Type.

₩ .	Event Settings			CPU 1% Memory 22%
			Exception	
Motion Detection	Exception Type	Disk Full		•
Video Loss	Trigger Action			
Alorm Input	Email Linkage NVR Alarm Output 1 2 3 4			
Alarm Output				
Exception				
VCA				
	R			
Live View				Apply Back

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 Action includes Event Notification, Audible Warning, Email Linkage and Alarm Output.

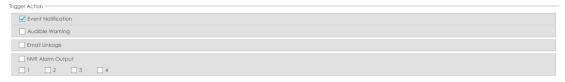
Event Notification: You will got a notification in Live View if an alarm is triggered.

Audible Warning: NVR will trigger an audible beep.

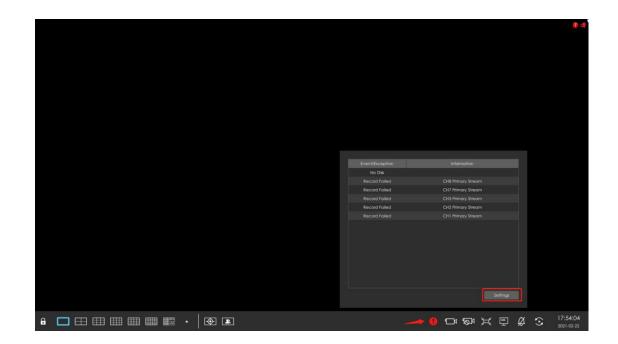
Email Linkage: An alarm Email will be sent if an alarm is triggered.

Trigger Interval: Set the interval to send Emails when detecting Record Failed Event (Only Record Failed Event supports to set trigger interval when sending emails).

Alarm Output: NVR will trigger the corresponding Alarm Output.



The prompt icon will automatically blink in the bottom bar when corresponding event is triggered. And it can be unlocked manually.



3.8.6 VCA

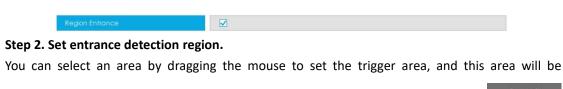
It uses Milesight Video Content Analysis technology which is applied in a wide range of domains including entertainment, health-care, retail, automotive, transport, home automation, safety and security. Milesight VCA provides advanced, accurate smart video analysis for Milesight network cameras. It enhances 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.

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.

<u>م</u> .	Event Settings								🛨 сри[3% Men	nory 27%
•••					VC	A					
Motion Detection	Region Enfrance Re Object Left/Removed	gion Exiting	Advanced Motion	Detection	Tar	mper Detection	Line C	rossing	Loitering	Human	Detection
					2	3	4	5	6	7	8
					10	11	12	13	14	15	16
Exception											
	Channel: 1	Name: CAM1									
	O Minimum Size(1x1-320x240)	3 X 3	Regio	n Entrance							
0	O Maximum Size(1x1-320x240)	320 X 24	40 Sol Re	egion		s	et All	Clear All			
			Objec	t Sizo Limits			Edit	Reset			
			Sansit				_				5
			Effect	ive Time			Edit				
			ACITO	,			ECH				
Live View										Apply	Bock

Step 1. Select channel and enable Region Entrance.

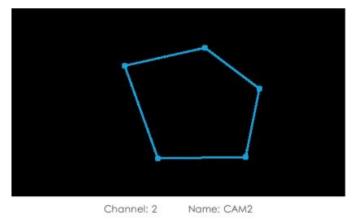


synchronized to camera. Also, you can set or clear all set region by directly clicking

et All



For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



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.

Step 4. Select the Detection Object.

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.

Detection Object	🗹 Human	Vehicle
------------------	---------	---------

Note:

(1) Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

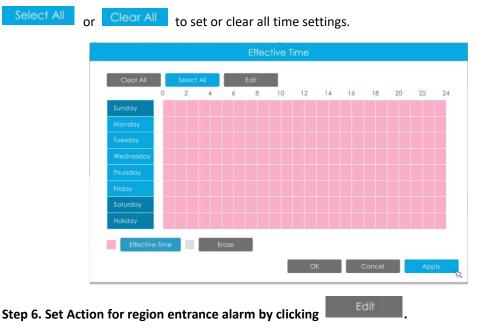
2 Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle



detection object.

Step 5. 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





The user can set effective schedule as following two ways:

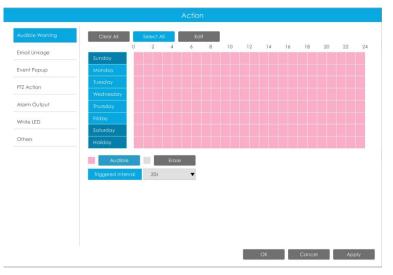
① Select the operation type: Audible or Erase. Then drag a square on the time table for time

Select All setting. It will be more convenient by clicking or to set or clear all time settings.

2 Click

to edit record effective time manually.

Triggered 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:

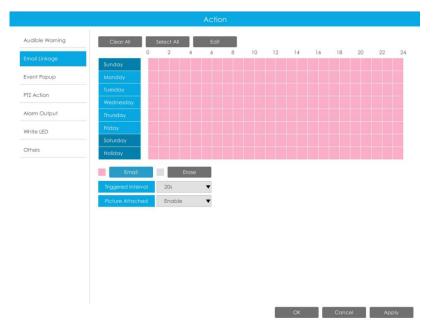
① Select the operation type, Email and Erase. Then drag a square on the time table for time

setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

② Click Edit to edit effective time manually.

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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And 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 Select the operation type, Event Popup 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 to edit effective time manually.

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

					Action	ņ								
Audible Warning	Clear All		Select	All	Ed									
Email Linkage	Sunday	0	2	63	6	8	10	12	14	16	18	20	22	24
Event Popup	Monday													
PTZ Action	Tuesday													
Alarm Output	Wednesday Thursday													
White LED	Friday													
Others	Saturday Holiday													
	Event Po	pup		Eras	e									
	Triggered Inte	rval	20s		•									
									OK		Cance		Ap	olv
									OK		Cance	1	Ap	oly

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: PTZ 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

to edit record effective time manually.

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

			A	ction									
Audible Warning	Clear All	Select Al		Edit									
Email Linkage	2	2	4	6	8	10	12	14	16	18	20	22	2
	Sunday												
Event Popup	Monday												
PTZ Action	Tuesday												
FIZ AGION	Wednesday												
Alarm Output	Thursday												
	Friday												
White LED	Saturday												
Others	Holiday												
	PTZ		Erase										
	Triggered Interval	20s		•									
	PTZ Action												
	Channel	Ac	tion Type			No.		Ec	it		Del	ete	
	5					(#/)							
								OK		Cance		Арг	oly
							_						

And you can add PTZ Action by clicking \Box .

Edit





Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

nail Linkage	Alarm Output No		Nome	Edit	Delete
ent Popup	LŦ				
Z Action		Add Alo	irm Output		
arm Output		Alarm Output No.	сн1_1	•	
White LED		Alarm Name	CH1_1		
Others			CH1_2		
			CH2_1		
			CH2_2 CH3_1		
		ОК			
	_		CH4_1		
			CH4_2		
			CH5_1		
			CH5_2	V	

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

1 Select the operation type, White LED 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 to edit effective time manually.

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

Audible Warning	Clear All		Select All	Ec	tit								
Email Linkage	Sunday	0	2 4	6	8	10	12	14	16	18	20	22	24
Event Popup	Monday												
PTZ Action	Tuesday												
	Wednesday Thursday												
Alarm Output	Friday												
White LED	Saturday Holiday												
Others	White LED		Eros										
	Triggered Interv	_	20s	•									
	White LED-	G,	203				ß						
	Channel		Flash Mode		Flash	Time		Edit			Dele	le	
			*										

And you can add White LED by clicking

Flash Time 3 Res	
Flash Time 3 Res	
	eset

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

Audible Warning	Trigger Chan	nels Record						
Addible Hanning								
Email Linkage	V 1	2	3	4	5	6	7	8
Event Popup	9	10	11	12	13	14	15	16
c.o.iii opop	17	18	19	20	21	22	23	24
PTZ Action	25	26	27	28	29	30	31	32
Alarm Output	33	34	35	36	37	38	39	40
ann conpor	41	42	43	44	45	46	47	48
White LED	49	50	51	52	53	54	55	56
Others	57	58	59	60	61	62	63	64
omois	Trigger Chan	nels Snapshot						
	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
	Note: This pa	an's configuratio	n will not be co	and into other	hannels			

Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action. **Step 7. Set Minimum Size and Maximum Size.**



Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Region Entrance will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Region Entrance will take effect.

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.

<u>م</u> .	Event Settings							👤 СРИ	2% Mer	nory 27%
••••				V	CA					
Motion Detection	Region Entrance Region Exiting Object Left/Removed	Advance	ed Motion Detection	1	Tamper Detection	Line	Crossing	Loitering	Humar	Detection
Video Loss			9	2	3	4	5	6	7	8
Alarm Input			9	10	11	12	13	14	15	16
Alarm Output										
Exception										
VCA	Channel: 1 Name: CAM1 O. Minimum Size(1x1-320x240) 3 X	3	Region Exiting		2	1				
	O Maximum Size(1x1-320x240) 320 X	240	Set Region			Set All	Clear All			
			Object Size Limits Sensitivity			Edit	Reset			5
			Effective Time			Edit				
			Action			Edit				
Live View								i i	Apply	Bock

Step 1. Select channel and enable Region Exiting.

Region Exiting

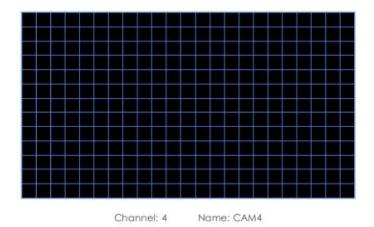
Step 2. Set exit detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be

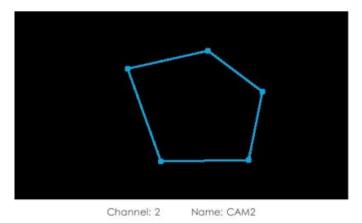
synchronized to camera. Also, you can set or clear all set region by directly clicking

Set All





For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



Step 3. Set Sensitivity.

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



Step 4. Select the Detection Object.

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.

Detection Object	Human	Vehicle
Derection Object	Munun	Venicle

Note:

📀 Milesight

(1) Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

(2) Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

Step 5. Set Effective Time of region exiting by clicking

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

or **Clear All** to set or clear all time settings.



Step 6. Set Action for region exiting alarm by clicking

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 to set or clear all or time settings.

2) Click to edit record effective time manually.

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

	Clear All			di i										
Email Linkage	Sunday	0	2	4	6	8	10	12	14	16	18	20	22	24
Event Popup	Monday													
PTZ Action	Tuesday													
Alarm Output	Wednesday Thursday													
White LED	Friday													
	Saturday													
Others	Holiday													
	Audibl	e		Erase										
	Triggered Inte	rval	20s		•									

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

The user can set effective schedule as following two ways:

 \bigcirc Select the operation type, Email and Erase. Then drag a square on the time table for time



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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

					Actio	n								
udible Warning	Clear All		Select All		Edit									
mail Linkage		0	2	4	6	8	10	12	14	16	18	20	22	24
vent Popup	Sunday Monday													
	Tuesday													
Z Action	Wednesday													
arm Output	Thursday													
nite LED	Friday													
ine LED	Saturday													
hers	Holiday													
	Email	_		Erase										
	Triggered Inter	val	20s		•									
	Picture Attack	ned	Enable	e	•									
								_		_		_		
									OK		Canc	el	Ap	oly

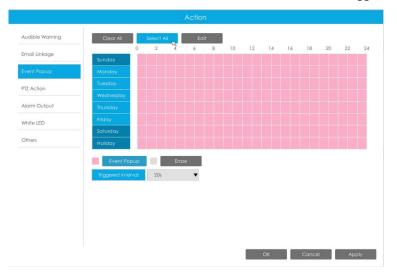
Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And you can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

① Select the operation type, Event Popup 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 to edit effective time manually.

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



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



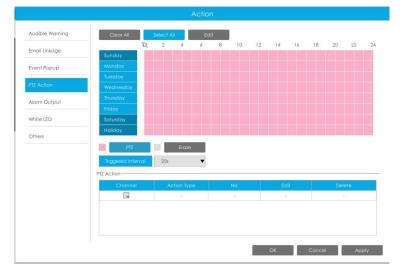
User can set effective schedule as following two ways:

Select the operation type: PTZ 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

to edit record effective time manually.

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



And you can add PTZ Action by clicking 💷 .

Channel	1	
Action Type	Preset	
No.	1	

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

Audible Warning	Trigger Alarm Output				
Email Linkage	Alarm Output No.	Alarm	Name	Edit	Delete
Lindi birkaga	67			17.1	3
Event Popup					
PTZ Action					
Alarm Output			rm Output		
		Alarm Output No.	CH1_1	•	
White LED		Alarm Name	CH1_1	A	
Others			CH1_2		
			CH2_1		
			CH2_2 CH3_1		
		ОК			
			CH4_1		
			CH4_2		
			CH5_1		
			CH5_2	•	

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

Select the operation type, White LED 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 to edit effective time manually.

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

Event Popup Monday Image: Control of the second se	Audible Warning	Clear All				-	14	E .							
Email Linkage Email Linkage Event Popup PIZ Action Monday Useday	/toolbio /raining	and the second s							10			10			
Event Popup Monday Image: Constraint of the sector of the	Email Linkage		,	2	4	0	8	10	12	14	16	18	20	22	
PIZ Action PIZ Action Atom Output PIZ Action Atom Output PIX Action Atom Output PIX Action Atom Output PIX Action Atom Output PIX Action PIX Ac															
PTZ Aclion Wednesday Alam Output Thunday Fiday Saturday Saturday Saturday Holday Saturday White LED Erase White LED Erase Triggered Interval 20s White LED Fradh Mode	Event Popup	and a straight of the second													
Alam Output Alam Output Alam Output Alam Output Friday Fri	PI7 Action														
Adam Output White LED Othes O	TTE ACTION														
White LED Soluriday Holday Ches Control Contro	Alarm Output	and the second sec													
Others Holiday Holiday White LED Fraze Triggered Intervol 20s White LED Flash Mode Flash Time Edit Delete															
Others White LED Eraze Triggered Interval 20s White LED Channel Flash Mode Flash Time Edit Delete	White LED														
White LED Erase Triggered interval 20s White LED Channel Flash Mode Flash Time Edit Delete	Others	Holiday													ļ
White LED		White LED		ι III	Erase										
White LED		Triggered Interval		20s		•									
Channel Flash Mode Flash Time Edit Delete									R						
				Florit	Hede		Flath	Time		Felly			Dele		
				riosi											
		54													

And you can add White LED by clicking 📕.

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

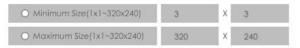
Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

igger Chann	els Record						
						_	
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
igger Chann	els Snapshot						
Al							
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
	225 33 41 49 57 0ger Chann a All y 1 9 17 25 33 33 41 49	17 18 25 26 33 34 41 42 57 58 gger Channet Snopthol A1 2 9 10 17 18 25 26 33 34 43 34 43 42	17 18 19 25 26 27 33 34 35 41 42 50 57 58 59 opper Chonnets Snophol 11 7 18 19 10 1 2 8 9 10 11 17 18 19 25 26 27 33 34 42 44 42 43	17 18 19 20 25 26 27 28 33 44 55 36 41 42 43 44 49 50 51 52 57 58 59 40 gger Channets Napubol 11 12 17 18 19 20 17 18 19 20 25 26 27 28 33 34 35 34 44 50 51 52	17 18 19 20 21 25 24 27 28 29 33 34 35 36 37 41 42 43 44 45 49 50 51 52 53 57 58 59 40 64 38 9 40 64 64 377 58 59 40 64 397 58 59 40 64 300 11 12 13 14 9 10 11 12 13 17 18 19 20 21 25 26 27 28 29 33 34 55 56 37 33 34 35 56 57 33 34 35 56 57	17 18 19 20 21 22 25 26 27 28 29 30 33 34 55 56 37 38 41 42 43 444 46 464 57 58 59 60 61 42 2ger Channets 39 34 10 42 9 10 11 12 13 14 17 18 19 20 21 22 25 26 27 28 29 30 33 34 35 54 34 35 9 10 11 12 13 14 17 18 19 20 21 22 25 26 27 28 29 30 33 34 35 34 35 36 33 34 35 34 35 36 49 50 51 52 53 54 <td>17 18 19 20 21 22 23 25 26 27 28 29 30 31 33 34 55 36 77 58 39 41 42 43 44 45 464 55 57 58 59 60 61 62 63 377 58 59 60 61 64 65 57 58 59 60 61 64 65 37 58 59 60 61 64 65 57 58 59 60 61 64 65 38 79 60 11 12 13 14 15 9 10 11 12 13 14 15 17 18 19 20 21 22 23 25 26 27 28 29 30 31 33 34 35 34 35 34 45<</td>	17 18 19 20 21 22 23 25 26 27 28 29 30 31 33 34 55 36 77 58 39 41 42 43 44 45 464 55 57 58 59 60 61 62 63 377 58 59 60 61 64 65 57 58 59 60 61 64 65 37 58 59 60 61 64 65 57 58 59 60 61 64 65 38 79 60 11 12 13 14 15 9 10 11 12 13 14 15 17 18 19 20 21 22 23 25 26 27 28 29 30 31 33 34 35 34 35 34 45<

Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action. **Step 7. Set Minimum Size and Maximum Size.**



Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Region Exiting will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Region Exiting will take effect.

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.

<u>م</u> .	Event Settings			Left CPU 2% Memory 27%
•••		VCA		
Motion Detection	Region Entrance Region Exiting Advan	nced Motion Detection Tamper Detection	Line Crossing	Loitering Human Detection
		1 2 3 9 10 11	4 5	6 7 8
		Y 10 1)	12 13	14 13 10
Alarm Output				
Exception				
	Channel: 1 Name: CAM1			
	Q Minimum Size(1x1-320x240) 3 X 3	Advanced Motion Detection		
	O Maximum Size(1x1-320x240) 320 X 240	Set Region	Set All Clear All	
		Object Size Limits	Edit Reset	
		Sensitivity		6
			Off	
		Effective Time Action	Edit	
				Apply Back

Step 1. Select channel and enable Advanced Motion Detection.

Step 2. Set advanced motion detection region.

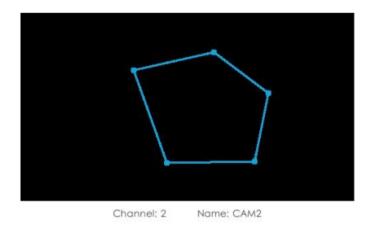
You can select an area by dragging the mouse to set the trigger area, and this area will be

synchronized to camera. Also, you can set or clear all set region by directly clicking

Set All



For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



Step 3. Set Sensitivity.

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

Step 4. Select the Detection Object.

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.

Detection Object	V Human	Vehicle

Note:

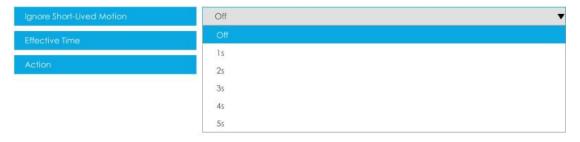
O Milesight

(1) Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

(2) Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

Step 5. Set Ignore Short-Lived Motion.

The motion within the set time will be ignored and won't trigger the alarm, making the detection more accurate and efficient.



Note:

Make sure your camera's version is 4X.7.0.77 or above.

Step 6. 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.



Step 7. Set Action for advanced motion detection alarm by clicking

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 Select All or Clear All to set or clear all time settings.

② Click Edit to edit record effective time manually.

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

Audible Waming Clear All Edit 0 2 4 6 8 10 12 14 16 18 20 22 24 Email Linkage 0 2 4 6 8 10 12 14 16 18 20 22 24 Sunday 0 2 4 6 8 10 12 14 16 18 20 22 24 Sunday 0 <td< th=""><th></th><th></th><th></th><th></th><th></th><th>Actio</th><th>n</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>						Actio	n								
Email Linkage Sunday Event Popup Manday PTZ Action Tuesday Wedneiday Manday Alam Output Thusday Friday Solunday Others Holday	Audible Warning	Clear All			ll -	Ed	-								
PIZ Action PIZ Action Vednexday Adam Output Adam Output Thundoy Vednexday Ve	Email Linkage		0	2	4	6	8	10	12	14	16	18	20	22	24
PIZ Action Vednesday Alarm Culput thusday thusday Vednesday Vednes	Event Popup	Monday													
Alam Output Thussday While LED Friday Saturday Saturday Others Holiday	PTZ Action														
Ofhers Saturday Holiday Audible Erase	Alarm Output														
Ofhers Holday Ease Erase	White LED	Friday													
	Others														
Triggered Interval 20s		Audible	•		Eras	e									
		Triggered Inter	val	20s		•									
									_	OK		Cance	_	App	

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 to edit effective time manually.

Triggered Interval: The effective interval between two actions when event triggered. **Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

					Actio	m								
Audible Warning	Clear All		Select All		Edit									
Email Linkage	Sunday	0	2	4	6	8	10	12	14	16	18	20	22	24
Event Popup	Monday													
PTZ Action	Tuesday													
Alarm Output	Wednesday Thursday													
White LED	Friday													
Others	Saturday Holiday													
	Email			Erase										
	Triggered Inter	val	20s	croso	•									
	Picture Attach	red	Enable	9	•									
								2				el		

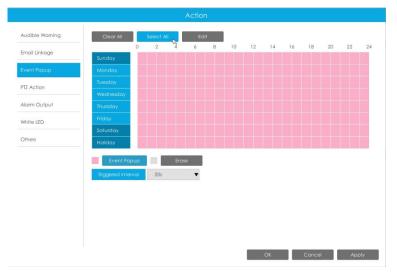
Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And you can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

① Select the operation type, Event Popup 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 to edit effective time manually.

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



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



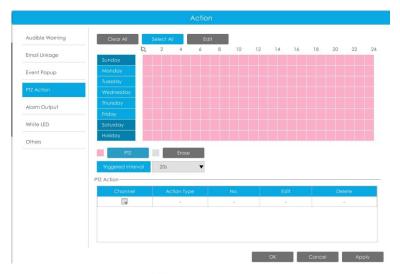
User can set effective schedule as following two ways:

① Select the operation type: PTZ 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

to edit record effective time manually.

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



And you can add PTZ Action by clicking 🖙 .

Channel	1	
Action Type	Preset	
No.	1	

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

Audible Warning	Trigger Alarm Output				
Email Linkage	Alarm Output No.	Alarm N	ame	Edit	Delete
zmali unkage	E			31 I	
Event Popup					
PTZ Action					
Alarm Output		Add Alan	n Output		
	Alam	n Output No.	CH1_1	•	
White LED	Alam	n Name	CH1_1		
Others			CH1_2		
			CH2_1		
			CH2_2 CH3_1		
		ОК	CH3_1 CH3_2		
			CH4_1		
			CH4_2		
			CH5_1		
			CH5_2	v	

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

Select the operation type, White LED 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 to edit effective time manually.

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

C		2 4	6	8	10	12	1.4	16	18	20	22	
Sunday					10			10	10	20		-
Monday												
Tuesday												
Wednesday												
Thursday												
Friday												
Saturday												
Holiday												
White LED	1.0	Erc	350									
			_									
		205	•			13						
				100000								
and the second second			de								6	
D#												
	Tuesday Wednesday Thursday Friday Saturday Holiday White LED	Manday Tuesday Wednesday Fidag Saturday Holiday White LED Trigogread Interval Trigogread Interval	Monday Tuesday Wednesday Thunday Friday Keliday White LED White LED Channel Radh Mon	Monday Tuesday Wednesday Thunday Friday Saturday Holiday While LED Triggered Interval 205 While LED-	Monday Image: Constraint of the second sec	Monday Image: Constraint of the second of	Monday Tuesday Wednesday Munday Friday Holday While LED Erase Monday While LED Erase Monday While LED Channel Plash Mode Plash Time	Wonday Iuesday Luesday Iuesday Wednesday Iuesday Wednesday Iuesday Riday Iuesday Riday Iuesday Holdon Iuesday White LED Eraise Tiggezed Interval 20s White LED Eraise Channel Planh Mode	Manday Tuesday Wadnesday Thunday Friday Kolday While LED Erase Triggered Intervat 20s While LED Channeli Radh Mode Hash Imme Edit	Monday Image: Constraint of the second of	Monday Interstory Tuesday Interstory Wednesday Interstory Windresday Interstory Friday Interstory Kolday Interstory While LED Erase While LED Interstory While LED Interstory Channel Rash Mode Rash Mode Rash Time Edit Deletion	Monday Tuesday Wednesday Wednesday Thunday Friday Safurday Holday While LED Erase While LED Channel Plash Mode Plash Time Edit Delete

And you can add White LED by clicking

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

		A	ction				
00	nels Record						
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
Trigger Chanr	nels Snapshot						
IA I							
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
	58	59	60	61	62	63	64
	 All 9 17 25 33 41 49 57 Tigger Charn All 1 9 17 25 33 41 	1 2 9 10 17 18 25 26 33 34 41 42 49 50 57 58 Trigger Channels Snopholt 8 9 1 2 9 0 71 2 9 0 77 18 255 34 41 42	Image: A and a constraint of a	Image: All and a straight of the straight of th	Image: All and	Image: All im	Image: All and the ansatz of the ansatz o

Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action. **Step 8. Set Minimum Size and Maximum Size.**

O Minimum Size(1x1~320x240)	3	х	3	
O Maximum Size(1x1~320x240)	320	х	240	

Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Advanced Motion Detection will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Advanced Motion Detection will take effect.

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.

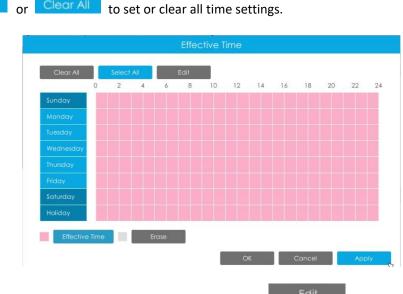
谷 .	Event Settin	gs						L CPU	1% Me	mory 27%
•••				V	CA					
Motion Detection	Region Entrance Object Left/Removed	Region Exiting	Advanced Motion Detection		Tamper Detection	Line C	rossing	Loitering	Humar	Detection
Video Loss			T.	2	3	4	5	6	7	8
Alarm Input			Y	10	ņ	12	13	14	15	16
Alarm Output										
Exception										
VCA	Channel;	I Nome: CAM1	Tamper Detect	ion .	5	7				
			Sensitivity Effective Time		_	Edit		•		δ
			Action			Edit				
Live View								1	Apply	Back

Step 2. Set Sensitivity.

The sensitivity can be configured to detect various movements 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



Step 4. Set Action for tamper detection alarm by clicking

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

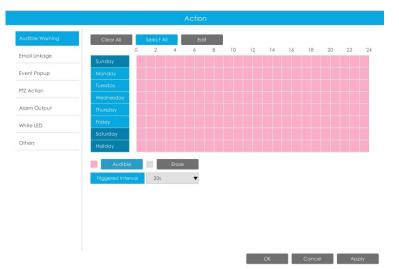
The user can set effective schedule as following two ways:

(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 Select All or Clear All to set or clear all time settings.

② Click Edit to edit record effective time manually.

Triggered 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

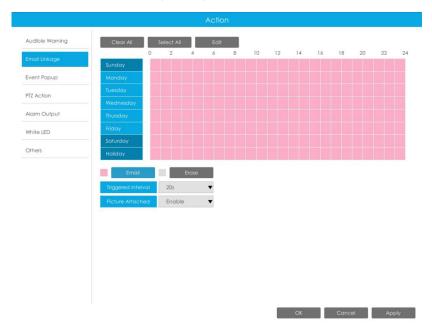
setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

time settings.

② Click Edit to edit effective time manually.

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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



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

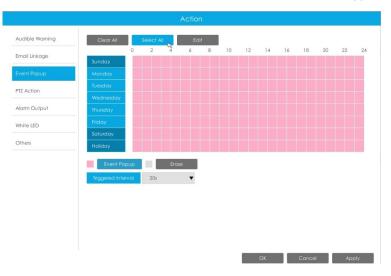
① Select the operation type, Event Popup and Erase. Then drag a square on the time table for

Clear All to set or clear time setting. It will be more convenient by clicking or

all time settings.

2 Click Edit to edit effective time manually.

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



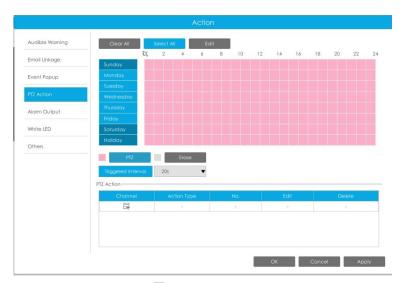
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes Preset and Patrol. User can set effective schedule as following two ways:

(1) Select the operation type: PTZ or Erase. Then drag a square on the time table for time

Clear All to set or clear to set setting. It will be more convenient by clicking or or clear all time settings.

Edit 2) Click to edit record effective time manually.

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



And you can add PTZ Action by clicking \square .

Channel	1	
Action Type	Preset	•
No.	1	

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

Audible Warning	Trigger Alarm Output				
Email Linkage	Alarm Output No.	Alarm	Name	Edit	Delete
Lindi birkaga	EF			17.1	3
Event Popup					
PTZ Action					
Alarm Output			irm Output		
		Nam Output No.	CH1_1	•	
White LED		Narm Name	CH1_1	A	
Others			CH1_2		
			CH2_1		
			CH2_2 CH3_1		
		ОК			
			CH4_1		
			CH4_2		
			CH5_1		
			CH5_2	•	

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

Select the operation type, White LED 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

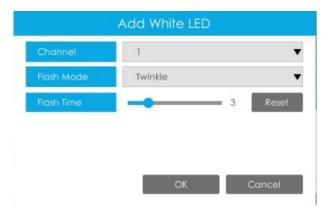
all time settings.

② Click Edit to edit effective time manually.

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

			Ac	tion								
Audible Warning	Clear All	Select Al		Edit								
Email Linkage	0 Sunday	2	4	6 8	8 10	12	14	16	18	20	22	1
Event Popup	Monday											
PTZ Action	Tuesday Wednesday											
Alarm Output	Thursday											
White LED	Friday Saturday											
Others	Holiday											
	White LED		Erase									
	Triggered Interval	20s		•		ß						
	Channel	Flash	Mode	Fl	ash Time		Edit			Delet	е	
	F		8		9							

And you can add White LED by clicking 📕.



Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

			A	ction				
Audible Warning	Trigger Chann	els Record						
a constant and a constant a	IIA 🔳							
Email Linkage	✓ 1	2	3	4	5	6	7	8
Event Popup	9	10	11	12	13	14	15	16
	17	18	19	20	21	22	23	24
PTZ Action	25	26	27	28	29	30	31	32
Alarm Output	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48
White LED	49	50	51	52	53	54	55	56
Others	57	58	59	60	61	62	63	64
	 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
	2							32
	33	34	35	36	37	38	39	40
			35 43	36				
	33	34			37	38	39	40

Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action.

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:

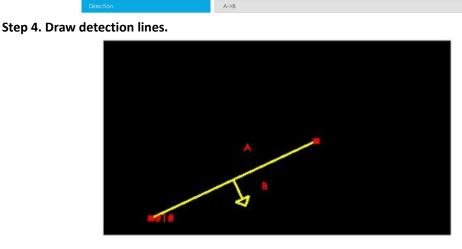
* .	Event Setting	gs							👤 сри	3% Me	emory 27%
					VC	CA					
Motion Detection	Region Entrance Object Left/Removed	Region Exiting	Advanc	ed Motion Detection	To	amper Detection	Line	Crossing	Loitering	Huma	n Defection
Video Loss				T.	2	3	4	5	6	7	8
Alam Input				9	10	11	12	13	14	15	16
Alarm Output											
Exception	Channel: 1	Name: CAM1									
VCA	O Minimum Size(1x1-320x24		3	Line Crossing			0				
	O Maximum Size(1x1-320x2	(40) 320 X	240	Line		1					•
				Direction Draw Line			>B Draw	Clear			•
				Object Size Limits		_	Edit	Resot			
				Sensitivity		- F			•		5
				Effective Time			Edit				
				Action			Edit				
Live View									I	Apply	Back

Step1. Select channel and enable Line Crossing. Step 2. Choose detection line number.

Line Crossing	
Line	1

Step 3. 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.



Channel: 4 Name: CAM4

Note:

Each Line Crossing configuration works separately and do not affect each other.

Step 5. Set Sensitivity.

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

•





Step 6. Select the Detection Object.

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.

Detection Object	Human	Vehicle

Note:

(1) Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

(2) Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

Step 7. 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



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

The user can set effective schedule as following two ways:

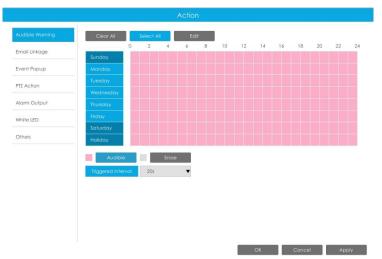
① Select the operation type: Audible or Erase. Then drag a square on the time table for time

setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

2 Click

to edit record effective time manually.

Triggered 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:

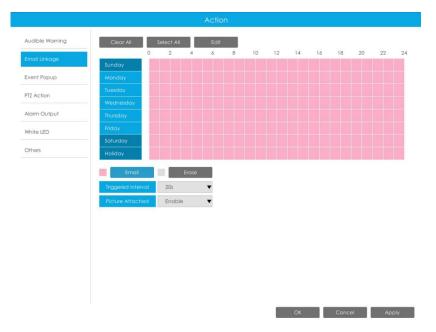
1 Select the operation type, Email and Erase. Then drag a square on the time table for time

setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

② Click Edit to edit effective time manually.

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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



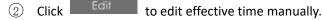
Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And you can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

1 Select the operation type, Event Popup and Erase. Then drag a square on the time table for

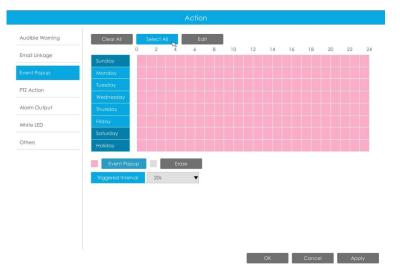


time setting. It will be more convenient by clicking Select All or Clear All to set or clear

all time settings.



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

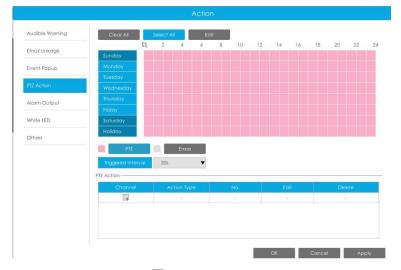


PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** User can set effective schedule as following two ways:

① Select the operation type: PTZ 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 to edit record effective time manually.

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



And you can add PTZ Action by clicking 🛱 .





Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

nail Linkage	Alarm Output No		Nome	Edit	Delete
ent Popup	LŦ				
Z Action		Add Alo	irm Output		
arm Output		Alarm Output No.	сн1_1	•	
White LED		Alarm Name	CH1_1		
Others			CH1_2		
			CH2_1		
			CH2_2 CH3_1		
		ОК			
	_		CH4_1		
			CH4_2		
			CH5_1		
			CH5_2	V	

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

1 Select the operation type, White LED 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 to edit effective time manually.

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

Audible Warning	Clear All		Select All		dit								
Email Linkage	Sunday	0	2 4	6	8	10	12	14	16	18	20	22	24
Event Popup	Monday												
PTZ Action	Tuesday												
	Wednesday Thursday												
Alarm Output	Friday												
White LED	Saturday Holiday												
Others	Wnite LE		Ero	_									
	Triggered Inter	_	20s	150									
	White LED		203				ß						
	Channel		Flash Mod	de	Flash	Time		Edit			Dele	le	
	- F					-							

And you can add White LED by clicking

Channel	1	
Flash Mode	Twinkle	
Flash Time		3 Reset

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

Audible Warning	Trigger Chanr	nels Record						
	IA I							
Email Linkage	1	2	3	4	5	6	7	8
Event Popup	9	10	11	12	13	14	15	16
	17	18	19	20	21	22	23	24
PTZ Action	25	26	27	28	29	30	31	32
Alarm Output	33	34	35	36	37	38	39	40
Addition of the second	41	42	43	44	45	46	47	48
White LED	49	50	51	52	53	54	55	56
Others	57	58	59	60	61	62	63	64
	Trigger Chanr	nels Snapshot						
	IA I							
	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
	Note: This pay	no's configuratio	n will not be co	and into other a	hannak			
	Hore: This pay	ge's conliguratio	in will hol be co	olea eno omer c	and mens.			

Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action. **Step 9. Set Minimum Size and Maximum Size.**



Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Line Crossing will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Line Crossing will take effect.

Loitering

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

* .	Event Settings							生 сри[2% Me	mory 27%
				VC	A					
Motion Detection	Region Entrance Reg Object Left/Removed	jon Exiting Advance	ed Motion Defection	Ta	mper Detection	Line C	Crossing	Loitering	Human	n Detection
Video Loss			9	2 10	3	4	5	6 14	7	8
Alarm Input										
Alarm Output										
Exception	Channel: 1	Nome: CAM1								
VCA	O Minimum Size(1x1~320x240)	3 × 3	Laitering							
	 Maximum Size(1x1~320x240) 	320 X 240	Set Region Object Size Limits			Set All	Clear All Resot			
			Min. Loitering Time	(3-300)	7	Can	RUSSOI			
			Object Size		_		•			30
			Effective Time			Edit				
			Action			Edit				
				6				I	Apply	Back
Step 1. Select chan	nel and enable	Loitering.								
Loitering										

Step 2. Set Loitering detected region.

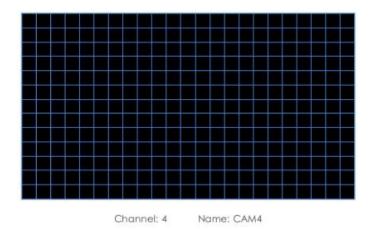
You can select an area by dragging the mouse to set the trigger area, and this area will be

synchronized to camera. Also, you can set or clear all set region by directly clicking

Set All



📀 Milesight



For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



Step 3. Set Min. Loitering Time.

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

Min Loitering Time (3-300s)		
Min, Lonenng Time (a-abus)	1	•

Step 4. Select the Detection Object.

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.



Note:

(1) Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

(2) Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

Step 5. Set Object Size.

Milesight loitering allows to set "Object Size". Only the object bigger than the set size will trigger the alarm.

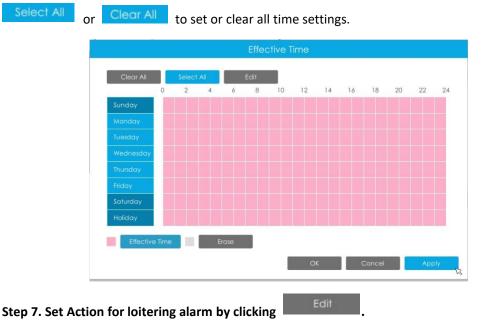
Object Size

30

Step 6. Set Effective Time of loitering by clicking

Edit

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



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

The user can set effective schedule as following two ways:

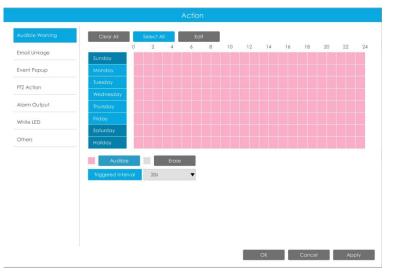
① Select the operation type: Audible or Erase. Then drag a square on the time table for time

setting. It will be more convenient by clicking Select All or Clear All to set or clear all

time settings.

2 Click Edit to edit record effective time manually.

Triggered 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

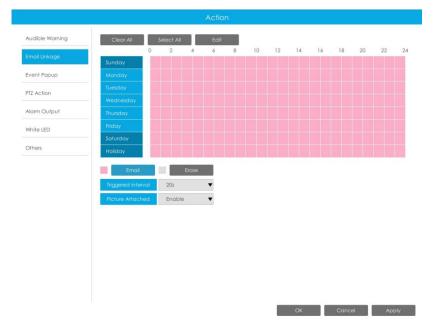


setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

② Click **Click** to edit effective time manually.

