



Network Video Recorder

User Manual

V6.1



Safety Regulatory

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.

<p>Warnings: Please follow these safeguards to prevent injury or death.</p>	<p>Cautions: Please follow these safeguards to prevent potential injury or material damage.</p>



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

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, Face Detection 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

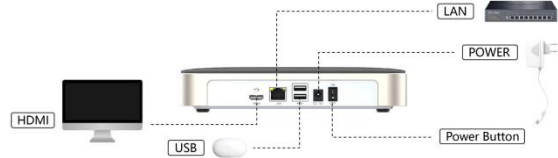
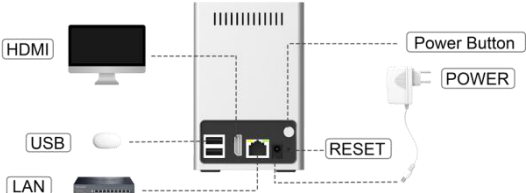
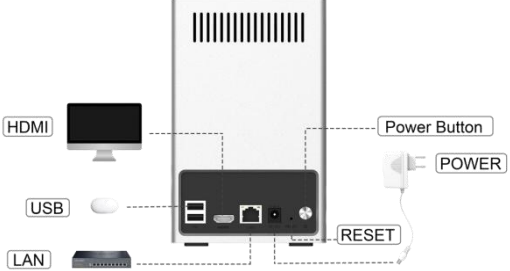

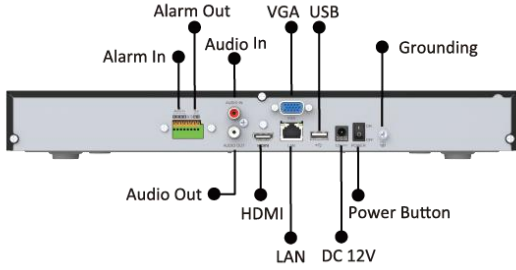
- Equipped with PoE ports for PoE cameras(only available for PoE NVR).
- Support remote search, playback and download of video files.
- Support remote acquiring and configuring of parameters.
- Support remote import and export of device parameters.
- Support Milesight Cloud.
- Support P2P remote access.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


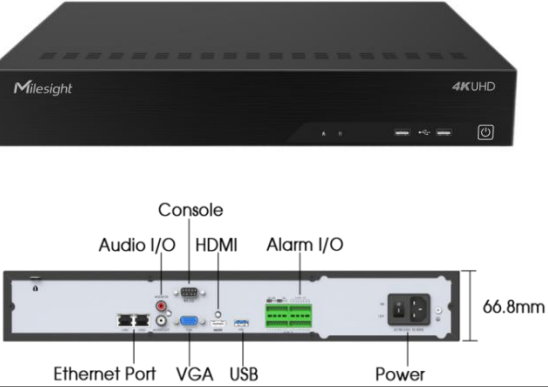
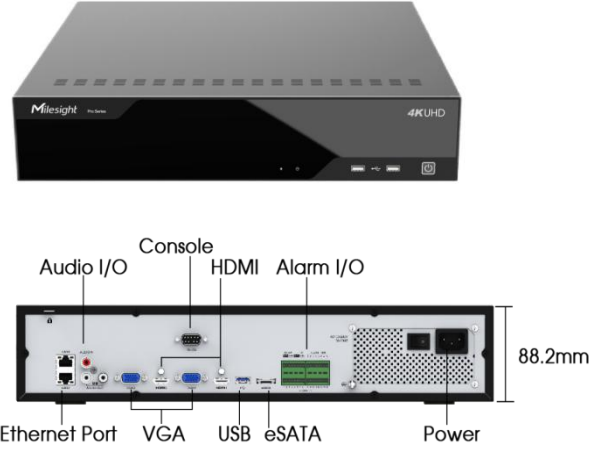
Other Functions

- 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.
- Support Integration with POS solutions.

2. Hardware

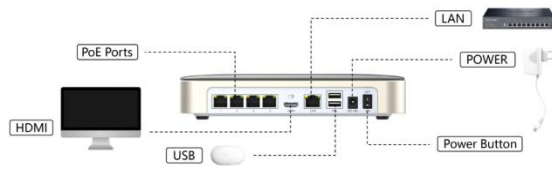
2.1 Panel Buttons

Model	Hardware/Interface
<p>4K H.265 Mini NVR 1000 Series</p>	<p>MS-N1004-UC/MS-N1008-UC:</p> 
	<p>MS-N1009-UT (Firmware version: 71.xx.xx.xx):</p> 
	<p>MS-N1009-UNT:</p> 
<p>4K H.265 Pro NVR 5000 Series</p>	<p>MS-N5008-UC:</p>   <p>MS-N5008-UT/MS-N5016-UT/MS-N5016-E:</p>

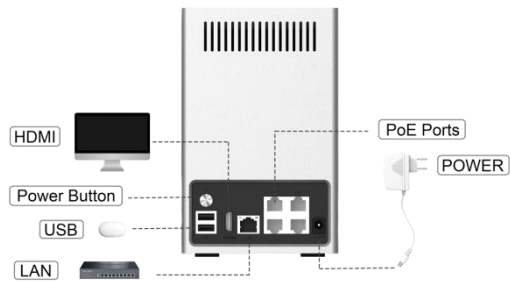
	
<p>4K H.265 Pro NVR 7000 Series</p>	<p>MS-N7016-UH/MS-N7032-UH:</p> 
<p>4K H.265 Pro NVR 8000 Series</p>	<p>MS-N8032-UH/MS-N8064-UH:</p> 

4K H.265 PoE NVR Series

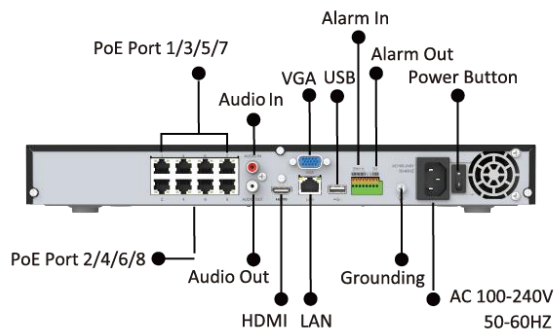
MS-N1004-UPC/MS-N1008-UPC:



MS-N1009-UPT:



MS-N5008-UPC:



MS-N5008-UPT:



MS-N5016-UPT/MS-N5016-PE:



MS-N7016-UPH:



RS-232
PoE Ports Audio I/O HDMI Alarm I/O
Ethernet Port VGA USB Power
66.8mm

MS-N7032-UPH:



RS-232
Alarm Out Alarm In VGA Audio In
RS-485
PoE Port 1/3/5/7/9/11/13/15/17/19/21/23
PoE Port 2/4/6/8/10/12/14/16/18/20/22/24
HDMI Power Button
LAN USB Grounding Audio Out

2.2 Using a USB Mouse

Item	Click	Description
Left Button	Single- click	Live view: select the channel and show the toolbar of live view. Menu: select and confirm.

	Double-click	Switch between single screen to multi-screen when in live view mode and playback mode.
	Click and drag	(1) Control rotation direction in PTZ mode. (2) Set the target area in motion detection, VCA and privacy mask alarm settings. (3) Drag to set the digital zoom area. (4) Drag the channel and the time scroll bar.
Right Button	Single-click	Live view: shows pop-up menu. Menu: exit and go to Live View.
Scroll-wheel	Scroll up	Scroll up the page.
	Scroll down	Scroll down the page.

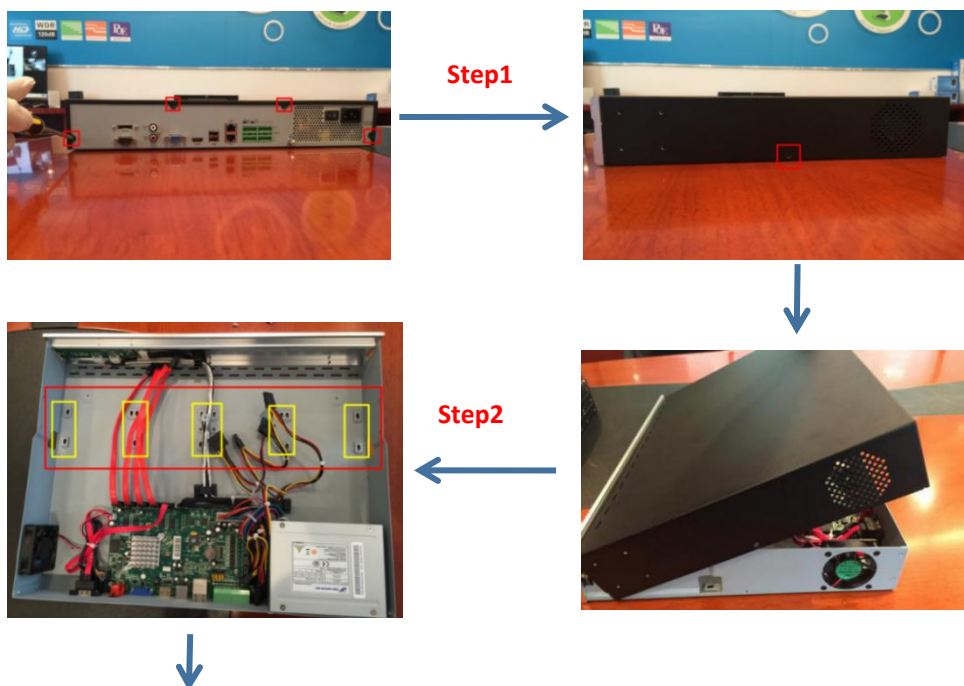
2.3 Hard Disk Installation

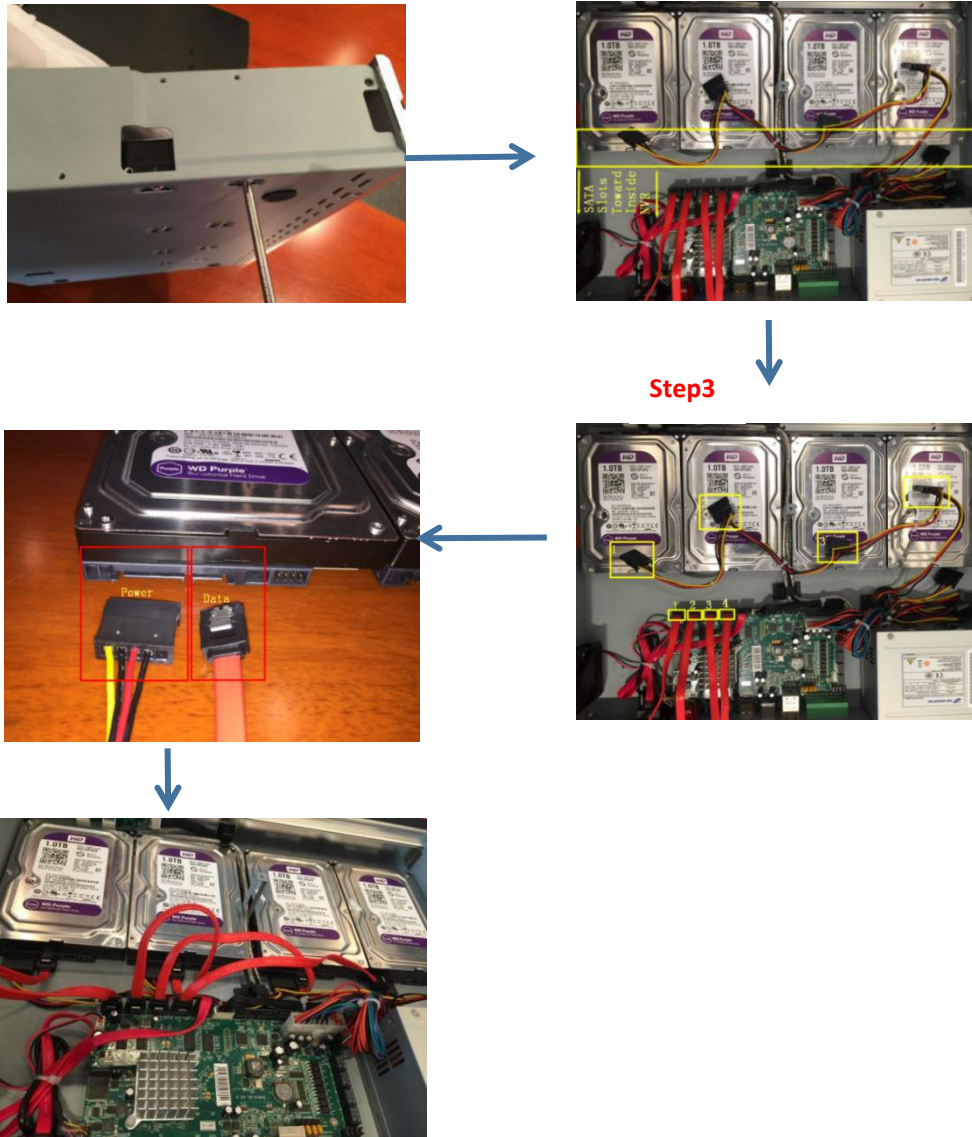
2.3.1 MS-N7000 series Hard Disk Installation

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

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

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





2.3.2 MS-N8000 series Hard Disk Installation

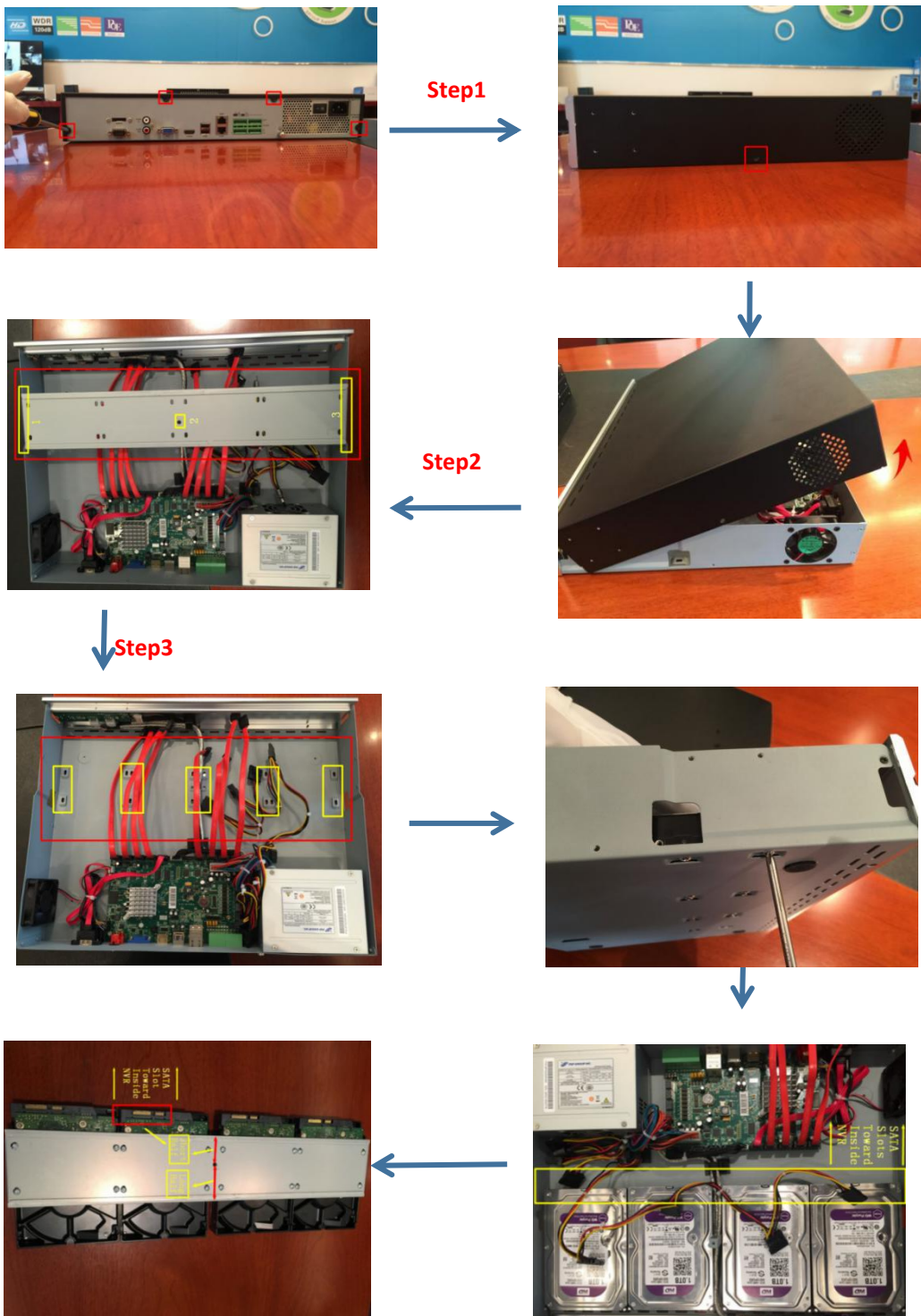
Step1. Unscrew the back and both sides' screws to open the upper lid.

Step2. Uninstall the upper hard disk panel.

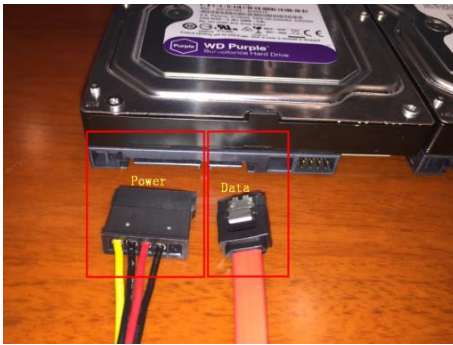
Step3. Install the hard disks into NVR with screws shown in below pictures.(SATA slots of hard disks should be toward inside NVR)

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

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



Step4 ↓



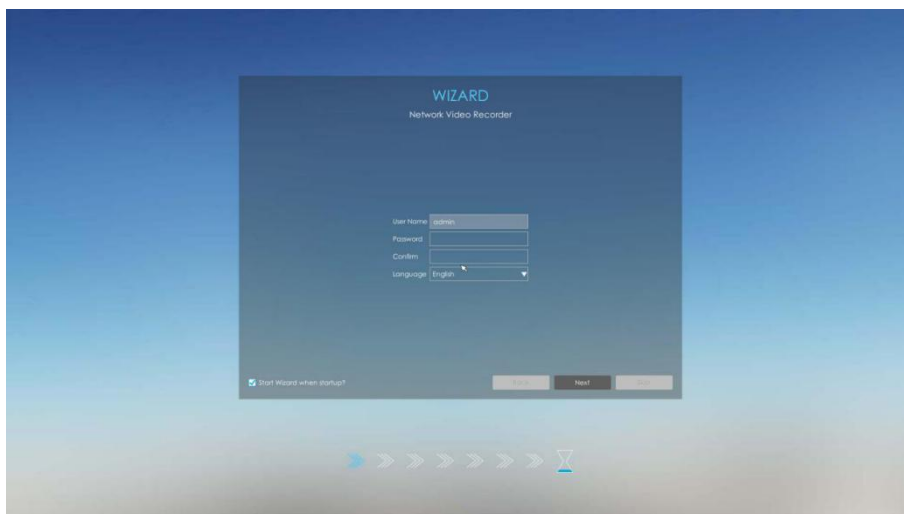
Step5 ↓



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



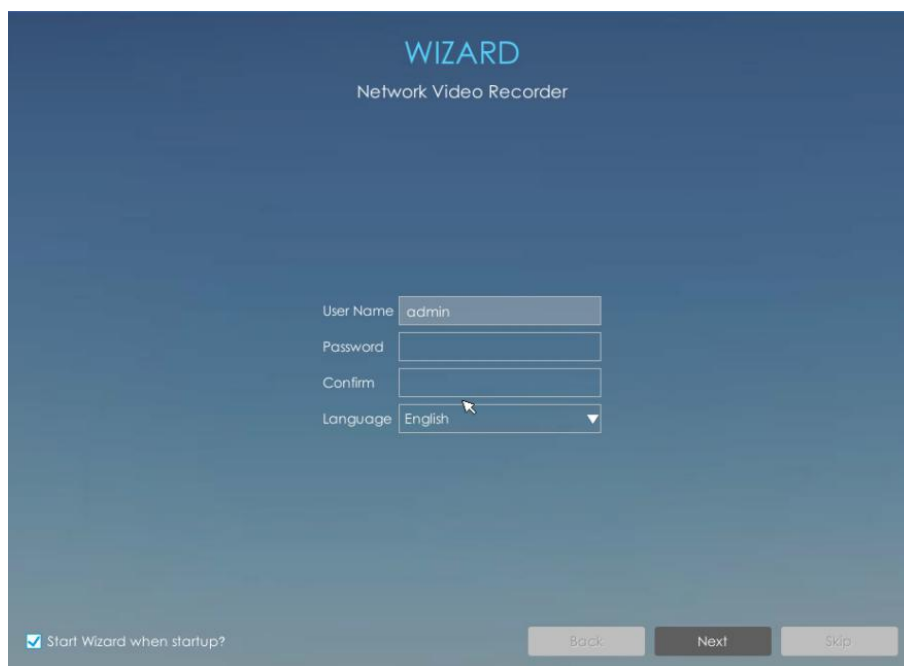
3.1 Wizard Setting

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.

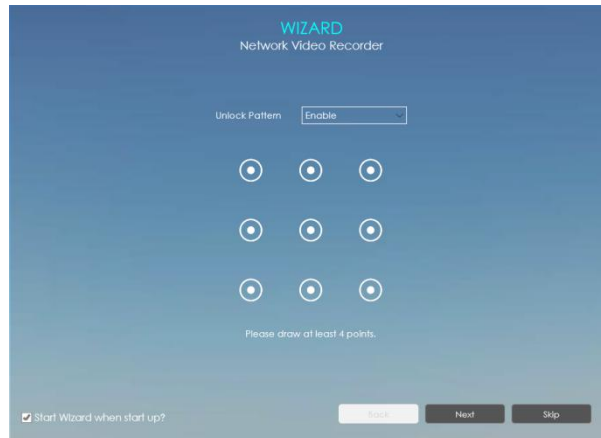


Note:

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.

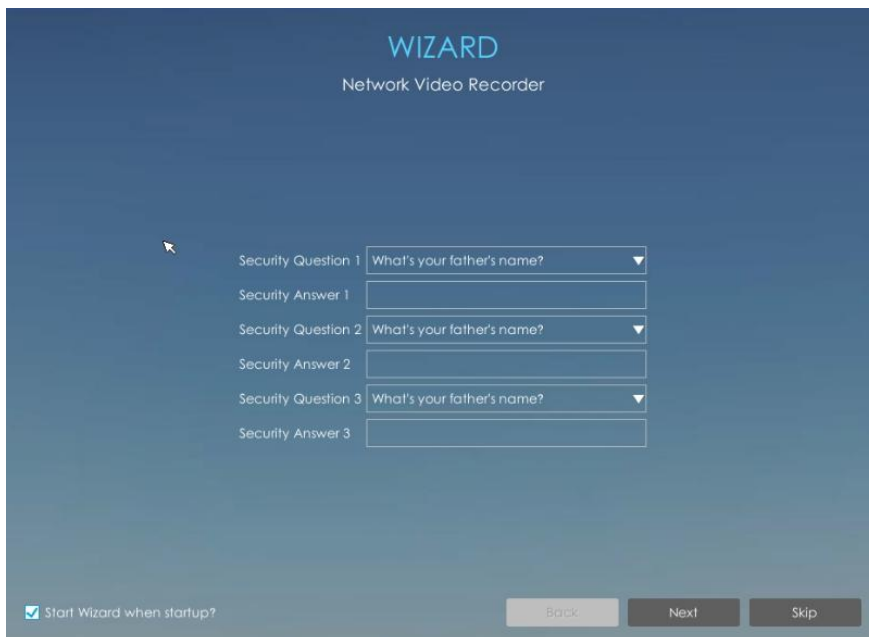
**Note:**

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.

**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.

The screenshot shows the 'WIZARD Network Video Recorder' configuration interface. The 'Time Zone' is set to '(UTC-08:00) United States - Pacific Time' and 'Daylight Saving Time' is set to 'Auto'. The 'Synchronize with NTP server' checkbox is checked, with the 'NTP Server' field containing 'pool.ntp.org'. The 'Set Date and Time Manually' checkbox is unchecked, and the 'Set Date and Time' field shows '2019-09-10 02:52:32'. At the bottom, there is a checkbox for 'Start Wizard when startup?' which is checked, and three buttons: 'Back', 'Next', and 'Skip'.

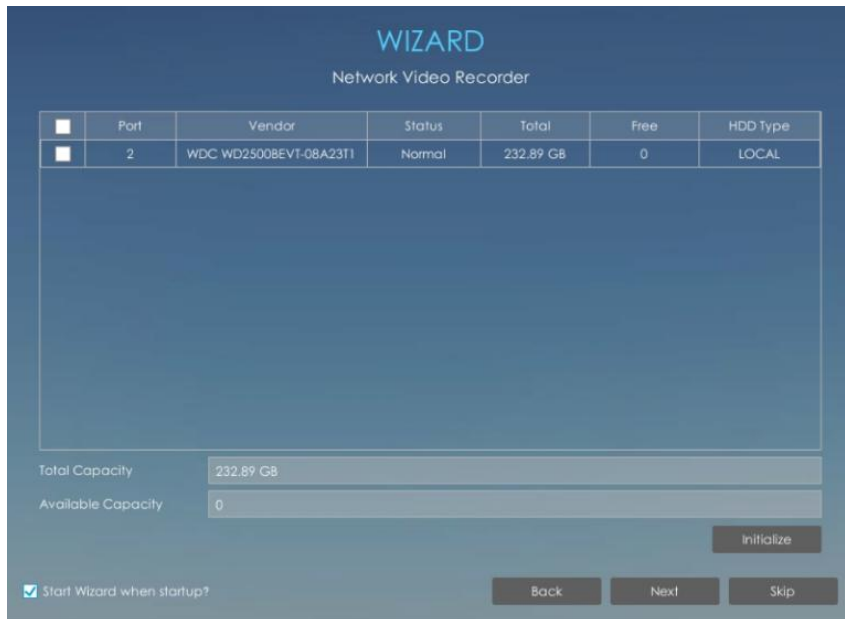
Step 5. Network setting.

Input the IP Address, Subnet Mask, Gateway and Preferred DNS Server.

PoE NIC IPv4 Address option is only for PoE NVR Series.

The screenshot shows the 'WIZARD Network Video Recorder' configuration interface for network settings. The 'NIC' is set to 'LAN'. The 'Enable DHCP' checkbox is unchecked. The 'IP Address' is '192.168.7.111', 'Subnet Mask' is '255.255.240.0', 'Gateway' is '192.168.7.1', 'Preferred DNS Server' is '8.8.8.8', and 'Alternate DNS Server' is empty. The 'PoE NIC IPv4 Address' is '192.168.20.1'. At the bottom, there is a checkbox for 'Start Wizard when startup?' which is checked, and three buttons: 'Back', 'Next', and 'Skip'.

Step 6. Disk Management.

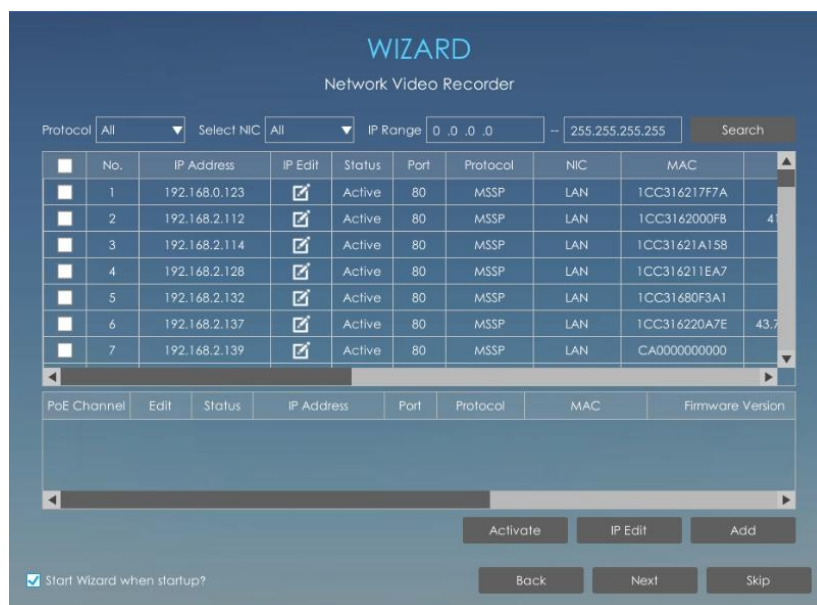


Step 7. Camera Management.

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

Add

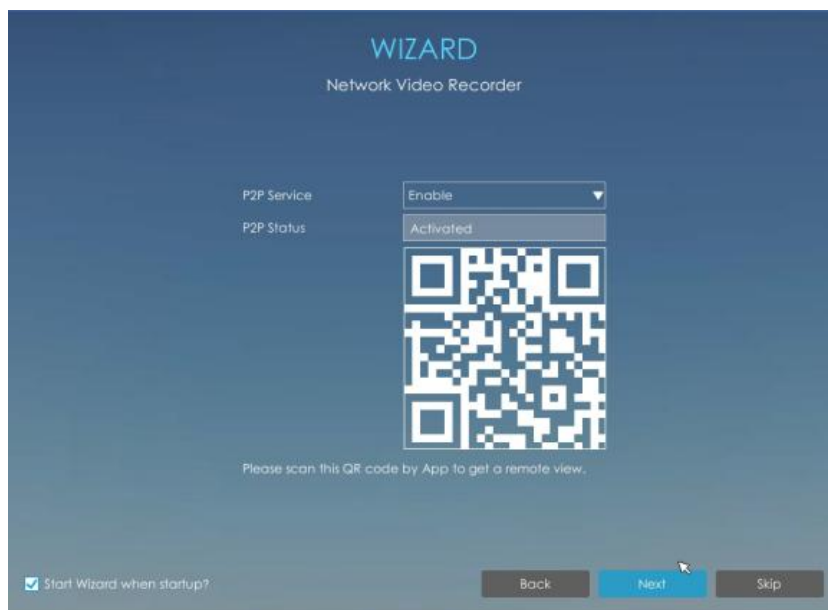
to add them to NVR.



Note:

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

Step 8. P2P



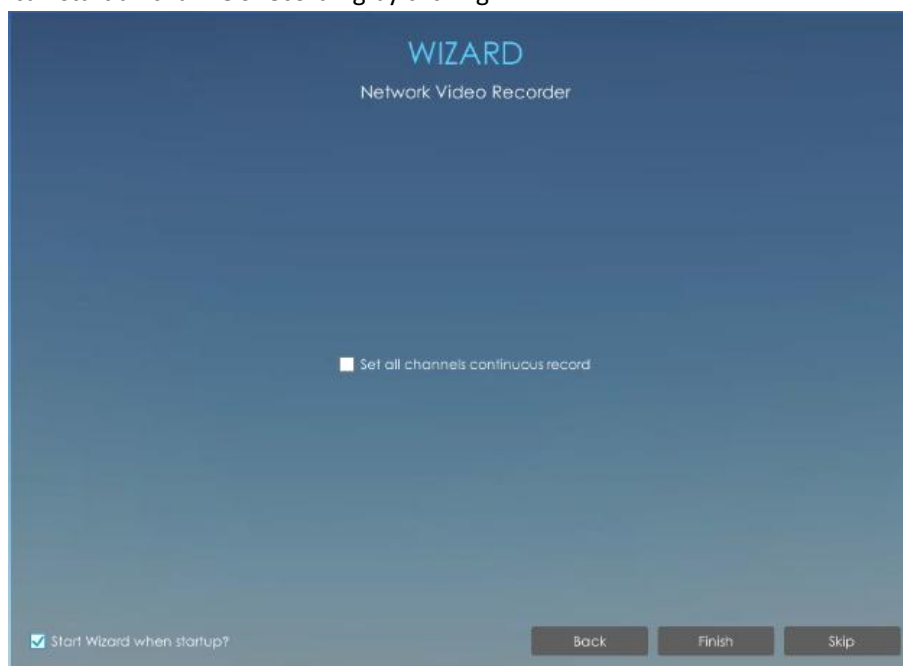
Select Enable to allow P2P Service. Then scan the QR code through M-sight Pro APP to get a remote and real-time view.

Note:

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

Step 9. Record

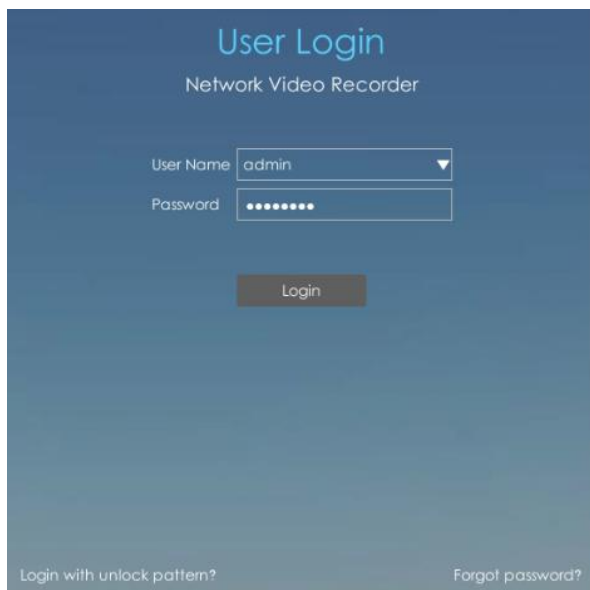
The user can start all channels recording by clicking .



Step 10. Login

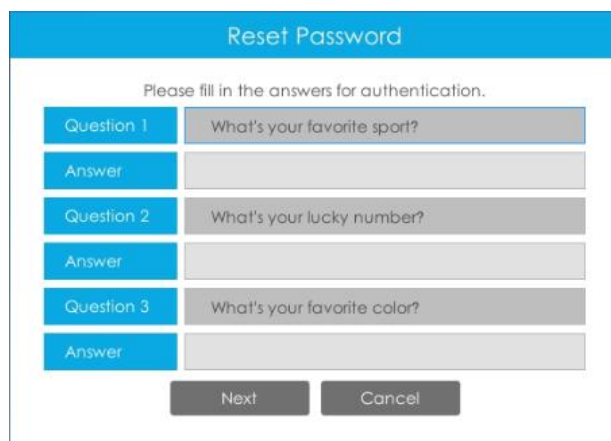
There are two ways to login the system.

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



The image shows the 'User Login' interface for a Network Video Recorder. The title 'User Login' is at the top, followed by 'Network Video Recorder'. Below this, there are two input fields: 'User Name' with a dropdown menu showing 'admin' and 'Password' with a masked field of seven dots. A 'Login' button is centered below the fields. At the bottom, there are two links: 'Login with unlock pattern?' on the left and 'Forgot password?' on the right.

If you forget the password, click [Forgot password?](#) to reset password.

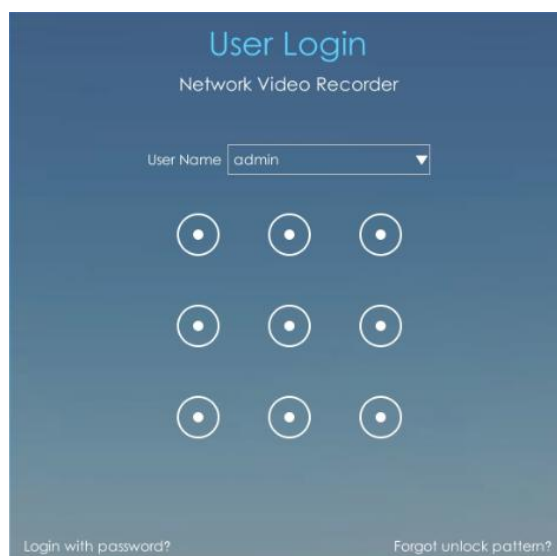


The image shows the 'Reset Password' screen. The title 'Reset Password' is at the top. Below it, the instruction 'Please fill in the answers for authentication.' is displayed. There are three question-answer pairs, each with a question label, a question text, and an answer input field. The questions are: 'What's your favorite sport?', 'What's your lucky number?', and 'What's your favorite color?'. At the bottom, there are two buttons: 'Next' and 'Cancel'.

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.



The image shows the 'User Login' interface for a Network Video Recorder. The title 'User Login' is at the top, followed by 'Network Video Recorder'. Below this, there is a 'User Name' dropdown menu showing 'admin'. Below the dropdown menu is a 3x3 grid of nine circular icons, each containing a small white dot, representing an unlock pattern. At the bottom, there are two links: 'Login with password?' on the left and 'Forgot unlock pattern?' on the right.

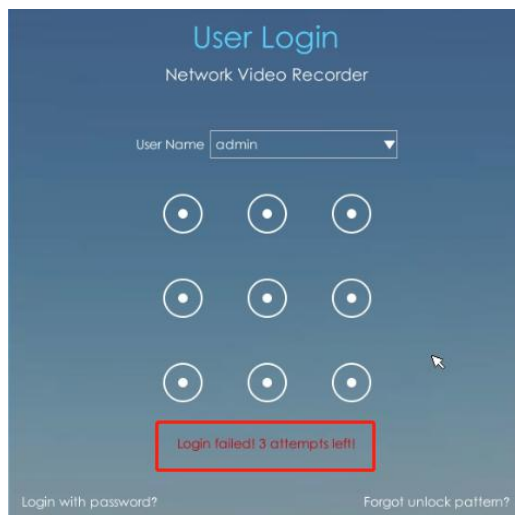
If you forget Unlock Pattern, click [Forgot unlock pattern?](#) to reset Unlock Pattern.



The image shows a 'Reset Unlock Pattern' dialog box. At the top, it says 'Reset Unlock Pattern'. Below that, it asks 'Please fill in the password for authentication.' There are two input fields: 'User Name' with 'admin' entered, and 'Password' which is empty. At the bottom, there are two buttons: 'Next' and 'Cancel'.

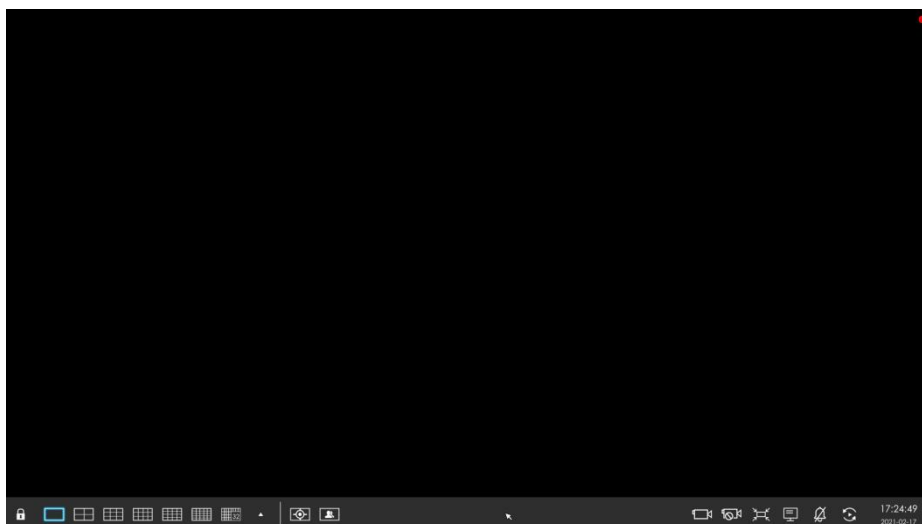
Note:

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.



The image shows the 'User Login' screen for a 'Network Video Recorder'. It has a blue background. At the top, it says 'User Login' and 'Network Video Recorder'. Below that, there is a 'User Name' dropdown menu with 'admin' selected. There is a 3x3 grid of circular icons for a pattern lock. At the bottom, there is a red box with the text 'Login failed! 3 attempts left!'. At the very bottom, there are two links: 'Login with password?' and 'Forgot unlock pattern?'.





















3.2 Live View



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

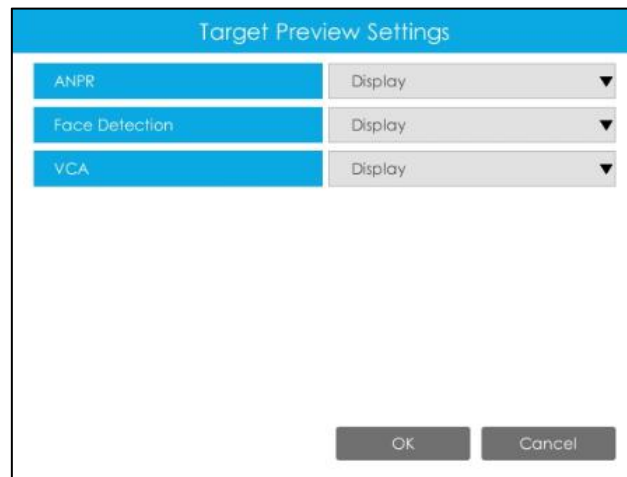
Note:

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

Icons	Descriptions	Icons	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
	Custom layout		Target Mode
	Occupancy Mode		Start all channels recording (for all displaying channels)
	Stop all channels recording (for all displaying channels)		Adjust image in proportion (for all displaying channels)
	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 when the channel is full screen on Live View interface. ② Make sure your camera model is MS-CXXX-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		Time information, which can be set to display consistently or synchronize with the Toolbar in Display Settings.

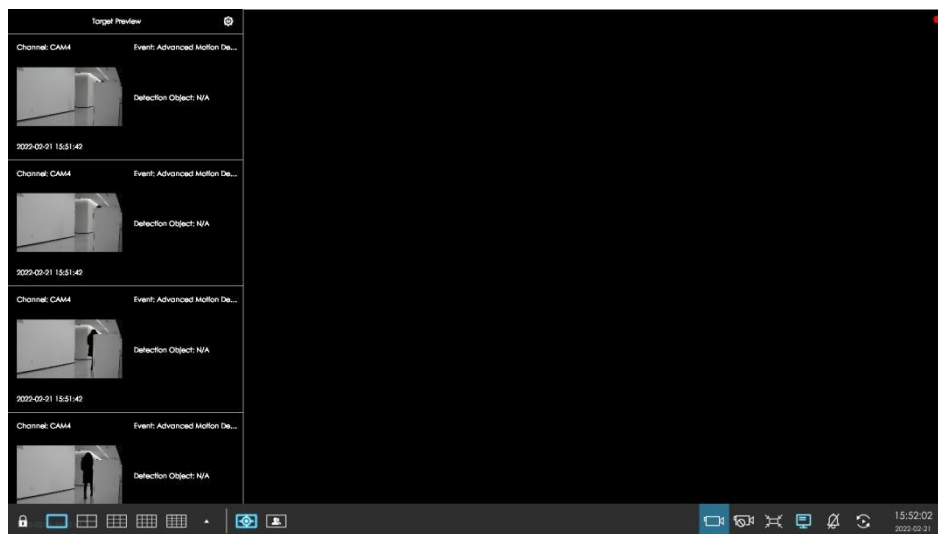
Target Mode:

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

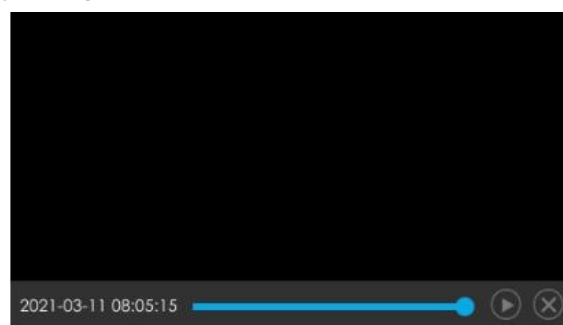
**Note:**

- 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.

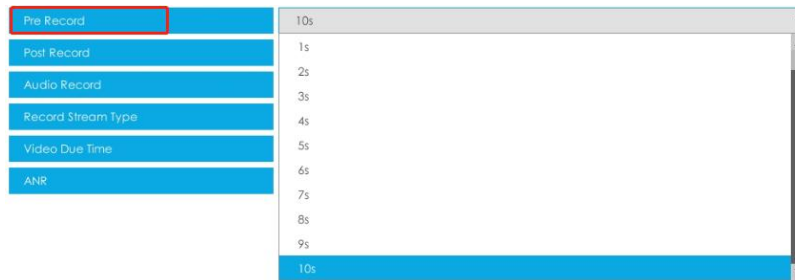


You can click the corresponding record to check the latest X seconds (10s~20s) video.

**Note:**

1.X = 10 + Pre Record Time

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



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.

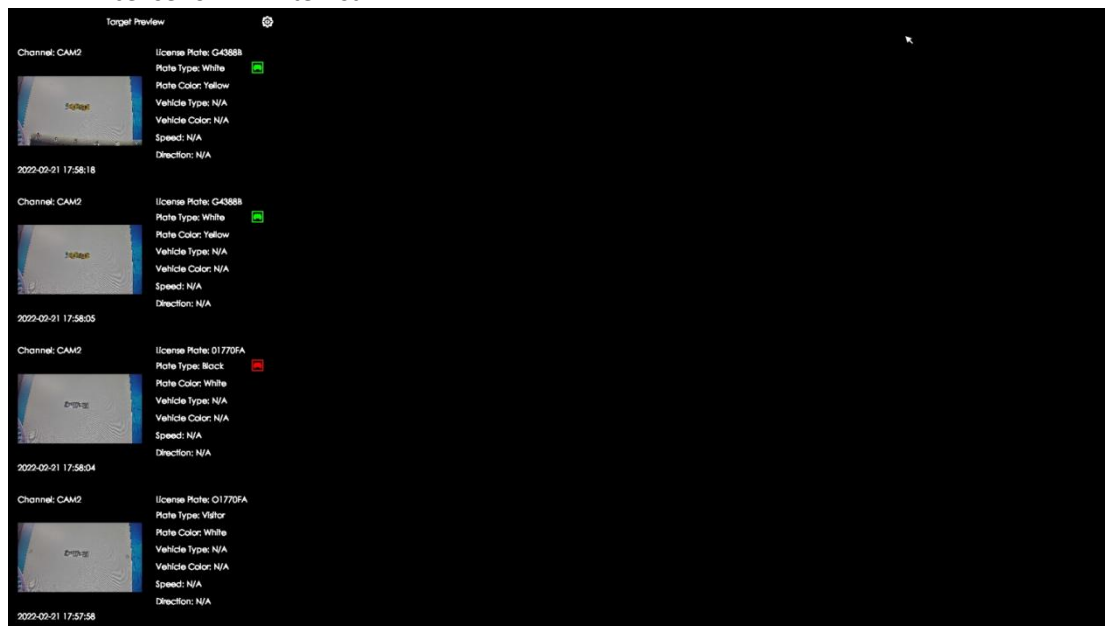
If you choose to display relevant detection results of ANPR, the real-time license plate information including Plate Snapshot, Channel Name, License Plate Number, Detected Time and Plate Type will be shown on the left of the interface once it get detected. There are two license types:



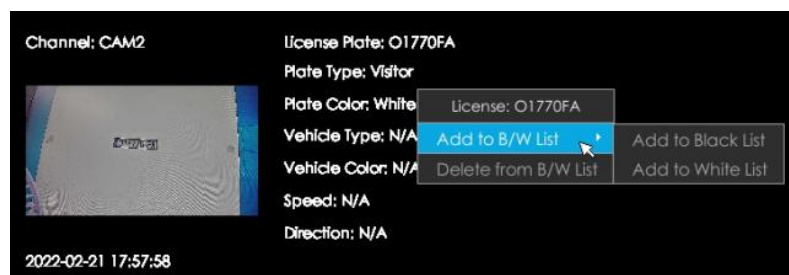
---- License from Black List



---- License form White List



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.

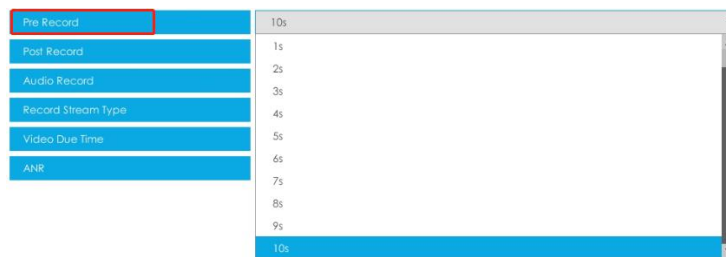


Besides, you can click the license plate information to check the latest X seconds (10s~20s) video.

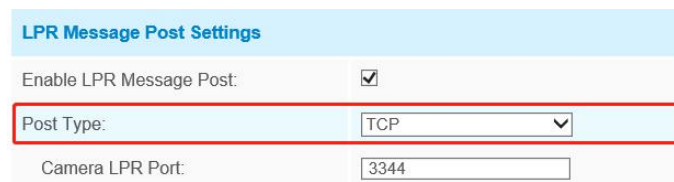
**Note:**

1. $X = 10 + \text{Pre Record Time}$

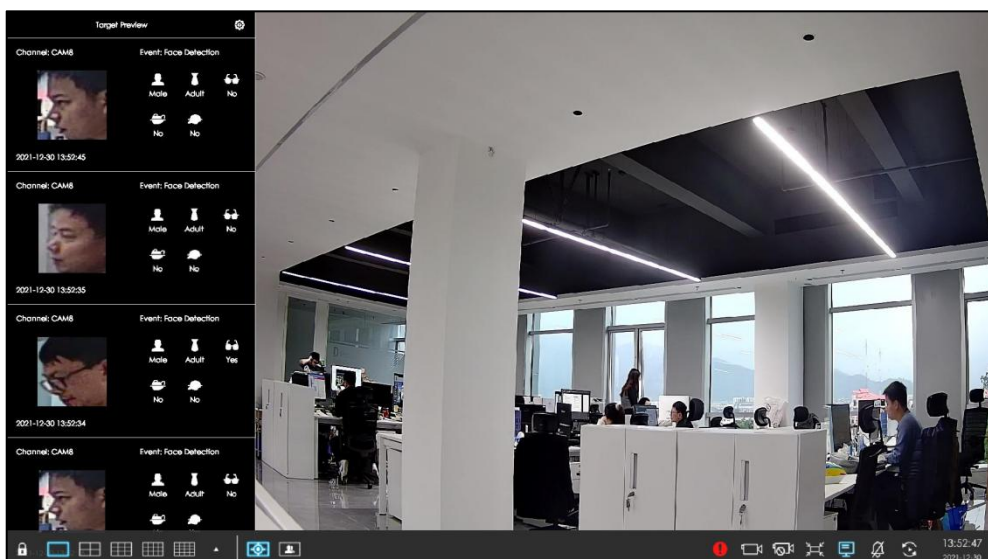
You can set Pre Record Time in Storage -> Video Record -> Record Settings interface.



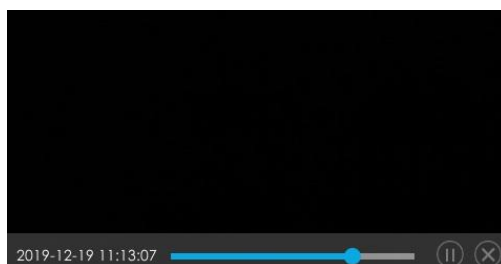
2. Ensure that there is available HDD on NVR and correct record settings is made, so that you can check the record on live view.
3. Ensure that NVR can get the license plate information. Please set TCP which is the default mode as Post Type. It can be set in Camera web page -> Advanced Settings -> ANPR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



If you choose to display relevant detection results of Face Detection, the real-time face information including Face Snapshot, Channel Name, Face Attributes and Detected Time will be shown on the left of the interface once it get detected.



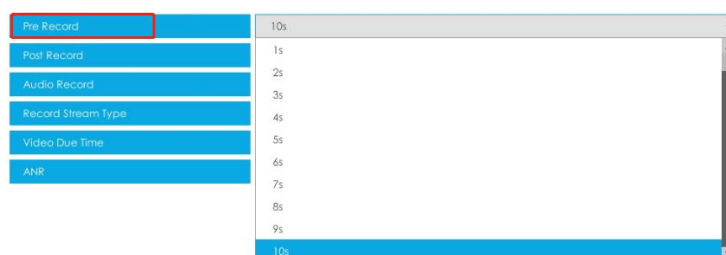
You can also click the face information to check the latest X seconds (10s~20s) video.



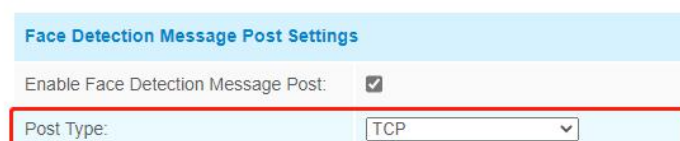
Note:

1. $X = 10 + \text{Pre Record Time}$

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



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.
3. Ensure that NVR can get the face information. Please set TCP which is the default mode as Post Type. It can be set in Camera web page -> Event -> Face Detection -> Face Capture interface.



4. It doesn't support viewing videos when Face Privacy is enabled.


Occupancy Mode:

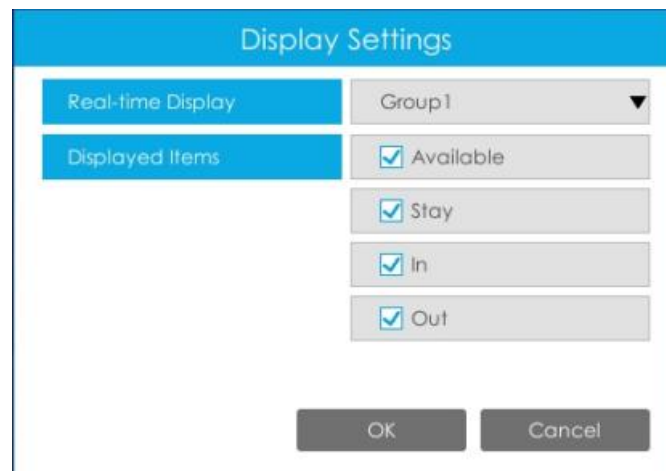
After entering Occupancy Mode, a professional-level Occupancy Live View interface pops up on the screen with full screen coverage. The real-time count results of all cameras within the set group, including the number of people entering, leaving and staying, as well as the traffic light status indicating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




Available: 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 the group and items to be displayed as required in real time.

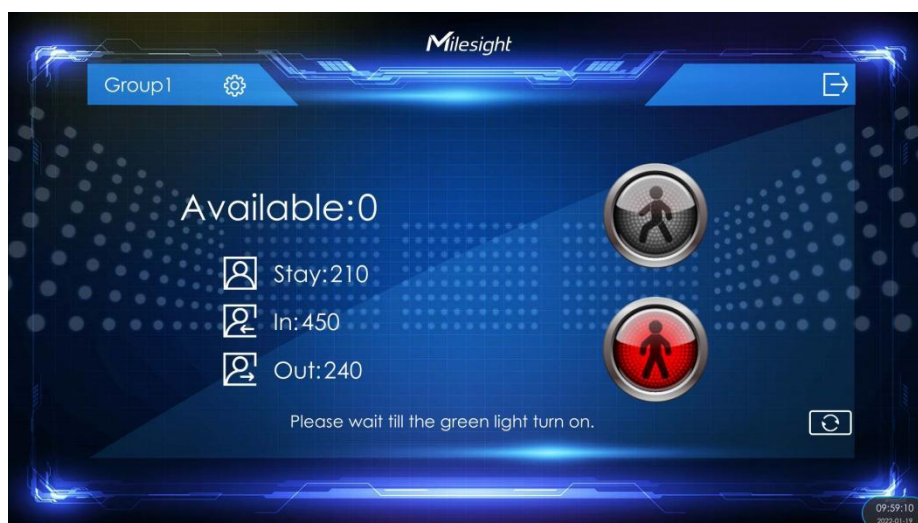


There are two traffic light states:


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.






Red Light  --- 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.

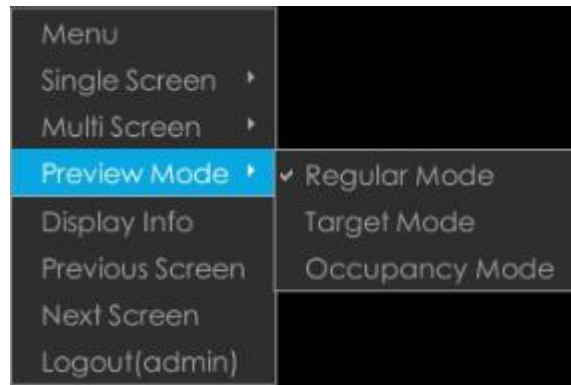
Exit: Click  to exit the Occupancy Live View interface.

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

Icons	Descriptions
	It indicates video loss
	It indicates motion detection alarm
	It indicates that the current channel is recording.

	It indicates exception alarm
	It indicates VCA alarm

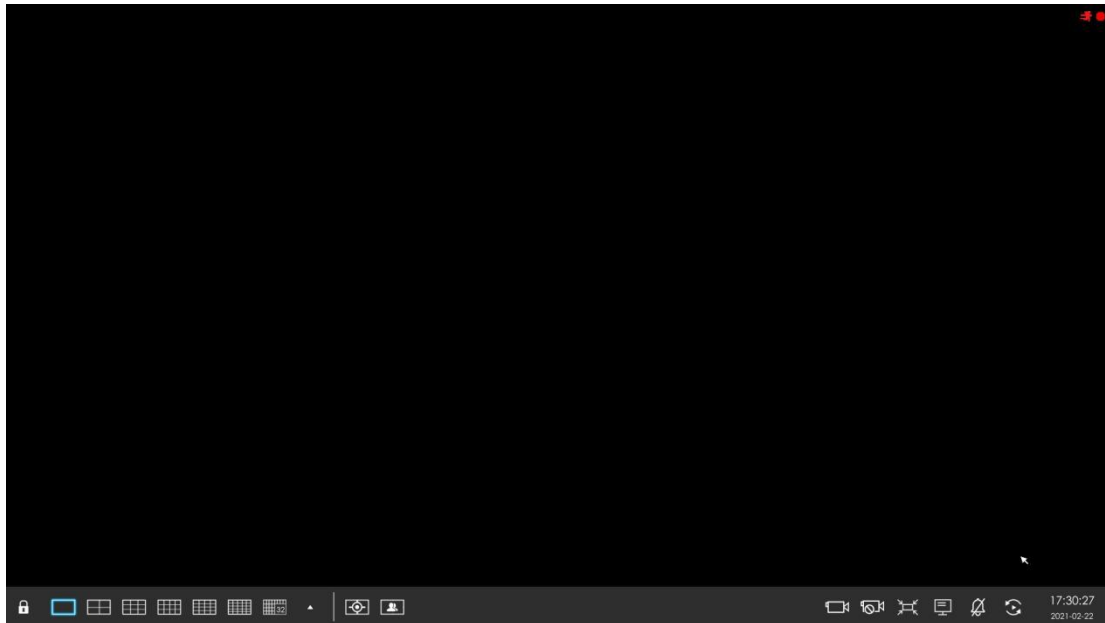
Right click in the Live View and the quick operation menu pops up.



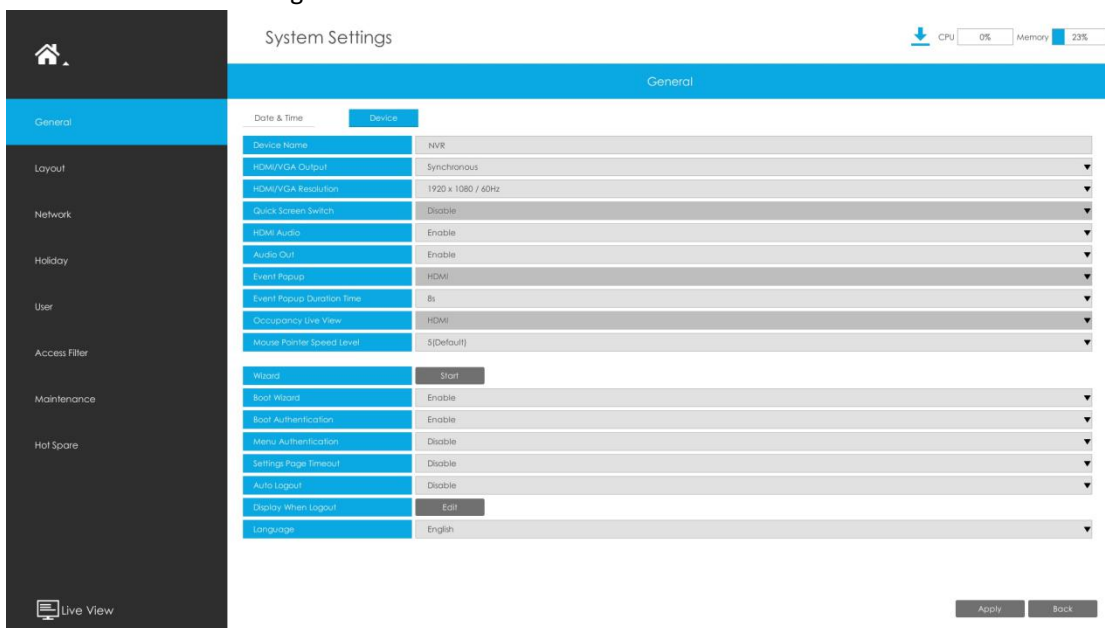
Item	Descriptions
Menu	Display Main Menu
Single Screen	The selected channel will be full screen. You could go back to previous screen layout by double clicking the channel
Sub Screen Ctrl	Switch to sub screen to operate (Only for Pro NVR 7000 Series, PoE NVR 7000 Series and Pro NVR 8000 Series)
Multi 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.












Quick Operation for single channel

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






Icons	Descriptions	Icons	Descriptions
	Manually record		Snapshot manually
	Instant Playback		Manually switch the stream type

	Digital zoom		Original/Resize the image
	Audio on/off		Two-way Audio
	Fisheye Mode		Image Configure
	PTZ control		Manually trigger Camera Alarm Output Note: Ensure that your camera's version is 4X.7.0.78 or above.
	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  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: 1O/1P/2P/4R/1O3R/1P3R

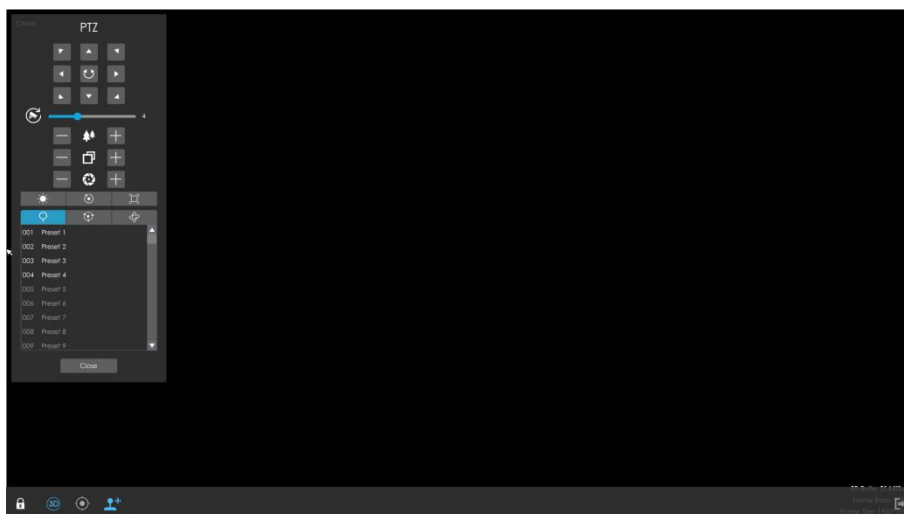
Fisheye Auto Tracking: Comprehensive Fisheye Auto Tracking avoids any details missing by performing the digital Pan/Tilt/Zoom to track the moving objects automatically.

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		Enable/Disable 3D positioning
	PTZ Manual Tracking		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.

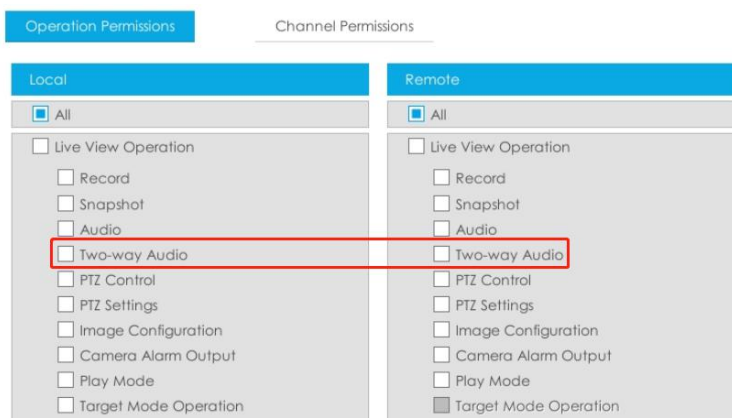
Two-way Audio:

Click  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.

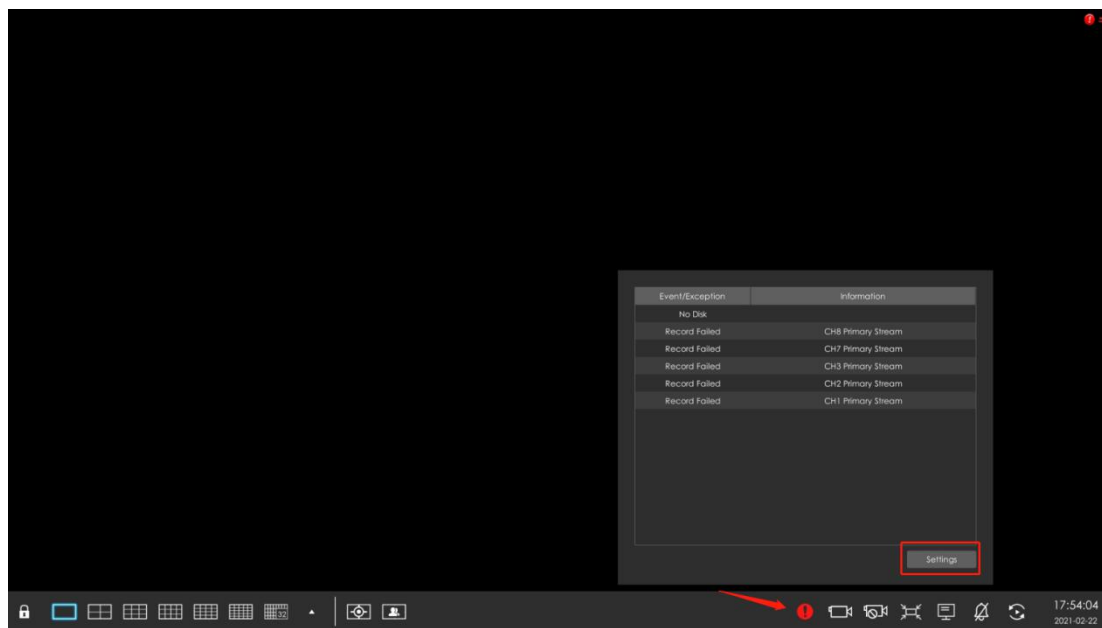
4. The audio interface of NVR can only be used alone. When other devices are talking to NVR, it would indicate that the device is busy if you enable Audio or Two-way Audio of other channels at the same time.



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.

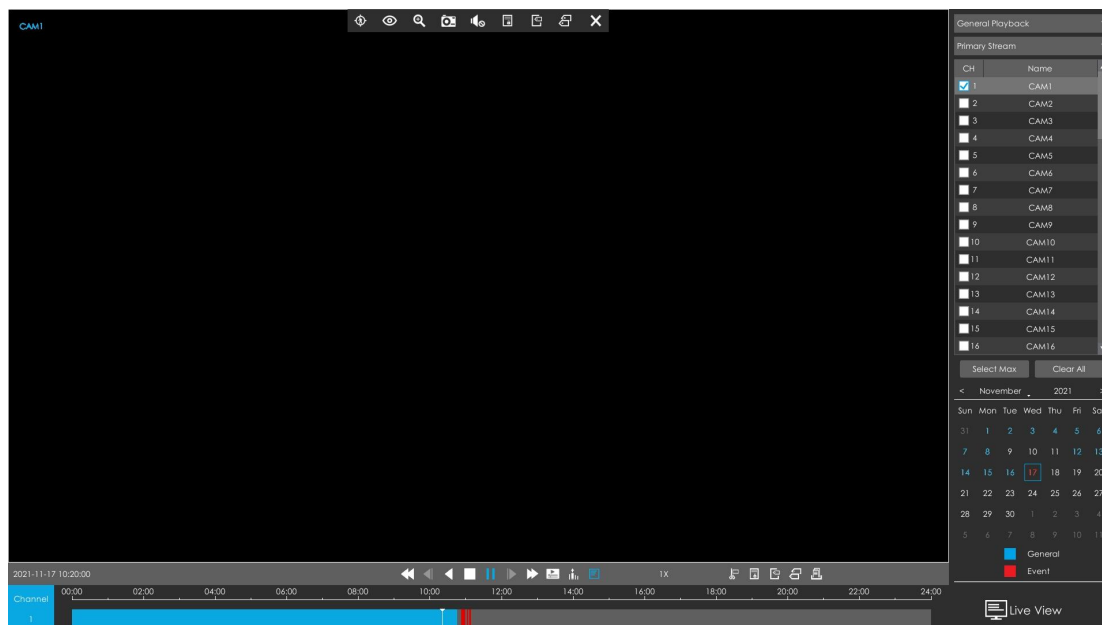
Also, you can select which alarm notification you want to get by click .



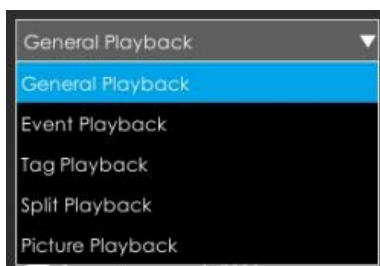
3.3 Playback

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

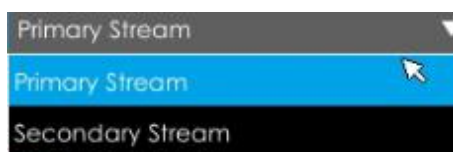


Step1. Select General Playback as playback type.

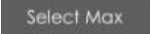


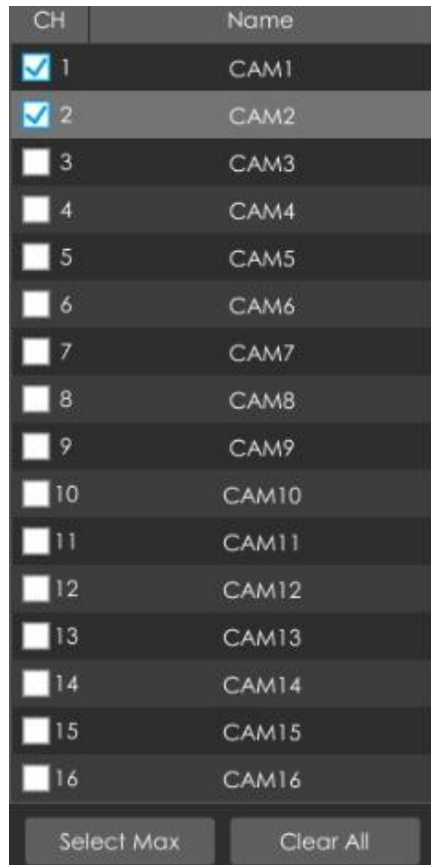
Step2. Select Stream Type.

Primary Stream and Secondary Stream are available.



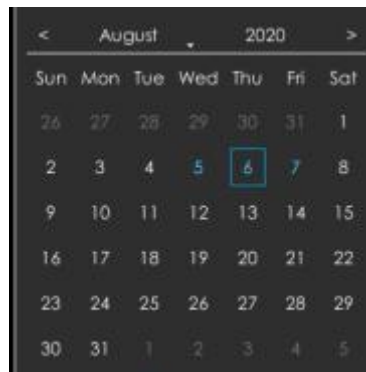
Step3. Select channel.

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.



Step4. Select date.

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



Video Playback Tool Bar Description



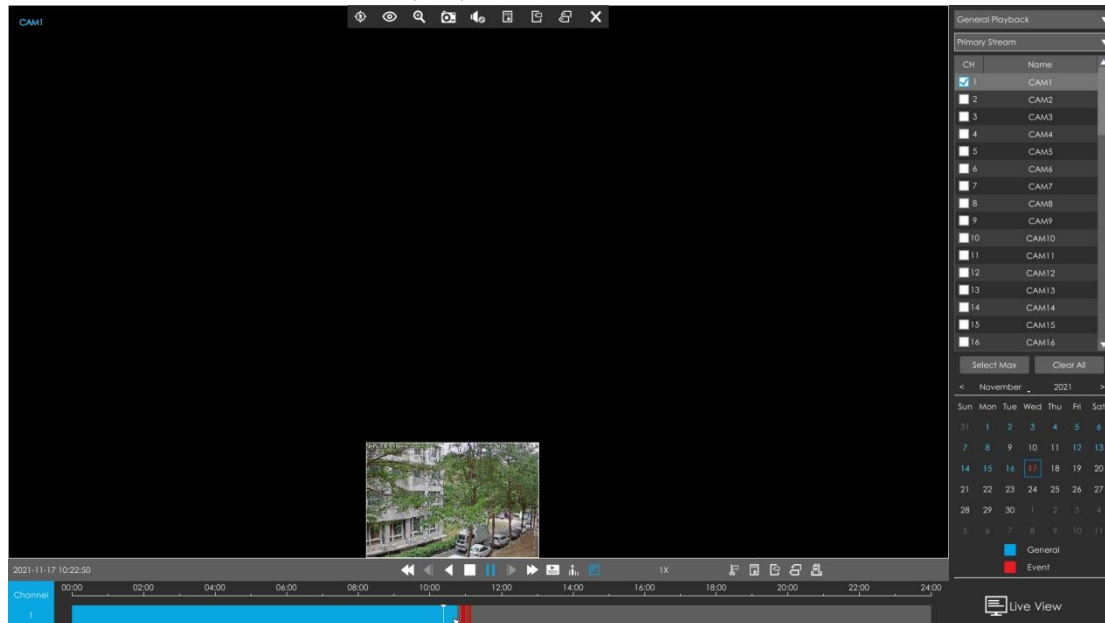
Every channel got their own file bar, and there is only one file bar matching with the selected channel. The tool bar can display multiple types record. It shows that in this record period what kind of event has happened. The symbolic meaning of each color is:

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.



Icons	Descriptions	Icons	Descriptions
	Speed down		Speed up
	Step reverse		Step forward
	Rewind		Play
	Stop		Pause
	Timeline cutting		Lock video file for all channels
	Quick tag for all channels		Custom tag for all channels
	File Management		Zoom in time bar
	Zoom out time bar		Best Decoding Performance
	Smart Play Speed		Display of POS information

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

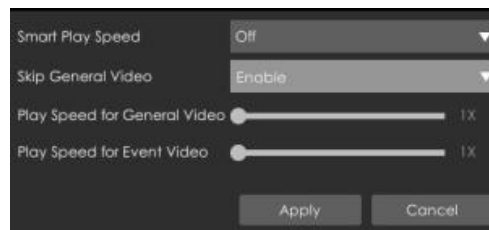
files in the playback page can be identified directly. You can backup video via tag in Retrieve interface or do tag playback in Playback interface.

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.

Quick Operation for single channel

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

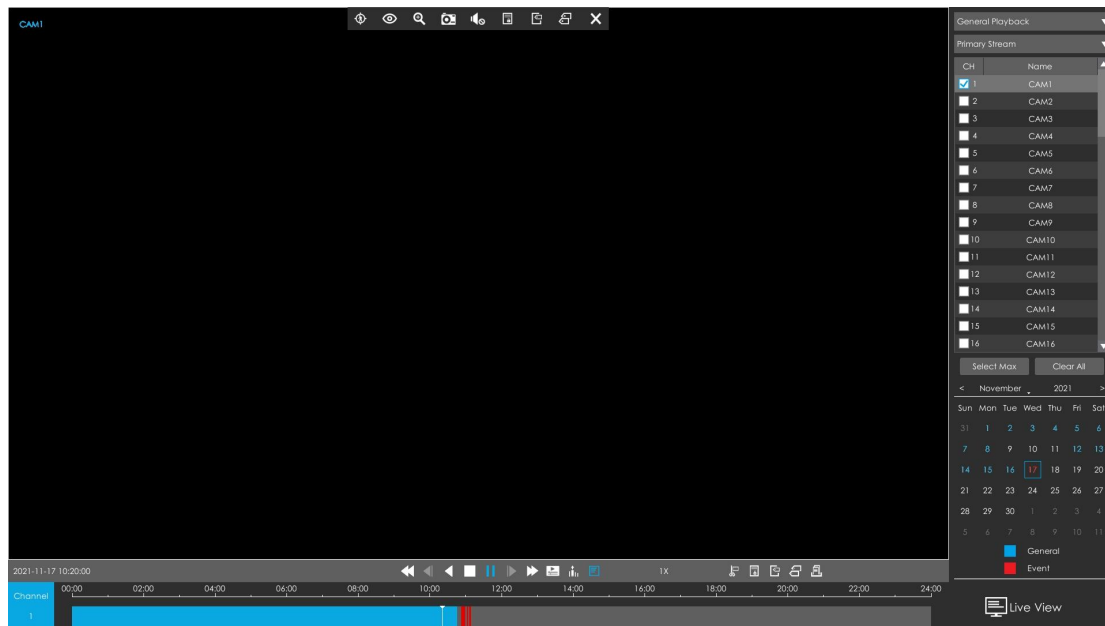



Icons	Descriptions	Icons	Descriptions
	Smart Search		Fisheye Mode
	Digital zoom		Snapshot
	Audio on		Audio off
	Lock video file		Quick tag
	Custom tag		Close menu

Smart Search:

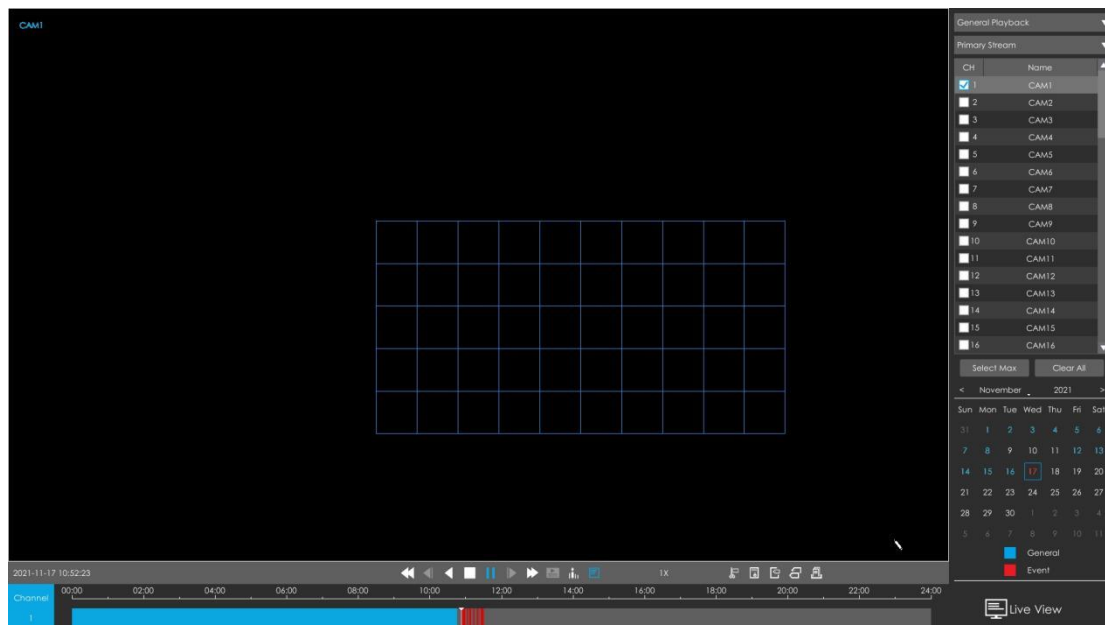
NVR can search out all relevant motion events and play all the event recording files of the selected area. Here are the steps of how to use the function.

- (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.

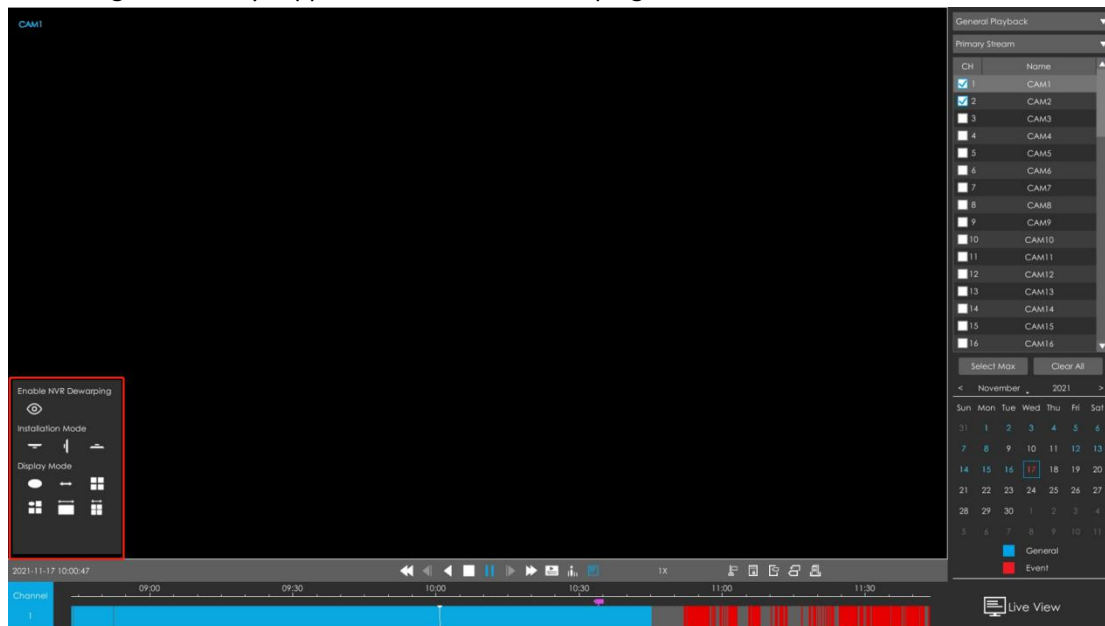
Fisheye Mode:

Click  to enter Fisheye Mode, which will display full screen fisheye channel. Click  on the panel to enter NVR-side Dewarping. Then you can set installation modes and display modes for

the camera. After finished, click  to end Dewarping.

Note:

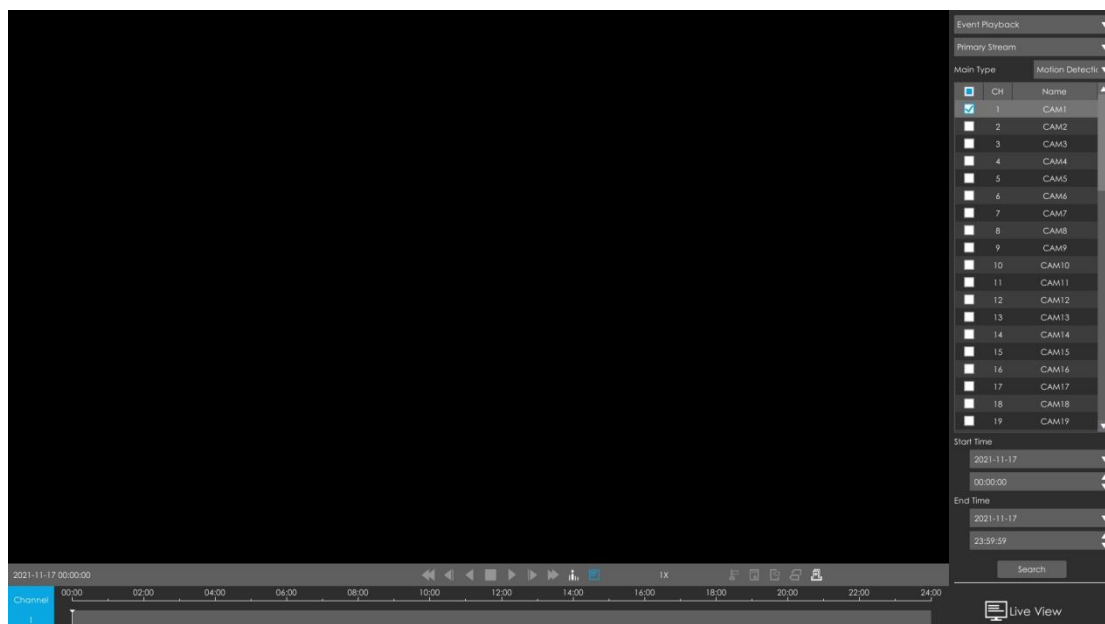
3. NVR-side Dewarping is available for all devices including third-party devices.
4. Milesight NVR Only supports one channel Dewarping.



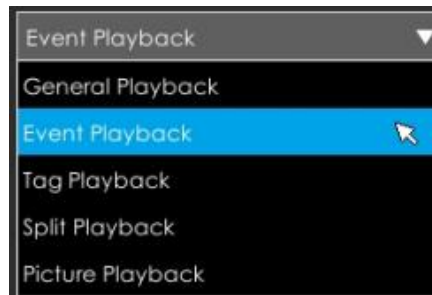
Installation Mode: Ceiling Mount/ Wall Mount/ Table Mount

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

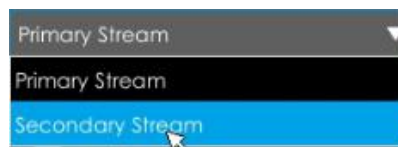
3.3.2 Event Playback



Step 1. Select Event Playback as playback type.

**Step 2. Select Stream Type.**

Primary Stream and Secondary Stream are available.

**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.

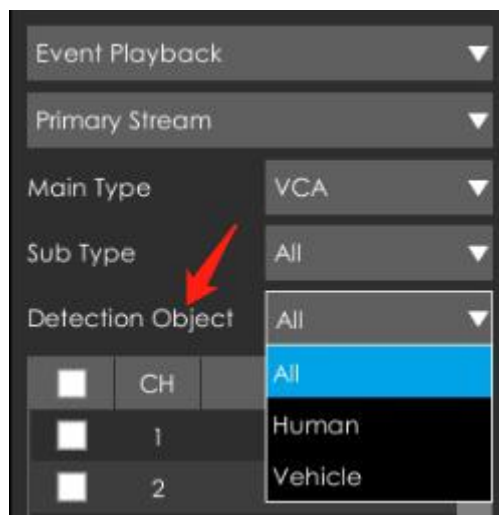
<input type="checkbox"/>	CH	Name
<input checked="" type="checkbox"/>	1	CAM1
<input type="checkbox"/>	2	CAM2
<input type="checkbox"/>	3	CAM3
<input type="checkbox"/>	4	CAM4
<input type="checkbox"/>	5	CAM5
<input type="checkbox"/>	6	CAM6

Step 4. Select Event Type.

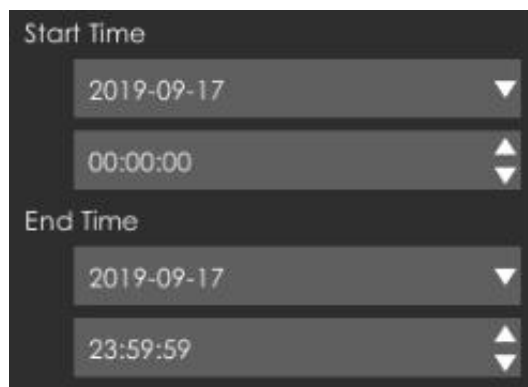
In particular, the Detection Object option is available only if the Main Type is VCA and the Sub Type is one of several VCA events. You can search and playback the video that meets the corresponding conditions according to the selected Detection Object. The Detection Object has three options: All, Human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

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

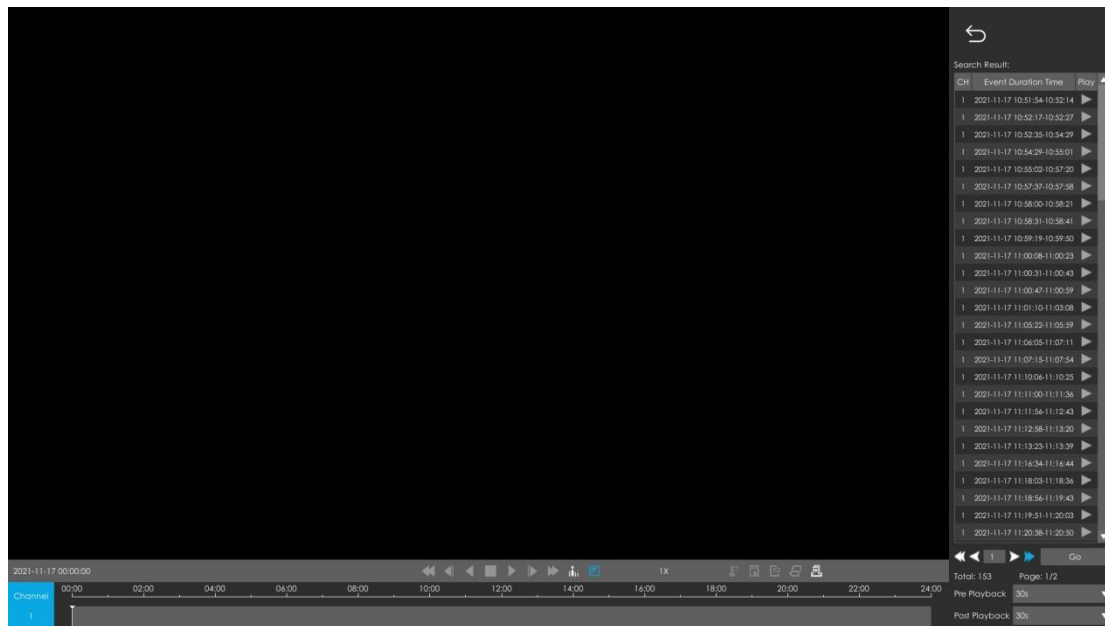
- ① Region Entrance
- ② Region Exiting
- ③ Advanced Motion Detection
- ④ Line Crossing
- ⑤ Loitering



Step 5: Select Start Time and End Time, click  to search the record.

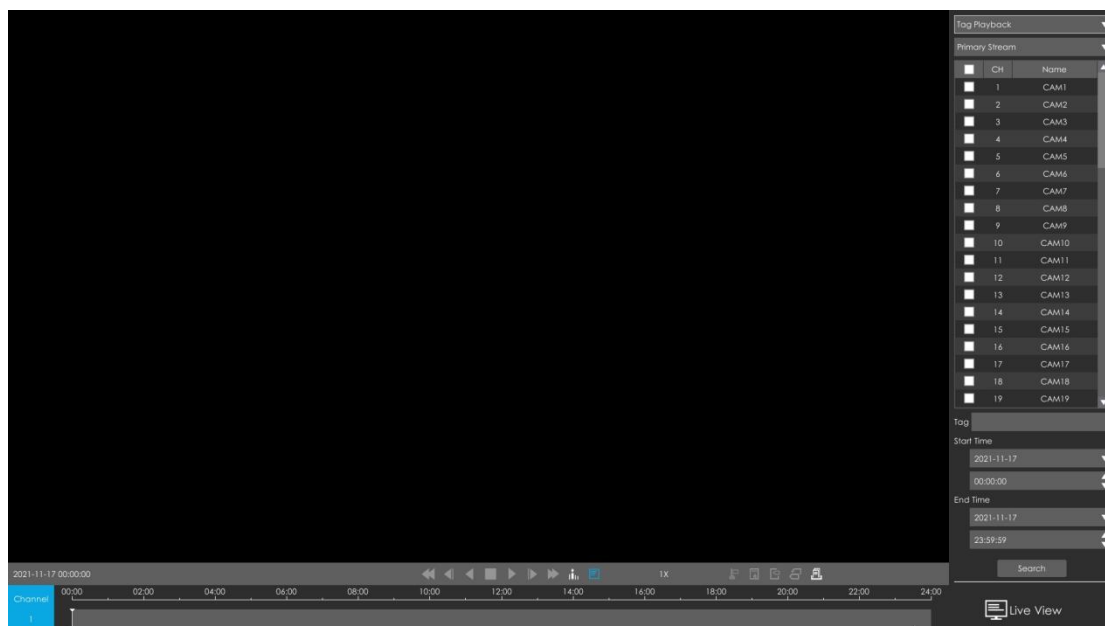


Step 6: It would list all videos after clicking . Set pre playback and post playback time, then play the video by clicking .

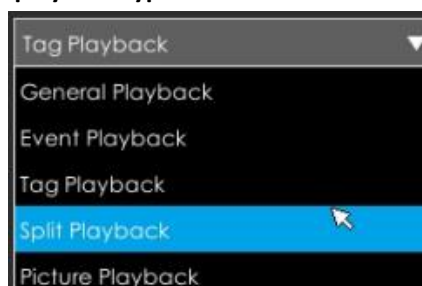


Video Playback Tool Bar Description are the same as General Playback, except for those icons that are not locked or tagged on the playback bar.

3.3.3 Tag Playback

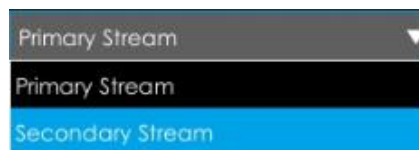


Step 1. Select Tag Playback as playback type.

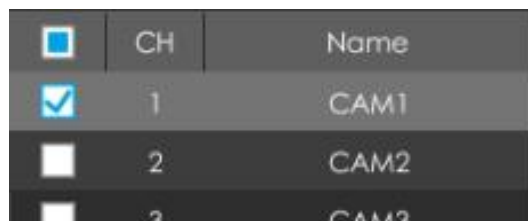
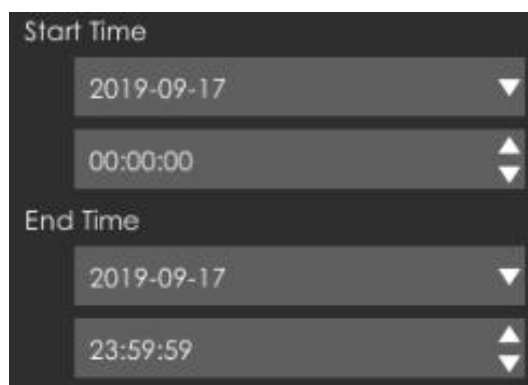


Step 2. Select Stream Type.

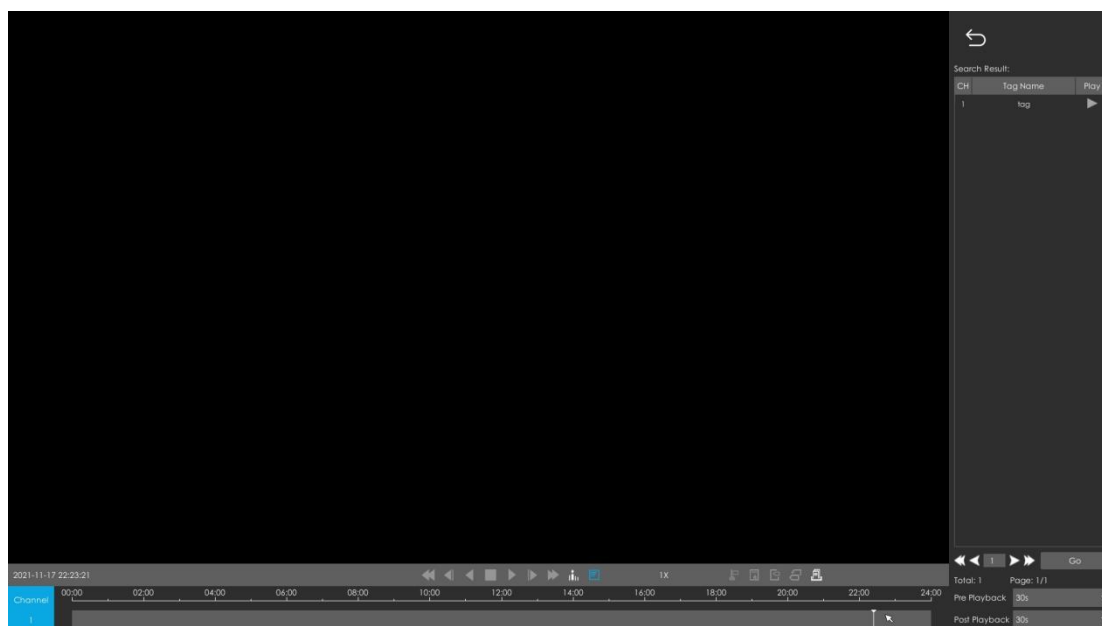
Primary Stream and Secondary Stream are available.

**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.

**Step 4. Input tag name or any key words of tag.****Step 5: Select Start Time and End Time.**

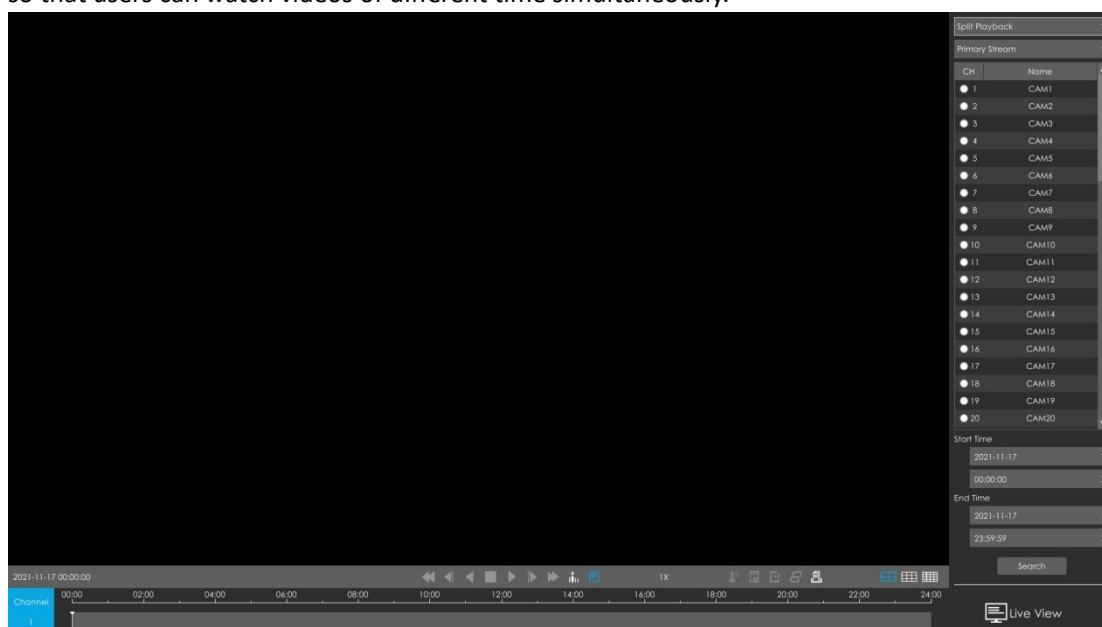
Step 6: It would list all tagged video after clicking . Set pre playback and post playback time, then play the tag video by clicking .



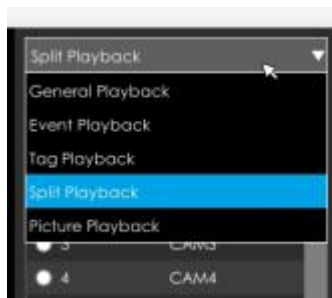
Video Playback Tool Bar Description are the same as **General Playback**, except for those icons that are not locked or tagged on the playback bar.

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.



Step 1. Select Split Playback as playback type.



Step 2. Select Stream Type.

Primary Stream and Secondary Stream are available.

Step 3. Select channel.

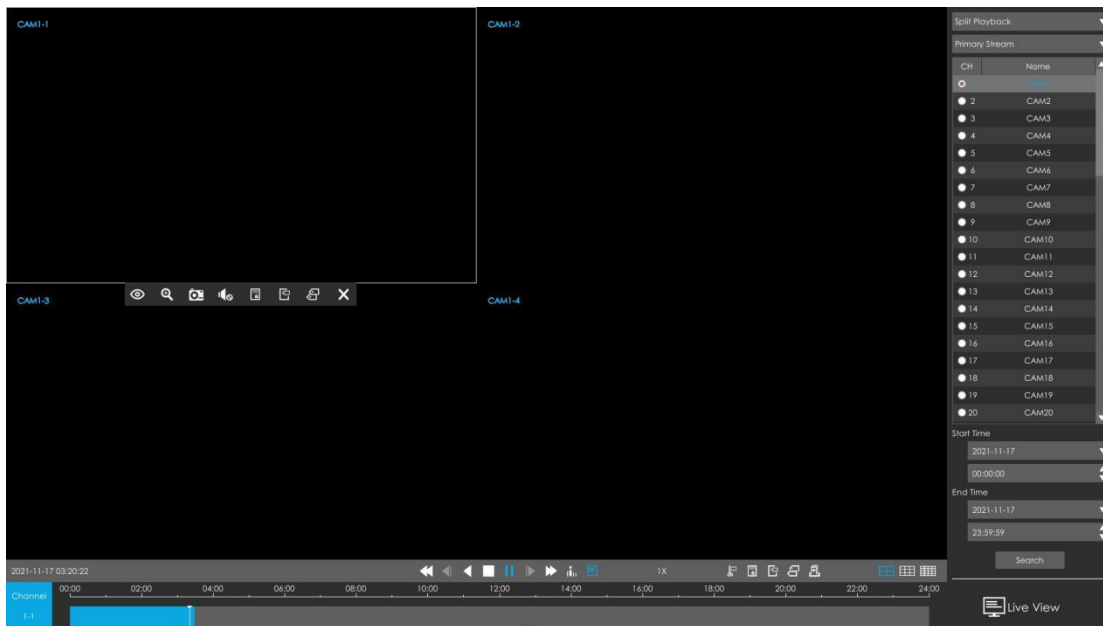
Select a channel you want to do play back. You are allowed to select only one channel at one time.

<input type="checkbox"/>	CH	Name
<input checked="" type="checkbox"/>	1	CAM1
<input type="checkbox"/>	2	CAM2
<input type="checkbox"/>	3	CAM3
<input type="checkbox"/>	4	CAM4
<input type="checkbox"/>	5	CAM5
<input type="checkbox"/>	6	CAM6
<input type="checkbox"/>	7	CAM7
<input type="checkbox"/>	8	CAM8
<input type="checkbox"/>	9	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

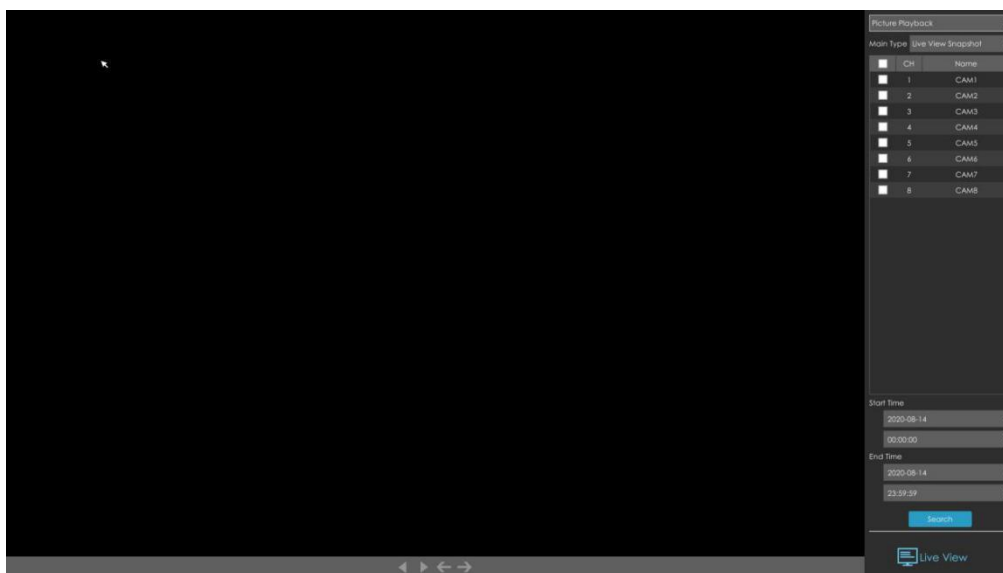
Step 5: It would start playing after clicking , displayed in 4 split screens by default.



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.

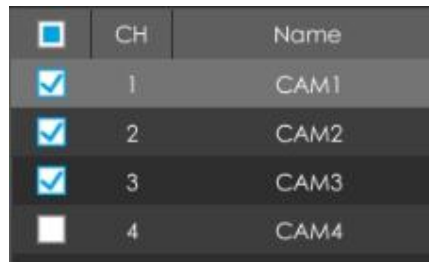
3.3.5 Picture Playback



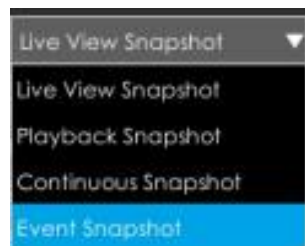
Step 1. Select Picture Playback as playback type.



Step 2. Select channel.



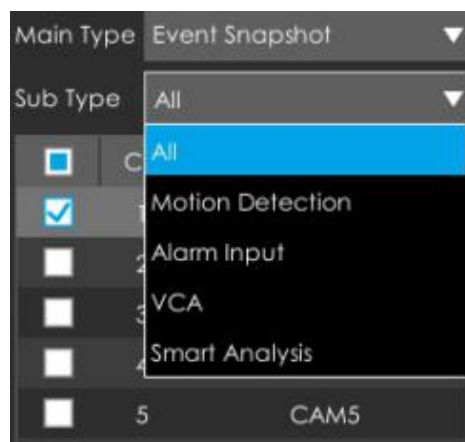
Step 3. Select Snapshot type, including Live View Snapshot, Playback Snapshot, Continuous Playback and Event Playback.



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.

Start Time


2019-09-17

00:00:00

End Time

2019-09-17

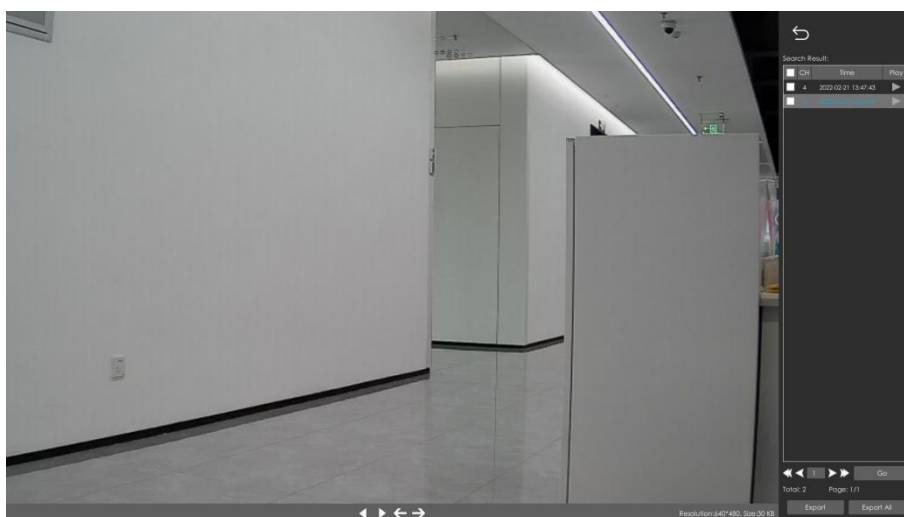
23:59:59

Step 5: It would list all snapshot after clicking .

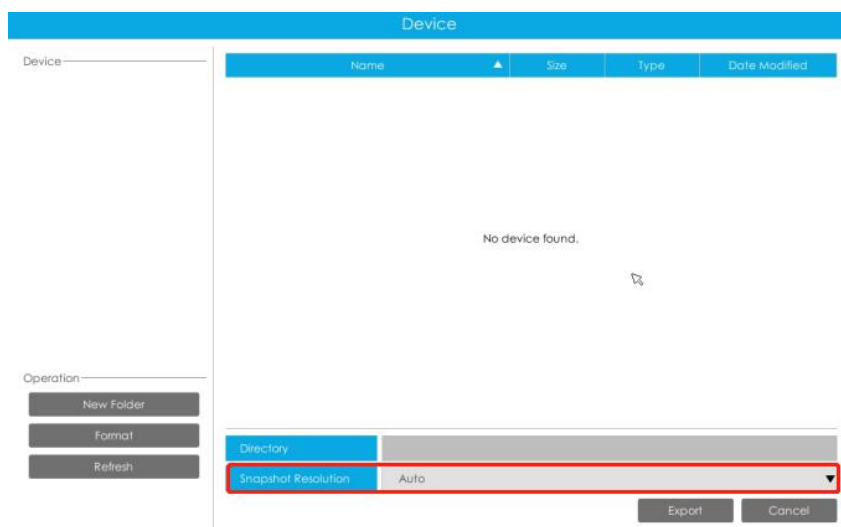
Click  to play the selected picture, or click  to auto play pictures.


Note:

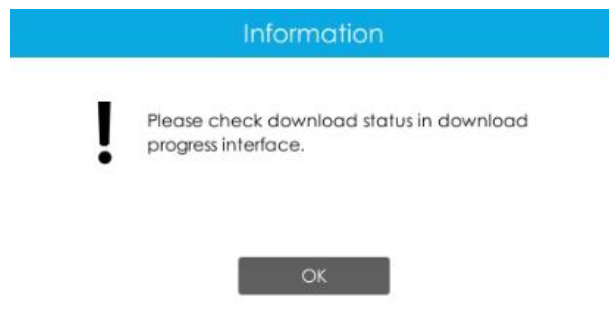
1. You can export picture by clicking  or .





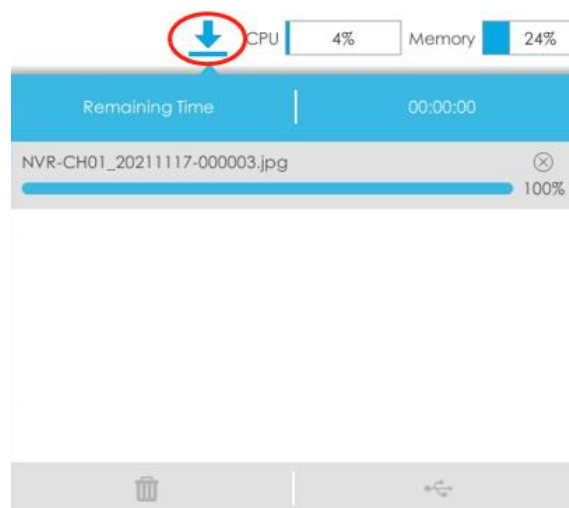
2. Select Dictionary and Snapshot Resolution to be exported. The Snapshot Resolution includes Auto, 704*576, 640*360, and the default option is Auto.



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








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.

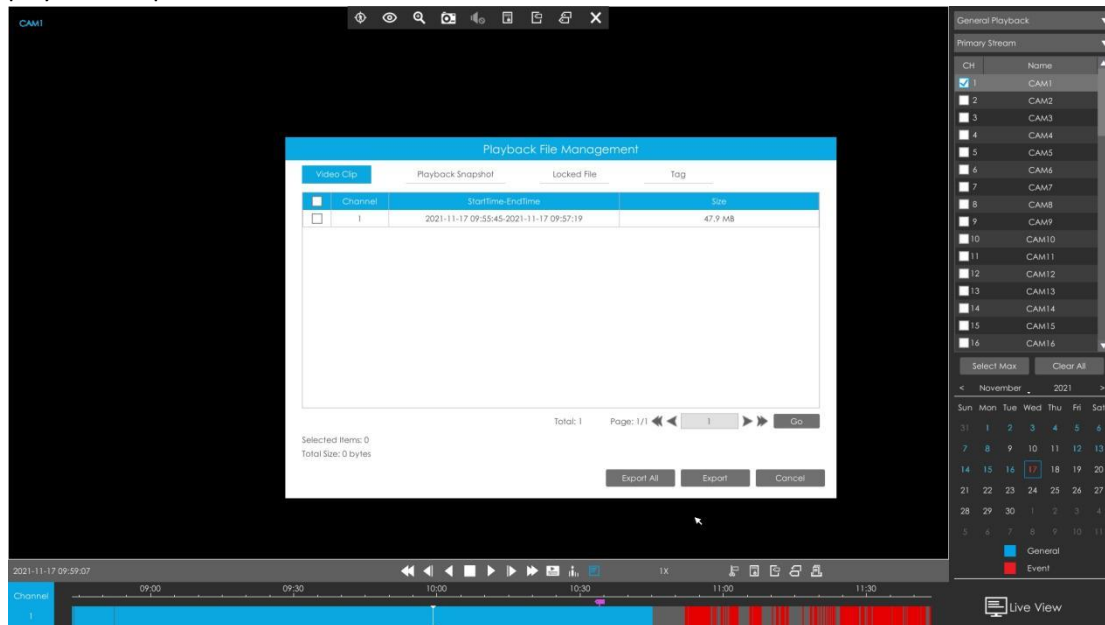
Only one file can be downloaded at a time, and files are downloaded in the order.

Icons	Descriptions	Icons	Descriptions
	Play backward		Play
	Previous picture		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.

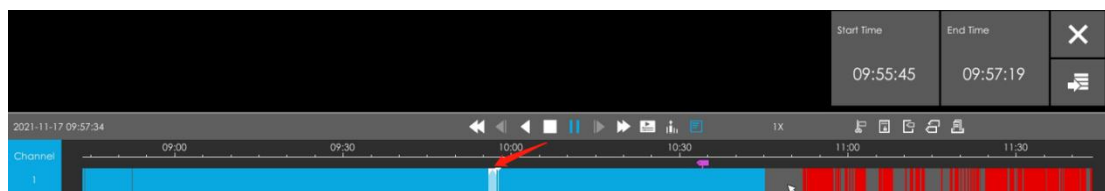
Operation includes clip video, snapshot, lock file and tag. Besides, you can export clipped video, playback snapshot and locked file to USB drives and eSATA.




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 , 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**

Export

to export video.

Playback File Management

Video Clip Playback Snapshot Locked File Tag

<input type="checkbox"/>	Channel	StartTime-EndTime	Size
<input checked="" type="checkbox"/>	1	2019-09-17 00:00:00-2019-09-17 00:01:19	42.4 MB
<input type="checkbox"/>	1	2019-09-17 00:01:19-2019-09-17 00:30:01	907.4 MB
<input type="checkbox"/>	1	2019-09-17 00:30:04-2019-09-17 00:32:39	82.4 MB
<input type="checkbox"/>	1	2019-09-17 00:32:39-2019-09-17 00:33:27	25.1 MB
<input type="checkbox"/>	1	2019-09-17 00:33:27-2019-09-17 00:51:27	569.0 MB

Total: 5 Page: 1/1 1 Go

Selected Items: 1
Total Size: 42.4 MB

Export All **Export** Cancel

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

The screenshot shows the 'Device' selection dialog in the Milesight NVR interface. The dialog has a 'Device' section on the left showing 'Flash Disk' with '0%' free space and '7.4G Total: 7.4G'. Below this are 'New Folder', 'Format', and 'Refresh' buttons. The main area is a table of storage devices:

Name	Size	Type	Date Modified
CH2_20211025115134.mp4	3.7 MB	File	2021-11-12 17:22:11
NVR_People_Counting_by_Camera_2021110...	4 KB	File	2021-11-04 16:41:06
NVR_People_Counting_by_Camera_2021110...	4 KB	File	2021-11-05 16:41:06
NVR_People_Counting_by_Camera_2021110...	4 KB	File	2021-11-06 16:41:06
NVR_People_Counting_by_Camera_2021110...	4 KB	File	2021-11-07 16:41:06
NVR_People_Counting_by_Camera_2021110...	4 KB	File	2021-11-08 16:41:06
NVR_People_Counting_by_Camera_2021111...	4 KB	File	2021-11-15 16:41:07
NVR_People_Counting_by_Camera_2021111...	4 KB	File	2021-11-16 16:41:07
NVR_People_Counting_by_Camera_CH01_2...	111 bytes	File	2021-11-12 16:41:06
NVR_People_Counting_by_Camera_CH01_2...	134 bytes	File	2021-11-13 16:41:06
NVR_People_Counting_by_Camera_CH01_2...	155 bytes	File	2021-11-14 16:41:07

Below the table is a 'Directory' field set to '/media/sub1_1' and a 'Video File Format' dropdown menu with options: MP4, MP4, AVI, PS. The background shows the playback interface with a calendar for November 2021 and a list of channels (CAM1 to CAM16).

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.



Information

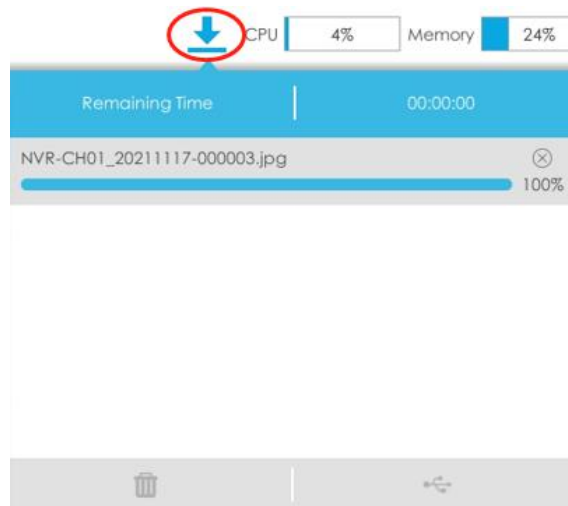
! Please check download status in download progress interface.

OK

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  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.

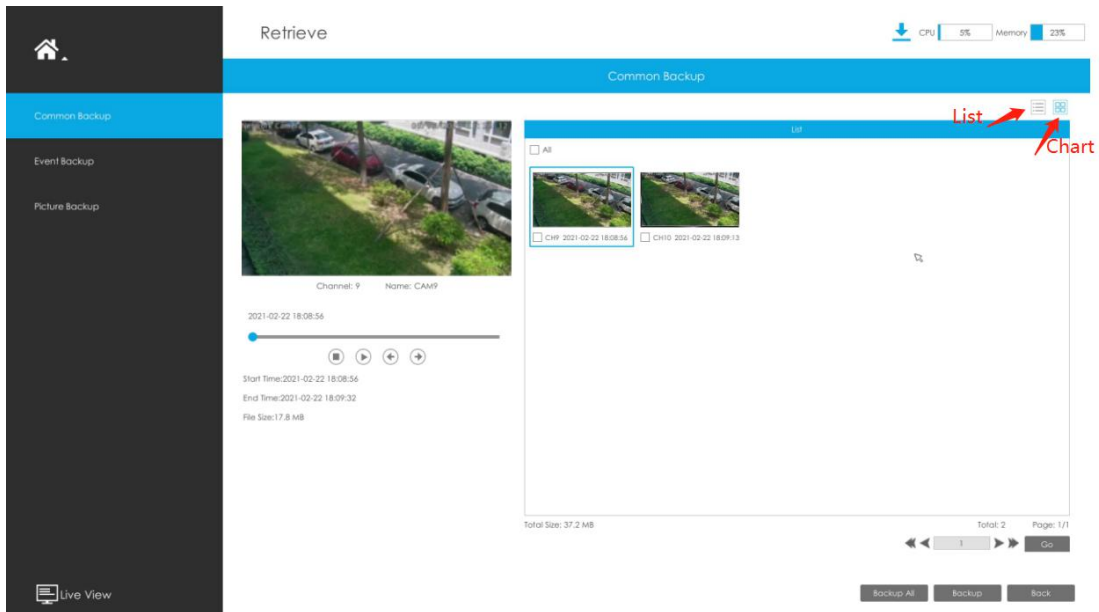
The screenshot shows the 'Retrieve' interface with the following elements:


- Channel Selection:** A grid of checkboxes for channels 1 through 64.
- Filters:**
 - Stream Type: Primary Stream
 - Record Type: All
 - File Type: All
 - Start Time: 2021-02-22
 - End Time: 2021-02-22
- Search and Navigation:** Search and Back buttons at the bottom right.

Step 1: Set the search condition and click  to search video.



Channel	<input checked="" type="checkbox"/> All							
	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 6	<input checked="" type="checkbox"/> 7	<input checked="" type="checkbox"/> 8
	<input checked="" type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input checked="" type="checkbox"/> 11	<input checked="" type="checkbox"/> 12	<input checked="" type="checkbox"/> 13	<input checked="" type="checkbox"/> 14	<input checked="" type="checkbox"/> 15	<input checked="" type="checkbox"/> 16
	<input checked="" type="checkbox"/> 17	<input checked="" type="checkbox"/> 18	<input checked="" type="checkbox"/> 19	<input checked="" type="checkbox"/> 20	<input checked="" type="checkbox"/> 21	<input checked="" type="checkbox"/> 22	<input checked="" type="checkbox"/> 23	<input checked="" type="checkbox"/> 24
	<input checked="" type="checkbox"/> 25	<input checked="" type="checkbox"/> 26	<input checked="" type="checkbox"/> 27	<input checked="" type="checkbox"/> 28	<input checked="" type="checkbox"/> 29	<input checked="" type="checkbox"/> 30	<input checked="" type="checkbox"/> 31	<input checked="" type="checkbox"/> 32
	<input checked="" type="checkbox"/> 33	<input checked="" type="checkbox"/> 34	<input checked="" type="checkbox"/> 35	<input checked="" type="checkbox"/> 36	<input checked="" type="checkbox"/> 37	<input checked="" type="checkbox"/> 38	<input checked="" type="checkbox"/> 39	<input checked="" type="checkbox"/> 40
	<input checked="" type="checkbox"/> 41	<input checked="" type="checkbox"/> 42	<input checked="" type="checkbox"/> 43	<input checked="" type="checkbox"/> 44	<input checked="" type="checkbox"/> 45	<input checked="" type="checkbox"/> 46	<input checked="" type="checkbox"/> 47	<input checked="" type="checkbox"/> 48
	<input checked="" type="checkbox"/> 49	<input checked="" type="checkbox"/> 50	<input checked="" type="checkbox"/> 51	<input checked="" type="checkbox"/> 52	<input checked="" type="checkbox"/> 53	<input checked="" type="checkbox"/> 54	<input checked="" type="checkbox"/> 55	<input checked="" type="checkbox"/> 56
	<input checked="" type="checkbox"/> 57	<input checked="" type="checkbox"/> 58	<input checked="" type="checkbox"/> 59	<input checked="" type="checkbox"/> 60	<input checked="" type="checkbox"/> 61	<input checked="" type="checkbox"/> 62	<input checked="" type="checkbox"/> 63	<input checked="" type="checkbox"/> 64
Time	From 2020-12-04 03:30:49 To 2021-02-22 18:04:25							
Stream Type	Primary Stream							
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.