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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And 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 Select the operation type, Event Popup 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 to edit effective time manually.

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

Audible Warning	Clear All		Select All	Ec	lit								
Email Linkage		0	2 4	6	8	10	12	14	16	18	20	22	24
Event Popup	Sunday												
	Tuesday												
PTZ Action	Wednesday												
Alarm Output	Thursday												
White LED	Friday												
Others	Saturday Holiday												
	Event Po	pup		ose									
	Triggered Inte	rval	20s	•									

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: PTZ 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

to edit record effective time manually.

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

Audible Warning	Clear All		Select All	Edi	ť								
Email Linkage		R	2 4	6	8	10	12	14	16	18	20	22	2
	Sunday												
Event Popup	Monday												
	Tuesday												
PTZ Action	Wednesday												
Alarm Output	Thursday												
	Friday												
White LED	Saturday												
Others	Holiday												
	PTZ		Erase										
	Triggered Inte	rval	20s	•									
	PTZ Action												
	Channel	é	Action Type	2		No.		Ed	lit		De	ete	
	B												

And you can add PTZ Action by clicking \Box .

Channel	1	
Action Type	Preset	
No.	1	

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

Audible Warning Trigger Alarm Output Email Linkage Alarm Output No. Alarm Name Edit Event Popup E	Delote
Email Linkage	
b¥ a a	
Event Popup	
PIZ Action Add Alarm Output	
Alarm Output Alarm Output No. CH1_1	
White LED Alarm Name CH1_1	
Others	
CH2_1 CH2_2	
CH2_2 CH3_1	
OK CH3_2	
CH4_1	
CH4_2	
CH5_1	
CH5_2	

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

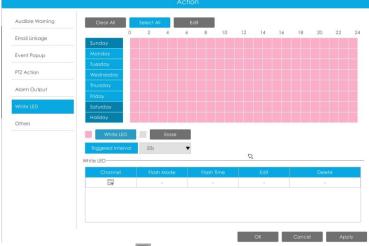
1 Select the operation type, White LED and Erase. Then drag a square on the time table for

time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

an time settings.

② Click Edit to edit effective time manually.

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



And you can add White LED by clicking 🖼.



Channel	1		
Flash Mode	Twinkle		
Flash Time		3	Rese

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

	1							
Audible Warning	Trigger Chanr	nels Record						
Email Linkage	■ AII	2	3	4	5	6	7	8
	9	10		12	13	14	15	16
Event Popup	- 17	18	19	20	21	22	23	24
PTZ Action	25	26	27	20	29	30	31	32
	33	34	35	36	37	30	39	40
Alarm Output		1000						
White LED	41	42	43	44	45	46	47	48
white LED	49	50	51	52	53	54	55	56
	57	58	59	60	61	62	63	64
	Trigger Chanr	nels Snapshot						
	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
	Note: This pay	ge's configuratio	n will not be cop	pied into other o	channels.			

Others: Trigger selected channels to record and snapshot when alarm is triggered.

Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action. **Step 8. Set Minimum Size and Maximum Size.**

O Minimum Size(1x1~320x240)	3	x	3	
O Maximum Size(1x1~320x240)	320	х	240	

Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Loitering will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Loitering will take effect.

Human Detection

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

* .	Event Settings	CPU 21% Memory 27%
	VCA	
Motion Detection	Region Entrance Region Exiting Advanced Motion Detection Tamper Detection Line Crossing Object Left/Removed	Loitering Human Detection
Video Loss	I 2 3 4 5 9 10 11 12 13	6 7 8 14 15 16
Alarm Input		
Alarm Output		
Exception	Channel 1 Name: CAM1	
VCA	Minimum Size/1x1-320i/240) 3 X 3 Human Detection	
	O Maximum Size(1x1-320x240) 320 X 240 Show Tracks	
	Object Size Limits Edit Reset	
	Effective Time Edit Action Edit	
Live View		Apply Back
Step 1. Select chan	nel and enable Human Detection.	
Human Detection		
Step 2. Enable Sho	w Tracks or not.	
Show Tracks		
Step 3. Set Effective	e Time of human detection by clicking	

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



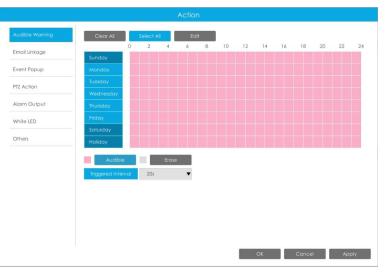
Step 4. Set Action for human detection alarm by clicking

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 Select All or Clear All to set or clear all time settings.

2 Click Edit to edit record effective time manually.



Triggered 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:

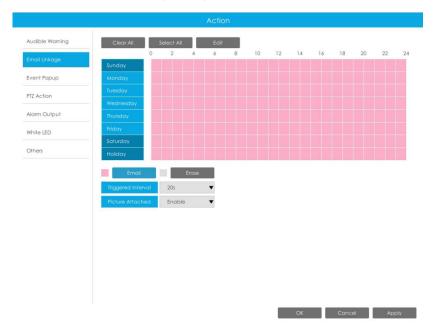
(1) Select the operation type, Email and Erase. Then drag a square on the time table for time

setting. It will be more convenient by clicking to set or clear all or time settings.

2 Click to edit effective time manually.

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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And 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 Select the operation type, Event Popup 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 to edit effective time manually.

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



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: PTZ or Erase. Then drag a square on the time table for time

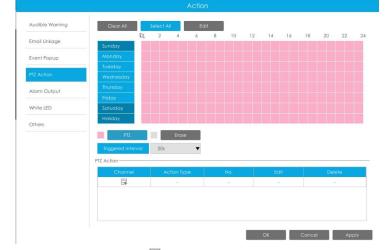
setting. It will be more convenient by clicking Select All or Clear All to set or clear to set

or clear all time settings.

2 Click

to edit record effective time manually.

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



And you can add PTZ Action by clicking 🖙 .

Channel	1	
Action Type	Preset	
No.	1	

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

	Alarm Output No.	74044	Name	Edit	Delete
Email Linkage			Nome	Edil	Delete
Event Popup					
PTZ Action		Add Alo	irm Output		
Alam Output	Ald	im Output No.	сні_і	.	
White LED	Alo	irm Name	CH1_1		
Others			CH1_2		
Uniers			CH2_1		
			CH2_2		
		ОК	CH3_1		
			CH3_2 CH4_1		
			CH4_1 CH4_2		
			CH5_1		
			CH5_2	-	
			-		

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, White LED 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.

all time settings.

② Click Edit to edit effective time manually.

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

Audible Warning	Clear All		Select All	E	dit								
Email Linkage		0	2 4	6	8	10	12	14	16	18	20	22	24
	Sunday												
Event Popup	Monday												
PTZ Action	Tuesday Wednesday												
	Thursday												
Alarm Output	Friday												
	Saturday												
Others	Holiday												
Omers	White LED		Erase										
		_	_										
	Triggered Interv	a)	20s	•			13						
	White LED												_
	Channel		Flash Mode		Flash			Edit				0	
	5		×										

And you can add White LED by clicking

Channel	1	
Flash Mode	Twinkle	
Flash Time		3 Reset

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

			P.	ction				
Audible Warning	Trigger Chann	nels Record						
	IIA 🔳							
Email Linkage	1	2	3	4	5	6	7	8
Event Popup	9	10	11	12	13	14	15	16
	17	18	19	20	21	22	23	24
PTZ Action	25	26	27	28	29	30	31	32
Alarm Output	33	34	35	36	37	38	39	40
- ann oorpor	41	42	43	44	45	46	47	48
White LED	49	50	51	52	53	54	55	56
Others	57	58	59	60	61	62	63	64
Onters	Trigger Chanr	nels Snapshot					-111a	
	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
	Note: This pay	ge's configuratio	n will not be co	pied into other c	hannels.			
						ОК	Cancel	Apply

Step 5. Set Minimum Size and Maximum Size.

O Minimum Size(1x1~320x240)	3	х	3	
O Maximum Size(1x1~320x240)	320	х	240	

Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Human Detection will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Human Detection will take effect.

Note:

1 Make sure you have set correct schedule for record and snapshot before setting the Event Action.

2 Human Detection tab is no longer displayed separately for all AI cameras.

Object Left/Removed

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

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).

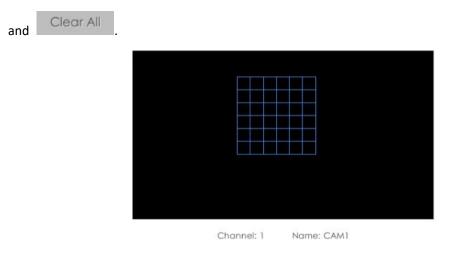
* .	Event Settings						👤 СРИ	1% Me	mory 27%					
		VCA												
Motion Detection	Region Entrance Region Exiting	g Advanced Motion Detection	Ta	mper Detection	Line Cro	ossing	Loitering	Human	Detection					
	Object Left/Removed		2	3	4	5	6	7	8					
		9	10	11	12	13	14	15	16					
Alarm Output														
Exception														
	Channel: 1 Name: CA	AMI												
	Q Minimum Size(1x1~320x240) 3	X 3 Object Left		2										
	O Maximum Size(1x1-320x240) 320	X 240 Object Remove	d			_								
		Set Region Object Size Limit				Clear All Reset								
		Min.Time(10~18)		20	un	Resol								
		Sensitivity		-		_								
		Effective Time		E	dit									
					dit									
		Effective Time												
		Effective Time												

Step 2. Set detection region.

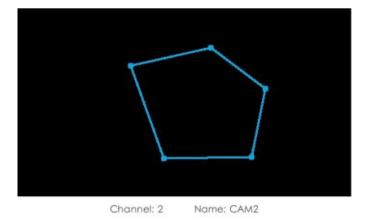
You can select an area by dragging the mouse to set the trigger area, and this area will be

synchronized to camera. Also, you can set or clear all set region by directly clicking

Set All



For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



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.

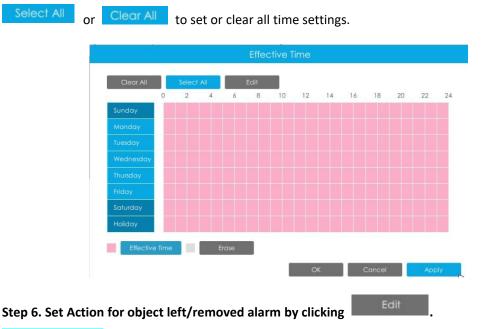


Step 4. Set Sensitivity.

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

Step 5. 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



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 Select All or Clear All to set or clear all time settings.

2 Click

to edit record effective time manually.

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

	*		Act	on								
Audible Warning	Clear All	Select /		Edit								
Email Linkage	Sunday	2	4 6	8	10	12	14	16	18	20	22	24
Event Popup	Monday											
PTZ Action	Tuesday											
Alam Output	Wednesday Thursday											
White LED	Friday											
	Saturday											
Others	Holiday											
	Audible		Erase									
	Triggered Interva	20s	•									
						-	OK		Cance		Ap	alv
						8	OK:		Conce		Ap	51Y

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

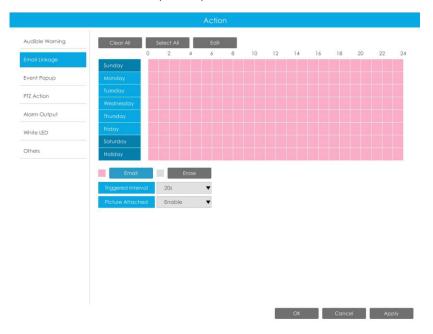
setting. It will be more convenient by clicking Select All or Clear All to set or clear all

time settings.

2 Click to edit effective time manually.

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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



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

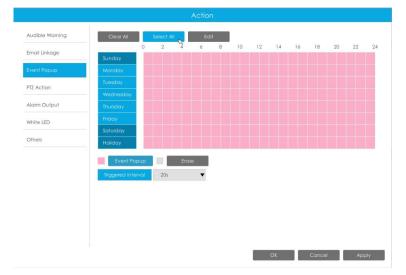
① Select the operation type, Event Popup and Erase. Then drag a square on the time table for

or Clear All to set or clear time setting. It will be more convenient by clicking all time settings.

2 Click Edit

to edit effective time manually.

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



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

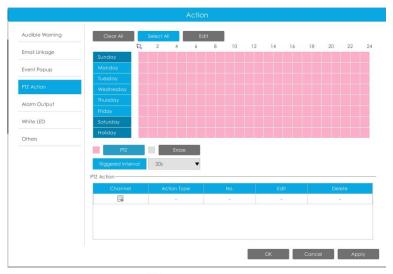
1 Select the operation type: PTZ or Erase. Then drag a square on the time table for time

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

to edit record effective time manually.

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



And you can add PTZ Action by clicking 🔤 .





Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

	t No. Alarm	Name	Edit	Delete
E.			3 c	
_	A 4141 A 14			
		1	_	
	Alarm Name	CH1_2		
-		CH2_1		
	ОК			
-		CH4_1	H	
		CH5_2	*	
	Aarm Oulpu	Add Alo Alarm Output No. Alarm Nome	Add Alarm Output Alarm Output No. CH1_1 Alarm Nome CH1_1 Alarm Nome CH1_1 CH2_1 CH2_1 CH3_1 CH2_2 CH3_1 CH2_2 CH3_1 CH2_2 CH3_2 CH3_1 CH4_2 CH4_1 CH4_2 CH5_1	Add Alarm Output Alarm Output No. CH1_1 Alarm Output No. CH1_1 Alarm Norree CH_2 CH2_1 CH2_1 CH3_1 CH3_1 CH3_1 CH3_2 CH4_1 CH4_2 CH5_1 CH5_1

White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, White LED and Erase. Then drag a square on the time table for

or Clear All to set or clear time setting. It will be more convenient by clicking all time settings.

2) Click Edit to edit effective time manually.

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

Audible Warning	Clear All		Select All	E	dit								
Email Linkage		0	2 4	6	8	10	12	14	16	18	20	22	24
	Sunday												
Event Popup	Monday												
PTZ Action	Tuesday Wednesday												
	Thursday												
Alarm Output	Friday												
	Saturday												
Others	Holiday												
Omers	White LED		Erase										
		_	_										
	Triggered Interv	a)	20s	•			13						
	White LED-												_
	Channel		Flash Mode		Flash			Edit				0	
	5		×										

And you can add White LED by clicking

Channel	1	
Flash Mode	Twinkle	
Flash Time		3 Reset

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

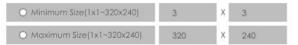
Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

Audible Warning	mggar arran	nels Record						
	IIA 🔳							
Email Linkage	1	2	3	4	5	6	7	8
Event Popup	9	10	11	12	13	14	15	16
	17	18	19	20	21	22	23	24
PTZ Action	25	26	27	28	29	30	31	32
Alarm Output	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48
White LED	49	50	51	52	53	54	55	56
Others	57	58	59	60	61	62	63	64
	Trigger Chann	nels Snapshot						
	IIA 🔳							
	V 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
	Martin This was		n will not be one	pied into other o	hannels			

Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action. **Step 7. Set Minimum Size and Maximum Size.**



Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Object Left/Removed will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Object Left/Removed will take effect.

Settings

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

Note:

For cameras with the firmware version higher than 4X.7.0.78 and the NVRs with firmware version higher than 7X.9.0.12, Settings tab is no longer displayed separately.

Motion Detection	Region Entrance	Region Exifing	Advanced	Motion Detection	Τα	mper Detection	Une	Crossing	Loitering	Hum	an Detection
	People Counting	Object Left/Removed	s	ettings							
				1	2	3	4	5	6	7	8
				9	10	11	12	13	14	15	16
Norm Input				17	18	19	20	21	22	23	24
				25	26	27	28	29	30	31	32
larm Output				33	34	35	36	37	38	39	40
				41	42	43	44	45	46	47	48
xception				49	50	51	52	53	54	55	56
	Channe	I: I Name: CAM1	_	57	58	59	60	61	62	63	64
	1		10	Process FPS			10fps				
	Minimum Size(1x1~320		3	Comero Installat	on		Angle View				
	O Maximum Size (1x1~32	0x240) 320 X	240	Detection Object	Size Settings		Edit	Reset			
					Event		Min.Size	Max.Size	Edi	i.	Reset
					Region Entro	nce	3x3	320x240	Ø		0
					Region Exit		3x3	320x240	Ø		0
					Line Crossi		3x3	320×240	Ø		0
					Loitering		3x3	320x240	Ø		0
					Human Dete		3x3	320×240	Ø		0
			57		People Court bject Left/Re		3x3 3x3	320x240 320x240	Ø		0

Process FPS: Five different periods are available(5, 10, 15, 20, 25 fps) for processing fps. **Camera Installation:** Select camera installation view, including **Angle View, Horizontal View and Overhead View**.

Detection Object Size Settings: Edit the frame size you draw to trigger events. You can set Min. Size and Max. Size for different events separately.

Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for other VCA functions will take effect.

Maximum Size: The Max. Size means the 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.

Note:

📀 Milesight 🛛

Upgrade your device to corresponded firmware version. Camera: V4X.7.0.74 or above. NVR: V7X.9.0.9 or above.

3.9 Settings

3.9.1 General

Date & Time

It is for setting up the Time parameters of NVR, including Time Zone, Daylight Saving Time, Time Setting, Server Address, NTP Sync, Interval, etc.

谷 .	System Settings		CPU 1% Memory 22%
•••		General	
General	Dote & Time Device		
	Current System Time	2021-02-22 23:17:45	
Layout	Time Zone	(UTC-08:00) United States - Pacific Time	
2000 (2 44 C)	Daylight Saving Time	Disable NIP Server	•
Network	Server Address	poolintplotg	
	NTP Sync	Disable	•
Holiday	Interval	1 day	÷
User.			
Access Filter			
Maintenance			
Hot Spare			
		77	
Live View			Apply Back

Server Address: Support to Enter the address of NTP Server manually. NTP Sync: Set the time of NVR to synchronize with the NTP server. Interval: The interval for synchronizing with NTP server can be set.

Device

It is for setting up the general parameters of NVR, including Device Name, HDMI/VGA Resolution, Language, HDMI2/VGA2, HDMI Audio, Audio Out, etc.

Event Popup Duration Time: The display duration time for the alarm popup screen. If users select "Manually Clear", the live view will exit the alarm screen popup status only after manual operation.

Mouse Pointer Speed Level: Adjust the speed of mouse on monitor. From 1 to 7, there are 7 levels to choose. The default level is 5.

Level	Adjusted speed
1	0.2 times the current speed
2	0.3 times the current speed
3	0.5 times the current speed
4	the current speed
5(Default)	2 times the current speed
6	3 times the current speed
7	4 times the current speed

Boot Wizard: Enable it to pop up boot wizard after rebooting.

Boot 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.

Auto Logout: Users will log out automatically when there is no operation within the set time period.

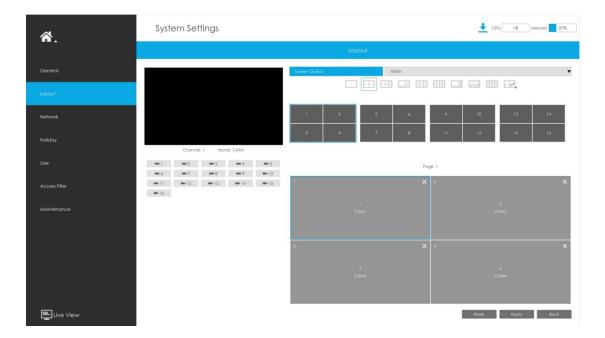
Display When Logout: Set display mode of the live view interface when users log out. There are three options: Regular Mode, Occupancy Mode and Target Mode.

* .	System Settings		L CPU 1% Memory 24%
•••		General	
	Date & Time Device		
	Device Name	NVR	
	HDMI1/VGA1 Resolution	1920 x 1080 / 60Hz	
	HDM/2/VGA2	Disable	
Network	HDMI2/VGA2 Resolution	1920 x 1080 / 60Hz	
	Quick Screen Switch	Disable	
Holiday	HDMI1 Audio	Enable	
	Audio Out	Enable	
User	Event Popup	HDMI1/VGA1	
	Event Popup Duration Time	85	
Access Filter	Occupancy Live View	HDMI1/VGA1	
Access Filler	Mouse Pointer Speed Level	5(Default)	
	Wizord	Start	
	Boot Wizard	Disable	
Hot Spare	Boot Authentication	Enable	
	Menu Authentication	Disable	
	Settings Page Timeout	Disable	
	Auto Logout	Disable	
	Display When Logout	Edit	
	Language	English	
Live View		ß	Apply Back

Note:

Not all NVR supports all the configurations above. For example, only NVR 8000 Series supports HDMI2/VGA2, Event Popup options and switching between the main-screen and sub-screen , which can be controlled by double-click the mouse wheel after enabling Quick Screen Switch function.

3.9.2 Layout



Step 1. Select Screen Output.

You can configure layout for different Screen Output separately to meet the needs of monitoring different scenarios through different Screen Output.

Note:

Only NVR 7000 Series and NVR 8000 Series support this function.

Step 2. Select a layout format.



You can select 1/4/8/9/12/1+11/2+10/16 or Custom Layout. If you choose Custom Layout, please

```
click 🐵 button, then click 💷 button to add a new custom layout. Then drag the screen to
```

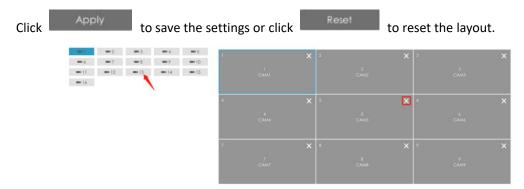
customize the layout, click the button and then click ok to save the custom layout.

	Custom Layout									
Layout Name	Delete	Basic Layout	5x5 🔻			5 C				
Custom Layout 1	B									
B		1				3				
		4		2		5				
		6				7				
		8	9	10	11	12				
		13	14	15	16					
				ОК	Cancel	Apply				

Note:

You can create a custom layout based on a basic layout, and it supports up to 5*5 basic layout. **Step 3. Set desired channels.**

Click 🕅 to close a channel. Select a window and then select a desired channel to add in.



Step 4. Select whether to apply settings of current layout to others.





3.9.3 Network

3.9.3.1 Basic

Working Mode

It supports three working modes of Multi-address, Load Balance and Net Fault-tolerance. For Multi-address mode, you can set LAN1 or LAN2 as the default route according to the needs.

Note:

Only Pro NVR 7000 Series and Pro NVR 8000 Series support this function.

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.

Basic	UPnP	DDNS	Email	P2P		PPPoE	SNMP	More	
LAN									
IPv4 DHCP	Disable			TV6 Mo	de	Manu	ial .		•
IPv4 Address	192.168.7	.111		Pv6 Ad	idress				
IPv4 Subnet Mask	255.255.2	40.0		Pv6 Pte	fix Length				
IPv4 Galeway	192.168.7	л		Pv6 Go	noway				
Preferred DNS Server	192.168.5	.1							
Alternate DNS Server	- A - A - A								
MTU(Byte)	1500								
MAC	1C:C3:16	0A:30:92							
PoE NC IPv4 Address	192.168.2	0.1							

Note:

- 1. Check the DHCP check-box when there is a DHCP server running in the networks.
- 2. Once DHCP is enabled, DNS will change accordingly.
- 3. The valid range of MTU is 1200~1500.
- 4. Do not input an IP address conflicting with another device.
- 5. Working mode option is only for NVR 7000/8000 Series. Internal NIC IPv4 Address is only for PoE NVR Series.



3.9.3.2 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**.

DDNS	Email Milesight Cloud	PPPoE	SNMP More
Disable			
Auto			
Edit	External Part	Internal Port	Status
R	21202	80	Invalid
ß		554	Involid
	Disable Auto Edit	Deable Auto Edit Edit 21202	Disable Auto Edit External Port Internal Port Image: Control of the state of the

3.9.3.3 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:

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

Basic	UPnP	DDNS	Email	Milesight Cloud	PPPoE	SNMP	More	
DONS		Disable						•
Provider	ddnsmilesight.com							•
External HTTP Port		80						
External RTSP Port		554						
DDNS URL		http://ddns.milesight.com/QAE8D2						
DDNS Status		Not Running						

3.9.3.4 Email

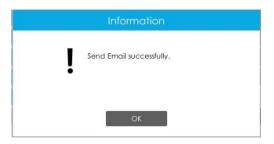
A screenshot will be sent to the receivers when alarm is triggered.

			Network			
Basic UPnP	DDNS	Email	Milesight Cloud	PPPoE	SNMP	More
Emol	Enable					•
User Name	alison@milesight.com					
Password	•••••					
SMTP Server	smtp.gmail.com					
SMTP Port	465					
Sender Email Address	alison@gmail.com					
Receiver Email Address 1	alison@163.com					
Receiver Email Address 2						
Receiver Email Address 3						
Encryption	🗆 TLS 🗹 SSL					
Host Name	http://					

Enable Email selection and then begin configuration.
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.

3.9.3.5 Milesight Cloud

You can add the devices to M-sight Pro app via Milesight Cloud, which can bind the devices with the cloud accounts. You can log into the cloud account directly on the APP, no need to add devices repeatedly.

Click "Enable" and "Apply" to enable Milesight Cloud.

After enabling, you can add the NVR on the APP M-Sight Pro for live view via scanning the QR code on Milesight Cloud page directly, or inputting the register code manually.



Apply Bock



If you enable Milesight Cloud function, the P2P function will be enabled automatically. **Note:**

- 1. Please make sure that NVR is available for internet before enabling.
- 2. Please make sure your NVR version is V7X.9.0.12 or above, and the APP version is V3.1.0.5 or above.

3.9.3.6 PPPoE

PPPoE combines PPP protocol with Ethernet, by which Ethernet hosts can connect to a remote access concentrator via a simple bridging device.

Basic	UPnP	DDNS	Email	Milesight Cloud	PPPoE	SNMP	More
PPPoE		Disable					
Dynamic IP		0. 0. 0. 0					
User Name	2						
Password							
Confirm Password							
Note: If both UPnP and	PPPoE are enabled, onl	y PPPoE will take effect.					

Note:

If both UPnP and PPPoE are enabled, only PPPoE will take effect.

3.9.3.7 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	Milesight Cloud	PPPOE	SNMP	More	
SNMP V1		Disable						•
SNMP V2c		Disable						•
Read Community		public						
Write Community		private						
SNMP V3		Disable						,
Read Security Nam	e							
Level of Security		no auth, no priv						•
Write Security Name								
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) 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) priv)

SNMP Port: The default of the SNMP port is 161.

3.9.3.8 More

				Network				
Basic	UPnP	DDNS	Email	Milesight Cloud	PPPoE	SNMP	More	
SSH		Enable						•
SSH Port		22						
HTTP Port		80						
HTTPS Port		443						
RTSP Port		554						
Push Message		Enable						•
Push Stream Type		Auto						•
Push Message Setting	۶.	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.
- 3. The RTSP format of Milesight NVR is "rtsp://IP:RTSP port/ch_xxx".
- ① IP: The IP address of NVR;
- 2 RTSP port: The default RTSP port is 554;

③ ch_xxx: The first number of xxx represents stream type, 1 for main stream and 4 for sub stream. The last two represents channel number, which start from '00' ('00' means channel 1). Take 'rtsp://192.168.8.179:554/ch_402' as an example:

The IP address of NVR is 192.168.8.179.

The RTSP port is 554.

The stream type is sub stream and the channel number is 3.

Push Message

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

Push Stream Type

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.

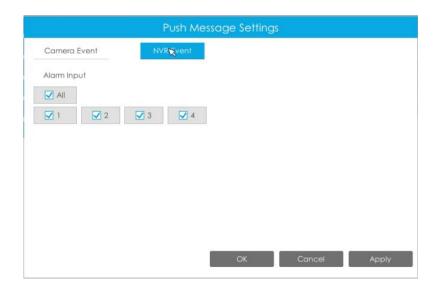
Push Message Settings

① Camera Event

Comera Event	NVR Event	
Channel	1	
Push Event Type	All	
	Motion Detection	Video Loss
	Region Entrance	Region Exiting
	Advanced Motion Detection	Tamper Detection
	✓ Line Crossing	Loitering
	Human Detection	Object Left/Removed
	 Alarm Input 1 2 	ANPR 💫

Select Push Event Type which will be pushed to APP M-sight Pro. There are different Push Event Types for every channel to choose, which means every camera added in this NVR can choose what Event Type it wants to push, like Motion Detection, Video Loss, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering Human Detection, Object Left/Removed, Alarm Input and ANPR(Only for MS-NXXXX-XXT/H).

2 NVR Event



Select channels which you want to push the Alarm Input Event of NVR.

Note:

There would not have NVR Event interface if your NVR doesn't have alarm input interface.

3.9.4 Holiday

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

ñ.						
				Holiday		
Seneral	ID ID	Holiday Name	Status	Start Date	End Date	Edit
	1	Holiday	Disable	1-1	1-1	N.
	2	Holiday	Disable	1-1	1-1	ß
	3	Holiday	Disable	1-1	1-1	ß
	- 4	Holiday	Disable	1-1	1-1	ß
	5	Holiday	Disable	1-1	1-1	Ø
etwork	6	Holiday	Disable	1-1	1-1	ß
	7	Holiday	Disable	1-1	1-1	ď
	8	Holiday	Disable	1-1	1-1	ß
	9	Holiday	Disable	1-1	1-1	Ø
	10	Holiday	Disable	1-1	1-1	ß
	11	Holiday	Disable	1-1	1-1	ß
	12	Holiday	Disable	1-1	1-1	ß
ccess Filter	13	Holiday	Disable	1-1	1-1	Ø
ccess Filler	14	Holiday	Disable	1-1	1-1	ß
	15	Holiday	Disable	1-1	1-1	ß
aintenance	16	Holiday	Disable	1-1	1-1	ß
	17	Holiday	Disable	141	1-1	Ø
	18	Holiday	Disable	1-1	1-1	ß
ot Spare	19	Holiday	Disable	1-1	1-1	Ľ
	20	Holiday	Disable	1+1	1-1	ß
	21	Holiday	Disable	141	141	ß
	22	Holiday	Disable	1-1	1-1	ß
	23	Holiday	Disable	1-1	1-1	ß
	24	Holiday	Disable	1-1	1-1	ß
	25	Holiday	Disoble	14	1-1	ß
	26	Holiday	Disable	1-1	1-1	ß
	27	Holiday	Disable	1-1	1-1	ß

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

End Date. Then click

to save the configuration.

Holiday Name	Holiday		
Holiday	Enable		
Style	By Month		
Start Date	January	▼ 1	
End Date	February	v 1	

3.9.5 User

ጽ .	System Setting	gs			👤 сри	5% Memory 14%
			Us	er		
General	User	rity Question				
	D					Delete
Layout	1	admin	Admin		D.	
	2	1	Operator	ß	ß	盲
	3	pp	Operator	Ø	Ø	a
Network						
Holiday						
Holiday						
Access Filter						
Maintenance						
					13	
					1	Add Bock
Live View					1	Back

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 a new user

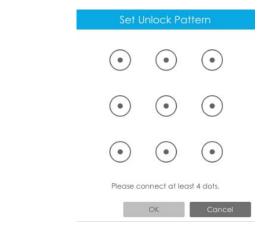
Click Add , then input user information and click ok to add a new user.



Admin Password	******	
User Name	qq	
Password	•••••	
Confirm	•••••	
User Level	Operator	
Unlock Pattern	Enable	
Set Unlock Pattern	Edit	

Note:

- 1. The user name can only contain letters and number. There are two user levels with different authority: Operator and Viewer.
- 2. You can click to set Unlock Pattern after enabling Unlock Pattern.



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 Co	amera Configuration	Basic Permission Camera Configuration
Admin Password		Admin Password
Local Privilege	Remote Privilege	Local Privilege
Al	All	Local Live View All
Camera Management	Camera Management	
PTZ Control	PTZ Control	
PTZ Settings	PTZ Settings	
Audio	Audio	
Two-way Audio	Two-way Audio	
Audio Settings	Audio Settings	Local Playback 🗹 All
Record Settings	Record Settings	
Snapshot Settings	Snapshot Settings	
Disk Management	Disk Management	
Playback	Playback	
Video/Picture Export	Video Export	
Event Settings	Event Settings	Remote Privilege
🗹 Status & Log	🗹 Status & Log	Remote Live View 🛛 🖌 All
General Settings	General Settings	
Network Settings	Network Settings	
Holiday Configuration	Holiday Configuration	
Shutdown/Reboot	Reboot	
Emergency Record	Remote Record	
Snapshot	Remote Snapshot	Remote Playback
Maintenance	Remote Maintenance	
Live View Settings	Retrieve	
Retrieve	Smart Analysis	
Smart Analysis	Access Filter	
Access Filter		

Edit user password

Select a user, when the background color changes into dark gray, click \square to modify password after enabling Change Password. You can also click to set Unlock Pattern after enabling Unlock Pattern.

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

	Edi	it Password	
	Admin Password	•••••	
	User Name	pp	
	User Level	Operator	•
	Change Password	Enable	•
	New Password		
	Confirm		
	Unlock Pattern	Enable	•
	Set Unlock Pattern	Edit	
		OK Cancel	
<mark>Delete user</mark>			
elect a user and click 🔳	to delete a user.		
lodify Security Question			
Input Admin Password, se	lect security questi	on and answer. Click	A

User Secur	ly Question	
Admin Password		
Security Question 1	What's your favorite sport?	•
Security Answer 1		
Security Question 2	What's your lucky number?	•
Security Answer 2		
Security Question 3	What's your favorite calor?	•
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.

3.9.6 Access Filter

Enable Access Filter to restrict or open the access to device address added via IP or MAC.

* .	System Settings			上 сри	2% Memory 23%
			Access Filter		
General	Access Filter	Enable			•
	filler Type	Allow			•
Layout		Address 192.168.7.22		Edit	Delete
Network					
Holiday		73			
User					
Access Filter					
Maintenance					
Hot Spare					
Live View					
				Add Delete	Apply Back
Step 1. Enable Acco	ess Filter.				

Step 2. Select Filter Type.

There are two options: Deny and Allow.

Deny: Only restrict the access to the added device address.

Enable

Allow: Only open the access to the added device address.

Filter Type	Allow
	Deny
	Allow

Step 3. Add Address.

Click to add device address. You can add the address via IP or MAC.

Method 1: Add the address via IP. You can choose the IP address rule according to your needs. There are two rules: Single and Range.

	Add Address
Address Type	IP Address
IP Address Rule	Single
IP Address	14 (A) (A)
	OK Cancel
	Add Address
Address Type	
Address Type IP Address Rule	Add Address

Method 2: Add the address via MAC.

		Add Address
	Address Type	MAC Address
	MAC Address	:::::
		OK Cancel
tep 4. Then click	Apply to ma	ke Access Filter effective.

You can click in the Access Filter interface to edit the corresponding address again.

Address Type	IP Address
IP Address Rule	Single
IP Address	192.168.111.1

Note:

(1) If Access Filter is enabled and Filter type is Allow, but no address is added to the table, then no address is allowed to Access the NVR.

(2) If Access Filter is enabled and Filter type is Deny, but no address is added to the table, then all



addresses are allowed to Access the NVR.

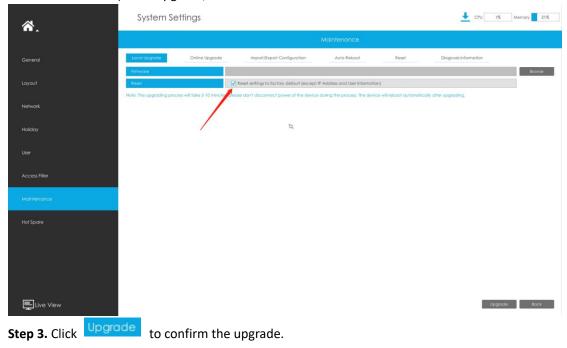
3.9.7 Maintenance

Local Upgrade

Step 1. Click Browse and select the corresponding firmware you downloaded in your USB;

谷 .	System S	ettings				👤 CPU 1%	Memory 21%
				Maintenance			
General	Local Upgrade	Online Upgrade	Import/Export Configuration	Auto Reboot	Reset	Diagnosis Information	
	Firmware Reset		Reset settings to factory default (except	P Address and User Informatic	on)		Browse
Network	Note: The upgrading pro	ocess will take 5-10 minutes, ple	ase don't disconnect power of the device	during the process. The devi	ce will reboot automatic	ally after upgrading.	
Holiday							
						53	
Maintenance							
Hot Spare							
Live View						Upgro	ode Back

Step 2. Check if you need to reset settings to factory default (except IP Address and User Information) after upgrade;



<u>۵.</u>	System Settings 🛓 🕫 📧 🗤	emory 21%
••••	Maintenance	
General	Local Libgrade Import/Export Configuration Auto Reboot Reset Diagnasis Information	
Layout	Firmwore Revel	Browse
Network	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.	
Holiday		
User		
Access Filter		
Maintenance		
Hot Spare		
	a	
Live View	Lograde	Back

Note:

The system will auto reboot after confirming upgrade.

Online Upgrade

Step 1. Click to confirm whether there is a new version;

If there is a new version, the Latest Version column will display corresponding information.

ጽ.	System Setting	S		CPU 1% Memory 219
		Mainte	enance	
General	Local Upgrade Onl	ine Upgrade Import/Export Configuration Au	uto Reboot Reset	Diagnosis Information
	Model	MS-N8064-UH		
	Software Version	71.9.0.11-o7		
	Latest Version	71.9.0.11-07		
Network	Note: The upgrading process will tak	ce 5-10 minutes, please don't disconnect power of the device during the	e process. The device will reboot automatically	after upgrading.
Holiday				
Access Filter				
		5	5	
			~	
Live View				Check Upgrade Back
E Live View				Check Upgrade Back

Step 2. Click Upgrade to confirm the upgrade.



<u>۴.</u>	System Settings	CPU 1% Memory 21%
п.	Maintenance	
General	Local Upgrade Import/Export Configuration Auto Reboot Reset	Diognosis Information
Layout	Addef MS-48054-0H Software Version 71.90.11-o7	
Network	Later Version 21.9.0.11-07 Note: The upgrading process will take 5-10 minutes, please dan't disconnect power of the device during the process. The device will reboot automatically after	r upgrading.
Holiday		
User		
Access Filter		
Maintenance		
Hot Spare		
	<i>b</i>	
Live View		Check Upgrade Back
Note:		
The system will auto	o reboot after confirming upgrade.	
Import/Export Con	figuration	
Import Configuration	on File: Select a .cfg file and then click Restore to	import configuration
	to your NVR.	
	Backup	
Export Configuration	to e	xport configuration to
	USB device.	
8 .	System Settings	CPU 1% Memory 21%
	Maintenance	
General	Import Configuration File	Diagnosis Information
Layout	Configuration Re Export Configuration Re	Browle Restore
Network	Epot Directory	Browse Backup
Holiday		
User		
Access Filter		
Maintenance	D.	
Hat Spare		
Live View		Bock
<mark>Auto Reboot</mark>		

ጽ.	System S	ettings				👤 СРИ 1	% Memory 21%
				Maintenance	e		
General	Local Upgrade	Online Upgrade	Import/Export Configuration	Auto Reboot	Reset	Diagnosis Information	
Layout	Auto Reboot	Disable					•
	Time	00:00:00					\$
Network							
Holiday							
User							
Access Filter							
				53			
Maintenance							
Hot Spare							
Live View							pply Back

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: Adjustable range from 00:00:00 to 23:59:59.

Reset

All parameters ca	n be reset to default settings by clicking Reset.
æ	System Settings 🛃 CPU 1% Memory 21%
A.	Maintenance
General	Local Upgrade Online Upgrade Import/Export Configuration Auto Reboot Result Diagnosis Information
Layout	Produc choose the parameters which you want to keep after reset. Uncheck of to reset the NVE to inactivate default.
Network	Keep The User Information
Holiday	
Holiduy	
User	
Access Filter	
Maintenance	
Hot Spare	B.
Live View	Reset Back
Diagnosis Inform	ation
Click Browse	to select the path to save the diagnosis file on the USB device. And then click

to export the diagnosis file.