Step 2: Select the file you want to backup and click . Also, you can click

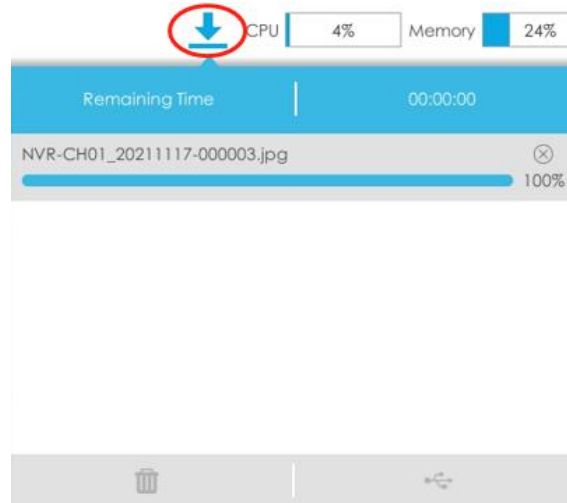
 to backup all recorded videos.

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.

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

Export to export selected files.

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.

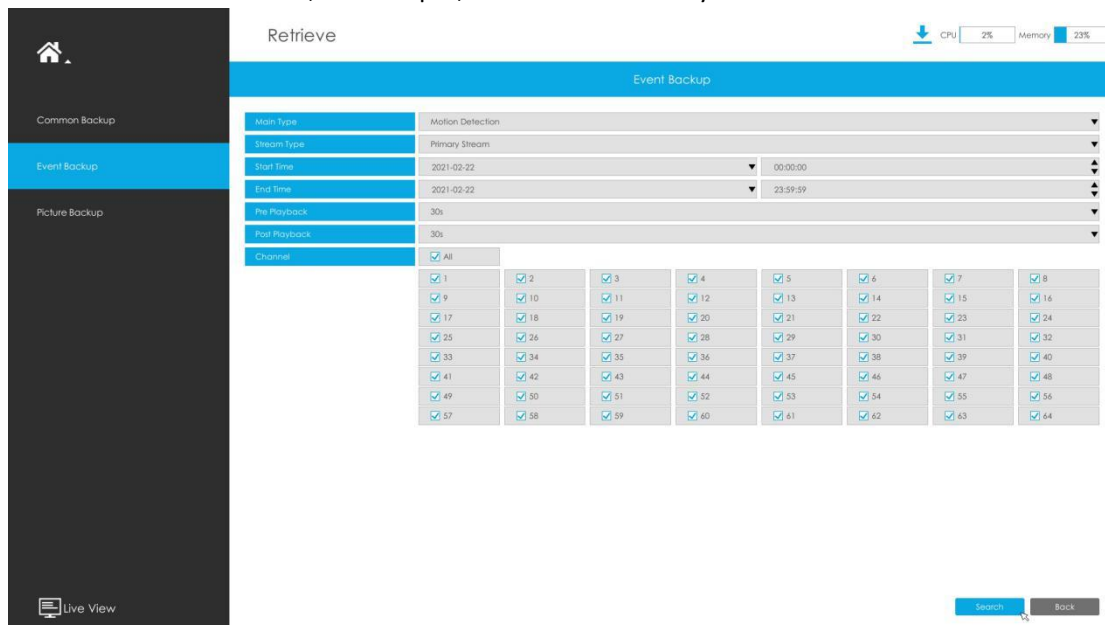
**Note:**

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.

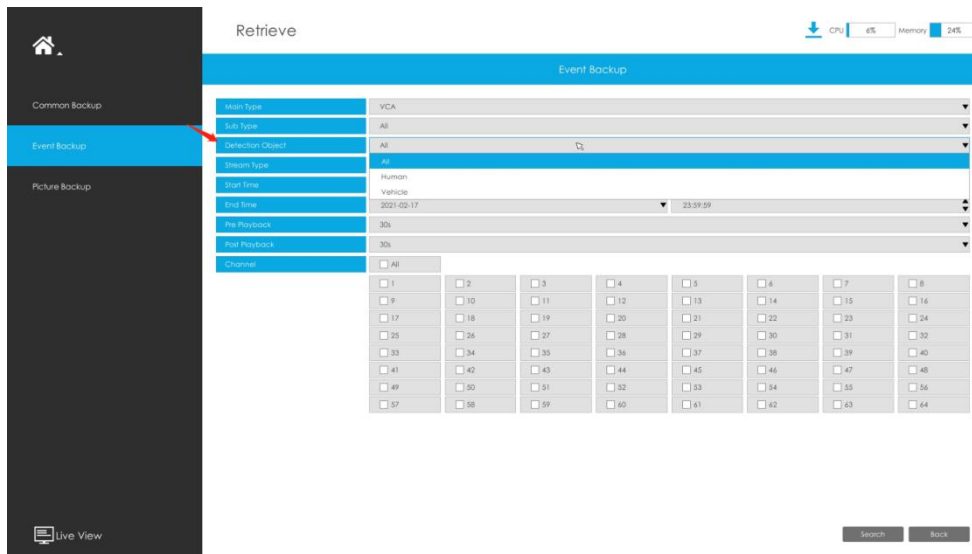


In particular, the Detection Object option is available in the Event Backup interface only if the Main Type is VCA and the Sub Type is one of several VCA events. You can search and backup the results that meet the corresponding conditions according to the selected Detection Object. The Detection Object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

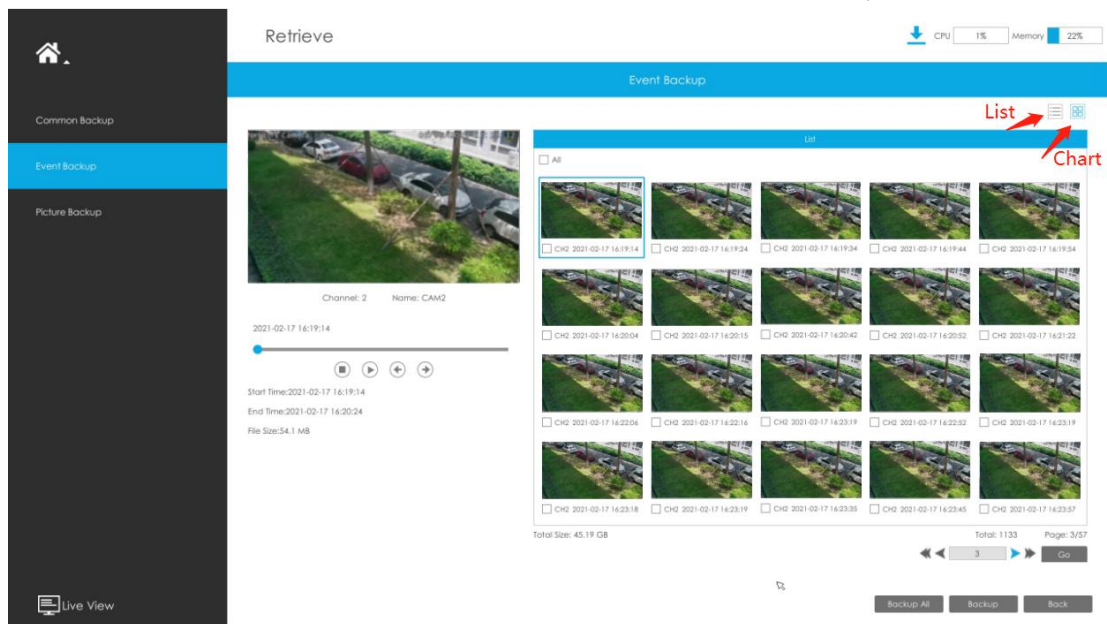
- ③ Advanced Motion Detection
- ④ Line Crossing
- ⑤ Loitering






Step 1: Set the search condition and click  to search video.

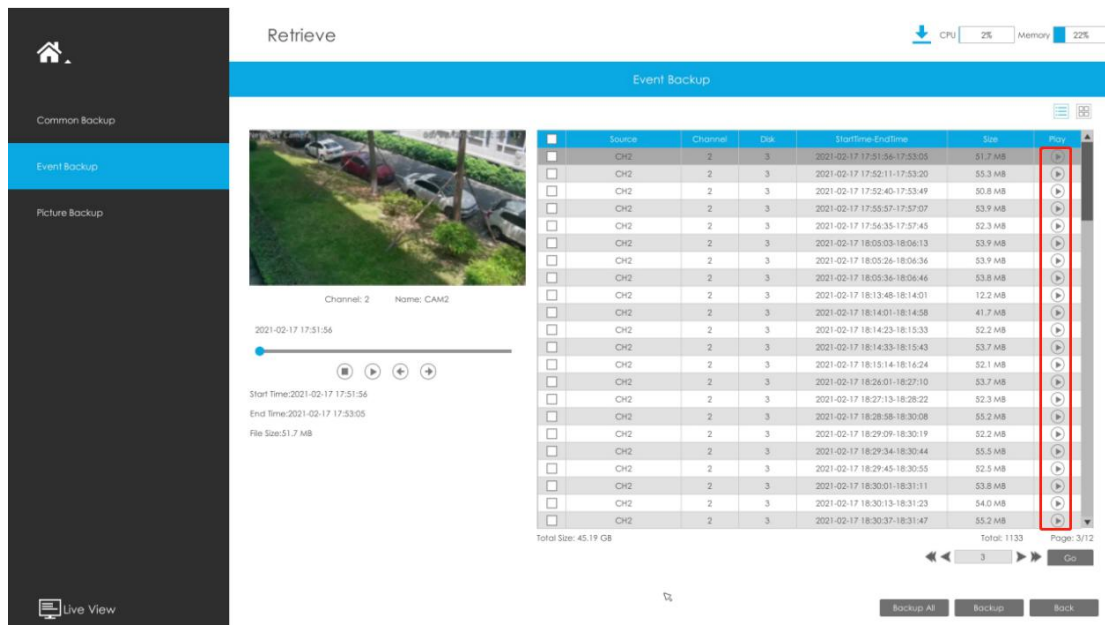


The search result can be chosen as a List or Chart. The default search result presents as a list.



Step 2: Select the file you want to backup and click . Also, you can click  to backup all recorded video.

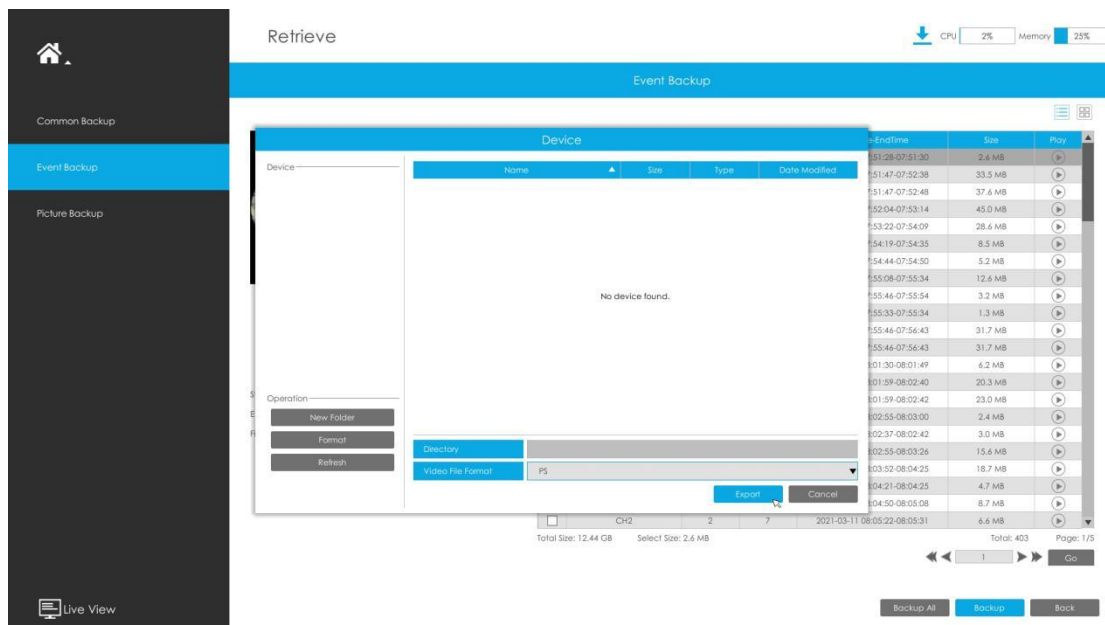
In Event Backup interface, you can click  to play the video.





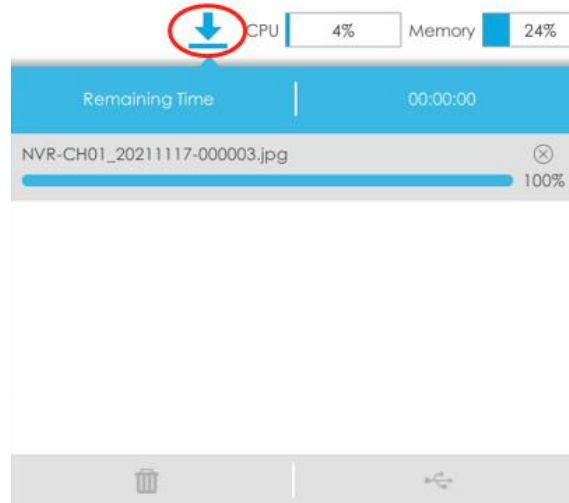
Source	Channel	Disk	Start/End Time	Size	Play
CH2	2	3	2021-02-17 17:51:56-17:53:02	51.7 MB	▶
CH2	2	3	2021-02-17 17:52:11-17:53:20	55.3 MB	▶
CH2	2	3	2021-02-17 17:52:40-17:53:49	50.8 MB	▶
CH2	2	3	2021-02-17 17:55:57-17:57:07	53.9 MB	▶
CH2	2	3	2021-02-17 17:56:35-17:57:45	52.3 MB	▶
CH2	2	3	2021-02-17 18:05:03-18:06:13	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	▶
CH2	2	3	2021-02-17 18:13:48-18:14:01	12.2 MB	▶
CH2	2	3	2021-02-17 18:14:01-18:14:58	41.7 MB	▶
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	▶
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	▶
CH2	2	3	2021-02-17 18:27:13-18:28:22	52.3 MB	▶
CH2	2	3	2021-02-17 18:28:58-18:30:08	55.2 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	▶
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	▶

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

Export  to export selected files.



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.

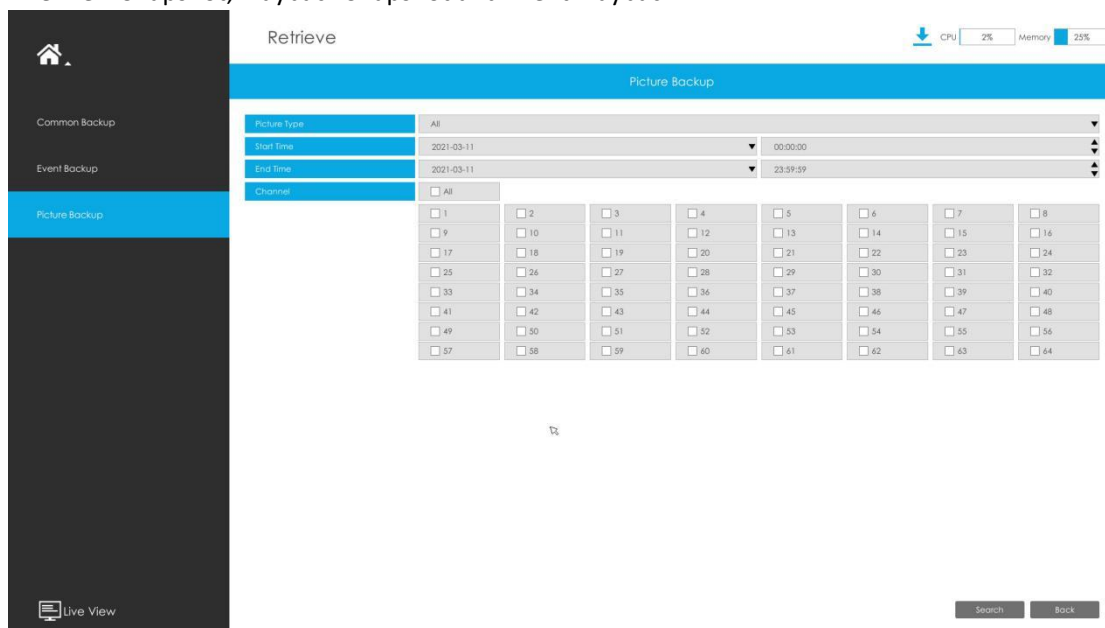
**Note:**

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.

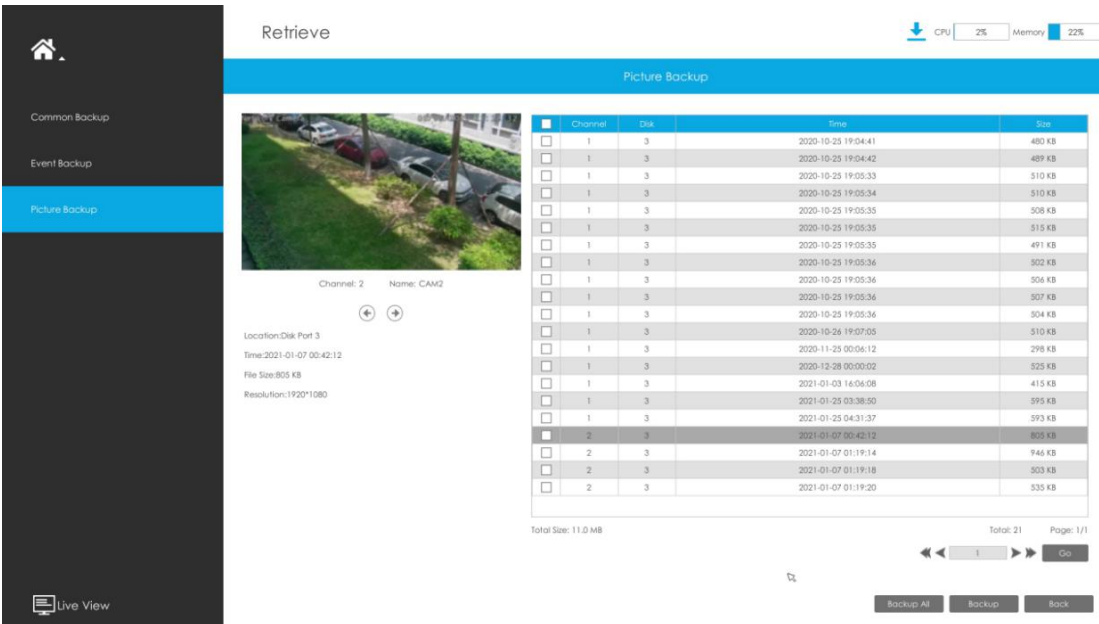


Step 1: Set the search condition and click  to search snapshot.



Step 2: Select the file you want to backup and click  . Also, you can click

 to backup all recorded videos.



Retrieve CPU 2% Memory 22%




Picture Backup

Channel: 2 Name: CAM2

Location: Disk Part 3
Time: 2021-01-07 00:42:12
File Size: 805 KB
Resolution: 1920*1080

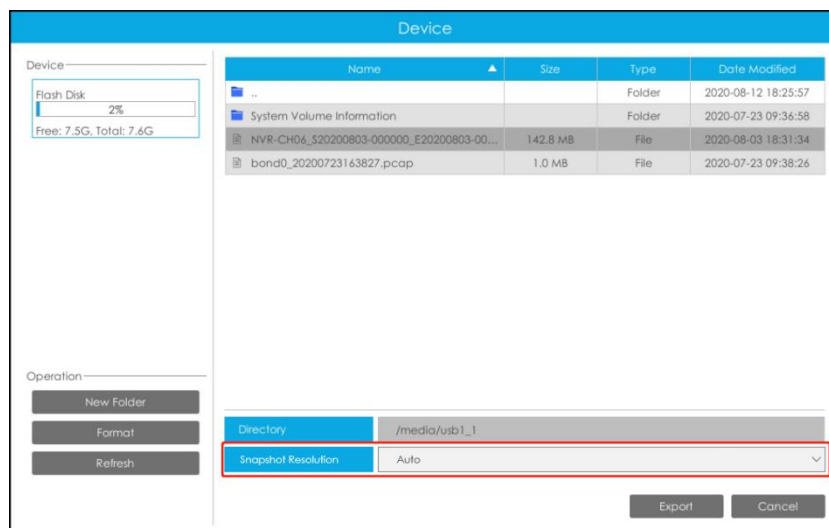
Channel	Disk	Time	Size	
<input type="checkbox"/>	1	3	2020-10-25 19:04:41	480 KB
<input type="checkbox"/>	1	3	2020-10-25 19:04:42	489 KB
<input type="checkbox"/>	1	3	2020-10-25 19:05:33	510 KB
<input type="checkbox"/>	1	3	2020-10-25 19:05:34	510 KB
<input type="checkbox"/>	1	3	2020-10-25 19:05:35	508 KB
<input type="checkbox"/>	1	3	2020-10-25 19:05:35	515 KB
<input type="checkbox"/>	1	3	2020-10-25 19:05:35	491 KB
<input type="checkbox"/>	1	3	2020-10-25 19:05:36	502 KB
<input type="checkbox"/>	1	3	2020-10-25 19:05:36	506 KB
<input type="checkbox"/>	1	3	2020-10-25 19:05:36	507 KB
<input type="checkbox"/>	1	3	2020-10-25 19:05:36	504 KB
<input type="checkbox"/>	1	3	2020-10-26 19:07:05	510 KB
<input type="checkbox"/>	1	3	2020-11-25 00:06:12	298 KB
<input type="checkbox"/>	1	3	2020-12-28 00:02:02	525 KB
<input type="checkbox"/>	1	3	2021-01-03 16:04:08	415 KB
<input type="checkbox"/>	1	3	2021-01-25 02:38:50	395 KB
<input type="checkbox"/>	1	3	2021-01-25 04:31:37	593 KB
<input type="checkbox"/>	2	3	2021-01-07 00:42:12	805 KB
<input type="checkbox"/>	2	3	2021-01-07 01:19:14	946 KB
<input type="checkbox"/>	2	3	2021-01-07 01:19:18	503 KB
<input type="checkbox"/>	2	3	2021-01-07 01:19:20	535 KB

Total Size: 11.0 MB Total: 21 Page: 1/1

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

 to export selected snapshots .



Device



Flash Disk 2%
Free: 7.5G, Total: 7.6G



Name	Size	Type	Date Modified
..		Folder	2020-08-12 18:25:57
System Volume Information		Folder	2020-07-23 09:36:58
NVR-CH06_S20200803-000000_E20200803-00...	142.8 MB	File	2020-08-03 18:31:34
bond0_20200723163827.pcap	1.0 MB	File	2020-07-23 09:38:26

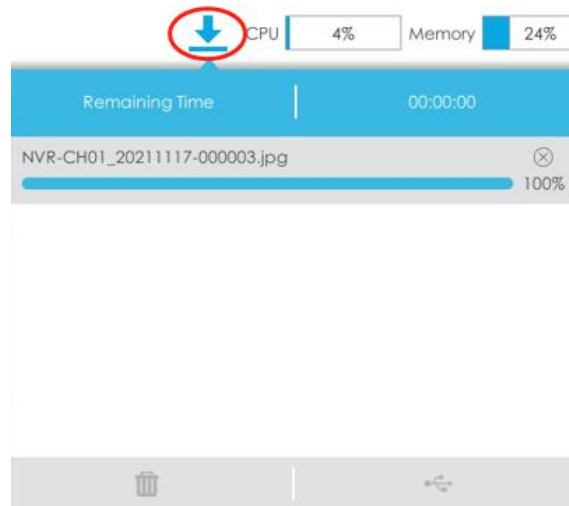
Operation

New Folder
Format
Refresh

Directory /media/usb1_1
Snapshot Resolution Auto

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

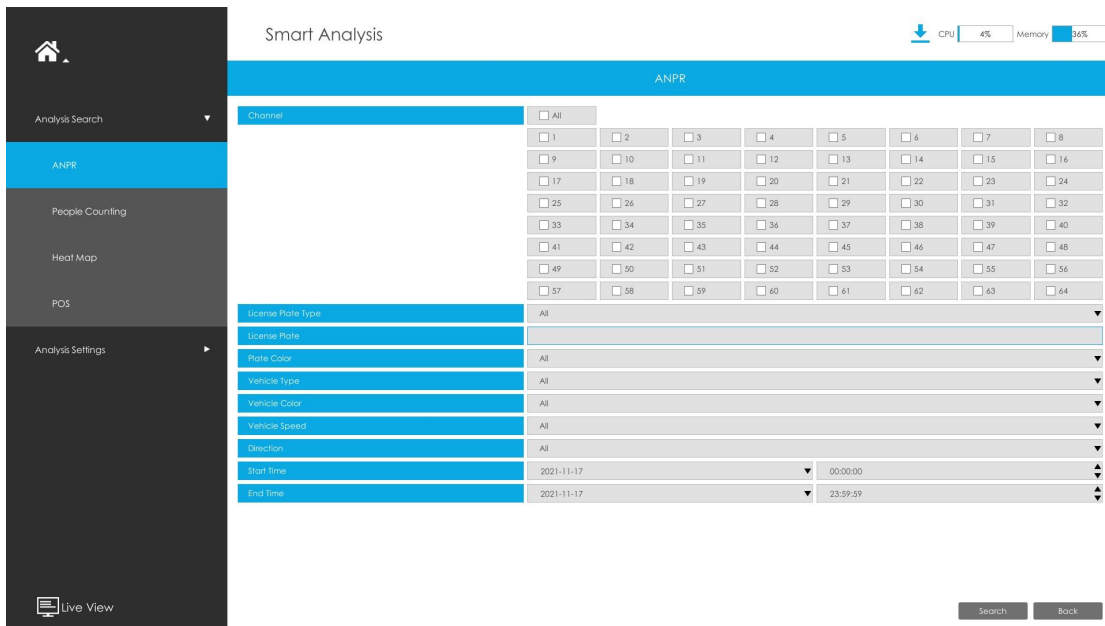
You can get ANPR logs, Face Detection results, People Counting results and Heat Map results in the page, as well as Settings for ANPR, Face Detection, People Counting and Heat Map.



3.5.1 Analysis Search

3.5.1.1 ANPR

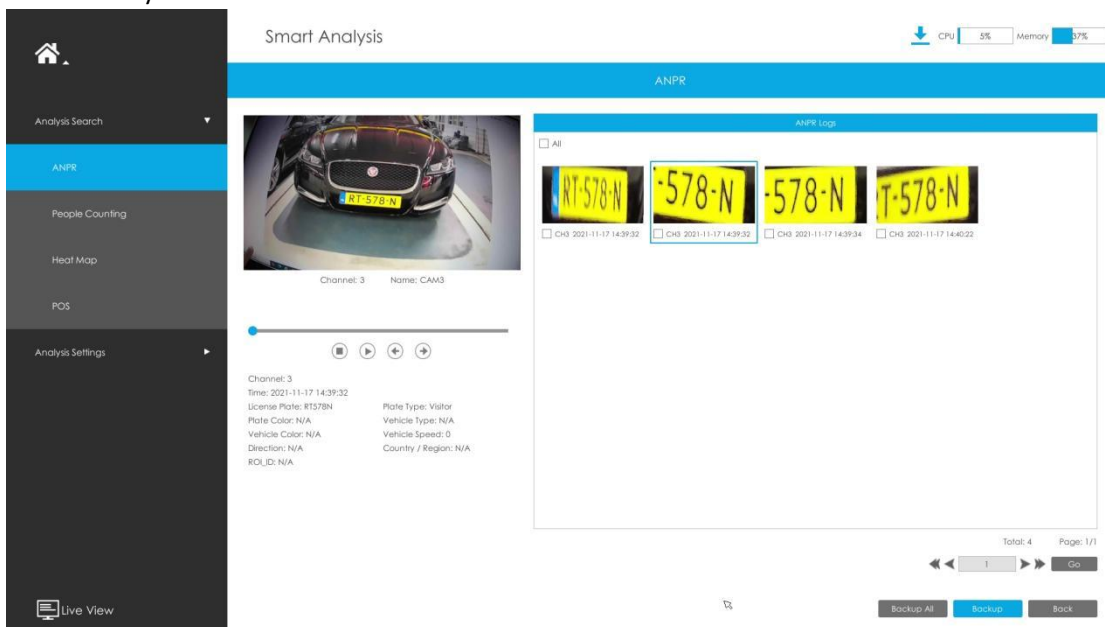
You can Search and Backup ANPR logs.




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. Users can also filter ANPR results by Plate Color, Vehicle Type, Vehicle Color, Vehicle Speed and Direction.

Note:

Ensure that your NVR model is MS-NXXXX-XXT or MS-NXXXX-XXH.




You can click  to play the video.

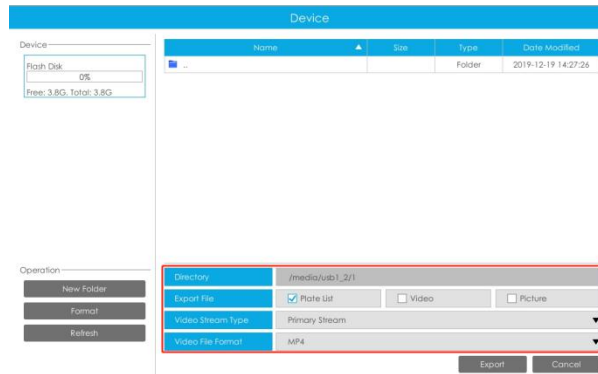


There are two methods to backup ANPR logs.

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.



② Backup all.

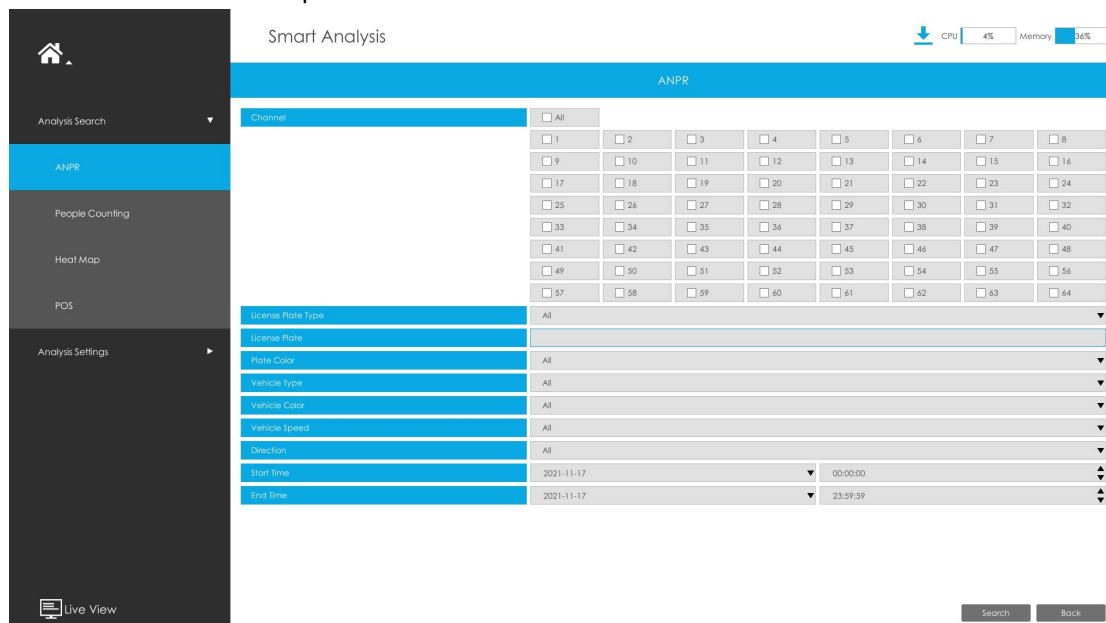
Step1: Click backup all  button;


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 Face Detection

You can Search and Backup the results of Face Detection.

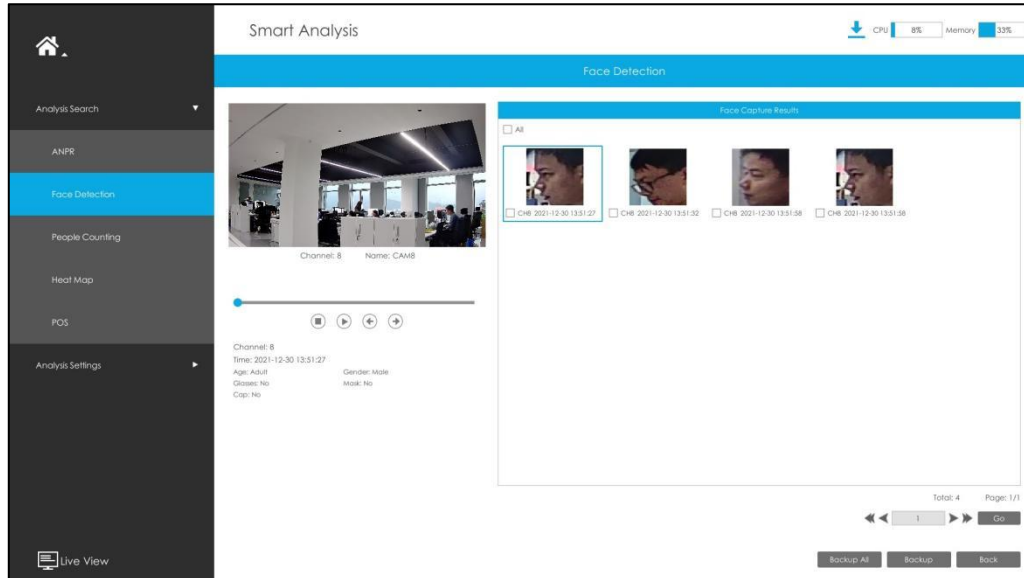


Input corresponded information and click search button  to search and you will get the results of Face Detection. Face snapshots will be shown on the results list while the complete image video and face attribute information will be shown on the left of the page. Users can filter

Face Detection results by Face Attributes including Age, Gender, Glasses, Mask and Cap.

Note:

- Make sure your camera is AI Series and version is V4x.7.0.79-r25 or above.
- Make sure your NVR model is MS-Nxxxx-xxT/H.




You can click  to play the video.

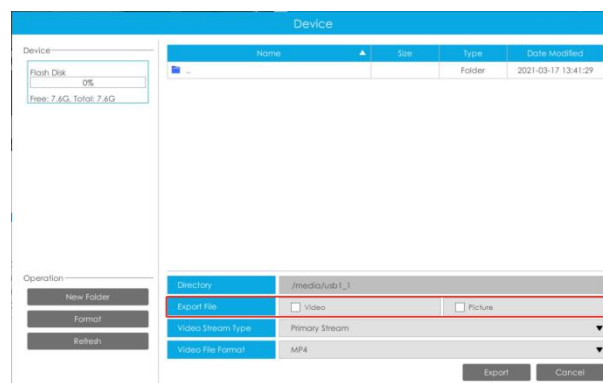


There are two methods to backup Face Detection results.

① Backup Face Detection logs you want.

Step1: Tick the face detection results 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.



② Backup all.

Step1: Click backup all  button;

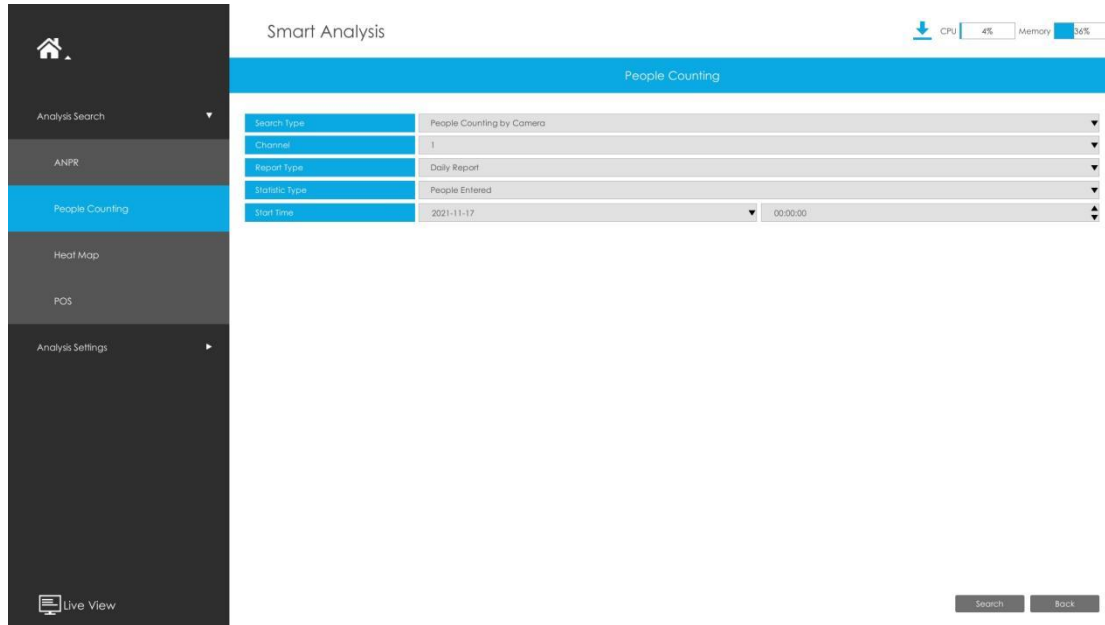
Step2: Select the export file type, video stream type and video file format, then click export

button.

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

3.5.1.3 People Counting

You can Search and Backup the results of People Counting.



Step1: Entering search conditions.

Search Type: Select the search type first, including People Counting by Camera, People Counting by Group and Regional People Counting.

① Select “People Counting by Camera”:

Channel: Select the channel.

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

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

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

② Select “People Counting by Group”:

Group: Select the groups.

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.

③ Select “Regional People Counting”:

Channel: Select the channel.

Region: Select the regions.

Length of Stay: Choose the length of stay.

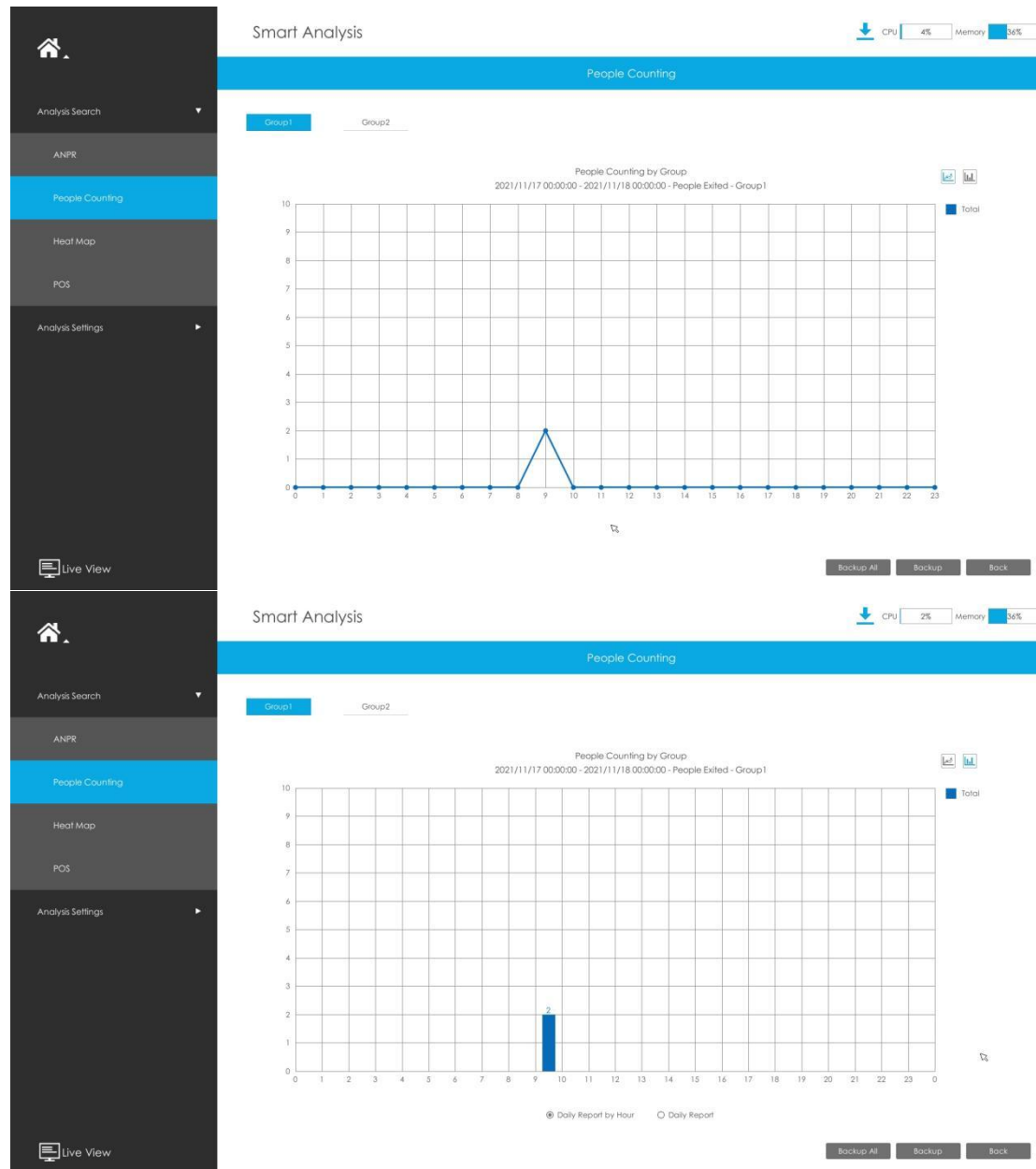
Report Type: Daily Report, Weekly Report and Monthly Report are available.

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

Step2: Click  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.



Step3: You can backup the results of People Counting. For People Counting by Group, you can backup the results in two ways:

① Backup the group you want.

Step1: Choose the group you want to backup and click backup button [Backup](#) ;


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

The screenshot shows the 'Device' interface. On the left, there is a 'Device' section with a 'Flash Disk' indicator showing 19% usage and 'Free: 6.2G, Total: 7.6G'. Below this are 'Operation' buttons: 'New Folder', 'Format', and 'Refresh'. The main area displays a table of files and folders:

Name	Size	Type	Date Modified
..		Folder	2021-02-07 02:03:47
System Volume Information		Folder	2021-02-01 11:53:52
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

Below the table, there are fields for 'Directory' (set to /media/usb1_1) and 'File Format' (set to CSV). 'Export' and 'Cancel' buttons are at the bottom right.

② Backup all.

Step1: Click backup all button  ;

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

Then you will get corresponding file.

3.5.1.4 Heat Map

You can Search and Export Heat Map results.

The screenshot shows the 'Smart Analysis' interface. At the top right, there are CPU (3%) and Memory (26%) indicators. The main area is titled 'Heat Map' and contains the following settings:

- Channel: 1
- Main Type: Space Heat Map
- Report Type: Daily Report
- Start Time: 2021-02-18 00:00:00

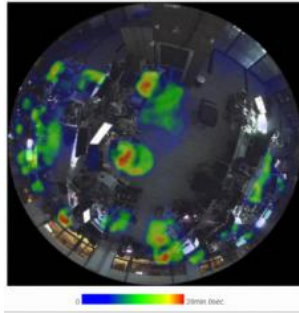
Below these settings is a large empty area labeled 'Space Heat Map'. At the bottom right, there are 'Export', 'Search', and 'Back' buttons.

Step1: Entering search conditions.

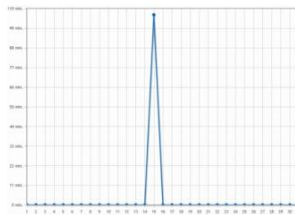
Channel: Select the channel first.

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.



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  to obtain the corresponding result and then you can click  to export it.

3.5.1.4 POS

You can Search and Backup the results of POS.

Smart Analysis CPU 7% Memory 24%

POS

POS No. All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

POS Content

Start Time 2021-10-20 00:00:00

End Time 2021-10-20 23:59:59

Search Back


Step1: Entering search conditions.

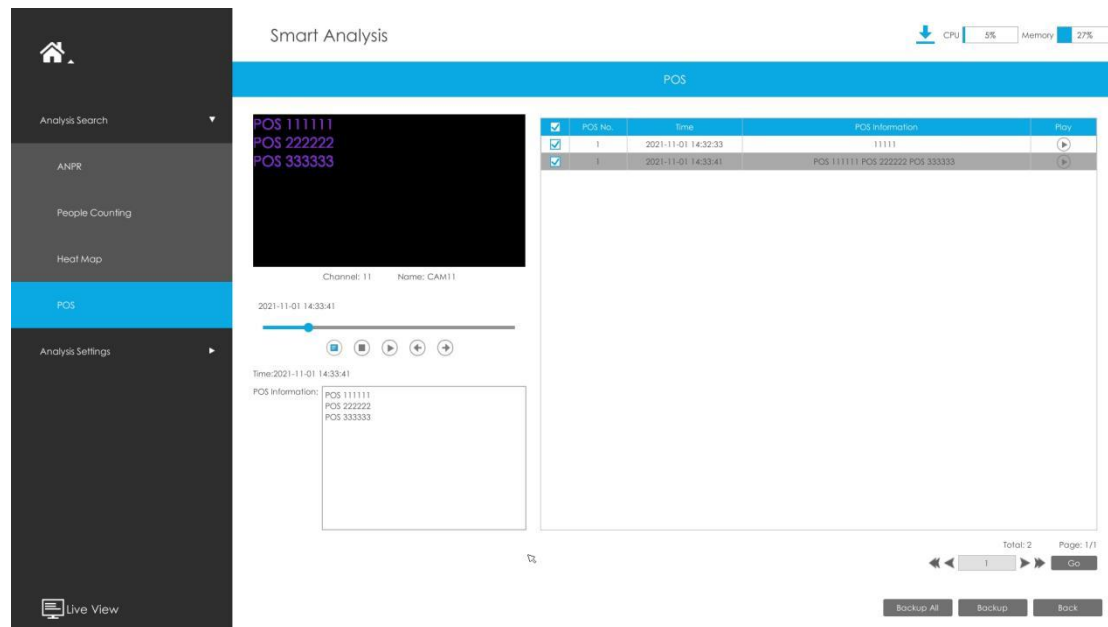
POS No.: Select the POS number first.

POS Content: Enter the POS information keywords you want to search.

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

End Time: Input the end time from which you want to search.

Step2: Click  to obtain the corresponding result.



Smart Analysis

CPU 5% Memory 27%

POS

POS No.	Time	POS Information	Play
1	2021-11-01 14:32:33	111111	
1	2021-11-01 14:33:41	POS 111111 POS 222222 POS 333333	

Channel: 11 Name: CAM11


2021-11-01 14:33:41

Time: 2021-11-01 14:33:41

POS Information:
POS 111111
POS 222222
POS 333333

Total: 2 Page: 1/1


Backup All Backup Back

You can click  to play the video.

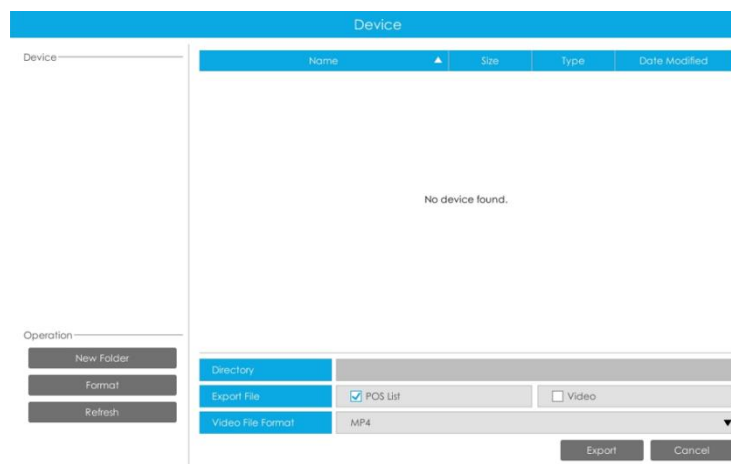


There are two methods to backup POS results.

① Backup the POS information you want.

Step1: Tick the POS information you want to backup and click backup button  ;

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



Device

Name	Size	Type	Date Modified
No device found.			

Operation

New Folder

Format

Refresh


Directory

Export File POS List Video

Video File Format MP4

Export Cancel

② Backup all.

Step1: Click backup all  button;

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

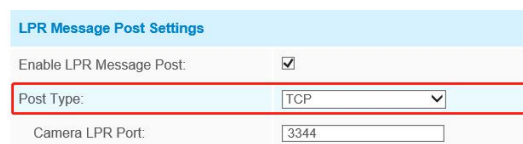
3.5.2 Analysis Settings

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

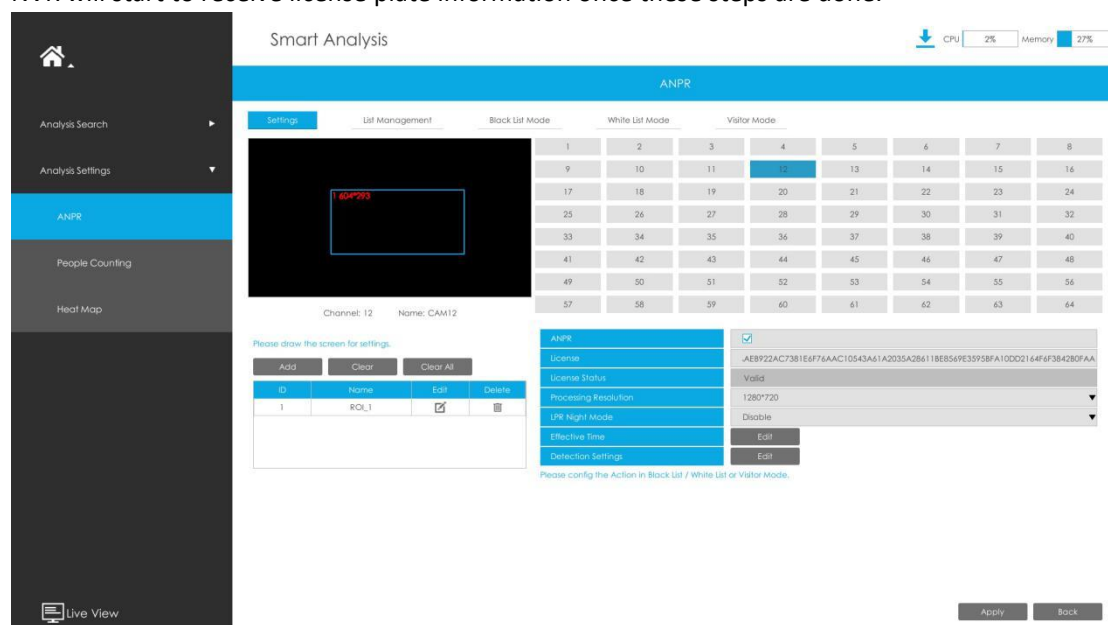
Enable LPR Message Post:

Post Type:

Camera LPR Port:

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.



Smart Analysis CPU 2% Memory 27%

ANPR

Settings | List Management | Black List Mode | White List Mode | Visitor Mode

Channel: 12 Name: CAM12

Please draw the screen for settings.

Add Clear Clear All

ID	Name	Edit	Delete
1	ROL_1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ANPR

License -AEB922AC7381E6F7AAAC10543A61A2035A2B6118E8569E35938FA10DD2164F4F384280FAA

License Status Valid

Processing Resolution 1280*720

LPR Night Mode Disable

Effective Time Edit

Detection Settings Edit

Please config the Action in Black List / White List or Visitor Mode.

Apply Back

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	<input type="range" value="4"/>	
LPR Night Mode	Enable	▼
LPR Night Mode Effective Time	Auto	▼
Day to Night Value	<input type="range" value="36"/>	36 <input type="button" value="Reset"/>
Night to Day Value	<input type="range" value="82"/>	82 <input type="button" value="Reset"/>
IR Light Sensor Value	0	
Level	<input type="range" value="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 Settings

Detection Trigger	Always ▼
Confidence Level	<input type="range" value="4"/>
Repeat Plate Checktime	0 ▲▼ <input type="text" value=""/> <input type="text" value=""/> Milliseconds ▼ (0~60000ms)
License Plate Format	<input type="button" value="Edit"/>
Features Identification	<input type="checkbox"/> All <input type="checkbox"/> Region <input type="checkbox"/> Direction <input type="checkbox"/> ROI_ID

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.

ID	License Plate Character Count	License Plate Format	Enable	Edit	Delete
0	All	*	<input checked="" type="checkbox"/>	-	-

Push Correct Character Count Results Only Enable

Format Example: AA1111*
 A - Letters Only
 1 - Numbers Only
 * - Unrestricted Type

OK Cancel Apply

① Click  to add a License Plate Format.

License Plate Format Add

License Plate Character Count

License Plate Format

OK Cancel

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:

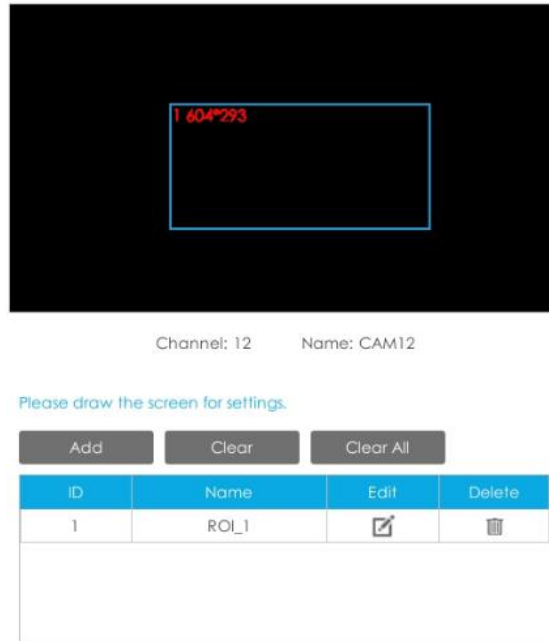
If the count of the detected license doesn't match your configuration, it will push correct character count results by completing or reducing characters automatically.

Note:

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

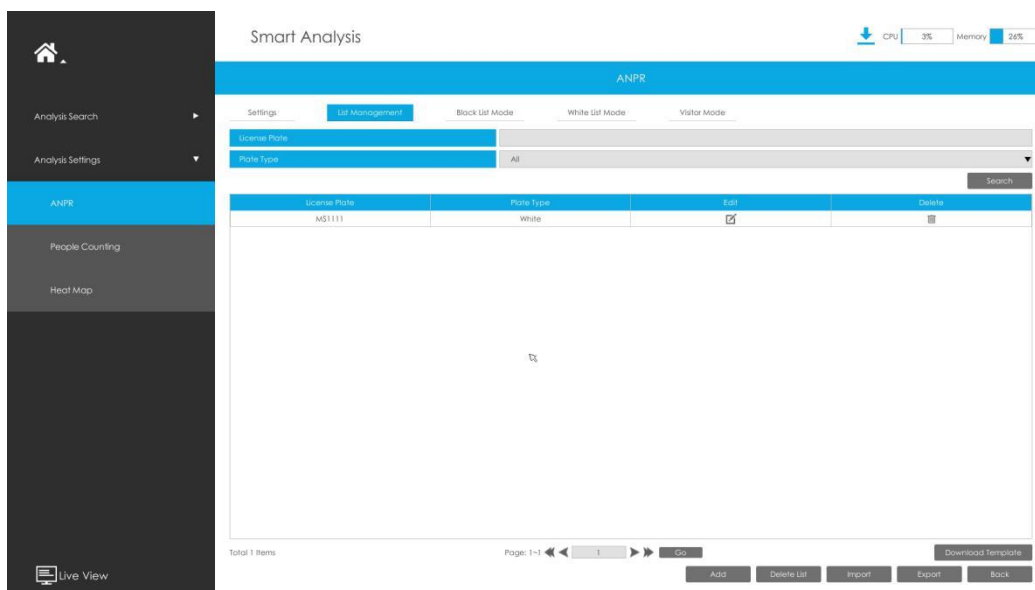
Features Identification: The selected features identification will be shown in ANPR logs interface.

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 ;

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;

Add License Plate

License Plate

Plate Type

Black

OK


Cancel

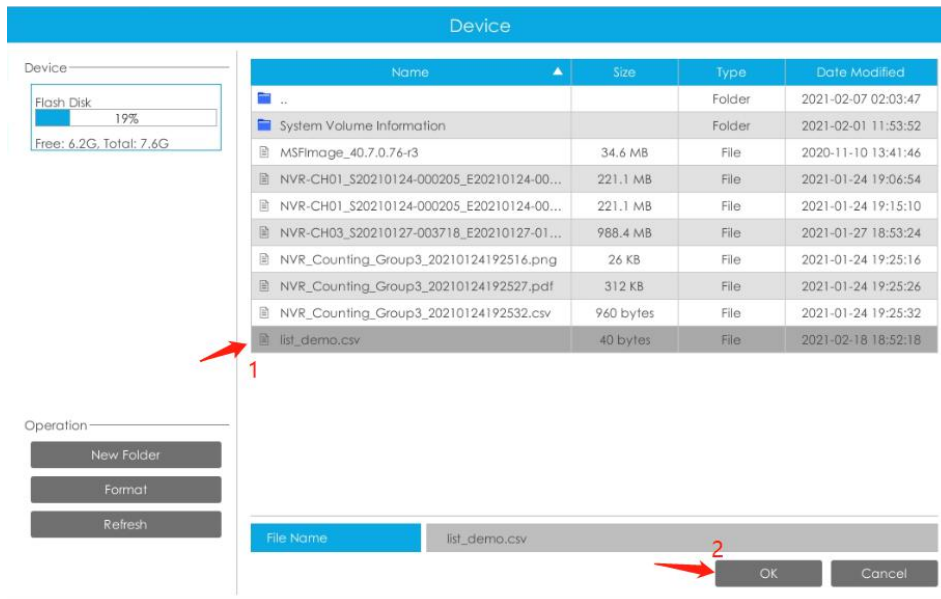
② Batch adding by importing template.

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

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

	A	B
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.



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, Event Popup, PTZ Action, Alarm Output, White LED and Trigger Channels Record.

Audible Warning: NVR will trigger an audible warning when event 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.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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.

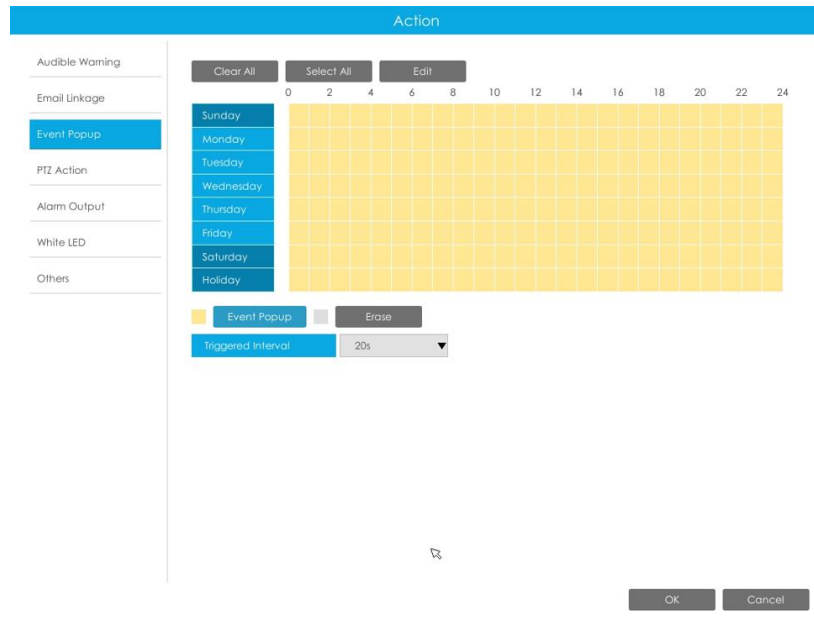
Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

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'->'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 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.



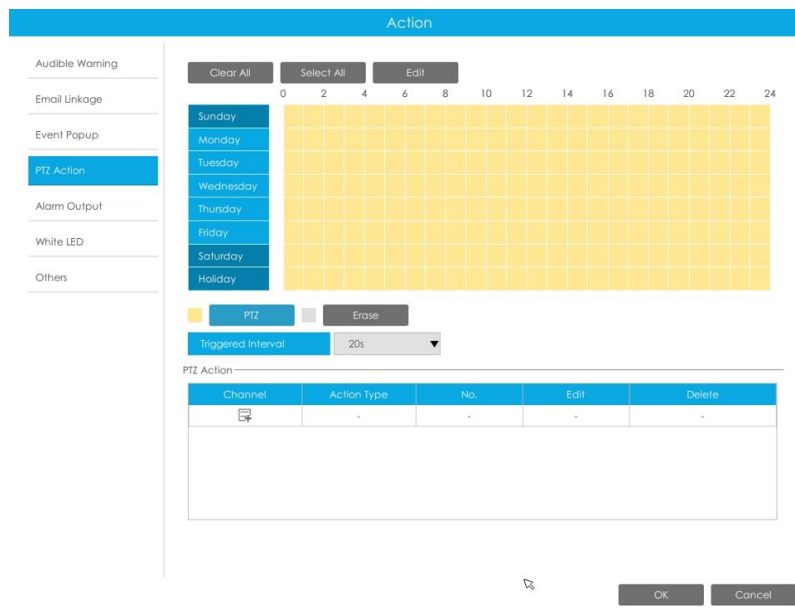
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol**.

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.

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: 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.

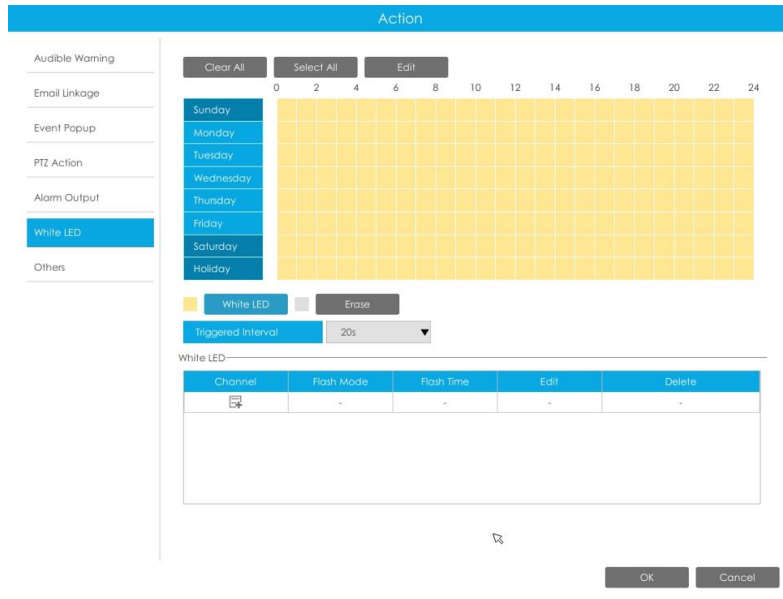
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

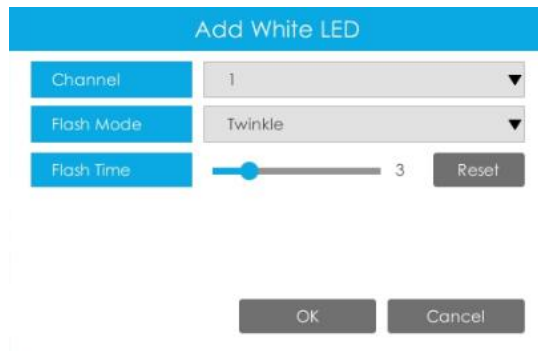
① Select the operation type, White LED and Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking **Select All** or **Clear All** to set or clear all time settings.

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 .

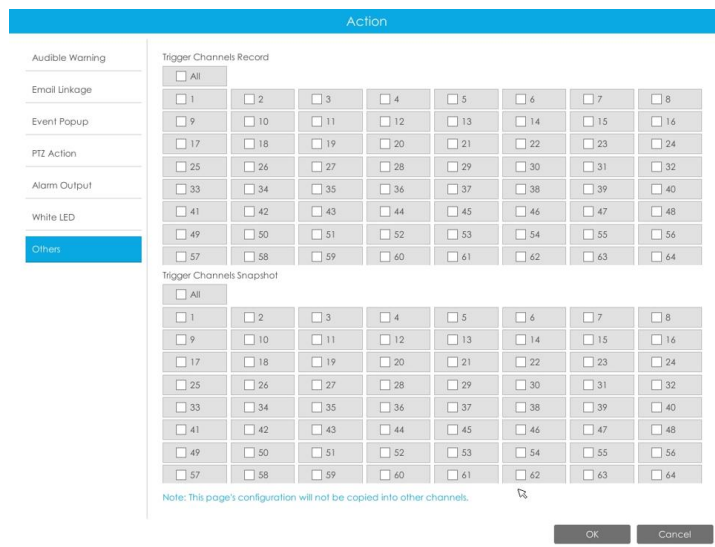


Channel: Select the channel which supports this function.

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 selected channels to record when alarm is triggered.



Note:

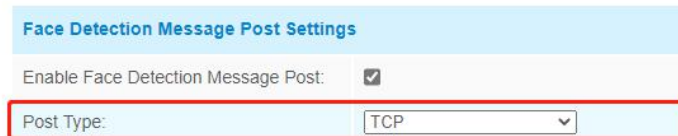
1. The list is exclusive for NVR, working with all LPR cameras you add. It won't synchronize with the list on camera side.
2. Do not forget to enable these modes, set effective time and record action for corresponded mode, ensuring that you can get real-time video when license plate is detected (Effective time and record action is enabled by default.)

3.5.2.2 Face Detection

Face Detection settings consist of Face Capture and Advanced. Here are some notes for using Face Detection function.

Note:

- ① Ensure that there is available HDD on NVR and correct record settings is made, so that you can check the record on live view.
- ② Ensure that NVR can get the face information. Please set TCP which is the default mode as Post Type. It can be set in Camera web page -> Event -> Face Detection -> Face Capture interface.



- ③ Make sure your camera is AI Series and version is V4x.7.0.79-r25 or above.
- ④ Make sure your NVR model is MS-Nxxxx-xxT/H.

Face Capture

Step 1: Select a channel and enable Face Detection function;

Step 2: Set Min. Detection Size;

Step 3: Set detection region or Shield Region, you can draw the polygon region on the screen

directly, or you can also click **Set All** or **Delete All** to select or delete the entire region.

Only the faces in the detection region will be detected, and the faces in the shield region will not be detected.

Step 4: Make configuration for face capture snapshot.

Face Capture Settings	
Capture Mode	Quality Priority
Capture Quality	20
Target Snapshot Type	Face Only
Background Snapshot	Disable
Snapshot	1

OK Cancel

Capture Mode: Quality Priority, Timeliness Priority, Customize are available.

- Quality Priority: In this mode, it will push a face screenshot of best quality when the face is detected.
- Timeliness Priority: In this mode, it will push a face screenshot in the shortest time when the face is detected.
- Customize: In this mode, you can customize some detect conditions, including Snapshot Interval, Oblique Face Angle Limit, Pitching Face Angle Limit, Side Face Angle Limit, Blur Limit.

Note: It is recommended to choose Quality Priority Mode.

Target Snapshot Type: Face Only, Upper Body, Whole Body are available.

- Face Only: Capture the screenshot of face only.
- Upper Body: Capture the screenshot of upper body.
- Whole Body: Capture the screenshot of whole body.

If you check the "Background" option, it will take another screenshot of the entire image.

Note: Whether or not the "Background" option is checked, the camera will push the entire image to the NVR side.

Snapshot Interval: 80 milliseconds, 200 milliseconds, 500 milliseconds, 1 second, 2 seconds and 4 seconds are available. This option is optional for Customize mode.

Oblique Face Angle Limit: Set Oblique Face Angle Limit to 1~180. The larger the value, the larger angle the oblique face that can be detected. This option is optional for Customize mode.

Pitching Face Angle Limit: Set Pitching Face Angle Limit to 1~180. The larger the value, the larger angle the pitching face that can be detected. This option is optional for Customize mode.

Side Face Angle Limit: Set Side Face Angle Limit to 1~180. The larger the value, the larger angle the side face that can be detected. This option is optional for Customize mode.

Blur Limit: Set Blur Limit to 1~10. The larger the value, the more blurred the face can be detected. This option is optional for Customize mode.

Snapshot: Set the number of screenshot to 1~5. It will take screenshot based on the snapshot interval you set.

Step 5: Set Face Detection function effective time;

Step 6: Set action including Audible Warning, Email Linkage, Event Popup, PTZ Action, Alarm Output, White LED and Trigger Channels Record.

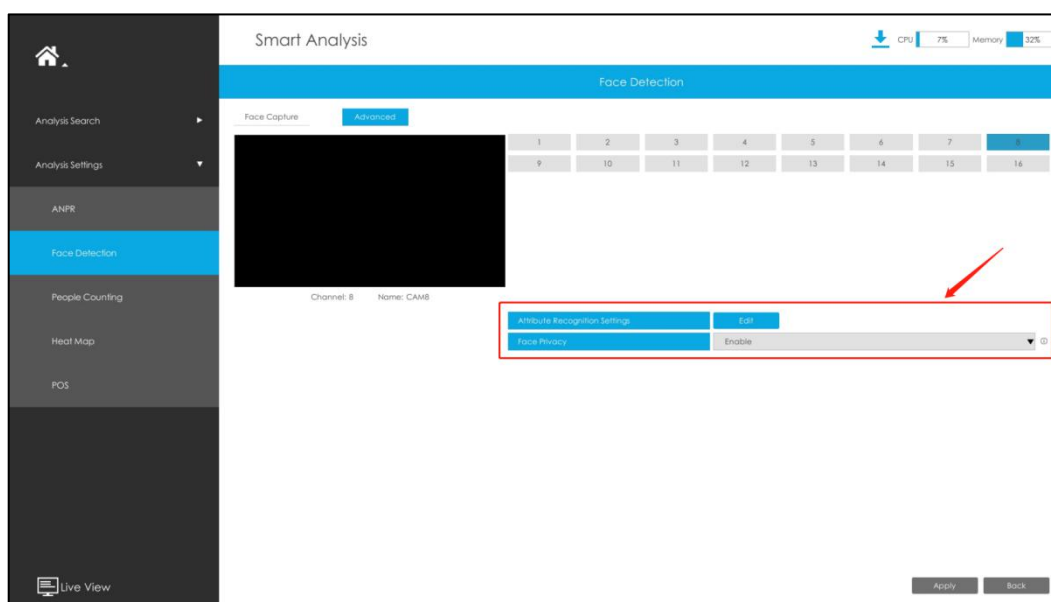
For detailed settings of these actions, please refer to **3.5.2.1 ANPR**.

Note: The following functions cannot be enabled at the same time as Face Detection.

- VCA
- People Counting&Regional People Counting
- Corridor Mode
- Auto Tracking

Advanced

Here you can enable Attribute Recognition and configure the attributes you want to detect. Or enable the Face Privacy Mode for Face Detection.



Attribute Recognition Settings: The attributes include Age, Gender, Glasses, Mask and Cap. Users can choose the attributes as needed.

Face Privacy: When Face Privacy Mode is enabled, the detected faces in the face detection area will be mosaic automatically.

Note:

- ① Attribute Recognition function cannot be used together with Face Privacy function
- ② To enable Face Privacy Mode, the video parameters will be changed to the recommended configuration as shown below:

- H.265 video codec (all streams)
- Primary Stream: 1080P@25fps
- Secondary Stream: 704*576@25fps
- Tertiary Stream: Disabled

3.5.2.3 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 4% Memory 24%

People Counting

People Counting Settings | Occupancy Live View Settings | Regional People Counting Settings | Report Auto Backup Settings

Channel: 1 Name: CAM1

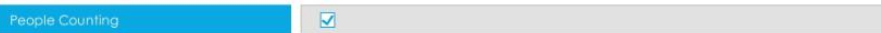
Minimum Size (x1~320x240) 3 x 3
Maximum Size (x1~320x240) 320 x 240

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

People Counting
 Show Counting OSD
 Text Position: Top-Left
 Line Edit: Finish Clear
 Object Size Limits: Edit
 Clear Count: Clear


Apply Back

Step 1. Select channel and enable People Counting.



Step 2. Set counting OSD.

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


Besides, you can clear count by clicking .

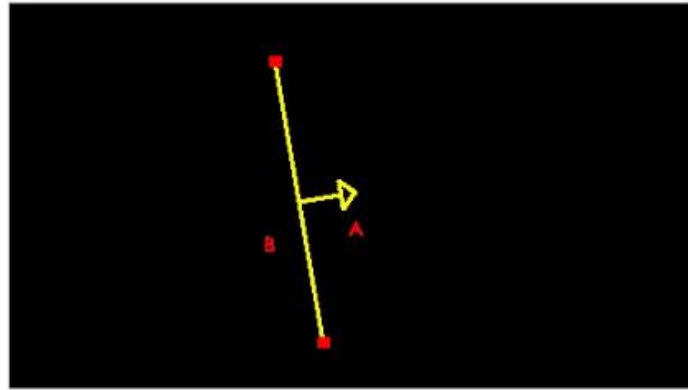


Note:

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

Step 3. Draw detection line.

And you can edit the line by clicking  button.



Channel: 1

Name: CAM1

Step 4. Set Minimum Size and Maximum Size.

<input type="radio"/> Minimum Size(1x1~320x240)	3	X	3
<input type="radio"/> 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.

Note:

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

Step 1. Set Group.


Group Settings: Click  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.

Step 2. Select a Group from the added Groups.

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.

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.

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 warning.

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.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

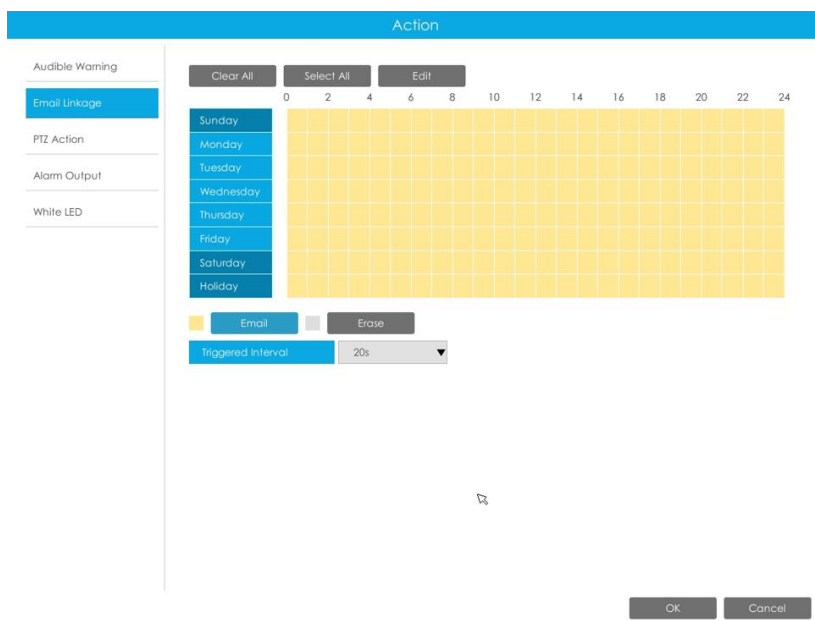
Email Linkage: NVR will send an email to the address you set before.

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**.

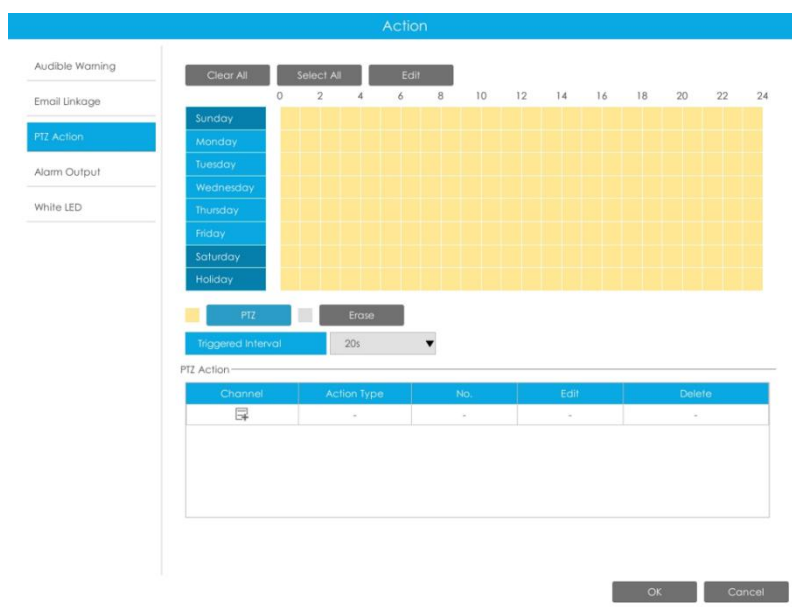
User can set effective schedule as following two ways:

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.

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  .



The 'Add PTZ Action' dialog box contains three input fields: 'Channel' with a dropdown menu showing '1', 'Action Type' with a dropdown menu showing 'Preset', and 'No.' with a dropdown menu showing '1'. At the bottom, there are 'OK' and 'Cancel' buttons.

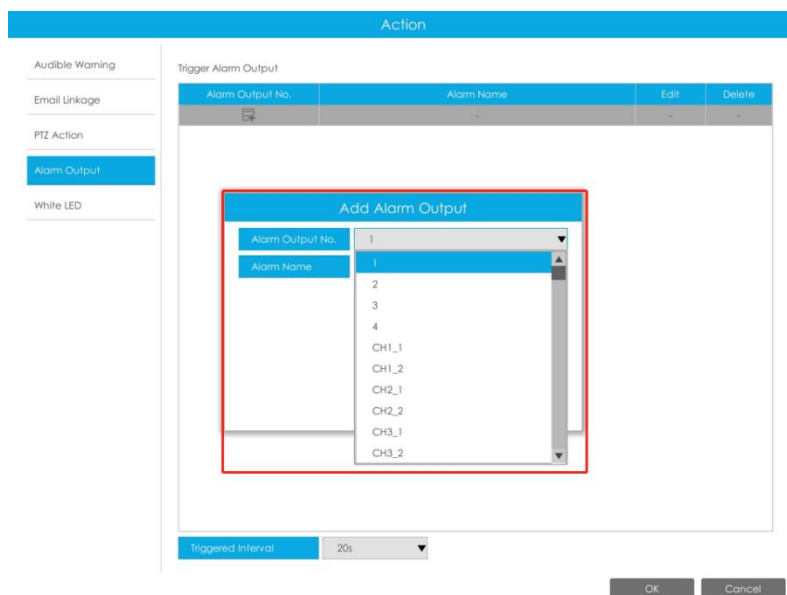
Channel: Select the channel which supports this function.

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.



The 'Action' configuration interface shows a sidebar with options: Audible Warning, Email Linkage, PTZ Action, Alarm Output (selected), and White LED. The main area is titled 'Trigger Alarm Output' and contains a table with columns 'Alarm Output No.', 'Alarm Name', 'Edit', and 'Delete'. Below the table is an 'Add Alarm Output' dialog box with a dropdown for 'Alarm Output No.' (set to 1) and a list for 'Alarm Name' containing options 1, 2, 3, 4, CH1_1, CH1_2, CH2_1, CH2_2, CH3_1, and CH3_2. At the bottom, there is a 'Triggered interval' dropdown set to '20s' and 'OK' and 'Cancel' buttons.

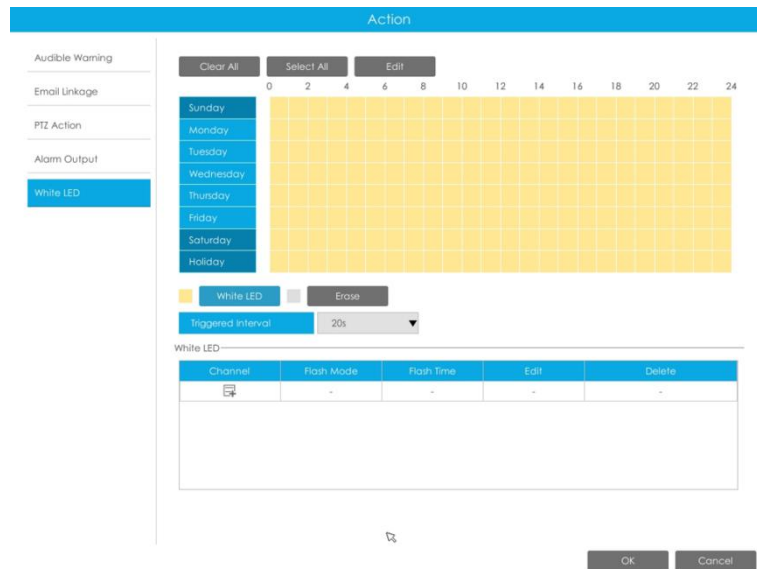
White LED: Trigger White LED flashing when alarm is triggered.

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.

Regional People Counting Settings

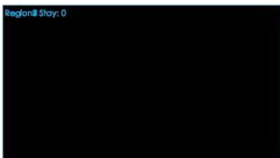
When enabling Regional People Counting, users can check the real-time number of people and the time of each person's stay in the detection region.

Smart Analysis CPU 6% Memory 35%

People Counting

People Counting Settings Occupancy Live View Settings **Regional People Counting Settings** Report Auto Backup Settings

Region# Stay: 0



Channel: 1 Name: CAM1

Minimum Size(1x1~320x240) 3 X 3

Maximum Size(1x1~320x240) 320 X 240

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

Region No.

Regional People Counting Edit

Region Edit

Object Size Limits Edit

Sensitivity

Max. Stay 1~60

Min. Stay 1~60

Max. Length of Stay 1~1800s

Action Edit

Please configure Regional People Counting schedule on camera side.

Apply Back

Step 1. Select channel and the region number to configure, then enable Regional People Counting.

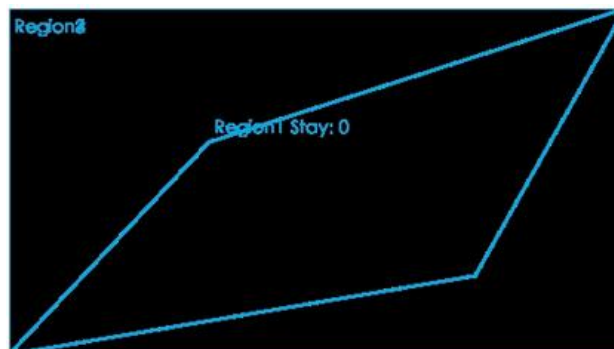
Region No.

Regional People Counting

Note:

Ensure that your camera model is MS-CXXXX-XXC and camera version is 4X.7.0.78 or above.

Step 2. Set detection region.



Step 3. Set Minimum Size and Maximum Size.

Minimum Size(1x1~320x240) 3 X 3

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 Regional 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 Regional People Counting will take effect.

Step 4. Set 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.

Sensitivity

5

Step 5. Set alarm trigger. Alarm will be triggered when the threshold exceeds the certain value.

Max. Stay	<input type="checkbox"/> 60	1~60
Min. Stay	<input type="checkbox"/> 1	1~60
Max. Length of Stay	<input type="checkbox"/> 30	1~1800s

Step 6. Set alarm 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 warning when event is detected.

The user can set effective schedule as following two ways:

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

④ Click **Edit** to edit record effective time manually.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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:

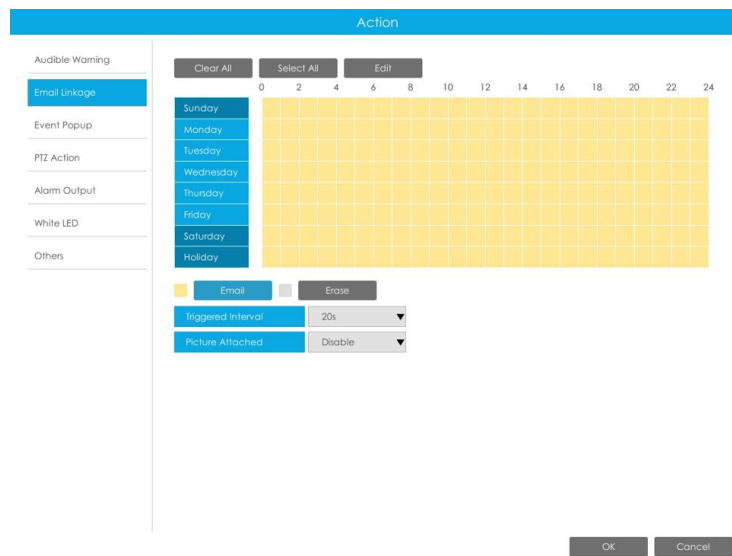
③ Select the operation type, Email and Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking **Select All** or **Clear All** to set or clear all time settings.

④ Click **Edit** 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.

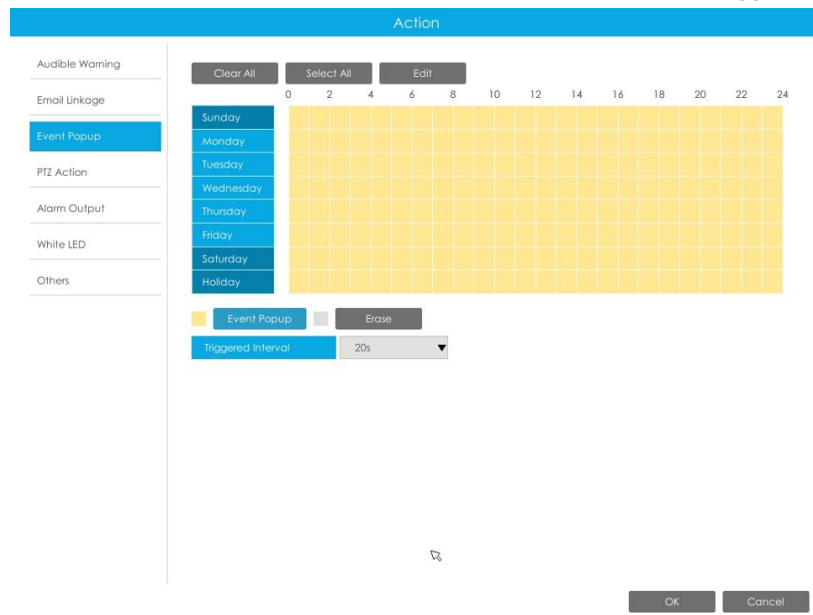


Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And you can set display duration time of all triggered channel in 'Settings'->'General'->'Device'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

③ 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.

④ 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:

③ 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.

④ Click **Edit** to edit record effective time manually.

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

The screenshot shows the 'Action' configuration page. On the left is a sidebar menu with 'PTZ Action' selected. The main area contains a calendar grid for PTZ Action settings, with a 'Triggered Interval' dropdown set to 20s. Below the calendar is a table for PTZ Action entries.

Channel	Action Type	No.	Edit	Delete
	-	-	-	-

And you can add PTZ Action by clicking .

The 'Add PTZ Action' dialog box shows the following configuration:

- Channel: 1
- Action Type: Preset
- No.: 1

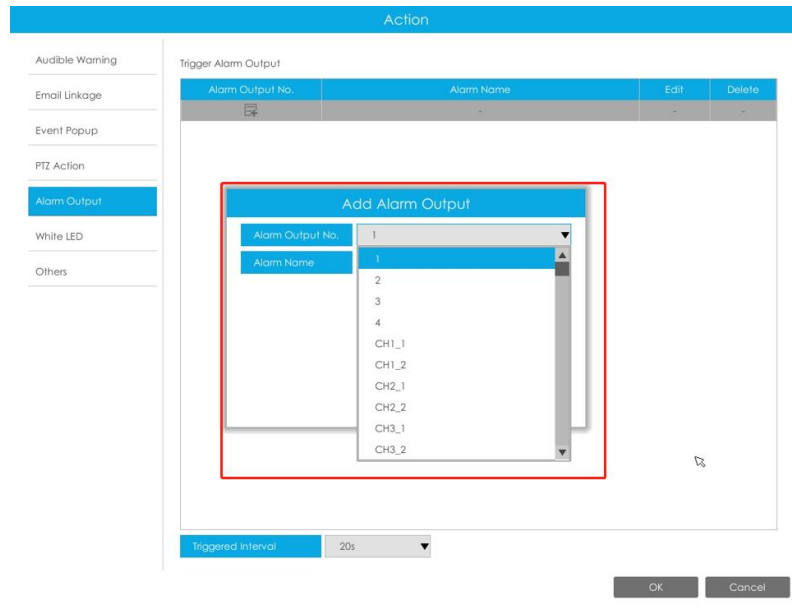
Channel: Select the channel which supports this function.

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.



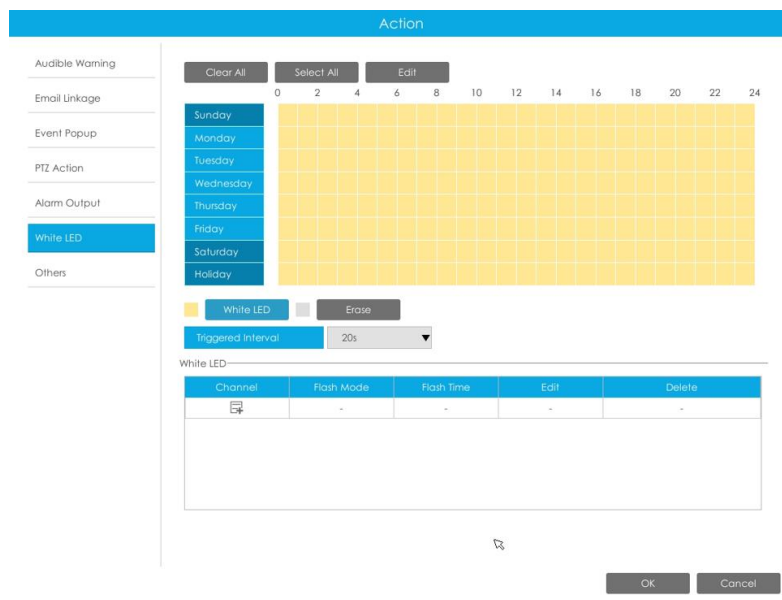
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

③ 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.

④ 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 .

Step 1: Select Report Type including People Counting by Camera, People Counting by Group and Regional People Counting.

Step 2: Enable Report Auto Backup, and then select the channels/Group.

Step 3: Set the day and the time.

Day	Everyday
Time	16:41:00

Step 4: Select Backup Time Range including Last Day and Export All.

Step 5: Users can export the reports to the external device or Email.

3.5.2.4 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.

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.

3.5.2.4 POS

You can configure some basic POS information here. When the communication between the POS machine and NVR is available and POS function is enabled on NVR side, NVR can obtain the information transmitted by the POS machine and display the POS information on the configured channel Live View.

Field	Value	Action
POS No.	1	▼
POS	Enable	▼
POS Name	POS 1	▼
POS Protocol	General	▼
Connection Mode	TCP	▼
Connection Mode Settings	Edit	Edit
Live View Display	Enable	▼
Display Channel	3	▼
Display Region	Reset	Reset
Character Encoding	Unicode(UTF-8)	▼
Font Size	Large	▼
Font Color	Cyan	▼
Overlay Mode	Page	▼
Display Time	5	5-3600s
Timeout	5	5-3600s
Privacy Settings	Edit	Edit
Effective Time	Edit	Edit
Action	Edit	Edit

Step 1: Select the POS number and enable POS function;

POS Name: You can customize the POS name as needed

POS Protocol: Display the POS communication protocol. The default is General

Connection Mode: Select the connection mode with the POS machine, TCP or UDP is optional

Connection Mode Settings: Set the IP address and POS Port of the POS machine

Step 2: You can enable the Live View Display. When enabled, POS information will be displayed in the Live View and the preview box of each configuration page;

Display Channel: Select the channel on which POS information will be displayed

Note: The information of different POS machines cannot be displayed in the same channel to prevent information overlap.

Display Region: Draw the area in the channel where POS information is displayed

Character Encoding: The encoding format of the information transmitted by the POS machine. The default is Unicode (UTF-8)

Font Size: Set the font size of POS information

Font Color: Set the font color of POS information

Overlay Mode: Set the overlay mode when the channel display area is full in the Live View. Page or Roll is optional

Display Time: Set the display time of single POS information in the Live View

Timeout: Set the expiration time of POS information, and multiple messages sent within the set time will be merged into the same message again



Privacy Settings: Some information can be set to * as needed to protect privacy

Step 3: Set POS function effective time;

Step 4: Alarm is triggered when NVR obtains the information transmitted by the POS machine. You can set alarm action including Audible Warning, Email Linkage, PTZ Action, Alarm Output, White LED and Others.

Audible Warning: NVR will trigger an audible warning when event is detected.

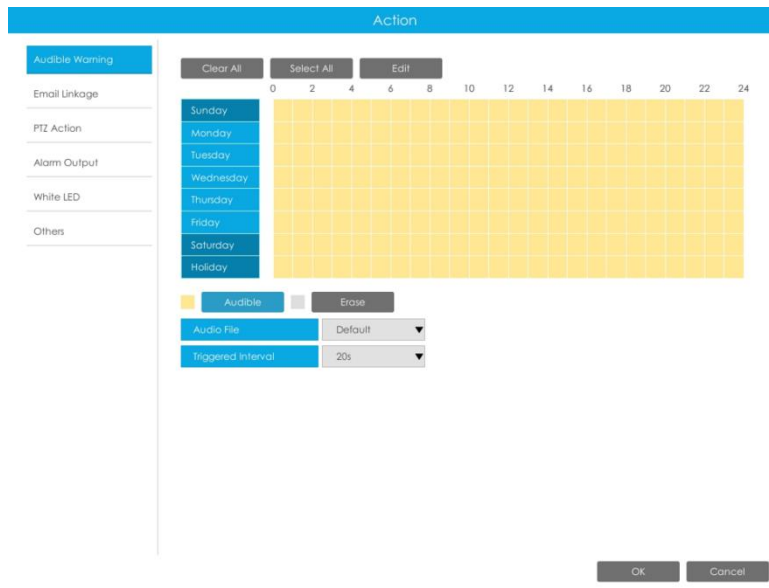
The user can set effective schedule as following two ways:

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  or  to set or clear all time settings.

② Click  to edit record effective time manually.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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



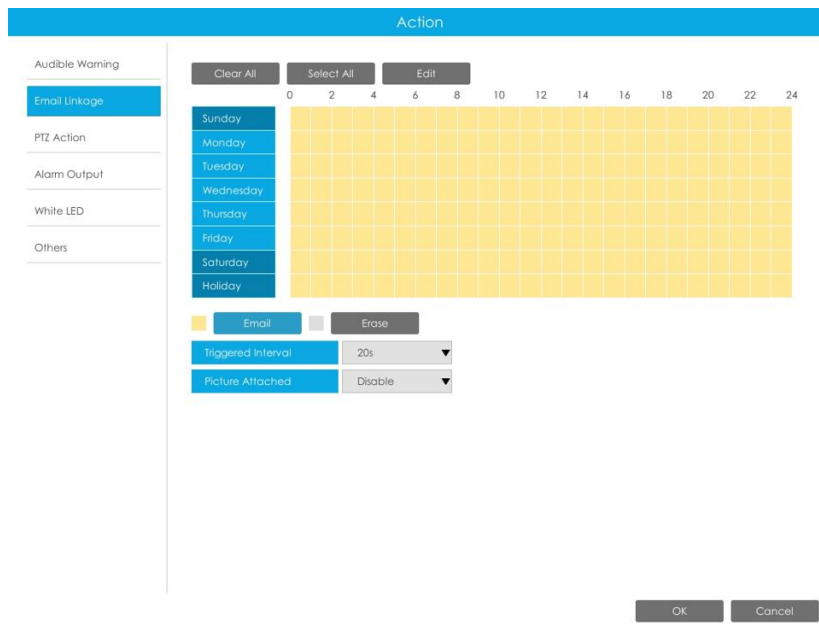
Email Linkage: NVR will send an email to the address you set before.

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.

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 .

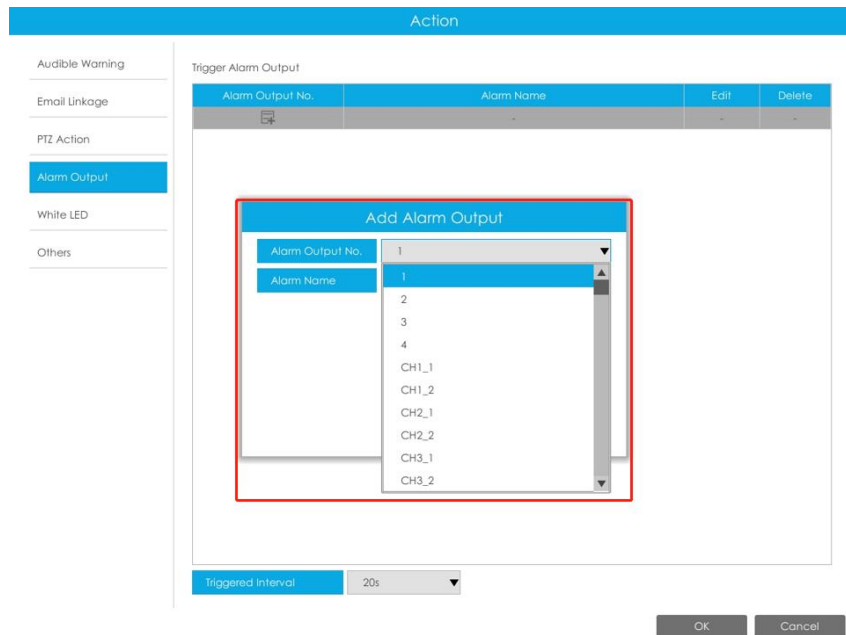
Channel: Select the channel which supports this function.

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.



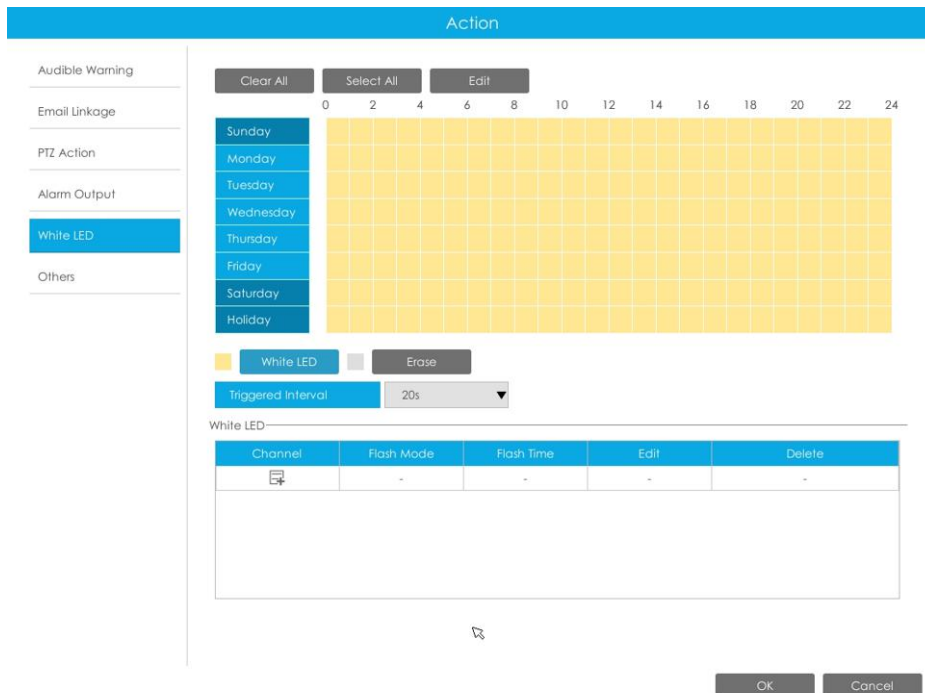
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, 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 .

Add White LED

Channel

1

Flash Mode

Twinkle

Flash Time

3

Reset

OK

Cancel

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.

Action

Audible Warning

Email Linkage

PTZ Action

Alarm Output

White LED

Others

Trigger Channels Record

All

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

Trigger Channels Snapshot

All

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

OK

Cancel

Note:

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

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.

3.6.1 Camera Management

Camera Settings

CPU 1% Memory 27%

Camera Management

Channel: 1 Name: CAM1

Channel: 6
Channel Name: CAM6
Protocol: ONVIF
IP Address:
Port: 80
Transport Protocol: Auto
User Name: admin
Password:
Time Setting: Sync Time With NVR

Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
1	CAM1				192.168.14.102	-	8081	ONVIF	1CC3162109F1	40.7.0.78	MS-C2962-FPB
2	CAM2				192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-E8
3	CAM3				192.168.14.104	-	8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2942-B
4	CAM4				192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-P8
5	CAM5				192.168.7.234	-	80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFC

Free Receiving Bandwidth: 129.31Mbps

Edit Authentication Delete Refresh Back

Step 1. Add camera.

Method 1. Add camera through Device Search interface. 'Camera' → 'Device Search'.

Camera Settings

CPU 11% Memory 99%

Device Search

Protocol: All Select NIC: All IP Range: 0.0.0.0 - 255.255.255.255 Search

No	IP Address	IP Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
1	192.168.32.2		Active	80	MSSP	LAN	1CC3162166FA	41.7.0.77-a3	MS-C4463-PB	Milesight
2	192.168.20.3		Active	80	MSSP	LAN	1CC316243374	41.7.0.73-7	MS-C5373-PB	Milesight
3	192.168.20.4		Active	80	MSSP	LAN	1CC31621A468	41.7.0.70	MS-C2962-FPB	Milesight
4	192.168.32.5		Active	80	MSSP	LAN	1CC3162166F3	41.7.0.76-3	MS-C4463-PB	Milesight
5	192.168.32.6		Active	80	MSSP	LAN	1CC316216707	41.7.0.77-vc3-ncp	MS-C4463-PB	Milesight
6	192.168.32.7		Active	80	MSSP	LAN	1CC31621670A	41.7.0.76	MS-C4463-PB	Milesight
7	192.168.32.8		Active	80	MSSP	LAN	1CC316216703	41.7.0.76	MS-C4463-PB	Milesight
8	192.168.32.9		Active	80	MSSP	LAN	1CC3162166F2	41.7.1.76	OEM-C3762	IPCAM
9	192.168.32.10		Active	80	MSSP	LAN	1CC31621658C	41.7.0.77-a2	MS-C4463-PB	Milesight
10	192.168.31.11		Active	80	MSSP	LAN	1CC31621657D	41.7.0.70	MS-C4463-PB	Milesight
11	192.168.32.11		Active	80	MSSP	LAN	1CC316216619	41.7.0.76	MS-C4463-PB	Milesight
12	192.168.31.12		Active	80	MSSP	LAN	1CC3162104CF	40.7.0.70	MS-C2963-PB	Milesight
13	192.168.32.13		Active	80	MSSP	LAN	1CC31621671E	41.7.0.76	MS-C4463-PB	Milesight
14	192.168.10.13		Active	80	MSSP	LAN	1CC3161228A3	31.7.0.75-a7	MS-C2941-X30TPA	Milesight
15	192.168.31.13		Active	80	MSSP	LAN	1CC316210565	40.7.0.70	MS-C4463-PB	Milesight
16	192.168.32.13		Active	80	MSSP	LAN	1CC316216708	41.7.0.76	MS-C4463-PB	Milesight
17	192.168.32.14		Active	80	MSSP	LAN	1CC316216705	41.7.0.76	MS-C4463-PB	Milesight
18	192.168.31.15		Active	80	MSSP	LAN	1CC316210725	40.7.0.70	MS-C2963-PB	Milesight
19	192.168.32.15		Active	80	MSSP	LAN	1CC316216706	41.7.0.76	MS-C4463-PB	Milesight
20	192.168.10.16		Active	80	MSSP	LAN	1CC3161228F7	31.7.0.75	MS-C5241-X36PA	Milesight
21	192.168.31.16		Active	80	MSSP	LAN	1CC3162106F0	40.7.0.70	MS-C2963-PB	Milesight
22	192.168.32.16		Active	80	MSSP	LAN	1CC316216704	41.7.0.76	MS-C4463-PB	Milesight
23	192.168.10.17		Active	80	MSSP	LAN	1CC3161129CB	31.7.0.75	MS-C8164-FIPA	Milesight
24	192.168.31.17		Active	80	MSSP	LAN	1CC3162165AC	41.7.0.71	MS-C4463-PB	Milesight
25	192.168.32.17		Active	80	MSSP	LAN	1CC316216709	41.7.0.76	MS-C4463-PB	Milesight
26	192.168.31.18		Active	80	MSSP	LAN	1CC316210558	40.7.0.70	MS-C2963-PB	Milesight

Activate IP Edit Add Back

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

Protocol: All Select NIC: All IP Range: 0.0.0.0 - 255.255.255.255 Search

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

Protocol	All	Select NC	All	IP Range	0.0.0.0	--	255.255.255.255	Search			
No.	IP Address	IP Edit	Status	Port	Protocol	NC	MAC	Firmware Version	Model	Vendor	
<input type="checkbox"/>	1	192.168.32.2	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC3162166FA	41.7.0.77-o3	MS-C4463-PB	Milesight
<input type="checkbox"/>	2	192.168.20.3	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316263374	41.7.0.73-l7	MS-C5373-PB	Milesight
<input type="checkbox"/>	3	192.168.20.4	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC31621A468	41.7.0.70	MS-C2962-FIPB	Milesight
<input type="checkbox"/>	4	192.168.32.5	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC3162166F3	41.7.0.76-i3	MS-C4463-PB	Milesight
<input type="checkbox"/>	5	192.168.32.6	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316216707	41.7.0.77-vco-lcp	MS-C4463-PB	Milesight
<input type="checkbox"/>	6	192.168.32.7	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC31621670A	41.7.0.76	MS-C4463-PB	Milesight
<input type="checkbox"/>	7	192.168.32.8	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316216703	41.7.0.76	MS-C4463-PB	Milesight
<input type="checkbox"/>	8	192.168.32.9	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC3162166F2	41.7.1.76	OEM-C3762	IPCAM
<input type="checkbox"/>	9	192.168.32.10	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC31621658C	41.7.0.77-o2	MS-C4463-PB	Milesight
<input type="checkbox"/>	10	192.168.31.11	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC31621657D	41.7.0.70	MS-C4463-PB	Milesight
<input type="checkbox"/>	11	192.168.32.11	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316216619	41.7.0.76	MS-C4463-PB	Milesight
<input type="checkbox"/>	12	192.168.31.12	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC3162106CF	40.7.0.70	MS-C2963-PB	Milesight
<input type="checkbox"/>	13	192.168.32.12	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC31621671E	41.7.0.76	MS-C4463-PB	Milesight

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

Add

MAC	1CC316282E16
Channel	6 ▼
Channel Name	CAM6
Protocol	MSSP ▼
IP Address	192.168.10.18
Port	80
Transport Protocol	Auto ▼
User Name	admin
Password	
Time Setting	<input type="checkbox"/> Sync Time With NVR

OK
Cancel

4. Check 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	admin	
Password	*****	
Transport Protocol	Auto ▼	

IP Address	MAC	Result
192.168.14.102	1CC316210991	
192.168.14.105	1CC316220D8D	

OK
Cancel

Method 2. Add camera through camera management interface. 'Camera' → 'Camera

Management'

Camera Management

Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
1	CAM1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	●	192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FFB
2	CAM2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	●	192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
3	CAM3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	●	192.168.14.104	-	8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2962-B
4	CAM4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	●	192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-FB
5	CAM5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	●	192.168.7.234	-	80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFPC

Free Receiving Bandwidth: 129.31Mbps

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	<input checked="" type="checkbox"/> Sync Time With NVR

Test Add

- **RTSP:** You can add any IP cameras with RTSP protocol streams (Port: 554). It needs you to input complete resource path of the IP camera to add it. Take Milesight device for example, the resource path of main stream is "rtsp://IP:port/main" and secondary stream is "rtsp://IP:port/sub". 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	<input checked="" type="checkbox"/> 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
User Name	admin
Password	*****
Time Setting	<input checked="" type="checkbox"/> Sync Time With NVR

Test Add

- **Milesight DDNS:** You can add Milesight cameras via Milesight DDNS. After enabling DDNS on Milesight camera and selecting “ddns.milesight.com” as provider, you can add the camera via the Domain Address “ddns.milesight.com/MAC address”.

Channel	2
Channel Name	CAM2
Protocol	Milesight DDNS
Domain Address	ddns.milesight.com/24F03C
Transport Protocol	Auto
User Name	admin
Password	*****
Time Setting	<input type="checkbox"/> 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 103R, 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.

Camera Channel Add

Channel ID

All



1 2 3 4
















OK Cancel


2. Only Fisheye camera has Channel ID.

Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
1	CAM1				192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
2	CAM2				192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
3	CAM3				192.168.14.104	-	8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2942-B
4	CAM4				192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
5	CAM5				192.168.7.234	-	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.


Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
1	CAM1				192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
2	CAM2				192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
3	CAM3				192.168.14.104	-	8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2942-B
4	CAM4				192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
5	CAM5				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.

Channel	Channel Name	Edit	Delete	Disconnected	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
1	CAM1				192.168.14.102	-	8081	ONVIF			

Step 3. Configure camera.

Configure one camera

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

Camera Edit

Settings
Parameters

Settings

Channel: 1

Channel Name: CAM1

Protocol: ONVIF

IP Address: 192.168.9.189

Port: 80

Transport Protocol: UDP

User Name: admin

Password: *****

Time Setting: Sync Time With NVR

OK Cancel Apply

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.

Camera Edit

Settings
Parameters

Record Stream Type: General

Video Codec: General

Frame Size: Event

Max Frame Rate: 20

Bit Rate: 8192

Bitrate Control: CBR

I-frame Interval: 40

Smart Stream: Off

Audio: Enable

Secondary Stream

Secondary Stream: Enable

Video Codec: H.264

Frame Size: 640*480

Max Frame Rate: 25

Bit Rate: 512

Bitrate Control: CBR

I-frame Interval: 50

Smart Stream: Off

OK Cancel Apply

Note:

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	Parameters
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	IPI03R
Channel ID	1
User Name	admin
Password	*****
Time Setting	<input type="checkbox"/> Sync Time With NVR

Buttons: OK, Cancel, Apply


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

Batch configuring camera

Click [Batch Settings](#), select multiple channels and set parameters of cameras.

Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
1	CAM1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	●	192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FFB
2	CAM2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	●	192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
3	CAM3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	●	192.168.14.104	-	8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2942-B
4	CAM4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	●	192.168.14.105	1	8085	ONVIF	1CC31622008D	43.7.0.78	MS-C9674-PB
5	CAM5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	●	192.168.7.234	-	80	ONVIF	1CC316287C75	45.7.0.78	MS-C2844-RFPC

Step 4. Delete camera.

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

[Delete](#)

to delete.

<input type="checkbox"/>	Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
<input checked="" type="checkbox"/>	1	CAM1				192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
<input type="checkbox"/>	2	CAM2				192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
<input type="checkbox"/>	3	CAM3				192.168.14.104	-	8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2942-B
<input type="checkbox"/>	4	CAM4				192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
<input type="checkbox"/>	5	CAM5				192.168.7.234	-	80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFPC

Free Receiving Bandwidth: 129.31Mbps

[Edit Authentication](#) [Delete](#) [Refresh](#) [Back](#)

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 [Edit Authentication](#) to realize authentication (you can also multi-select the devices and then click this button). Then the camera will be changed into the same network segment with internal NIC IPv4 address and will be successfully connected. 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.

Edit Authentication

User Name


Password

Note: Edit authentication for selected cameras.


OK

Cancel

3.6.2 Device Search

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

Device Search											
Protocol	All	Select NIC	All	IP Range	192.168.7 .96	255.255.255.255	Search				
No.	IP Address	IP Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor	
<input type="checkbox"/>	1	192.168.7.100	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC3162000EF	41.7.0.72-a5	MS-C2862-FPB	Milesight
<input type="checkbox"/>	2	192.168.7.104	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316210022	40.7.0.69-r11	MS-C2962-FPB	Milesight
<input type="checkbox"/>	3	192.168.7.114	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC3162409D2	40.7.0.72	MS-C2964-FPB	Milesight
<input type="checkbox"/>	4	192.168.7.124	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316230139	41.7.0.72-06	MS-C2962-FPB	Milesight
<input type="checkbox"/>	5	192.168.7.201	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC31622196F	43.7.0.72-fb-autotrack-a2	MS-C9674-FB	Milesight
<input type="checkbox"/>	6	192.168.7.202	<input checked="" type="checkbox"/>	Active	4200	MSSP	LAN	1CC316220108	42.7.0.47-r1	MS-C9674-FB	Milesight
<input type="checkbox"/>	7	192.168.7.212	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316210110	40.7.0.71-r15	MS-C2972-FPB	Milesight
<input type="checkbox"/>	8	192.168.7.214	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC3162132FD	40.7.0.71-r15	MS-C2973-FPB	Milesight
<input type="checkbox"/>	9	192.168.7.215	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316212E80	41.7.0.71-r15	MS-C3762-FPB	Milesight
<input type="checkbox"/>	10	192.168.7.216	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC3162306CD	40.7.0.71-r15	MS-C2961-EPB	Milesight
<input type="checkbox"/>	11	192.168.7.223	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC31621C384	41.7.0.72-a10	MS-C4461-EB	Milesight
<input type="checkbox"/>	12	192.168.7.224	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316201043	43.7.0.72-lFR2	MS-C8262-FRFB	Milesight
<input type="checkbox"/>	13	192.168.7.226	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316239791	40.7.0.72-a3	MS-C2961-REPFB	Milesight
<input type="checkbox"/>	14	192.168.7.240	<input checked="" type="checkbox"/>	Active	80	MSSP	LAN	1CC316219CB4	40.7.0.72	MS-C2963-FB	Milesight

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

Besides, you can select channels and click  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.

IP Edit


MAC	1CC316220108
Protocol	MSSP ▼
IP Address	192.168.7 .202
Subnet Mask	255.255.240.0
Gateway	192.168.7 .2
DNS	8 .8 .8 .8
Port	4200
User Name	admin
Password	

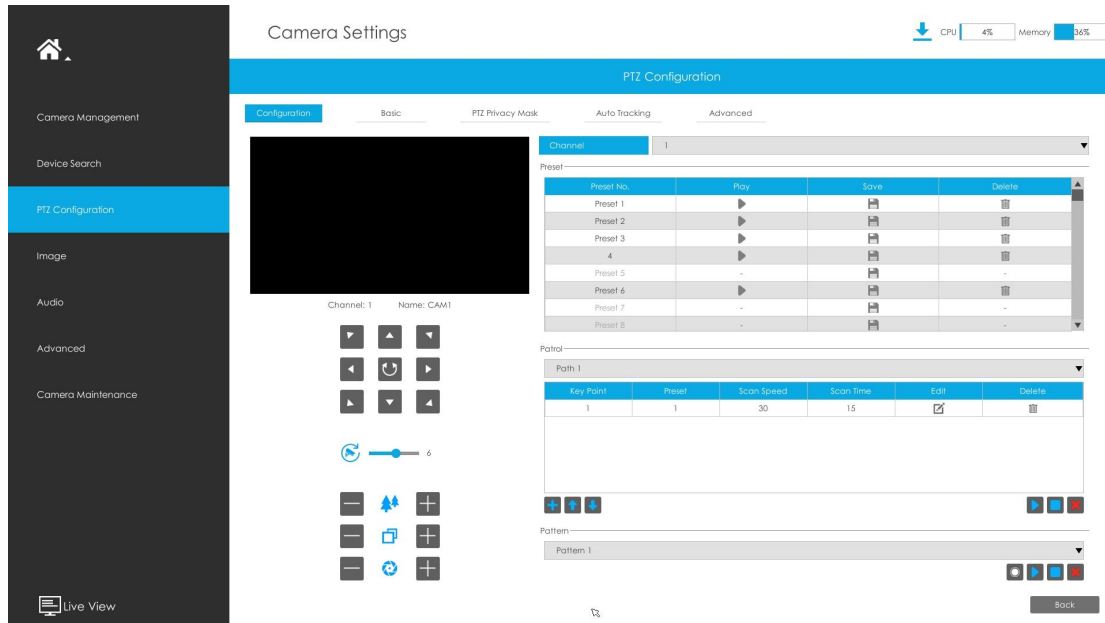
3.6.3 PTZ Configuration

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 and click  to save a preset position. Up to 300 presets could be set.



Camera Settings CPU 4% Memory 36%

PTZ Configuration

Configuration Basic PTZ Privacy Mask Auto Tracking Advanced

Channel: 1

Channel: 1 Name: CAM1

Channel: 1 Name: CAM1

Preset No.	Play	Save	Delete
Preset 1	▶	💾	🗑️
Preset 2	▶	💾	🗑️
Preset 3	▶	💾	🗑️
4	▶	💾	🗑️
Preset 5	-	💾	-
Preset 6	▶	💾	🗑️
Preset 7	-	💾	-
Preset 8	-	💾	-

Key Point	Preset	Scan Speed	Scan Time	Edit	Delete
1	1	30	15	✎	🗑️

Back

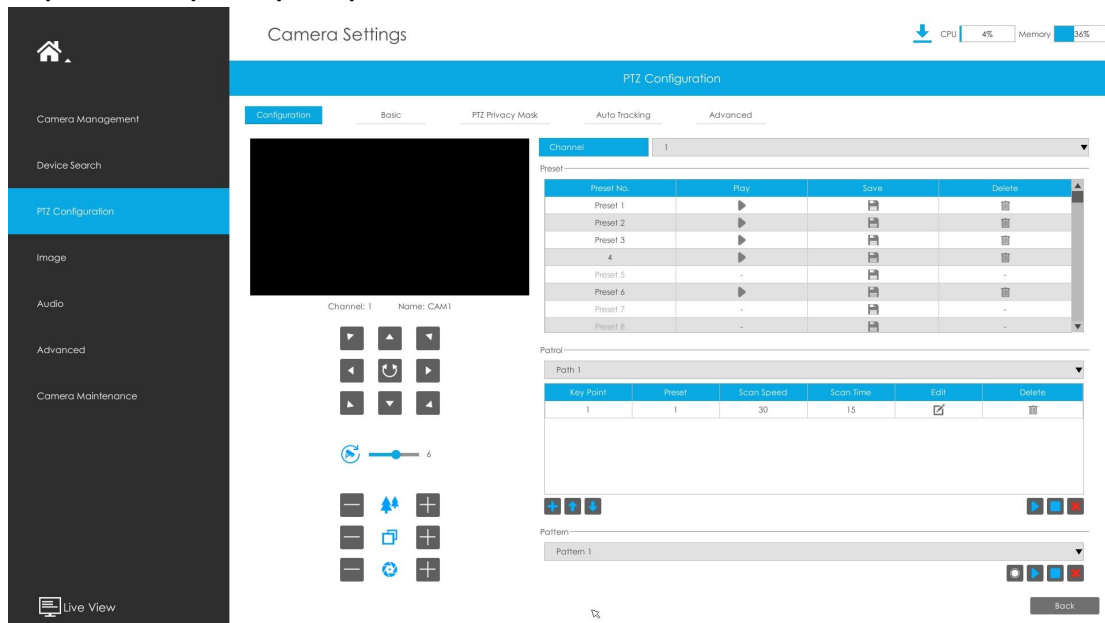
Step 2. Choose a preset number and click  to delete the preset position.

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.



Camera Settings CPU 4% Memory 36%

PTZ Configuration

Configuration Basic PTZ Privacy Mask Auto Tracking Advanced

Channel: 1


Channel: 1 Name: CAM1


Channel: 1 Name: CAM1

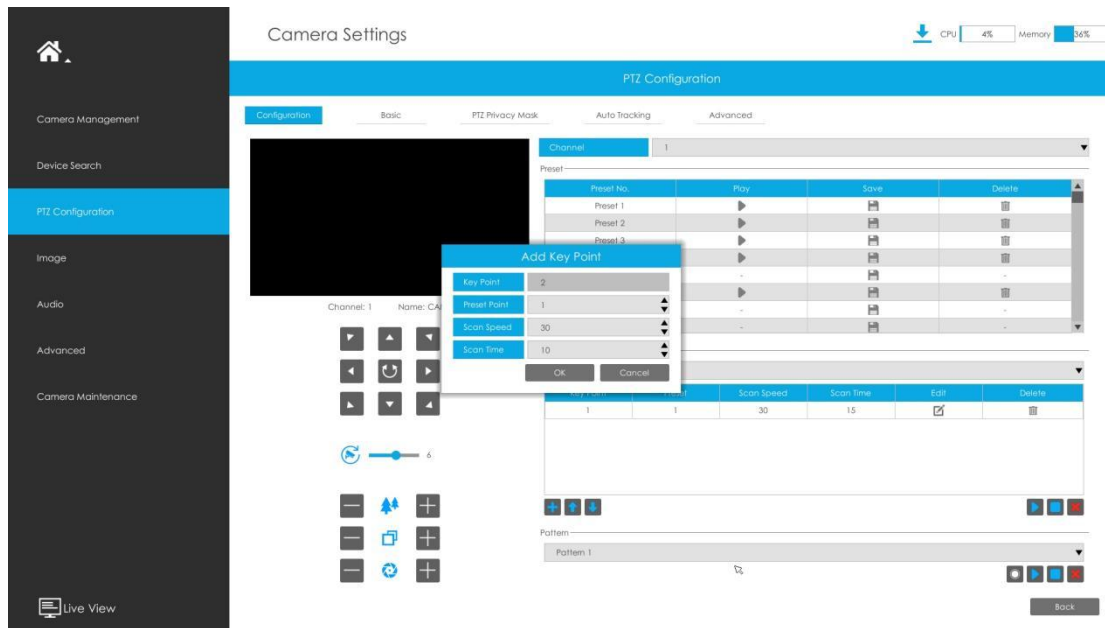
Preset No.	Play	Save	Delete
Preset 1	▶	💾	🗑️
Preset 2	▶	💾	🗑️
Preset 3	▶	💾	🗑️
4	▶	💾	🗑️
Preset 5	-	💾	-
Preset 6	▶	💾	🗑️
Preset 7	-	💾	-
Preset 8	-	💾	-

Key Point	Preset	Scan Speed	Scan Time	Edit	Delete
1	1	30	15	✎	🗑️

Back

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 .



Step 3. Click  to delete the preset position.

Step 4. Click  to preview the path patrol. Click  to stop.