<u>۴</u> .	System Se	ettings				CPU 1% Memory 21%
•••				Maintenance		
General	Local Upgrade Export Diagnosis File	Online Upgrade	Import/Export Configuration	Auto Reboot	Reset	Diagnosis Information
Layout	Export Diagnoss File					Browse Backup
Network						
Holiday						/
User						
Access Filter						
Maintenance						
Hat Spare						
					ß	
Live View						Bock
* .	System Se	ettings				CPU 2% Memory 21%
2 (1990) 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990	Local Upgrade	Online Upgrade	Import/Export Configuration	Maintenance Auto Reboot	Roset	Diagnois Information
General	Export Diagnosis File		a/usb1_1/QPP	AGIO REDGOI	Rosoi	biogross momenter
Layout	Export Dognoss nie	Imeda	ayoso i _i / Gerr			Browse Bockup
Network						
Holiday						
User						
Access Filter						
Maintenance			ß			
Hot Spare						

3.9.8 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	•
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.

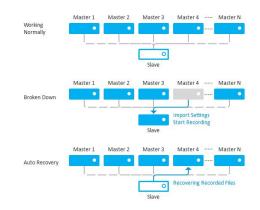
Step 2: Add Master which is up to 32.

Hot Spare											
Hat Spare Ma	de	Slave Mode					٠				
Naster List											
	No.	IP.Adi	dress	MAC A	ddress	Model					
						Refresh ACS					
laster Status						No.000					
No.	IP Address	MAC Address	Model	Connection Status	Working Status	Delete					
1	192.168.40.44	1CC3160A7EF4	MS-N7032-UH	Online	Normal	Î					

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.

3.10 Status

Milesight

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.

3.10.1 Device Information

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

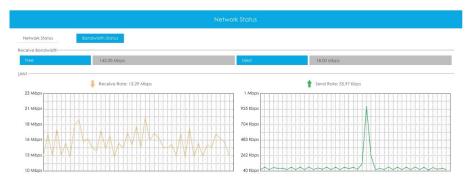
Device Information						
odel	MS-N5008-UPT					
AC Address	1C:C3:160A:43:03					
rdware Version	V1.0					
ftware Version	72.9.0.10-a6					
time	17:02:13 up 6:09					

3.10.2 Network Status

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

	Network Status									
	dwiath Status									
LANI										
Connection	Link is up	Mode	100 Mbps FULL							
Pv4 DHCP	Disable	IPv6 Mode	Manual							
IPv4 Address	192.168.7.111	IPv6 Address								
IPv4 Subriet Mask	255.255.240.0	Pv6 Prefix Length								
Pv4 Galeway	192.168.7.1	Pvé Galeway								
Preferred DNS Server	192.168.5.1	MTU(Byte)	1500							
Attemate DNS Server		MAC	1C:C3:16:0A:30:92							

Bandwidth Status





3.10.3 Camera Status

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

Dhannel Status	PoE Port Status								
Channel	Name	P Addres	Record	Frame Rate	Bit Rate	Frame Size	Status		
1	CAMI	192.168.14,102	On	26 fps	4.13 Mbps	1920x1080	Connected		
2	CAM2	192.168.14.103	Off	25 fps	4,15 Mbps	1920x1080	Connected		
3	CAM3	192.168.14.105	Off	25 fps	3.90 Mbps	2560×640	Connected		
4	CAM4	192.168.7.161	0ff	0 fps	0 bps	0x0	Disconnected		
5									
6									

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

	Car	nera Status	
Channel Status PoE Port St	atus		
PoE Port	IP Address	Current Power Consumption	Status
1			
2			
3			
4			-
5			
6			
7			
8			
Total Power Consumption	ß		
and the second	0.00W		
Remaining Power Consumption	120.00W		
koller:			
The rated power consumption of all PoE p	orts is 120,00W.		
When the total power consumption excer	eds the rated value, the system will close PoE parts in the arc	fer of channel numbers from large to small until the to	tal power is less than the rated power.

3.10.4 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

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	SMART						
D	Athibute Name	Value	Wost	Threshold	Raw Value	Status	
01	Raw_Read_Error_Rate	200	200	51	2	OK	
03	Spin_Up_Time	142	131	21	1866	OK	
04	Start_Stop_Count	1	1	0	516529	OK	- 11
05	Reallocated_Sector_Ct	200	200	140	0	OK	
07	Seek_Error_Rate	100	253	51	0	OK	
09	Power_On_Hours	49	-49	0	37266	OK	
0A.	Spin_Retry_Count	100	100	0	0	OK	×
Port	2						•
Test Process							
Test Type	FAST						•
Temperature("C)	35						
Uptime	37266						
Self-evaluation	PASSED						
All-evaluation	In good conditio	an .					
S.M.A.R.TTest	Test						

3.10.5 Event Status

Camera Event

The user can check Camera Event here, including Video Loss, Motion and I/O. ^A will turn into when the corresponding alarm is triggered.

Comero Event	Alarm	VCA People	Counting						
Channel	Name	IP Address	Video Loss	Motion					
1	CAM1	192.168.7.94	<u>n</u>	<u>n</u>					
2	CAM2	192.168.7.189	<u>n</u>	<u>n</u>					
3	CAM3	192.168.7.223	<u>n</u>	<u>n</u>					
4	CAM4		<u>n</u>	<u>n</u>					
5	CAM5		<u>n</u>	<u>n</u>					
6	CAM6		<u>n</u>	<u>n</u>					
7	CAM7		<u>n</u>	<u>n</u>					
8	CAM8		<u>n</u>	<u>n</u>					

Alarm

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

turn into when the corresponding alarm is triggered. For NVR alarm input or output, the relevant alarm input or output will be firstly listed, such as, 1, 2.etc, as for camera alarm input or output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number.

Device Information	Camera Ev	vent	Alam	VCA	People	a Counting					
	Alarm Input Li	st									
Network Status	No.		Aam Name		NO				Status <u> </u>		
Camera Status	2				NO				<u>n</u>		
Jamera status	3 4				NO				<u>n</u>		
Disk Status	5				NO				<u>n</u>		
Jisk Sildios	6				NO				<u>n</u>		
	7 8				NO				<u>n</u>		
	9				NO				<u>n</u>		
Group Status	10				NO				<u>n</u>		
	Alarm Output	Ust			NO						
Online User	No.		Alarm Name	Alor	rm Type	Delay			Status		
	1				NO	55			<u>n</u>		
.ogs	2				NO	5s 5s			<u>n</u>		
	4				NO	55			<u>n</u>		
	CH1_1				NC	55			<u>n</u>		
	CH1_2 CH2_1				- NC	- 5s			<u>n</u>		
	CH2_1 CH2_2					-			-		
	CH3_1				NC	55			<u>#</u>		
	CH3_2 CH4_1				- NC	- 55			<u>.</u>		
Live View											
A hows the VCA	status. _{Stat}		will turn	into	n wł	nen alar	m is tri	ggered		CPU 1%	Memory
hows the VCA	53V 8		will turn	into	n wł	nen alar Event Sta		ggered		сри 1%	Memory
hows the VCA ሸ.	53V 8	US	will turn	into •				ggered		CPU 1%	Memory
-	Stat Camera Ev Channel 1	Vent Name CAM1	Alarm P Addros 192.168.7.100	VCA Region Entronce <u>A</u>	People Region Exiting	Event Sta a Counting pinced Motion Detec A	tus Tamper Defection <u>A</u>	Une Crossing <u>A</u>	Loitering A	uman Détectic <u>A</u>	Object Lett/Remov 묘
hows the VCA	Stat Camera Ev Channel 1 2	Vent Name CAM1 CAM2	Alarm P Addros 192.168.7.100 192.168.14.102	VCA Region Entrance <u>A</u>	People Region Exiting 	Event Sta counting proced Mation Detect #	Tamper Defection	Line Crossing <u>A</u>	Lottering <u> a</u>	uman Detectic <u>B</u>	Object Leti/Remov 프 프
hows the VCA	Stat Camera Ev Channel 1	Vent Name CAM1	Alarm P Addros 192.168.7.100	VCA Region Entronce <u>A</u>	People Region Exiting	Event Sta a Counting pinced Motion Detec A	tus Tamper Defection <u>A</u>	Une Crossing <u>A</u>	Loitering A	uman Détectic <u>A</u>	Object Lett/Remov 묘
hows the VCA	Stat Carrero Eve Charriero 1 2 3 4 5	Vent Karne CAM1 CAM2 CAM3 CAM4 CAM5	Alarm P Address 192.168.7.100 192.168.14.102 192.168.10.18 192.168.10.18	VCA Region Entrance A A A A A	People Region Exiting P P P P P P P	Event Sto counting proced Motion Detect <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	Tomper Defection <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Line Crossing <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Lottering A A A A A A A A A A A A A A A A A A A	Iman Detection	Object Leti/Remov 프 프 프 프
hows the VCA	Camea Ev Charter 1 2 3 4 5 5 6	rent CAM1 CAM2 CAM3 CAM4 CAM5 CAM6	Alarm 192168.7.100 192168.7.101 192168.7.104 192168.11.8 192168.12.105 192168.12.105 192168.9.211	VCA Region Entrance <u>n</u> <u>n</u> <u>n</u> <u>n</u> <u>n</u> <u>n</u>	People Region Exiting A A A A A A A A A A A A A A A A A A A	Event Stores	Tamper Detection A A A A A A A A A A A A A A A A A A A	Line Crossing <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Lottering <u>n</u> <u>n</u> <u>n</u> <u>n</u> <u>n</u> <u>n</u>	Iman Detection	Object Lett/Remov 프 프 프 프 프 프
hows the VCA	Stat Carrero Eve Charriero 1 2 3 4 5	Vent Karne CAM1 CAM2 CAM3 CAM4 CAM5	Alarm P Address 192.168.7.100 192.168.14.102 192.168.10.18 192.168.10.18	VCA Region Entrance A A A A A	People Region Exiting P P P P P P P	Event Sto counting proced Motion Detect <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	Tomper Defection <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Line Crossing <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Lottering A A A A A A A A A A A A A A A A A A A	Iman Detection	Object Leti/Remov 프 프 프 프
hows the VCA	Comeo Ev Chartel 1 2 3 4 5 6 6 7 7 8 9	Vent Karne CAM1 CAM1 CAM2 CAM3 CAM6 CAM6 CAM6 CAM6 CAM7	Alarm 192.462.1cm 192.168.7.100 192.168.14.102 192.168.14.105 192.168.14.105 192.168.14.105 192.168.123 192.168.14.105	VCA Region Entronos a a a a a a a a a a a a a a a a a a a	People Region Driling A A A A A A A A A A A	Event Sto counting accord Motion Detect a a a a a a a a a a a a a a a a a a a	Tamper Defection A A A A A A A A A A A A A	Line Crossing <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u>	Labering a a a a a a a a a a a a a	Iman Detection	Object Lell/Remov <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u>
hows the VCA	Carrero Ev Channer 1 2 3 4 5 6 7 7 8 9 10	Norme CAM1 CAM2 CAM3 CAM4 CAM5 CAM6 CAM7 CAM8 CAM9 CAM10	Alarm P Adores 192.168.7.100 192.168.7.101 192.168.7.101 192.168.14.102 192.168.41.105 192.168.41.105 192.168.14.105	VCA Region Entonce B B B B B B B B B B B B B B B B B B B	People Region Entry A A A A A A A A A A A A A A A A A A A	Event Sto counting a a a a a a a a a a a a a a a a a a a	Tomper Detection <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Иле Сокир <u>В</u> <u>В</u> <u>В</u> <u>В</u> <u>В</u> <u>В</u> <u>В</u> <u>В</u> <u>В</u> <u>В</u>	Lotering a a a a a a a a a a a a a	uman Detection	Diject Lett/Remov A A A A A A A A A A A A A A A A A A A
hows the VCA	Comeo Ev Chartel 1 2 3 4 5 6 6 7 7 8 9	Vent Karne CAM1 CAM1 CAM2 CAM3 CAM6 CAM6 CAM6 CAM6 CAM7	Alarm 192.462.1cm 192.168.7.100 192.168.14.102 192.168.14.105 192.168.14.105 192.168.14.105 192.168.123 192.168.14.105	VCA Region Entronos a a a a a a a a a a a a a a a a a a a	People Region Driling A A A A A A A A A A A	Event Sto counting accord Motion Detect a a a a a a a a a a a a a a a a a a a	Tamper Defection A A A A A A A A A A A A A	Line Crossing <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u>	Labering a a a a a a a a a a a a a	Iman Detection	Object Lell/Romee <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u>
hows the VCA	Converte Eve Chonner 1 2 3 4 5 6 7 7 8 9 9 10 11 11 12 13	Vent CAM1 CAM2 CAM3 CAM4 CAM5 CAM6 CAM7 CAM6 CAM7 CAM8 CAM9 CAM10 CAM10 CAM11 CAM11 CAM12 CAM13	Alam P.Addens 192:168.7100 192:168.14.102 192:168.7104 192:168.7104 192:168.14.105 192:168.14.105 192:168.14.105 192:168.14.105	VCA Region Enhance B B B B B B B B B B B B B B B B B B B	People Region Entroy B B B B B B B B B B B B B B B B B B B	Event Sto counting proced Matter betreet a a a a a a a a a a a a a a a a a a	Tancer Colocion A A A A A A A A A A A A A A			mon Defectiv <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	
hows the VCA	Stat Camera Ev Channel 1 2 3 4 5 6 6 7 7 8 9 7 10 10 11 11 12 13 14	Vent Колте САМ1 САМ2 САМ3 САМ4 САМ5 САМ4 САМ5 САМ6 САМ6 САМ6 САМ6 САМ10 САМ10 САМ11 САМ11 САМ11 САМ11 САМ11	Alarm P.Addres 192:168.7100 192:168.7104 192:168.7104 192:168.7014 192:168.7014 192:168.201 192:168.201 192:168.14.105 192:168.14.105 192:168.14.105 192:168.14.105 192:168.7119	VCA Region Enhonce 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	People Region Saling 	Event Sto counting protect Mation Dates A A A A A A A A A A A A A A A A A A A	Tongel Delector <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Line County <u>n</u> <u>n</u> <u>n</u> <u>n</u> <u>n</u> <u>n</u> <u>n</u> <u>n</u>		-man Detection <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	
hows the VCA	Converte Eve Chonner 1 2 3 4 5 6 7 7 8 9 9 10 11 11 12 13	Vent CAM1 CAM2 CAM3 CAM4 CAM5 CAM6 CAM7 CAM6 CAM7 CAM8 CAM9 CAM10 CAM10 CAM11 CAM11 CAM12 CAM13	Alam P.Addens 192:168.7100 192:168.14.102 192:168.7104 192:168.7104 192:168.14.105 192:168.14.105 192:168.14.105 192:168.14.105	VCA Region Enhance B B B B B B B B B B B B B B B B B B B	People Region Entroy B B B B B B B B B B B B B B B B B B B	Event Sto counting proced Matter betreet a a a a a a a a a a a a a a a a a a	Tancer Colocion A A A A A A A A A A A A A A			mon Defectiv <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	
hows the VCA	Stat Connece Ex Channel 1 2 3 4 5 6 6 7 7 8 9 9 10 10 11 11 12 13 14 15 16 16 12	VUS Колто САА1 САА3 САА4 САА5 САА4 САА5 САА6 САА7 САА7 САА6 САА7 САА7 САА7 САА6 САА7	Alarm P.A.Dros 192.168.7100 192.168.7104 192.168.7104 192.168.7104 192.168.7104 192.168.7104 192.168.7211 192.168.7211 192.168.7211 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.168.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.169.7119 192.17119 192.17119 192.17119 192.17119 192.17119 192.17119	VCA Region Enhonce 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	People 86900 Earley 9 9 9 9 9 9 9 9 9 9 9 9 9	Event Sto coming proced Motion Dates a a a a a a a a a a a a a a a a a a a	torget Balactor <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Line County <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>		Inco Detection	
hows the VCA	Stat Carrero Ev Carrero Ev Carrer	VS Колла САМЗ САМЗ САМЗ САМЗ САМЗ САМ3 САМ3 САМ3 САМ10 САМ10 САМ11 САМ13 САМ14 САМ13 САМ14 САМ16 САМ16	Albim P.Adshos 192.1687.100 192.1687.104 192.168.14.102 192.168.14.105 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.158 192.168.158 192.168.158 192.168.158 193.168.158 193.168.158 193.168.158 193.168.158 193.168.158 193.168.158 193.168.158.158 193.168.158.158 193.168.158.158 193.158.158.	VCA Region Enhance A A A A A A A A A A A A A A A A A A A	People 0	Event Sto	Songer Datecton <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	Une Costing <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>		Incon Detected <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	
hows the VCA	Stat Convector 1 2 3 4 5 6 6 7 7 8 9 10 10 11 11 12 13 14 15 16 16 12	VUS Колто САА1 САА3 САА4 САА5 САА4 САА5 САА6 САА7 САА7 САА6 САА7 САА7 САА7 САА6 САА7	Albim P.Adshos 192.1687.100 192.1687.104 192.168.14.102 192.168.14.105 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.158 192.168.158 192.168.158 192.168.158 193.168.158 193.168.158 193.168.158 193.168.158 193.168.158 193.168.158 193.168.158.158 193.168.158.158 193.168.158.158 193.158.158.	VCA Region Enhonce 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	People 86900 Earley 9 9 9 9 9 9 9 9 9 9 9 9 9	Event Sto coming proced Motion Dates a a a a a a a a a a a a a a a a a a a	torget Balactor <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Line County <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>		Inco Detection	
hows the VCA	Stat Carreer EV 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 15 16 17 11 13 14 15 16 17 11 19 20 20 21	VS Колте САМ2 САМ2 САМ3 САМ4 САМ5 САМ6	Albim P.Adshos 192.1687.100 192.1687.104 192.168.14.102 192.168.14.105 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.14.158 192.168.158 192.168.158 192.168.158 192.168.158 193.168.158 193.168.158 193.168.158 193.168.158 193.168.158 193.168.158 193.168.158.158 193.168.158.158 193.168.158.158 193.158.158.	VCA Region Echanole A A A A A A A A A A A A A A A A A A A	People 	Event Sto	Tange Patectan <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	Une Costory <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u>		Incon DateCt/ <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	
hows the VCA	Stat Comea Ex Channel 2 3 4 5 6 7 7 8 9 7 7 8 9 9 10 10 11 11 12 13 14 15 16 17 18 16 17 18 19 20 21 22	Norree CAM1 CAM2 CAM3 CAM4 CAM3 CAM4 CAM6 CAM7 CAM6 CAM11 CAM12 CAM14 CAM15 CAM16 CAM17 CAM18 CAM19 CAM20 CAM21	Alarm P. Address 192.168.7.100 192.168.14.102 192.168.14.102 192.168.14.105 192.171 192.171 192.171 192.171 192.171 192.171 1	VCA Regent Photose <u><u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u></u>	People Report follow	Event Sto	Tongos Colvectos <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Line County <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	L01w/ng _	-mon Catactic <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	
hows the VCA	Stat Convector 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 15 16 15 16 19 20 21 22 22 23	CAM19 CAM19 CAM1 CAM2 CAM2 CAM2 CAM3 CAM6 CAM6 CAM7 CAM8 CAM6 CAM7 CAM10 CAM10 CAM11 CAM11 CAM11 CAM13 CAM14 CAM15 CAM16 CAM16 CAM19 CAM19 CAM20 CAM21 CAM22 CAM22 CAM22 CAM22	Alarm P Adores P 2 168,7100 192,168,7104 192,168,14,102 192,168,14,105 192,168,14,168 192,18,14,105 192,18,14,105 192,18,14,105 192,	VCA Regentationes a a a a a a a a a a a a a a a a a a a	People 0	Event Sto	Tomper Defection A A A A A A A A A A A A A	Uno Costorg <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>		since Datasets? <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	
hows the VCA	Stat Comea Ex Channel 2 3 4 5 6 7 7 8 9 7 7 8 9 9 10 10 11 11 12 13 14 15 16 17 18 16 17 18 19 20 21 22	Norree CAM1 CAM2 CAM3 CAM4 CAM4 CAM4 CAM6 CAM7 CAM6 CAM11 CAM12 CAM14 CAM15 CAM16 CAM17 CAM18 CAM19 CAM20 CAM21	Alarm P. Address 192.168.7.100 192.168.14.102 192.168.14.102 192.168.14.105 192.171 192.171 192.171 192.171 192.171 192.171 1	VCA Regent Photose <u><u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u></u>	People Report follow	Event Sto	Tongos Colvectos <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	Line County <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>	L01w/ng _	-mon Catactic <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>	

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

* .					
Device Information	Camera Event	Alarm	VCA	People Counting	
	Channel	Name	IP Address	In' Count	"Out" Count
Network Status	1	CAM1	192.168.7.100	1077	1061
	2	CAM2	192.168.14.102	0	0
	3	CAM3	192.168.7.104	0	0
	4	CAM4	192.168.10.18	0	0
	5	CAM5	192.168.14.105	0	0
	6	CAM6	192.168.9.211		
Disk Status	7	CAM7	192.168.8.223		
	8	CAM8	192.168.14.105		
	9	CAM9	192.168.14.105		
	10	CAM10	192.168.14.105		
	11	CAM11	192.168.14.105	0	0
Group Status	12	CAM12	192.168.7.119		
	13	CAM13			
	14	CAM14			
Online User	15	CAM15			
	16	CAM16			
	17	CAM17			
rogs	18	CAM18			
	19	CAM19			
	20	CAM20			
	21	CAM21			
	22	CAM22			
	23	CAM23			
	24	CAM24			
	25	CAM25			

3.10.6 Group Status

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

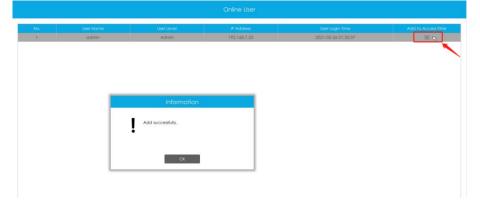
Å .	Status			CPU 2% Memory 21%
••••			Group Status	
Device Information	Sort by Group	Sort by Channel		
	Group	Disk	Channel	
Network Status	1		1.2	
	2	3		
	3			
	4			
	5			
Disk Status	6			
Disk status	7			
	8			
	9			
	10			
	11			
	12			
	13			
Online User	14			
	15			
	16			
Live View				Back
				BOCK

3.10.7 Online Users

Users who are remotely connecting to the NVR in real time can be listed in Online users interface. The list includes User Name, User Level, IP Address and User Login Time.

* .	Status				👱 cru	0% Memory 27%
				Online User		
Device Information	No.	User Name admin	User Level Admin	IP Address 192,168,7,25	User Login Time 2021-06-24 23:04:46	Add to Access Filter
Network Status						U U
Camera Status						
Disk Status						
Event Status						
Group Status						
Online User						
Packet Capture Tool						
Logs						
Live View						Refresh Back

The IP address can be added to Access Filter interface from Online User interface directly.



3.10.8 Packet Capture Tool

Input IP, Port and select a path, then click [Start] to start capture and click [End]to stop. The captured package will be saved in the selected path.

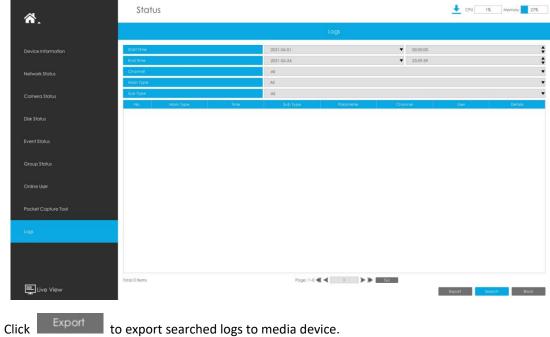




It is recommended to capture packets not more than 3 minutes on the local monitor side.

3.10.9 Logs

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



Device Information	Start Time			2021-02-23			▼ 00:00:00		
	1								
Vetwork Status	Device-		Name	× 1	Size	Туре	Date Modified		
	S Flash E	ick	1		1000000	Folder	2021-02-19 17:06:41		
		34%	CAPP			Folder	2021-02-21 21:58:40	User	Details
Camera Status	Free: 5	.0G, Total: 7.6G	System Volume Informati	on		Folder	2021-02-01 11:53:52	N/A	e
			MSFImage_40.7.0.76-r3		34.6 MB	File	2020-11-10 13:41:46	N/A	2
isk Status			RVR-CH01_520210124-00	0205_E20210124-00	221.1 MB	File	2021-01-24 19:06:54	N/A	Ē
		R NVR-CH01_\$20210124-00	0205_E20210124-00	221.1 M8	File	2021-01-24 19:15:10	N/A	E	
No. 1			NVR-CH03_S20210127-00	3718_E20210127-01	988.4 MB	File	2021-01-27 18:53:24	N/A	2
vent Status			NVR_Counting_Group3_	20210124192516.png	26 KB	File	2021-01-24 19:25:16	N/A	E
			NVR_Counting_Group3_	20210124192527.pdf	312 KB	File	2021-01-24 19:25:26	N/A	8
raup Status			NVR_Counting_Group3_	20210124192532.csv	960 bytes	File	2021-01-24 19:25:32	N/A	Ø
roup sigios			Ist_demo.csv		40 bytes	File	2021-02-18 18:52:18	N/A	E
								N/A	Ø
nline User	Operatio	n						N/A	e
		New Folder						N/A	Ø
-14		Format						N/A	E
i@s								N/A	圕
		Refresh	Directory	/media/usb1_1				N/A	e
				100220120		-		N/A	E
						Expt	ort ҡ Cancel	N/A	8
	18	Exception	2021-02-23 00:23:16	Record Failed		N/A	7	N/A	Ø
	19	Exception	2021-02-23 00:23:16	Record Failed		N/A	6	N/A	Ð
	20	Exception	2021-02-23 00:23:16	Record Failed		N/A	5	N/A	e
	21	Exception	2021-02-23 00:23:16	Record Failed		N/A	4	N/A	開

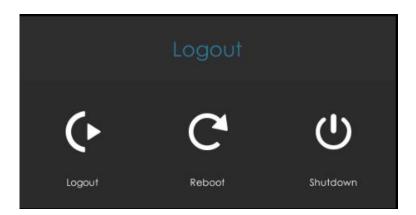
In particular, for the following types of events, the Information about detection object that triggers the event is displayed in the Log Information.

- ① Region Entrance
- $\textcircled{2} \quad \text{Region Exiting} \quad$
- ③ Advanced Motion Detection
- ④ Line Crossing
- ⑤ Loitering

	Details				
Time	2020-10-27 00:37:53				
Туре	Event-Stop Line Crossing Alarm				
Local User	N/A				
Host IP Address	N/A				
Parameter	N/A				
Channel	2				
Log Information					
Channel:2 Stream Type: Primary Stream Detection Object: Human					
	Previous Next Back				

3.11 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.

User Name	admin	
Password		
Confirm		
Language	English	~

Note:

- 1. Password must be 8 to 32 characters long.
- 2. Password must contain at least one number and one letter.
- 3. You can also choose the system language on the activation interface.

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

4.2 Login

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Select Language on the top-right of interface.

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



Note:

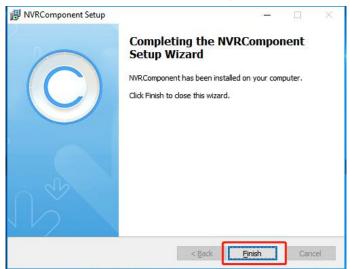
The account will be locked if the password is entered incorrectly for four times.

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.



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.

Basic Settings	>> Video			
Primary Stream	Secondary Stream Ter	iary Stream		
		Video Codec :	H.264	~
		Frame Size :	1080P(1920*1080)	~
		Maximum Frame Rate :	25	✓ fps
		Bit Rate :	4096	✓ kbps
		Smart Stream :	Off	~
		Bit Rate Control :	CBR	\sim
		Profile :	Main	~
		I-frame Interval :	50	frame (1-120)
			Save	

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.

	Local Configuration				
	Plugin Mode	Plugin-free		\sim	
	Primary Stream When Fullscreen				
	Note: Plugin-Free mode only supports H.	264.			
	Save				
If you forget the p	bassword, click 🕜 t	o reset password	(Only the N\	/R firmware	version

xx.9.0.3 or above supports this.).

Please fi	ll in the answers for authentication
Question1:	What's your favorite sport?
Answer1:	
Question2;	What's your lucky number?
Answer2:	
Question3:	What's your favorite food?
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
11	Hide or show secondary menu
Live View	Live view
S Playback	Play back the video
Retrieve	Back Up Files
Smart An	Smart Analysis
Settings	Make settings for Camera, Record, Event and System
Status	Check Device Information, Network Status, Camera Status, Disk Status and Event Status
Logs	Check all operation logs
Logout	Log out NVR

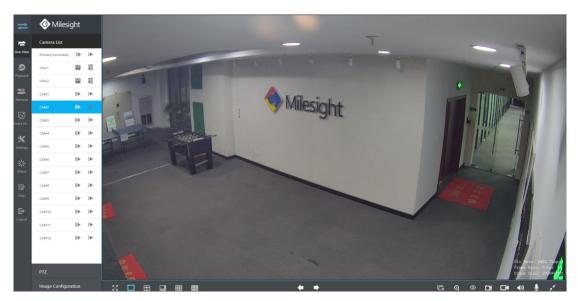
4.4 Live View

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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		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
G	Stop all live view		Start all live view
Ð	Digital zoom	$\odot$	Fisheye Client-side Dewarping

Ĉ2	Snapshot		Record
∢≽	Audio on		Audio off
Ŷ	Two-way Audio	27	Original Image
× ×	Resize Image		

### Fisheye Client-side Dewarping

Click Cliex to enable Client-side Dewarping on the panel that pops up when the selected channel plays successfully. Users can dewarp the original Fisheye view into various modes in the live view interface on demand, including Installation Mode and Display Mode. There are 3 options for Installation Mode: Ceiling, Wall and Flat. And there are 9 options for Display Mode: 10, 1P, 2P, 4R, 103R, 1P1R, 1P4R, 1P6R, and 108R.

Client-side	e Dewarping	×
Enable De	warping	
$\odot$		
Installatio	n Mode	
	1	_
Display M	ode	
•	$\leftrightarrow$	$\stackrel{\leftrightarrow}{\leftrightarrow}$

### Note:

Make sure your NVR model is MS-NXXXX-U(P)H.

### Two-way Audio

Click Low to enable Two-way Audio. You can select to talk with camera or NVR.

1			Two-w NVF CAN		×	1
G	Q	Ď.	€ð	<u>,</u>	<u>ب</u> د	1

#### Note:

1. For NVR that does not support the Audio I/O interface, it only supports to talk with camera through Web page.

- 2. The Two-way Audio only supports one channel talking at one time.
- 3. Two-way Audio and Audio function can not be used together, including Audio of Playback, but



if you are using Two-way Audio on one web page, you can use Audio on another page.

4. The audio interface of NVR can only be used alone. When other devices are talking to NVR, it would indicate that the device is busy if you enable Audio or Two-way Audio of other channels at the same time.

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

Icons	Descriptions
-20-	It indicates video loss
-35	It indicates motion detection alarm
0	It indicates VCA alarm

### 4.4.2 PTZ

For PTZ cameras, you can operate PTZ, Preset, Patrol, Pattern, Lighting for 30s, Lens Initialization and Auxiliary Focus on PTZ page directly.



#### Note:

- 1. Ensure that your camera's version is 4X.7.0.74 or above before you use Lighting for 30s, Lens Initialization, Auxiliary Focus and Fisheye Auto Tracking.
- 2. Fisheye channels also support the PTZ operation, which allows users to adjust the on-board monitoring angle of Fisheye view.

### 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.

ti Dire View Playback	Milesight Playback Type General Playback Stream Type Primary Stream Channel		
Betrieve Ectioner Smart Act.	CH         Name           1         CAM1           2         CAM2           3         CAM3           4         CAM4           5         CAM5	2	Tanj
Statunga Statu Lagoot	6         CAM6           7         CAM7           8         CAM8           9         CAM9           10         CAM10           11         Cam7           12         Cam7           13         M 17           14         14           14         14           15         M 17           12         23           13         24           14         15           15         14           12         23           12         23           13         14           14         3           12         23           12         23           12         23           14         25           14         35           12         24           13         14           14         15           14         15           15         14           16         15           12         24           13         14           14         15           15         14           16<		
	7 8 9 10 11 12 13	Channet: Status 00:01:54 ແລະ ຄາລ ແລະ ແລະ ແລະ ແລະ ອະລ ແລະ ອະລ ານອ ການ 	цар цар нар нар нар дар дар дар дар нар мар цар нар нар нар дар дар дар дар нар — 199 ⊕ ≪ ≪ ≪ ≕ ► ► ► ► ∞

# 4.5.1 How to playback

📀 Milesight

### 4.5.1.1 General Playback

ŧ	<b>@</b> N	1ilesight		
1000	Playback Ty	P#		
=	General Pla			
Live View	Stream Typ			
9	Primary Str	ream 🔍		
Playback	Channel			
	СН	Name		
Retrieve		CAM1		
NACOSNE.	2	CAM2		
전 inart An	<b>3</b>	CAM3		
inart An	4	CAM4		
30		CAM5		
X Settings	0.6	CAM6		
	07	CAM7		_
쑸	0.8	CAM8		
Status	0.9	CAM9		
12	10	CAM10		
Logs .	<b>D11</b>	CAM11		
	12	CAM12		
Ð				
Legent	Select M	lax. Clear All		
	( 2021	> ( Feb )		
		ne Wed Thu Fri Sat		
		2 3 4 5 6 9 10 11 12 13		
	14 15 1	16 17 18 19 20		
		13 34 25 26 27 2 3 4 5 6		
	7 8	9 10 11 12 13		
	Gene	ral		
	Event			
			Channolt Status 0000000	24:00
				-

Step 1. Select General Playback as Playback Type.

Playback Type	
General Playback	
Event Playback	

Step 2. Select Stream Type, including Primary Stream and Secondary Stream.

Primary Stream	1
Secondary Stre	am

### Step 3. Select channel you want to do playback.

### Note:

The playback stream you selected will be remembered when you reenter the web playback page.

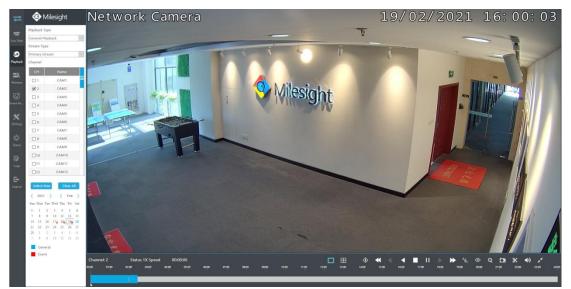
\$	📀 Milesight	
÷	Playback Type	
Live View	Stream Type	
G	Secondary Stream	
Playback	Channel	
	CH Name	
	I CAM1	
Retrieve	2 CAM2	
~	CAM2	
Smart An	4 CAM4	
	□ 5 CAM5	
×	GAM6	
Settings	T CAM7	
쑸	□ 8 CAM8	
Status		
2005	Select Max Clear All	
1.	2020 > < Aug >	
Logs	Sun Mon Tue Wed Thu Fri Sat	
Ð	26 27 28 29 30 31 1 ₀	
Logout	20 30 40 50 60 70 80 90 100 110 12 13 14 15	
	16 17 18 19 20 21 22	
	23 24 25 26 27 28 29 30 31 1 2 3 4 5	
	General	
	Event	
		Channel: 1 Status
		00:00 01:00 02:00

#### Step 4. Select Date.

Step 5. Click **D** to play.

### Note:

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



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

#### Note:

1. You can adjust the speed even when playback is paused.

2. The playback time bar on web page also shows the locked and tagged icons, which is the same as on the monitor.

### Video Playback Tool Bar Description



The tool bar can display multi-event recording. 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 below as an example, it means that there is continuously recording in this period.

lcons	Descriptions	lcons	Descriptions
	1 screen mode	Ħ	4 screens mode
۲	Smart Search	*	Speed Down
-	Step Reverse	◄	Rewind
	Stop		Play
11	Pause	▲	Step Forward
►	Speed Up	<i>√F</i>	Transcoding
$\otimes$	Client-side Dewarping	ତ	Digital Zoom
<b>C3</b>	Snapshot	ж	Backup
<b>∢</b> ∂	Audio On	-	Audio Off
×*	Original Image	×*	Resize Image

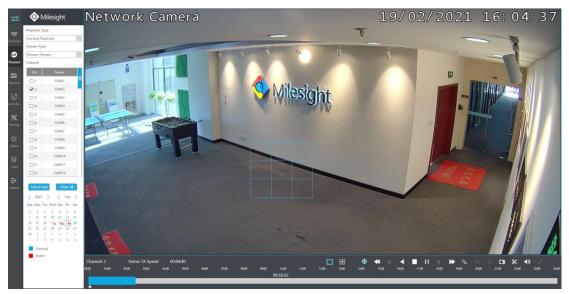
**Smart Search:** NVR can search out all relevant motion events and play all the event recording files of the certain area. Here are the steps of how to use the function.

(1) Go to Playback interface, select a channel to playback.



(2) Click to enable Smart Search.

(3) Draw an area in the frame and NVR would play the video files after searching out all motion events of the area.



#### Note:

- 1. Only NVR firmware version xx.9.0.10 or above supports Smart Search
- 2. Make sure your Camera version is xx.7.0.76 or above.
- 3. Smart Search and Smart Play Speed can not be used together.
- 4. Smart Search is available only when playing in a single channel.



### 4.5.1.2 Event Playback

Step 1. Select Event Playback as Playback Type.



Playback Type	
General Playback	
Event Playback	
Stroom Lung	

#### Step 2. Select Stream Type, including Primary Stream and Secondary Stream.

Primar	y Stream	
Second	lary Stream	

#### Step 3. Select Event Type

Motion Detection Alarm Input VCA Smart Analysis

In particular, the Detection Object option is available only if the Main Type is VCA and the Sub Type is one of several VCA events. You can search and palyback the video that meets the corresponding conditions according to the selected Detection Object. The Detection Object has three options: All, Human and Vehicle.

The VCA events which support the human/vehicle detection object function are:

- ① Region Entrance
- ② Region Exiting
- ③ Advanced Motion Detection
- ④ Line Crossing
- ⑤ Loitering

Event Playback	X
Stream Type	
Primary Stream	$\sim$
Main Type	
VCA	Y
Sub Type	
All	~
Detection Object	
All	
Human Vehicle	

Step 4. Select channel you want to do playback.

#### Step 5. Set Start Time and End time.

Start Time	
2020-08-10 00:00:00	
End Time	



Step 6. Click Search to search files. Step 7. Click to play.

# 4.5.2 Transcoding

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

Step 1. After successfully search out or play video, select the channel you want to transcoding

and click 🔌 to expand trancoding panel.

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

### Step 2. Set Transcoding parameters.

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

Step 3. Click Apply to make transcoding take effect.

### 4.5.3 Video Files Backup

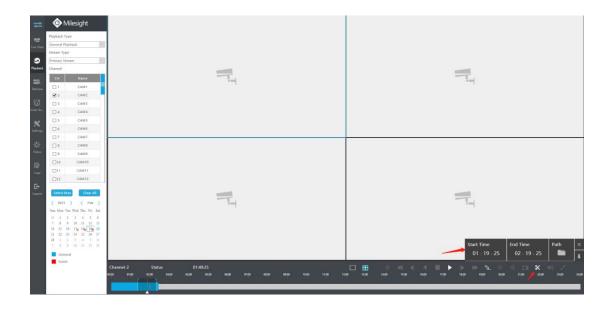
Recorded files can be cut and backed up from WEB.

Step 1. In playback interface, select camera, stream type, the date and time to search record video.