Step 5. Click  to delete all preset positions of the path patrol.

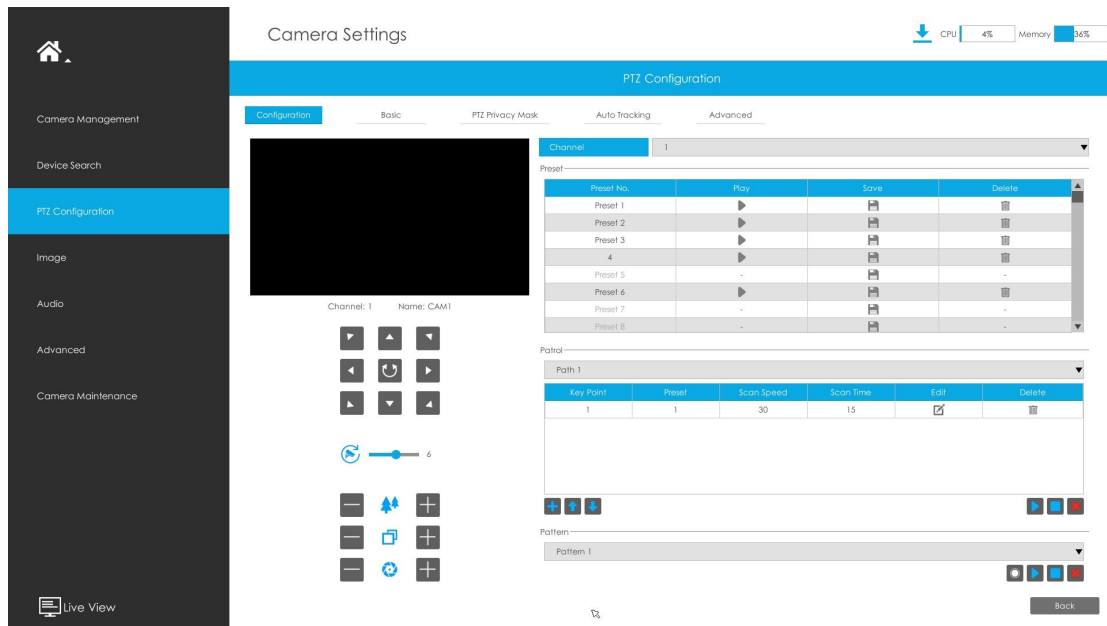
Note:

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

[Pattern]


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

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.

Step 3. Click  to save the PTZ movement patterns.

Step 4. Click  to preview the pattern. Click  to stop.

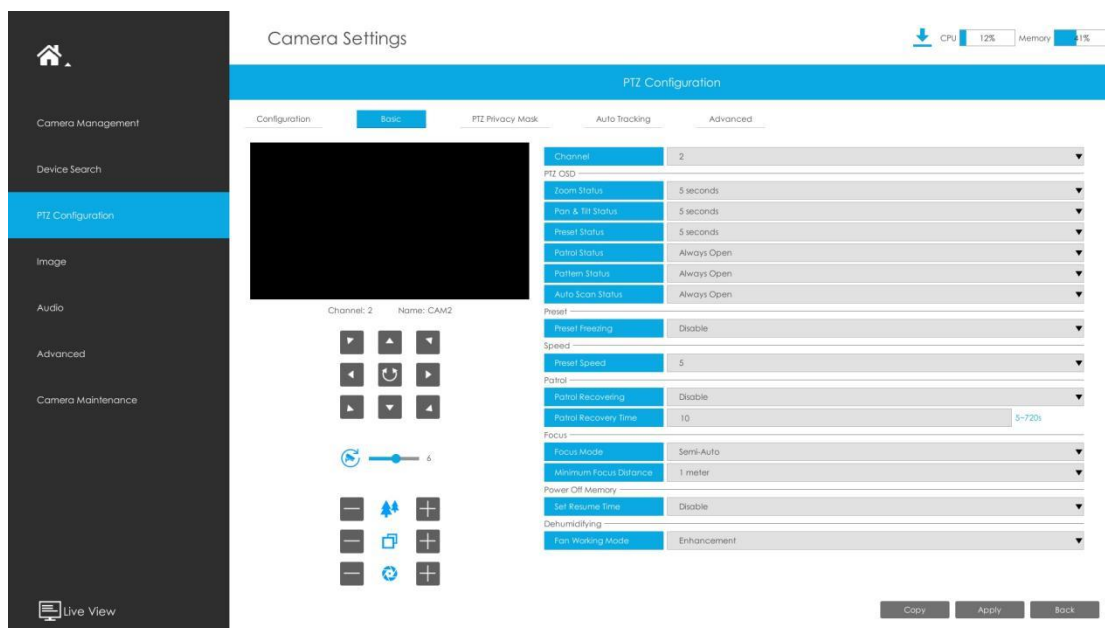
[PTZ Operation]



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

Basic

Users can configure the functions and parameters about Pan/Tilt/Zoom.



Step 1. Select channel.

Step 2. Configure the PTZ OSD parameter. You can set the Zoom status, Pan&Tilt Status, Preset Status with Always Close/Always Open/2s/5s/10s, and Patrol Status, Pattern Status, Auto Scan Status with Always Open/ Always Close

Step 3. If you enabled Preset Freezing, the live view of preset position will be showed directly instead of showing both the moving path to the position and the live view. It can also reduce the use of bandwidth in the digital network system.

Step 4. Set Speed.

Preset Speed: It determines the speed of calling presets. Level 1~10 are available

Manual Speed: It is only for Speed Dome, and it determines the PTZ speed of Manually control. Low/ Medium/ High are available

Step 5. Set Patrol.

Patrol Recovering: Enable Patrol Recovering

Patrol Recovering Time: Set time for Patrol Recovering, which is between 5 to 720 seconds

Step 6. Set Focus.

Focus Mode: Three focus modes are available: Auto/Semi-Auto/Manual

Minimum focus Distance: Set the minimum focus distance to adjust the step length of each focus. 1 meter, 1.5 meters, 3 meters, 6 meters, 10 meters and 20 meters are available. The default minimum focus distance is 1 meter

Step 7. Set Power Off Memory

If the camera stop working for a longer time than predefined, the position of it will be recorded. And it will resume to the position after going back to the normal work from power off. You can set the resume time to 30 seconds, 60 seconds, 300 seconds or 600 seconds to record its position

Step 8. Set Dehumidifying.

Fan Working Mode: Three fan working modes are available: General/Enhancement/Constant

General: The fans are turned on from 4am to 7am and 5pm to 8pm every day

Enhancement: The fans are turned on from 5pm to 7am every day

Constant: The fans work 24 hours a day

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.



The screenshot displays the PTZ Configuration interface for Channel 3 (CAM3). It features a live view window, a preset list, and a configuration table for PTZ Privacy Mask. The table includes columns for ID, Name, Type, Enable, Active Zoom Ratio, Edit, Area Edit, and Delete. The table contains four entries: PTZ Privacy Mask 1 (White, disabled, ratio 3), PTZ Privacy Mask 2 (White, disabled, ratio 2), Privacy Mask3 (White, disabled, ratio 1), and PTZ Privacy Mask 4 (Mosaic, enabled, ratio 1). A note at the bottom states: "Note: Support up to 24 mask and 4 mosaic areas." Buttons for "Apply" and "Back" are visible at the bottom right.

You can add a privacy mask by following steps:

Step 1. Select channel and enable Privacy Mask.

Step 2. Select the Region Type as Mask or Mosaic.

Step 3. Drag the mouse to select the area which needs to be protected on the live view window

and then click “  ” button to add the area to the table. You can add **24 masks and 4 mosaic areas** at most and each zone can be enabled and disabled. Please note that the areas added to the table will not take effect until you click “  ”.

Note:

- ① Ensure that your camera model isn't Lite series, or camera's version isn't 40.X.X.XX, 41.X.X.XX, and 46.X.X.XX.
- ② Ensure that your NVR version is V7x.9.0.14 or above, and camera version is Vxx.7.0.79 or above to support the mosaic area.

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

Camera Settings

CPU 12% Memory 40%

PTZ Configuration

Configuration Basic **PTZ Privacy Mask** Auto Tracking Advanced

1 2 3 4 5 6 7 8

Channel: 2 Name: CAM2

PTZ Privacy Mask Edit

Name: PTZ Privacy Mask1
Type: White
Active Zoom Ratio: 1

OK Cancel

	Name	Type	Enable	Active Zoom Ratio	Edit	Area Edit	Delete
1	PTZ Privacy Mask1	White	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Note: Support up to 24 Privacy Mask areas.

Apply Back

Step 4. Select “**Apply**” to save the settings.

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

CPU 4% Memory 30%

PTZ Configuration

Configuration Basic PTZ Privacy Mask **Auto Tracking** Advanced

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

Channel: 2 Name: CAM2

Auto Tracking

Auto Tracking Enable

Show Tracking Enable

Region

Sensitivity

Mask Tracking Time 5-300s

Tracking Zoom Ratio Auto Mode

Tracking Object Human Vehicle

Auto Tracking Schedule

Copy Apply Back

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.

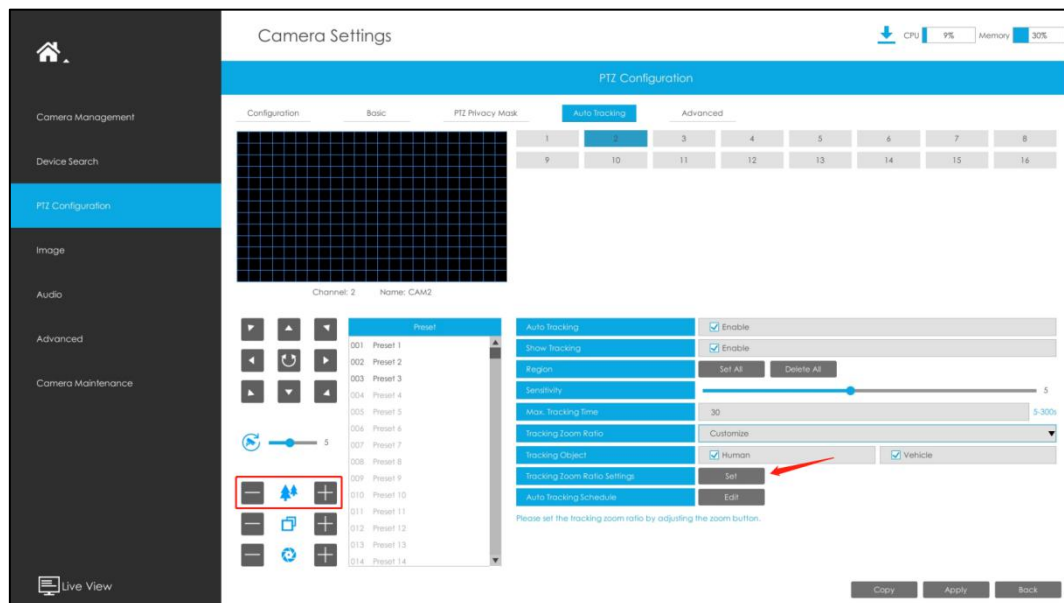
Step6. Select Tracking Zoom Ratio, which includes Auto Mode and Customize.

● 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  to save your configuration.



Step7. Check the type of tracking object as Human or Vehicle.

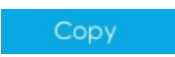
Step8. Click  to edit Auto Tracking Schedule which will be synchronized to IP Camera.

Step9. 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.

Camera Settings

CPU 11% Memory 2%

PTZ Configuration

Configuration Basic PTZ Privacy Mask Auto Tracking **Advanced**

Channel	2
Connection Type	ONVIF
Baud Rate	9600
Data Bit	8
Stop Bit	1
Checksum Bit	None
Protocol	PEICO_D
Address	1

Copy Apply Back

Note:

- 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.
- The PTZ protocol and address of IP channel must be consistent with those of the PTZ decoder.

3.6.4 Image

Camera Settings

CPU 4% Memory 23%

Image

Display Enhancement Day/Night Settings OSD Privacy Mask ROI

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

Channel: 1 Name: CAM1

Power Line Frequency	60Hz	Day/Night Mode	Auto Mode
Smart IR Mode	Customize	Day to Night Value	36
IR LED Level	100	Night to Day Value	82
Outdoor/Indoor Mode	Outdoor	IR Light Sensor Value	0
		Color Mode	Off
		Image Rotation	Off
		Keep Correct Aspect Ratio	Off

Copy Apply Back

3.6.4.1 Display

Camera Settings

CPU 4% Memory 23%

Image

Display Enhancement Day/Night Settings OSD Privacy Mask ROI

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

Channel: 1 Name: CAM1

Power Line Frequency: 60Hz

Smart IR Mode: Customize

IR LED Level: 100

Outdoor/Indoor Mode: Outdoor

Day/Night Mode: Auto Mode

Day to Night Value: 36

Night to Day Value: 82

IR Light Sensor Value: 0

Corridor Mode: Off

Image Rotation: Off

Keep Correct Aspect Ratio: Off

Copy 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:

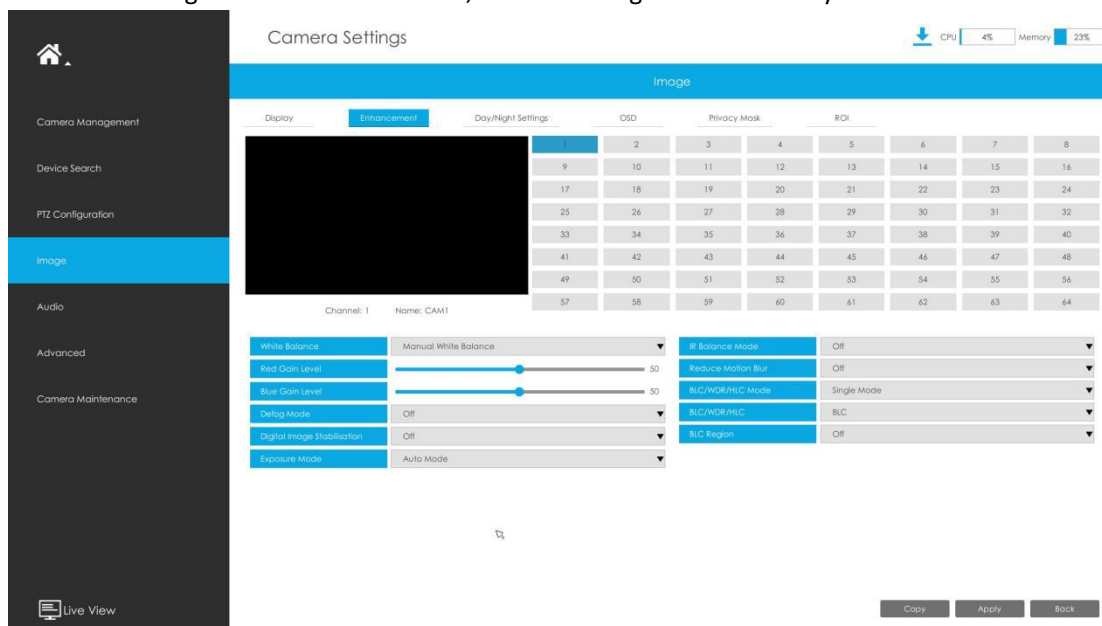
1. Smoked Dome Cover is only supported for Pro Dome and PTZ Dome cameras.
2. Smart IR Mode and IR LED Level are supported for cameras with IR LEDs.
3. White LED Level is only supported for PTZ Bullet cameras.
4. Day to Night Sensitivity and Night to Day Sensitivity under Auto Mode are only available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

Step 3. Copy the image settings to other channels by clicking  **on the bottom of the windows.**

Step 4. Select  **to save the settings.**

3.6.4.2 Enhancement

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



The screenshot shows the 'Camera Settings' interface for a camera channel named 'CAM1'. The 'Image' tab is selected, and the 'Enhancement' sub-tab is active. The interface displays a grid of 64 camera channels (8x8) and a list of settings for the selected channel. The settings include:

- White Balance: Manual White Balance
- Red Gain Level: 50
- Blue Gain Level: 50
- Defog Mode: Off
- Digital Image Stabilization: Off
- Exposure Mode: Auto Mode
- IR Balance Mode: Off
- Reduce Motion Blur: Off
- BLC/WDR/HLC Mode: Single Mode
- BLC/WDR/HLC: BLC
- BLC Region: Off

At the bottom right, there are buttons for 'Copy', 'Apply', and 'Back'.

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).

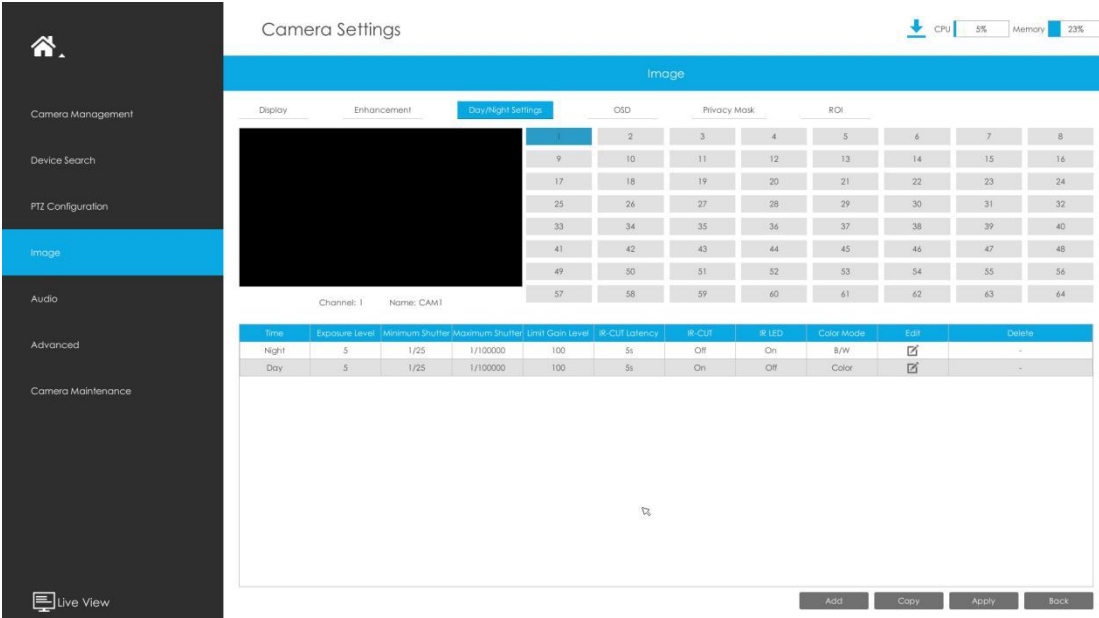
HLC Level: Select level for HLC.

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

Step 3. Copy the image settings to other channels by clicking  on the bottom of the windows.

Step 4. Select  to save the settings.

3.6.4.3 Day/Night Settings



The screenshot shows the 'Camera Settings' interface with the 'Image' tab selected. The 'Day/Night Settings' sub-tab is active, displaying a grid of 64 camera channels (8x8) and a configuration table below it. The table has columns for Time, Exposure Level, Minimum Shutter, Maximum Shutter, Limit Gain Level, IR-CUT Latency, IR-CUT, IR LED, Color Mode, Edit, and Delete. The 'Night' mode is currently selected for the first channel.

Time	Exposure Level	Minimum Shutter	Maximum Shutter	Limit Gain Level	IR-CUT Latency	IR-CUT	IR LED	Color Mode	Edit	Delete
Night	5	1/25	1/100000	100	5s	Off	On	B/W	<input checked="" type="checkbox"/>	-
Day	5	1/25	1/100000	100	5s	On	Off	Color	<input checked="" type="checkbox"/>	-

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.

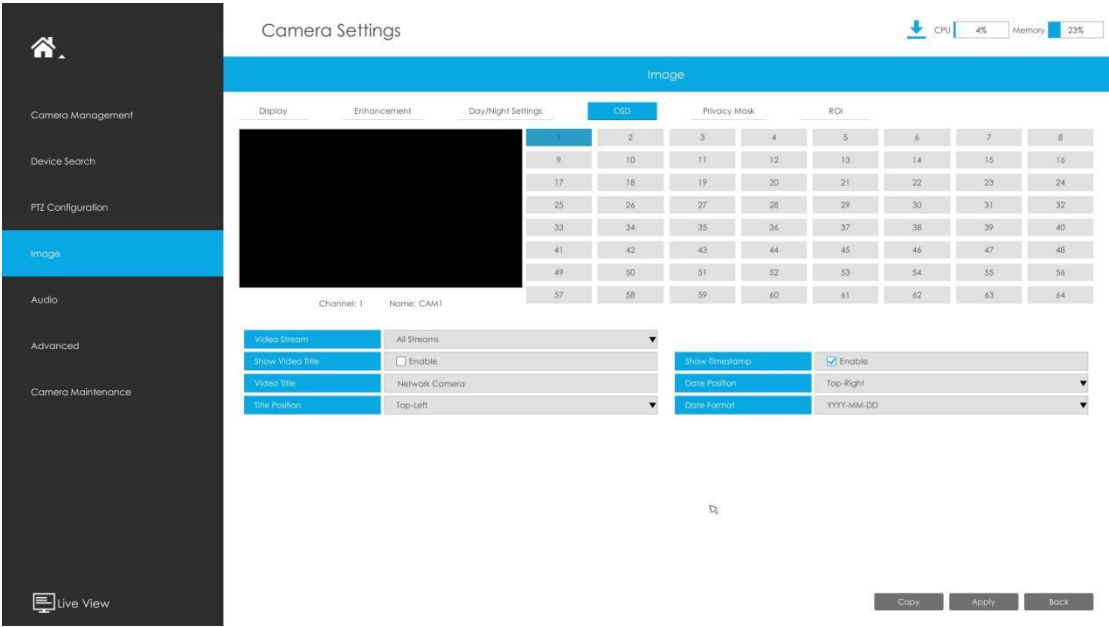
Edit: Edit the parameters above.

Step 3. Copy the image settings to other channels by clicking  on the bottom of the windows.

Step 4. Select  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.



The screenshot shows the 'Camera Settings' interface with the 'Image' tab selected. The 'OSD' sub-tab is active, displaying a grid of 64 channels (1-64) for selection. Below the grid, there are settings for 'Channel: 1' and 'Name: CAM1'. The settings include:

- Video Stream:** All Streams
- Show Video Title:** Enable
- Video Title:** Network Camera
- Title Position:** Top-Left
- Show Timestamp:** Enable
- Date Position:** Top-Right
- Date Format:** YYYY-MM-DD

At the bottom right, there are buttons for 'Copy', 'Apply', and '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.



The screenshot shows the OSD settings for Channel 1 with the following configurations:

- Video Stream:** All Streams
- Show Video Title:** Enable
- Video Title:** Pro Bullet
- Title Position:** Top-Left
- Show Timestamp:** Enable
- Date Position:** Top-Right
- 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 “” button on the bottom of the windows.

Step 5. Select “” 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.

The screenshot shows the 'Camera Settings' interface with the 'Image' tab selected. The 'Privacy Mask' sub-tab is active, displaying a live view of a camera feed with two red boxes indicating mask areas. Below the live view, there is a table of configured privacy masks.

ID	Name	Type	Enable	Edit	Delete
1	Mask1	White	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Mask2	Mosaic	<input checked="" type="checkbox"/>	-	<input type="checkbox"/>

Below the table, there is a note: "Note: Support up to 24 mask and 4 mosaic areas." At the bottom right, there are buttons for 'Copy', 'Apply', and 'Back'.

You can add a privacy mask by following steps:

Step 1. Select channel and enable privacy mask.

Step 2. Select the Region Type as Mask or Mosaic.

Step 3. Drag the mouse to select the area which needs to be protected on the live view window and then click “ ” button to add the area to the table. You can add **24 masks and **4 mosaic areas** at most and each zone can be enabled and disabled. Please note that the areas added to the table will not take effect until you click “ ”.**

Note:

- ① Ensure that your camera model isn't Lite series, or camera's version isn't 40.X.X.XX, 41.X.X.XX, and 46.X.X.XX.
- ② Ensure that your NVR version is V7x.9.0.14 or above, and camera version is Vxx.7.0.79 or above to support the mosaic area.

Step 3. Copy the privacy 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:

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.

The screenshot shows the 'Camera Settings' interface for a camera named 'CAM1'. The 'Image' tab is selected, and the 'ROI' sub-tab is active. A video preview window shows a black frame with a blue ROI box. Below the preview, there is a table for managing ROI areas:

ID	Name	Enable	Delete
1	ROI1	<input checked="" type="checkbox"/>	

At the bottom of the interface, there are buttons for 'Copy', 'Apply', and 'Back'. A note at the bottom of the ROI table states: 'Note: Support up to 8 ROI areas.'

You can add a ROI by following steps:

Step 1. Select channel and enable ROI.

Step 2. Set the video stream type to achieve bandwidth and storage optimization, including Primary Stream and Secondary Stream. And drag the mouse to select the area in the preview window. Then click “**Add**” button to add the area to the table. You can add **8 areas** at most and each zone can be enabled and disabled. Please note that the areas added to the table will not take effect until you click “**Apply**”.

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:

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

3.6.5 Audio

The screenshot shows the 'Camera Settings' interface for a camera. The 'Audio' tab is selected in the sidebar. The main area displays a live view window (Channel: 2, Name: CAM2) and a grid of camera channels (1-64). Below the grid, the 'Audio' settings are configured as follows:

Setting	Value
Audio	Enable
Audio Mode	Both Audio Input & Output
Denoise	Enable
Encoding	G.711-ULaw
Input Mode	Mic Input
Sample Rate	8KHz
Input Gain	00
Audio Output	100
Auto Gain Control	Enable
Output Volume	100

Buttons for 'Copy', 'Apply', and 'Back' are located at the bottom right of the settings panel.

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

You can add a watermark by following steps:

Step 1. Select channel.

Step 2. Click the checkbox to enable Watermark.

Step 3. Enter Watermark String.

Step 4. Copy the image settings to other channels by clicking [Copy](#) on the bottom of the windows.

Step 5. Select [Apply](#) to save the settings.

Note:

Watermark only appears when exporting by a third party.

3.6.7 Camera Maintenance

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

Local Upgrade

Step 1. Click [Browse](#) and select the corresponding firmware you downloaded in your USB;

Camera Settings

CPU 2% Memory 21%

Camera Maintenance

Local Upgrade Online Upgrade

Firmware

Reset Reset settings to factory default (except IP Address and User Information)

Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Upgrade Progress
<input type="checkbox"/>	1 CAM1	●	192.168.14.102	-	ONVIF	1CC314210991	40.7.0.78-r1	MS-C2942-FB	-
<input type="checkbox"/>	2 CAM2	●	192.168.14.103	-	ONVIF	1CC314219804	40.7.0.78-r1	MS-C2941-EB	-
<input type="checkbox"/>	3 CAM3	●	192.168.14.104	-	ONVIF	1CC314238D13	40.7.0.78-r1	MS-C2942-B	-
<input type="checkbox"/>	4 CAM4	●	192.168.14.105	1	ONVIF	1CC314220D8D	43.7.0.78-r1	MS-C9474-FB	-

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

Camera Settings

CPU 2% Memory 21%

Camera Maintenance

Local Upgrade Online Upgrade

Firmware

Reset Reset settings to factory default (except IP Address and User Information)

Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Upgrade Progress
<input type="checkbox"/>	1 CAM1	●	192.168.14.102	-	ONVIF	1CC314210991	40.7.0.78-r1	MS-C2942-FB	-
<input type="checkbox"/>	2 CAM2	●	192.168.14.103	-	ONVIF	1CC314219804	40.7.0.78-r1	MS-C2941-EB	-
<input type="checkbox"/>	3 CAM3	●	192.168.14.104	-	ONVIF	1CC314238D13	40.7.0.78-r1	MS-C2942-B	-
<input type="checkbox"/>	4 CAM4	●	192.168.14.105	1	ONVIF	1CC314220D8D	43.7.0.78-r1	MS-C9474-FB	-

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

Camera Settings

CPU 2% Memory 21%

Camera Maintenance

Local Upgrade Online Upgrade

Firmware

Reset Reset settings to factory default (except IP Address and User information)

Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Upgrade Progress
1	CAM1	●	192.168.14.102	-	ONVIF	1CC316210991	40.7.0.78-r1	MS-C2962-FPB	-
2	CAM2	●	192.168.14.103	-	ONVIF	1CC316219804	40.7.0.78-r1	MS-C2961-EB	-
3	CAM3	●	192.168.14.104	-	ONVIF	1CC316238D13	40.7.0.78-r1	MS-C2942-B	-
4	CAM4	●	192.168.14.105	1	ONVIF	1CC316220DBD	43.7.0.78-r1	MS-C9674-FB	-

Online Upgrade

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.

Camera Settings

CPU 2% Memory 22%

Camera Maintenance

Local Upgrade Online Upgrade

Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrade Progress
1	CAM1	●	192.168.14.102	-	ONVIF	1CC316210991	40.7.0.78-r1	MS-C2962-FPB	-	⬇	-
2	CAM2	▲	192.168.14.103	-	ONVIF	1CC316219804	40.7.0.78-r1	MS-C2961-EB	-	⬇	-
3	CAM3	▲	192.168.14.104	-	ONVIF	1CC316238D13	40.7.0.78-r1	MS-C2942-B	-	⬇	-
4	CAM4	●	192.168.14.105	1	ONVIF	1CC316220DBD	43.7.0.78-r1	MS-C9674-FB	-	⬇	-

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

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

Camera Settings

CPU 2% Memory 22%

Camera Maintenance

Local Upgrade Online Upgrade

Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrade Progress
<input type="checkbox"/>	1	CAM1	192.168.14.102	-	ONVIF	1CC316210991	40.7.0.78-r1	MS-C2962-FB	-		-
<input type="checkbox"/>	2	CAM2	192.168.14.103	-	ONVIF	1CC316219804	40.7.0.78-r1	MS-C2961-EB	-		-
<input type="checkbox"/>	3	CAM3	192.168.14.104	-	ONVIF	1CC316219804	40.7.0.78-r1	MS-C2961-EB	-		-
<input type="checkbox"/>	4	CAM4	192.168.14.105	1	ONVIF	1CC31622008D	43.7.0.78-r1	MS-C9674-PB	-		-

Check Upgrade Refresh Back

② A way to achieve batch upgrade. Just select the cameras you want to upgrade and then click **Upgrade** button.

Camera Settings

CPU 2% Memory 22%

Camera Maintenance

Local Upgrade Online Upgrade

Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrade Progress
<input checked="" type="checkbox"/>	1	CAM1	192.168.14.102	-	ONVIF	1CC316210991	40.7.0.78-r1	MS-C2962-FB	-		-
<input checked="" type="checkbox"/>	2	CAM2	192.168.14.103	-	ONVIF	1CC316219804	40.7.0.78-r1	MS-C2961-EB	-		-
<input checked="" type="checkbox"/>	3	CAM3	192.168.14.104	-	ONVIF	1CC316219804	40.7.0.78-r1	MS-C2961-EB	-		-
<input checked="" type="checkbox"/>	4	CAM4	192.168.14.105	1	ONVIF	1CC31622008D	43.7.0.78-r1	MS-C9674-PB	-		-

Check Upgrade Refresh Back

3.7 Storage

Storage

CPU 4% Memory 23%

Video Record

Record Schedule Record Settings

Channel: 1 Name: CAM1

Clear All Select All Edit

0 2 4 6 8 10 12 14 16 18 20 22 24

Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Holiday

Erase
Continuous
Event

Event
Motion Detection
Alarm
YCA
Smart Analysis

Copy 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 Management

Part	Vendor	Status	Total	Free	Property	Type	Group	Edit	Delete
3	WDC WD20EZRK-00DC0B0	Normal	1.819 TB	78.00 GB	R/W	LOCAL	2	✎	-

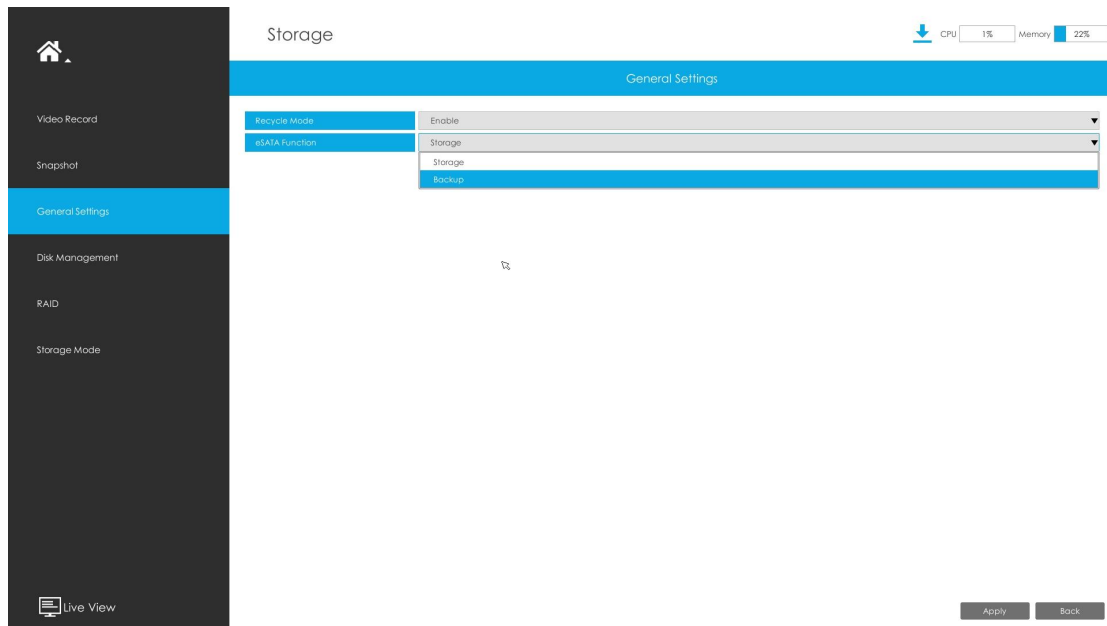
Total Capacity 1.819 TB

Available Capacity 78.00 GB

Add Refresh Initialize 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 .



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.

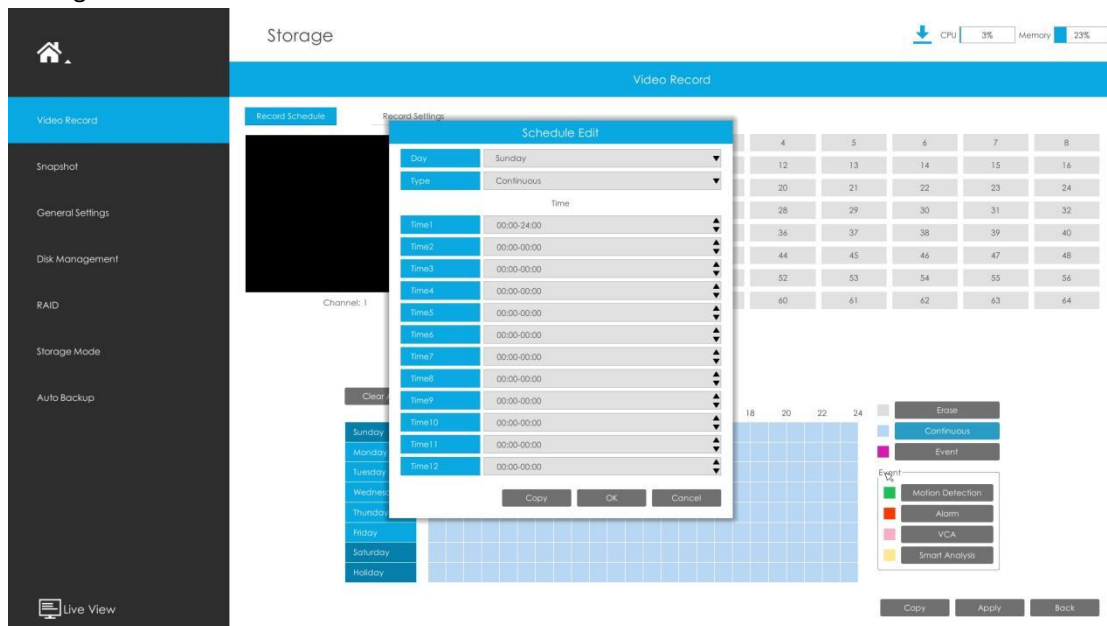
3.7.1 Video Record

Record Schedule

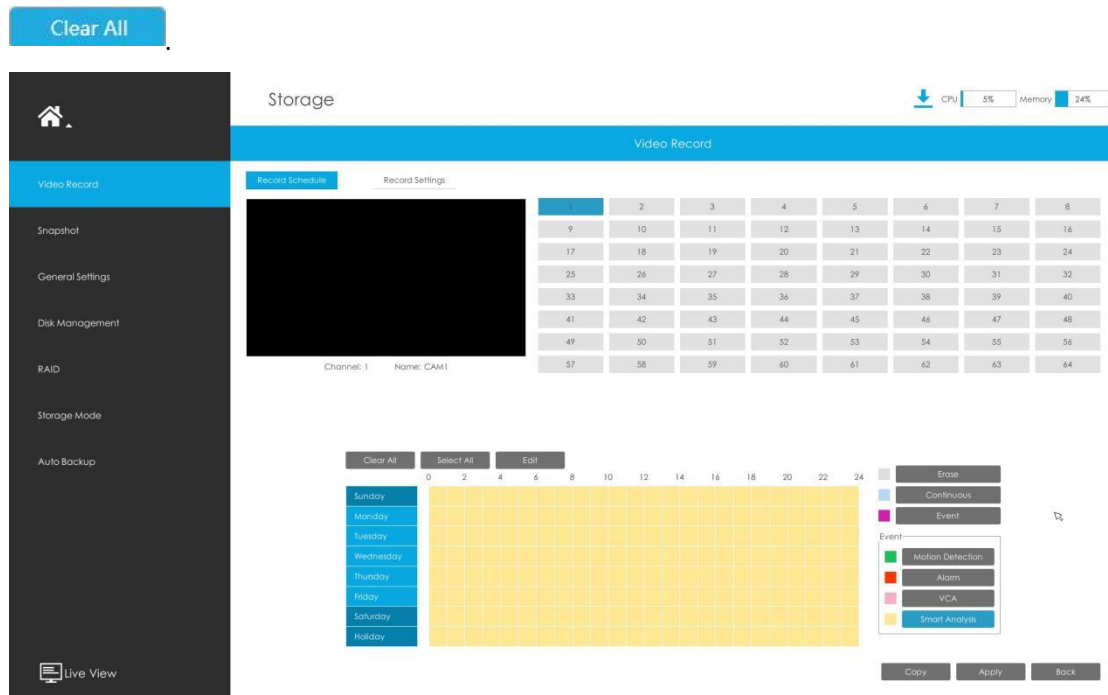
Step 1. Select channel.

Step 2. Set record schedule.

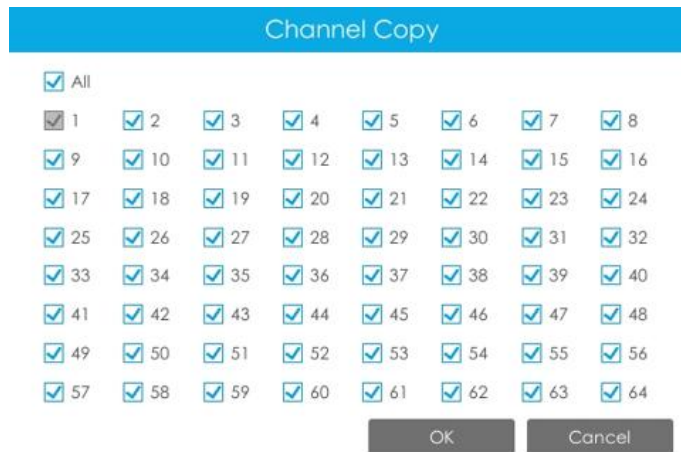
Method 1: Click **Edit** to edit schedule. Select Day, Record Type and Time to finish editing.



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 **Select All** or



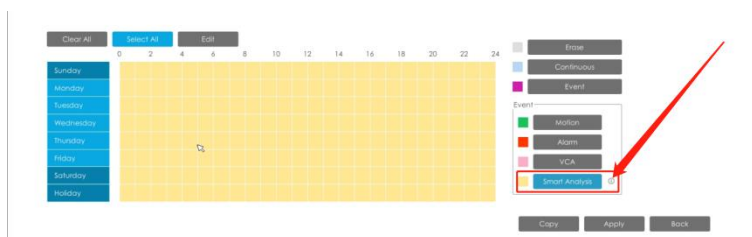
Step 3. Click **Copy** to copy the same record configuration to other channels.



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.



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).

Action

Audible Warning

Email Linkage

Event Popup

PTZ Action

Alarm Output

White LED

Others

Trigger Channels Record

All

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

Trigger Channels Snapshot

All

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

Note: This page's configuration will not be copied into other channels.

Record Settings

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

Channel: Select the channel which will be set.

Pre Record : Event pre-record duration time. It will start recording before the event is triggered.

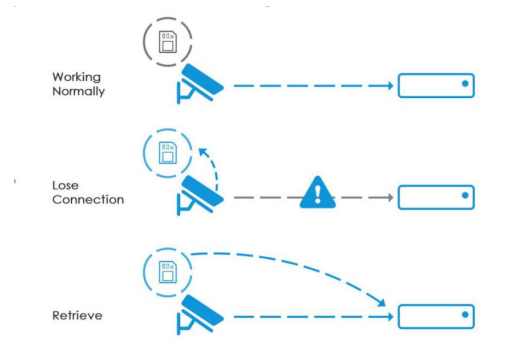
Post Record: Event post-record duration time. It will keep recording after the event is over.

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 be 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.

The screenshot shows the NVR web interface with the following elements:

- Storage** (top right)
- CPU 5%** and **Memory 24%** (top right)
- Video Record** (blue header)
- Record Schedule** and **Record Settings** (tabs)
- Record Settings** (active tab) showing a grid of recording slots (1-64) and a list of settings:

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

- Channel: 1 Name: CAM1
- Pre Record: Disable
- Post Record: Disable
- Audio Record: Enable
- Record Stream Type: Primary Stream
- Video Due Time: Unlimit
- ANR: Disable

Buttons: Copy, Apply, Back

3.7.2 Snapshot

Note: NVR models ending with the letter C do not support this function.

Snapshot Schedule

Step 1. Select channel.

Step 2. Set snapshot schedule.

Method 1: Click **Edit** to edit schedule. Select Day and Time to finish editing.

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 schedule by clicking **Select All** or **Clear All**.

The screenshot shows the 'Storage' settings page with the 'Snapshot' tab selected. The left sidebar contains navigation options: Video Record, Snapshot, General Settings, Disk Management, RAID, Storage Mode, and Auto Backup. The main content area is titled 'Snapshot' and includes a 'Snapshot Schedule' section with a 'Snapshot Settings' sub-tab. A video preview window shows a black screen with 'Channel: 1' and 'Name: CAM1' below it. To the right is a 7x8 grid of snapshot thumbnails numbered 1 to 56. Below the grid are settings for 'Snapshot Interval' (10 Seconds) and 'Snapshot Dup Time' (Unlimit). At the bottom right are 'Copy', 'Apply', and 'Back' buttons. System status at the top right shows CPU at 3% and Memory at 25%.

3.7.3 General Settings

The screenshot shows the 'Storage' settings page with the 'General Settings' tab selected. The left sidebar is the same as in the previous screenshot. The main content area is titled 'General Settings' and contains two settings: 'Recycle Mode' set to 'Enable' and 'eSATA Function' set to 'Storage'. Below these are 'Apply' and 'Back' buttons. System status at the top right shows CPU at 1% and Memory at 22%.

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 Management

<input checked="" type="checkbox"/>	Part	Vendor	Status	Total	Free	Property	Type	Group	Edit	Delete
<input checked="" type="checkbox"/>	3	WDC WD20EZRX-00DCC00	Normal	1.819 TB	78.00 GB	R/W	LOCAL	2		

Total Capacity 1.819 TB
Available Capacity 78.00 GB

Add Refresh Initialize 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.

Storage CPU 1% Memory 23%

Disk Management

<input type="checkbox"/>	Part	Vendor	Status	Total	Free	Property	Type	Group	Edit	Delete
<input type="checkbox"/>	3	WDC WD20EZRX-00DCC00	Normal	1.819 TB	78.00 GB	R/W	LOCAL	2		

Total Capacity 1.819 TB
Available Capacity 78.00 GB

Add Network Disk

Network Disk: Network Disk1

Type: NAS

IP Address:

Directory:

No.	Directory

Search OK Cancel

Add Refresh Initialize Back

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

Disk Edit

Port	3
Capacity	1.819 TB
Group	2 ▼
Property	R/W ▼
Private	Disable ▼

OK
Cancel

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

3.7.5 RAID

- Video Record
- Snapshot
- General Settings
- Disk Management
- RAID
- Storage Mode

Storage

↓ CPU 1% Memory 23%

RAID

RAID Mode
 Enable

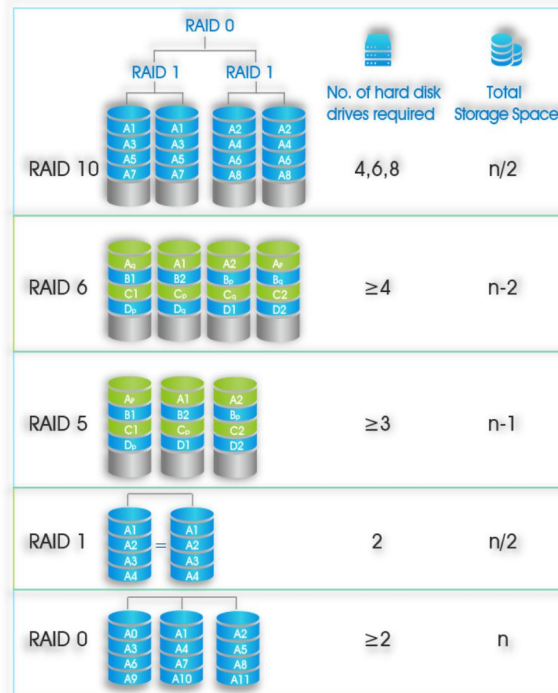
Port	Vendor	Status	Capacity	Type	Hot Spare
3	WDC WD10EJRX-89N74Y0	Offline	0	LOCAL	-
7	WDC WD10EJRX-89N74Y0	Normal	931.51 GB	LOCAL	⏻

Quick Create
Create

No.	Name	Physical Disk	RAID Capacity	Status	Level	Hot Spare	Rebuild	Delete	Task

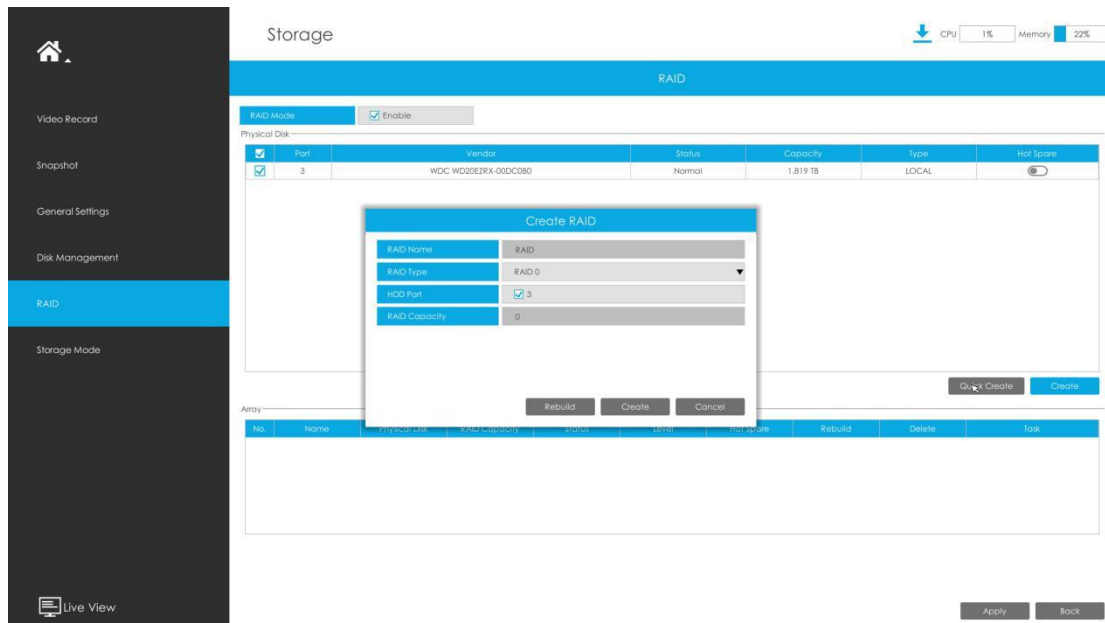
Apply
Back

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.



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. Support more than 16TB capacity for creating the RAID, and the RAID data can be read and written normally. This meets users' storage requirements for larger capacity.
3. Quick Create only for RAID5.

3.7.6 Storage Mode

Quota

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

The screenshot shows the 'Storage Mode' configuration page. At the top right, there are system status indicators for CPU (1%) and Memory (26%). The main section is titled 'Storage Mode' and contains a 'Quota' dropdown menu set to 'Enable'. Below this, there are three input fields: 'Channel' (set to 1), 'Used Record Capacity (GB)' (78), and 'Used Snapshot Capacity (GB)' (1). Further down, there are two more input fields: 'Record Quota (GB)' (78) and 'Snapshot Quota (GB)' (0), both with range indicators from 4 to 16384 GB. A table below these fields lists 17 channels (CAM1 to CAM17) with their respective used record and snapshot capacities, and their configured record and snapshot quotas. At the bottom right, there are 'Copy', 'Apply', and 'Back' buttons.

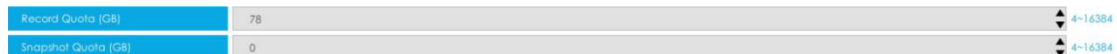
Step 1. Enable Quota.






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.



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



Step 4. Click  **to take effect the configuration of the current interface.**

Click  to 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.

Channel Copy

All

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

The screenshot shows the 'Storage Mode' interface. At the top right, there are system status indicators: CPU 3% and Memory 27%. The main area is titled 'Storage Mode' and contains a 'Group' configuration section. Below this, there is a table for channel selection. The table has columns for channels 1 through 64, with a 'Channel' header and an 'All' checkbox. All checkboxes in the table are checked. A note at the bottom of the table reads: 'Note: You can set disk into other groups of Disk interface after Group enabled.' At the bottom right of the interface, there are 'Apply' and 'Back' buttons.

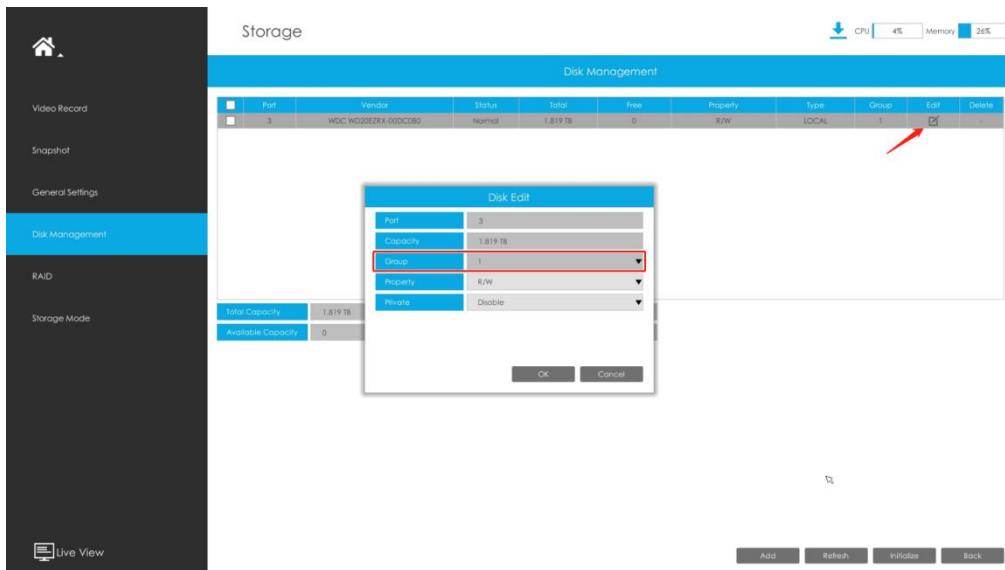
Step 1. Enable Group.

Group Mode: Enable

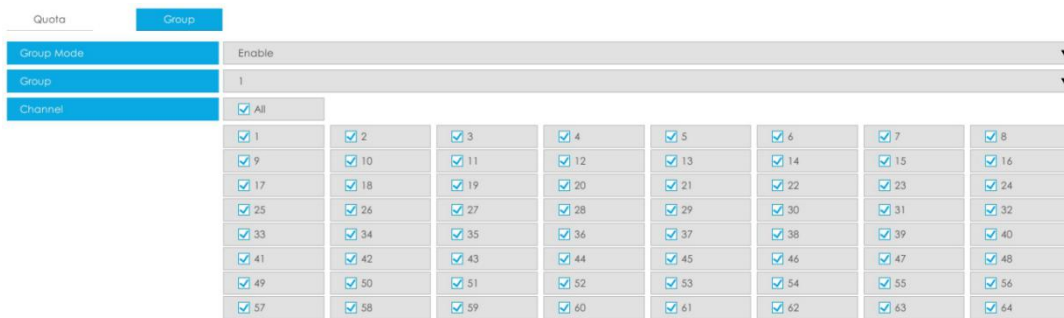
Step 2. Switch to Disk Management interface. Click  and set the group number of every disk.

Note:

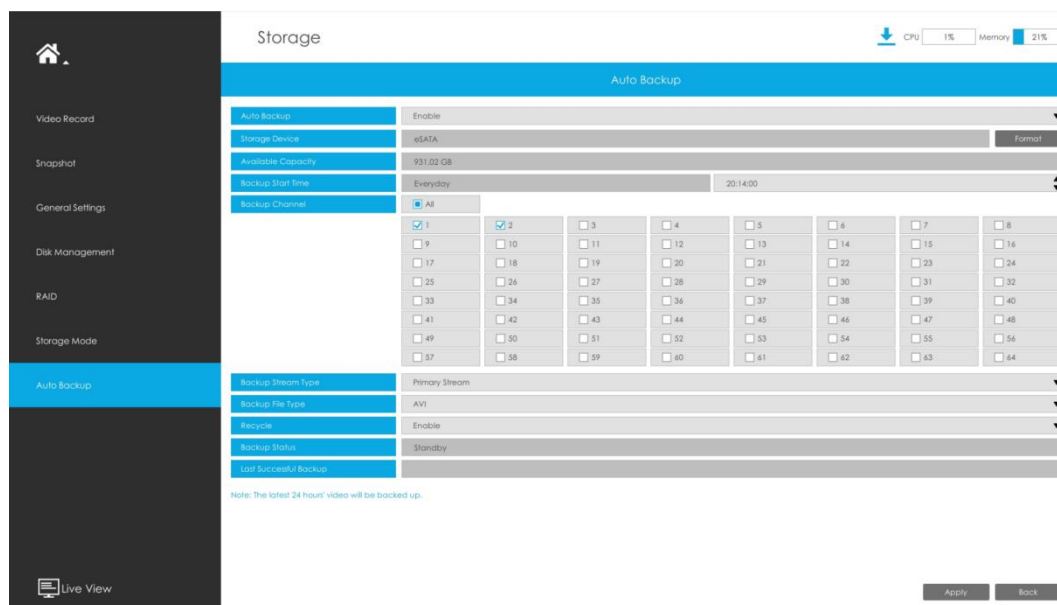
You can add 16 groups at most.



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



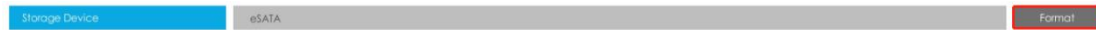
3.7.7 Auto Backup



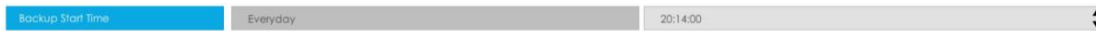
Step 1. Enable Auto Backup.




Step 2. Click  to format the eSATA disk.



Step 3. Set Backup Start Time.




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  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

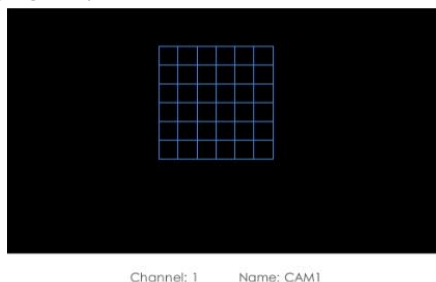
3.8.1 Motion Detection

Step 1. Enable Motion Detection.

Select channel , Sensitivity and click to enable Motion Detection.

Step2: Set the area for triggering motion detection.

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



Note:

The motion detection area will be synchronized to Camera.

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



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



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

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

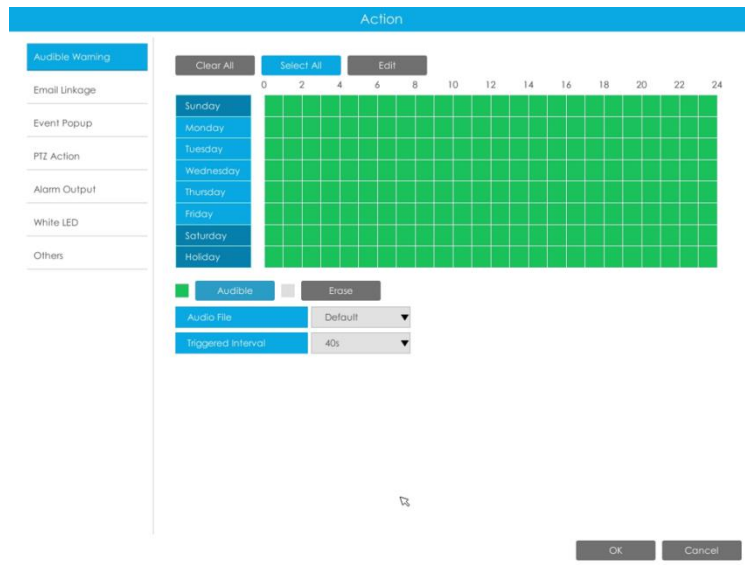
The user can set effective schedule as following two ways:

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  or  to set or clear all time settings.

② Click  to edit record effective time manually.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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



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

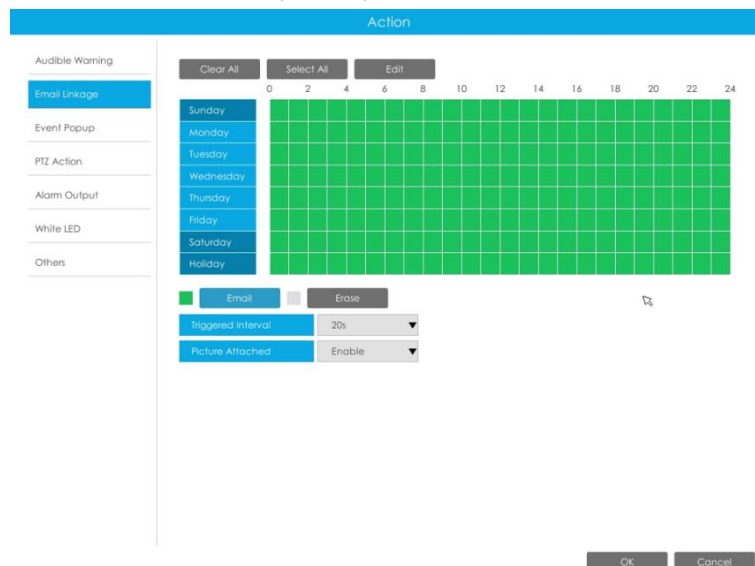
The user can set effective schedule as following two ways:

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.

The screenshot shows the 'Action' configuration window for 'Event Popup'. On the left is a sidebar menu with options: Audible Warning, Email Linkage, Event Popup (selected), PTZ Action, Alarm Output, White LED, and Others. The main area features a 24-hour time grid (0-24) with rows for days of the week (Sunday to Holiday). The grid is currently filled with green squares, indicating the 'Event Popup' action is active. Above the grid are buttons for 'Clear All', 'Select All', and 'Edit'. Below the grid are controls for 'Event Popup' (checked), 'Erase', and a 'Triggered Interval' dropdown set to '20s'. At the bottom right are 'OK' and 'Cancel' buttons.

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 **Edit** to edit record effective time manually.

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

The screenshot shows the 'Action' configuration window for 'PTZ Action'. The sidebar menu is the same as in the previous screenshot, but 'PTZ Action' is selected. The 24-hour time grid is also filled with green squares. The 'Event Popup' checkbox is unchecked, and the 'PTZ' checkbox is checked. The 'Triggered Interval' dropdown is still set to '20s'. Below the grid is a table for 'PTZ Action' with columns: Channel, Action Type, No., Edit, and Delete. The table is currently empty. At the bottom right are 'OK' and 'Cancel' buttons.

And you can add PTZ Action by clicking  .



The 'Add PTZ Action' dialog box contains three dropdown menus: 'Channel' set to 1, 'Action Type' set to Preset, and 'No.' set to 1. At the bottom are 'OK' and 'Cancel' buttons.