### Step 2. Select Recorded files for Backup.

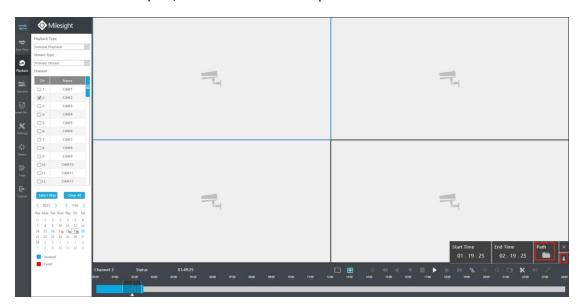
Click K, then select start time and end time by dragging the vertical line on the time bar.





### Step 3. Backup the recorded files.

Click 🔲 to select file path, then click 💵 to back up recorded files.



# 4.5.4 Picture Files Backup

Step 1. Browse a playback picture path in Local Configuration interface.

Record File Path	C:\Users\Eva\WebView\RecordFile		Browse
Preview Picture Path	C:\Users\Eva\WebView\LiveCaptureFile		Browse
Playback Picture Path	C:\Users\Eva\WebView\PBCaptureFile		Browse
Connection Type	HTTP	$\sim$	
Play Mode	Least Delay	$\sim$	
Auto Logout	15 minutes	$\sim$	
Primary Stream When Fullscreen			

Step 2. 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.

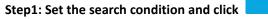


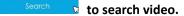
### 4.6 Retrieve

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



Common Backup	IIA II		
	□1 □2 □3	□4 □5 □6 □7 □8	
	Time		
	Stream Type	Primary Stream	×
	Record Type	All	8
	File Type	All	9
	Start Time	2020-08-10 00:00:00	13
	End Time	2020-08-10 23:59:59	
	Search		
	Gearch		





### Common Backup

All		
<b>⊻</b> 1 <b>⊻</b> 2 <b>⊻</b> 3 <b>⊻</b> 4	<b>v</b> 5 <b>v</b> 6 <b>v</b> 7 <b>v</b> 8	
Time	From 2020-07-10 11:32:48 To 2020-08-10 16:37:28	
Stream Type	Primary Stream	~
Record Type	All	$\sim$
File Type	All	$\sim$
Start Time	2020-08-10 00:00:00	
End Time	2020-08-10 23:59:59	111



#### The search result can be shown as a list.

o Bullet	() () () () () () () () () () () () () (						
		1	1	2020-08-10 00:00:00-00:07:44	439.7MB	۲	af I
Milesinhi		1	1	2020-08-10 00:07:44-00:25:45	1016.0MB	۲	n
A MURANCE		1	1	2020-08-10 00:25:45-00:43:44	1016.0MB	۲	aî.
The second of th		1	1	2020-08-10 00:43:44-01:01:36	1014.4MB	۲	n
		1	1	2020-08-10 01:01:36-01:19:31	1018.0MB	۲	aî.
		1	1	2020-08-10 01:19:31-01:37:18	1012.8MB	۲	nî n
		1	1	2020-08-10 01:37:18-01:55:14	1016.4MB	۲	n
		1	1	2020-08-10 01:55:14-02:13:28	1013.0MB	۲	n
Channel: 1 Name: CAM1		1	1	2020-08-10 02:13:28-02:31:40	1015.0MB	۲	aî.
20-08-10 00:25:45		1	1	2020-08-10 02:31:40-02:49:50	1017.3MB	۲	n
		1	1	2020-08-10 02:49:50-03:07:58	1015.2MB	۲	aî.
• • •		1	1	2020-08-10 03:07:58-03:26:06	1018.3MB	۲	n
rt Time: 2020-08-10 00:25:45		1	1	2020-08-10 03:26:07-03:44:30	1018.7MB	۲	aî.
1 Time: 2020-08-10 00:43:44		1	1	2020-08-10 03:44:30-04:02:38	1017.0MB	۲	n
		1	1	2020-08-10 04:02:39-04:20:49	1018.3MB	۲	aî l
e Size: 1016.0MB		1	1	2020-08-10 04:20:49-04:38:54	1013.0MB	(b)	a l
				Total:357 Item(s)	< < 1/4	> >>	

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



Backup Al

#### to backup all recorded videos.

Backup

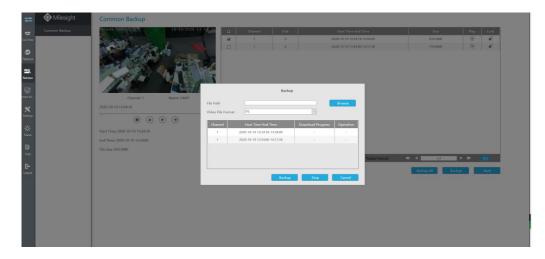
In Common Backup interface, Play, Lock and Unlock video are supported. Click 🕑 to play and

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

Step3: Select File Path and the format to be exported, which includes MP4, AVI and PS format

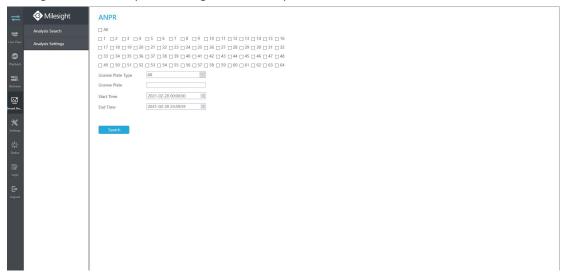
and then click

to export selected files.



# 4.7 Smart Analysis

You can get ANPR logs, People Counting results and Heat Map results in the page, as well as Settings for ANPR, People Counting and Heat Map.



## 4.7.1 Analysis Search

### 4.7.1.1 ANPR

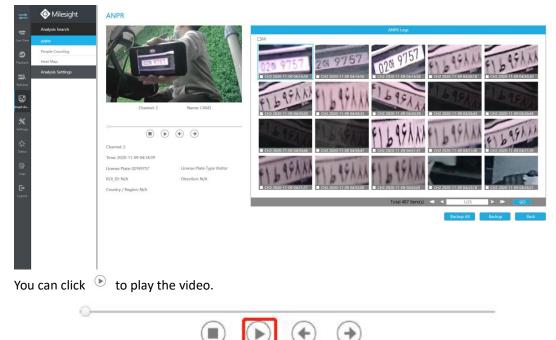
📀 Milesight

You can Search and Backup ANPR logs.

Input corresponding information and click search button

to search and you will get a

whole ANPR logs list. License plate snapshot will be shown on the logs list while the complete image video and license plate information will be shown on the left of the page. The License Plate Type option is convenient for users to quickly filter the black list, white list and visitor according to the license plate types.



There are two methods to backup ANPR logs.

① Backup license plates you want.

Step 1: Tick license plates you want to backup and click

Step 2: Select the export file type, video stream type and video file format, and then click

Backup

	Backup		
File Path	F:\test\test\LPRbackup		Browse
Export File	🗆 Plate List 🗧	Video	Picture
Video Stream Type	Primary Stream	<u></u>	
Video File Format	MP4	2	

- ② Backup all.
- Step 1: Click backup all

Backup All button;

**Step 2:** Select the export file type, video stream type and video file format, then click export button.

Then you will get corresponding file as selected export file type.

Picture	12/19/2019 6:49 AM	File folder
Plate List	12/19/2019 6:48 AM	File folder
Video	12/19/2019 6:49 AM	File folder

## 4.7.1.2 People Counting

You can Search and Backup the results of People Counting.



Step 1: Entering search conditions.

Group: Select the groups first.

**Report Type:** Daily Report, Weekly Report and Monthly Report are available.

Statistic Type: People Entered, People Exited and Sum are available.

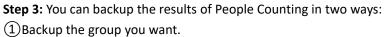
Start Time: Input the time from which you want to Search.

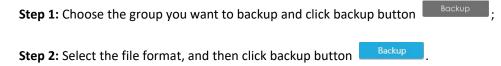
**Step 2:** Click **Securch** to obtain the corresponding result. There are two ways to show the

results of People Counting: Line Chart and Bar Chart.

And then you can click **Export** to export it.







	Backup	
File Format	CSV	·
	Bac	kup Cancel

2 Backup all.

Step 1: Click backup all button Backup All

**Step 2:** Select the file format, and then click backup button.



Then you will get corresponding file.

# 4.7.1.3 Heat Map

You can Search and Export Heat Map results.

⇒	Milesight	Heat Map	
=	Analysis Search	Channel	1 v Space Heat Map v
Line View	ANPR People Counting	Main Type Report Type	Daily Report
Playhack	Heat Map	Start Time	2021-02-20.00:00:00
IR Retreve	Analysis Settings	Search	Boot
ø			Space Heat Map
Smart An			
×			
Settings			
ALC: Status			
De Loga			
E+ Logout			
Logout			

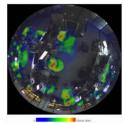
**Step 1**: Entering search conditions.

Channel: Select the channel first.

Main Type: Space Heat Map and Time Heat Map are available.

(1) Space Heat Map: Space Heat Map will be presented as a picture with different colors.

Different colors represent different heat values. Red represents the highest and blue represents the lowest.



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



**Report Type:** Daily Report, Weekly Report, Monthly Report and Annual Report are available. **Start Time:** Input the time from which you want to Search.



earch

to obtain the corresponding result and then you can click

Export

to export it.

# 4.7.2 Analysis Settings

## 4.7.2.1 ANPR

ANPR settings consist of Settings, List Management, Black List Mode, White List Mode and Visitor Mode. Here are some notes for using ANPR function.

Note:

📀 Milesight

- 1. Insert available HDD to NVR.
- Upgrade your device to corresponded firmware version.
   Camera: V4X.7.0.72-r16 or above.
   NVR: V7X.9.0.7-r7 or above.
   Firmware download link: http://www.milesight.com/support/download#firmware
- 3. Ensure both camera and NVR support LPR/ANPR function. Up to 16 ANPR channels are supported for Milesight NVR.
- 4. Ensure that NVR can get license plate information. Please set TCP which is the default mode as Post Type. It can be set in Camera web page -> LPR -> Settings -> General interface.

Enable LPR Message Post:	$\checkmark$	
Post Type:	TCP	~

## Settings

Do as following 5 steps to enable ANPR function. Camera will start to detect license plate and NVR will start to receive license plate information once these steps are done.

ŧ	Milesight	ANPR				
-		Settings	List Management	Black List Mode	White List Mode	Visitor List Mode
LiveView	Analysis Settings	Channel Event				
9	ANIPR	Channel	12	1		
Playback	People Counting	ANPR	R			
-	Heat Map	Image Settings				
Retrieve		LPR Night Mode	Disable	1		
应		Region Settings	201100 TO 1010228			
imart An						
*			1301	7 -		
Settings			1 THE			
**						
Status						
UR.						
Logs		1.1				
E+		Note: Please draw the s	creen for settings!			
Logovt		Add	Clear Clear	All		
		ID II	Name	Edit Deleti		
			ROI_1	/ 8		
		Event Settings				
		License	7325220€C786C	181838A37743F18EA00		
		License Status	Valid			
		Processing Resolution	1280*720	191		
		Effective Time	Edit			
		Detection Settings	Edit			
		Save				
		Note: Please config the	Action in Black List / Whit	e List or Visitor Mode.		

Step 1: Select a channel and enable ANPR function;

License: Generated by camera's information

License Status: Show present license status, including Valid, Invalid, Expired, Inactivated

**Step 2:** Select processing resolution. The further distance you detect, the higher resolution is needed. 1280*720 by default;

**Step 3:** Enable LPR Night Mode, then you can set LPR Night Mode Effective Time. There are two options available: Customize and Auto. Auto option supports automatic switch between day and night.

Image Settings	
LPR Night Mode	Enable
LPR Night Mode Effective Time	Customize
Start Time	18 🗸 00 🔨
End Time	06 🗸 00 🗸
Level	
Image Settings	
LPR Night Mode	Enable
LPR Night Mode Effective Time	Auto
Day to Night Value	³⁶ Reset
Night to Day Value	Reset
IR Light Sensor Value	0 0
Level	

#### Note:

Make sure your camera's version is 4X.7.0.77 or above so that the Auto option for LPR Night Mode Effective Time is available.

Step 4: Set ANPR function effective time;

**Step 5:** Set detection parameters including Detection Trigger, Confidence Level, License Plate Format, Repeat Plate Checktime and Features Identification;

Always		×	
	-0		
0	Millisecond	s 💙	(0~60000ms)
Edit			
Region	Direction		
ROI_ID			
	Edit All Region		4 0 Milliseconds ✓ Edit All Region Direction

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

**Confidence Level:** You can set the Confidence Level, and the higher the level, the more accurate the identification is.

**Repeat Plate Checktime:** The same license plate information won't be received on NVR within the time you set.

**License Plate Format:** Set corresponding License Plate Format to screen out license plates conforming to the count and format you set to improve recognition accuracy.



	License Plate Cl License Plate Fo Add		License Plate Foramt			
	ID Li	cense Plate Character Count All	License Plate Foramt	Enable	Edit	Delete
	1	7	AAA1111	2	1	Ŵ
	Format Example A - Letters Only 1 - Numbers Or = - Unrestricted	nly	Disable V	Cancel		Apply
1 Click	to add a	License Plate	Format.			
	License Plate	Character Coun	t 1			~
	License Plate	Foramt	*			
	Add					

2 Select License Plate Character Count, which is 1-9.

③ Fill in License Plate Format you want to detect. A stands for Letters, 1 stands for numbers and * stands for unrestricted type.

## Push Correct Character Count Results Only:

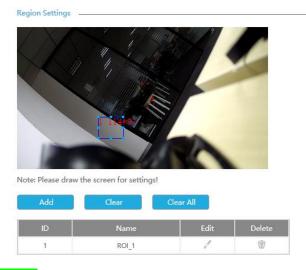
If the count of the detected license doesn't match your configuration, it will push correct character count results by completing or reducing characters automatically.

#### Note:

- 1. Make sure your IPC Version is 4X.7.0.74 or above.
- 2. You can add 8 rules at most.

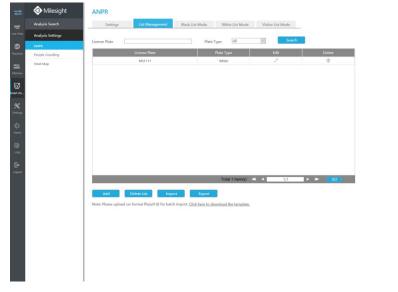
**Features Identification:** The selected features identification will be shown in ANPR logs interface. **Step 6:** Set the detected ROI region which can be up to 4 regions. License plate will only be detected in the ROI regions.





## List Management

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



There are two methods to add license plates:

1 Add one by one.

**Step 1:** Click Add button Add;

Step 2: Input the license plate and select license type;

Step 3: Click OK and then the license plate will be added into the list;

License Plate	MS2222	
Plate Type	Black	$\sim$
	ок	Cance

(2) Batch adding by importing template.

Step 1: Click here to download the template. to download

to download Template;

Step 2: Input all license type and license plate number as Template shows;

1	A	В
1	Type	Plate
2	White	2008ZGZ
3	Black	34AB1234
4		

**Step 3:** Click Import button _____, select the file and click ______ to add all license plates into list.

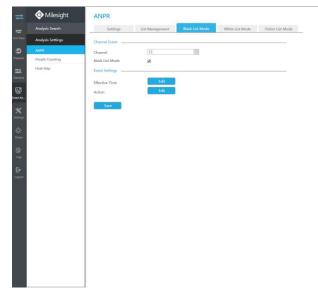
Black List Mode/White List Mode/Visitor Mode

We provide you three modes for better event management, which is based on two license types.

Black List Mode: Manage event for license plates in black list.

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

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



Step 1: Enable Black List Mode/White List Mode/Visitor Mode as your demand;

Step 2: Set effective time which means Mode works during that;

**Step 3:** Set action including Audible Warning, Email Linkage, PTZ Action, Alarm Output, White LED and Trigger Channels Record.

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. You can click 🚇 to copy the corresponding time Settings to any other time you want.

(2) It will be more convenient by clicking Select All or Clear All to set or clear all time

settings.

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

Audible Warning         Email Linkage         PTZ Action         Alarm Output         White LED         Others           Select All         Clear All         Clear All         Clear All         Clear All         Clear All         Clear All         0         2         4         6         8         10         12         14         16         18         20         22         24           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           Mon         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           Tue         0         2         4         6         8         10         12         14 <td< th=""><th>Audible Warning</th><th>F</th><th>of the</th><th></th><th></th><th>PTZ Ac</th><th>tion</th><th></th><th>Alarra</th><th>Output</th><th></th><th>14/6</th><th>nite LED</th><th></th><th>Others</th></td<>	Audible Warning	F	of the			PTZ Ac	tion		Alarra	Output		14/6	nite LED		Others
0       2       4       6       8       10       12       14       18       18       20       22       24         Sun       0       2       4       6       8       10       12       14       18       18       20       22       24         Mon       0       2       4       6       8       10       12       14       18       18       20       22       24         Mon       0       2       4       6       8       10       12       14       18       18       20       22       24         Tue       0       2       4       6       8       10       12       14       18       18       20       22       24         Wed       0       2       4       6       8       10       12       14       18       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	Addible Warning	Em	an um	age		PILAC	uon		Alann	Juipur	-	VVI	ILE LED		Others
0       2       4       6       8       10       12       14       18       18       20       22       24         Sun       0       2       4       6       8       10       12       14       18       18       20       22       24         Mon       0       2       4       6       8       10       12       14       18       18       20       22       24         Mon       0       2       4       6       8       10       12       14       18       18       20       22       24         Tue       0       2       4       6       8       10       12       14       18       18       20       22       24         Wed       0       2       4       6       8       10       12       14       18       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															
Sun         0         2         4         6         6         10         12         14         15         18         20         22         24           Mon         0         2         4         6         8         10         12         14         15         18         20         22         24           0         2         4         6         8         10         12         14         15         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         2         4         6         8         10         12         14         16         18         20         22 <td< th=""><th>Selec</th><th>All</th><th>Cle</th><th>ar All</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	Selec	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 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 Fri 0 2 4 6 8 10 12 14 15 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       15       19       20       22       24         Tue       0       2       4       6       8       10       12       14       15       19       20       22       24         Wed       0       2       4       6       8       10       12       14       15       19       20       22       24         Thu       0       2       4       6       8       10       12       14       15       19       20       22       24         Fri       0       2       4       6       8       10       12       14       15       18       20       22       24         Sat       0       2       4       6       8       10       12       14       15       18       20       22       24         0       2       4       6       8       10       12       14       15       18       20       22       24         0       2       4       6       8       10       12       14       15       18	Sun		-1-	4.1	1		1								
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         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		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	Mon														
Wed         0         2         4         6         8         10         12         14         15         19         20         22         24           Wed         0         2         4         6         8         10         12         14         15         18         20         22         24           Thu         0         2         4         6         8         10         12         14         15         18         20         22         24           Fri         0         2         4         6         8         10         12         14         15         18         20         22         24           Sat         0         2         4         6         8         10         12         14         15         18         20         22         24           Sat         0         2         4         6         8         10         12         14         15         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       15       18       20       22       24		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 Sat 0 2 4 6 8 10 12 14 16 18 20 22 24 0 2 4 6 8 10 12 14 15 18 20 22 24	Wed														
0 2 4 5 8 10 12 14 16 18 20 22 24 Fri Sat 0 2 4 5 8 10 12 14 15 18 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 15 18 20 22 24 Sat 0 2 4 6 8 10 12 14 15 18 20 22 24	inu		2	4			10	10	14	10	10	20		24	
Sat 0 2 4 6 8 10 12 14 16 18 20 22 24	Fri		7.	1.1	Ĩ	, i	10	12	17.	10	10	20			
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 15 18 20 22 24 Holiday	Sat														
	Holiday		2	4	6	8	10	12	14	16	18	20	22	24	
	rioliday														
Triggered Interval 20s	Triggered	Interval	2	:0s	Y										

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: Audible or Erase. Then drag a square on the time table for time

setting. You can click 📕 to copy the corresponding time Settings to any other time you want.

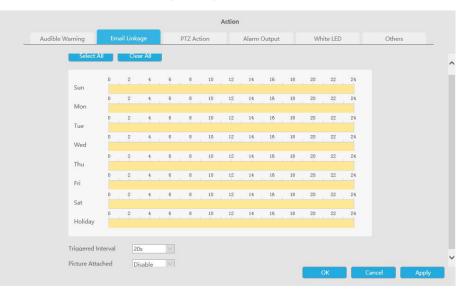
(2) It will be more convenient by clicking Select All or Clear All to set or clear all time

settings.

📀 Milesight

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

**Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



**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: Audible or Erase. Then drag a square on the time table for time

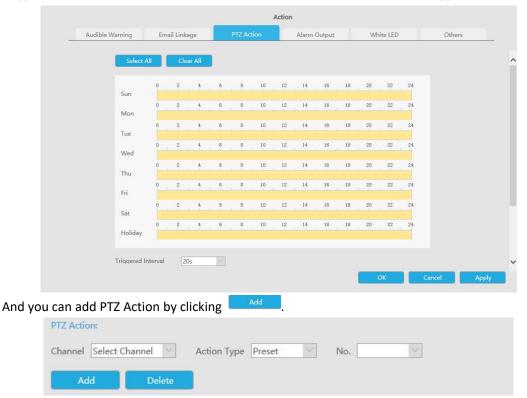
setting. You can click 📕 to copy the corresponding time Settings to any other time you want.



(2) It will be more convenient by clicking Select All or Clear All to set or clear all time

settings.

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

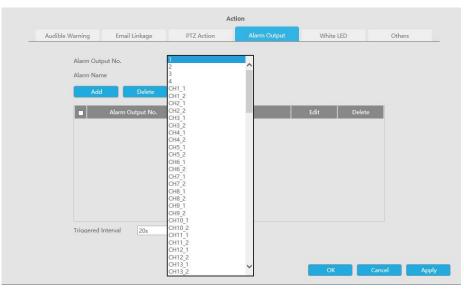


Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.





White LED: Trigger White LED flashing when alarm is triggered.

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. You can click 📕 to copy the corresponding time Settings to any other time you want.

(2) It will be more convenient by clicking Select All or Clear All to set or clear all time

### settings.

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

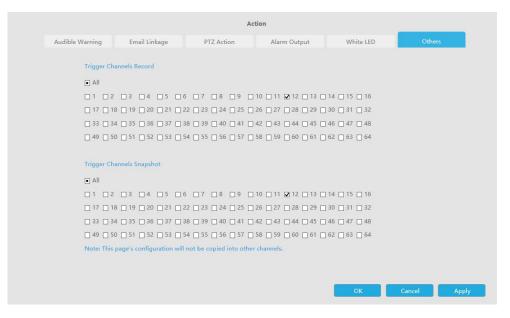
			A	Action		
	Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
	Select /	ul Clear All				
	Sun	0 2 4	6 8 10	12 14 16 18	20 22 24	
	Mon	0 2 4	6 6 10	12 14 16 18	20 22 24	
	Tue	0 2 4	6 8 10 6 8 10	12 14 16 18 12 14 16 18		
	Wed	0 2 4	6 8 10	12 14 16 18		
	Thu Fri	0 2 4	6 8 10	12 14 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	
	Triggered I	nterval 20s	V			
					ок	Cancel Apply
you can a	add White LE	D by clicki	ng			
White LED						
Channel	Select Channel	Flash	Mode Twinkle	Flach	Time	Rese

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record when alarm is triggered.



### Note:

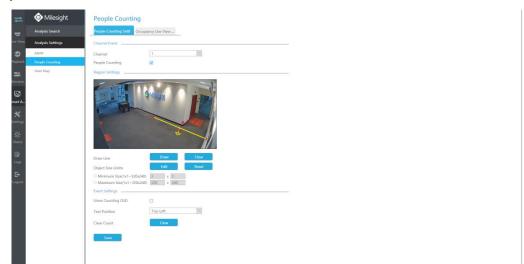
3. The list is exclusive for NVR, working with all LPR cameras you add. It won't synchronize with the list on camera side.

4. Do not forget to enable these modes, set effective time and record action for corresponded mode, ensuring that you can get real-time video when license plate is detected (Effective time and record action is enabled by default.)

## 4.7.2.2 People Counting

## **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.

People Counting

#### Step 3. Draw detection line.

📀 Milesight



#### Step 4. Set Minimum Size and Maximum Size.

O Minimum Size(1x1~320x240)	3	Х	3
OMaximum Size(1x1~320x240)	320	x	240

Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for People Counting will take effect.

**Maximum Size:** The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for People Counting will take effect.

### Step 5. Set counting OSD.

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



#### Note:

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

### **Occupancy Live View Settings**

You can configure information about Occupancy Live View on the page.



	Milesight	People Counting		
		Occupancy Live View		
•	Analysis Settings	Group Settings		
i ek	ANPR	Group Settings	Edit	
	People Counting	Group	1	1
	Heat Map	Group Name	Group1	1
		People Counting	Enable	1
		Occupancy Live View Settings		
n		Max. Stays	99999	1-99999
		Reminders of Green Light	Welcometti	
в.		Reminders of Red Light	Please wait till the green light turn on.	
		Font Size	Large	1
		Live View Counting Reset	Reset	
		Live View Counting Auto Reset	Disable	1
		Day	Everyday	i i
		Time	00 : 00 : 00	í –
•		NVR Counting Reset	Reset	
		Alarm Action	Edit	
		Save		

#### Note:

Make sure your camera's version is 4X.7.0.77 or above.

Step 1. Set Group.

**Group Settings:** Click Edit to pop up the Group Settings interface. Then you can click

to add Group in the interface, and edit the Group Name and select the Channels to

join the Group in the Add Group interface. You can add up to 9 Groups.

	Add Group
Group No.	4
Group Name	Group 4
Channel	
	▼ 33 ▼ 34 ▼ 35 ▼ 36 ▼ 37 ▼ 38 ▼ 39 ▼ 40 ▼ 41 ▼ 42 ▼ 43 ▼ 44 ▼ 45 ▼ 46 ▼ 47 ▼ 48
	✓ 49 Ø 50 Ø 51 Ø 52 Ø 53 Ø 54 Ø 55 Ø 56 Ø 57 Ø 58 Ø 59 Ø 60 Ø 61 Ø 62 Ø 63 Ø 64
	OK Cancel

#### Step 2. Select a Group from the added Groups.

Group	1	$\sim$

Group Name: The corresponding Group Name will be automatically obtained according to the

Group No. you choose. You can modify the Group Name by clicking 🖉 on the corresponding

Group in the Group Settings interface.

### Step 3. Enable People Counting for the selected Group.

People Counting Enable

#### Step 4. Set the relevant parameters of People Counting.

Max. Stays: Set the maximum number of people staying from 1 to 99999, the default value is

99999.

**Reminders of Green Light:** Set the prompt when Green Light is on in the Occupancy Live View interface, up to 45 characters. The default prompt is "Welcome!!!".

Reminders of Red Light: Set the prompt when Red Light is on in the Occupancy Live View interface, up to 45 characters. The default prompt is "Please wait till the green light turn on.". Font Size: Select the font size of the prompt. There are three options: Small, Medium and Large. Live View Counting Reset: Reset the Group counting data in the Occupancy Live View interface. Live View Counting Auto Reset/Day/Time: The Group counting data is automatically reset at the set time when Live View Counting Auto Reset is enabled.

Live View Counting Auto Reset	Disable	$\sim$
Day	Everyday	×
Time	00 : 00 : 00	

**NVR Counting Reset:** Reset the Group counting data stored in NVR side, and also reset the Group counting data in the Occupancy Live View interface.

**Alarm Action:** Alarm is triggered when the number of people staying in the current group reaches the set maximum number of people staying. You can set alarm action including Audible Warning, Email Linkage, PTZ Action, Alarm Output and White LED.

Audible Warning: NVR will trigger an audible beep.

The user can set effective schedule as following two ways:

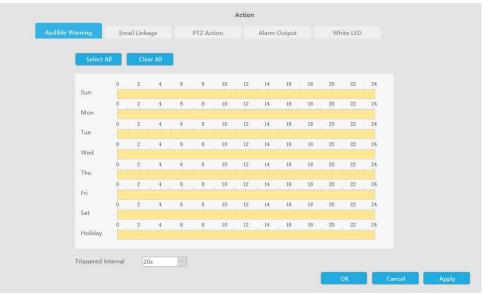
(1) Select the operation type: Audible or Erase. Then drag a square on the time table for time

setting. You can click 🚇 to copy the corresponding time Settings to any other time you want.

2 It will be more convenient by clicking	Select All	or	Clear All	to set or clear all time

settings.

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



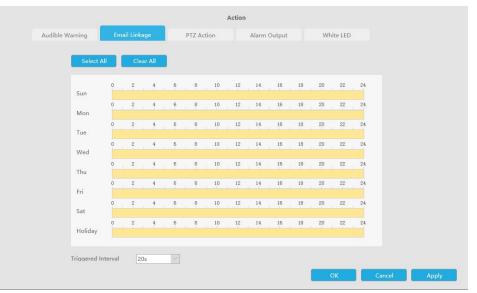
**Email Linkage:** NVR will send an email to the address you set before. The user can set effective schedule as following two ways: 1 Select the operation type: Audible or Erase. Then drag a square on the time table for time

setting. You can click 💻 to copy the corresponding time Settings to any other time you want.



## settings.

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



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

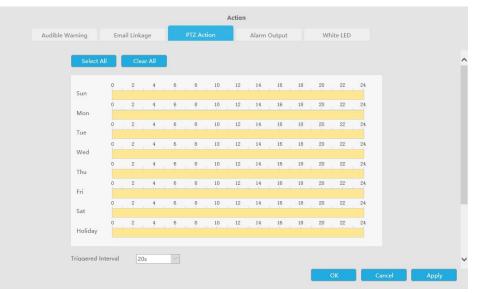
(1) Select the operation type: Audible or Erase. Then drag a square on the time table for time

setting. You can click 📕 to copy the corresponding time Settings to any other time you want.

(2) It will be more convenient by clicking Select All or Clear All to set or clear all time

#### settings.

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



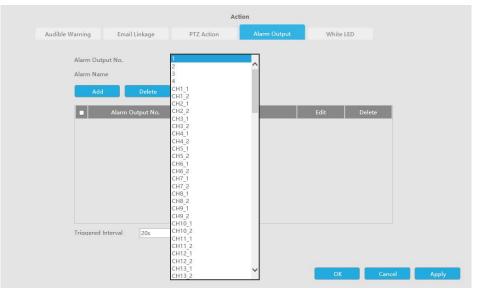
And yo	u can add P	TZ Action by clicking	Add .				
	PTZ Action:						
	Channel S	elect Channel	Action Type	Preset	$\leq$	No.	$\sim$
	Add	Delete					

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

**No.:** Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.



White LED: Trigger White LED flashing when alarm is triggered.

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. You can click 💻 to copy the corresponding time Settings to any other time you want.

(2) It will be more convenient by clicking Select All or Clear All to set or clear all time

settings.

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

											Action						_			
	Audible Warning		Email Linkage				PTZ Action A			Alarm Output			White LED							
			Select All		Clear	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			Ľ.
			Holiday		1	1		1		10	14	1	10	10	20	66				
		т	riggered Inte	rval	20s		$\sim$													~
																ок		Cancel	Apply	
And yo	ou can	add Wh	ite LEC	) by	cli	ckir	١g		Ad	d										
N	White LE	D:																		
(	Channel	Select Ch	iannel	~	F	lash	Mod	de [	Twi	nkle	e	2	F	lash 1	Time	-	3		Reset	
1	Ad	d	Dele	te																

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

## 4.7.2.3 Heat Map

Milesight NVRs support the configuration of the Heat Map function of Milesight cameras on NVR directly and you can search and export the results of Heat Map in Smart Analysis.

#	📀 Milesight	Heat Map				
-	Analysis Search	Heat Map Settings				
Live View	Analysis Settings	Channel	5		100	
9	ANPR	Heat Map	Disable		52	
Playback	People Counting	Sensitivity		5		
	Heat Map	Min. Object Size	-0	10		
Retrieve		Min. Dwell Time	30		1~300s	
2		Scene Change Adaptability				
imet An		Region Settings				
*		Network Camera	Milesign	Per 20/01/20	21 20:50:24	
Settings Status			Hin. Ob.	leat Size	A	
logs			-		-	
G•		dia M				
Logist		Set All C	lear All			
			REAT AUT			
		Copy To Camera				
		Save				

**Sensitivity:** Level 1~10 are available, the default level is 5. The higher the sensitivity, the easier the moving subjects to be recorded in the result.



**Min. Object Size:** Set the minimum object size from 1 to 100, the default value is 10. Objects smaller than this value will not be recorded in the result.

**Min. Dwell Time:** Set the minimum dwell time from 1 to 300, the default value is 30. If the object stays in the area longer than the set "Minimum Dwell Time", it will not be recorded in the result.

Scene Change Adaptability: Level 1~10 are available, the default level is 5. Scene Change Adaptability indicates the camera's adaptability to scene changes, which can increase the accuracy of detection. The camera adapts better to faster changing scenes if the value is higher. **Region Settings:** Draw the screen to set the detection area. You can click "Set All" button to select all areas, or "Clear All" button to remove the current drawn area.

#### Note:

4. Ensure that your camera's version is 4X.7.0.74 or above.

- 5. Please configure Heat Map schedule on camera side.
- 6. The Heat Map function only works on the following cameras:

Fisheye: Ensure that the dewarping mode is 10 and the dewarping rule is On-board Dewarping. Panoramic Mini Bullet: Ensure to turn on the Lens Distort Correct function.

# 4.8 Settings

## 4.8.1 Local Configuration

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

Record File Path	C:\Users\Alison\WebView\RecordFile		Browse
Preview Picture Path	C:\Users\Alison\WebView\LiveCaptureFile		Browse
Playback Picture Path	C:\Users\Alison\WebView\PBCaptureFile		Browse
Language	English	$\sim$	
Connection Type	НТТР	~	
Play Mode	Least Delay	4	
Auto Logout	30 minutes	~	
Primary Stream When Fullscreen			

## 4.8.2 Camera

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.

# 4.8.2.1 Camera Management

Convoid         Image: Convoid Convoid         Image: Convoid	
Datestication         User Name         Indexinit         Partnerd           PTC Configuration         Tase sport Protocol         Adv         Tase sport Protocol	
FTC Confunction         Transport Protocol         Auto         Transport Protocol         Confusion         Confus	
Image         Pretocol         OWN#           Audres         Advande	
Aufling         Addressed         Events         Eve	
Construinture         Add         Referse         Dates         Edd Authentication           Binogen         I         Oburnel         Channel Nerve         Edd         Dates         Status         IPAddess         Oburnel         MAC         Ferneses Version           Lovet         I         GMU1         1/2         IPA         Oburnel         Edd         Dates         Status         IPAddess         Oburnel ID         Post         Protocol         MAC         Ferneses Version	
Cameral International Control Internation         Cameral Control Internate Internation         Cameral Control Int	
Ununde         Ununde         List         Owner         Statue         or Address         Classed ID         Port         Po	
	n Madel
	MS-C2962-FP8
System	MS-C2961-EB
3 CAM3 2 192168.14104 - 8084 DNVF 1CC316238013 40.7.0.78	MS-C2942-8
□ 4 CAM4 / 🖹 🤮 O 192168.14.165 - 8665 OHVHF 1CC116220080 43.76.78	MS-C9674-P8
S CAMS / 🕸 🔮 192.162.724 - 80 ONVE 102.162.075 457.678	MS-C2864-RFP

## Step1. Add Camera.

📀 Milesight

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.

 Protocol
 ALL
 IP Range
 192, 168, 14, 102
 255, 255, 255, 255
 Search
 Add

 ONVIF
 NMSSP
 ess
 Edit
 Status
 Port
 Protocol
 NIC
 MAC
 Firmware Version
 Model

2. Click	Search	to search cameras at the same network segment with NVR.
----------	--------	---------------------------------------------------------

	Camera		No.	IP Address	Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
			1	192,168,2,111	1	Juntus	80	ONVIE	LANZ	100316289074	46.7.0.75-a4	MS-C2964-SP8	Milesight Technology Co.,Ltd.
פ	Camera Management		2	192,168,2,147	1		80	ONVIE	LAN2	1CC316230744			
rheck	Device Search		3	192.168.3.185	1		80	ONVIE	LAN2	100316252683	43.7.0.76-r1	MS-C2941-X428PB	Milesight Technology Co.,Ltd.
19	PTZ Configuration		4	192.168.4.105	1		80	ONVIE	LAN2	1CC31628FF16	45.7.0.75-r1-a2	MS-C8175-PC	Milesight Technology Co., Ltd.
tieve	Image		5	192,168,4,108	1		80	ONVIE	LAN2	1CC316290569	45.7.0.75-r1-a3	MS-C5375-HEPC	Milesight Technology Co.,Ltd.
	Audio		6	192,168,4,112	1		80	ONVIE	LAN2	1CC31625094D	43.7.1.75-r5	NC5372-HFPB	IPCAM
2 1 An.	Advanced	0	7	192,168,4,116	1		80	ONVIE	LAN2	1CC316288C88	45.7.0.76-f	MS-C2973-SPB	Milesight Technology Co.,Ltd.
t An.	Camera Maintenance		8	192,168,4,139	1		80	ONVIE	LAN2	1CC31628906F	46.7.0.76-a4	MS-C2964-SPB	Milesight Technology Co.,Ltd.
ĸ			9	192.168.4.162	1	120	80	ONVIE	LAN2	1CC316282E13	45.7.0.75-af-a3	MS-C2941-X30RPC	Milesight Technology Co., Ltd.
tinga			10	192,168,4,190	1		80	ONVIE	LAN2	1CC3162585F9	43.7.0.76-a2	MS-C8165-P8	Milesight Technology Co.,Ltd.
			11	192,168,4,200	1		80	ONVIE	LAN2	1CC31627E613	43.7.0.76	MS-C2941-X23RP8	Milesight Technology Co.,Ltd.
			12	192,168,4,211	1		80	ONVIE	LAN2	1CC3162643D8	43.7.0.76-LPR2-a4	MS-C2941-X23RLxPB	Milesight Technology Co.,Ltd.
atus	System		13	192.168.4.248	1		80	ONVIE	LAN2	1CC316246087	41.7.0.75+r5	MS-C5375-EPB	Milesight Technology Co.,Ltd.
2			14	192.168.4.253	1		80	ONVIE	LAN2	1CC316287C75	45.7.0.75-vca-t9	MS-C2864-REPC	Milesight Technology Co.,Ltd.
020			15	192.168.7.74	1		80	ONVIE	LAN2	1CC3162460AA	41.7.0.75-r5	MS-C5375-EP8	Milesight Technology Co.,Ltd.
⇒			16	192,168,7,75	1		80	ONVIE	LAN2	1CC31621666C	41.7.0.76	MS-C4472-FIPB	Milesight Technology Co.,Ltd.
			dd	Arthuite	IP Edit								
		_											

to finish.

P Address	192.168.7.140			
Channel	6	$\sim$	Channel Name	CAM6
User Name	admin		Password	
Transport Protocol	Auto	$\sim$	Time Setting	Sync Time With NVR
Port	80			
Protocol	MSSP	$\sim$		

- 3. Or you can check
- to **batch adding** the network cameras if they are of the same

password, and you can choose TCP, UDP or Auto transport protocol for it. Click to finish batch adding.

User Name	admin	
Password	******	
Transport Protocol	Auto	$\sim$

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

#### **Camera Management**

annel	6	Y	Channel Name	CAM6
Address			Port	80
ser Name	admin		Password	
ransport Protocol	Auto	>	Time Setting	Sync Time With NVR
rotocol	ONVIF	4		

Select channel id, input complete information, then click

There are three protocols available for camera connection:

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

Camera Manag	gement			
Camera Management	Batch Management			
Channel	5	$\sim$	Channel Name	CAM5
IP Address			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". The length of RTSP can be up to 128 bits.

Camera Management	Batch Management			
Channel	5	$\sim$	Channel Name	CAM5
User Name	admin		Password	
Transport Protocol	UDP	$\sim$	Time Setting	Sync Time With NVR
Protocol	RTSP	$\sim$		
Primary	rtsp://192.168.7.222:554/r	main	Secondary	rtsp://192.168.7.222:554/sub

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

Camera Management	Batch Management	-		
Channel	5	$\sim$	Channel Name	CAM5
P Address	192.168.7.222		Port	80
Jser Name	admin		Password	******
ransport Protocol	UDP	$\sim$	Time Setting	□ Sync Time With NVR
Protocol	MSSP	$\sim$		

You can add offline cameras to Milesight NVRs by method2. As long as the device information you fill in is correct, NVR will determine whether the device is connected and update the camera status automatically.

#### Note:

1. When adding fisheye cameras in Multi-Stream Mode, NCR would distinguish all of its channels as independent channels for adding, thus you can select the ID to add as your demand.

Channel I	123 C			
channeri	D			
All				
<b>I</b> 1	<b>2</b> 2	<b>V</b> 3	☑ 4	

2. Only Fisheye camera has Channel ID, which depends on its Display Mode. For Example, if a Fisheye camera's Display Mode is 103R, there would be 4 Channels to be added with the original view gets Channel ID as 1 and the first region view gets Channel ID as 2 and so on.

1	CAM1	1	Ŵ	0	192.168.14.102	1947	8081	ONVIE	1CC316210991	40.7.0.78	MS-C2962-FPB
2	CAM2	1	Ŵ	0	192.168.14.103		8083	ONVIE	1CC316219804	40.7.0.78	MS-C2961-EB
3	CAMS	1	Ŵ	0	192.168.14.104	197	8084	ONVIE	1CC316238D13	40.7.0.78	MS-C2942-B
4	CAM4	1	Ŵ	0	192.168.14.105	1	8085	ONVIE	1CC316220D8D	43.7.0.78	MS-C9674-PB
5	CAM5	1	Ŵ	0	192.168.7.234	14 A	80	ONVIE	1CC316287C75	45.7.0.78	MS-C2864-RFPC

#### Step2. Check the connection status.

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

appears under Status.

If it shows the |  $^{}$  icon, users can move the mouse to the corresponding icon in the status bar

#### to check the reason for the disconnection.

											Model
1	CAM1	1	8	0	192.168.14.102		8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FP8
2	CAM2	1	10	0	192.168.14.103		8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
3	CAMS	1	Ŵ	Disconnected:	192.168.14,104		8084	ONVIF	1CC316238D15	40.7.0.78	MS-C2942-B
4	CAM4	1	Ŵ	Incorrect Password	192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
5	CAMS	1	10	4	192.168.7.234		80	ONVIE			

#### Step3. Configure IP Channel.

#### Configure one camera

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

			Camera Edit		
Settings	Parameters				
Channel IP Address User Name	1 192.168.14.102 admin		Channel Name Port Password	CAM1 8081	
Transport Protocol	UDP	~	Time Setting	Sync Time With NVR	
Protocol	MSSP	~			
				ОК	Cancel



Go to Parameters page to re-edit parameters of this channel, select the Record Stream Type as General or Event to set different parameters separately. It is recommended to set lower

parameters for General Stream to save certain storage. Click OK to save after your configuration.

#### Note:

1.Event Record Stream Configuration includes Events like Motion Detection, VCA, Camera Alarm Input and Smart Analysis.

2.Make sure your IPC's firmware version is 4X7.0.75 or above.

Settings	Parameters		
Primary Stream		Secondary Stream	
Record Stream Type	General	Secondary Stream	Enable
Video Codec	H.264	Video Codec	H.264
Frame Size	2592*1944	Frame Size	640*480
Max Frame Rate	20	Max Frame Rate	25
Bit Rate	8192	Bit Rate	512
Bit Rate Control	CBR	Bit Rate Control	CBR
-frame Interval	40	I-frame Interval	50
Smart Stream	Off	Smart Stream	Off
Audio	Disable		

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

Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
1	CAM1	1	Ŵ	0	192.168.14.102		8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FP8
2	CAM2	1	Ŵ	0	192.168.14.103		8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
3	CAM3	1	Ŵ	0	192.168.14.104		8084	ONVIE	1CC316238D13	40.7.0.78	MS-C2942-8
4	CAM4	1	Ŵ	0	192.168.14.105	- 1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
5	CAM5	1	Ŵ	0	192.168.7.234		80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFPC

Construint         Video Code:         N256           Price Stam         Video Code:         N256	
TII Configuration         Frame Size         100/7000         Frame Size         20/21/8           Marge         Main         20         Main Frame Size         20         20           Aurilio         Bin Rate         40/00         Bin Rate         20         20         20           Aurilio         Bin Rate         40/00         Bin Rate         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20 <th></th>	
Integra     Mar forma face     12     Mar forma face     10       Andre     Ein Race     600     Ein Race     112       Anarod     Ein Race Control     Ein Race Control     Ein Race Control     Ein Race Control       Annord     Ein Race Control     Ein Race Control     Ein Race Control     Ein Race Control       Annord     Ein Race Control     Ein Race Control     Ein Race Control     Ein Race Control       Storage     The Sterling     Sync Tion With WORL     Ein With WORL	
Image     EX Rate     6054     EX Rate     512       Advanced     EX Rate Control     VRR     EX Rate Control     EX Rate Control       Canava Maintenane     Inflame     Inflame     EX Rate Control     EX Rate Control       Storage     Inflame     Inflame     EX Rate Control     EX Rate Control	
Audio Eli Rais Control UBA El Rais Control Eli Rais Contr	
Advanced Evene Mathematic Interval (0) I fame	
Career Manfinieres Storage Time Setting Sync Time With NVR	
Storage	
Event Energy Rednesh Dulets Edit Authentication	
System Channel Channel Name Life Delete Status. IP Address Channel D Port Protocol MAC Firmware Ver	on Model
😨 1 CAM1 🖍 🔮 📀 192168.14.182 - 8881 ONVF 10C31821993 44276.73	M5-C2962-FPB
2 CAM2 / ⁴ 9 91216814103 - 8083 OH14F 100316219804 4070.78	MS-C2161-E8
3         CAN3         2         0         192.140.14.194	M5-C2942-8
4         CMM4         //         III         O         192.168.14.195         1         BBS         ONVEF         1002.16220200         442.20.78           D         5         CAMS         //         III         III         IIII         IIII         IIIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	MS-C9674-P8 MS-C2064-RFPC
S         CAMS         Z         III         O         1932/468/2284         -         B0         OHVHT         1003/1017/23         452/02/16           Free Receiving Bundwidth         128/30Mbps         -         B0         OHVHT         1003/16273         452/02/16	M3-C2064-RFPC

### 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

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;

assword	

#### Note:

1. When NVR detects the inactive camera connected via PoE port, the camera will synchronize the password of NVR, and then camera will be successfully connected. For Fisheye Camera

that are in Multi-Stream Mode, it would add all its channels by default.

- 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.
- 4. You can access to cameras website directly by clicking ²², which can save much steps to

configure cameras with complete settings which were unavailable.

amera N	lanagement	Batch Management											
nannel		6	1	Channel M	lame	CAM6							
Address				Port		80							
ser Name		admin		Password									
ransport F	Instanal	Auto	2	Time Sett		Sync Time With NVR							
		ONVIE		Time Seco	ing .	Jyne mile und twik							
otocol													
		01411											
		0.000											
Add	_		it Authenticatio	on									
Add	_		it Authenticatio	on									
Add	_		it Authenticatio	Delete	Status	IP Address	Channel ID	Access	Port	Protocol	мас	Firmware Version	Model
	Re	irresh Delete Edi	_		Status	IP Address 192.168.14.102	Channel ID	Access	Port 8081	Protocol	MAC 1CC316210991	Firmware Version 40.7.0.78	Model MS-C2962-FPB
	Re	rresh Delete Ed	Edit	Delete	20000000000			0.000 (0.000			000000		040030645940040
	Re Channel 1	rresh Delete Ed Channel Name CAM1	Edit	Delete	0	192.168.14.102	-	0	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPE
	Channel 1 2	resh Delete Ed Channel Name CAM1 CAM2	Edit	Delete T	0	192.168.14.102 192.168.14.103	-	0	8081 8083	ONVIF	1CC316210991 1CC316219804	40.7.0.78 40.7.0.78	MS-C2962-FPE MS-C2961-EB

#### 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.

## 4.8.2.2 Device Search

cal Configuration	Prot	DCOI ALL	NIC ALL	$\sim$	IP Range	0.0.0	. 0 . 255.255.	255.255	Search			
amera		No.										
emera Management	1	1	192.168.2.111	1	Active	80	MSSP	LAN2	1CC316289074	46.7.0.75-a4	MS-C2964-SP8	Milesight
evice Search	1	2	192.168.2.113	1	Active	80	MSSP	LAN2	1CC316145689	45.7.0.75-r1-test	MS-CB164-FIPC	Milesight
Z Configuration		3	192.168.2.114	1	Active	80	MSSP	LAN2	1CC316267EC8	40.7.0.75-r3-a3	MS-C2851-P8	Milesight
	- 1	4	192.168.2.121	1	Active	80	MSSP	LAN2	1CC316DA091A	43.7.0.75	MS-C9674-PB	Milesight
age	1	5	192.168.2.132	1	Active	80	MSSP	LAN2	1CC31680F3A1	41.7.0.75-r5	MS-C4562-FIPB	Milesight
idio	1	6	192.168.2.134	1	Active	80	MSSP	LAN2	1CC31622168F	43.7.0.76-LPR1-r1	MS-C2961-QELxP8	Milesight
lvanced		7	192.168.2.137	1	Active	80	MSSP	LAN2	CA000000000	40.7.0.76-sd	MS-C3763-FPB	Milesight
mera Maintenance	1	8	192.168.2.138	1	Active	80	MSSP	LAN2	1CC31620106E	43.7.0.76-LPR2-a4	MS-C5361-ELPB	Milesight
orage	1	2 2	192.168.2.146	1	Active	80	MSSP	LAN2	1CC316219227	41.7.0.76-a2	MS-C4482-PB	Milesight
		10	192.168.2.147	1	Active	80	MSSP	LAN2	1CC316230744	40.7.0.74	MS-C2961-EB	Milesight
ent		11	192.168.2.148	1	Active	80	MSSP	LAN2	1CC316287C6D	45.7.0.75-FD1-vca-bi4	MS-C2972-RFIPC	Milesight
	1	12	192.168.2.149	1	Active	80	MSSP	LAN2	1CC31623CF96	41.7.0.75-t	MS-C4463-PB	Milesight
		13	192.168.2.155	1	Active	80	MSSP	LAN2	1CC316C19192	41.7.0.76-a3	MS-C4463-PB	Milesight
		14	192.168.2.158	1	Active	80	MSSP	LAN2	1CC316201050	43.7.0.75-LPR2-r5	MS-C8262-FILPB	Milesight
	1	15	192.168.2.159	1	Active	80	MSSP	LAN2	1CC316217F7E	41.7.0.73	MS-C4463-PB	Milesight
	1	16	192.168.2.168	1	Active	80	MSSP	LAN2	1CC3162207B5	40.7.0.75-t	MS-C3763-FP8	Milesight
		Add	Activate	IP Edit								

Select Protocol and NIC, set the IP range, then click



to quickly search the IP



devices that support selected	protocol and NIC at the same LAN with NVR.
devices that support selected	

Protocol ALL V NIC	ALL IP Range	0 . 0 . 0 . 0 . 255.255	5. 255. 255	Search	Add
If the camera status show	vs Inactive, please	select camera an	d click	Activate	to active it
first before adding to NVI	R.				
Besides, you can select cl	nannels and click	IP Edit	to <b>batch e</b>	<b>diting</b> their	IP
information.					
		IP Edit			
	MAC	1CC31621EC5A			
	IP Address	192.168.7.222			
	Subnet Mask	255.255.240.0			
	Gateway	192.168.7.1			
	DNS	8.8.8.8			
	Port	80			
	User Name	admin			
	Password				
		ОК	Cancel		

# 4.8.2.3 PTZ Configuration

## PTZ Privacy Mask

Milesight NVR supports setting privacy mask for PTZ camera. Different from the general Privacy Mask, it is featured with a 3D coordinate system to protect object's privacy and keep the specified area masked through manual operations from monitoring no matter how cameras pan/tilt/zoom.



Milesight	PTZ Configuration		
Local Configuration	PTZ Privacy Mask Auto Tracking Advanced	_	
Camera	PTZ Privacy Mask Settings		
Camera Management	Channel 2		
Device Search	PTZ Privacy Mask 😡		
PTZ Configuration	Region Settings		
Image		Preset	
Audio			
Advanced		< O > 002 Preset 2	
Camera Maintenance			
		5 005 Preset 5	
		006 Preset 6	
		108. Precet 8	
	(MANTHON)	- D + 009 Preset 9	
	Add Clear Clear All	- + 010 Preset 10	
	A00 Citear Citear A0		
	ID Name Type Enable	Active Zoom Ratio Edit Delete	
	1 PTZ Privacy Mask 1 White 🖌	1 / 2	

You can add a privacy mask by following steps:

Step1. Select channel and enable Privacy Mask.

Step2. Drag the mouse to select the area which needs to be protected on the live view window

and click to save the selected areas. You can add 8 areas at most and each zone can be enabled and disabled.

Step3. Click 👘 to edit PTZ Privacy Mask Name, the Privacy Mask Type and Active Zoom

Ratio.

_							
<b>±</b>	Milesight	PTZ Configuration					
-	Local Configuration	012 Drivacy Mark Auto Trackie	g Advanced				
Vene	Camera	PTZ Privacy Mask Settings					
	Camera Management	Channel 2					
**	Device Search	PTZ Privacy Mask	DT7 D	rivacy Mask Edit	7		
	PTZ Configuration	Region Settings		intery mass care	L		
e -	Image		Name	PTZ Privacy Mask 1	Presot		
	Audio		Туре	White	Preset 1		
	Advanced Camera Maintenance		Active Zoom Ratio		Preset 2		
					Preset 3 Preset 4		
	Storage	Contraction of the		OK Cancel	Preset 5		
	Event		State of the local division of the	- 44 +	Preset 6 007 Preset 7		
	System				008 Preset 8		
	(	and the second second			009 Preset 9 010 Preset 10		
		Add Clear	Clear All		011 Preset 11		
		ID Name	Type Enable	Active Zoom Ratio			
		1 PTZ Privacy Mask 1	White 😪		7 1		
		Note: Support up to 8 Privacy Mask areas.					
		Save					

Step4. Select "

" to save the settings.

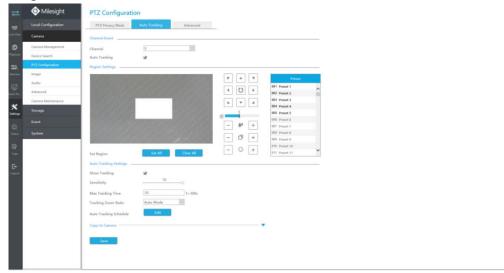
## Note:

- 3. Ensure that your camera's version is 4X.7.0.73 or above.
- 4. There are two interfaces for Privacy Mask configuration. PTZ Privacy Mask is only applied in PTZ cameras while Privacy Mask can also be applied in other cameras.



### Auto tracking

PTZ camera series supports to track the moving objects automatically after you configure this function.



Step1. Check the checkbox to enable Auto Tracking.

Step2. Enable "Show Tracking" to show tracking in Auto Tracking function.

Step3. Set detection region.

Step4. Set detecting sensitivity.

Step5. Set Max. Tracking Time which must be between 5~300s. The camera will stop tracking when the tracking time is used up.

#### Step6. Select Tracking Zoom Ratio, which includes Auto Mode and Customize.

• Tracking Zoom Ratio is used to adjust the zoom ratio of the moving object when using Auto Tracking. PTZ camera would adjust the zoom ratio automatically according to the distance and speed of moving object under Auto Mode. If select Customize, PTZ camera would adjust to the zoom ratio you set before when tracking the target.

• How to set Customize Tracking Zoom Ratio:

-

① Set zoom ratio by

* + button.

② Click

to save your configuration.



PTZ Privacy Mask	Auto Tracking	Advanced		
Channel Event				
Channel	3	10		
Auto Tracking	2			
Region Settings				
100000		12220	F A 4	Preset
				001 Preset 1
			4 U >	002 Preset 2
				003 Preset 3
				004 Preset 4
				005 Preset 5
	The same of the lot of the same of			006 Preset 6
			- 44 +	007 Preset 7
			- * +	005 Preset 8
			- \$* + - 17 +	008 Preset 8 009 Preset 9
			- # + - 0 +	005 Preset 8 009 Preset 9 010 Preset 10
iet Region	Set All	Clear All	- 44 + - 17 + - 0 +	008 Preset 8 009 Preset 9
	Set All	Clear All	- 4* + - 0 +	005 Preset 8 009 Preset 9 010 Preset 10
Set Region Auto Tracking Settings - Show Tracking	Set All	Clear All	- 4* + - 07 + - 0 +	005 Preset 8 009 Preset 9 010 Preset 10
Auto Tracking Settings		Clear All	- * + - 0 + - 0 +	005 Preset 8 009 Preset 9 010 Preset 10
Auto Tracking Settings	2		- * + - 0 + - 0 +	005 Preset 8 009 Preset 9 010 Preset 10
Auto Tracking Settings . Show Tracking Sensitivity	<b>2</b> 10		- 4 + - 0 + - 0 +	005 Preset 8 009 Preset 9 010 Preset 10
Auto Tracking Settings . Show Tracking Sensitivity Max Tracking Time	<b>2</b> 10		- # + - 07 + - 0 +	005 Preset 8 009 Preset 9 010 Preset 10

Step5. Click for the edit Auto Tracking Schedule which will be synchronized to IP Camera. Note:

Ensure that your camera's version is 4X.7.0.75 or above.

#### Advanced

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

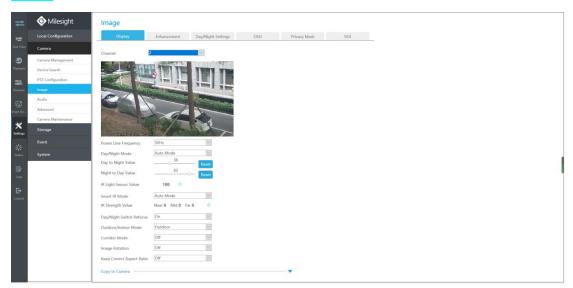
	Milesight	PTZ Configuration
	Local Configuration	PTZ Privacy Mask Auto Tracking Advanced
は こので Yawa Sharkata 読品での Salata しない とない たのの たのの たのの たのの たのの たのの たのの たの		

Note:

- 3. 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.** The PTZ protocol and address of IP channel must be consistent with those of the PTZ decoder.

# 4.8.2.4 Image

Display



#### Step1. Select channel.

Step2. Set the configuration.

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

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

Day to Night Sensitivity: Set the Sensitivity to trigger Night Mode.

Night to Day Sensitivity: Set the Sensitivity to trigger Day Mode.

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.

IR LED Level: Adjust the IR LED level from 1 to 100.

White LED Level: Adjust the White LED level from 0 to 100.

**Smart IR Mode:** With the combination of the High Beam and Low Beam, The IR LEDs technology has been upgraded to provide better image clarity and quality regardless of the object distance. Also, the Low Beam and High Beam's brightness can be adjusted manually or automatically on the basis of the Zoom ratio. Moreover, with the IR anti-reflection panel, the infrared light transmittance is highly increased. Support to set the strength of the IR to Auto Mode or Customize to achieve the best effect. **Near view IR level:** Adjust the light strength of Low-Beams LED light level from 0 to 100.

Far view IR level: Adjust the light strength of High-Beams LED light level from 0 to 100.

IR Strength Value: The current value of Low-Beams LED and High-Beams LED light value.

**Day/Night Switch Refocus:** With this option enabled, the camera will refocus when switching between day mode and night mode.

Outdoor/Indoor Mode: Set Outdoor/Indoor mode for the channel.

Corridor Mode: Set corridor mode.

Image Rotation: Set image rotation.

Local Display Video: Select NTSC or PAL for local display.

**Smoked Dome Cover:** This function is only for Pro Dome. If Pro Dome is equipped with a Smoked Dome Cover, enable this function to display a normal image.

#### Note:

- 1. Smoked Dome Cover is only supported for Pro Dome and PTZ Dome cameras.
- 2. Smart IR Mode and IR LED Level are supported for cameras with IR LEDs.
- 3. White LED Level is only supported for PTZ Bullet cameras.
- 4. Day to Night Sensitivity and Night to Day Sensitivity are only available under Auto Mode when camera are Panoramic Bullet and Mini Bullet whose firmware version is 4X.7.0.74 or above.

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

```
      Copy to Camera
      ▲

      □ Select All
      □

      □ 1
      □ 2
      □ 3
      □ 4
      □ 5
      ■ 6
      □ 7
      □ 8
      □ 9
      □ 10
      □ 11
      □ 12
      □ 13
      □ 14
      □ 15
      □ 16
```

## Step4. Click save to save the settings.

#### Enhancement

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

	💿 Milesight	Display	Enhancement	Day/Night Settings	OSD	Privacy Mask	ROI
		Channel	2	12			
	Local Configuration	Cridinae	Contraction of the local division of the loc				
ave View	Camera			THE TH			
9	Camera Management		12 10				
eyheck	Device Search	271	and the second				
IR letrieve	PTZ Configuration			Statistics			
	Audio			40			
E surt An.,	Advanced		12/-	1 P			
	Camera Maintenance	IR Balance Mode	Off				
* ettings		Reduce Motion Blur	Off	M			
	Event	Defog Mode	Off	×.			
		Digital Image Stabilisation	Off	1. M			
<b>R</b>		White Balance					
Logs		White Balance	Auto White Balance				
E•		Exposure					
Logout		Exposure Mode	Auto Mode	14 M			
		Backlight					
		BLC/WDR/HLC Mode	Single Mode	V			
		BLC/WDR/HLC	BLC	V			
		BLC Region	Off	V.			
		Copy to Camera					
		Save					

Step1. Select channel.

Step2. Set the configuration.

**IR Balance Mode:** Turn on to avoid IR overexposure.

Reduce Motion Blur: Enable this function to reduce the motion blur of objects effectively.

You can adjust the deblur level from 1 to 100.

Defog Mode: Better image effect in foggy weather.

Digital Image Stabilization: Decrease the blur and shakiness of the image.

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

Exposure Mode: Auto Mode, Manual Mode, and Schedule Mode are available.

BLC/WDR/HLC Mode: Click to choose Single Mode, Day/Night Mode or Schedule Mode.



**BLC/WDR/HLC:** Click to configure Back Light Compensation, Wide Dynamic Range or High Light Control.

Wide Dynamic Range: Off, Customize, and On are available.

Wide Dynamic Level: Set WDR with Low/High/Auto level.

**BLC Region:** Off, Customize, and Centre are available (in single mode, only enable when WDR is disable).

**HLC Level:** Select level for HLC.

**Anti-flicker Level:** Reduce flickers that appear on screen in some lighting conditions and there are 10 levels of anti-flicker adjustments.

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

Copy to Camera												-		
🗌 Se	elect All													
□1	□2	□ 3	4		6		8 🗆	□9	□ 10 □ 11	□ 12	□ 13	14	□ 15	□ 16

## Step4. Click save to save the settings.

## Day/Night Settings

₽	📀 Milesight	Image										
-	Local Configuration	Display	Enhancement	Day/Night Settings	OSD Privac	Mask ROI						
	Camera	Channel	2	101								
9	Camera Management											
hybeck	Device Search		THE THE	THE THE								
38	PTZ Configuration	the second										
latriava	Image		And Personnel of Concession									
art Anis	Audio			Contraction of the owner owner owner owner owner owner owne								
said Area.	Advanced	7	2 ab	A CONTRACTOR								
* iettings	Camera Maintenance		States / St	ALL .								
Settings		rationnes b		T								
	Event	Time	Exposure Level	Minimum Shutter	Maximum Shutter	Limit Gain Level	IR-CUT Latency	IR-CUT	IR LED	Color Mode	Edit	Delete
	System	Night	5	1/25	1/100000	100	55	Off	On	B/W	1	1.00
		Day	5	1/25	1/100000	100	55	On	Off	Color	1	1.1
Logs		Add										
E•		Copy to Camera			-							
Legent		Save										

Step1. Select channel.

Step2. Set the configuration.

**Exposure Level:** Level 0~10 are available to meet your need.

**Minimum Shutter:** Set the Minimum Shutter to 1~1/100000s.

Maximum Shutter: Set the Maximum Shutter to 1~1/100000s.

Limit Gain Level: Set the Limit Gain Level to 1~100.

**IR-CUT Latency:** The interval time of switching one mode to another.

**IR-CUT:** Turn on or turn off IR-CUT.

**IR LED:** Turn on or turn off IR-LED.

Color Mode: Select B/W or Color mode under Day/Night mode.

Edit: Edit the parameters above.

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

 Copy to Camera

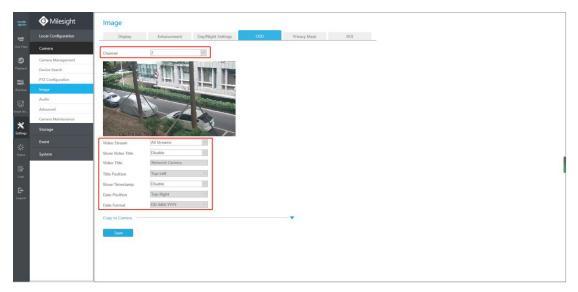
 Select All

 1
 2
 3
 4
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 6
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 11
 12
 13
 14
 15
 16

#### Step4. Click save to save the settings.

## OSD

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



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.

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

```
      Copy to Camera

            Select All
            1
            2
            3
            4
            5
            6
            7
            8
            9
            10
            11
            12
            13
            14
            15
            16
```

#### Step4. Click save to save the settings.

## 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	Image						
=	Local Configuration	Display	Enhanceme	nt Day/N	ht Settings	OSD	Privacy Mask	
	Camera	Channel	5	1				
Ð	Camera Management		C. Astronomy	-				
eck .	Device Search		North Contraction	Kitt.				
R -	PTZ Configuration							
-	Image							
	Audio			1	10			
2 1 An	Advanced							
<	Camera Maintenance		用					
tings			-	THE LEADER				
	Event	Privacy Mask	Enable	2				
		Туре	White	8				
2		Clear All						
4 21		ID	Name E	nable	Delete			
D.		1	Mask1	2	Ŵ			
Logout		2	Mask2	2	御			
		3	Mask3	2	10			
		Note: Support up	to 8 Privacy Mask areas					
		Copy to Camera					-	
		Save						

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 8 areas at most and each zone can be enabled and disabled. Step3. 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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 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16

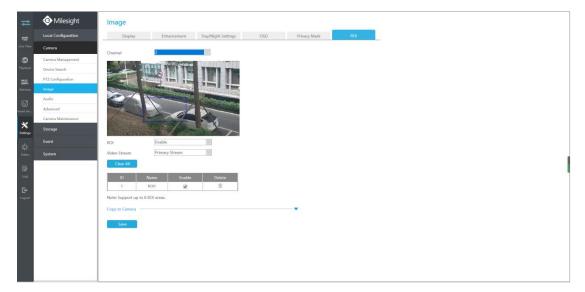
Step4. Click save to save the settings.

#### Note:

Ensure the firmware version of the network camera is 4X.7.0.70 or above.

## ROI

Milesight NVR supports to set ROI (Region Of Interest). It is an image cropping feature designed to assist users in achieving bandwidth and storage optimization.





You can add a ROI by following steps:

Step1. Select channel and enable ROI.

Step2. Set the video stream type and drag the mouse to select the area in the preview window. You can add 8 areas at most and each zone can be enabled and disabled.

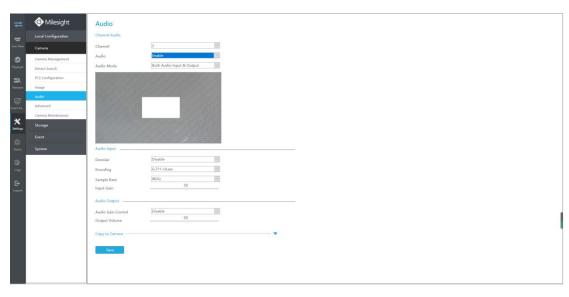
Step3. You can click [Copy to Camera] to copy the same configuration to other channels.

Step4. Click save to save the settings.

## Note:

Ensure the firmware version of the network camera is 4X.7.0.70 or above.

# 4.8.2.5 Audio



This audio function allows to configure audio interface parameters for camera .

Enable Audio: Check on the check box to enable audio feature.

Denoise: Set it as On/Off. When you set the function on, the noise detected can be filtered.

Encoding: G.711-ULaw, G.711-ALaw, AAC LC, G.722 and G.726 are available.

Sample Rate: 8KHz, 16KHz, 32KHz, 44.1KHz, and 48KHz are available.

Audio Bit Rate: The function is available only for AAC LC, and supports up to 256kbps.

Input Gain: Input audio gain level, which is 0-100.

Auto Gain Control: This function is only for H.265 series, improve the quality of audio. Output Volume: Adjust volume of output.

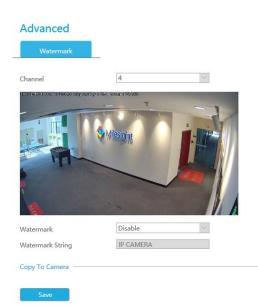
## Note:

Make sure you camera version is xx.7.0.76 or above.

# 4.8.2.6 Advanced

📀 Milesight

# 4.8.2.6.1 Watermark



You can add a watermark by following steps:

- Step1. Select channel.
- Step2. Click the checkbox to enable Watermark.
- Step3. Enter Watermark String.

Step4. Copy the image settings to other channels.

Step5. Select Save to save the settings.

#### Note:

Watermark only appears when exporting by a third party.

# 4.8.2.7 Camera Maintenance

Milesi	iaht	6	ra Maint									
Local Configura	ation	Local	Upgrade	Online Upgrade								
ere Camera		Upgrade										
Camera Manage	ement	Firmware					Browse					
ch Device Search				Reset set	tings to factor	y default (except IP )						
PTZ Configuratio	on			Refresh								
en image		Upgra	ide	Retresh								
Audio			Channel	Channel Name	Stetus	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Upgrade Progress
Advanced			1	CAM1	4	192.168.14.102		ONVIE				
Camera Mainten	nance		2	CAM2	0	192.168.14.103		ONVIE	100316219804	40.7.0.78-r1	MS-C2961-EB	
Storage			3	CAM3	0	192,168,14,104		ONVIF	1CC316238D13	40.7.0.78-r1	M5-C2942-B	
			4	CAM4		192.168.14.105	1	ONVIE	1CC316220D8D	43.7.0.78-r1	MS-C9674-P8	
System												

## Local Upgrade

Ste	<b>p1.</b> Click	Br	owse	to s	elec	t the c	orre	spon	iding fi	irmware.				
≠	Milesight	Came	ra Maint	enance										
-	Local Configuration	Loca	l Upgrade	Online Upgrade										
Live View	Camera	Upgrade												
9	Camera Management	Firmware					Browse							
Playback	Device Search			Reset set	tings to factor	y default (except IP A		er information)						
22.	PTZ Configuration	Upgr	ade	Refresh										
Retrieve	Image		Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC		Model	Upgrade Progress		
62	Audio		Channel	CAM1	Status	192.168.14.102	Channel ID	DNVIF	MAL	Firmware Version	Model	Upgrade Progress		
imart Ari	Camera Maintenance		2	CAM2	•	192.168.14.103		DNVIF	1CC316219804	40.7.0.78-r1	MS-C2961-E8			
*	Storage		3	CAM3	0	192,168,14,104		ONVIE	1CC316238D13	40.7.0.78-r1	MS-C2942-8			
Settings	Event		4	CAM4	0	192.168.14.105	1	DNVIF	1CC316220D8D	43.7.0.78-r1	MS-C9674-P8			
붉는 Status		-												
Status	System													
Logs														
Ð														
Logour														

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

Local Configuration	Local Upgrade	Online Upgrade									
	Local opgrade	Online Opgrade									
Camera	Upgrade										
Camera Management	Firmware				Browse						
Device Search		Reset se	ttings to factory	default (except IP A	Address and Us	er information					
PTZ Configuration	Upgrade	Refresh	-								
Image	Upgrade	Retresh									
Audio	Channel				Channel ID					Upgrade Progress	
Advanced	1	CAM1	4	192.168.14.102		ONVIE					
Camera Maintenance	2	CAM2	0	192,168,14.103		ONVIF	1CC316219604	40.7.0.78-r1	M5-C2961-EB		
Storage	3	CAM3	0	192.168.14.104		ONVIF	1CC316238D15	40.7.0.78-r1	M5-C2942-8		
Event	□ 4	CAM4	0	192.168.14.105	1	ONVIF	1CC316220D8D	43.7.0.78-r1	MS-C9674-P8		

**Step3.** Choose the corresponding channel you want to upgrade and click upgrade the camera.

rade	to

## **Online Upgrade**

Step1. Click

to confirm whether there is a new version for the camera added to NVR;

If there is a new version for camera, the icon in corresponding Upgrade column will turn blue and the latest version will be displayed in Latest Version column.

📀 Milesight	Camera Maintenance
Local Configuration	Local Upgrade Creline Upgrade
Camera	Check Uppmde Refeeth
Camera Management	Check Upgrade Refeeth
B Device Search	Channel Channel Name     Status     IP Address     Channel ID     Protocol     MAC     Firmware Version     Model     Latest Version     Upgrade     Upgrade     Prograss
PTZ Configuration	1 CAM1 🔺 192.168.14.102 - ONVIF 10C216210991 407.0.78-11 MS-C2562-FPB - 🗘 -
Image	1 CAM1 A 192.168.14.102 - ONV/F 1CC316210991 40.7.0.78-r1 MS-C2962-FFB - V
Audio	2 CAM2 2 192.168.14.103 - ONVIF 1CC316219804 487.678-r1 MS-C2961-EB - 🗘 -
Advanced	□         3         CAMA3         Q         192,160,144,104         ONVEF         1CC316238013         402,72,75k-11         MS-C2842-88         .         Q         .           □         4         CAM44         Q         192,160,144,105         1         ONVEF         1CC316220010         433,72,75k-11         MS-C38474-PB         -         Q         -
Camera Maintenance	4 CAWA 12C182.IR-I03 1 UNWIF TIC231220080 43-JU2/811 193-C39/478 - U
Econt System	

**Step2.** There are two ways to confirm the upgrade.

① Click the blue icon in corresponding Upgrade column to upgrade camera.

÷	Milesight	Cam	era Mai	ntenance										
	Local Configuration		al Upgrade	Online Upgra										
			ai opgrade	while opgra										
	Camera		heck	Upgrade	Refres	h								
1	Camera Management				_									-
ĸck	Device Search		and the second second second	Channel Name	Status	IP Address		Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrade Progress
	PTZ Configuration		1	CAM1 CAM1	A A	192.168.14.102 192.168.14.102		ONVIE	1CC316210991 1CC316210991	40.7.0.78-r1 40.7.0.78-r1	MS-C2962-FP8 MS-C2962-FP8		Ŷ	
	Image		2	CAM1 CAM2	ō	192.168.14.102		ONVIE	100316210991	40.7.0.78-r1	MS-C2962-FPB MS-C2961-E8		9 \$	
	Audio		3	CAM2 CAM3	0	192.168.14.103		ONVIE	1CC316219804	40.7.0.78-r1	MS-C2901-EB		ŵ	
	Advanced		4	CAM4	0	192,168,14,105	1	ONVIE	1CC316230D13	43.7.0.78-r1	MS-C9674-P8		* \$	
ļ	Camera Maintenance													
ł	Storage													
		1												

2 A way to achieve batch upgrade. Just select the cameras you want to upgrade and then click
 Upgrade button.



Local Configuration	Loca	Upgrade	Online Upgrad	le l										
Camera														
Camera Management	Ch	rek	Voprede	Refres	h									
Device Search		Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrade Progress	
PTZ Configuration		1	CAM1		192,168,14,102		ONVIE	1CC316210991	40.7.0.78-r1	MS-C2962-FPB		Ŷ		
Image		1	CAM1		192.168.14.102		ONVIE	100316210991	40.7.0.78-r1	MS-C2962-FPB		Ŷ		
ludio		2	CAM2	0	192.168.14.103		ONVIE	100316219804	40.7.0.78-r1	MS-C2961-E8		Ŷ		
		-3	CAM3	0	192.168.14.104		ONVIF	1CC316238D15	40.7.0.78-r1	MS-C2942-8		Ŷ		
Idvanced		4	CAM4	0	192.168.14.105	1	ONVIE	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB		Ŷ		
Storage														
Event														
Event														

# 4.8.3 Storage

## **Preparation for Configuration**

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



# 4.8.3.1 Video Record

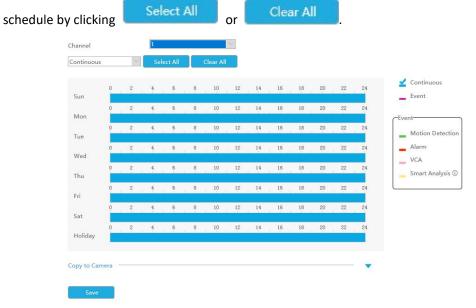
**Record Schedule** 

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

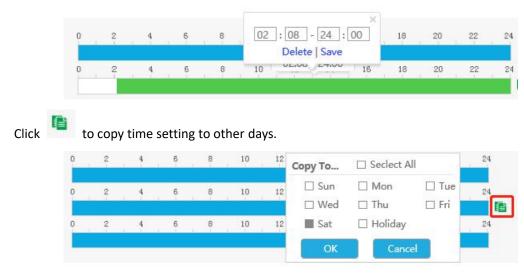
	📀 Milesight	Video Record
-	Local Configuration	Record Schedula Batch Settings Record Settings
		Channel
	Storage	Continuous 2 Continuous 3
eyhick.	Video Record	s 6 Continuous
19.	Snapshot	6 2 7 2 14 16 18 20 22 24 Communica
riese	General Settings	0 2 4 6 0 10 12 14 15 18 20 22 24
2 1.44	Disk Management	0         2         4         6         10         12         16         18         20         22         24           Tue         Tue         Motion Detection         Motion         Motion Detection         Motion         Motion
	System	D 2 4 6 8 10 12 14 16 18 20 22 24 Aarm
K Sings	System	Wed VCA
		Thu Start Analysis ()
÷		Fri 0 2 4 6 6 10 12 14 16 19 20 22 24
£.		Sat 0 2 4 6 8 10 12 14 15 19 20 12 24
<u>.</u>		Holday
÷		
post.		Copy to Camera
		Save

### Step3. Set record schedule.

Select record type including Continuous, Event (including Motion Detection, Alarm, VCA and Smart Analysis), then set the time you want to record. It is convenient for you to set or clear all



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



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

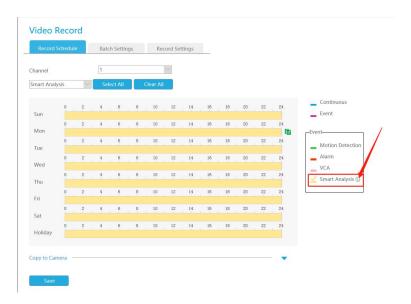
```
        Copy to Camera
        A

        Seclect All
        1
        1
        2
        3
        1
        4
        1
        5
        16
        10
        11
        12
        13
        14
        15
        16
```

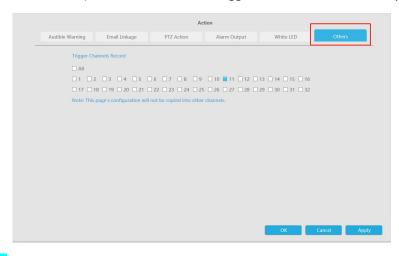
#### Note:

Here are steps for setting ANPR record correctly so that NVR will record when license plate is detected.

**Step1:** Set Smart Analysis as Record Type in Storage -> Video Record -> Record Schedule interface; The exclamation mark next to Smart Analysis is used to indicate that Smart Analysis includes ANPR.



Step2: Ensure Black List Mode or White List Mode or Visitor Mode is enabled as your demand.Step3: Effective time and Trigger Channels Record action of Black List Mode/White List Mode/Visitor Mode are set (Full effective time and trigger channel record are set by default).



### **Batch Settings**

Record and Stop are available for user to set for selected channels.