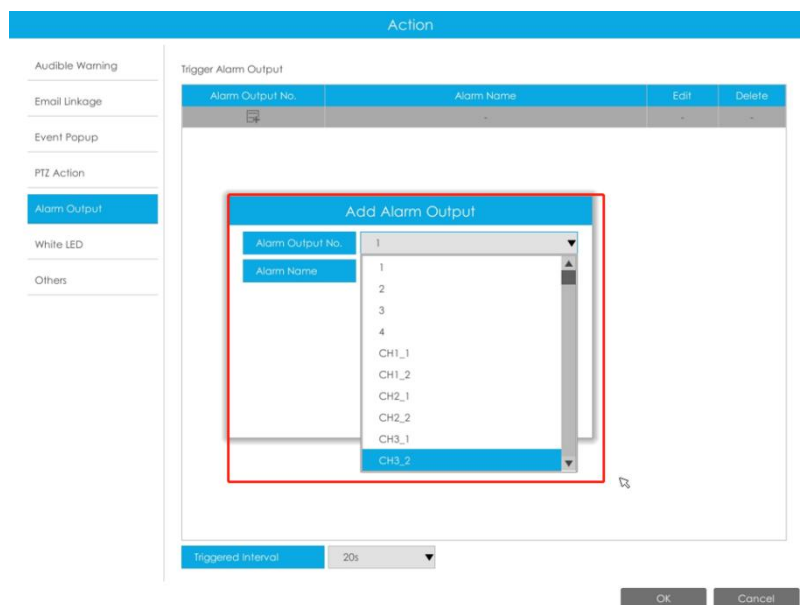
Channel: Select the channel which supports this function.

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.



The 'Action' configuration interface shows a sidebar with options: Audible Warning, Email Linkage, Event Popup, PTZ Action, Alarm Output (selected), White LED, and Others. The main area is titled 'Trigger Alarm Output' and contains a table with columns 'Alarm Output No.', 'Alarm Name', 'Edit', and 'Delete'. A red box highlights an 'Add Alarm Output' dialog box within this area. The dialog has two dropdown menus: 'Alarm Output No.' set to 1 and 'Alarm Name' with a list of options including 1, 2, 3, 4, CH1_1, CH1_2, CH2_1, CH2_2, CH3_1, and CH3_2. Below the dialog is a 'Triggered Interval' dropdown set to 20s. 'OK' and 'Cancel' buttons are at the bottom right.

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.

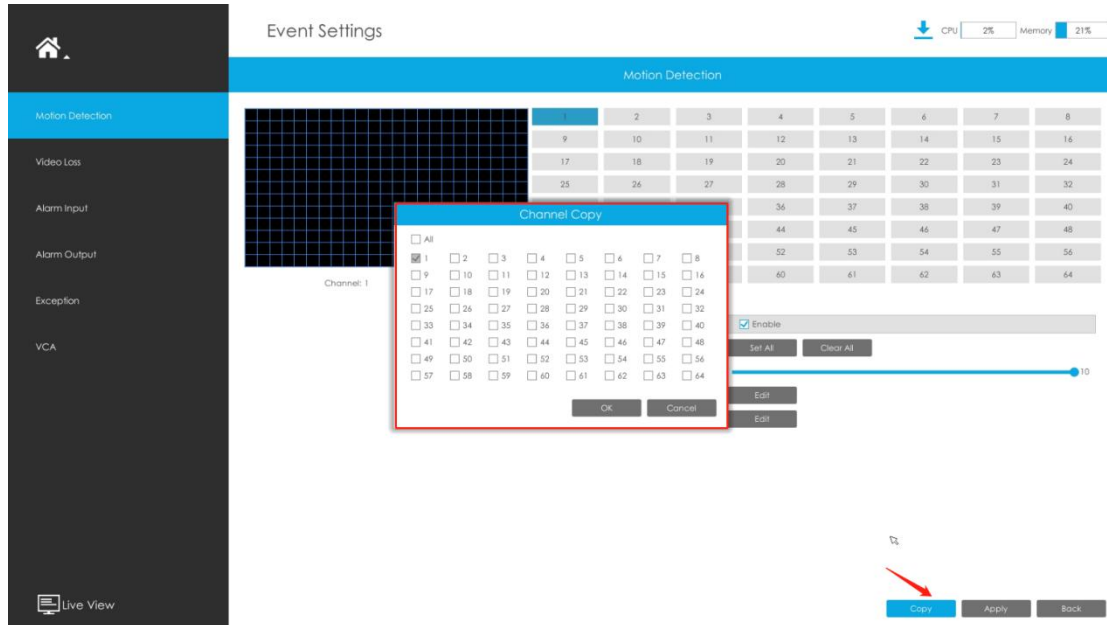
Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

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

Note:

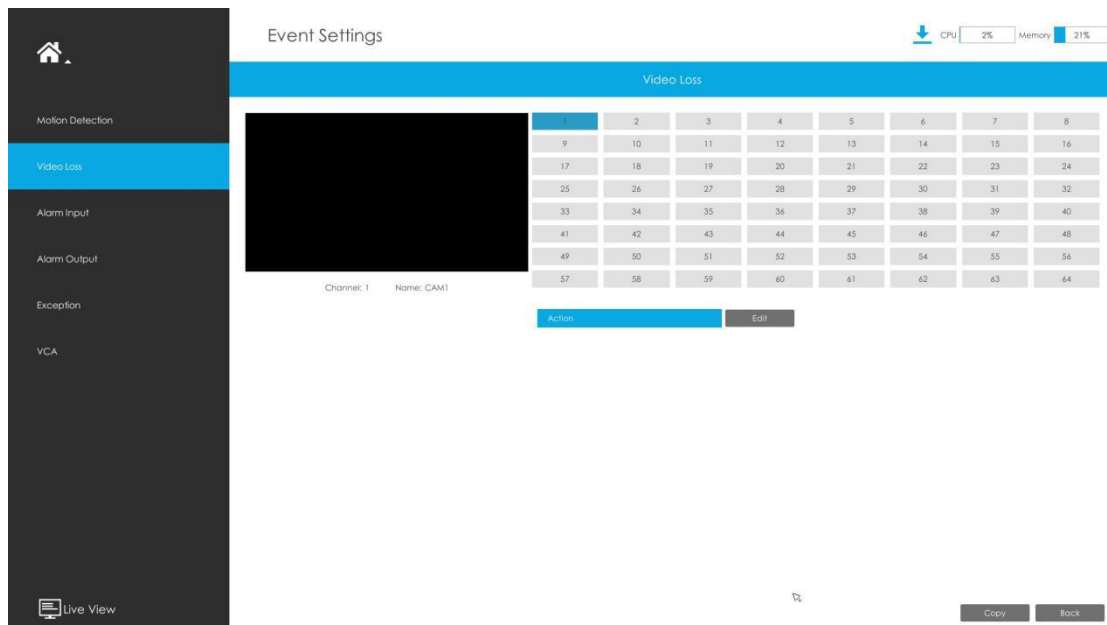
Make sure you have set correct schedule for record and snapshot before setting the Event Action.

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



3.8.2 Video Loss

Step 1. Select a channel.



Step 2. Set Action for video loss by clicking **Edit**.

Audible Warning: NVR will trigger an audible warning when the event 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.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

The screenshot shows the 'Action' configuration window. On the left, a sidebar lists various actions, with 'Audible Warning' selected. The main area features a time table with columns for days (Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Holiday) and hours (0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24). Above the table are buttons for 'Clear All', 'Select All', and 'Edit'. Below the table are radio buttons for 'Audible' and 'Erase', a dropdown menu for 'Audio File' (set to 'Default'), and a dropdown menu for 'Triggered Interval' (set to '20s'). At the bottom right, there are 'OK' and 'Cancel' buttons.

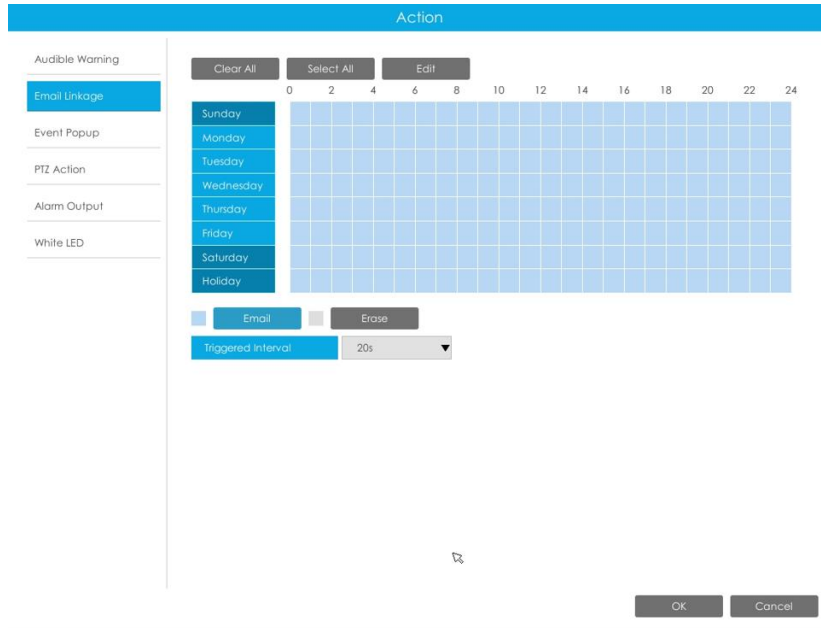
Email Linkage: NVR will send an email to the address you set before.

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.

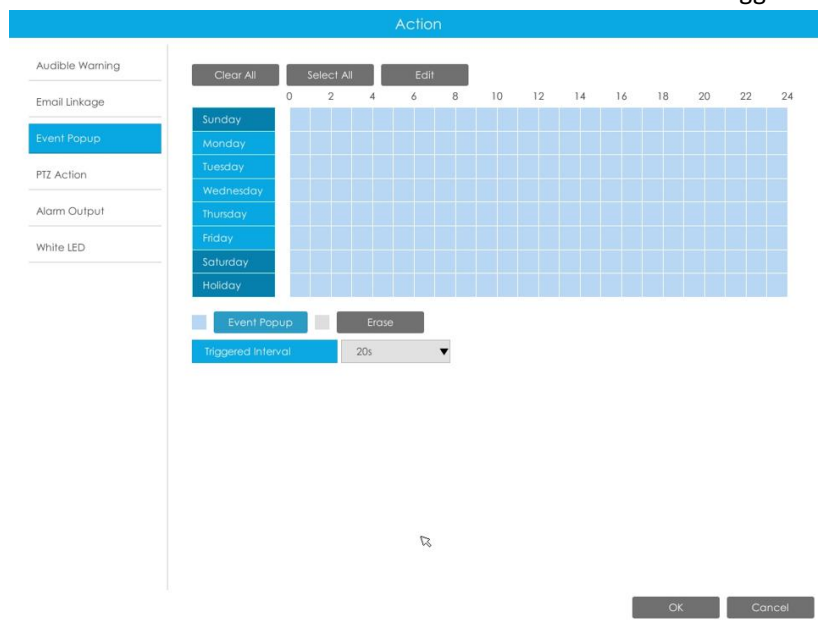


Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And you can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

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.



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 .

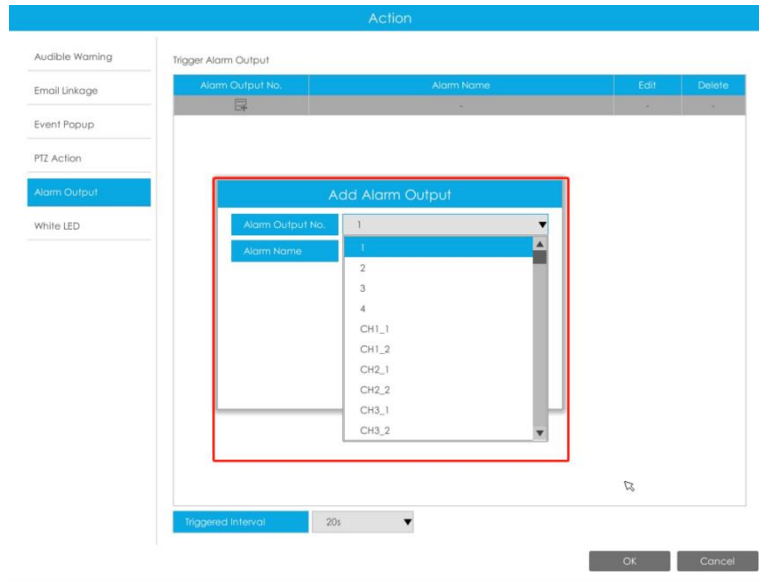
Channel: Select the channel which supports this function.

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.



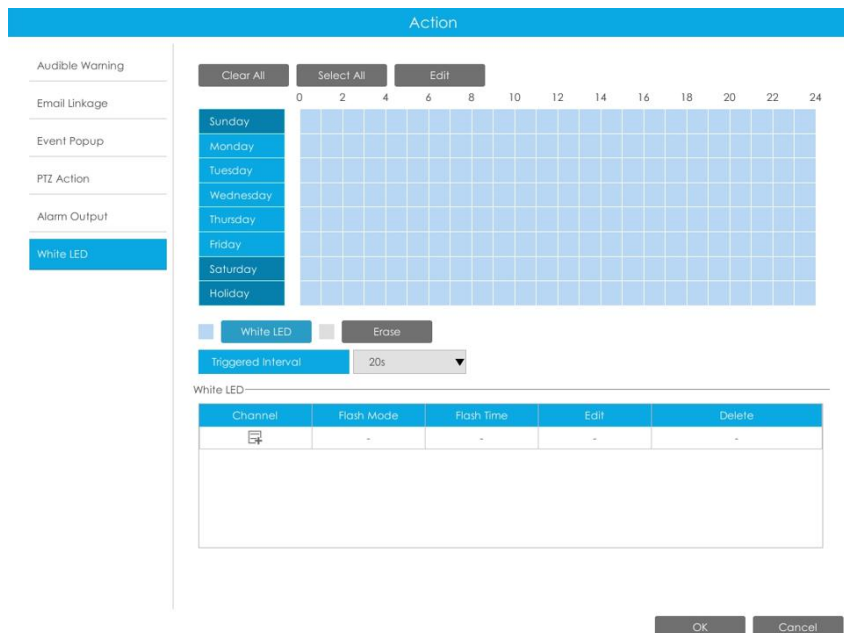
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, 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.

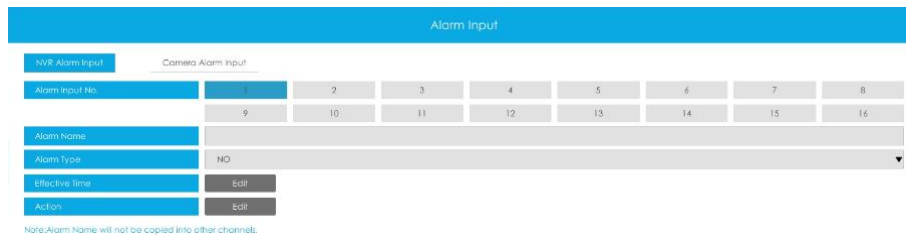
Step 3. Click  and  to copy the same configuration to other channels.

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.



Alarm Input

NVR Alarm Input Camera Alarm Input

Alarm Input No.	1	2	3	4	5	6	7	8
	9	10	11	12	13	14	15	16

Alarm Name

Alarm Type: NO

Effective Time: Edit

Action: Edit

Note: Alarm Name will not be copied 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 warning when alarm is triggered.

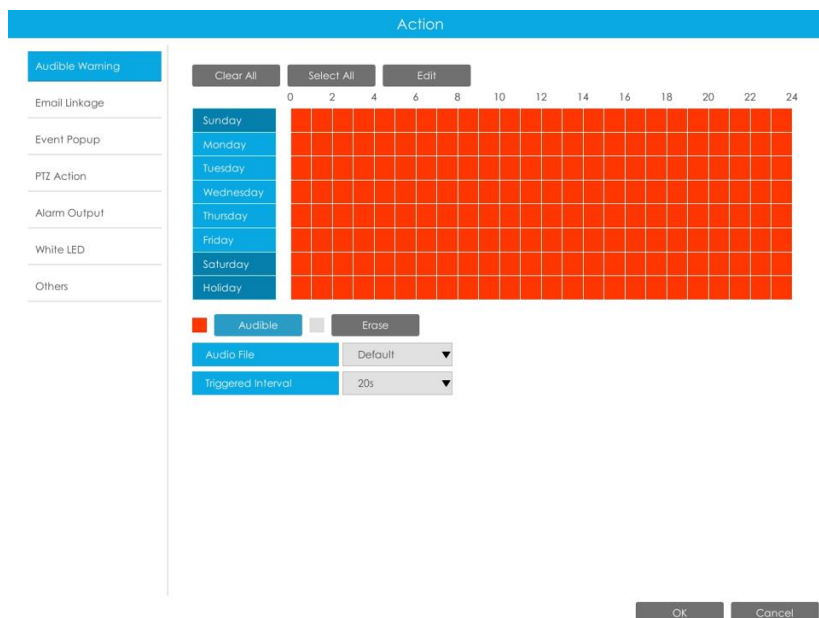
User can set effective schedule as following two ways:

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  or  to set or clear all time settings.




② Click  to edit effective time manually.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.



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



Action



  

	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													



Audio File: Default

Triggered Interval: 20s

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  or  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.

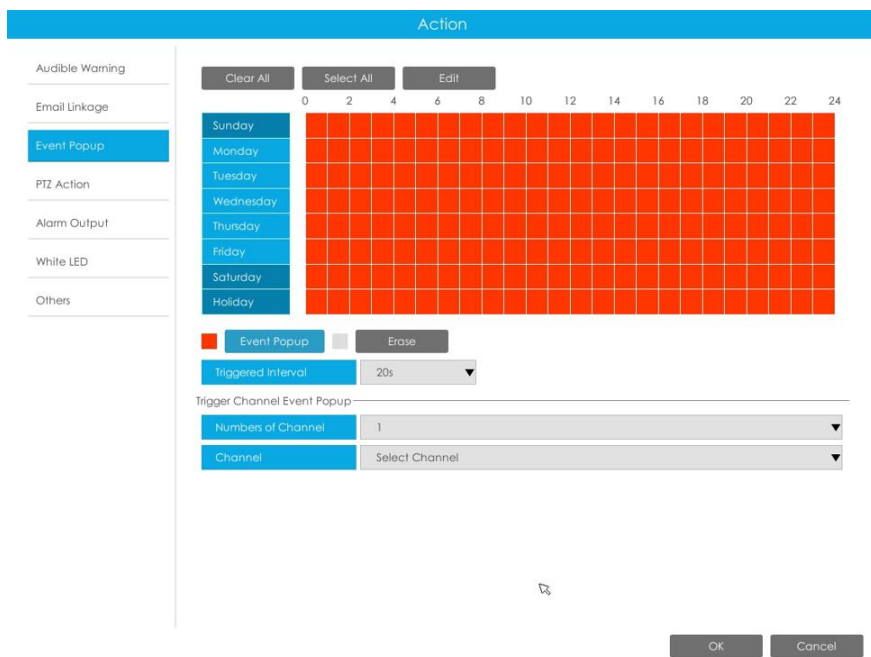
Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

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 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.



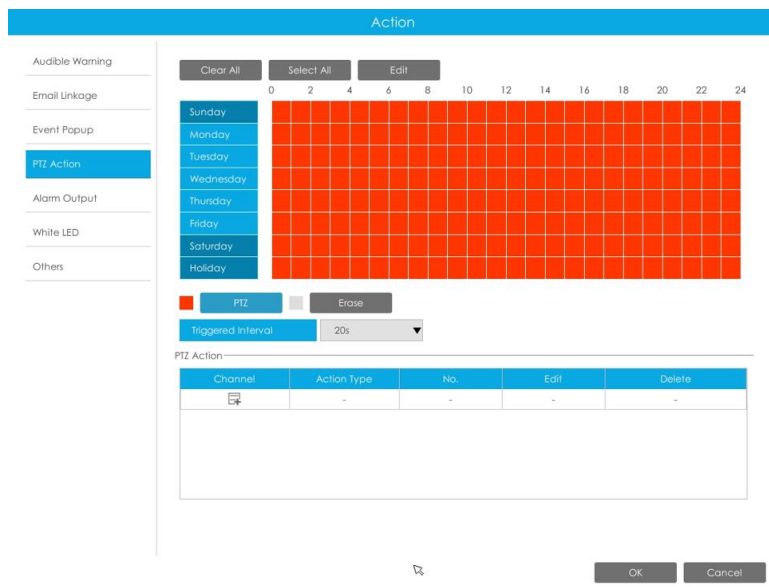
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol**.

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.

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  .



The 'Add PTZ Action' dialog box contains three dropdown menus: 'Channel' set to 1, 'Action Type' set to Preset, and 'No.' set to 1. At the bottom are 'OK' and 'Cancel' buttons.

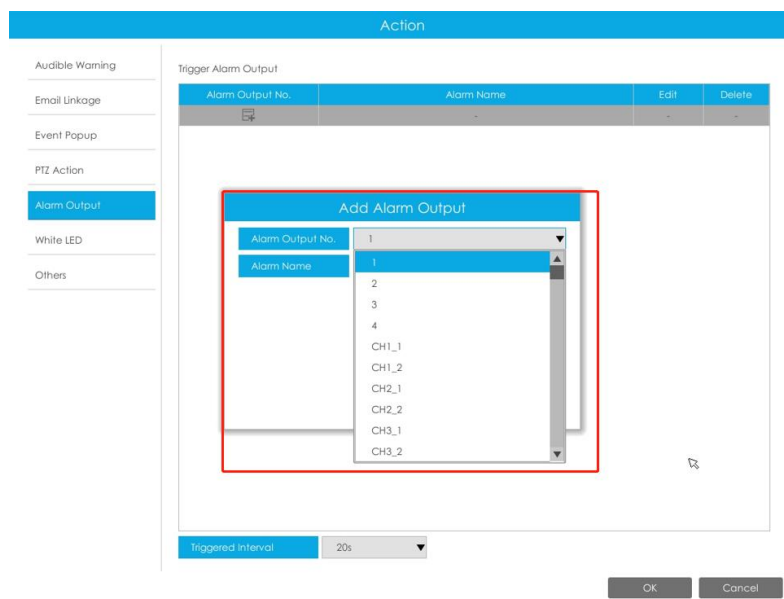
Channel: Select the channel which supports this function.

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.



The 'Action' configuration interface shows a sidebar with 'Alarm Output' selected. The main area displays a table for 'Trigger Alarm Output' with columns for 'Alarm Output No.', 'Alarm Name', 'Edit', and 'Delete'. An 'Add Alarm Output' dialog box is overlaid, showing a list of alarm outputs: 1, 2, 3, 4, CH1_1, CH1_2, CH2_1, CH2_2, CH3_1, and CH3_2. The 'Triggered Interval' is set to 20s. 'OK' and 'Cancel' buttons are at the bottom right.

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.

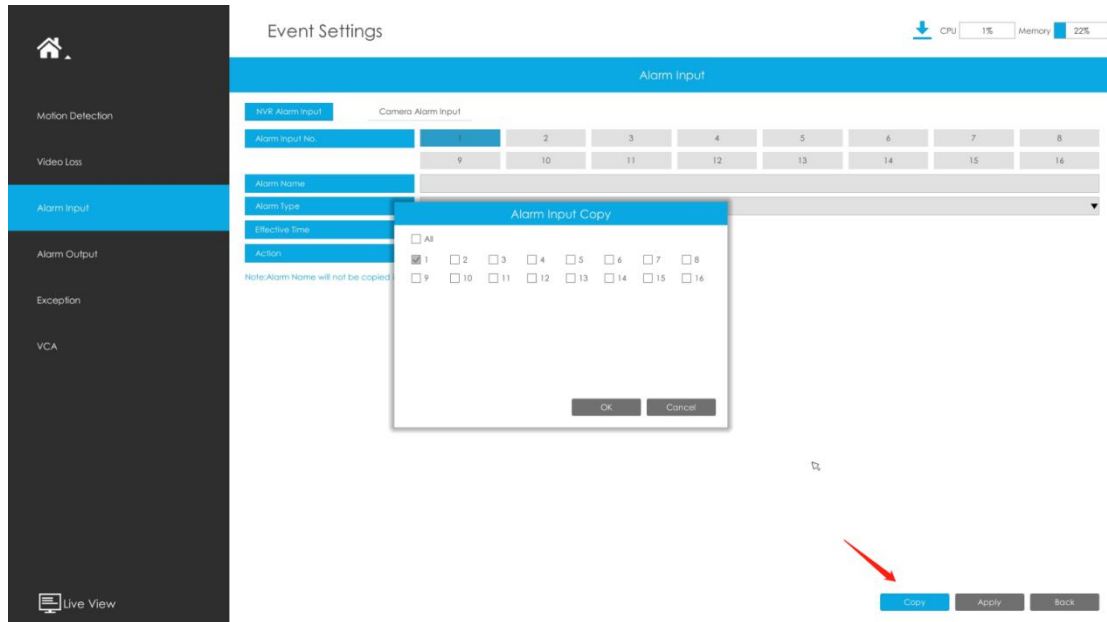
Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

Others: Trigger 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.

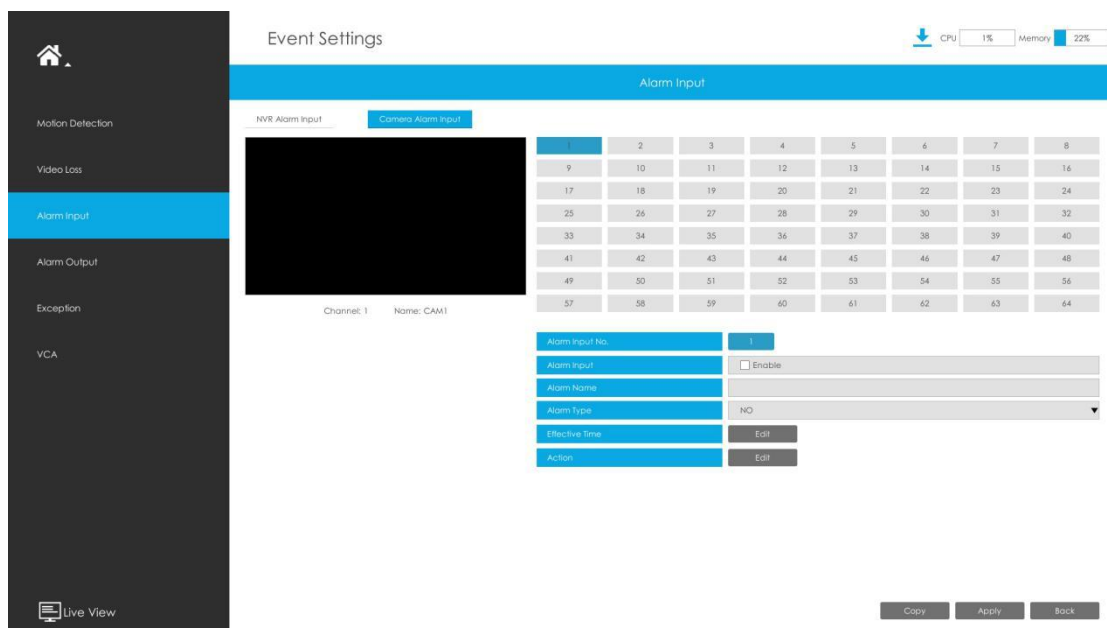
Step 4: Copy alarm input settings to other input interface by clicking



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



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

Alarm Input: Click "Enable" to enable alarm input of this channel.

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 warning 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  or  to set or clear all time settings.



② Click  to edit effective time manually.


Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

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

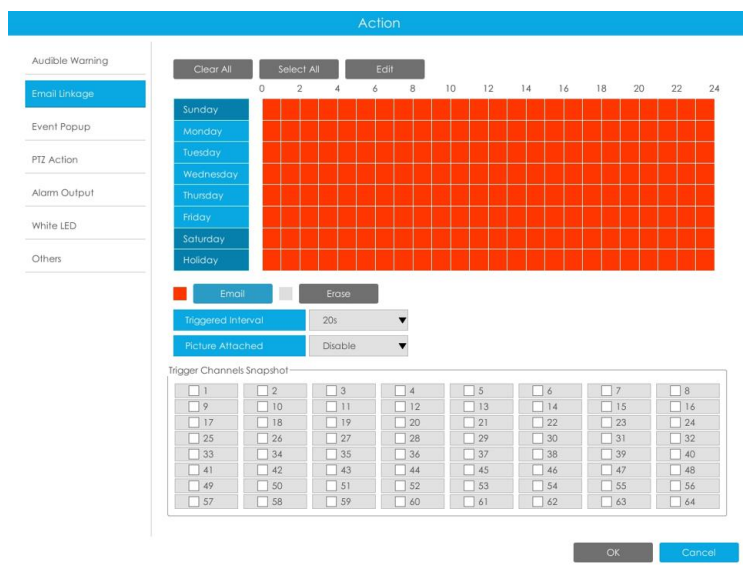
User can set effective schedule as following two ways:

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  or  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.



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.

The screenshot shows the 'Action' configuration window. On the left is a sidebar with options: Audible Warning, Email Linkage, Event Popup, PTZ Action (selected), Alarm Output, White LED, and Others. The main area features a calendar grid for PTZ Action with days of the week on the y-axis and hours (0-24) on the x-axis. A red grid indicates the active time range. Below the calendar are controls for PTZ (checked) and Erase (unchecked), and a 'Triggered Interval' dropdown set to 20s. At the bottom is a table for PTZ Action entries.

Channel	Action Type	No.	Edit	Delete
	-	-	-	-

And you can add PTZ Action by clicking .

The 'Add PTZ Action' dialog box contains three dropdown menus: Channel (set to 1), Action Type (set to Preset), and No. (set to 1). At the bottom are OK and Cancel buttons.

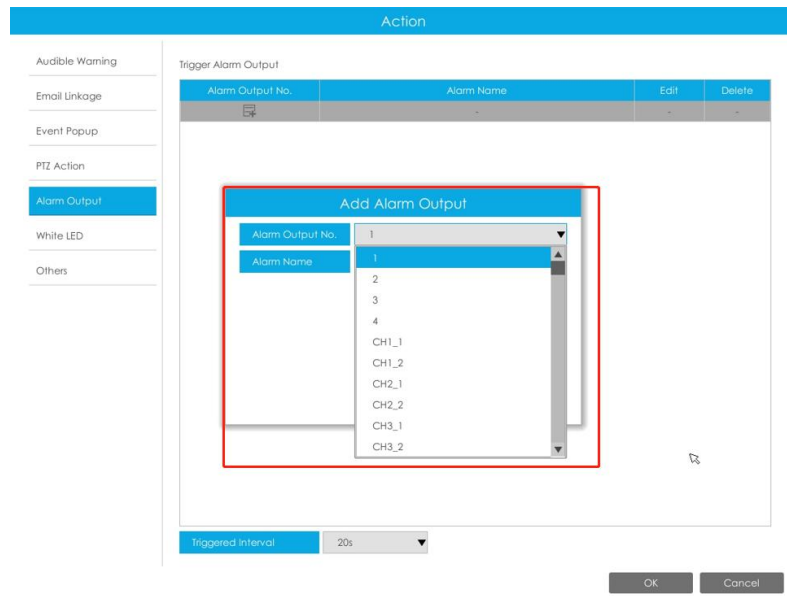
Channel: Select the channel which supports this function.

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.



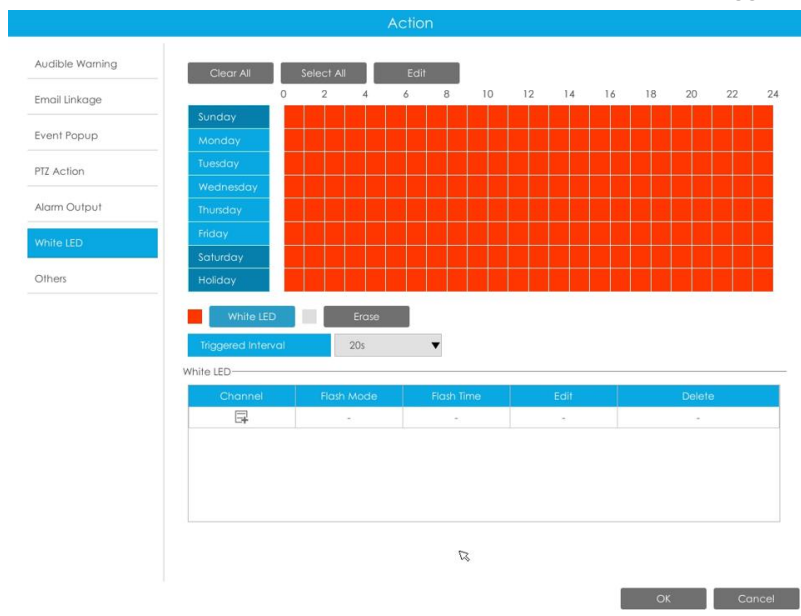
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, 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 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 3: Copy alarm input settings to other input interface by clicking

Copy

The screenshot displays the 'Event Settings' page with the 'Alarm Input' section active. A 'Channel Copy' dialog box is overlaid, showing a grid of checkboxes for channels 1 through 64. The 'Action' button is highlighted with a red arrow. The background interface includes a sidebar with navigation options like 'Motion Detection', 'Video Loss', 'Alarm Input', 'Alarm Output', 'Exception', and 'VCA'. The top right shows system status: CPU 1% and Memory 22%.

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.

The screenshot displays the 'Event Settings' page with the 'Alarm Output' section active. The 'NVR Alarm Output' tab is selected. The 'Alarm Output' section includes fields for 'Alarm Output No.', 'Alarm Name', 'Alarm Type', 'Delay', and 'Effective Time'. The 'Alarm Type' is set to 'NO' and 'Delay' is set to 'S'. The 'Effective Time' field has an 'Edit' button. A note at the bottom states: 'Note: Alarm Name will not be copied into other channels.' The top right shows system status: CPU 2% and Memory 22%.

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

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.

Step 2. Set effective time for alarm output by clicking corresponding .

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  or  to set or clear all time settings.

② Click  to edit record effective time manually.

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.

The screenshot shows the 'Event Settings' page with 'Alarm Output' selected. The 'Camera Alarm Output' tab is active, displaying a grid of 64 channels (1-64) and a configuration form for the selected channel (Channel: 1, Name: CAM1). The configuration form includes fields for Alarm Output No., Alarm Name, Alarm Type (set to NC), Delay (set to 5s), and Effective Time (with an Edit button). A 'Copy' button is visible at the bottom right of the interface.

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.

Step 2. Set effective time for Alarm Output by clicking corresponding .

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  or  to set or clear all time settings.

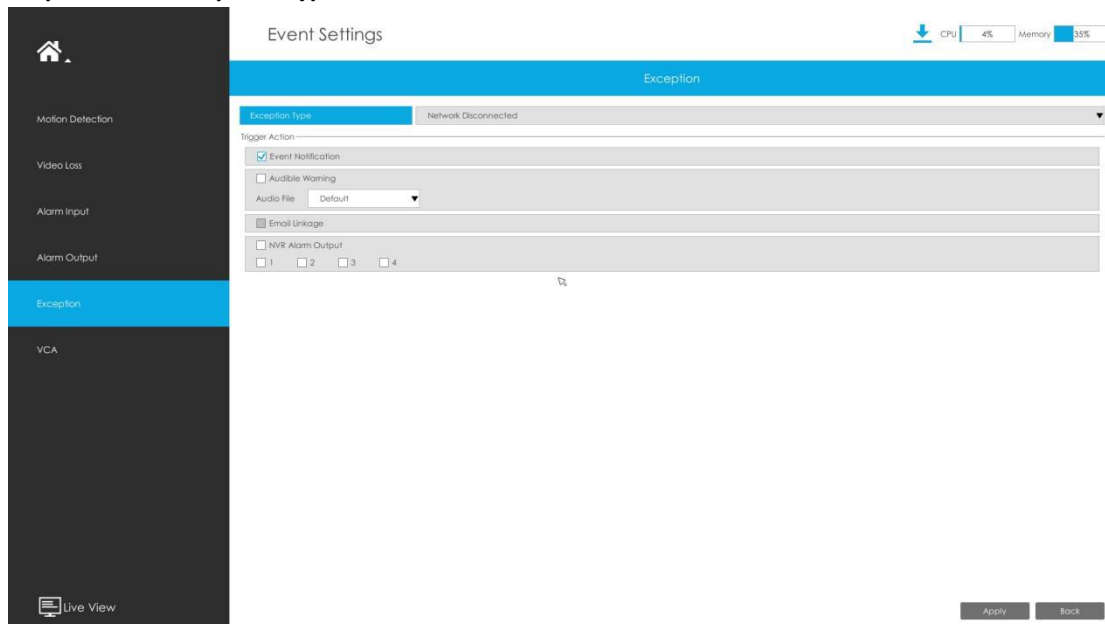
② Click  to edit record effective time manually.

The 'Effective Time' interface shows a grid for setting the alarm's effective time. The grid has 24 columns representing hours (0-24) and 7 rows representing days of the week (Sunday to Holiday). A legend at the bottom indicates that orange squares represent 'Effective Time' and grey squares represent 'Erase'. Buttons for 'Clear All', 'Select All', and 'Edit' are at the top, and 'OK' and 'Cancel' are at the bottom.

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

3.8.5 Exception

Step1. Select Exception Type.



Network Disconnected: Loss of network.

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

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

Disk Error: Failed to recognize HDD.

Disk Uninitialized: Disk is uninitialized.

No Disk: There is no storage device.

Step2. Select Action includes Event Notification, Audible Warning, Email Linkage and Alarm Output.

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

Audible Warning: NVR will trigger an audible warning. You can select the audio file as needed for audible warning. The default is an audible beep.

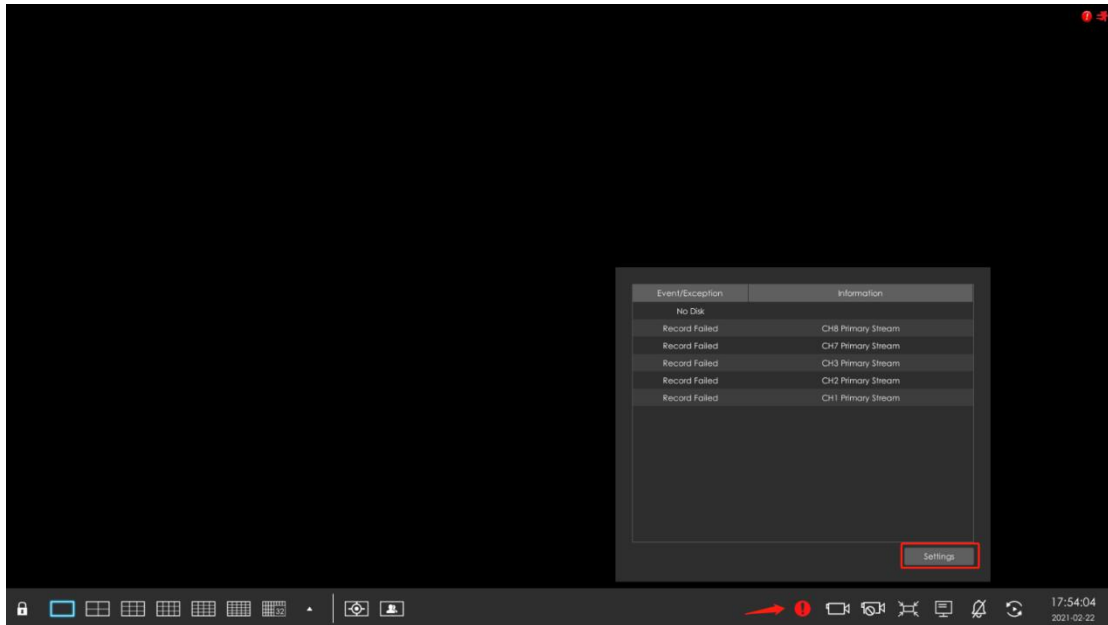
Email Linkage: An alarm Email will be sent if an alarm is triggered.

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.

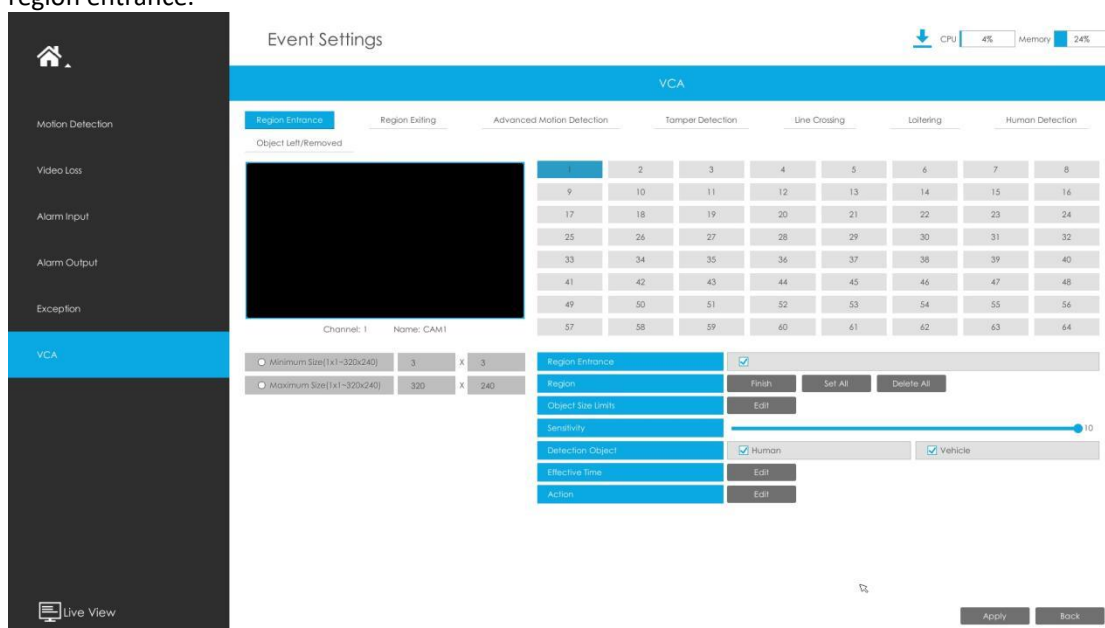


3.8.6 VCA

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

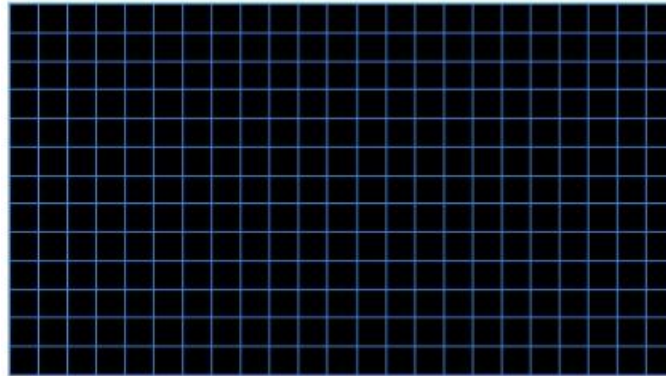
Region entrance helps to protect a specific area from potential threat of suspicious person's or object's entrance. An alarm will be triggered when objects enter the selected regions by enabling region entrance.



Step 1. Select channel and enable Region Entrance.

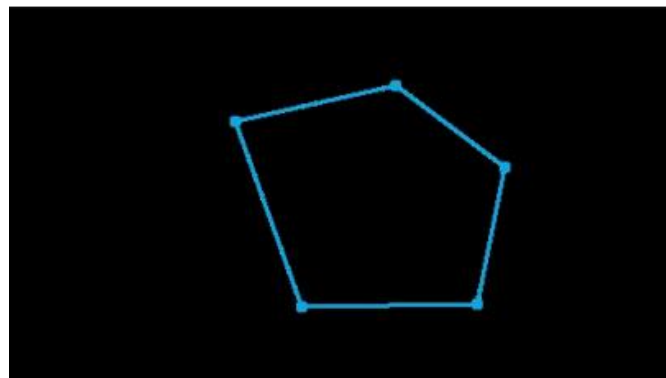
Region Entrance **Step 2. Set entrance detection region.**

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



Channel: 4 Name: CAM4

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



Channel: 2 Name: CAM2

Step 3. Set the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking button.

<input type="radio"/> Minimum Size(1x1~320x240)	3	X	3
<input type="radio"/> 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 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.

Step 4. Set Sensitivity.

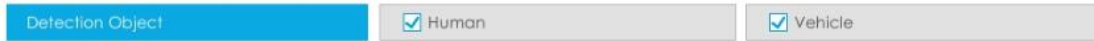
The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.

Sensitivity

5

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-CXXX-XXC, which supports the human/vehicle detection object.

Step 6. 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

 or  to set or clear all time settings.

**Step 7. Set Action for region entrance alarm by clicking** 

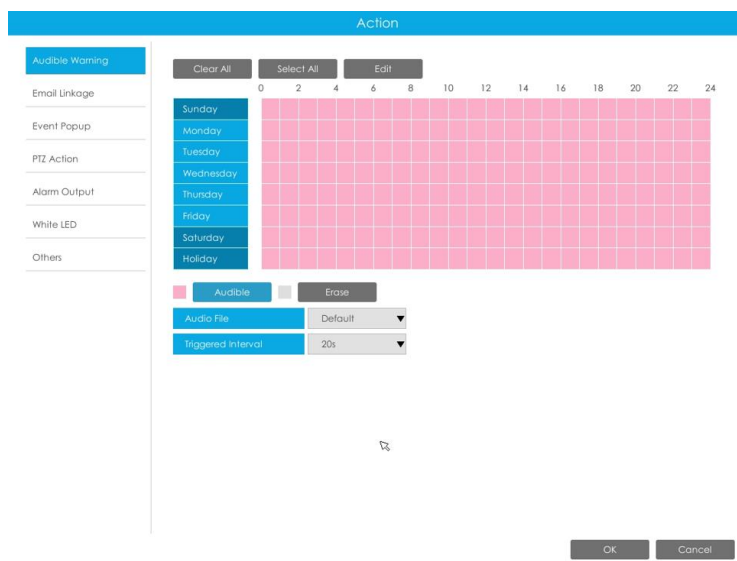
Audible Warning: NVR will trigger an audible warning when region entrance is detected.

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  or  to set or clear all time settings.
- ② Click  to edit record effective time manually.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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



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

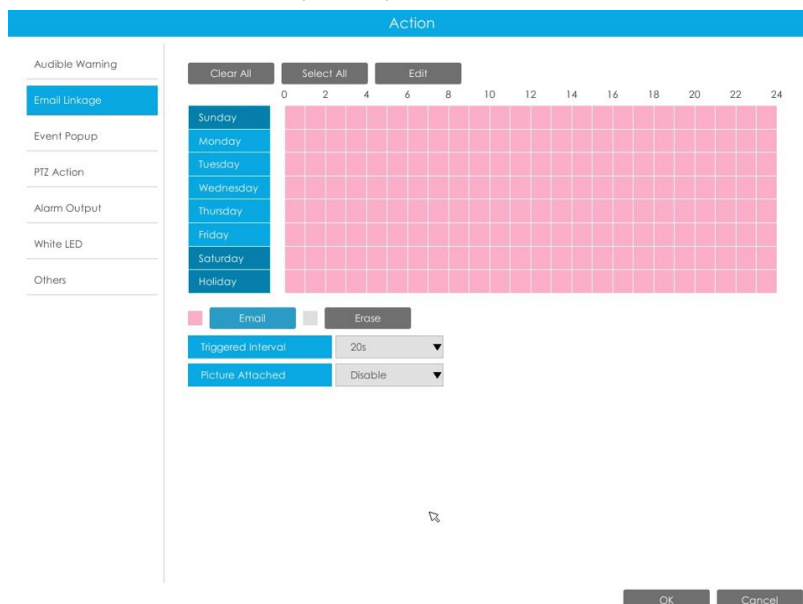
The user can set effective schedule as following two ways:

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.

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.

The 'Action' configuration window includes a sidebar with the following options: Audible Warning, Email Linkage, Event Popup, **PTZ Action**, Alarm Output, White LED, and Others. The main area features a grid for scheduling PTZ actions across days of the week (Sunday to Holiday) and time intervals (0 to 24). A 'Triggered Interval' dropdown is set to 20s. Below the grid is a table for existing PTZ actions:

Channel	Action Type	No.	Edit	Delete
	-	-	-	-

Buttons for 'Clear All', 'Select All', and 'Edit' are located at the top of the grid. A 'PTZ' checkbox and an 'Erase' button are positioned below the grid. 'OK' and 'Cancel' buttons are at the bottom right.

And you can add PTZ Action by clicking  .

The 'Add PTZ Action' dialog box contains the following fields:

- Channel:** 1
- Action Type:** Preset
- No.:** 1

'OK' and 'Cancel' buttons are located at the bottom of the dialog.

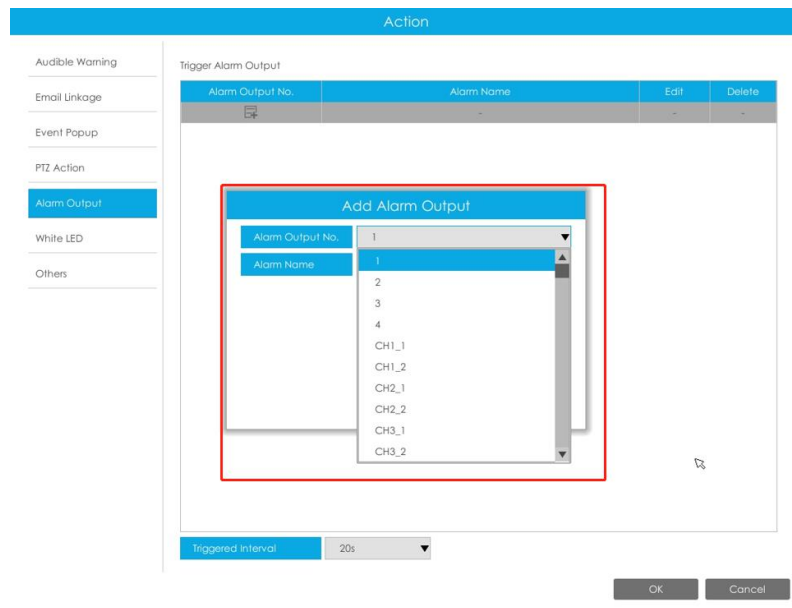
Channel: Select the channel which supports this function.

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.



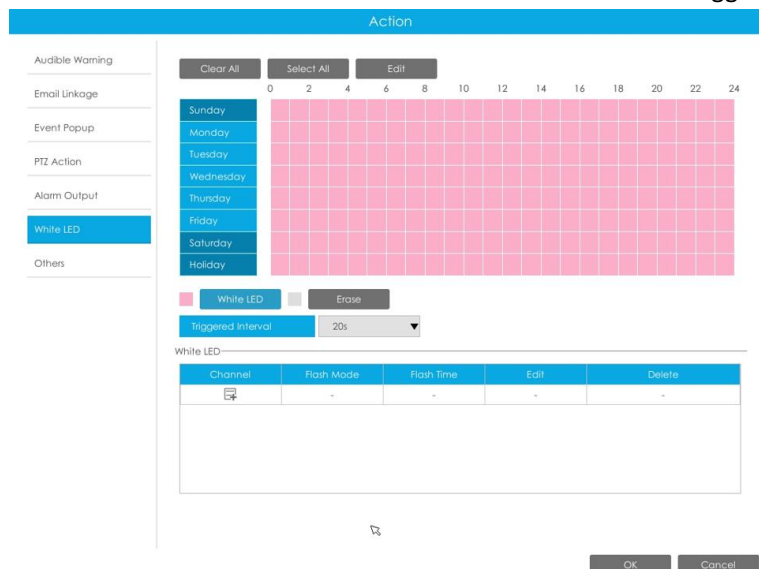
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, 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 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.

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.

Event Settings

CPU 3% Memory 24%

VCA

Region Entrance Region Exiting Advanced Motion Detection Tamper Detection Line Crossing Loitering Human Detection

Object Left/Removed

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

Channel: 1 Name: CAM1

Minimum Size(x1~320x240) 3 x 3

Maximum Size(x1~320x240) 320 x 240

Region Exiting

Region

Object Size Limits

Sensitivity

Detection Object Human Vehicle

Effective Time

Action

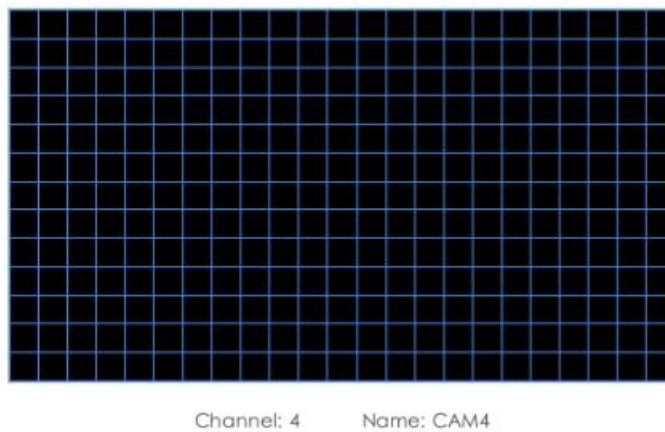
Apply Back

Step 1. Select channel and enable Region Exiting.

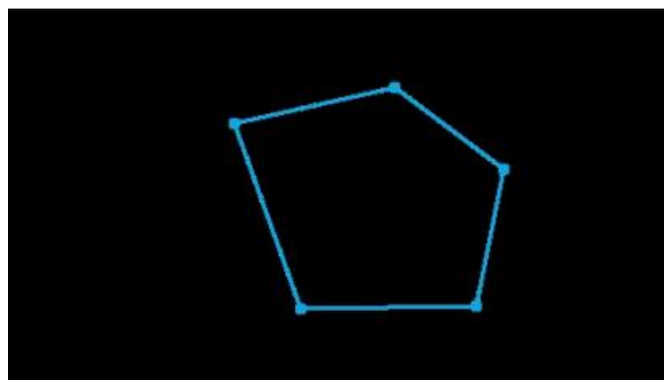
Region Exiting

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 edit the area by clicking button. And you can set or clear all set region by directly clicking or .




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



Channel: 2 Name: CAM2

Step 3. Set the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking  button.

<input type="radio"/> Minimum Size(1x1~320x240)	3	X	3
<input type="radio"/> 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 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.

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. 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	<input checked="" type="checkbox"/> Human	<input checked="" type="checkbox"/> 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 exiting by clicking .

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



 or  to set or clear all time settings.




Step 7. Set Action for region exiting alarm by clicking .

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

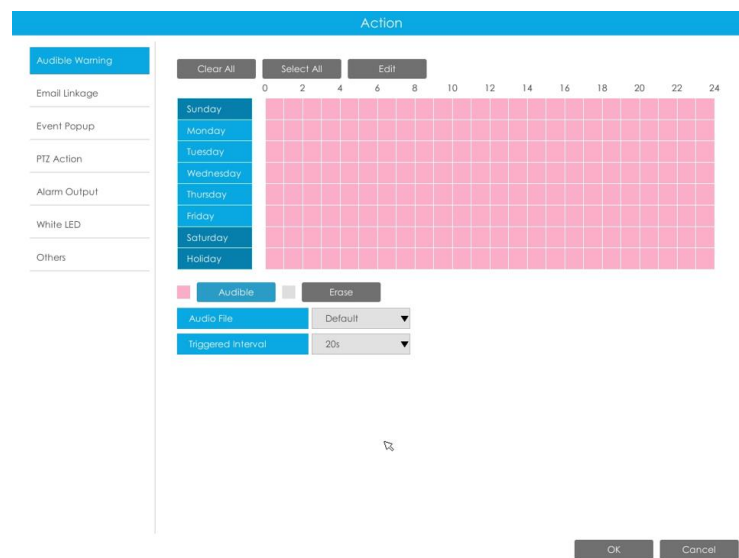
The user can set effective schedule as following two ways:

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

② Click  to edit record effective time manually.



Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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  or  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.

The screenshot shows the 'Action' configuration window. On the left, a sidebar lists various actions: Audible Warning, Email Linkage, Event Pop-up (selected), PTZ Action, Alarm Output, White LED, and Others. The main area has a header with 'Clear All', 'Select All', and 'Edit' buttons. Below is a 24-hour grid with rows for Sunday through Holiday. Underneath the grid are two rows of controls: a row with 'Email' (checked) and 'Erase' buttons, and a row with 'Triggered Interval' (set to 20s) and 'Picture Attached' (set to Disable) dropdown menus. At the bottom right are 'OK' and 'Cancel' buttons.

Event Pop-up: 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 Pop-up Duration Time'. Then triggered channel will be shown one by one as duration time.

- ① Select the operation type, Event Pop-up 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.

This screenshot is identical in layout to the previous one, but the 'Event Pop-up' option is selected in the left sidebar. In the control row below the grid, the 'Event Pop-up' checkbox is checked, and the 'Erase' button is visible. The 'Triggered Interval' is still set to 20s and 'Picture Attached' is set to Disable.

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.

The screenshot shows the 'Action' configuration page. On the left is a sidebar with options: Audible Warning, Email Linkage, Event Popup, **PTZ Action**, Alarm Output, White LED, and Others. The main area features a time table with days of the week (Sunday to Holiday) on the y-axis and hours (0 to 24) on the x-axis. Above the table are buttons for 'Clear All', 'Select All', and 'Edit'. Below the table are radio buttons for 'PTZ' (selected) and 'Erase', and a 'Triggered Interval' dropdown set to '20s'. At the bottom, there is a table for 'PTZ Action' with columns: Channel, Action Type, No., Edit, and Delete. The table currently contains one row with a plus icon in the Channel column. 'OK' and 'Cancel' buttons are at the bottom right.

And you can add PTZ Action by clicking  .

The 'Add PTZ Action' dialog box has a blue header. It contains three dropdown menus: 'Channel' with value '1', 'Action Type' with value 'Preset', and 'No.' with value '1'. At the bottom are 'OK' and 'Cancel' buttons.

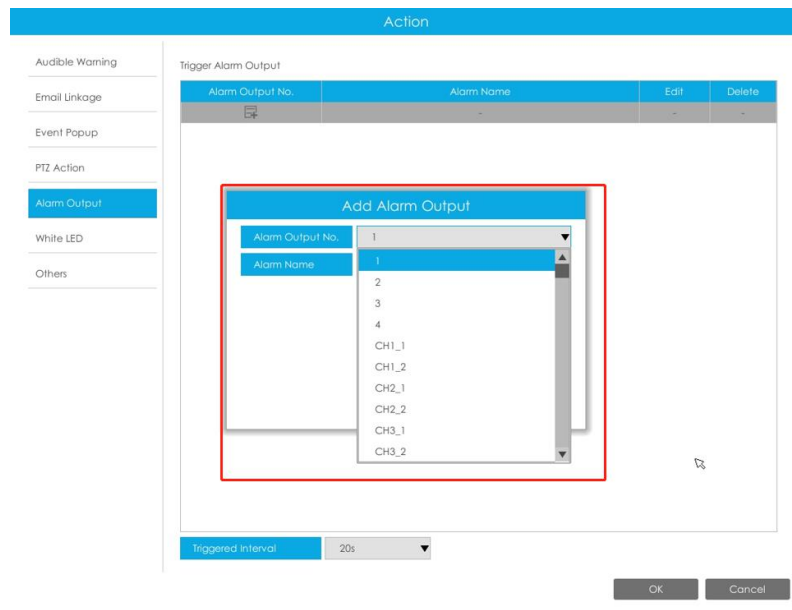
Channel: Select the channel which supports this function.

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.



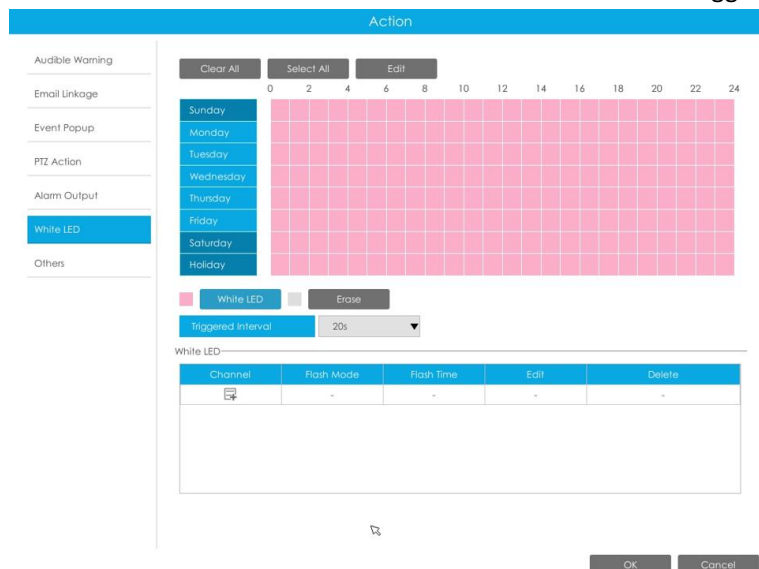
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, 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 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.

Advanced Motion Detection

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

Step 1. Select channel and enable Advanced Motion Detection.