Video Record	0	
Record Schedule	Batch Settings	Record Settings
Channel CH1	Record []	Stop 🗌
CHS	0	
CH2		0
CH4	0	0
CHS		
CH6		
CH0 CH7		0
CH8		0
Cris		- tul
Record: Selected chann	els will be set to continu	ous record.
	' continuous schedule w	
Save		

#### **Record Settings**

Make record settings for selected channels.

#### Video Record

Record Schedule	Batch Settings	Record Settings
Channel	1	~
Pre Record	Disable	$\sim$
Post Record	Disable	~
Audio Record	Enable	$\sim$
Record Stream Type	Primary+Secondary	/ Stream
Video Due Time	Unlimit	~
ANR	Disable	$\sim$
Copy to Camera		

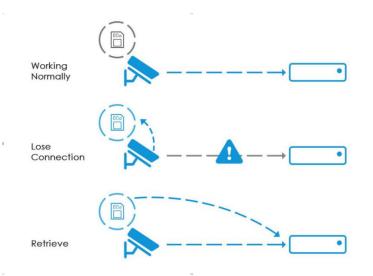
Channel: Select the channel which will be set.

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. If secondary stream is selected for recording while it is disabled, a prompt indicating that the secondary stream is unavailable will pop up.

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

**ANR (Automatic Network Replenishment) :** Can automatically replenish the recording gap due to internet interruptions. As the picture shows below, NVR stores videos when the network connection between NVR and cameras is normal. When the connection lost, the camera would start continuous recording and store videos in SD card instead. Then after reconnection, NVR automatically retrieves the missed videos from camera's SD card in a period of time to prevent data missing.



Here are some notes for using ANR below:

#### Note:

1. Ensure that your devices are with the correct firmware versions.

Camera: V4X.7.0.72 or above

NVR: V7X.9.0.6 or above

Firmware download link: https://www.milesight.com/support/download#firmware

- 2. Camera should equipped with on-board SD card.
- 3. Camera should be added to NVR by MSSP protocol.
- 4. No matter whether NVR has recording schedule or not, camera will do ANR recording and then retrieve back to NVR after reconnection.

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

 Copy to Camera
 Image: Copy to Camera

 Seclect All
 Image: Copy to Camera
 Image: Copy to Camera

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 Image: Copy to Camera
 Image: Copy to Camera

# 4.8.3.2 Snapshot

#### Snapshot Schedule

Step1. Select Record Schedule.

Step2. Select the desired channel.

#### Step3. Set record schedule.

Select operation type: Continuous, Event or Erase.Event record includes events like Motion Detection, Alarm, VCA and Smart Analysis, which can be searched in Event Playback. Set the time

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

Select All

or Clear All

	📀 Milesight	Snapshot
	Local Configuration	Snapshot Schedule Batch Settings Snapshot Settings
		Channel 1
l ick	Storage	Continuous Select All Clear All
1	Video Record	0 2 4 6 8 10 12 14 16 18 20 22 24 🗹 Continuous
	Snapshot General Settings	Sun Event
	Disk Management	Mon Event
2] 1 An	Event	Tue 0 2 4 6 8 10 12 14 16 18 20 22 24 Motion Detection
«	System	0 2 4 6 8 10 12 14 16 18 20 22 24 Alarm Wed
bings		Thu
÷ tus		0 2 4 6 8 10 12 14 16 18 20 22 24
è.		0 2 4 6 8 10 12 14 16 10 20 22 24 Set
s pr		0 2 4 6 8 10 12 14 16 18 20 22 24 Holiday
put		Copy to Camera
		1 ANI 1 1 2 3 4 5 6 7 8
		Save

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

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

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

### **Batch Settings**

Snapshot and Stop are available for user to set for selected channels. Start Snapshot: Selected channels will be set to continuous snapshot. Stop Snapshot Selected channels' continuous schedule will be erased.

₽	📀 Milesight	Snapshot
	Local Configuration	Snapshot Schedule Batch Settings Snapshot Settings
Live View		
9	Storage	
Playback	Video Record	
Retrieve	Snapshot	Start Snapshot Stop Snapshot
	General Settings	Start Snapshot: Selected channels will be set to continuous snapshot.
Smart An	Disk Management Event	Stop Snapshot: Selected channels' continuous schedule will be erased.
X Settings	System	
NZ		
랐. Status		
Logs		
Ŀ		
Logout		

### **Snapshot Settings**

Make general configuration for selected channels. Click [Copy to Camera] to copy the same configuration to other channels.

Channel: Select the channel which will be set.

Snapshot Interval: Set the snapshot Interval, 3~86400 seconds are available.

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

₽	🔷 Milesight	Snapshot	
	Local Configuration	Snapshot Schedule Batch Settings Snapshot Settings	
Live Vese	Camera	Chunnel 1 I	
9	Storage	Snupshot Interval 10 Seconds V 10–86400 Seconds	
Playback	Video Record	Snapshot Due Time Unlimit	
Retrieve	Snapshot	Copy to Camera 🔷	
	General Settings Disk Management		
nart An.	Event	Save	
*	System		
Settings			
Status			
Degr			
E.			
the ground of			

### Note:

Some models support continuous snapshot function.

# 4.8.3.3 General Settings

₽	< Milesight	General Setti	ngs
	Local Configuration	Recycle Mode	Enable
	Camera	eSATA Function	Storage Backup
ລ	Storage	Save	
obade	Video Record		
R	Snapshot		
triove.	General Settings		
2	Disk Management		
	Event		
×	System		
ettings			
*			
itatus			
logs			
D+			
tuqut			

**Recycle Mode:** You can enable or disable Recycle Mode for all storage device. **eSATA Function:** Both storage and backup are available.

### Note:

eSATA Function is only available for NVR 8000 Series.

# 4.8.3.4 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.

Disk N	lanagemer	nt						
HDD Ma	anagement	Network Disk						
	Port	Vendor	Status	Total(GB)	Free(GB)	Туре	Property	Delete
	2	WDC WD2500BEVT-08A23T1	Normal	232	0	LOCAL	R/W	
Total Capa	city(GB)	232						
Available C	Capacity(GB)	0						
Refres	sh Save	Initialize						

### **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				
		al Configuration     Notes Data       rece     Dia Name       region     Dia Name       in Namio     Directory       reconfiguration     Type       Nadi     Directory       in Namio     Directory				
	Local Configuration	HDD Management NHtwork Disk				
		Disk Name				
9	Storage					
layteck	Video Record					
38	Snapshot	and the second se				
Latriana	General Settings					
ଟ୍ଟ 📘		Add Batch Add Delete				
		No. Edit Delete	Disk Name	IP Address	Directory	Туре
×			Network Disk1	192.168.7.84	/volume1/NAS	NAS
5 W 4 W						

You can add it manually or search local NAS by clicking

ype NAS 🗹 Ser	ver Address		Search	]
•		File Path		

Batch Add

# 4.8.3.5 Storage Mode

### Quota

You can configure the storage capacity of each channel, including snapshots and recording, making storage allocation more flexible.

	💿 Milesight	Storage Mode					
-	Local Configuration	Quota	Group				
		Quota	Disable	10			
ລ	Storage	Channel	1	U			
deach .	Video Record	Used Record Capacity (GB	78				
R.	Snapshot	Used Snapshot Capacity (C	8) 1				
xieve.	General Settings	Record Quota (GB)	78	4-16384			
2 1 An.,	Disk Management	Snapshot Quota (G8)	0	4~16384			
An.,	Storage Mode	Note: 0GB means no quot.	, whose priority is lower th	an the one has quota.			
۲		Copy to Carnera			¥		
tings		Save					
te K							
42		Channel	Channel Name	Used Record Capacity (G8)	Used Snapshot Cepacity (GB)	Record Quote (GB)	Snapshot Quota (GB)
		1	CAM1	78	1	78	0
15		2	CAM2	78	4	.78	0
æ.:			CAM3	571	0	78	0
		- 4	CAM4	536	0	78	0
		5	CAM5	78	0	78	0
1							
		6	CAM6 CAM7	78	0	78	0

Step 1. Enable Quota.

$\cap$		-	i.	
ų	ч	0	La	

|--|

Step 2. Select the channel on which you want to enable Quota. Then the used record capacity and the used snapshot capacity of the corresponding channel are automatically displayed.

Channel	1
Used Record Capacity (GB)	78
Used Snapshot Capacity (GB)	1

Step 3. Set Quota for record and snapshot separately. And the Quota range from 4 to 16384 GB. The default value is 0 GB.

Record Quota (GB)	78	4~16384
Snapshot Quota (GB)	0	4~16384
Step 4. Click Save to take effect t	he configuration of the current in	terface.
Click to expand "Copy to Camera", the	en the Quota configuration of the	e selected channel can
be copied to the channel you want, and clic	ck Save to take effect th	e configuration.



Сору	to Ca	mera	-												
	l.														
<b>V</b> 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														

The Quota status of each channel will be displayed in a table at the bottom of the Storage Mode -> Quota interface.

#### Group

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

₽	📀 Milesight	Storage Mode
÷	Local Configuration	Cuota Group
Live View	Camera	Group Mode Enable 1
9	Storage	Group 2
Playback	Video Record	Channel 🗌 All
Retrieve	Snapshot	
	General Settings	
Smart An	Disk Management Storage Mode	
	Event	
X Settings	System	
ste		Note: You can set disk into other groups at Disk interface after Group enabled.
÷¦€ Status		
₽		
logs		
E+		
Logout		

Step 1. Enable Group.

Group Mode	Enable	Y
가 집에 가지 않는 것이 같은 것이 같은 것이다.	-17	

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

disk.

Note:

You can add 16 groups at most.

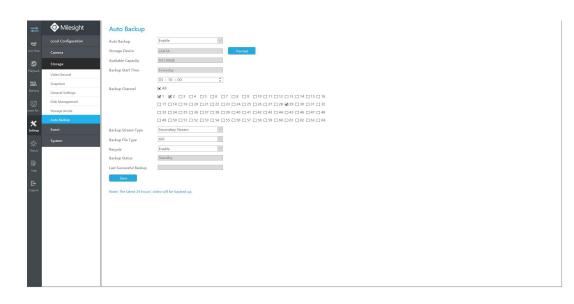
₽	📀 Milesight	Disk Manageme	nt								
		HOD Management	Network Disk								
Live View		Port	Vendor	Status	Total(GB)	Free(GB)	Property	Туре	Group	Edit	Delete
9		□ ×	WDC WD20E2RX-00DC0E0	Normal	1863	0	R/W	LOCAL	2	1	~
Nayback	Video Record	Total Capacity(G8)	1863								
<b>2</b> 8	Snapshot	Available Capacity(GB)	0		Disk Edi	t					
latriova:	General Settings	Refresh Initia	Fictor 11	Port	3						
<u>E</u>	Disk Management	-		Capacity	1863 GB						
art An.	Storage Mode			Group	2	1					
×				Property	R/W	M					
Settings	System										
No.					OK	Cancel					
R											
8											
4											
iout.											



Quota	Group
Group Mode	Enable
Group	2
Channel	
	□ 33 □ 34 □ 35 □ 36 □ 37 □ 38 □ 39 □ 40 □ 41 □ 42 □ 43 □ 44 □ 45 □ 46 □ 47 □

Note: You can set disk into other groups at Disk interface after Group enabled.

# 4.8.3.6 Auto Backup



Step 1. Enable Auto Backup.		
Auto Backup	Enable	$\sim$
Step 2. Click Format to format the	eSATA disk.	
Storage Device	eSATA	Format
Step 3. Set Backup Start Time.		
Step 3. Set Backup Start Time. Backup Start Time	Everyday	

**Step 4.** Check the checkbox to select Backup Channel. You can also click **•** All to select all channels.

**Step 5.** Set Backup Stream Type to Primary Stream or Secondary Stream.

**Step 6.** Set Backup File Type to MP4, AVI or PS.

**Step 7.** You can enable or disable Recycle Mode for Auto Backup function.

**Step 8.** Click to save the settings, the latest 24 hours' video will be automatically backed up to eSATA.

Note:

① You can check Auto Backup status in the Backup Status bar, the corresponding status is as

follows.

- No Storage Device
- Unsupported Storage Device Format
- Standby
- Working (xx%)

② If there are already successfully backed up videos, the time when the backup ends will be

displayed in Last Successful Backup bar.

③ Only NVR 8000 Series supports Auto Backup function.



# 4.8.4 Event

# 4.8.4.1 Motion Detection

ŧ	Milesight	Motion Detection
-	Local Configuration	Channel Event
Live View		Channel 6
9	Storage	Motion Detection
Playback	Event	Region Settings
	Motion Detection	
Patriava -	Video Loss	
5	Alarm Input	
Smart An	Alarm Output	
×	Exception	
	VCA	
兴; Stenn	System	
		Set All Clear All
lik Lops		Region Settings
		Sensitivity 5
E+ Logout		Effective Time Edit
1996		
		Copy to Camera
		Save

## Step 1. Enable Motion Detection.

Select channel , Sensitivit	y and click 🛛 🗹	to enable Motion Detection.

# **Motion Detection**

Channel	6	
Motion Detection		
Region Settings		
Set All	Clear All	
Region Settings	-10	
Sensitivity	5	

### 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



### 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

						E	ffective	Time							
Select Al		Clea	r All												
Sun	0	2	4	6	1	8	10	12	14	16	18	20	22	24	
Mon	0	2	4	6	1	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	6		8	10	12	14	16	18	20	22	24	
Thu	0	2	4	6	1	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	
										_				_	
											ОК		Cance	1	Apply

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

Select All or

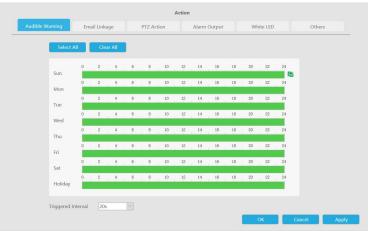
Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Triggered 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

Select All or

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Clear All

Click 💷 to copy time setting to other day.

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

Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

Audible Warning     Email Linkage     PTZ Action     Alarm Output     White LED     Others       Sum     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       Mon     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       Fri     0     2     4     6     8     10     12     14     16     18     20     22     24       Heidday     2     4     6     8     10     12     14     16     18     20     22     24				_				Action								
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         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         Got       2       4       5       8       10       12       14       16 <th>udible Warning</th> <th>Em</th> <th>ail Linka</th> <th>ige</th> <th></th> <th>PTZ A</th> <th>ction</th> <th></th> <th>Alarm</th> <th>Output</th> <th></th> <th>Wh</th> <th>nite LED</th> <th></th> <th>Other</th> <th>s</th>	udible Warning	Em	ail Linka	ige		PTZ A	ction		Alarm	Output		Wh	nite LED		Other	s
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         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         Got       2       4       5       8       10       12       14       16 <th>_</th> <th>-</th> <th></th>	_	-														
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         Thu       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		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         Thu       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         Holiday       0       2       4       6       8       10       12       14	Sun	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         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         Gat       2       4       6       8       10       12       14       16       18       20       22       24         Gat       2       4       6       8       10       12       14       16       18       20       22       24         Holdiday       2       4       5       8       10       12       14       16       18 <t< td=""><td>Mon</td><td></td><td>-</td><td>, i</td><td></td><td>, in the second se</td><td>10</td><td></td><td></td><td>10</td><td>10</td><td>10</td><td>LL.</td><td></td><td></td><td></td></t<>	Mon		-	, i		, in the second se	10			10	10	10	LL.			
Wed       0       2       4       6       0       10       12       14       16       10       20       22       24         Thu       0       2       4       6       8       10       12       14       15       18       20       22       24         Fri       0       2       4       6       8       10       12       14       15       18       20       22       24         Sat       0       2       4       8       8       10       12       14       15       18       20       22       24         Holiday       2       4       8       8       10       12       14       15       18       20       22       24         Holiday       2       4       8       8       10       12       14       15       18       20       22       24         Holiday       20       2       4       8       8       10       12       14       15       18       20       22       24	Tue	0	2	4	6	8	10	12	14	16	18	20	22	24		
0     2     4     6     0     10     12     14     16     18     20     22     24       Thu     2     2     4     6     0     10     12     14     16     18     20     22     24       Fri     0     2     4     6     0     10     12     14     16     18     20     22     24       Sat     0     2     4     6     0     10     12     14     16     18     20     22     24       Holiday     -     -     -     -     -     -     -     -     -     -	Wed	0	2	4	6	8	10	12	14	16	18	20	22	24		
0       2       4       6       8       10       12       14       15       18       20       22       24         Fri       0       2       4       5       8       10       12       14       15       18       20       22       24         Sat       0       2       4       5       8       10       12       14       15       18       20       22       24         Holiday       2       4       8       8       10       12       14       15       18       20       22       24	wed	0	2	4	6	8	10	12	14	16	18	20	22	24		
Fri 0 2 4 5 8 10 12 14 16 18 20 22 24 Sat 0 2 4 6 8 10 12 14 18 18 20 22 24 Holiday Triggered Interval	Thu					1.1	de des		de de	de este est						
Sat 0 2 4 6 8 10 12 14 16 18 20 22 24 Holiday Triggered Interval	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 Holiday Triggered Interval	Sat	0	2	4	6	8	10	12	14	16	18	20	22	24		
Triggered Interval 20s		0	2	4	6	8	10	12	14	16	18	20	22	24		
	Holiday															
	Trippered I	-														
Lindote	Picture Atta	iched	Er	hable	$\sim$							_			_	Ар

**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line on the time table for time setting. It will be more convenient by clicking

Clear All Select All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click ¹ to copy time setting to other day.

or



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

### And you can add PTZ Action.

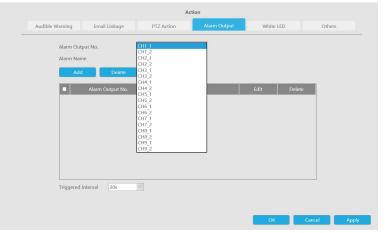
annel Se	elect Channel 💟	Action Type	Preset	No.		
Add	Delete					
	Channel	Edit	Delete	Action Type	No.	

**Channel:** Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.



White LED: Trigger White LED flashing when alarm is triggered.

Drag a line 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.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

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

Audible Warning	Em	iail Linka	ige		PTZ A	ction		Alarm	Output					Others	
Select		Class	n All												
Select		Clea	ir 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		6	1				12	19		10	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		
Inu	0	2	4	6	8	10	12	14	16	18	20	22	24		
Fri	0		4		8	10	12	14	16	18					
Sat		2	1	6		10	12	19	16	10	20	22	24		
Holiday	0	2	4	6	8	10	12	14	16	18	20	22	24		
Triggered I	nterval	20s													

And you can add White LED.

White LED: Channel Select Channel Add Dele	Flash Mode	Twinkle	Flash Time ————————————————————————————————————	- Reset	
Channel	Edit	Delete	Flash Mode	Flash Time	
				OK Cano	el Apply

**Channel:** Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

		0	Action		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Trigger Ch	annels Record				
<ul> <li>All</li> </ul>					
🗹 1 🔲 2	3 4 5 6	5 🗆 7 🔲 8			
Trigger Ch	annels Snapshot				
<ul> <li>All</li> </ul>					
☑ 1 □ 2	□ 3 □ 4 □ 5 □ 6	5 🗆 7 🗖 8			
Note: This	page's configuration will	not be copied into oth	ner channels.		
				ОК	Cancel Appl

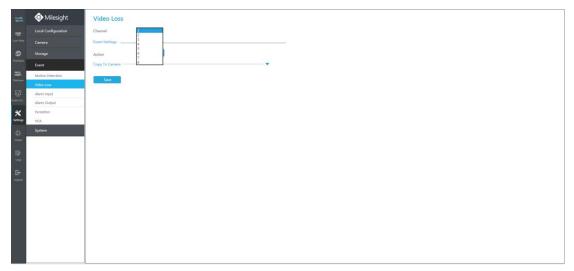
### Note:

Make sure you have set correct schedule for record and snapshot before setting the Event Action.

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

# 4.8.4.2 Video Loss

### Step1. Select a channel



### 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

Select All or

Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

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

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

Select /	M	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	o	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

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

Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

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

arning					PTZ Ac	tion		Alarm	Output		Wh	ite LED	
Select All		c	ear Al										
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	. 1	6	, 8	10	12	14	16	18	20	22	24
Wed	0	2	. 1	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	. 1	6	8	10	12	14	16	18	20	22	24
Holiday	0	2		6	8	10	12	14	16	18	20	22	24

**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line on the time table for time setting. It will be more convenient by clicking

Select All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Clear All

Click 💼 to copy time setting to other day.

or

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

Select	All	Cle	ar All											
	0	2	4	6	8	10	12	14	16	18	20	22	24	
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24	
Mon														
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	
weu	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	
	o	2	4	6	8	10	12	14	16	18	20	22	24	
Holiday														

### And you can add PTZ Action.

TZ Action:	lect Channel 🖂	Action Type	Preset	No.		
Add	Delete					
	Channel	Edit	Delete	Action Type	No.	
				ОК	Cancel	Apply

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

**Alarm Output:** Trigger alarm output when alarm is triggered. For NVR alarm output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera alarm output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. **Triggered Interval:** The effective interval between two actions when event triggered.

Alarm Output	No.	CH1_1 CH1_2			
Alarm Name		CH2_1 CH2_2			
Add	Delete	CH3_1 CH3_2			
		CH4_1 CH4_2			
	Alarm Output No.	CH5 1	Edit	Delete	
		CH5_2 CH6_1			
		CH6 2			
		CH7_1 CH7_2			
		CH8_1 CH8_2			
		CH9_1			
		CH9_2			
	1 20	101			
Triggered Inte	rval 20s				

White LED: Trigger White LED flashing when alarm is triggered.

Drag a line on the time table for time setting. It will be more convenient by clicking

Select All or

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Clear All

Click 💼 to copy time setting to other day.

Select	All	Clea	ır All											
	0	2	4	6	8	10	12	14	16	18	20	22	24	
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														
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24	
Thu	0	2	. 3	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	
Sat	0	2	4	6	8	10	12	14	16	18	20	22	24	
Holiday														

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

And you can add White LED.

White LED Channel	Select Channel	Flash Mod	le Twinkle	Flash Time —0	Reset
	Channel	Edit	Delete	Flash Mode	Flash Time

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

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

```
      Copy to Camera

            All
            1
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        64
```

# 4.8.4.3 Alarm Input

## 4.8.4.3.1 NVR Alarm Input

Alarm Input function is supported by MS-N5008-UC, MS-N5008-UT, MS-N5016-UT, MS-N7016-UH, MS-N7032-UH, MS-N8032-UH, MS-N8064-UH, MS-N5008-UPC, 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 Settings

NVR Alarm Input	Camera Alarm Input	-55
Alarm Input No.	1	$\mathbf{v}$
Alarm Name		(cannot copy)
Alarm Type	NO	~

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 effective time for alarm input.

Step3. Set action for alarm input.

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

Select All or

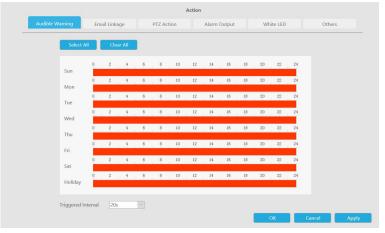
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Clear All

Click 📕 to copy time setting to other day.

Triggered 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

Select All Or Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

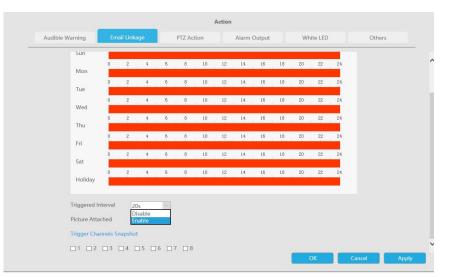
Click 📕 to copy time setting to other day.

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

**Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event capture attached.

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





**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line on the time table for time setting. It will be more convenient by clicking

Select All or

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Clear All

Click 💷 to copy time setting to other day.

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

Select	AII	C	ear All												
Select	All	G	ear An												
Sun	0	2	. 4	6	8	10		12	14	16	18	20	22	24	
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		- f	1.1	, e	Ŷ	10		12	19	10	10	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	
Inu	0	2	4	6	8	10		12	14	16	18	20	22	24	
Fri	0		4		8			10	14	16	18	20		24	
Sat		2	1	Ŷ	8	10		12	14	10	10	20	22	24	
Holiday	0	2	. 4	6	8	10		12	14	16	18	20	22	24	

#### And you can add PTZ Action.

hannel Se	elect Channel	Action Type	Preset	No.	/	
Add	Delete	Edit	Delete	Action Type	No.	
				ОК	Cancel	Apply

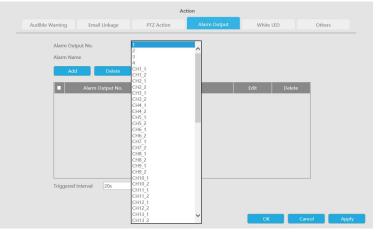
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

**No.:** Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR alarm output, the relevant

alarm output will be first listed, that is, 1,2.etc, as for camera alarm output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. **Triggered Interval:** The effective interval between two actions when event triggered.



White LED: Trigger White LED flashing when alarm is triggered.

Drag a line on the time table for time setting. It will be more convenient by clicking

Select All

Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📕 to copy time setting to other day.

or

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

Audible Warning		ail Li	incage	-	_		1127	Action		-	Alla		output	-		ite LED		Others
Sele	et All	(	lear.	All														
	0	2		4		Б	8		10	12	. 1	4	16	18	20	22	24	
Sun	0	2		4		6	8		10	12	. 1	4	16	18	20	22	24	
Mon			_							40			10	40	~			
Tue	0	2		4		В	8		10	12	1	۹.	16	18	20	22	24	
Wed	0	2		4	. 1	Б	8		10	12	1	٩.,	16	18	20	22	24	
	0	2		4	. 1	Б	8		10	12	1	4	16	18	20	22	24	
Thu		2		4	_	6	8	_	10	12	1	4	16	18	 20	22	24	
Fri																		
Sat	0	2		4		B	8	1	10	12	1	4	16	18	20	22	24	
Holida	o ay	2		4		6	8		10	12	1	4	16	18	20	22	24	

And you can add White LED.

White LED: Channel Select Channel	Flash Mode	Twinkle	Flash Time —0—3	– Reset
Add De	elete			
Channel	Edit	Delete	Flash Mode	Flash Time

**Channel:** Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Start recording and snapshot when alarm is triggered.



Trigger selected channels to record and snapshot when alarm is triggered. Don't forget to set correct schedule for recording and snapshot.

		A	ction		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Trigger Ch	annels Record				
🔽 All					
🗹 1 🗹 2	<b>2</b> 3 <b>2</b> 4 <b>5</b> 6	5 🗹 7 📝 8			
Trigger Ch	annels Snapshot				
🗹 All					
☑ 1 🗹 2	<b>2</b> 3 <b>2</b> 4 <b>2</b> 5 <b>2</b> 6	5 🗹 7 🔽 8			
Note: This	page's configuration will	not be copied into othe	r channels.		
				ОК	Cancel Apply

Step 4. Click [Copy to Alarm] and 💻 to copy the same configuration to other alarm channels.

Сору	to Cam	iera —													-
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	0 61	□ 62	□ 63	□ 64

# 4.8.4.3.2 Camera Alarm Input

Milesight NVRs support the upgrade of Milesight Cameras.

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

# **Alarm Input Settings**

	and the second sec	
NVR Alarm Input	Camera Alarm Input	-8
Channel	2	$\sim$
Alarm Input No.	1	$\times$
Alarm Input		
Alarm Name	ſ.	(cannot copy)
Alarm Type	NO	$\sim$

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.

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

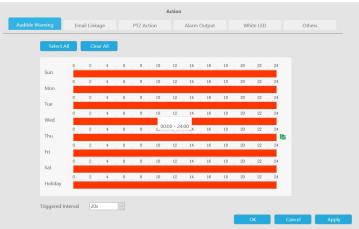
Select All Or Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 🔳 to copy time setting to other day.

Triggered 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

Select All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Clear All

Click 💼 to copy time setting to other day.

or

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

**Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

udible Warning			PTZ Action	Alarm Output	White LED	Others
udible Warning	Email Linkaç	Je	1Z Action	Alarm Output	White LED	Otners
Sun						
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						
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	
Triggered I	interval 20s					
Picture Atta	Dis	able				
		ible				
	annels Snapshot					
	□ 3 □ 4 □	5 16 17	□ 8			

**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line on the time table for time setting. It will be more convenient by clicking

Select All or

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Clear All

Click 📠 to copy time setting to other day.

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

Audible Warning		nail Link			PTZ A			Alarm		-		iite LED		Others
Select	All	Cle	ar All											
Sun	0	2	4	6	8	1.00	:00 - 24:	00_4	16	18	20	22	24	
Mon	0	2	4	6	8	10	12	14	16	18	20	22	24	3
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	
Triggered		10												

### And you can add PTZ Action.

hannel S	elect Channel	Action Type	Preset	No.		
Add	Delete Channel	Edit	Delete	Action Type	No.	

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

**No.:** Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant

alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. **Triggered Interval:** The effective interval between two actions when event triggered.

		A	tion		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Alarm Ou Alarm Na Ad	me	CH1_1 CH1_2 CH2_1 CH2_2 CH2_2 CH3_1			
	Alarm Output No.	CH8_2 CH4_1 CH4_2 CH5_1 CH5_2 CH5_2 CH5_2 CH6_2 CH7_1 CH6_2 CH7_2 CH8_1 CH8_2 CH8_1 CH8_1 CH8_2		Edit Delete	
Triggered	l Interval 10s	9			

White LED: Trigger White LED flashing when alarm is triggered.

Drag a line 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.

Moreover, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

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

							Actio	n						
le Warning	Em	ail Linka	ge		PTZ /	Action		Alarm	Output		Wh	ite LED		Othe
Select Al		Clea	ir 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	
Triggered Int		20s												

And you can add White LED.

Channe	el Select Channel	✓ Flash Mod	e Twinkle 🖂	Flash Time —O	Reset
· · ·	Add De	elete			
					Flash Time
	1	1	Ŵ	Twinkle	1
-					
	2	1	Ŵ	Twinkle	2

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.



Others: Trigger selected to channels record and snapshot when alarm is triggered.

		Α	lection		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
 Trigger Ch	nannels Record				
All					
☑ 1 ☑ 2	2 🛛 3 🖉 4 🖉 5 🖉 6	<b>⊠</b> 7 <b>⊠</b> 8			
Trigger Ch	nannels Snapshot				
All					
🗹 1 🔽 2	2 2 3 2 4 2 5 2 6	<b>2</b> 7 <b>2</b> 8			
Note: This	page's configuration will no	ot be copied into oth	er channels.		
				ОК	Cancel Apply

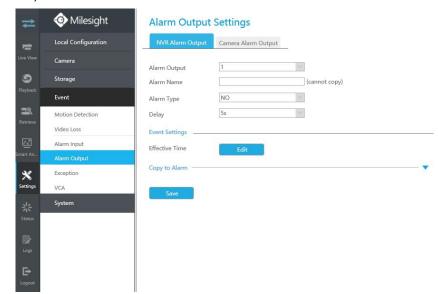
**Step 3.** Click [Copy to Camera] and to copy the same configuration to other channels.

Сору	to Carr	nera —								
🗌 All										
1	2	3	4	5	6	7	8	9		

# 4.8.4.4 Alarm Output

## 4.8.4.1 NVR Alarm Output

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



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

Alarm Output 9	Settings
----------------	----------

NVR Alarm Output	Camera Alarm Output	<u>-22</u>
Alarm Output	1	$\sim$
Alarm Name		(cannot copy)
Alarm Type	NO	$\vee$
Delay	5s	~

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

Alarm Type: Select alarm type: NO or NC.

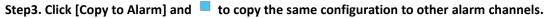
**Delay:** Set the output time for alarm. If the output alarm lasts too long, you can select the Manually Clear to stop it.

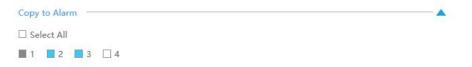
Alarm Name: Set a name for the alarm.



📀 Milesight







## 4.8.4.4.2 Camera Alarm Output

Milesight NVRs support the upgrade of Milesight Cameras.



Ħ	📀 Milesight	Alarm Output	Settings	
	Local Configuration	NVR Alarm Output	Camera Alarm Output	27
Live View	Camera	Channel	2	
9	Storage	Alarm Output	1	~
Playback	Event	Alarm Name		(cannot copy)
Retrieve	Motion Detection	Alarm Type	NC	$\geq$
reuneve	Video Loss	Delay	5s	~
2	Alarm Input	Event Settings		
imart An	Alarm Output	Effective Time	Edit	
×	Exception			
Settings	VCA	Copy to Camera		
쑸	System	Save		
Status				
Logs				
E+ Logout				



# Alarm Output Settings

NVR Alarm Output	Camera Alarm Output	-1
Channel	2	×
Alarm Output	1	$\sim$
Alarm Name		(cannot copy)
Alarm Type	NC	$\sim$
Delay	5s	$\sim$

Alarm Output: The alarm output number of the corresponding channel which has input 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.





Copy to Alarm	
Select All	
■ 1 ■ 2 ■ 3 □ 4	

# 4.8.4.5 Exception

### Step1. Select Exception Type.

Exception Type Trigger Action

Network Disconnected
Disk Full
Record Failed
Disk Error
Disk Uninitialized
No Disk

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.

# Exception

Exception Type
Trigger Action

Network Disconnected	
Disk Full	
Record Failed	
Disk Error	
Disk Uninitialized	
No Disk	

Step 2. Select Action includes Event Notification, Audible Warning, Email Linkage and Alarm Output.

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.

Trigger Interval: Set the interval to send Emails when detecting Record Failed Event (Only Record Failed Event can set interval when sending alarm Emails).

**NVR Alarm Output:** NVR will trigger the corresponding Alarm Output.

Event Notifica	ation	
Audible Warr	ning	
- Email Linkage	9	
Trigger Interval	20s	$\sim$
- NVR Alarm O	utput—	
□ 1		

# 4.8.4.6 VCA

It 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.

**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.

Step 1. Select channel.



÷	📀 Milesight	VCA							
-	Local Configuration	Region Entrance	Region Exiting	Advanced Motion Det	Tamper Detection	Line Crossing	Loitering	Human Detection	Object Left/Removed
		Channel Event							
	Storage	Channel	1	2					
hack	Event	Region Entrance	2						
K -	Motion Detection	Region Settings							
ieve:	Video Loss		TIL	3					
Z	Alarm Input		<b>Wissight</b>	11-110-1					
tA.,	Alarm Output	A REL	4						
<b>€</b> ings	Exception								
*: ****	System	8							
5		Set Region	Set All	Clear All					
		Object Size Limits	Edit	Reset					
út.		Maximum Size(1x1-320 Maximum Size(1x1-320							
		Event Settings							
		Sensitivity		5					
		Effective Time	Edit						
		Action	Edit						
		Save							

## Step 2. Enable Region Entrance.

Region Entrance 🗹

## 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 Cle	ear All
Region Settings	
	C Miesignt
Set All	Clear All

For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



#### Step 4. Set Sensitivity to trigger event.

	5
Sensitivity	

# **Step 5. Select the Detection Object.**

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.

Detection Object 🗹 Human 🗹 Vehicle

# Note:

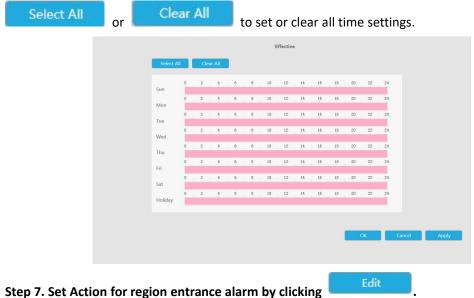
(1) Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

(2) Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

# Step 6. Set Effective Time of region entrance by clicking

Edit

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

Select All Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 💷 to copy time setting to other day.

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

Select /	di i	Cle	ar All											
	0	2	4	6	8	10	12	14	16	18	20	22	24	
Sun														
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	
	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



to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

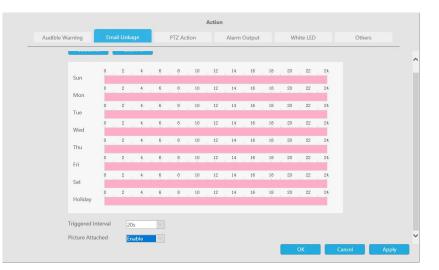
Clear All

or

Click 📕 to copy time setting to other day.

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

**Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line on the time table for time setting. It will be more convenient by clicking

Select All

to set or clear all time settings.



Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

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

				_			Action							
Audible Warning	Ema	iil Linki	age		PTZ A	ction		Alarm	Output		Wh	ite LED	Other	
_	_													
Select A	<u>'</u>	Cle	ar All											
	0	2	4	6	8	10	12	14	16	18	20	22	24	
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24	
Mon		4	1	, °	Ŷ	10	12	14	10	10	20	22	24	
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24	
ruc.	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	
	o	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		Ť	. 7		, i	10	12	1.14	10	10	20			
Holiday	0	2	4	6	8	10	12	14	16	18	20	22	24	
Honday													-	
Triggered In	terval	205												
riggered in											_	016		
												DK	Cancel	1

And you can add PTZ Action.

PTZ Action: Channel Select Channel	Action Type	e Preset 💟	No. 📉 🖂	
Add Del	ete			
Channel	Edit	Delete	Action Type	No.

**Channel:** Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

**Alarm Output:** Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. **Triggered Interval:** The effective interval between two actions when event triggered.

		A	ction			
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Othe	ers
Alarm Output Alarm And	:No. Delete Alarm Output No.	CHI 1           CHI 2           CH2 1           CH2 1           CH2 2           CH3 1           CH3 2           CH4 1           CH4 2           CH5 2           CH7 2           CH8 2           CH8 2           CH9 1           CH9 2		Edit De	lete	
Triggered Inte	erval 20s					
				ОК	Cancel	Apply

White LED: Trigger White LED flashing when alarm is triggered.

Drag a line 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.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

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

							Action	1					_	
Audible Warning	Er	nail Link	age		PTZ Act	tion		Alarm	Output		W	nite LED		Others
Sele	t 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	
	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	
Holida	y													
Triggere	d Interval	20	s											
												ок	0	ancel Ap

And you can add White LED.

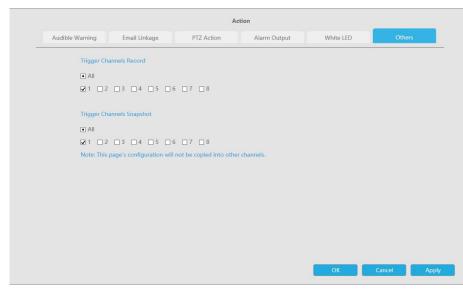
hanne	el Select Channe	I 🗹 Flash Mo	de Twinkle 🗸	Flash Time —0	Reset
,	Add C	Delete			
	Channel	Edit	Delete	Flash Mode	Flash Time

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record when alarm is triggered.



Step 7. Set Minimum Size and Maximum Size.

Minimum Size(1x1~320x240)	3	х	3
O Maximum Size(1x1~320x240)	320	х	240



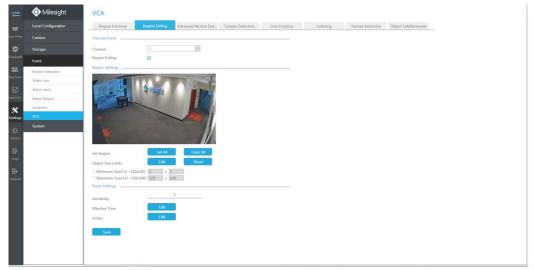
**Minimum Size:** The Min. Size means that only if the object size is bigger than the frame, the settings for Region Entrance will take effect.

**Maximum Size:** The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Region Entrance will take effect.

## **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.



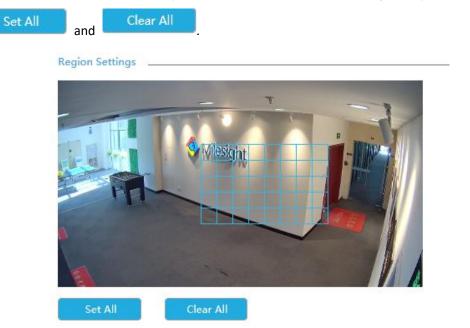
Step 2. Enable Region Exiting.