Event Settings

CPU 3% Memory 24%

VCA

Region Entrance Region Exiting **Advanced Motion Detection** Tamper Detection Line Crossing Loitering Human Detection

Object Left/Removed

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

Channel: 1 Name: CAM1

Minimum Size(x1~x2)y(1~y2) 3 x 3

Maximum Size(x1~x2)y(1~y2) 320 x 240

Advanced Motion Detection

Region Finish Set All Delete All

Object Size Limits Edit

Sensitivity 10

Detection Object Human Vehicle

Ignore Short-Lived Motion Off

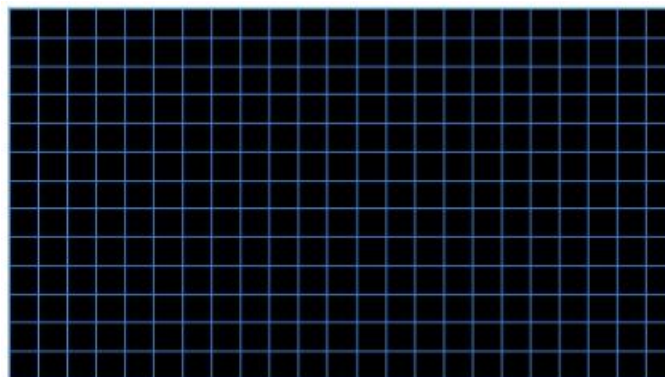
Effective Time Edit

Action Edit

Apply Back

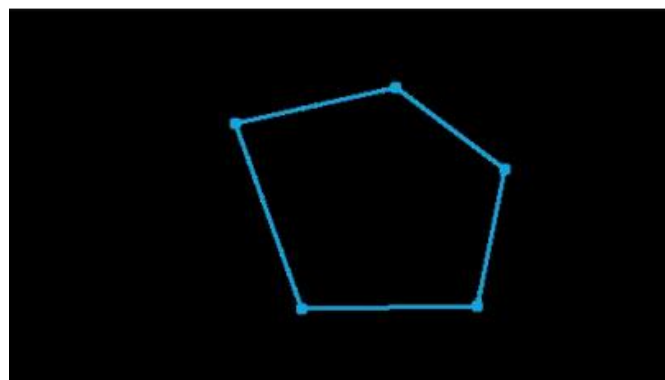
Step 2. Set advanced motion detection region.

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 edit the area by clicking **Edit** button. And you can set or clear all set region by directly clicking **Set All** or **Clear All**.




Channel: 4 Name: CAM4

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



Channel: 2 Name: CAM2

Step 3. Set the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking  button.

<input type="radio"/> Minimum Size(1x1~320x240)	3	X	3
<input type="radio"/> 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 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.

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.

Sensitivity  8

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-CXXX-XXC, which supports the human/vehicle detection object.

Step 6. 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.

Ignore Short-Lived Motion	Off
Effective Time	Off
Action	1s 2s 3s 4s 5s

Note:

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



 or  to set or clear all time settings.




Step 8. Set Action for advanced motion detection alarm by clicking .

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

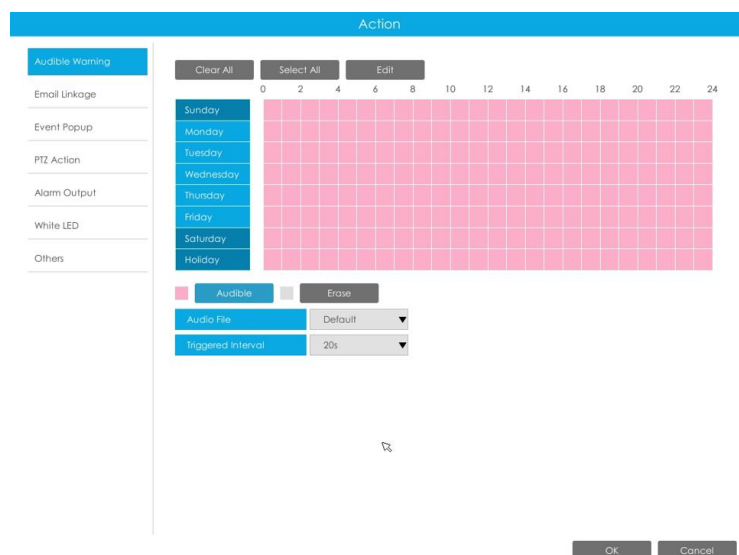
The user can set effective schedule as following two ways:

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  or  to set or clear all time settings.

② Click  to edit record effective time manually.



Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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  or  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.

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 .

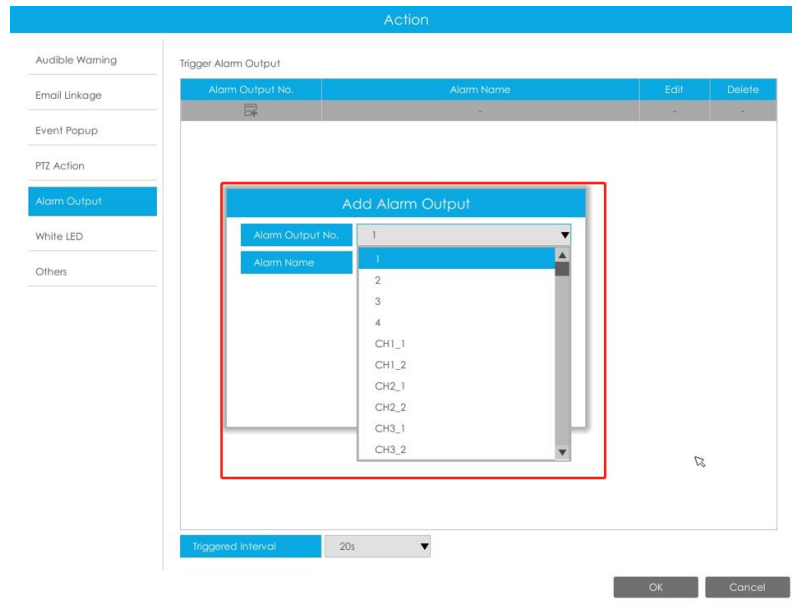
Channel: Select the channel which supports this function.

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.



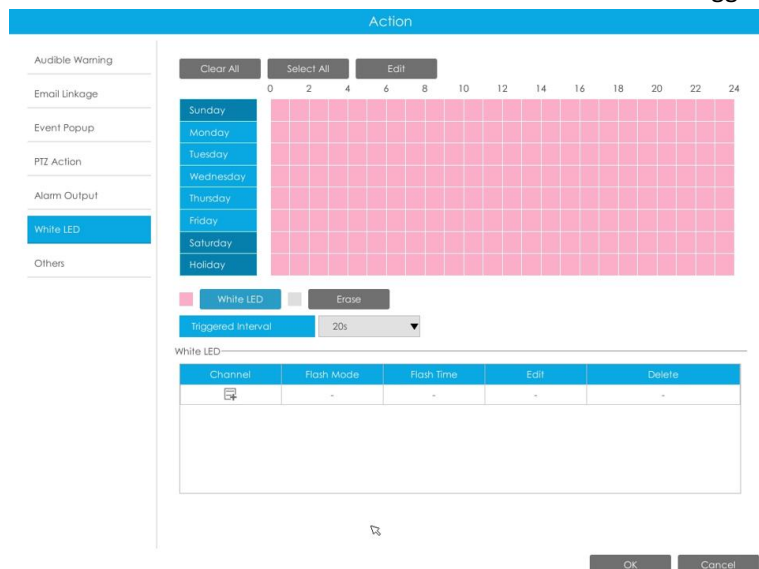
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, 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 .

Add White LED

Channel: 1

Flash Mode: Twinkle

Flash Time: 3 Reset

OK Cancel

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.

Action

Audible Warning

Email Linkage

Event Popup

PTZ Action

Alarm Output

White LED

Others

Trigger Channels Record

All

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

Trigger Channels Snapshot

All

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

Note: This page's configuration will not be copied into other channels.

OK Cancel

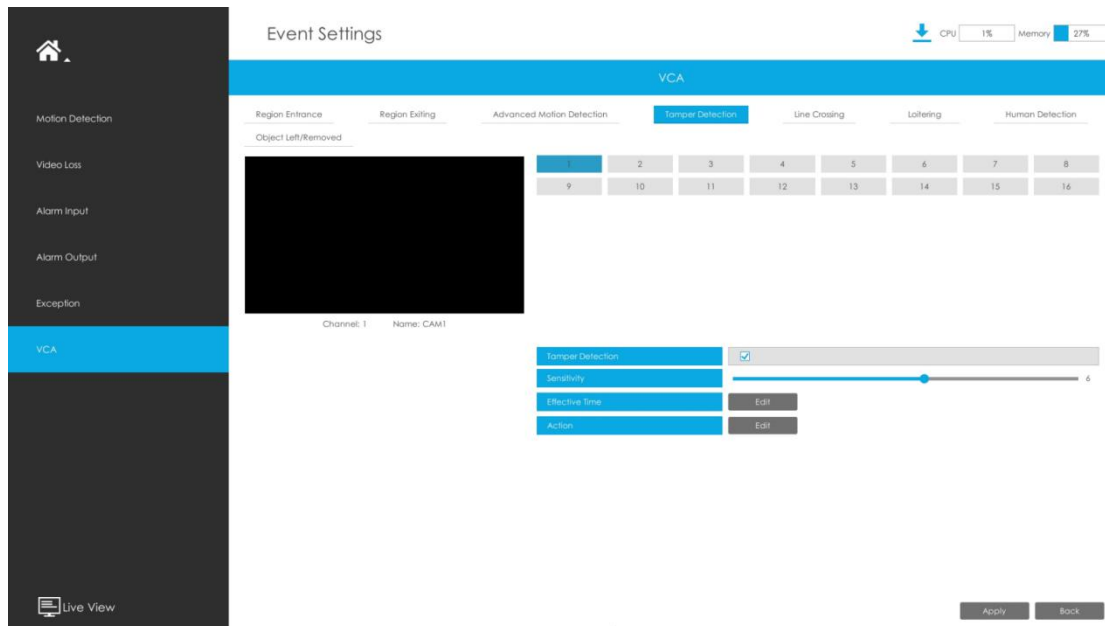
Note:

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

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.



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.



Step 3. Set Effective Time of tamper detection by clicking

Edit

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

Select All

or

Clear All

to set or clear all time settings.



Step 4. Set Action for tamper detection alarm by clicking

Edit

Audible Warning: NVR will trigger an audible warning when tamper detection 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.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

The screenshot shows the 'Action' configuration window. On the left, a sidebar lists various actions: Audible Warning, Email Linkage, Event Popup, PTZ Action, Alarm Output, White LED, and Others. The 'Audible Warning' action is selected. The main area features a 24-hour time grid with days of the week listed on the left. Above the grid are buttons for 'Clear All', 'Select All', and 'Edit'. Below the grid are controls for 'Audible' (checked), 'Erase', 'Audio File' (Default), and 'Triggered Interval' (20s). At the bottom right, there are 'OK' and 'Cancel' buttons.

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.

The screenshot shows the 'Action' configuration window for 'Email Linkage'. The sidebar on the left lists: Audible Warning, Email Linkage (selected), Event Popup, PTZ Action, Alarm Output, White LED, and Others. The main area has a 24-hour time grid with days of the week. Above the grid are 'Clear All', 'Select All', and 'Edit' buttons. Below the grid are controls for 'Email' (checked), 'Erase', 'Triggered Interval' (20s), and 'Picture Attached' (Disable). 'OK' and 'Cancel' buttons are at the bottom right.

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.

The screenshot shows the 'Action' configuration window. On the left is a sidebar with a list of action types: Audible Warning, Email Linkage, Event Popup (highlighted), PTZ Action, Alarm Output, White LED, and Others. The main area features a time table with days of the week (Sunday to Holiday) on the y-axis and a 24-hour timeline (0 to 24) on the x-axis. A grid of pink squares is overlaid on the time table. Above the grid are buttons for 'Clear All', 'Select All', and 'Edit'. Below the grid are checkboxes for 'Event Popup' and 'Erase', and a 'Triggered Interval' dropdown menu set to '20s'. At the bottom right are 'OK' and 'Cancel' buttons.

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.

Action

Audible Warning

Email Linkage

Event Popup

PTZ Action

Alarm Output

White LED

Others

Clear All
Select All
Edit

	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday													
Monday													
Tuesday													
Wednesday													
Thursday													
Friday													
Saturday													
Holiday													

PTZ
 Erase

Triggered Interval 20s

Channel	Action Type	No.	Edit	Delete
+	-	-	-	-

OK Cancel

And you can add PTZ Action by clicking  .

Add PTZ Action

Channel

1 ▼

Action Type

Preset ▼

No.

1 ▼

OK Cancel

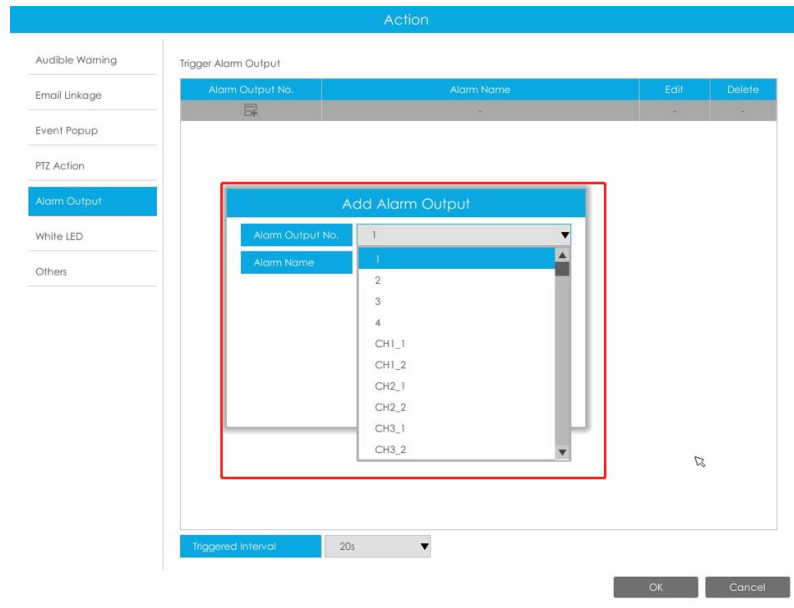
Channel: Select the channel which supports this function.

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.



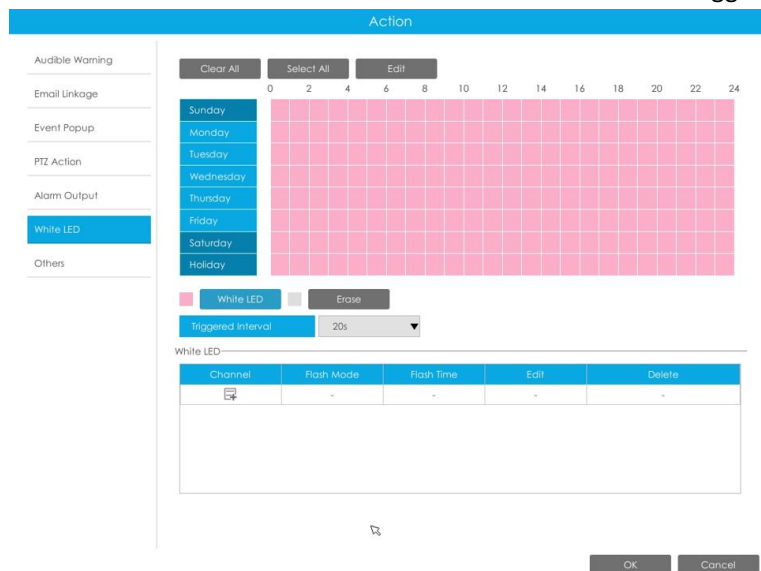
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, 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 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.

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 Settings

CPU 4% Memory 24%

VCA

Region Entrance Region Exiting Advanced Motion Detection Tamper Detection **Line Crossing** Loitering Human Detection

Object Left/Removed

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

Channel: 1 Name: CAM1

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

line 1

Line Crossing

Direction A->B

Line Edit Finish Delete

Object Size Limits Edit

Sensitivity 5

Detection Object Human Vehicle

Effective Time Edit

Action Edit

Apply Back

Step 1. Select channel and enable Line Crossing.

Step 2. Choose detection line number.

Line Crossing

Line 1

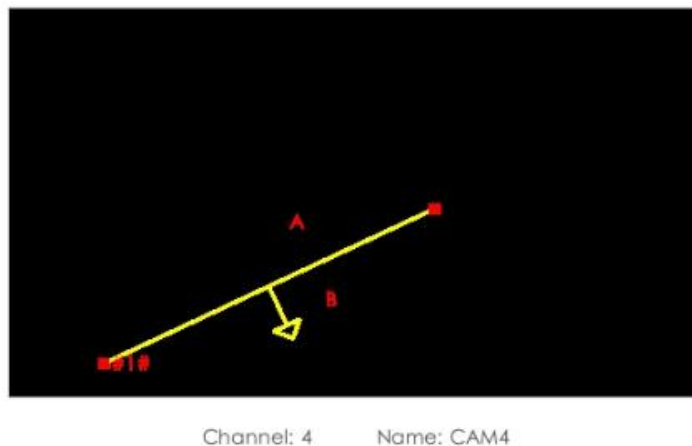
Step 3. Define its direction.

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

Direction A->B

Step 4. Draw detection lines.

And you can edit the line by clicking button.



Note:

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

Step 5. Set the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking button.

<input type="radio"/> Minimum Size(1x1~320x240)	3	X	3
<input type="radio"/> 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.

Step 6. 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.

Sensitivity 

Step 7. 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-CXXX-XXC, which supports the human/vehicle detection object.

Step 8. 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

 or  to set or clear all time settings.

Effective Time

0 2 4 6 8 10 12 14 16 18 20 22 24

Sunday																							
Monday																							
Tuesday																							
Wednesday																							
Thursday																							
Friday																							
Saturday																							
Holiday																							



 

Step 9. Set Action for line crossing alarm by clicking .

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

The user can set effective schedule as following two ways:

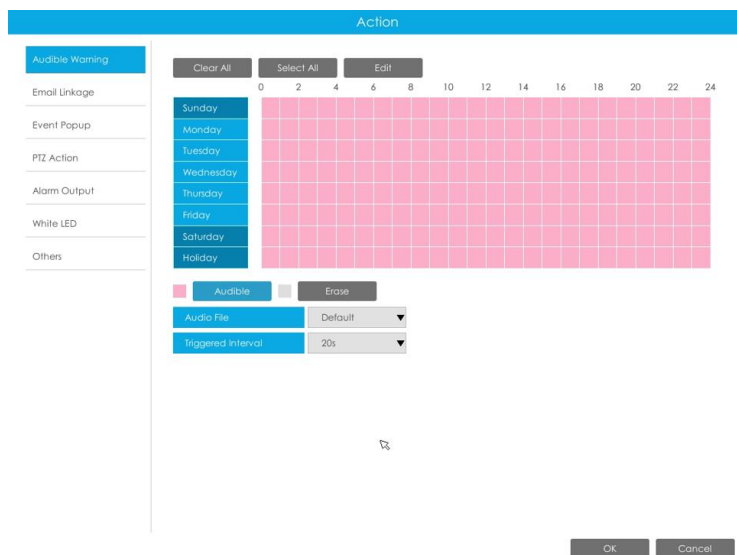
- ① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking  or  to set or clear all

time settings.

- ② Click **Edit** to edit record effective time manually.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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



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

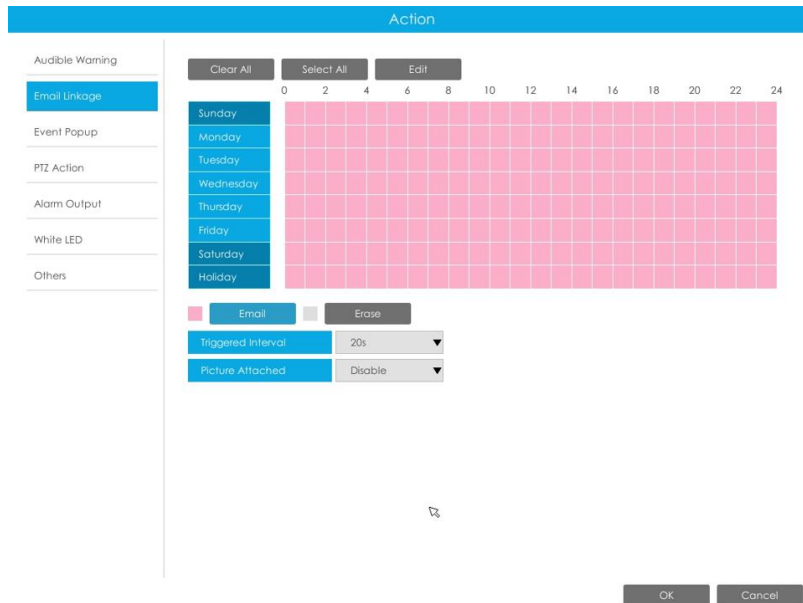
The user can set effective schedule as following two ways:

- 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.

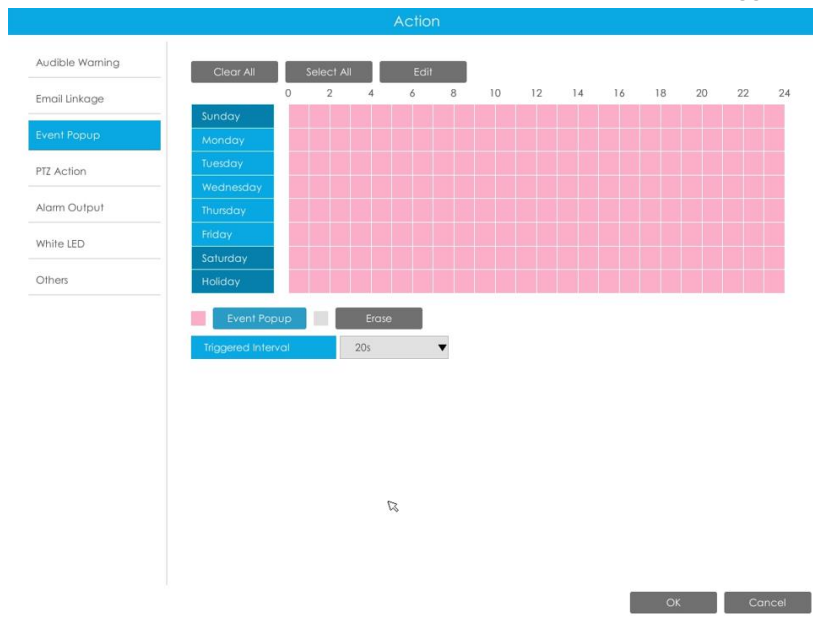


Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And you can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

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.



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.

The screenshot shows the 'Action' configuration window. On the left is a sidebar with options: Audible Warning, Email Linkage, Event Popup, **PTZ Action**, Alarm Output, White LED, and Others. The main area features a calendar grid with days of the week (Sunday to Holiday) and hours (0 to 24). Above the grid are buttons for 'Clear All', 'Select All', and 'Edit'. Below the grid are 'PTZ' and 'Erase' buttons, and a 'Triggered Interval' dropdown set to '20s'. At the bottom, there is a table for 'PTZ Action' with columns: Channel, Action Type, No., Edit, and Delete. The table currently contains one row with dashes in the Action Type, No., Edit, and Delete columns. 'OK' and 'Cancel' buttons are at the bottom right.

And you can add PTZ Action by clicking .

The 'Add PTZ Action' dialog box has a blue header. It contains three dropdown menus: 'Channel' with value '1', 'Action Type' with value 'Preset', and 'No.' with value '1'. At the bottom are 'OK' and 'Cancel' buttons.

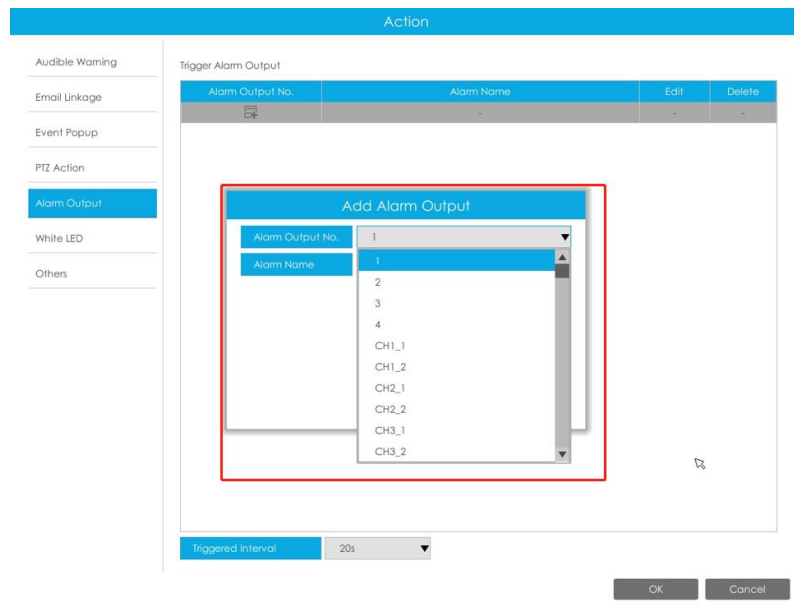
Channel: Select the channel which supports this function.

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.



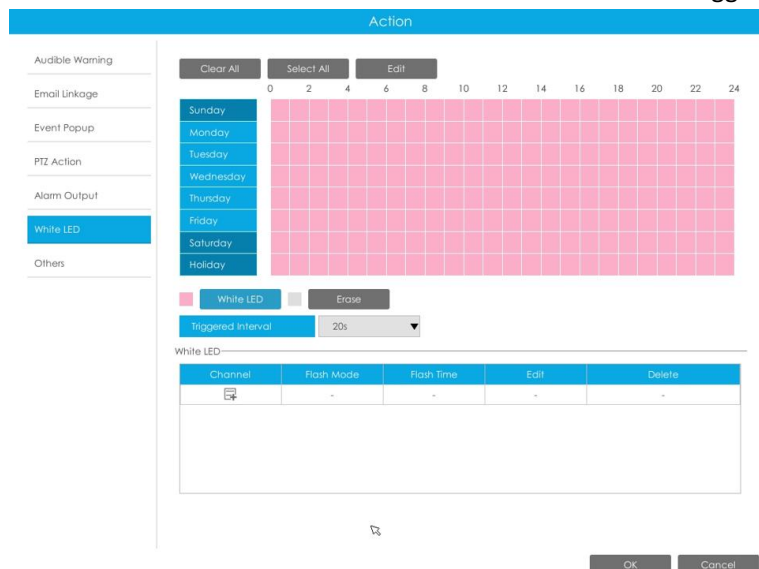
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, 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 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.

Loitering

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

Event Settings

CPU 5% Memory 24%

VCA

Region Entrance Region Exiting Advanced Motion Detection Tamper Detection Line Crossing **Loitering** Human Detection

Object Left/Removed

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

Channel: 1 Name: CAM1

Minimum Size(x1~320x240) 3 x 3

Maximum Size(x1~320x240) 320 x 240

Loitering

Region

Object Size Limit

Min. Loitering Time (s-1800s) 7

Detection Object Human Vehicle

Effective Time

Action

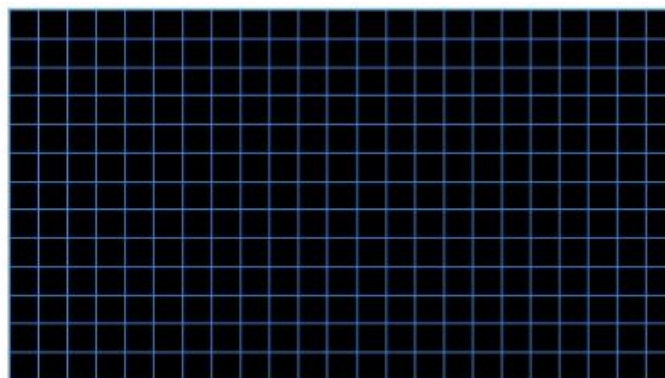
Apply Back

Step 1. Select channel and enable Loitering.

Loitering

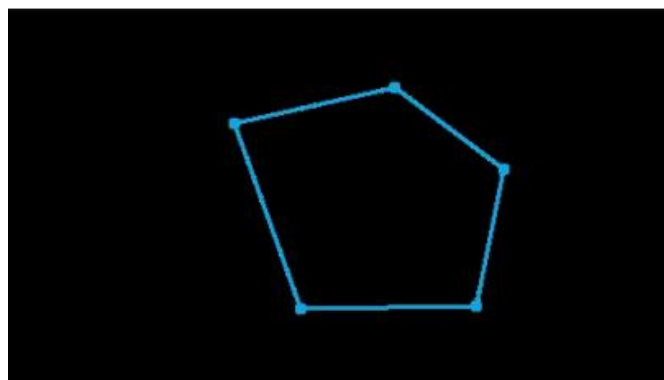
Step 2. Set Loitering detected region.

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 edit the area by clicking button. And you can set or clear all set region by directly clicking and .




Channel: 4 Name: CAM4

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



Channel: 2 Name: CAM2

Step 3. Set the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking  button.

<input type="radio"/> Minimum Size(1x1~320x240)	3	X	3
<input type="radio"/> 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.

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 (3-300s)

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-CXXX-XXC, which supports the human/vehicle detection object.

Step 6. Set Object Size.

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

Object Size

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

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



Step 8. Set Action for loitering alarm by clicking **Edit**.

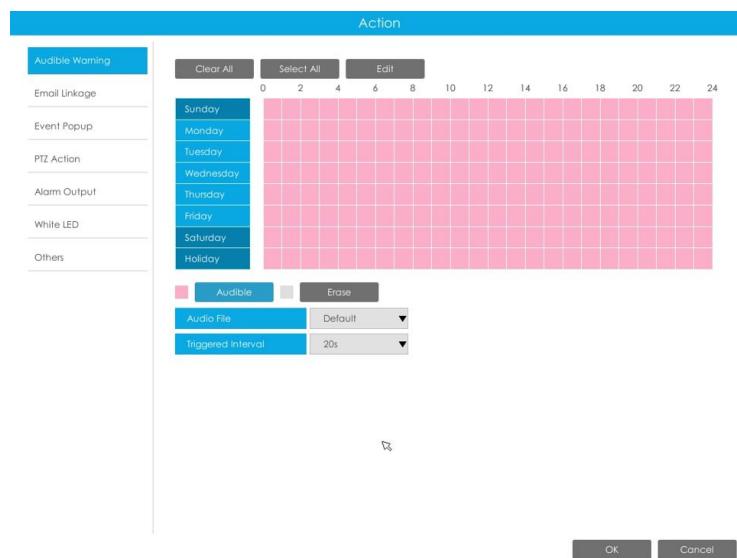
Audible Warning: NVR will trigger an audible warning when loitering is detected.

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.

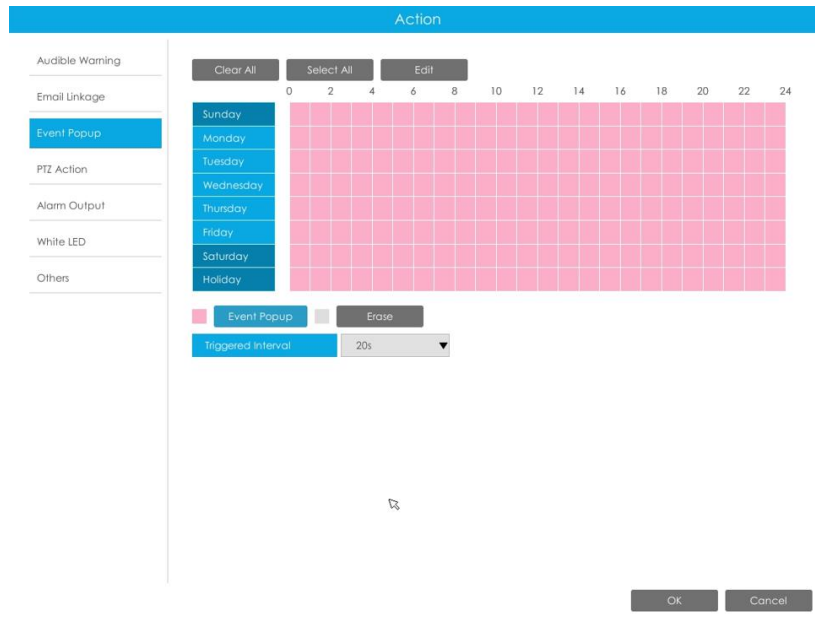
Picture Attached: Select whether to attach picture when sending Emails. If you enable it, you will receive alarm emails with one event captured picture attached.

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.



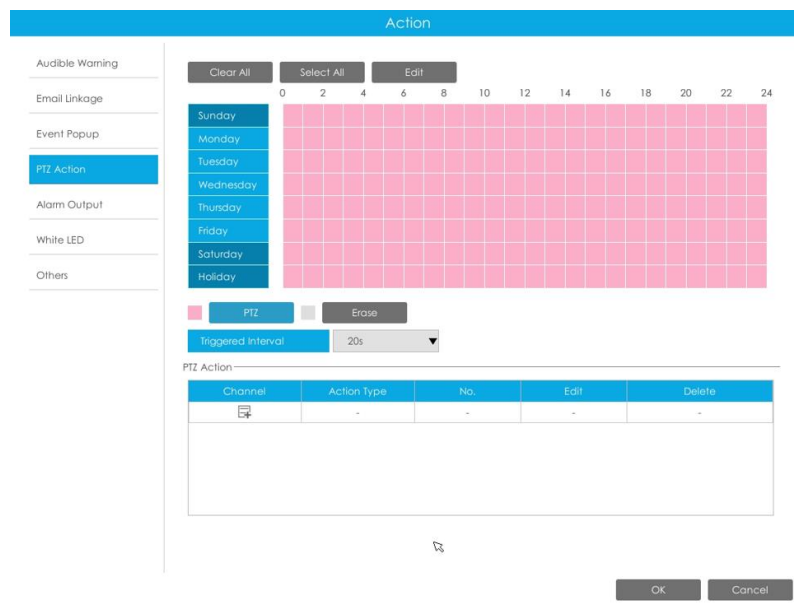
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol**.


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: 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, 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.

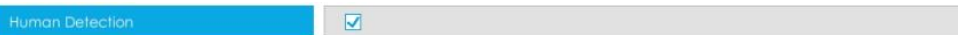
Others: Trigger selected channels to record and snapshot when alarm is triggered.

Note:

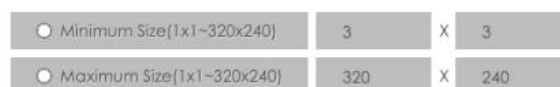
Make sure you have set correct schedule for record and snapshot before setting the Event Action.

Human Detection

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

Step 1. Select channel and enable Human Detection.**Step 2. Enable Show Tracks or not.****Step 3. Set the Object Size Limits.**

You can edit Minimum Size and Maximum Size by clicking **Edit** button.



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.

Step 4. Set Effective Time of human detection by clicking **Edit.**

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

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



Step 5. Set Action for human detection alarm by clicking **Edit**.

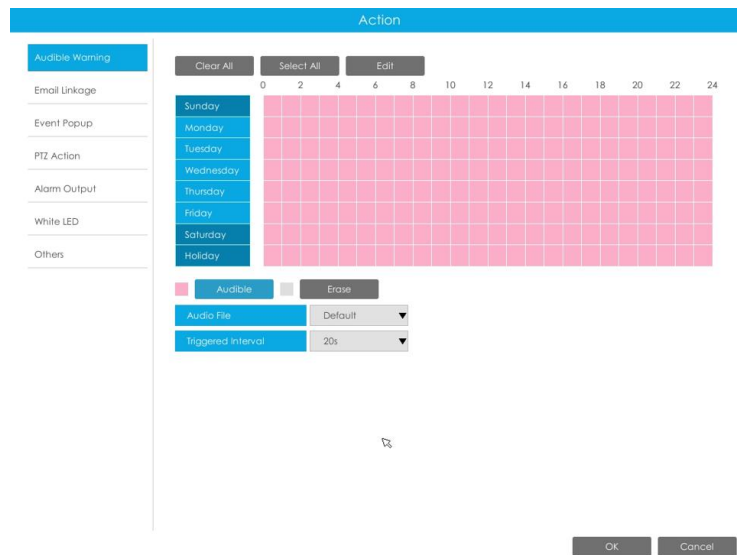
Audible Warning: NVR will trigger an audible warning when human detection is detected.

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.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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.

The screenshot shows the 'Action' configuration window for 'Email Linkage'. On the left is a sidebar with options: Audible Warning, Email Linkage (selected), Event Popup, PTZ Action, Alarm Output, White LED, and Others. The main area features a 24-hour time grid with days of the week listed on the left. Above the grid are buttons for 'Clear All', 'Select All', and 'Edit'. Below the grid are controls for 'Email' (checked), 'Erase', 'Triggered Interval' (set to 20s), and 'Picture Attached' (set to Disable). 'OK' and 'Cancel' buttons are at the bottom right.

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.

The screenshot shows the 'Action' configuration window for 'Event Popup'. The sidebar on the left has 'Event Popup' selected. The main area features the same 24-hour time grid and controls as the previous screenshot, but with 'Event Popup' selected instead of 'Email'. The 'Triggered Interval' is still set to 20s. 'OK' and 'Cancel' buttons are at the bottom right.

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.

The screenshot shows the 'Action' configuration page. On the left, a sidebar lists various settings, with 'PTZ Action' selected. The main area features a calendar grid for PTZ actions, with a 'Clear All' button, 'Select All' button, and 'Edit' button. Below the calendar, there are 'PTZ' and 'Erase' buttons, and a 'Triggered Interval' dropdown set to '20s'. At the bottom, there is a table for 'PTZ Action' with columns: Channel, Action Type, No., Edit, and Delete. The table currently contains one row with dashes in the Action Type, No., Edit, and Delete columns. 'OK' and 'Cancel' buttons are at the bottom right.

And you can add PTZ Action by clicking .

The 'Add PTZ Action' dialog box has a blue header. It contains three dropdown menus: 'Channel' with '1' selected, 'Action Type' with 'Preset' selected, and 'No.' with '1' selected. At the bottom, there are 'OK' and 'Cancel' buttons.

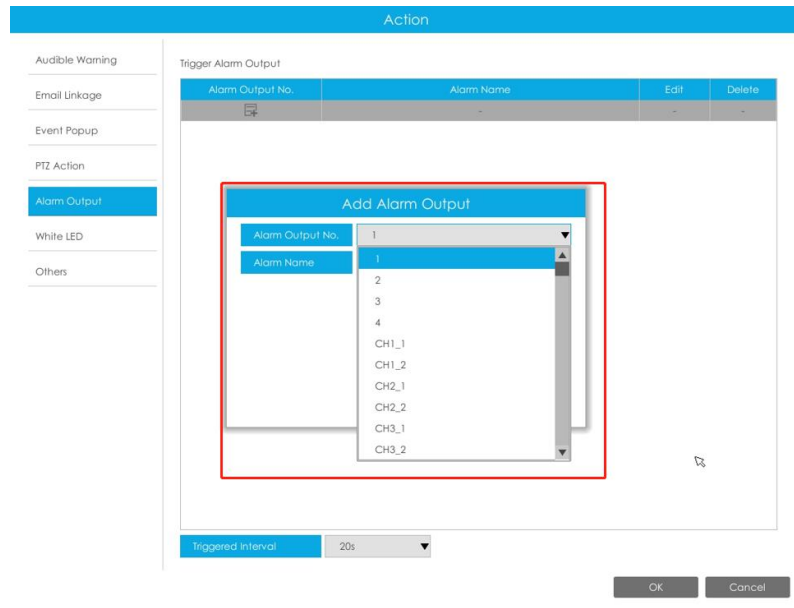
Channel: Select the channel which supports this function.

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.



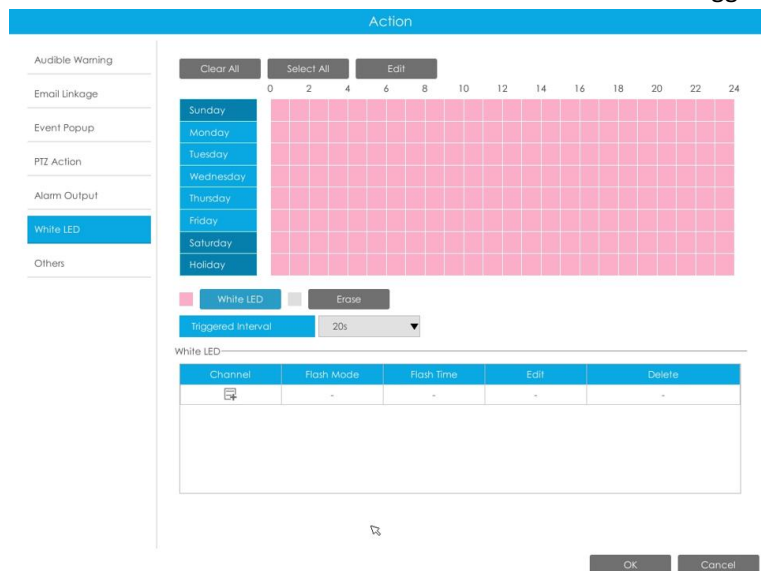
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, 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 selected channels to record and snapshot when alarm is triggered.

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

CPU 3% Memory 24%

VCA

Region Entrance Region Exiting Advanced Motion Detection Tamper Detection Line Crossing Loitering Human Detection

Object Left/Removed

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

Channel: 2 Name: CAM2

- Minimum Size(x1~320x240) 185 x 108
- Maximum Size(x1~320x240) 320 x 240

Object Left

Object Removed

Region Finish Set All Delete All

Object Size Limit Edit

Min. Time(10~1800s) 20

Sensitivity 5

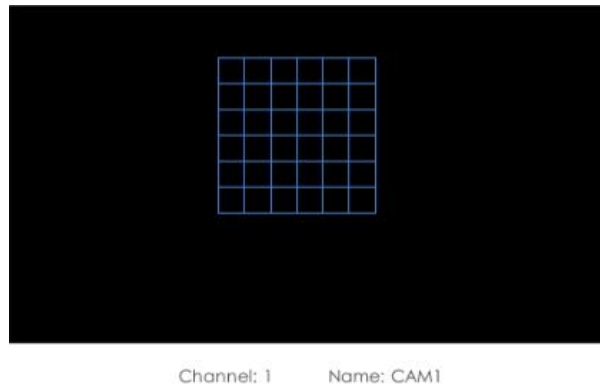
Effective Time Edit

Action Edit

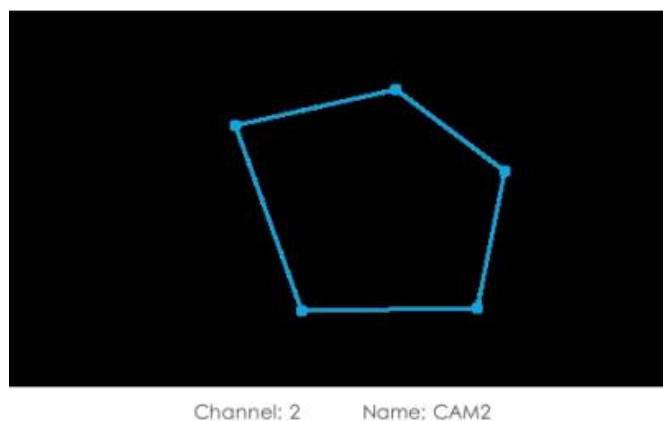
Apply Back

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 edit the area by clicking **Edit** button. And you can set or clear all set region by directly clicking **Set All** and **Clear 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 the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking  button.

<input type="radio"/> Minimum Size(1x1~320x240)	3	X	3
<input type="radio"/> 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.

Step 4. 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.



Min. Time(10~1800s)	20
---------------------	----

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.

Sensitivity	<input type="range" value="5"/>
-------------	---------------------------------

Step 6. 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  or  to set or clear all time settings.



Effective Time	
	0 2 4 6 8 10 12 14 16 18 20 22 24
Sunday	
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Holiday	

Effective Time
 Erase

Step 7. Set Action for object left/removed alarm by clicking .

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

The user can set effective schedule as following two ways:

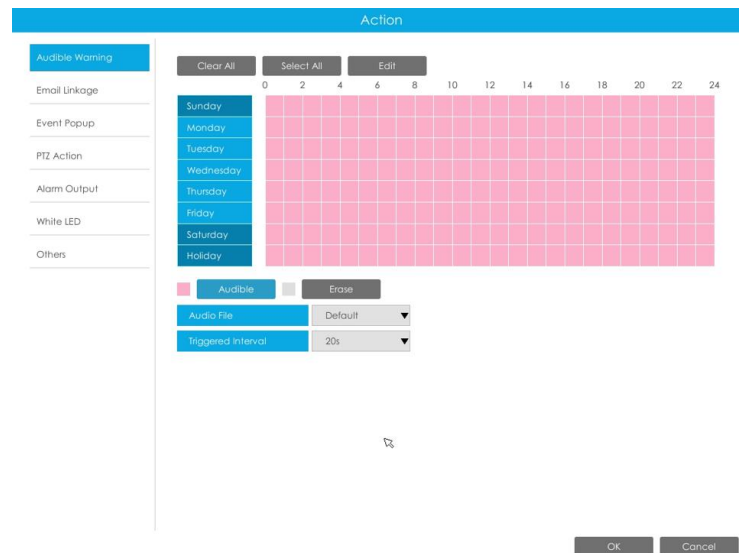
- ① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking  or  to set or clear all

time settings.

- ② Click **Edit** to edit record effective time manually.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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



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

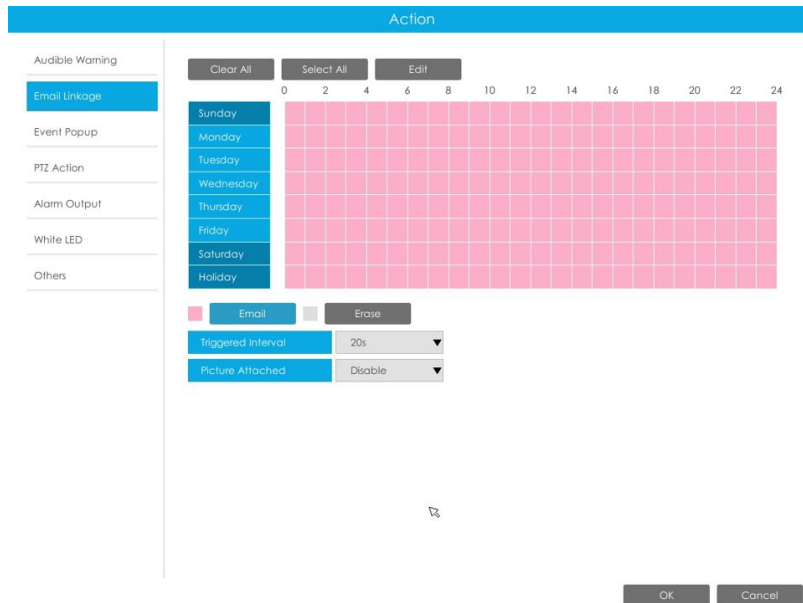
The user can set effective schedule as following two ways:

- 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.

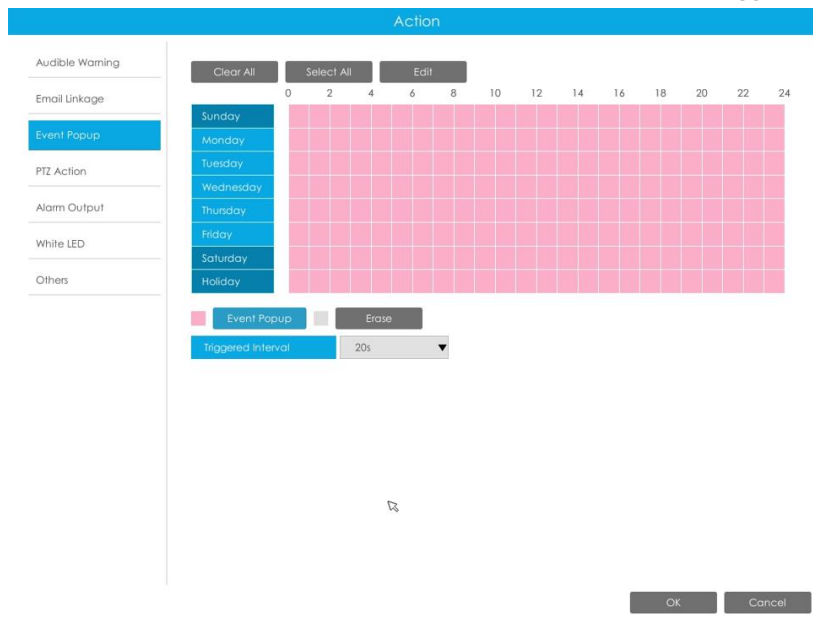


Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And you can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration Time'. Then triggered channel will be shown one by one as duration time.

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.



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.

The screenshot shows the 'Action' configuration window. On the left is a sidebar with options: Audible Warning, Email Linkage, Event Popup, **PTZ Action**, Alarm Output, White LED, and Others. The main area has a calendar grid with days of the week on the y-axis and hours (0-24) on the x-axis. A pink grid indicates the active time range. Above the grid are buttons for 'Clear All', 'Select All', and 'Edit'. Below the grid are 'PTZ' and 'Erase' buttons, and a 'Triggered Interval' dropdown set to '20s'. At the bottom, there is a table for 'PTZ Action' with columns: Channel, Action Type, No., Edit, and Delete. The table currently has one row with dashes in the last four columns. 'OK' and 'Cancel' buttons are at the bottom right.

And you can add PTZ Action by clicking .

The 'Add PTZ Action' dialog box has a blue header. It contains three dropdown menus: 'Channel' with value '1', 'Action Type' with value 'Preset', and 'No.' with value '1'. At the bottom are 'OK' and 'Cancel' buttons.

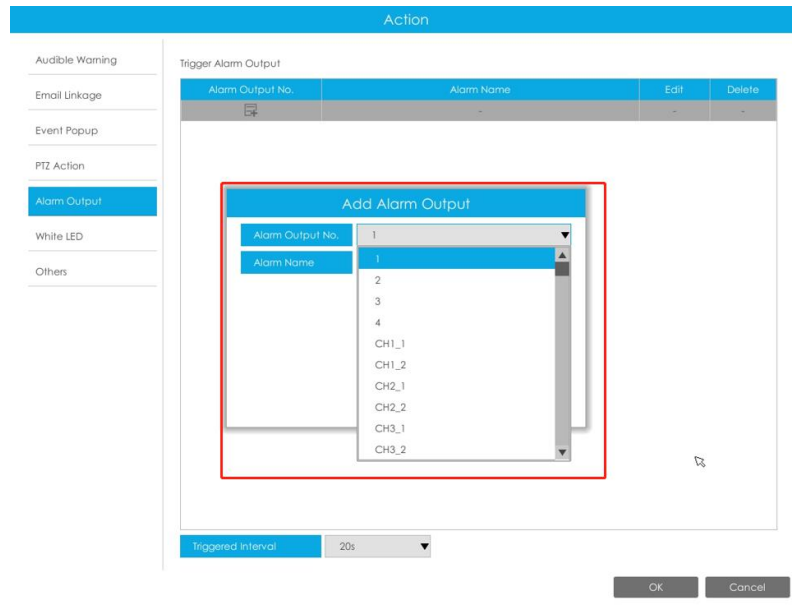
Channel: Select the channel which supports this function.

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.



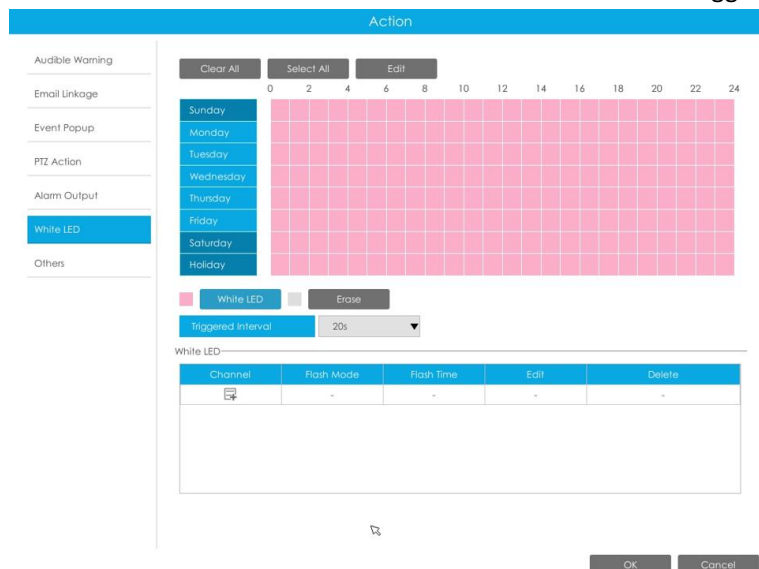
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type, 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 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.

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.

The screenshot displays the 'Event Settings' page for VCA. At the top, there are tabs for 'Region Entrance', 'Region Exiting', 'Advanced Motion Detection', 'Tamper Detection', 'Line Crossing', 'Loitering', and 'Human Detection'. Below these, there are sub-tabs for 'People Counting', 'Object Left/Removed', and 'Settings'. A large black rectangle represents the camera view. To its right is a grid of 64 numbered cells (1-64). Below the grid, there are settings for 'Minimum Size' (3 x 3) and 'Maximum Size' (320 x 240). A table titled 'Detection Object Size Settings' lists various events with their respective min and max sizes and edit/reset options.

Event	Min. Size	Max. Size	Edit	Reset
<input type="checkbox"/> Region Entrance	3x3	320x240	<input checked="" type="checkbox"/>	<input type="button" value="Reset"/>
<input type="checkbox"/> Region Exiting	3x3	320x240	<input checked="" type="checkbox"/>	<input type="button" value="Reset"/>
<input type="checkbox"/> Line Crossing	3x3	320x240	<input checked="" type="checkbox"/>	<input type="button" value="Reset"/>
<input type="checkbox"/> Loitering	3x3	320x240	<input checked="" type="checkbox"/>	<input type="button" value="Reset"/>
<input type="checkbox"/> Human Detection	3x3	320x240	<input checked="" type="checkbox"/>	<input type="button" value="Reset"/>
<input type="checkbox"/> People Counting	3x3	320x240	<input checked="" type="checkbox"/>	<input type="button" value="Reset"/>
<input type="checkbox"/> Object Left/Removed	3x3	320x240	<input checked="" type="checkbox"/>	<input type="button" value="Reset"/>

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:

Upgrade your device to corresponded firmware version.

Camera: V4X.7.0.74 or above.

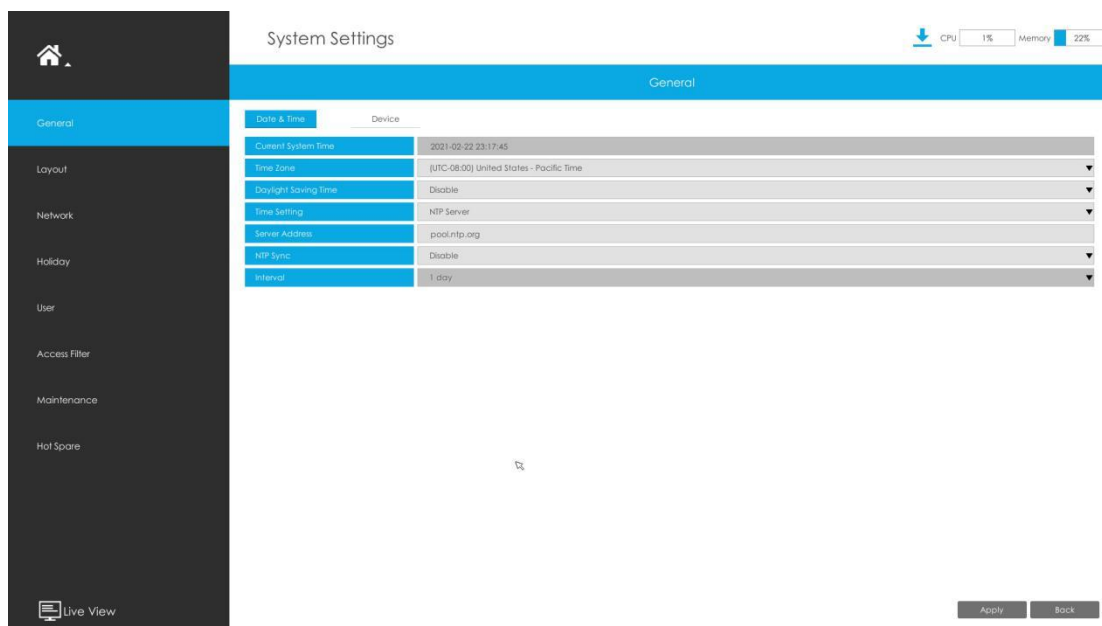
NVR: V7X.9.0.9 or above.

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.



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.

Device Name: Set the device name.

HDMI1/VGA1 Resolution: Set the output resolution of HDMI1/VGA1 port.

HDMI2/VGA2: Enable it to use HDMI2/VGA2 port.

HDMI2/VGA2 Resolution: Set the output resolution of HDMI2/VGA2 port.

Quick Screen Switch: After enabling Quick Screen Switch function, you can double-click the mouse to switch the main-screen and sub-screen control. The main-screen and sub-screen can be configured separately and have their own display settings which enable you to have different liveview or playback display layouts simultaneously, offering a more efficient and explicit surveillance.

HDMI1 Audio: Enable it to use HDMI1 Audio.

Audio Out: Enable Audio Out.

Event Popup: Select the port to display the alarm popup.

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.

Occupancy Live View: Select the port to display the Occupancy Live View.

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.

The screenshot shows the 'System Settings' interface for a Milesight device. The 'General' tab is selected, and the 'Device' section is active. The settings are as follows:

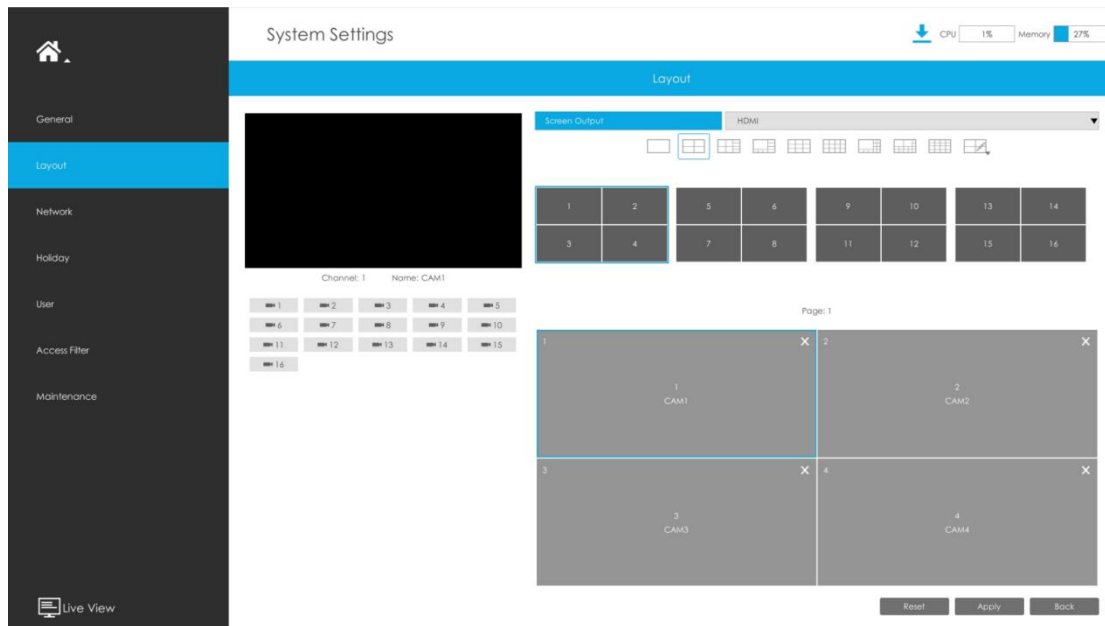
Setting	Value
Device Name	NVR
HDMI1/VGA1 Resolution	1920 x 1080 / 60Hz
HDMI2/VGA2	Disable
HDMI2/VGA2 Resolution	1920 x 1080 / 60Hz
Quick Screen Switch	Disable
HDMI Audio	Enable
Audio Out	Enable
Event Popup	HDMI1/VGA1
Event Popup Duration Time	8s
Occupancy Live View	HDMI1/VGA1
Mouse Pointer Speed Level	5(Default)
Wizard	Start
Boot Wizard	Disable
Boot Authentication	Enable
Menu Authentication	Disable
Settings Page Timeout	Disable
Auto Logout	Disable
Display When Logout	Exit
Language	English

At the bottom right of the settings page, there are 'Apply' and 'Back' buttons. The top right corner shows system status: CPU 1% and Memory 24%.

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.

3.9.2 Layout



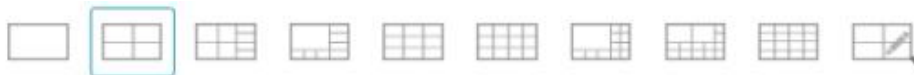
Step 1. Select Screen Output.

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.