Region Exiting

# 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

~





For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



#### Step 4. Set Sensitivity to trigger event.

# Sensitivity

5	
ő	

Edit

# **Step 5. Select the Detection Object.**

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.



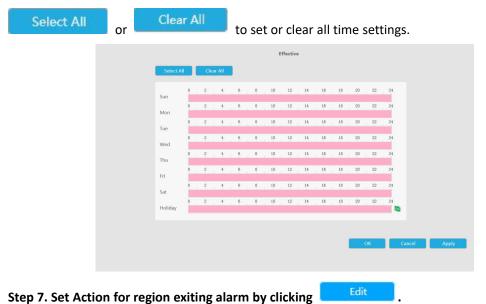
# Note:

(1) Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

(2) Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

#### Step 6. Set Effective Time of region exiting by clicking

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



www.milesight.com

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

Select All or Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 💷 to copy time setting to other day.

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

			Action		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Select A	dl Clear All	l			
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		18 20 22 24	
Thu	0 2 4	6 8 10 6 8 10		18 20 22 24	
Fri	0 2 4	6 8 10		18 20 22 24	
Sat Holiday	0 2 4	6 8 10	12 14 16	18 20 22 24	
Holiday					
Triggered In	20s				
				ОК Са	ncel 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

Select All or Clear All

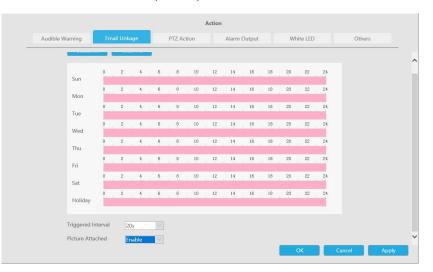
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 💷 to copy time setting to other day.

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

**Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.



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

Drag a line on the time table for time setting. It will be more convenient by clicking

Select All Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

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

Select	All	Cle	ar All											
	0	2	4	6	8	10	12	14	16	18	20	22	24	
Sun	D	2	, 4	6	8	10	12	14	16	18	20	22	24	
Tue	0	2	. 1	6	8	10	12	14	16	18	20	22	24	
Wed	0	2		6	8	10	12	14	16	18	20	22	24	
Thu	0	2	4	6	8	10	12	14	16 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														

And you can add PTZ Action.

PTZ Action: Channel Select Ch	annel 🖂	Action Type	e Preset 🗸	No.	
Add	Delete				
Channe	4	Edit	Delete	Action Type	No.

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

**No.:** Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

		Ac	tion			
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Othe	ers
Alarm Out Alarm Nar Adt	ne Delete Alarm Output No.	CHP 1 CHP 2 CH2 1 CH2 1 CH2 1 CH3 1 CH3 1 CH4 1 CH4 2 CH5 1 CH5 1 CH5 2 CH5 2 CH5 1 CH5 2 CH5 1 CH5 2 CH5 2		Edit Dei	etc	
				ОК	Cancel	Appl

White LED: Trigger White LED flashing when alarm is triggered.

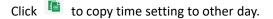
Drag a line on the time table for time setting. It will be more convenient by clicking





to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.



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

							Action						_	
Audible Warning	Em	ail Linka	ge		PTZ Act	tion		Alarm	Output	_	Wh	ite LED	_	Others
Select A	JI (	Clea	ir 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 20	22 22	24	
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24	
Sat	0		4	6	8	10	12		16	18	20	22	24	
Holiday														
Triggered Ir	nterval	20s												
											(	эк	Car	icel

And you can add White LED.

White LED: Channel Select Ch	annel 🖂 Flash I	vlode Twinkle	Flash Time	Reset
Add	Delete			
Channe				

**Channel:** Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

**Others:** Trigger selected channels to record and snapshot when alarm is triggered.

		1	Action		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Trigger Ch	annels Record				
<ul> <li>All</li> </ul>					
☑ 1 🗆 2	3 4 5 6	7 🗆 8			
Trigger Ch	annels Snapshot				
<ul> <li>All</li> </ul>					
🗹 1 🔲 2	□ 3 □ 4 □ 5 □ 6	7 8			
Note: This	page's configuration will r	not be copied into oth	er channels.		
				ОК	Cancel App

Step 8. Set Minimum Size and Maximum Size.



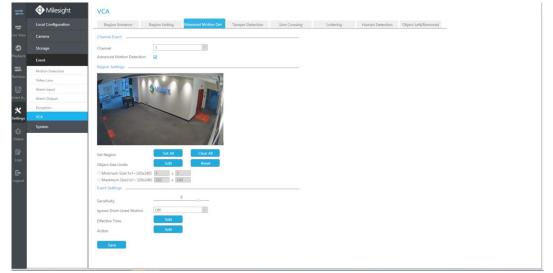
Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Region Exiting will take effect.

**Maximum Size:** The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Region Exiting will take effect.

#### **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.

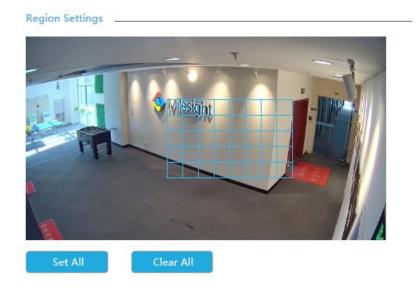
Advanced Motion Detection 🛛 🖌

#### 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







For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



#### 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.

Sensitivity



## **Step 5. Select the Detection Object.**

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.

Detection Object

🗹 Human 🛛 🗹 Vehicle

# Note:

(1) Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

(2) Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

Step 6. Set Ignore Short-Lived Motion.

The motion within the set time is ignored and won't trigger the alarm, making the detection more accurate and efficient.

Ignore Short-Lived Motion
Effective Time
Action

Off	
1s	
2s	
3s	
4s	
5s	

Edit

# Note:

📀 Milesight

Make sure your camera's version is 4X.7.0.77 or above.

# Step 7. 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.
		Effective Select All Clear All
		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           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           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
		Holiday 0, 2, 4, 9, 9, 10, 12, 14, 16, 10, 20, 22, 24 Holiday OK Cancel Apply
Step 7. Set Actio	n for ad	lvanced 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

Select All or Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📕 to copy time setting to other day.

Select Al		Clea	ar All											
	0	2	4	6	8	10	12	14	16	18	20	22	24	
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24	
Mon		1						1	10	10	20	-		
Tue	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	
	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	

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

Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📕 to copy time setting to other day.

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

**Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

	-			-											
Sun	0	2	4		1	8	10	12	14	16	18	20	22	24	
Mon	0	2	. 4		ē.,	8	10	12	14	16	18	20	22	24	
Tue	0	2	. 4		5	8	10	12	14	16	18	20	22	24	
Wed	0	2	. 4		3	8	10	12	14	16	18	20	22	24	
	0	2	. 4		5	8	10	12	14	16	18	20	22	24	
Thu	0	2	. 4		5	8	10	12	14	16	18	20	22	24	
Fri	0	2	4		5	8	10	12	14	16	18	20	22	24	
Sat	0	2	4		3	8	10	12	14	16	18	20	22	24	
Holiday															
Triggered Ir	tonial		!0s												

**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line 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.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

				_		_	Actio	n							
Audible Warning	Ema	il Linka	ge		PTZ	Action	_	Alarm	Output		WH	ite LED		Oth	ers
Select	All	Clea	ir All												
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24		
Mon	D	2	4	6	8	10	12	14	16	18	20	22	24		
Tue	0	2	4	6	, 8 ₁	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															
Triggered	Interval	20s													
												DK		Cancel	Ар

And you can add PTZ Action.

Channel Select Channel	Action Typ	e Preset 🗸	No.	
Add De	elete			
Channel	Edit	Delete	Action Type	No.

**Channel:** Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

**Alarm Output:** Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. **Triggered Interval:** The effective interval between two actions when event triggered.

		A	ction		
Audible Warning E	mail Linkage	PTZ Action	Alarm Output	White LED	Others
Alarm Output No Alarm Name Add Ala	Delete rm Output No.	HU 1 HI 2 HI 2		Edit Delete	
Triggered Interva	al 20s	~			
				ОК	Cancel App

White LED: Trigger White LED flashing when alarm is triggered.

Drag a line 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.

Moreover, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

 _							 								 	
Select All		Cle	ar All	_												
	0	2	4		6	8	10	12	14	16	18	20	22	24		
Sun	0	2	4		6	8	10	12	14	16	18	20	22	24		
Mon					Ť											
Tue	0	2	. 4		6	8	10	12	14	16	18	20	22	24		
100	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		
	0	2	. 4		в	8	10	12	14	16	18	20	22	24		
Fri		2	4		6	8	10	12	14	16	18	20	22	24		
Sat		Ĩ	- 1		,	, i	10				10		-			
Holiday	0	2	4		6	8	10	12	14	16	18	20	22	24		
rioliday																
Triggered Inte		20														

And you can add White LED.

White LED: Channel Select Channel Select Channel Delete	Flash Mode	Twinkle	Flash Time — 3	- Reset
Channel	Edit	Delete	Flash Mode	Flash Time

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

		ļ	ction		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Trigger	Channels Record				
I All					
☑ 1 🗆	]2 🗌 3 🔲 4 🔲 5 🔲 6	5 🗌 7 🔲 8			
Trigger	Channels Snapshot				
<ul> <li>All</li> </ul>	channels shapshot				
	]2 _3 _4 _5 _6	5 🗆 7 🗖 8			
	nis page's configuration will		er channels.		
				ОК	Cancel Appl
					Cancer
Minimum Siz	o and Mavim	Num Sizo			

#### Step 8. Set Minimum Size and Maximum Size.

O Minimum Size(1x1~320x240)	3	х	3
O Maximum Size(1x1~320x240)	320	х	240

**Minimum Size:** The Min. Size means that only if the object size is bigger than the frame, the settings for Advanced Motion Detection will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the

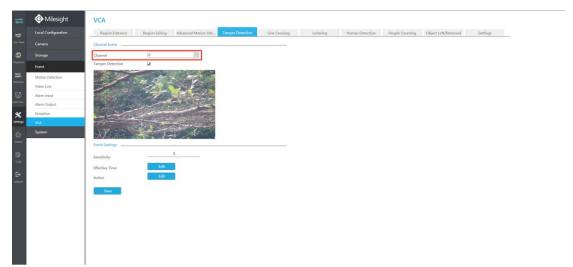


frame you drew on the screen, the settings for Advanced Motion Detection will take effect.

### **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

~

#### 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



Clear All

to set or clear all time settings.

Non         2         4         6         9         10         12         14         16         10         20         22         24           Tue         2         4         6         9         10         12         14         16         18         20         22         24           Tue         2         4         6         9         10         12         14         16         18         20         22         24           Wed         2         4         6         9         10         12         14         16         16         20         22         24           Mod         2         4         6         9         10         12         14         16         16         20         22         24           Mod         2         4         6         9         10         12         14         16         19         20         22         24           Fri         2         4         6         9         10         12         14         16         19         20         22         24           Sat         2         2         4         6	0 0       2       4       6       0       10       12       14       16       10       22       24         0       2       4       6       0       10       12       14       16       10       20       22       24         ed       0       2       4       6       0       10       12       14       16       10       20       22       24         ed       0       2       4       6       0       10       12       14       16       10       20       22       24         uu       0       2       4       6       0       10       12       14       16       10       20       22       24         uu       0       2       4       6       0       10       12       14       16       10       20       22       24         i       0       2       4       6       0       10       12       14       16       10       20       22       24         i       0       2       4       6       0       10       12       14       16       10       20		24	24	22	20	18	16	14	12	10	8	6	4	2	0	Sun
0         2         4         6         9         10         12         14         16         19         20         22         24           Wed         0         2         4         6         9         10         12         14         16         18         20         22         24           Wed         0         2         4         6         9         10         12         14         16         18         20         22         24           Thu         0         2         4         6         9         10         12         14         16         18         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           Sat         0         2         4         6         9         10         12         14         16         18         20         22         24	0     2     4     6     8     10     12     14     15     18     20     22     24       0     2     4     6     8     10     12     14     15     18     20     22     24       Ved     0     2     4     6     8     10     12     14     15     18     20     22     24       vu     0     2     4     6     8     10     12     14     15     18     20     22     24       vu     0     2     4     6     9     10     12     14     15     18     20     22     24       i     0     2     4     6     9     10     12     14     15     18     20     22     24       i     0     2     4     6     9     10     12     14     15     18     20     22     24       i     0     2     4     6     9     10     12     14     15     18     20     22     24		24	24	22	20	18	16	14	12	10	8	6	4	ę,	0	Mon
Wed         0         2         4         6         9         10         12         14         16         15         20         22         24           Thu         0         2         2         4         6         9         10         12         14         16         16         20         22         24           Thu         0         2         2         4         6         9         10         12         14         16         18         20         22         24           Fi         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           Sat         0         2         4         6         9         10         12         14         16         18         20         22         24	0     2     4     6     9     10     12     14     16     18     20     22     24       0     2     4     6     9     10     12     14     16     18     20     22     24       10     0     2     4     6     9     10     12     14     16     18     20     22     24       11     0     2     4     6     9     10     12     14     16     19     20     22     24       12     14     16     19     20     22     24       14     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	24	24	22	20	18	16	14	12	10	8	6	4	2	0	
Thu         0         2         4         6         0         10         12         14         16         10         20         22         24           Fri         0         2         4         6         0         10         12         14         16         18         20         22         24           Sat         0         2         4         6         0         10         12         14         16         18         20         22         24	NU 0 2 4 6 9 10 12 14 16 19 20 22 24 1 0 2 4 6 9 10 12 14 16 19 20 22 24 11 0 2 4 6 9 10 12 14 16 19 20 22 24 0 2 4 6 9 10 12 14 16 18 20 22 24	0 2 4 6 8 10 12 14 16 18 20 22 24	24	24	22	20	18	16	14	12	10	8	6	4	2	0	
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	i 0 2 4 6 8 10 12 14 16 18 20 22 24 11 0 2 4 6 8 10 12 14 16 18 20 22 24	0 2 4 6 8 10 12 14 18 18 20 22 24	24	24	22	20	18	16	14	12	10	8	6	4	2	0	
0         2         4         6         9         10         12         14         16         15         20         22         24           Sat         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 0 2 4 6 9 10 12 14 16 19 20 22 24		24	24	22	20	18	16	14	12	10	8	6	4	2	0	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	0 2 4 6 8 10 12 14 16 18 20 22 24	24	24	22	20	18	16	14	12	10	8	6	4	2	0	
		0 2 4 6 8 10 12 14 16 18 20 22 24	24	24	22	20	18	16	14	12	10	8	6	÷.,	2	0	

Step 5. Set Action for tamper 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

Select All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

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

						4	Action							
udible Warning	Em	ail Linl	kage		PTZ Ac	tion		Alarm	Output		Wh	ite LED		Others
Select	All	d	ear All											
	0	2	4	6	8	10	12	14	16	18	20	22	24	
Sun	0	2	. 4	6	8	10	12	14	16	18	20	22	24	5
Mon	0	2	4	6	8	10	12	14	16	18	20	22	24	
Tue														
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	
Tionady														
Triggered	Interval	20	)s											
											(	ЭK	T	Cancel

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

Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

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

**Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

Select All

**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line on the time table for time setting. It will be more convenient by clicking

Select All or

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Clear All

Click 📠 to copy time setting to other day.

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

			_			Action	n						
Audible Warning	Emai	l Linkage		PTZ A	tion		Alarm (	Dutput		Whi	te LED		Others
Selec	All	Clear 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			10	12	14	16	18	20	22	24	
Thu	0	2 4		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													
Triggered	Interval	20s								_			
										C	ж	Cancel	^

And you can add PTZ Action.

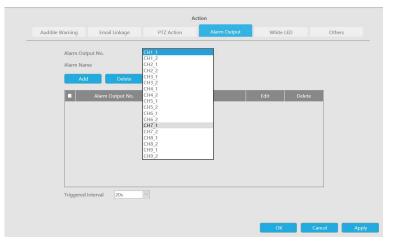
PIZ Action: Channel Select Channel Action Type Preset No. Add Delete Channel Edit Delete Action Type No.

**Channel:** Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number.



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

White LED: Trigger White LED flashing when alarm is triggered.

Drag a line 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.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

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

							Action						_	
Audible Warning	Em	nail Link	age		PTZ Ac	tion		Alarm	Output		Wh	ite LED	_	Others
Select	All	Cle	ar All											
	0	2	4	6	8	10	12	14	16	18	20	22	24	
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		8	10	12	14	16	18	20	22	24	
Holiday														
Triggered	Interval	20	s											
											(	ЭК	Car	ncel A

And you can add White LED.

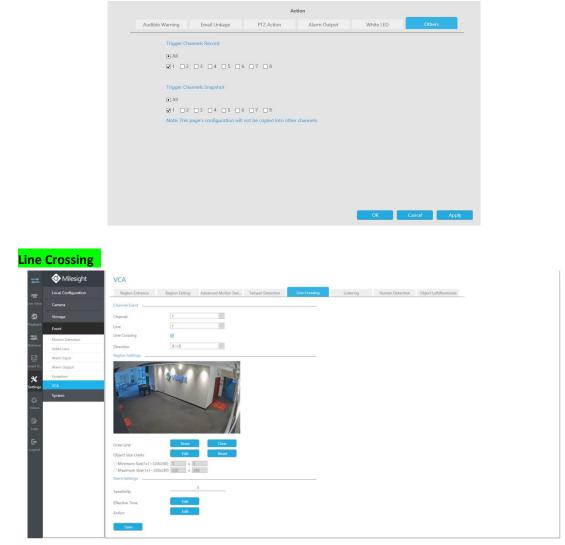
Channel Select Channel	Flash Mod	le Twinkle 🗹	Flash Time —O	- Reset
Add D	elete			
Channel	Edit	Delete	Flash Mode	Flash Time

**Channel:** Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.



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 and choose detection line number.

## Step 2. Enable Line Crossing.

Channel	4	~
Line	1	Ŷ
Line Crossing		

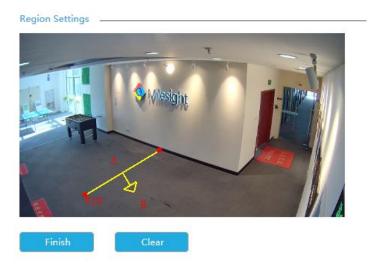
#### Step 3. Define its direction.

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.

Direction	A->B	V

## Step 4. Draw detection lines.

Milesight



#### Step 5. 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.

~								21.		
S		n	C	Ē.	ti	n.	n	Ť١	15	
-	0		5	æ,	u	. 1	1.8	×.	у	



# **Step 6. Select the Detection Object.**

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.

Detection Object

🖌 Human

🖌 Vehicle

# Note:

(1) Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

(2) Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

Step 7. 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.

	Effective
	Select All Clear All
	0 2 4 6 8 10 12 14 16 18 20 22 24
	Sun 0 2 4 6 8 10 12 14 16 18 20 22 24 Mon
	Tue
	0 2 4 6 8 10 12 14 16 18 20 22 24 Wed
	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 Fri
	Sat 0 2 4 6 8 10 12 14 16 18 20 22 24
	Holiday
	OK Cancel Apply
	OK Cancel Apply
a 7 Cat Action fo	Edit
J 7. Set Action to	r line crossing alarm by clicking

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

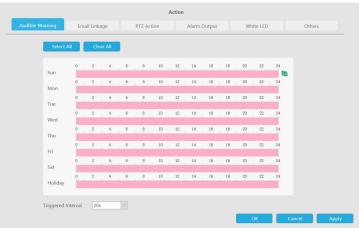
Drag a line on the time table for time setting. It will be more convenient by clicking

Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

Triggered 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

Select All or

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Clear All

Click 📕 to copy time setting to other day.

**Triggered Interval:** The effective interval between two actions when event triggered. **Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

udible Warning					T7 A	ction		Alore	n Outp			White	LED		Others	
Joible Warning	Lin .		aye		 12 A	cuon		AldII	noutp	uı		vvnite	e LED		Others	
Sun	0	2	4	e	8	10	12	14	16	16	2	0	22	24		
Mon	0	2	. 4	e	8	10	12	14	16	18	. 2	0	22	24		
Tue	0	2	. 4	e	8	10	12	14	16	16	. 2	0	22	24		
	0	2	4	e	8	10	12	14	16	16	2	0	22	24		
Wed	0	2	4	e	8	10	12	14	16	18	2	0	22	24		
Thu	0	2	. 4	e	8	10	12	14	16	18	1 2	:0	22	24		
Fri	0	2	4	e	8	10	12	14	16	16	. 2	:0	22	24		
Sat	0	2	4	e	8	10	12	14	16	16		:0	22	24		
Holiday																
Triggered Ir	iterval	2	0s													
Picture Atta	ched	1	isable													

**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line 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.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

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

Sel	ect All	Cle	ar All											
_														
Sun	0	2	. 1	6	8	10	12	14	16	18	20	22	24	
	D	2	. 4	6	8	10	12	14	16	18	20	22	24	
Mon														
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24	
Wed	D	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	
	D	2	. 4	6	8	10	12	14	16	18	20	22	24	
Sat	0					10	10	14		10			24	
Holid		2	4	6	8	10	12	14	16	18	20	22	24	
													_	

And you can add PTZ Action.

Channel Select Channel	Action Type	e Preset 🗸	No. 📃 🖂	
Add De	elete			
Channel	Edit	Delete	Action Type	No.

**Channel:** Select the channel which supports this function.

Action Type: Preset and Patrol are available.

**No.:** Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

		A	ction		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Alarm Outy Alarm Narr Add	Alarm Output No.	511 1 CH1 2 CH2 1 CH2 1 CH2 1 CH2 1 CH2 1 CH2 1 CH2 1 CH3 1 CH		Edit D	elete
Triggered I	Interval 20s				

White LED: Trigger White LED flashing when alarm is triggered.

Drag a line 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.

Moreover, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

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

									Acti	on								
Audible Warning	Er	mail	Linka	age		PTZ	Acti	on			Alarm	Output		w	hite LED	_	Other	\$
Selec	t All		Cle	ar All														
Sun	0		2	4	6	e		10	1	2	14	16	18	20	22	24		
Mon	0		2	4	6	. •		10	1	2	14	16	18	20	22	24		
Tue	0		2	4	6	. 8		10	1	2,	14	16	18	20	22	24		
Wed	0		2	4	6	. 4		10	1	2 ,	14	16	18	20	22	24		
Thu	o		2	4	6			10	1	2,	14	16	18	20	22	24		
Fri	0		2	4	6			10	1	2,	14	16	18	20	22	24		
Sat	0		2	4	6			10	1	2 ,	14	16	18	20	22	24		
Holida	y O		2	4	6	8		10	1	2	14	16	18	20	22	24		
Triggered	d Interval		20s															
inggerei															OK		ancel	A

And you can add White LED.

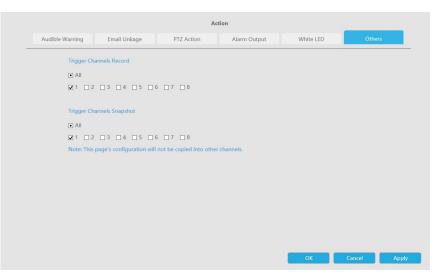
Channel	Select Channel	Flash Mode	Twinkle	Flash Time3	Reset
Ad	d Deleti	e			
	Channel	Edit	Delete	Flash Mode	Flash Time

**Channel:** Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

**Others:** Trigger selected channels to record and snapshot when alarm is triggered.



#### Step 8. Set Minimum Size and Maximum Size.

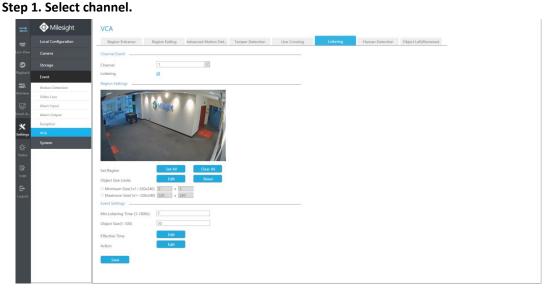
O Minimum Size(1x1~320x240)	3	х	3
O Maximum Size(1x1~320x240)	320	x	240

**Minimum Size:** The Min. Size means that only if the object size is bigger than the frame, the settings for Line Crossing will take effect.

**Maximum Size:** The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Line Crossing will take effect.

# Loitering

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



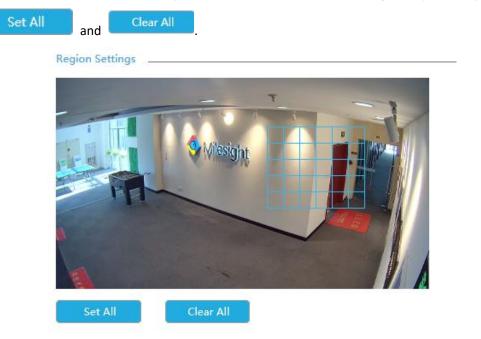
# Step 2. Enable Loitering.

Loitering

 $\checkmark$ 

# 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

For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



# Step 4. Set Min. Loitering Time.

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

Min.Loitering Time (3-1800s) 7

# Step 5. Select the Detection Object.

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.

Detection Object

🖌 Human

✓ Vehicle

# Note:

(1) Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

2 Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle



detection object.

# Step 6. Set Object Size.

Also Milesight loitering allows to set "Object Size". Only the object bigger than the set size will trigger the alarm.

Object Size(1-100)

30		
	Edit	

Step 7. Set Effective Time of loitering by clicking

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

elect All	or	Clear	All	to se	et or c	ear a	all tir	ne s	ettin	gs.	
					Effective	>					
		Select All	Clear All								
		Sun	0 2 4	6 8	10 12	14 10	5 18	20	22 24		
		Mon	0 2 4	6 8	10 12	14 1	8 18	20	22 24		
		Tue	0,2,4,	6 8	10 12	14 1	8 18	20	22 24		
		Wed	0 2 4	6 8	10 12	14 10		20	22 24		
		Thu	0 2 4	6 8	10 12	14 10		20	22 24		
		Frí	0 2 4	6 8	10 12	14 10		20	22 24		
		Sat	0 2 4	6 8	10 12	14 1		20	22 24		
		Holiday									
								Ok		Cancel	Apply
							dia.	0			

# Step 8. Set Action for loitering 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

Select All

Clear All to set or clear all time settings.

.. . . . . . . .

Moreover, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

or

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

							Action							
Audible Warning	En	nail Linka	age		PTZ Ac	tion		Alarm	Output		Wh	ite LED		Others
Sele	ect All	Clea	ar All											
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24	
Suit	0	2	4	6	8	10	12	14	16	18	20	22	24	
Mon														
Tue	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	
Wed														
Thu	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														
Sat	0	2	. 4	6	8	10	12	14	16	18	20	22	24	
Holida	o ay	2	4	6	8	10	12	14	16	18	20	22	24	
		200												
Inggen	ed Interval	20s									_			
													Ca	ncel Apply

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

Select All

Drag a line on the time table for time setting. It will be more convenient by clicking

Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click ^I to copy time setting to other day.

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

**Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

dible Warning					PTZ A	ction		Alarm	Output		Wh	ite LED		Other	rs
										- 1.					
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				8	10	12	14	16	10		-	24		
Tue	0	2	4	6	ů	10	12	14	16	18	20	22	24		
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	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		
rioliday															
Triggered I	nterval	2	0s												
Picture Atta	- la - al		isable												

**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line on the time table for time setting. It will be more convenient by clicking

Select All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Clear All

Click 💼 to copy time setting to other day.

or

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

				_		8	Action						
Audible Warning	Ema	iil Linki	age		PTZ A	ction		Alarm	Output		Whi	te LED	Others
Select Al		Cle	ar All										
	0	2	4	6	8	10	12	14	16	18	20	22	24
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	0												
Tue		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
	0	2	. 4	6	8	10	12	14	16	18	20	22	24
Holiday													
Triggered Int	erval	205											
											C	ж	Cancel

And you can add PTZ Action.



Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

**No.:** Select the number of Preset or Patrol.

**Alarm Output:** Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. **Triggered Interval:** The effective interval between two actions when event triggered.

			tion		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Alarm Outp Alarm Name Add		CH1 1           CH1 2           CH2 1           CH2 2           CH3 1           CH3 2           CH4 1           CH4 1           CH5 1           CH5 2           CH6 1           CH6 2           CH7 1           CH7 2           CH8 1           CH8 2           CH9 1           CH9 2		Edit Delet	2
Triggered Ir	nterval 20s	$\sim$			
				ок	Cancel Ap

White LED: Trigger White LED flashing when alarm is triggered.

Drag a line on the time table for time setting. It will be more convenient by clicking

Select All or Clear All to set or clear a

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

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



And you can add White LED.

📀 Milesight 🔰 Milesigh

Channel S	Select Channel	Flash Mode	Twinkle 🗸	Flash Time —O	- Reset
Add	Delete				

**Channel:** Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

		Α	ction		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Trigger Ch	annels Record				
<ul> <li>All</li> </ul>					
🗹 1 🔲 2	3 4 5 6	i 🗌 7 🔲 8			
Trigger Ch	annels Snapshot				
I All					
🗹 1 🔲 2	3 4 5 6	7 🗆 8			
Note: This	page's configuration will	not be copied into oth	er channels.		
				ОК	Cancel Apply

#### Step 9. Set Minimum Size and Maximum Size.

O Minimum Size(1x1~320x240)	3	x	3	
O Maximum Size(1x1~320x240)	320	x	240	

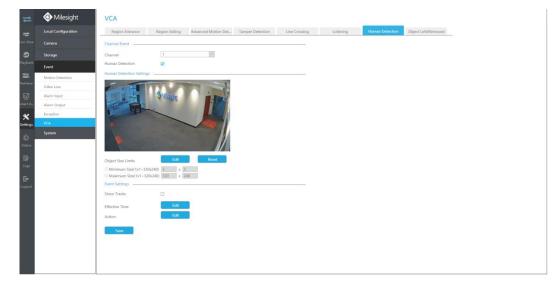
Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Loitering will take effect.

**Maximum Size:** The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Loitering will take effect.

#### **Human Detection**

Human detection is used for figuring out whether an object is a human or not. **Step 1. Select channel.** 







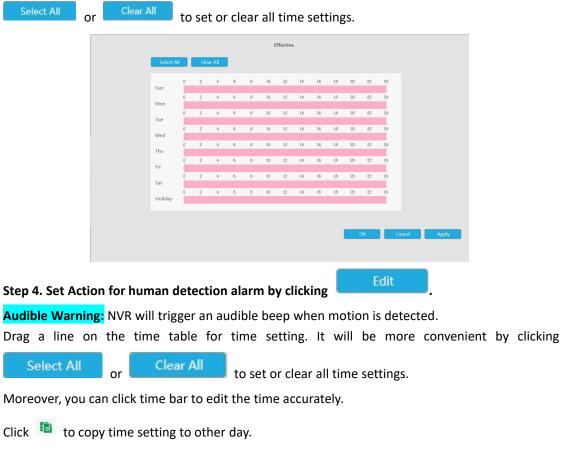
Human Detection

(PUB)

~

# 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



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

Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📕 to copy time setting to other day.

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

**Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

udible Warning					PTZ A	ction		Alarm	Output		Wh	ite LED		Others	
			-9-		1.12.70	cuon	_	7.041111	output			THE LED	_	otiers	
	0	2	4	6	8	10	12	14	16	18	20	22	24		
Sun	0	2	4	6	8	10	12	. 14	16	18	20	22	24		
Mon															
Tue	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		
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		
	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															
Triggered Ir		2	Ds												
Picture Atta	ched	D	isable												

**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line on the time table for time setting. It will be more convenient by clicking

Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

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

Select All

		_		ction		
Audible Warning	Email Link	age	PTZ Action	Alarm Output	White LED	Others
Selec	t All Ch	ear 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	5 6 10	12 14 16 18	20 22 24	
Wed	0 2	4 6		12 14 16 18		
Thu	0 2	4 6		12 14 16 18		
Fri	0 2	4 6		12 14 16 18		
Sat		4 6		12 14 15 18 12 14 16 18		
Holiday						
Triggered	Interval 20	s 🖂				
					ОК С	ancel Ap

And you can add PTZ Action.

Channel Select Channel	Action Typ	e Preset 🗸	No.	
Add De	lete			
Channel	Edit	Delete	Action Type	No.

**Channel:** Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

**Alarm Output:** Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. **Triggered Interval:** The effective interval between two actions when event triggered.

	Ac	tion		
ing Email Linkage	PTZ Action	Alarm Output	White LED	Others
irm Output No. irm Name Add Delet	CH3_2 CH4_1		Edit Delete	•
ggered Interval 20s				
				Cancel Appl
9	gered Interval 20s	gered Interval 20s	gered Interval 20s	

White LED: Trigger White LED flashing when alarm is triggered.

Drag a line on the time table for time setting. It will be more convenient by clicking

Select All or C

Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

									Action				25.5		-		
Audible	Warning	Email Linkage					PTZ A	tion		Alarm Output			White LED			Others	
	Select A		Cl	ear 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		
	Triggered In	terval	20	is													
														ок		Cancel	Арр

And you can add White LED.

White LED: Channel Select Channel	Flash Mode	Twinkle	Flash Time	- Reset
Add De	lete			
Channel	Edit	Delete	Flash Mode	Flash Time

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.

		μ	letion		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Trigger Ch	annels Record				
I All					
🗹 1 🗆 2	3 4 5 6	5 🗆 7 🗌 8			
	annels Snapshot				
All					
	3 4 5 6				
Note: This	page's configuration will	not be copied into oth	er channels.		
				ОК	Cancel Apply

#### Step 5. Set Minimum Size and Maximum Size.

Minimum Size(1x1~320x240)	3	х	3
O Maximum Size(1x1~320x240)	320	x	240

**Minimum Size:** The Min. Size means that only if the object size is bigger than the frame, the settings for Human Detection will take effect.

**Maximum Size:** The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Human Detection will take effect.

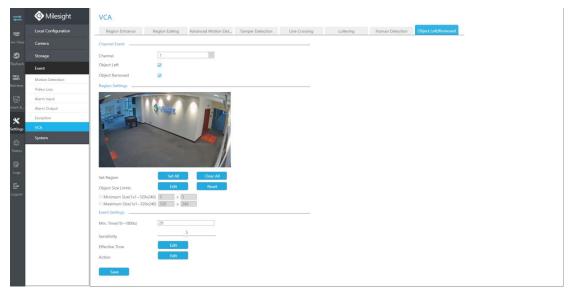


### **Object Left/Removed**

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

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).



### Step 2. Set detection region.

and

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



For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



### 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.

Min. Time(10~1800s)

0.0		
1.20		

### 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 object left/removed by clicking

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

Select All	or 🔜	ear All	to set	or cl	ear			set	tin	gs.				
		Select .	All Cle	ar All		Ef	fective							
		Sun Mon Tue	0 2	4 8 4 6 4 8	8	10 10 10	12 14 12 14 12 14 12 14 12 14	16 16 16 16	18 18 18	20 20 20 20	22 22 22 22 22	24 24 24 24		
		Wed Thu Fri Sat Holiday	0 2	4 8 4 6 4 6	8	10 10 10	12 14 12 14 12 14 12 14 12 14	16 16 16 16	18 18 18 18	20 20 20 20	22 22 22 22 22	24 24 24 24		
		rossy									Эĸ	Cano	2	Apply
Step 6. Set Ac	tion for	object le	ft/ren	noved	l al	arm	ı by	clicl	kin	g		Ec	dit	

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

Select All or Clear All

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 💼 to copy time setting to other day.

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

Select All         Clear All           0         2         4         6         8         10         12         14         16         19         20         22         24	
Sun 0 2 4 6 0 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 5 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 16 18 20 22 24	

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

Select All or

Clear All

. . .

to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📠 to copy time setting to other day.

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

**Picture Attached:** Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

				_											
Sun	0	2		- 1	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	i.,	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	1		6	8	10	12	14	16	18	20	22	24	
Fri	0	2	4	- A	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	
rioliday															



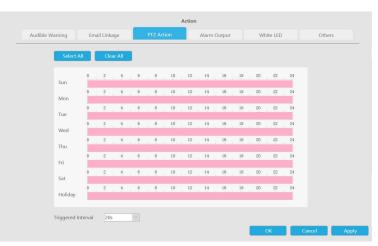
**PTZ Action:** Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line on the time table for time setting. It will be more convenient by clicking

Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📕 to copy time setting to other day.

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



And you can add PTZ Action.

PTZ Action:				
Channel Select Channel	Action Type	e Preset 🗸	No.	
Add Del	ete			
Channel				

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

**No.:** Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number. Triggered Interval: The effective interval between two actions when event triggered.

		A	ction		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Alarm Outy Alarm Nam	e	GH1 1           GH1 2           GH2 1           GH2 2           GH3 1           GH3 2           GH4 1           GH5 2           GH5 1           GH5 2           GH5 1           GH5 2           GH5 1           GH5 2           GH5 3           GH5 4           GH5 4           GH5 7           GH5 8 </td <td></td> <td>Edit Delete</td> <td>•</td>		Edit Delete	•
Triggered I	nterval 20s	$\sim$			
				ОК	Cancel A

White LED: Trigger White LED flashing when alarm is triggered.

Drag a line 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.

Moreover, you can click time bar to edit the time accurately.

Click 💷 to copy time setting to other day.

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

Select .		Cle	ar All											
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24	
Sun	0	2	. 4	6	8	10	12	14	16	18	20	22	24	
Mon	0					10	12	14	16	18	20		24	
Tue		2	4	6	8	10	12	14	10	10	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	
	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			- 1											
Holiday	0	2	4	6	8	10	12	14	16	18	20	22	24	
	_													

And you can add White LED.

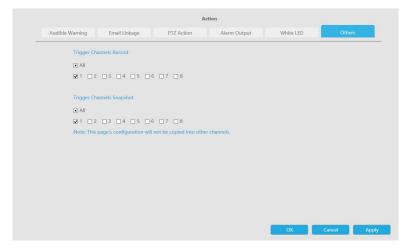
White LED: Channel Select Chan	nel 🗹 Flash Mod	e Twinkle	Flash Time ————————————————————————————————————	- Reset
Add	Delete			
Channel	Edit	Delete	Flash Mode	Flash Time

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

**Flash Time:** Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger selected channels to record and snapshot when alarm is triggered.



Step 7. Set Minimum Size and Maximum Size.



O Minimum Size(1x1~320x240)	3	х	3
O Maximum Size(1x1~320x240)	320	x	240

Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Object Left/Removed will take effect.

**Maximum Size:** The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Object Left/Removed will take effect.

### Settings

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

**Process FPS:** Five different periods are available(5, 10, 15, 20, 25 fps) for process fps.

Camera Installation: Select camera installation view, including Angle View, Horizontal View and Overhead View

**Detection Object Size Settings:** Edit the frame size you draw to trigger events. You can set Min. Size and Max. Size for different events.

**Minimum Size:** The Min. Size means that only if the object size is bigger than the frame, the settings for other VCA functions will take effect.

**Maximum Size:** The Max. Size means the 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.

### Note:

For cameras with the firmware version higher than 4X.7.0.78 and NVRs with the firmware version higher than 7X.9.0.12, Settings tab is no longer displayed separately.

## 4.8.5 System

### 4.8.5.1 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 & Time

It is for setting up the Time parameters of NVR, including Time Zone, Daylight Saving Time, Server Address, NTP Sync, the interval for synchronizing with NTP server, Sync with computer time, etc.



Date & Time	Device
Current System Time	
Date	10/09/2019
Time	01:11:55
Set The System Time	74
Time Zone	(UTC-08:00) United States - Pacific T 🗸
Daylight Saving Time	Auto
NTP Server	
Server Address	pool.ntp.org
NTP Sync	Enable
Interval	1 day
O Manual	
Time	10/09/2019 01:11:52
O Sync with computer	ime
Date	10/09/2019
Time	16:11:55

### Device

It is for setting up the general parameters of NVR, including Device Name, HDMI Audio, HDMI Compatible Mode, etc.

General Setti	ngs
Date & Time	Device
Device Name	NVR
HDMI Audio	Enable
Audio Out	Enable

Device Name	NVR	
HDMI Audio	Enable	$\sim$
Audio Out	Enable	$\sim$
Boot Wizard	Enable	$\sim$
HDMI Compatible Mode	Enable	$\sim$
Stream Information	Disable	$\sim$
HDMI/VGA Resolution	1920 x 1080 / 60Hz	$\sim$

Audio Out: This option will be hidden if NVR does not have Audio Out function.

Boot Wizard: Enable it to pop up boot wizard after rebooting.

**Stream Information:** Enable it to see bit rate, frame rate and frame size in both live view and playback interface.





#### Note:

- 1. For some models, the stream information will reveal synchronously while transcoding is enabled.
- 2. Channels that play H.265 in plugin-free mode will not display the stream information.

### 4.8.5.2 Network

### 4.8.5.2.1 Basic

### Working Mode

It supports three working modes of Multi-address, Load Balance and Net Fault-tolerance.

For Multi-address mode, you can set LAN1 or LAN2 as the default route according to the needs.

### Note:

Only Pro NVR 7000 Series and Pro NVR 8000 Series support this function.

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	Milesight Cloud	PPPoE	SNMP	HTTPS	More
Working Mode	Multi-address	100						
Standard Standard								
Default Route	LAN1	× .						
NIC Settings								
Select NIC	LAN1	🗹 🗹 Enable						
IPv4 DHCP	Disable	$\sim$						
IPv4 Address	192 , 168 , 7	103						
IPv4 Subnet Mask	255 255 240	0						
IPv4 Gateway	192 , 168 , 9	2						
IPv6 Mode	Manual	~						
IPv6 Address								
IPv6 Prefix Length								
IPv6 Gateway								
MAC	1C:C3:16:0A:25:F6							
MTU(Byte)	1500							
DNS Server								
Preferred DNS Server	8 8 8	8						
Alternate DNS Server								

### Note:

- 1. Check the DHCP check-box when there is a DHCP server running in the networks.
- 2. Once DHCP is enabled, DNS will change accordingly.
- 3. The valid range of MTU is 1200~1500.
- 4. Do not input an IP address conflicting with another device.



### 4.8.5.2.2 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 DE	ONS Email	P2P	PPPoE	SNMP	HTTPS	More
Disabl	•						
ing Type Auto	$\sim$						
Port Type	Edit	External Port	Internal Port	Status			
	1		80	Invalid			
	1						

### 4.8.5.2.3 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.

letwork								
Basic	UPnP	DDNS	Email	P2P	PPPoE	SNMP	HTTPS	More
nable DDNS	Disable	$\sim$						
rovider	ddns.milesight.com	×.						
ternal HTTP Port	80							
cternal RTSP Port	554							
DNS URL	http://ddns.milesight.com	n/0A3092						

### 4.8.5.2.4 Email

Email will send receivers a screenshot when the alarm is triggered.

Basic	UPnP	DDNS	P2P	PPPoE	SNMP	HTTPS	More
Email	Enable	$\sim$					
User Name	elena@gmail.com						
Password							
SMTP Server	smtp.gmail.com						
SMTP Port	465						
Encryption	O TLS						
Host Name	http://	Enable					
Sender Email Address	elena@gmail.com						
Receiver Email Address 1	elena@163.com						
Receiver Email Address 2							
Receiver Email Address 3							

Enable Email selection and then begin configuration.

**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.

### 4.8.5.2.5 Milesight Cloud

You can add the devices to M-sight Pro app via Milesight Cloud, which can bind the devices with the cloud accounts. You can log into the cloud account directly on the APP, no need to add devices repeatedly.

Click "Enable" and "Apply" to enable Milesight Cloud.

After enabling, you can add the NVR on the APP M-Sight Pro for live view via scanning the QR code on Milesight Cloud page directly, or inputting the register code manually.

Network								
Basic	UPnP	DDNS	Email	Milesight Cloud	PPPoE	SNMP	HTTPS	More
Milesight Cloud	Enable	×						
Milesight Cloud Status	Online							
Cloud Account	cc							
Unbind Device	Unbind							
Cloud Server Address	m-sight.milesight.com							
Register Code	N80641CC3160A25F6e	ce						
Register QR Code	回於部							
	Sala a							
	<b>H H H H H H H H H H</b>							
	祝田君	34. U						
		85 - C						
Note: Enable Milesight (	Cloud function, the P2P fu	nction will be enabled au	tomatically. Scan the QR	code to bind this device t	o Cloud Account.			
Save								

If you enable Milesight Cloud function, the P2P function will be enabled automatically.

### Note:

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

2. Please make sure your NVR version is V7X.9.0.12 or above, and the APP version is V3.1.0.5 or above.

### 4.8.5.2.6 PPPoE

PPPoE combines PPP protocol with Ethernet, by which Ethernet hosts can connect to a remote access concentrator via a simple bridging device.



Basic	UPnP	DDNS	Email	P2P	PPPoE	SNMP	HTTPS	More
PPPoE	Disable	$\sim$						
Dynamic IP	0.0.0.0							
Jser Name								
Password								
Confirm Password								
Note: If both UPnP and	d PPPoE are enabled, only F	PPoF will take effect.						

#### Note:

If both UPnP and PPPoE are enabled, only PPPoE will take effect.

### 4.8.5.2.7 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	PPPoE	SNMP	HTTPS	More
SNMP V1 / V2c								
SNMP V1	Disable	8						
SNMP V2c	Disable	2						
Read Community	public							
Write Community	private							
SNMP V3								
SNMP V3	Disable	2						
Read Security Name								
evel of Security	no auth,no priv	~						
Write Security Name								
evel of Security	no auth,no priv	$\sim$						
NMP 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) 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) priv)

SNMP Port: The default of the SNMP port is 161

### 4.8.5.2.8 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	PPPoE	SNMP	HTTPS	More
ITTPS	Disable	$\sim$						
stallation Type	Create a Private	e Certificate 🖂						
reate a Private Certificate	Create							
stalled Certificate			Clear					
ttributes								

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.

	Create a Private Certificate	
Country		*
Common Name		*
Period of Validity	(1~999)	days*
Password		
Province		
Region		
Organization		
Company		
Email		
	_	_
	OK	Cancel

### **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	

### **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	$\sim$	
Installation Type	Create a Certific	ate Request 💟	
Create a Certificate Request	Create	Request Conte	ent
Download the Certificate Request	Download	l.	
Delete the Certificate Request	Delete	Ľ	
Installed Certificate	C=CN, H/IP=cn		Clear
Attributes	Awarded to: C=CN, H/IP=ci Issuer: C=CN, H/IP=ci Period of Valid Jun 6 16:21:28 Jan 14 16:21:29	n ity: 2018 ~	

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 <a href="https://ip:port">https://ip:port</a> via the web browser.

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	

### Note:

The default HTTPS port is 443, you can modify it on the "More" interface.

### 4.8.5.2.9 More

Network								
Basic	UPnP	DDNS	Email	P2P	PPPoE	SNMP	HTTPS	More
Channel Access	Enable	$\sim$						
Enable SSH	Enable	$\sim$						
SSH Port	22							
HTTP Port	80							
HTTPS Port	443							
RTSP Port	554							
Push Message	Enable	$\sim$						
Push Stream Type	Auto	$\sim$						
Push Message Settings	Edit							
Save								

### **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:

- 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.
- 3. The RTSP format of Milesight NVR is "rtsp://IP:RTSP port/ch_xxx".
- (1) IP: The IP address of NVR;
- 2 RTSP port: The default RTSP port is 554;

(3) ch_xxx: The first number of xxx represents stream type, 1 for main stream and 4 for sub stream. The last two represents channel number, which start from '00' ('00' means channel 1). Take 'rtsp://192.168.8.179:554/ch_402' as an example:

The IP address of NVR is 192.168.8.179.

The RTSP port is 554.

The stream type is sub stream and the channel number is 3.

### 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 Event Type

Click Edit to select which alarm type will be pushed to APP M-sight Pro. There are

different Push Event Types for every channel to choose, which means every camera added in this NVR can choose what Event Type it wants to push, like Motion Detection, Video Loss, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering



### and Human Detection.

### Push Message Settings

### ① Camera Event

Camera Event	NVR Event		
Channel	1	V	
Push Event Type	IIA 🗹		
	☑ Motion Detection	🗹 Video Loss	☑ Region Entranc
	☑ Region Exiting	Advanced Motion Detection	🗹 Tamper Detecti
	☑ Line Crossing	☑ Loitering	🗹 Human Detectio
	☑ Object Left/Remove	d	
	Alarm Input	ANPR-	
	<b>☑</b> 1 <b>☑</b> 2	🗹 Black List 🛛 🗹 White List	🗹 Visitor List

Select Push Event Type which will be pushed to APP M-sight Pro. There are different Push Event Types for every channel to choose, which means every camera added in this NVR can choose what Event Type it wants to push, like Motion Detection, Video Loss, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering Human Detection, Object Left/Removed, Alarm Input and ANPR(Only for MS-NXXXX-XXT/H).

### 2 NVR Event

		Push Message S	ettings		
Camera Event	NVR Event				
Alarm Input					
All All					
<b>2</b> 1 <b>2</b> 2 <b>3</b> 4	l.				
			ОК	Cancel	Apply
			1		

Select channels which you want to push the Alarm Input Event of NVR.

### Note:

There would not have NVR Event interface if your NVR doesn't have alarm input interface.

## 4.8.5.3 Holiday

📀 Milesight

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

1         Meday         Diala         11         11         /           2         Meday         Diala         11         13         /           3         Meday         Diala         11         11         /         /           4         Meday         Diala         11         11         /         /         /           4         Meday         Diala         11         11         /         /         /           6         Meday         Diala         11         11         /         /         /           6         Meday         Diala         11         11         /         /         /           7         Meday         Diala         11         11         /         /         /           6         Meday         Diala         11         11         /         /           8         Meday         Diala         11         11         /         /           9         Meday         Diala         11         11         /         /           9         Meday         Diala         11         11         /         /           10         Me
3         Maday         Diade         11         1-1         2           4         Maday         Diade         14         14         2           5         Maday         Diade         14         14         2           60         Maday         Diade         14         14         2           7         Maday         Diade         14         14         2           8         Maday         Diade         14         14         2           7         Maday         Diade         14         14         2           8         Maday         Diade         14         14         2           9         Maday         Diade         14         14         2           9         Maday         Diade         14         14         2
4         Modey         Diade         11         1-1         /*           5         Molday         Olaska         11         1.1         /*           6         Molday         Olaska         1.1         1.1         /*           7         Molday         Diade         1.1         1.1         /*           9         Molday         Diade         1.1         1.1         /*           9         Molday         Diade         1.1         1.1         /*           9         Molday         Diade         1.1         1.1         /*
5         Molay         Daula         11         11         2           4         Molay         Daula         13         11         2           7         Molay         Daula         13         11         2           8         Molay         Daula         13         11         2           9         Molay         Daula         13         11         2           9         Molay         Daula         13         11         2
φ         6         Miday         Diale         1.1         1.1         /*           7         Hiday         Diale         1.1         5.1         2.*           8         Hiday         Diale         1.1         1.4         2.*           9         Hiday         Diale         1.1         1.4         2.*
7         Holday         Dashe         53         1-1         2'           8         Holday         Dashe         1-1         5-1         2'           9         Holday         Dashe         1-1         5-1         2'
8         Holday         Disable         1-1         1-1         2           9         Holday         Disable         1-1         1-1         2
9 Holday Disable 1-1 1-1 /
10 Holiday Disable 1-1 1-1 af
11 Holday Disable 1-1 1-1
12 Holday Disable 1-1 1-1 2
13 Holday Disable 1-1 1-1 /
14 Holday Disable 1-1 1-1 J*
15 Holday Diable 1-1 1-1
16 Holiday Disable 1-1 1-1

Click v 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.

	Edit Holid	ay		
Holiday Name	Holiday			
Enable Holiday				
Туре	By Month	1		$\sim$
Start Date	Jan	$\sim$	1	$\sim$
End Date	Jan	$\sim$	1	$\sim$
	ОК		Cano	cel

### 4.8.5.4 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 admin password before login.

to enter the user	add interface, input inform	ation for the new u
t user privileges, then	lick OK to save	settings.
	User	
	Admin Password	
	User Level Operator	
	Basic Permission Camera Configuration	
Remote Privilege	Local Privilege	
I All		
Channel Management		214 225 226 227 228
PTZ Control		21 12 12 13 12 14 12 15 12 16
PTZ Settings	17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	2 20 10 21 10 22 10 23 10 24
	<b>⊠</b> 25 <b>⊠</b> 26 <b>⊠</b> 27 i	2 28 29 29 27 30 27 31 27 32
	12 33 12 34 12 35 1	2 36 12 37 12 38 12 39 12 40
		2 44 🗹 45 🗹 46 🗹 47 🗹 48
	Local Playback 🔽 All	
	<b>P</b> 11 <b>P</b> 12 <b>P</b> 13 <b>I</b>	214 1215 1216 1217 1218
		2 12 13 13 14 12 15 12 16
	<b>2</b> 17 <b>2</b> 18 <b>2</b> 19	2 20 12 21 12 22 12 23 12 24
☑ Video Export	25 26 27 1	<b>2</b> 28 🗹 29 🗹 30 🗹 31 🗹 32
Event Settings		2 36 🗹 37 🗹 38 🗹 39 🗹 40
☑ Status & Log		21 44 127 45 127 46 127 47 127 48 21 52 127 53 127 54 127 55 127 56
General Settings		21 60 122 62 52 62 52 62 53 122 64
Network Settings	Remote Privilege	
🗆 Holiday	Remote Live View 🛛 All	
Reboot		<b>2</b> 4 <b>2</b> 5 <b>2</b> 6 <b>2</b> 7 <b>2</b> 8
Remote Record	<b>2</b> 9 <b>2</b> 10 <b>2</b> 11	<b>2</b> 12 <b>2</b> 13 <b>2</b> 14 <b>2</b> 15 <b>2</b> 16
🗹 Remote Snapshot		20 20 21 22 22 23 22 24
Remote Maintenance		28 29 29 20 30 20 31 20 32
C Retrieve		2 36 2 37 2 38 2 39 2 40
Smart Analysis		2 44 12 45 12 46 12 47 12 48 2 52 12 53 12 54 12 55 12 56
Access Filter		2 60 27 61 27 62 27 63 27 64
	t user privileges, then c	t user privileges, then click

### 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

privileges.

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

to edit user

User		User		
Admin Password	]	Admin Password		
Basic Permission Camera Configuration		Basic Permission	Camera Configuration	
Local Privilege	Remote Privilege	Local Privilege		
<ul> <li>All</li> </ul>	<ul> <li>All</li> </ul>	Local Live View	All	-
☑ Channel Management	Channel Management			
PTZ Control	PTZ Control		<b>2</b> 9 <b>2</b> 10 <b>2</b> 11 <b>2</b> 12 <b>2</b> 13 <b>2</b> 14 <b>2</b> 15 <b>2</b> 16	
			☑ 17 ☑ 18 ☑ 19 ☑ 20 ☑ 21 ☑ 22 ☑ 23 ☑ 24	
☑ PTZ Settings	PTZ Settings		፼ 25 ፼ 26 ፼ 27 ፼ 28 ፼ 29 ፼ 30 ፼ 31 ፼ 32	
Audio	🗋 Audio		☑ 33 ☑ 34 ☑ 35 ☑ 36 ☑ 37 ☑ 38 ☑ 39 ☑ 40	
Two-way Audio	🔲 Two-way Audio		Ø 41 Ø 42 Ø 43 Ø 44 Ø 45 Ø 46 Ø 47 Ø 48	
□ Audio Settings	Audio Settings			
☑ Record Settings	□ Record Settings	Local Playback	፼ 57 ፼ 58 ፼ 59 ፼ 60 ፼ 61 ፼ 62 ፼ 63 ፼ 64 ፼ All	-
Snapshot Settings	Snapshot Settings		- 201 202 203 204 205 206 207 208	
Disk Management	Disk Management		⊠ 9 ⊠ 10 ⊠ 11 ⊠ 12 ⊠ 13 ⊠ 14 ⊠ 15 ⊠ 16	
			☑ 17 ☑ 18 ☑ 19 ☑ 20 ☑ 21 ☑ 22 ☑ 23 ☑ 24	
☑ Playback	Playback		☑ 25 ☑ 26 ☑ 27 ☑ 28 ☑ 29 ☑ 30 ☑ 31 ☑ 32	
☑ Video/Picture Export	Video Export		☑ 33 ☑ 34 ☑ 35 ☑ 36 ☑ 37 ☑ 38 ☑ 39 ☑ 40	
Event Settings	Event Settings			
☑ Status & Log	🗹 Status & Log		Ø 49 Ø 50 Ø 51 Ø 52 Ø 53 Ø 54 Ø 55 Ø 56	
General Settings	General Settings	Damata Drivilana	☑ 57 ☑ 58 ☑ 59 ☑ 60 ☑ 61 ☑ 62 ☑ 63 ☑ 64	
Network Settings	Network Settings	Remote Privilege		NC
🗆 Holiday	Holiday	Remote Live View	• All	-
			1 22 23 24 25 26 27 28	
Shutdown/Reboot	🔲 Reboot		Ø 9 Ø 10 Ø 11 Ø 12 Ø 13 Ø 14 Ø 15 Ø 16	
Emergency Record	Remote Record		☑ 17 ☑ 18 ☑ 19 ☑ 20 ☑ 21 ☑ 22 ☑ 23 ☑ 24	
☑ Snapshot	🗹 Remote Snapshot		☑ 25 ☑ 26 ☑ 27 ☑ 28 ☑ 29 ☑ 30 ☑ 31 ☑ 32	
Maintenance	Remote Maintenance			
□ Live View Settings	Retrieve		☑ 41 ☑ 42 ☑ 43 ☑ 44 ☑ 45 ☑ 46 ☑ 47 ☑ 48 ☑ 49 ☑ 50 ☑ 51 ☑ 52 ☑ 53 ☑ 54 ☑ 55 ☑ 56	
			2057 2058 2059 2060 2061 2062 2063 2064	
Retrieve	Smart Analysis	Remote Playback		
Smart Analysis	Access Filter			-
Access Filter			□1 922 923 924 925 926 927 928 929 9210 9211 9212 9213 9214 9215 9216	
OK Back			2017 2018 2019 2020 2021 2022 2023 2024	
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	$\sim$
	User Name	admin	
	New Password		
	Confirm		
	Sync new pass	sword to current connected PoE char	nels
	ОК	Back	
<mark>Delete user</mark>			
Select a user and click	Delete to de	elete a user.	



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

User	Security Question	
Password Authenticati	on	
Admin Password		
Security Question Setti	ng (Questions are already set!)	
Security Question1:	What's your favorite sport?	$\sim$
Security Answer1:		
Security Answer1: Security Question2:	What's your lucky number?	~
	What's your lucky number?	2
Security Question2:	What's your lucky number? What's your favorite food?	>

### 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.

## 4.8.5.5 Access Filter

Enable Access Filter to restrict or open the access to device address added via IP or MAC.

≠	💿 Milesight	Access Filter
-	Local Configuration	Access Fiter Enable
Live View	Camera	Fiber Type Allow
9	Storage	Add Coles
Playback	Event	Address Edit Delete
IR Retrieve	System	□ 182188722
	General Settings	Save
Seruer An	Network	
	Holiday	
X Settings	User	
	Access Filter	
Status Loga Logaut	Mäntennie	

Step 1. Enable Access Filter.

S	-11.	Enable	
Access	Filter	chable	



### Step 2. Select Filter Type.

There are two options: Deny and Allow. Deny: Only restrict the access to the added device address. Allow: Only open the access to the added device address.

Filter	Туре
--------	------

Allow	
Denv	

### Step 3. Add Address.

Click to add device address. You can add the address via IP or MAC.

**Method 1:** Add the address via IP. You can choose the IP address rule according to your needs. There are two rules: Single and Range.

Address Type	IP Address	$\sim$
IP Address Rule	Single	V
IP Address		
	ок	Cancel
	Add Address	
	IP Address	
ddress Type	IP Address	
P Address Rule	Range	2
P Address	· · · · ·	a a

Method 2: Add the address via MAC.

Address Type	MAC A	ddre	55			~
MAC Address	:	;		:	;	

Step 4. Then click **Save** to make Access Filter effective.

You can click 🧹 in the Access Filter interface to edit the corresponding address again.

Address Type	IP Address
P Address Rule	Single
P Address	192.168.7.22
11001000	

### Note:

1 If Access Filter is enabled and Filter type is Allow, but no address is added to the table, then no address is allowed to Access the NVR.

(2) If Access Filter is enabled and Filter type is Deny, but no address is added to the table, then all addresses are allowed to Access the NVR.



## 4.8.5.6 Maintenance

Milesight	Maintenance Local Upgrids Online Upgrade Import/Export Config Reboot Reset Diagnosis Information
Live View Camera	Firmuare
Storage Playback Event	Reset settings to factory default (except IP Address and User Information) Upstank
Retrieve System	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.
Sevent An.	
Settings Access Filter	
Status	
III Loga	
G•	
Logout	
Local Upgra	de
Step1. Click	Browse to coloct the firmware file, and you can check to recet
Step1. Click	to coloct the tirmware tile, and you can check to recet
otop 1 onon	Browse to select the firmware file, and you can check Let to reset
	n to factory defaults;
	n to factory defaults;
configuratio Step2. Click	n to factory defaults; Upgrade to confirm the upgrade.
configuratio	n to factory defaults;
configuratio Step2. Click	n to factory defaults; Upgrade to confirm the upgrade.
configuratio	n to factory defaults; Upgrade to confirm the upgrade.
configuratio	n to factory defaults; Upgrade to confirm the upgrade. Maintenance Weine Upgrade reset Upgrade re
configuratio	n to factory defaults; Upgrade to confirm the upgrade. Maintenance Weine Upgrade meant/typert Config. Reteret Diagonals Information Fermane Rest utilings to factory, default (serget # Address and User Information)
configuratio	n to factory defaults; Upgrade to confirm the upgrade. Maintenance Weine Upgrade meant/typert Config. Reteret Diagonals Information Fermane Rest utilings to factory, default (serget # Address and User Information)
configuratio	n to factory defaults; Upgrade to confirm the upgrade. Maintenance Weine Upgrade meant/typert Config. Reteret Diagonals Information Fermane Rest utilings to factory, default (serget # Address and User Information)
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configuratio	n to factory defaults; Upgrade to confirm the upgrade. Maintenance Weine Upgrade meant/typert Config. Reteret Diagonals Information Fermane Rest utilings to factory, default (serget # Address and User Information)
configuratio	n to factory defaults; Upgrade to confirm the upgrade. Maintenance Weine Upgrade meant/typert Config. Reteret Diagonals Information Fermane Rest utilings to factory, default (serget # Address and User Information)
configuratio	n to factory defaults; Upgrade to confirm the upgrade. Maintenance Weine Upgrade meant/typert Config. Reteret Diagonals Information Fermane Rest utilings to factory, default (serget # Address and User Information)
configuratio	n to factory defaults; Upgrade to confirm the upgrade. Maintenance Weine Upgrade meant/typert Config. Reteret Diagonals Information Fermane Rest utilings to factory, default (serget # Address and User Information)

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.

**Online Upgrade** 

**Step1.** Click Check to confirm whether there is a new version;

If there is a new version, the Latest Version column will display corresponding information.

Upgrade

Constraint

</t

to confirm the upgrade.

#### Note:

Step2. Click

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.

Import/Export Configuration

Import Config	guration File: Click	Browse	to select one file and click	Upload	to
import the NV	'R configuration.				
ᡓ 💿 Milesight	Maintenance				

Load Configuration     Now     Concret     Strang   Concret     Strang   Concret     Strang   Concret     Strang   Concret     Strang   Concret     Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Concret   Strang   Strang   Concret   Strang   Strang <td< th=""></td<>
Strate Strate   System Configuration File   Contrait Strings System   Contrait Strings Retrock   Retrock System
Automa     Control
Event         Event           System         Export Configuration File           Cancel distrigs:         Backage           Accord distrigs:         Backage           Accord distrigs:         Backage           Backage         Backage
Spatian     Concord Strings       Second Strings     Backage       Notes     Backage       Notes     Across String       Notes     Across String
Image: Second Control of Second
Automation and Automation Automation and Automation
Uper       Access Filter       Access Filter       Materianare
Access film
in a second
oh.

Export Configuration File: Click

ick Backu

to backup current NVR settings.

	Milesight	Maintenance					
-	Local Configuration	Local Upgrade	Online Upgrade	Import/Export Config	Reboot	Reset	Diagnosis Information
Live Vew		Import Configuration File	2				
9		Configuration File			Browse		
Playback		Upload					
IIR Retrieve	System	Export Configuration File					
1.7	General Settings	Backup					
Semant An	Network Holiday						
*	Holiday						
Settings	Access Filter						
** Status	Maintenance						
100							
G•							
Logout							

### Reboot

	Milesight	Maintenance	
	Local Configuration	Local Upgrade Online Upgrade Import/Export Config Reboot Reset	Diagnosis Information
		Reboot	
	Storage	Rebot	
		Auto Reboot	
	System	Auto Reboot Disable	
	General Settings	Day Everyday	
	Network	Time 00 : 00 : 00	
	Holiday	Save	
	Access Filter		
	Maintenance		
L			

### Reboot

Click Reboot to reboot the NVR.

### 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**: Adjustable range from 00:00:00 to 23:59:59.

### Note:

- 1. Some models support this function.
- 2. Auto Reboot can be enabled in User -> Edit Limit -> Remote Privilege.
- 3. The record will display in the log when Auto Reboot takes effect.
- 4. If a user without Auto Reboot permission logs in, the function will be hidden.

### Reset

Click

to reset the NVR to factory defaults.



₽	\land Milesight	Maintenance
	Local Configuration	Local Upgrade Online Upgrade Import/Export Config Reboot Relat Diagnosis Informati
		Keep the IP Configuration
		Keep the User Information
		Reset
IR Retrieve	System	
	General Settings	
Senant An	Network	
*	Holiday User	
Settings	Access Filter	
*	Maintenance	
Status		
12		
Logs		
E*		

Keeping the IP parameters and Keeping the User information are available.

### **Diagnosis Information**

Clic	k Backup	and s	elect 1	the path t	o save t	he dia	gnosis file	e to export	the diagn	osis file.	
the Verse Products Products Const An. Statisge Statisge Statisge Laget	Milesight Local Configuration Camera Storage Storage System Contral Softings Research Holdary User Locas Riter Mainteence	And S	Coline Upgrade	Ine path t	Release		Pagnula lafumatan	e to export	the diagn	osis file.	
Logent			Do you want to op	en or save NVR-MS-N5008-UPC-	20210222142438.8xt from	192.168.7.957	Qeen	Son - Source X			

## 4.9 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 interfaces accordingly.

## **4.9.1 Device Information**

Milesight

## **4.9.1.1 Device Information**

Device information includes Model, MAC Address, Hardware Version, Software Version and Uptime.

Device Informa	ation	
Device Information	n About	
Model	MS-N5008-UPT	
MAC Address	1C:C3:16:0A:43:03	
Hardware Version	V1.0	
Software Version	72.9.0.9-a4-unit4	
Uptime	16:11:04 up 7 days, 1:13	

## 4.9.1.2 About

		Device Information	tion		
		Device Information	Abou	ıt	
		Open Source Software Lic	enses		
Click	View Licer	View Licenses	aat chows the C	Doop Source Softw	
CIICK			Tat shows the C	open source sortw	are Licenses.
		1.All sofreare listed herein is provided withour any liability or warranty from their copyright holders.			Î
		2.All software listed herein is oppyright by the respective sublor. Flease see the source code for detailed inf 5.All information here in applies to NETWORK VIEGO PECONCER.	onnation.		1
		4.This product catalias actrumes ("Open Source Software") that is provided to you under open source licenses. S OFTER DO SUPERTIE SOURCE CONT This product catalias actrumes ("ODE-licensed Software") that is provided to you under the SOU General Public 1 Fread Software shortsetEleventil.com			z
		Passa binisti its sould mass who the sparsity press version names. He sure to presse a section solution. Children's livered mass who the sparsity press version names. He sure to press the section solution of lines that an exception binary sparsity is included in this predet. Elsew chick Appendix 01 lines tends. Using tends.	is I below for the detail terms of this license. Specifi	cally, the following enforce included in this product is subject to	•
		Garra - Anala 899 Package 2.4.5 Dyraposolo-1 Dyraposol-1 Libetwieja Libetwieja			
		110mmp-2.3 4.80ftware lineased ander the 689 General Public Linease (695), Version 3 is included in this product. Please o	heik Appendix 2 below for the detail terms of this licen	se. Specifically, the following software included in this product is	
		libiconv-1-14			
		7.Software licensed under the GBU Lesser General Public License (LGGE), Version 2.1 is included in this product libering lineary			r
		0.5oftware licensed under a modified 850 license is included in this product. Flease check Appendix 4 below for Crypto38 3.1.2	the detail terms under which this software is distribut	ed.	
		CTUPELOS MARIS MORTE ULLO			
		libupsp-1.6.19 9.80ftware libeased ander the MIT libease is included in this product. Flease oners Appendix 5 below for the de	tall terms of this license. Specifically, the following	eofinate included in this product is subject to the HTT lienses	1
		Separation 1.1.1. Separation 1.1. Separation 1.1. Separation 1.1. Separation 1.1. Separation 1.1. Separation 1.1. Separation 1.1.			
		provide the product of the freeType Fre	terms under which this software is distributed.		
		11.6oftware coggright by The OpenISE Project is included in this product. Please thesh Appendix 5 below for the OpenISE 1.0.26	detail terms of this license under which this software	ie dietzibuted.	

## 4.9.2 Network Status

• Milesight

Network Status includes three main parts: Receive Bandwidth, LAN.

### **Network Status**

Receive Bandwid	lth		
Free	145Mbps	Used	15Mbps
LAN			
Connection	Link is up - 100Mbps Dup	lex	
IPv4 DHCP	Disable	IPv6 Mode	Manual
IPv4 Address	192.168.7.111	IPv6 Address	
IPv4 Netmask	255.255.240.0	IPv6 Prefix Length	
IPv4 Gateway	192.168.7.1	IPv6 Gateway	
Preferred DNS Server	8.8.8.8	Alternate DNS Server	
MAC	1C:C3:16:0A:30:92	MTU	1500
Receive Rate	17.45Mbps	Send Rate	429.66Kbps

## 4.9.3 Camera Status

Camera status includes Channel, Name, IPv4 Address, Record, Frame Rate, Bit rate, Resolution and Status.

hannel	Name	IP Address	Record	Frame Rate	Bit Rate	Resolution	Status
1	CAM1	192.168.14.102	Off	Ofps	0Kbps	0x0	A
2	CAM2	192.168.14.103	Off	26fps	4018Kbps	1920x1080	0
3	CAM3	192.168.14.104	Off	20fps	3424Kbps	1920x1080	0
4	CAM4	192.168.14.105	Off	21fps	8419Kbps	2560x2560	0
5	120	i=	-	-	1411	(4)	82
6	-		-	-	-	-	
7	12	а.	0		120	121	12
8	-	-	-	-	-	-	3
9	-	24 24	2	÷	120	20	4
10	-	-	2	-	-	-	
11	1.0	27	1		1778	120	3
12	-	-	Ξ.	-	-	-	-
13	-			100	1.50	101	
14	-	-	-	-	-	-	-
15	100			~	101	185	10
16	-	12	2	-	-	-	2

## 4.9.4 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.



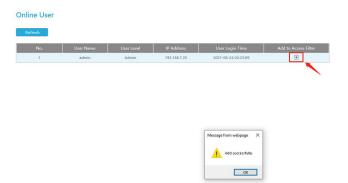
2 V	WDC WD2500BEVT-08A23T1	Normal	232	0	LOCAL	R/W

## 4.9.5 Online Users

Users who are remotely connecting to the NVR in real time can be listed in Online users interface. The list includes User Name, User Level, IP Address and User Login Time.



The IP address can be added to Access Filter interface from Online User interface directly.



## 4.9.6 Event Status

### Camera Event

Camera Event shows camera event, including Video Loss, Motion and I/O. 🚔 turns into

## when alarm is triggered.

Camera Event	Alarm	VCA People Counting		
Channel	Name	IPv4 Address	Video Loss	Motion
1	CAM1	192.168.7.131	<u>n</u>	<u>n</u>
2	CAM2	192.168.14.105	۵	<u>n</u>
3	CAM3	192.168.14.103	<u>n</u>	<u>e</u>
4	CAM4		<u>n</u>	<u>n</u>
5	CAM5	192.168.14.102	<u>n</u>	<u>n</u>
6	CAM6	192.168.7.241	<u>n</u>	<u>n</u>
7	CAM7		<u>A</u>	<u>n</u>
8	CAM8		<u>n</u>	<u>n</u>
9	CAM9		<u>n</u>	<u>n</u>
10	CAM10		<u>n</u>	<u>a</u>

### Alarm

Alarm shows the Alarm Input and Alarm Output status. ^a turns into ^a when alarm is triggered.

Camera Event	Alarm	VCA	People Counting	1	
Input List					
No.	Alarm Na	me	Alarm Type		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>
6			NO		<u>n</u>
7			NO		<u>n</u>
8			NO		<u>n</u>
Output List					
No.	Alarm Name	Alarm	Туре	Dwell Time	Status
1		NO	)	5s	<u>n</u>
2		NC	)	5s	<u>a</u>
		NC		5s	<u>n</u>
3		NO	)	5s	<u>n</u>
3		NC			-
		NC	)	5s	<u>a</u>
4				5s 	
4 CH1_1		NC			

## VCA

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

Event	Status									
Carr	era Event	Alarm	VCA	People C	ounting					
Channel	Name	IPv4 Address	Region Entrance	Region Exiting	Advanced Motion Detection	Tamper Detection	Line Crossing	Loitering	Human Detection	Object Left/Remo
1	CAM1		A.	<u>n</u>	<u>n</u>	۵	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
2	CAM2		0	<u>n</u>	۵	۵	<u>n</u>		<u>n</u>	<u>n</u>
3	CAMS		<u>n</u>	<u>n</u>	<u>n</u>	۵	<u>n</u>	<u>a</u>	<u>n</u>	<u>n</u>
4	CAM4		۵	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
5	CAM5		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
6	CAM6		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>a</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>	8	<u>a</u>	<u>n</u>	<u>n</u>	<u>n</u>
9	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	CAM10		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
11	CAM11		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
12	CAM12		<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>
14	CAM14		<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	CAM15		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>
16	CAM16		<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>	<u>n</u>



### **People Counting**

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

Camera Event	Alarm	VCA People Counting		
Channel	Name	IPv4 Address	In	Out
1	CAM1	-		
2	CAM2			
3	CAM3		144	
4	CAM4			
5	CAM5			
6	CAM6			· · · ·
7	CAM7			
8	CAM8			1
9	CAM9		1.55	1.77
10	CAM10			
11	CAM11		244	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12	CAM12			
13	CAM13			
14	CAM14			

## 4.9.7 Group Status

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

	Group Status			
Status	Sort by Group	Sort by Channel		
Device Information	l			
Network Status	Group	Disk	Channel	
Camera Status	1	177		
Disk Status	2	-	-	
Event Status	3	1771		
	4			
iroup Status	5		-	
acket Capture Tool	6			
	7			
	8	-		
	9	-		
	10	-	-	
	11		-	
	12	-	-	
	13	-	-	
	14	-		
	15		<u></u>	
	16	-		

## 4.9.8 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.

IP	192.168.14.103	
Port	8083	
NIC	eth0	~

## 4.10 Logs

In Log interface, you can check, search and export logs. By selecting the Main Type , Sub Type, Channel, 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.

Anthesiste	No.								
Milesight	1	Event	2021-06-24 02:25:24	Stop Motion Detection	N/A	1	N/A	N/A	包
Log Search	2	Everit	2021-06-24 02:25:14	Start Motion Detection	N/A	1	N/A	N/A	믠
100000		Event	2021-06-24 02:25:00	Stop Motion Detection	N/A	3	N/A	N/A	8
Start Time 2021-06-24 00:00:00	4	Event	2021-06-24 02:24:50	Start Motion Detection	N/A	1	N/A	N/A	Ø
End Time	. 1	Event	2021-06-24 02:24:40	Stop Motion Detection	N/A		N/A	N/A	e
2021-06-24 23:59:59	6	Event	2021-06-24 02:24:30	Start Motion Detection	N/A	1	:N/A	N/A	Ø
Channel	7	Event	2021-06-24 02:24:30	Stop Motion Detection	N/A		N/A	N/A	Ø
👽 CH Name	8.	Event	2021-06-24 02:24:20	Start Motion Detection	N/A	1	N/A	N/A	8
🗭 N/A -	.9	Event .	2021-06-24 02:24:20	Stop Motion Detection	N/A	1	N/A	N/A	8
☑ 1 CAM195\\8	10	Event	2021-06-24 02:24:10	Stop Region Entrance Alarm	N/A	1	N/A	N/A	8
2 CAM2	311	Event	2021-06-24 02:24:10	Start Motion Detection	N/A	1	39/A	N/A	Ø
₽ 3 CAM3	12	Event	2021-06-24 02:24:10	Stop Motion Detection	N/A	1	N/A	N/A	Ø
☑ 4 CAM4	15	Event	2021-06-24 02/24/07	Start Region Entrance Alarm	N/A	- E	N/A	N/A	0
2 3 CAMS	14	Event	2021-06-24 02:24:00	Start Motion Detection	N/A	1	NJA	N/A	Ø
2 6 CAM6	15	information	2021-06-24 02:23:52	Start Record	N/A	5	N/A	N/A	Ø
☑ 7 CAM7	16	Event.	2021-06-24 02:23:41	Stop Motion Detection	N/A	1	11/A	N/A	包
Ø 8 CAMB	17	Event	2021-06-24 02:23:31	Start Motion Detection	N/A	1	N/A	N/A	创
Ø 9 CAM9	18	Event	2021-06-24 02:23:19	Stop Motion Detection	N/A	1	N/A	N/A	8
2 10 CAM10	19	Event	2021-06-24 02:23:09	Start Motion Detection	N/A	1	N/A	N/A	Ø
Main Type	20	Event	2021-06-24 02:22:57	Stop Motion Detection	N/A	1	N/A	N/A	包
Al	21	Event	2021-06-24 02:22:47	Start Motion Detection	N/A	1	N/A	N/A	包
Sob Type All	22	Event	2021-06-24 02:22:59	Stop Motion Detection	N/A	+	N/A	N/A	e
	25	Event	2021-06-24 02:22:29	Start Motion Detection	N/A	1	N/A	N/A	包
	24	Event	2021-06-24 02:22:15	Stop Motion Detection	N/A	3	N/A	N/A	图
	25	Event	2021-06-24 02-22-05	Start Motion Detection	N/A		N/A	N/A	8
	26	Event	2021-06-24 02:22:00	Stop Motion Detection	N/A	1	N/A	N/A	B
	27	Event	2021-06-24 02:21:52	Stop People Counting Alarm	N/A	1	N/A	N/A	Ø
	28	Event	2021-06-24 02:21:50	Start Motion Detection	N/A	1	N/A	N/A	8
Starch	29	Evert	2021-06-24 02:21:50	Stop Motion Detection	N/A	1	n/A	N/A	믠
	30	Event	2021-06-24 02:21:49	Start People Counting Alarm	N/A	1.	N/A	N/A	Ø
biport	21	Event	2021-06-24 02:21:40	Start Motion Detection	N/A	1.	N/A	N/A.	Ø
	13	donal.	1011.05.01.01.01.00	day Midica Delastica	collide.	1335 Item(s)		1/14	61

In particular, for the following types of events, the Information about detection object that triggers the event is displayed in the Log Information.

- ① Region Entrance
- ② Region Exiting
- $\textcircled{3} \quad \text{Advanced Motion Detection}$
- ④ Line Crossing
- ⑤ Loitering

Time	2021-02-22 02:05:45		
Туре	Event - Start Advanced Motion Detection		
Local User	N/A		
Remote Host IP	N/A		
Parameter	N/A		
Channel	4		
Log Information:			
Channel:4 Stream Type: Prin	nary Stream		
Detection Object:	Human		

# 4.11 Logout

Click Logout	to exit the curren	t account.	
	1	bpage X	
		? Log out	1?
		OK	Cancel



# **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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