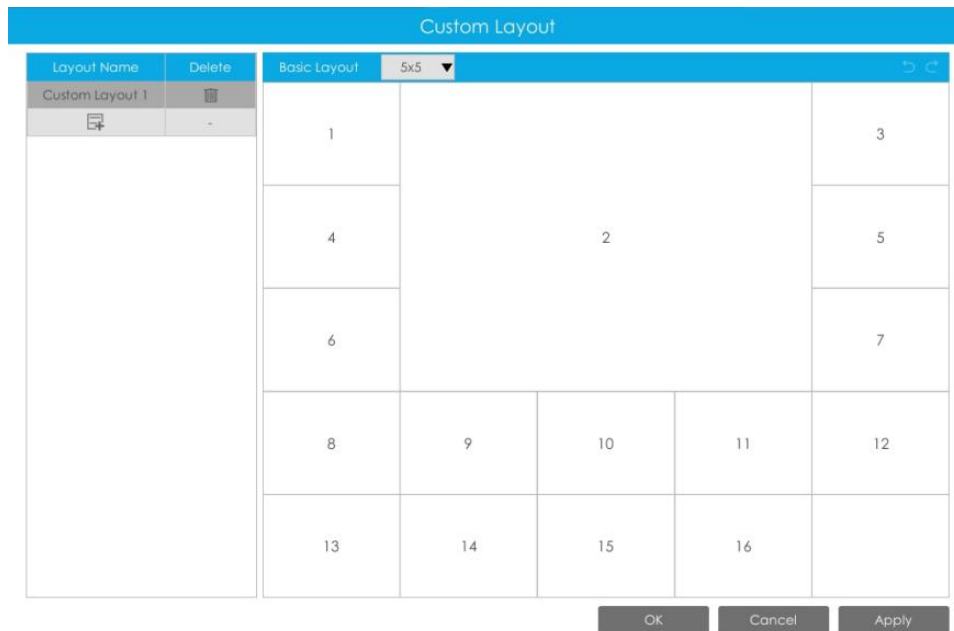
Step 2. Select a layout format.



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  to save the custom layout.

**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.

Click to save the settings or click to reset the layout.

**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.

Network				
Basic	UPnP	DDNS	Email	More
LAN				
IPv4 DHCP	Disable		IPv4 Mode	Manual
IPv4 Address	192.168.7.111		IPv4 Address	
IPv4 Subnet Mask	255.255.240.0		IPv4 Prefix Length	
IPv4 Gateway	192.168.7.1		IPv4 Gateway	
Preferred DNS Server	192.168.8.1			
Alternate DNS Server	...			
MTU/Buffer	1500			
MAC	TC:CE:1A:0A:30:92			
PoE NIC IPv4 Address	192.168.20.1			

Note:

1. Check the DHCP check-box when there is a DHCP server running in the networks.
2. 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**.

Network					
Basic	UPnP	DDNS	Email	Milesight Cloud	More
	UPnP	Disable			
	Forwarding Type	Auto			
Port Type	Edit	External Port	Internal Port	Status	
HTTP	<input checked="" type="checkbox"/>	21202	80	Invalid	
RTSP	<input checked="" type="checkbox"/>	23202	554	Invalid	

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.

The screenshot shows the 'Network' configuration page with the 'DDNS' tab selected. The settings are as follows:

Field	Value
DDNS	Disable
Provider	ddns.milesight.com
External HTTP Port	80
External RTSP Port	554
DDNS URL	http://ddns.milesight.com/DAE8D2
DDNS Status	Not Running

3.9.3.4 Email

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

The screenshot shows the 'Network' configuration page with the 'Email' tab selected. The settings are as follows:

Field	Value
Email	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	<input type="checkbox"/> TLS <input checked="" type="checkbox"/> SSL
<input type="checkbox"/> 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 to check if the Mail function is workable.

**Note:**

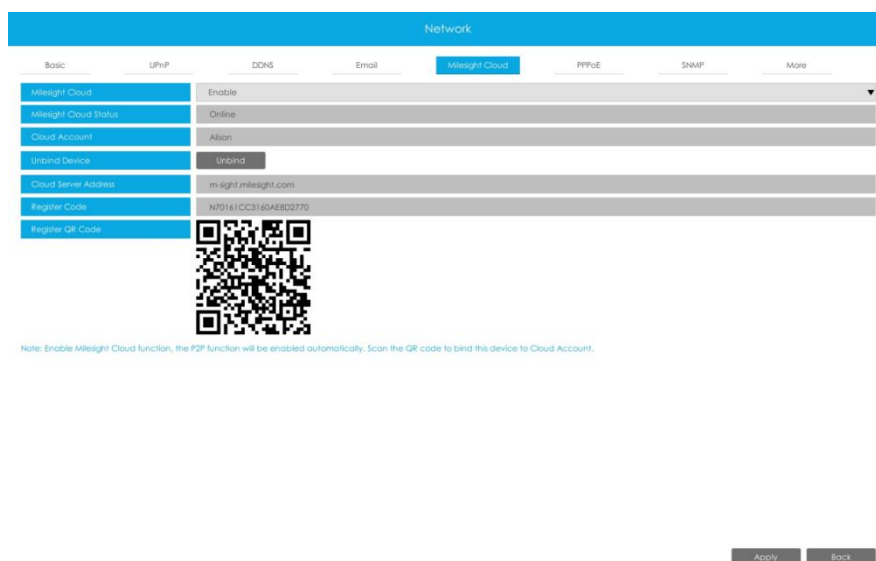
If your NVR has a port forwarding IP for Host Name, please input the complete address that contains the port.

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.



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.

The screenshot shows the 'Network' configuration page with the 'PPPoE' tab selected. The settings are as follows:

Basic	UPnP	DDNS	Email	Milesight Cloud	PPPoE	SNMP	More
PPPoE		Disable					
Dynamic IP		0 . 0 . 0 . 0					
User Name							
Password							
Confirm Password							

Note: If both UPnP and PPPoE are enabled, only 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.

The screenshot shows the 'Network' configuration page with the 'SNMP' tab selected. The settings are as follows:

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 Name							
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)

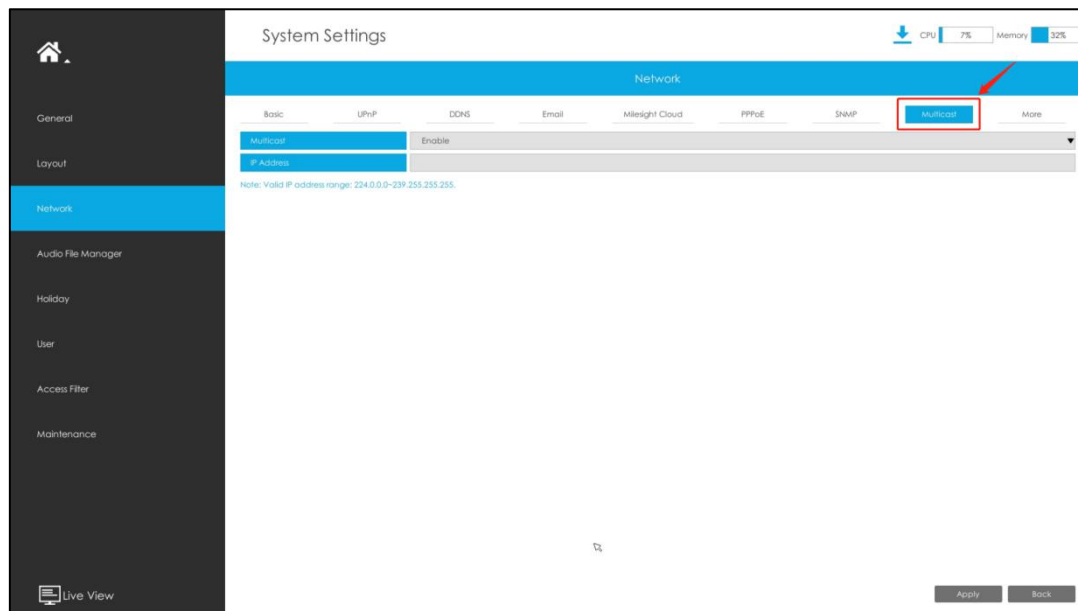
Write Security Name: Input the name of Write Security Community

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

SNMP Port: The default of the SNMP port is 161.

3.9.3.8 Multicast

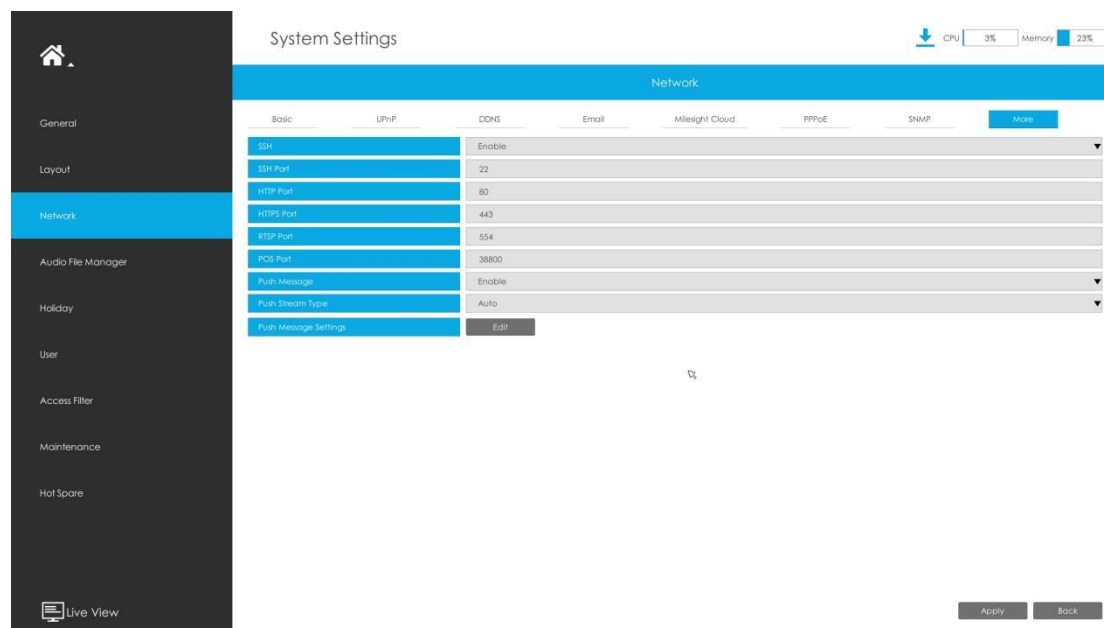
Enable multicast to reduce the load of the NVR, and the video can still be previewed normally when the NVR is multi-connected. Users just need to enable multicast and enter the IP address.



Note:

Valid IP address range: 224.0.0.0~239.255.255.255.

3.9.3.9 More



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.

POS Port

It is the communication port between NVR and the POS machine. The default POS port is 38800.

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

The screenshot shows the 'Push Message Settings' window with the 'Camera Event' tab selected. The 'Channel' is set to '1'. Under 'Push Event Type', the following events are checked: All, Motion Detection, Region Entrance, Advanced Motion Detection, Line Crossing, Human Detection, Alarm Input (1 and 2), Video Loss, Region Exiting, Tamper Detection, Loitering, Object Left/Removed, ANPR (Black List, White List, and Visitor List). Buttons for 'Copy', 'OK', and 'Cancel' are visible at the bottom.

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

The screenshot shows the 'Push Message Settings' window with the 'NVR Event' tab selected. Under 'Alarm Input', 'All' and channels 1 through 16 are checked. Under 'POS', 'All' and channels 1 through 16 are checked. Buttons for 'OK' and 'Cancel' are visible at the bottom.

Select channels which you want to push the Alarm Input Event or the POS Event of NVR.

Note:

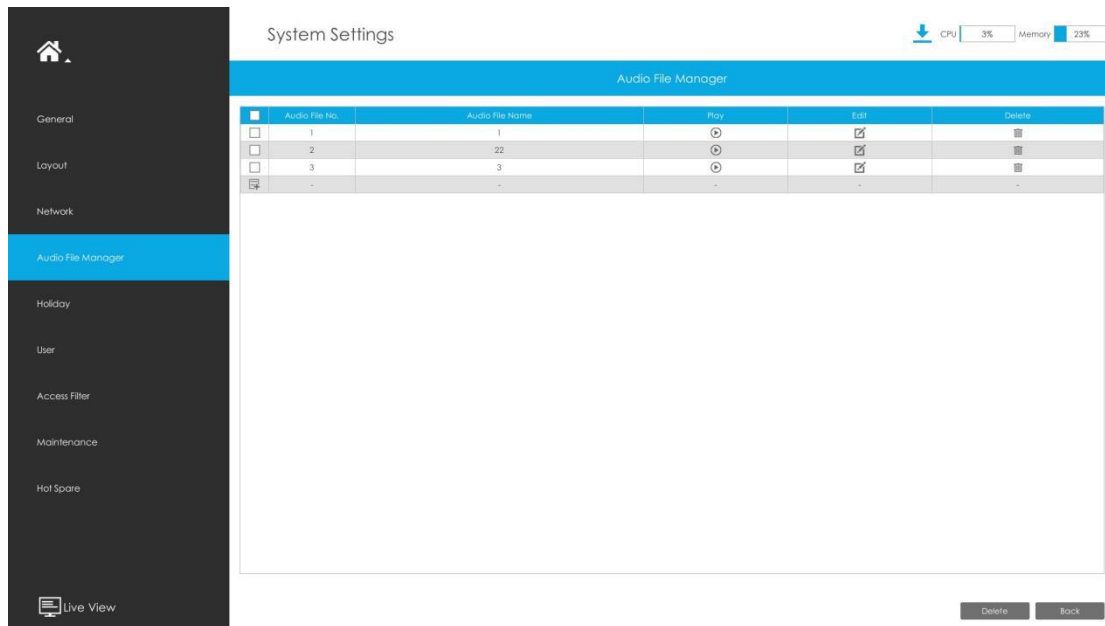
There would not have NVR Event interface if your NVR doesn't have alarm input interface.

3.9.4 Audio File Manager



Here you can upload up to 10 audio files.

Note:

Ensure that the NVR hardware has an Audio Output interface.



Add a new audio file

Click , then select an audio file from the external device and enter the audio file name, and then click  to add a new audio file.

Note:

Ensure that the audio file format is “.wav”, the codec type is PCM/PCMU/PCMA, 64kbps or 128kbps bitrate and doesn't exceed 500K.

Audio File Add

Audio File		
Audio File Name		


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




Play audio file

Select an audio file and click  to play the audio file.

Edit audio file

Select an audio file and click  to edit the audio file name.

Delete audio file

Select an audio file and click  to delete the audio file name.

In addition, you can also check multiple audio files and click  to delete them.

3.9.5 Holiday

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

The screenshot shows the 'System Settings' interface with the 'Holiday' tab selected. The table below lists 27 holiday entries, each with an ID, name, status, start date, end date, and an edit icon.

ID	Holiday Name	Status	Start Date	End Date	Edit
1	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
2	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
3	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
4	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
5	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
6	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
7	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
8	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
9	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
10	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
11	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
12	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
13	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
14	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
15	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
16	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
17	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
18	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
19	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
20	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
21	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
22	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
23	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
24	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
25	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
26	Holiday	Disable	1-1	1-1	<input type="checkbox"/>
27	Holiday	Disable	1-1	1-1	<input type="checkbox"/>

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

End Date. Then click to save the configuration.

The 'Holiday Edit' dialog box contains the following fields:

- Holiday Name:** Holiday
- Holiday:** Enable
- Style:** By Month
- Start Date:** January 1
- End Date:** February 1

* Holiday schedule takes precedence over other schedules.

Buttons: OK, Cancel, Apply

3.9.6 User

System Settings

CPU 5% Memory 14%

User

ID	User Name	User Level	Edit Limits	Edit Password	Delete
1	admin	Admin	-	<input checked="" type="checkbox"/>	-
2	l	Operator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	pp	Operator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Live View

Add 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**, input user information, then click **Edit** to configure the user permission, and click **OK** to add a new user.

Add User

Admin Password:

User Name: alison

Password:

Confirm Password:

User Level: Operator

User Permissions: Edit

Unlock Pattern: Enable

Set Unlock Pattern: Edit

OK Cancel

Note:

1. The user name can only contain letters and number. There are two user levels with different

authority: Operator and Viewer.

- You can set Unlock Pattern for the user after enabling it.


Set Unlock Pattern

Please connect at least 4 dots.

OK

Cancel

Edit user limits

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

User Permissions include Operation Permissions and Channel Permissions.

- “Local” means that the privilege to the monitor connected with NVR.
- “Remote” means that the privilege to web settings.

Edit User Permissions

Operation Permissions
Channel Permissions

Local

All

Live View Operation

Record

Snapshot

Audio

Two-way Audio

PTZ Control

PTZ Settings

Image Configuration

Camera Alarm Output

Play Mode

Target Mode Operation

Playback Operation

Snapshot

Audio

Tag

Lock

File Export

Retrieve

Smart Analysis

Camera

Storage

Event

Settings

Status & Logs

Shutdown/Reboot

Remote

All

Live View Operation

Record

Snapshot

Audio

Two-way Audio

PTZ Control

PTZ Settings

Image Configuration

Camera Alarm Output

Play Mode

Target Mode Operation

Playback Operation

Snapshot

Audio

Tag

Lock

File Export

Retrieve

Smart Analysis

Camera

Storage

Event

System

Status & Logs

Reboot

OK

Cancel

Edit User Permissions

Operation Permissions
Channel Permissions

Local

Live View

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Playback

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Remote

Live View

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Playback

1

2

3

4

5

6

7

8

9

10

11

12

13

14


15

16

OK

Cancel

Edit user password

Select a user, when the background color changes into dark gray, click  to modify password after enabling Change Password. You can also click Edit to set Unlock Pattern after enabling Unlock Pattern.

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

Delete user

Select a user and click  to delete a user.

Modify Security Question

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

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.

3.9.7 Access Filter

Enable Access Filter to restrict or open the access to device address added via IP or MAC.

System Settings

CPU 2% Memory 23%

Access Filter

Access Filter Enable

Filter Type Allow

	Address	Edit	Delete
<input type="checkbox"/>	192.168.7.22		

Add Delete Apply Back

Step 1. Enable Access Filter.

Access Filter Enable

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 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 . . .

OK Cancel

Add Address	
Address Type	IP Address ▼
IP Address Rule	Range ▼
IP Address	. . . - . . .
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

Method 2: Add the address via MAC.

Add Address	
Address Type	MAC Address ▼
MAC Address	: : : :
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

Step 4. Then click to make Access Filter effective.

You can click in the Access Filter interface to edit the corresponding address again.

Edit Address	
Address Type	IP Address ▼
IP Address Rule	Single ▼
IP Address	192.168.111.1
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

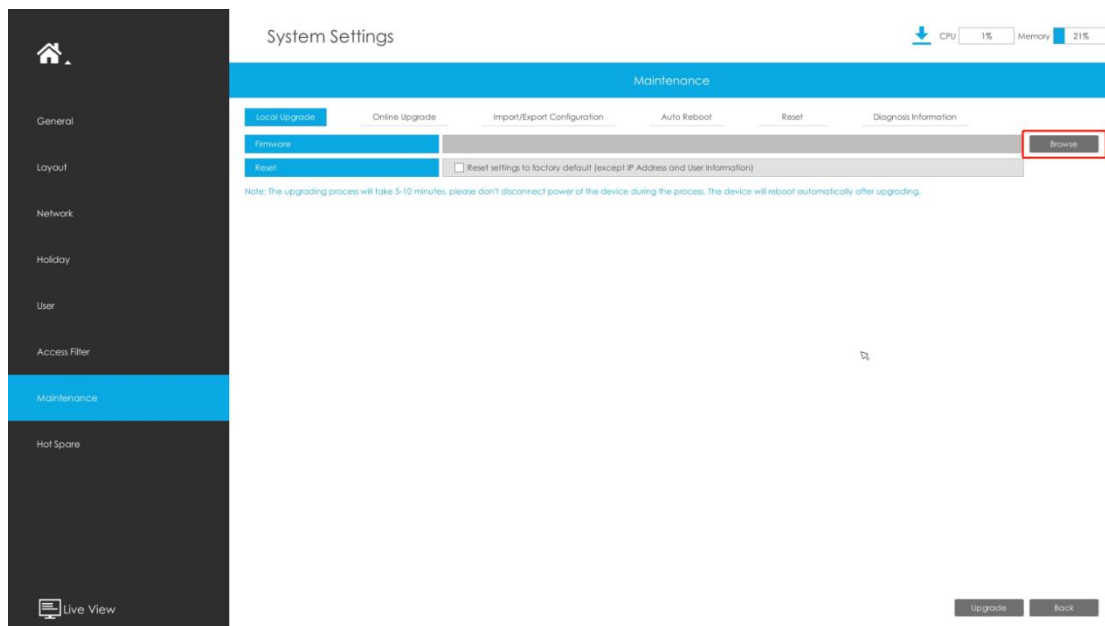
Note:

- 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.

3.9.8 Maintenance

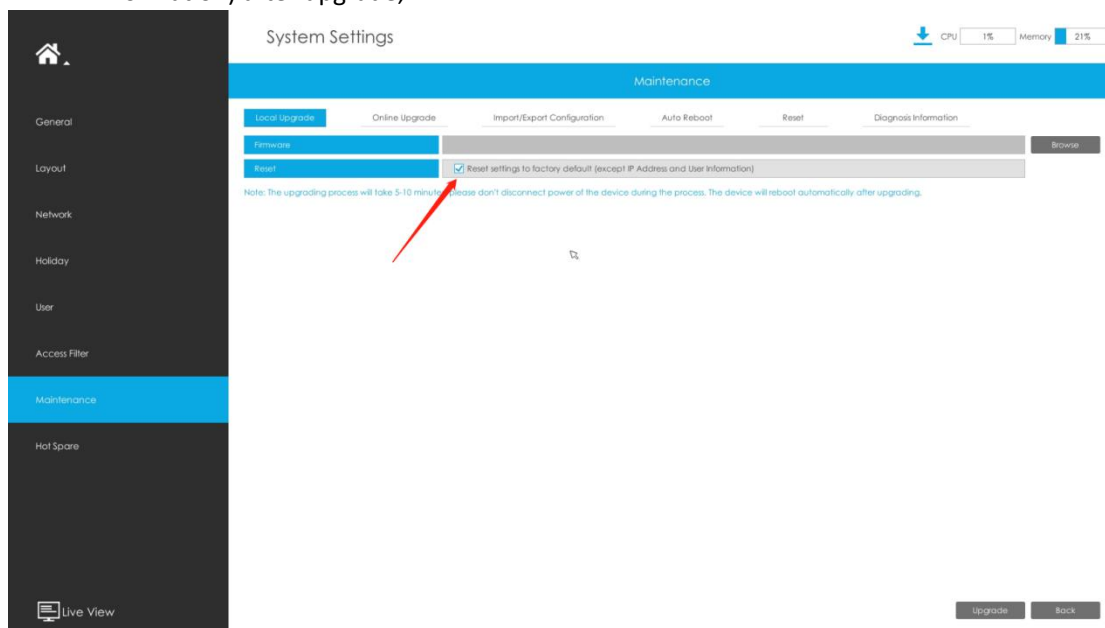
Local Upgrade

Step 1. Click and select the corresponding firmware you downloaded in your USB;



The screenshot shows the 'System Settings' interface with the 'Maintenance' section active. The 'Reset' option is selected, and the 'Browse' button is highlighted with a red box. The 'Upgrade' button is also visible at the bottom right.

Step 2. Check if you need to reset settings to factory default (except IP Address and User Information) after upgrade;



The screenshot shows the 'System Settings' interface with the 'Maintenance' section active. The 'Reset' option is selected, and the checkbox 'Reset settings to factory default (except IP Address and User Information)' is checked. A red arrow points to the checkbox. The 'Upgrade' button is also visible at the bottom right.

Step 3. Click **Upgrade** to confirm the upgrade.

System Settings

CPU 2% Memory 21%

Maintenance

Local Upgrade Online Upgrade Import/Export Configuration Auto Reboot Reset Diagnosis Information

Upgrade

Back

Note:

The system will auto reboot after confirming upgrade.

Online Upgrade

Step 1. Click **Check** to confirm whether there is a new version;

If there is a new version, the Latest Version column will display corresponding information.

System Settings

CPU 1% Memory 21%

Maintenance

Local Upgrade Online Upgrade Import/Export Configuration Auto Reboot Reset Diagnosis Information

Model	MS-48064-LH
Software Version	71.9.0.11-a7
Latest Version	71.9.0.11-a7

Upgrade

Check

Upgrade

Back

Step 2. Click **Upgrade** to confirm the upgrade.

System Settings

CPU 1% Memory 21%

Maintenance

Local Upgrade Online Upgrade Import/Export Configuration Auto Reboot Reset Diagnosis Information

Model	MS-NB064-UH
Software Version	71.9.0.11-a7
Listed Version	71.9.0.11-a7

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.

Check Upgrade Back

Note:

The system will auto reboot after confirming upgrade.

Import/Export Configuration

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

Export Configuration File: Select a folder and then click **Backup** to export configuration to USB device.

System Settings

CPU 1% Memory 21%

Maintenance

Local Upgrade Online Upgrade Import/Export Configuration Auto Reboot Reset Diagnosis Information

Import Configuration File

Configuration File Browse Restore

Export Configuration File

Export Directory Browse Backup

Back

Auto Reboot

System Settings

CPU 1% Memory 21%

Maintenance

Local Upgrade Online Upgrade Import/Export Configuration **Auto Reboot** Reset Diagnosis Information

Auto Reboot	Disable
Day	Everyday
Time	00:00:00

Apply 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 can be reset to default settings by clicking **Reset**.

System Settings

CPU 1% Memory 21%

Maintenance

Local Upgrade Online Upgrade Import/Export Configuration Auto Reboot **Reset** Diagnosis Information

Please choose the parameters which you want to keep after reset. Uncheck all to reset the NVR to inactivate default.

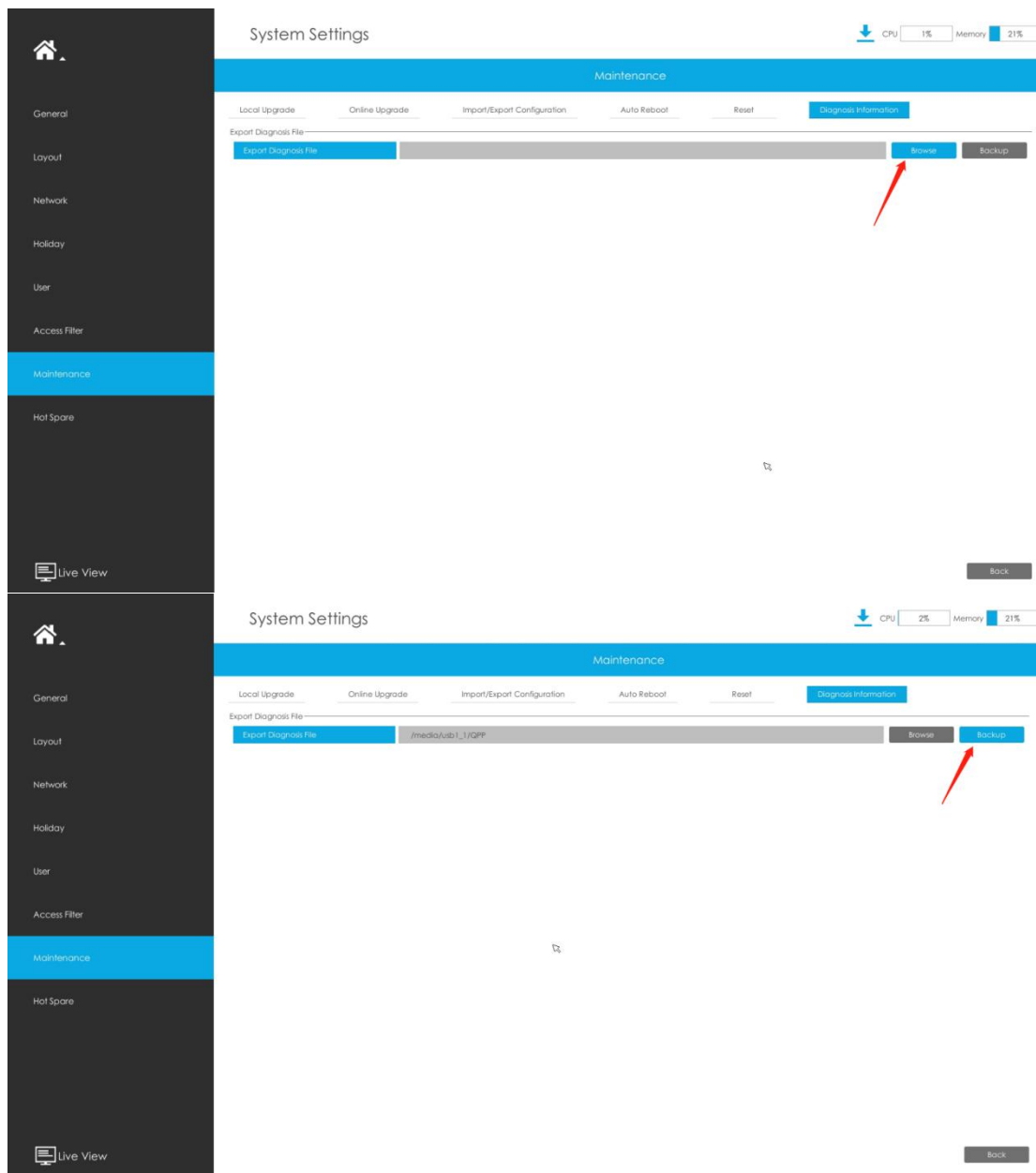
<input checked="" type="checkbox"/> Keep the IP Configuration
<input checked="" type="checkbox"/> Keep the User Information

Reset Back

Diagnosis Information

Click **Browse** to select the path to save the diagnosis file on the USB device. And then click

Backup to export the diagnosis file.



3.9.9 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.

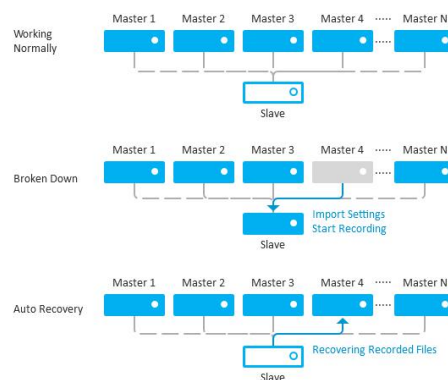
Step 2: Add Master which is up to 32.

Hot Spare						
Hot Spare Mode	Slave Mode					
Master List						
No.	IP Address	MAC Address	Model			
Refresh						
Master Status						
No.	IP Address	MAC Address	Model	Connection Status	Working Status	Delete
1	192.168.40.44	1CC3160A7EF4	MS-N7032-UH	Online	Normal	

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

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, SN Address, Hardware Version, Software Version, and Uptime.

Device Information	
Model	MS-N7016-UPH
MAC Address	1C:C3:16:0A:E8:D2
SN Address	7420150003
Hardware Version	V2.0
Software Version	71.9.0.14-a4
Uptime	14:26:09 up 39 min

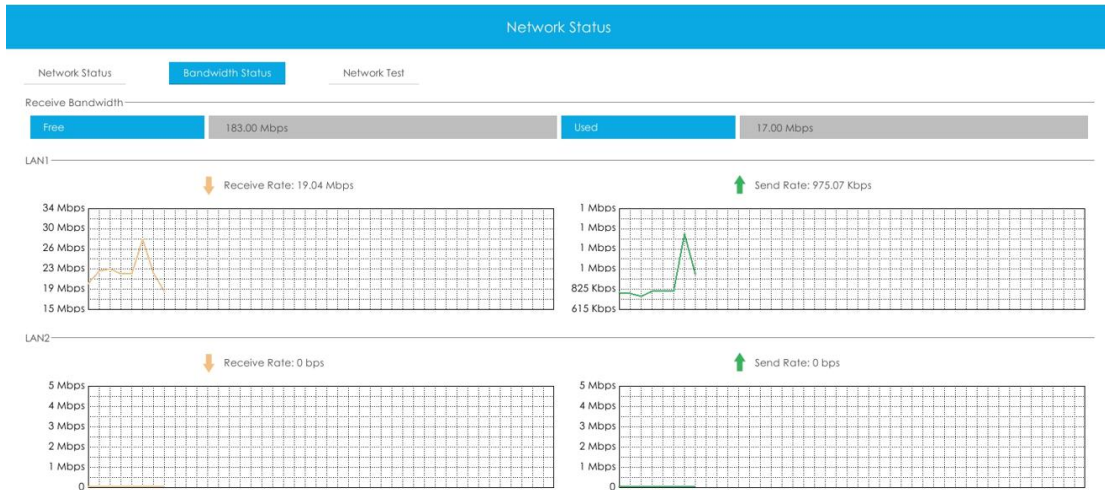
3.10.2 Network Status

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

Network Status

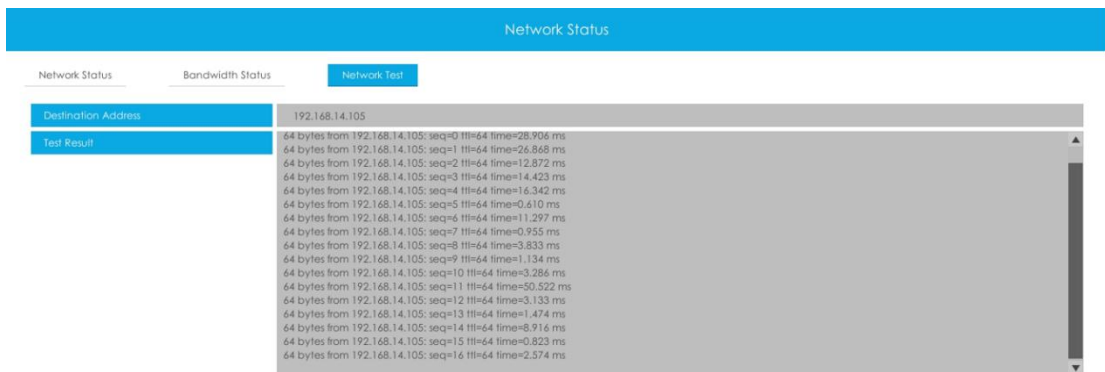
Network Status				
Network Status		Bandwidth Status		Network Test
LAN1				
Connection	Link is up	Mode	100 Mbps FULL	
IPv4 DHCP	Disable	IPv6 Mode	Manual	
IPv4 Address	192.168.7.103	IPv6 Address		
IPv4 Subnet Mask	255.255.240.0	IPv6 Prefix Length		
IPv4 Gateway	192.168.7.2	IPv6 Gateway		
Preferred DNS Server	8.8.8.8	MTU(Byte)	1500	
Alternate DNS Server		MAC	1C:C3:16:0A:25:F6	
LAN2				
Connection	Link is down	Mode		
IPv4 DHCP	Disable	IPv6 Mode	Manual	
IPv4 Address	192.168.10.200	IPv6 Address		
IPv4 Subnet Mask	255.255.255.0	IPv6 Prefix Length		
IPv4 Gateway	192.168.10.1	IPv6 Gateway		
Preferred DNS Server	8.8.8.8	MTU(Byte)	1500	
Alternate DNS Server		MAC	1C:C3:16:0A:25:F7	

Bandwidth Status



Network Test

Users can quickly know the network status between the NVR and the destination address such as the camera or computer.



3.10.3 Camera Status

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

Camera Status

Channel Status

Channel	Name	IP Address	Record	Frame Rate	Bit Rate	Frame Size	Status
1	CAM1	192.168.14.103	Off	31 fps	4.33 Mbps	1920x1080	✓
2	CAM2	192.168.14.105	On	25 fps	7.00 Mbps	3000x3000	✓
3	CAM3	192.168.7.119	On	25 fps	4.01 Mbps	1920x1080	✓
4	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-

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

Camera Status				
Channel Status		PoE Port Status		
PoE Port	IP Address	Current Power Consumption	Status	
1	--	--	--	
2	--	--	--	
3	--	--	--	
4	--	--	--	
5	--	--	--	
6	--	--	--	
7	--	--	--	
8	--	--	--	
Total Power Consumption		0.00W		
Remaining Power Consumption		120.00W		

Note:
 1. The rated power consumption of all PoE ports is 120.00W.
 2. When the total power consumption exceeds the rated value, the system will close PoE ports in the order of channel numbers from large to small until the total 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.

Disk Status								
Disk Status		S.M.A.R.T						
Port	Vendor	Status	Total	Free	Property	HDD Type	Group	
2	WDC WD2500BEVT-08A23T1	Normal	232.89 GB	217.00 GB	R/W	LOCAL	I	
Total Capacity		232.89 GB						
Available Capacity		217.00 GB						

S.M.A.R.T

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



Test Type: Fast and Full are available.

















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

Disk Status						
Disk Status		S.M.A.R.T				
ID	Attribute Name	Value	Warn	Threshold	Raw Value	Status
01	Raw_Read_Error_Rate	200	200	51	2	OK
03	Spin_Up_Time	142	131	21	1864	OK
04	Start_Stop_Count	1	1	0	516529	OK
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	37264	OK
0A	Spin_Retry_Count	100	100	0	0	OK
Port	2					
Test Process						
Test Type	FAST					
Temperature(°C)	35					
Uptime	37264					
Self-evaluation	PASSED					
All-evaluation	In good condition					
S.M.A.R.T Test	Test					


3.10.5 Event Status


Camera Event























The user can check Camera Event here, including Video Loss, Motion and I/O.  will turn into  when the corresponding alarm is triggered.

Event Status					
Camera Event	Alarm	VCA	People Counting		
Channel	Name	IP Address	Video Loss	Motion	
1	CAM1	192.168.7.94			
2	CAM2	192.168.7.189			
3	CAM3	192.168.7.223			
4	CAM4	-			
5	CAM5	-			
6	CAM6	-			
7	CAM7	-			
8	CAM8	-			

Alarm

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

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.

Status					
Event Status					
Camera Event	Alarm	VCA	People Counting		
Alarm Input List					
No.	Alarm Name	Alarm Type		Status	
1		NO			
2		NO			
3		NO			
4		NO			
5		NO			
6		NO			
7		NO			
8		NO			
9		NO			
10		NO			
11		NO			
Alarm Output List					
No.	Alarm Name	Alarm Type	Delay	Status	
1		NO	5s		
2		NO	5s		
3		NO	5s		
4		NO	5s		
CH1_1		NC	5s		
CH1_2		-	-		
CH2_1		NC	5s		
CH2_2		-	-		
CH3_1		NC	5s		
CH3_2		-	-		
CH4_1		NC	5s		

VCA

It shows the VCA status.  will turn into  when alarm is triggered.

- Device Information
- Network Status
- Camera Status
- Disk Status
- Event Status
- Group Status
- Online User
- Logs
- Live View

Status
CPU 1% Memory 21%

Event Status

Camera Event
Alarm
VCA
People Counting

Channel	Name	IP Address	Region Entrance	Region Exiting	Inced Motion Detect	Tamper Deflection	Line Crossing	Loitering	Limon Detect	Object Left/Removed
1	CAM1	192.168.7.100	...	...	...	...	...	...	...	...
2	CAM2	192.168.14.102	...	...	...	...	...	...	...	...
3	CAM3	192.168.7.104	...	...	...	...	...	...	...	...
4	CAM4	192.168.10.18	...	...	...	...	...	...	...	...
5	CAM5	192.168.14.105	...	...	...	...	...	...	...	...
6	CAM6	192.168.9.211	...	...	...	...	...	...	...	...
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	...	...	...	...	...	...	...	...
12	CAM12	192.168.7.119	...	...	...	...	...	...	...	...
13	CAM13	-	...	...	...	...	...	...	...	...
14	CAM14	-	...	...	...	...	...	...	...	...
15	CAM15	-	...	...	...	...	...	...	...	...
16	CAM16	-	...	...	...	...	...	...	...	...
17	CAM17	-	...	...	...	...	...	...	...	...
18	CAM18	-	...	...	...	...	...	...	...	...
19	CAM19	-	...	...	...	...	...	...	...	...
20	CAM20	-	...	...	...	...	...	...	...	...
21	CAM21	-	...	...	...	...	...	...	...	...
22	CAM22	-	...	...	...	...	...	...	...	...
23	CAM23	-	...	...	...	...	...	...	...	...
24	CAM24	-	...	...	...	...	...	...	...	...
25	CAM25	-	...	...	...	...	...	...	...	...

People Counting

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

- Device Information
- Network Status
- Camera Status
- Disk Status
- Event Status
- Group Status
- Online User
- Logs
- Live View

Status
CPU 3% Memory 21%

Event Status

Camera Event
Alarm
VCA
People Counting

Channel	Name	IP Address	In Count	Out Count
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	-	-
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
12	CAM12	192.168.7.119	-	-
13	CAM13	-	-	-
14	CAM14	-	-	-
15	CAM15	-	-	-
16	CAM16	-	-	-
17	CAM17	-	-	-
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.

The screenshot shows the 'Status' page of the Milesight NVR interface. The left sidebar contains navigation options: Device Information, Network Status, Camera Status, Disk Status, Event Status, Group Status (highlighted), Online User, Logs, and Live View. The main content area is titled 'Group Status' and features a table with columns for Group, Disk, and Channel. The table lists 16 groups, with Group 1 having a Disk status of '-' and a Channel of '1,2'. Other groups (2-16) have '-' for both Disk and Channel. The top right corner displays system metrics: CPU at 2% and Memory at 21%.

Group	Disk	Channel
1	-	1,2
2	3	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-

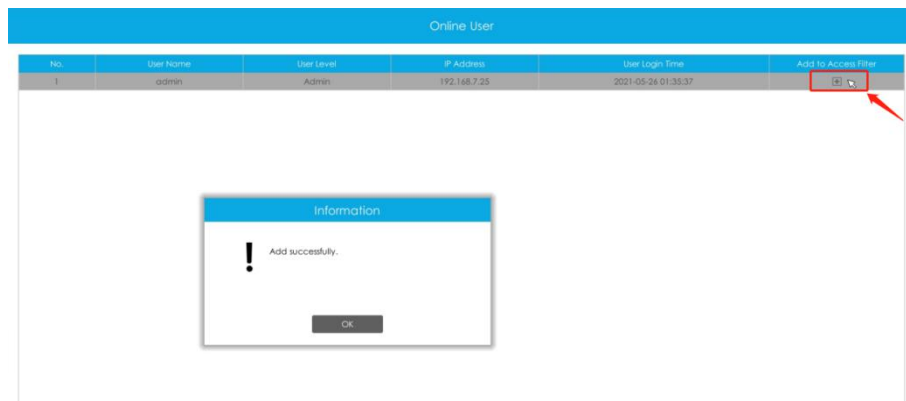
3.10.7 Online Users

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.

The screenshot shows the 'Status' page of the Milesight NVR interface, specifically the 'Online User' section. The left sidebar is the same as in the previous screenshot, but 'Online User' is highlighted. The main content area is titled 'Online User' and displays a table with columns: No., User Name, User Level, IP Address, User Login Time, and Add to Access Filter. One user is listed: 'admin' with User Level 'Admin', IP Address '192.168.7.25', and User Login Time '2021-06-24 23:04:46'. The top right corner shows system metrics: CPU at 0% and Memory at 27%.

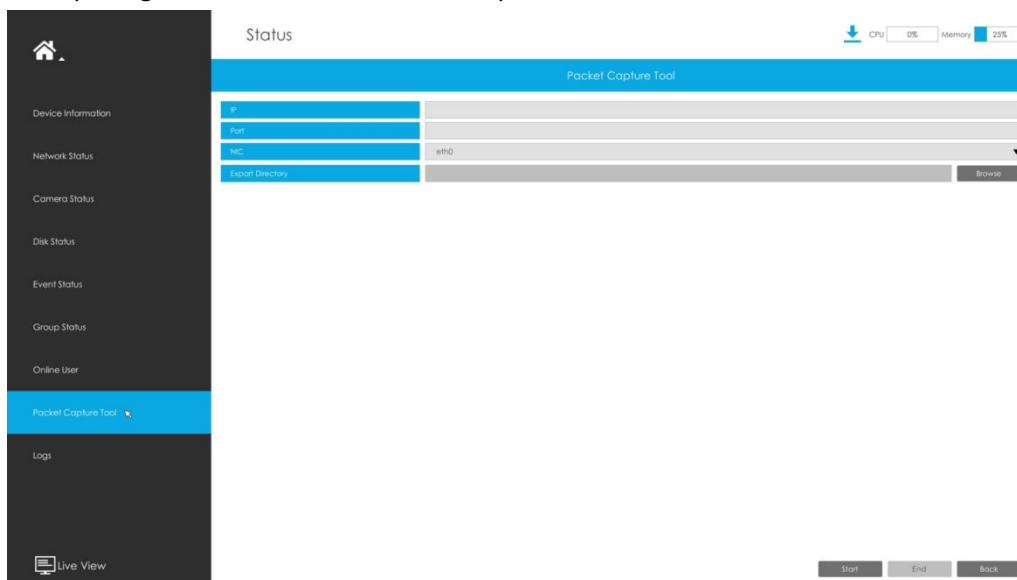
No.	User Name	User Level	IP Address	User Login Time	Add to Access Filter
1	admin	Admin	192.168.7.25	2021-06-24 23:04:46	<input type="checkbox"/>

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.



Note:

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.

The screenshot shows the 'Status' page of the Milesight web interface. The left sidebar contains navigation options: Device Information, Network Status, Camera Status, Disk Status, Event Status, Group Status, Online User, Packet Capture Tool, Logs (highlighted), and Live View. The main content area is titled 'Status' and includes a 'Logs' section. At the top right, there are CPU (1%) and Memory (27%) usage indicators. Below the 'Logs' header, there are filters for Start Time (2021-06-01), End Time (2021-06-24), Channel (All), Main Type (All), and Sub Type (All). A table with columns No., Main Type, Time, Sub Type, Parameter, Channel, User, and Details is visible but empty. At the bottom, there are 'Export', 'Search', and 'Back' buttons.

Click **Export** to export searched logs to media device.

The screenshot shows the 'Status' page with the 'Logs' section. A 'Device' dialog box is open, displaying a file explorer view of the storage device. The dialog box has a 'Device' section showing 'Root Disk: 34%' and 'Free: 5.0G, Total: 7.6G'. Below this is a table of files and folders. The 'Operation' section includes 'New Folder', 'Format', and 'Refresh' buttons. The 'Directory' field shows '/media/sub_L1'. The 'Export' button is highlighted. The background shows the 'Logs' section with a table of log entries.

No.	Main Type	Time	Sub Type	Parameter	Channel	User	Details
18	Exception	2021-02-23 00:23:16	Record Failed	N/A	7	N/A	
19	Exception	2021-02-23 00:23:16	Record Failed	N/A	6	N/A	
20	Exception	2021-02-23 00:23:16	Record Failed	N/A	5	N/A	
21	Exception	2021-02-23 00:23:16	Record Failed	N/A	4	N/A	

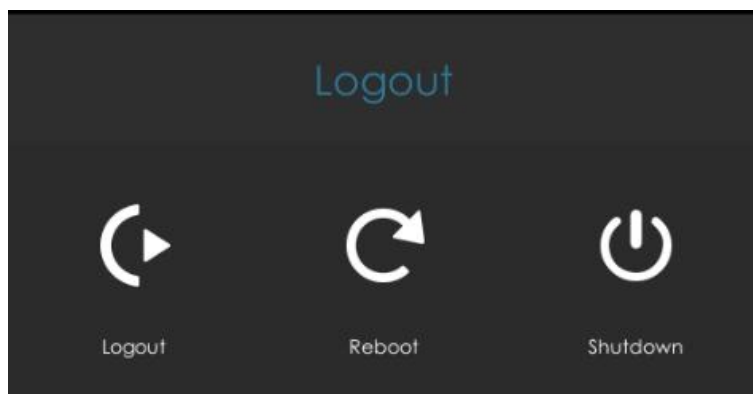
In particular, for the following types of events, the Information about detection object that triggers the event is displayed in the Log Information.

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

Details	
Time	2020-10-27 00:37:53
Type	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



Logout: Exit the current login account.

Reboot: Restart the NVR.

Shutdown: Close the NVR.

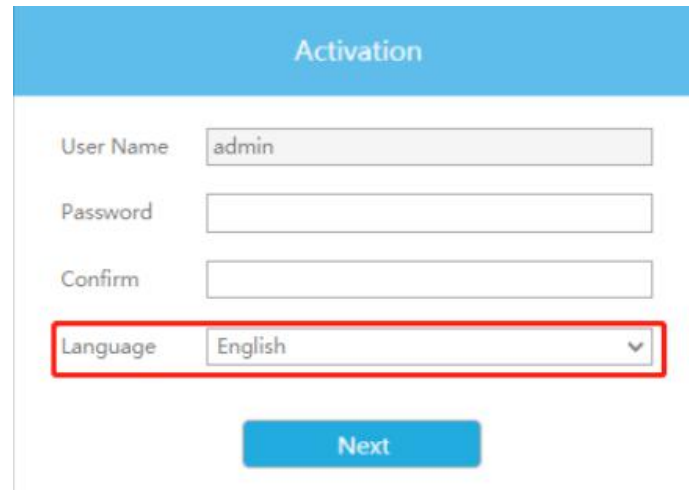
4.WEB Settings

4.1 Account Setting

Note:

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

Step1. Set password to active admin account.



The screenshot shows the 'Activation' interface. It has a blue header with the title 'Activation'. Below the header, there are four input fields: 'User Name' (containing 'admin'), 'Password', 'Confirm', and 'Language' (a dropdown menu showing 'English'). A red rectangular box highlights the 'Language' dropdown menu. At the bottom center, there is a blue button labeled 'Next'.

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.

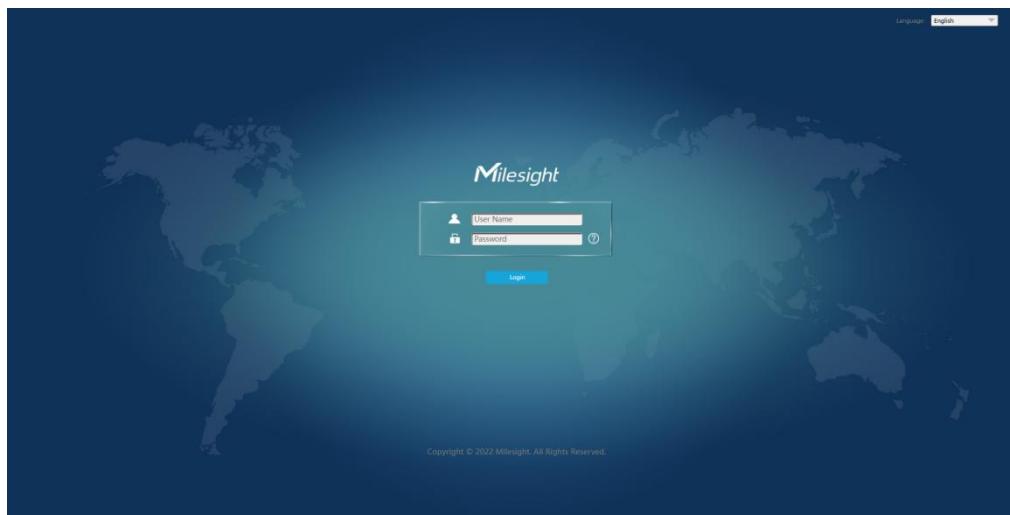


The screenshot shows the 'Security Question Setting' interface. It has a blue header with the title 'Security Question Setting'. Below the header, there are three sets of question and answer fields. Each set consists of a dropdown menu for the question (all showing 'What's your father's name?') and a text input field for the answer. At the bottom, there are two blue buttons: 'Skip' and 'Finish'.

4.2 Login

Select Language on the top-right of interface.

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



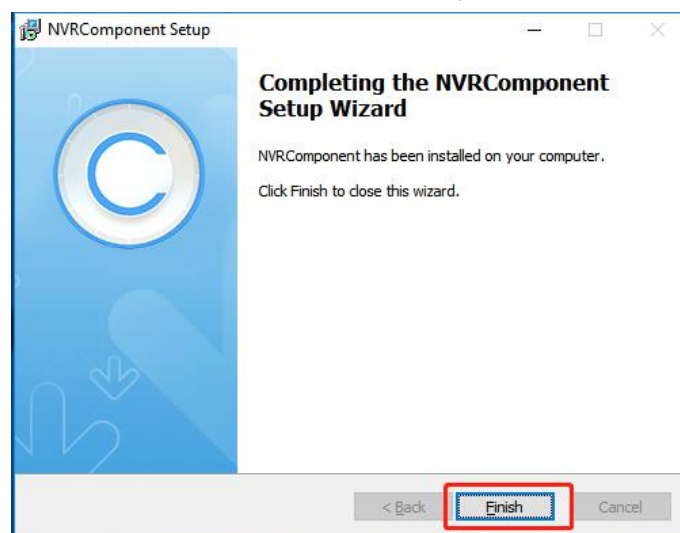
Note:

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.
3. If the firmware version of NVR is below V7x.9.0.14, only H.264 video codec is 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 Tertiary 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
Profile :	Main
I-frame Interval :	50 frame (1-120)

Save

If the firmware version of NVR is V7x.9.0.14 or above, H.265 video codec is supported on Plugin-Free Mode for NVR.

Note:

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

Primary Stream When Fullscreen

Note: Plugin-Free mode only supports H.264.

Save

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

Reset Password

Please fill in the answers for authentication.

Question1:

Answer1:

Question2:

Answer2:

Question3:

Answer3:

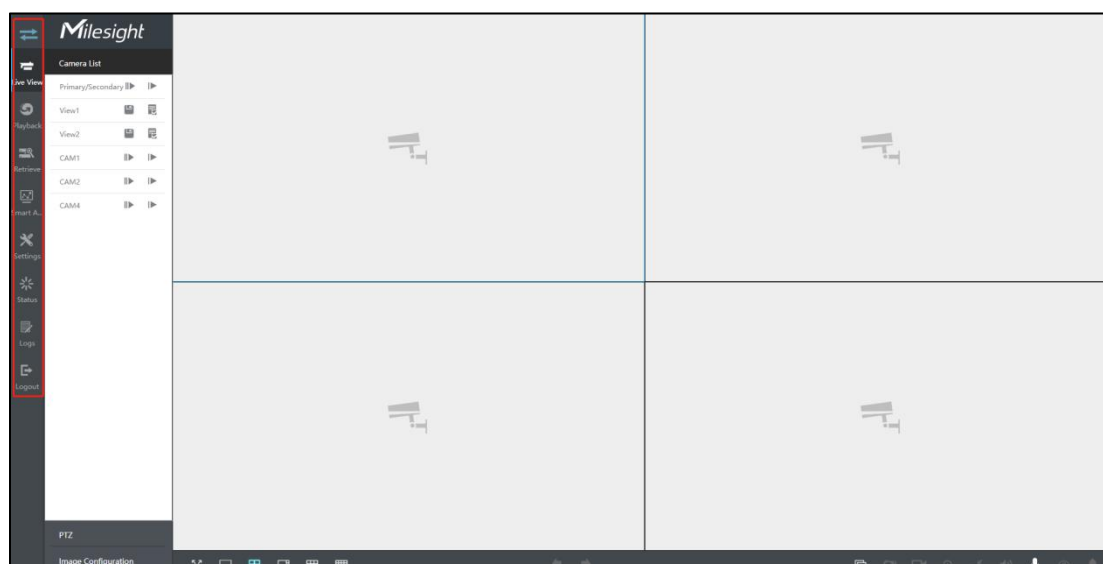
Next


Cancel









Note:

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

4.3 Menu




Icons	Descriptions
	Hide or show secondary menu

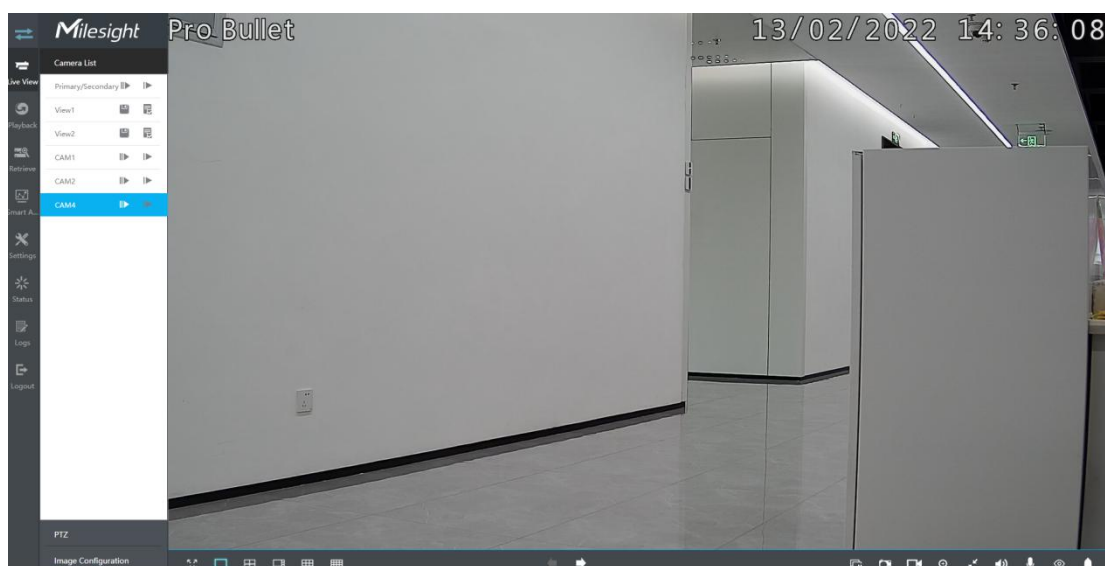
 Live View	Live view
 Playback	Play back the video
 Retrieve	Back Up Files
 Smart An...	Smart Analysis
 Settings	Make settings for Camera, Record, Event and System
 Status	Check Device Information, Network Status, Camera Status, Disk Status and Event Status
 Logs	Check all operation logs
 Logout	Log out NVR

4.4 Live View
























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.

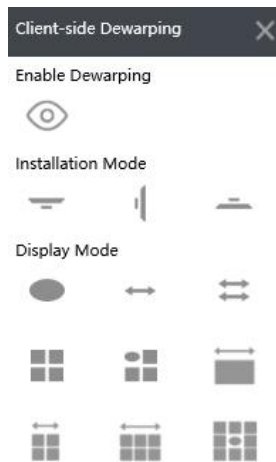


Icons' descriptions of Live View

Icons	Descriptions	Icons	Descriptions
	Play Primary Stream		Play Secondary Stream
	Save View		Play default view
	Full screen		1 screen mode
	4 screens mode		8 screens mode
	9 screens mode		16 screens mode
	Previous page		Next page
	Stop all live view		Start all live view
	Digital zoom		Fisheye Client-side Dewarping
	Snapshot		Record
	Audio on		Audio off
	Two-way Audio		Original Image
	Resize Image		


Fisheye Client-side Dewarping

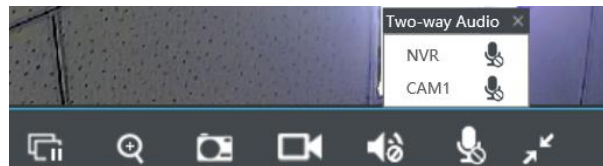
Click  to enable Client-side Dewarping on the panel that pops up when the selected channel plays successfully. Users can dewarp the original Fisheye view into various modes in the live view interface on demand, including Installation Mode and Display Mode. There are 3 options for Installation Mode: Ceiling, Wall and Flat. And there are 9 options for Display Mode: 1O, 1P, 2P, 4R, 1O3R, 1P1R, 1P4R, 1P6R, and 1O8R.

**Note:**

Make sure your NVR model is MS-NXXXX-U(P)H.




Two-way Audio

Click  to enable Two-way Audio. You can select to talk with camera or NVR.

**Note:**

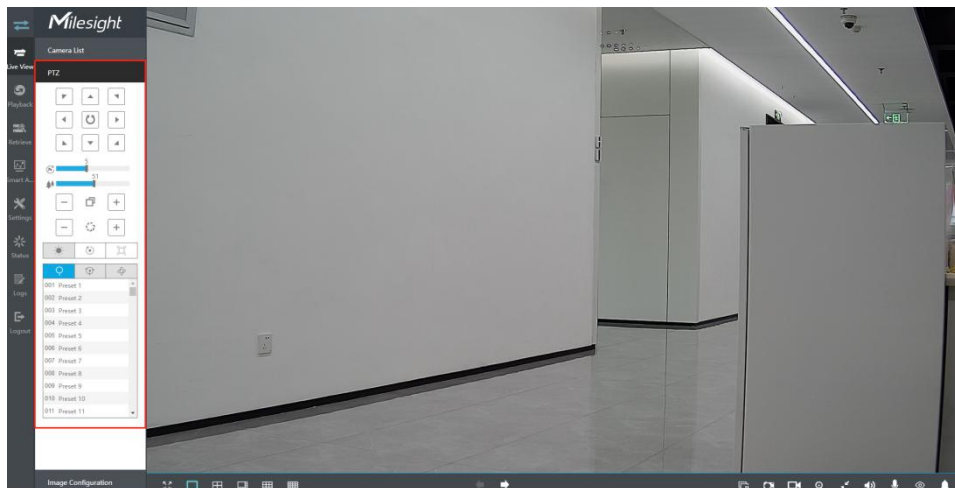
1. For NVR that does not support the Audio I/O interface, it only supports to talk with camera through Web page.
2. The Two-way Audio only supports one channel talking at one time.
3. Two-way Audio and Audio function can not be used together, including Audio of Playback, but if you are using Two-way 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
	It indicates video loss
	It indicates motion detection alarm
	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.

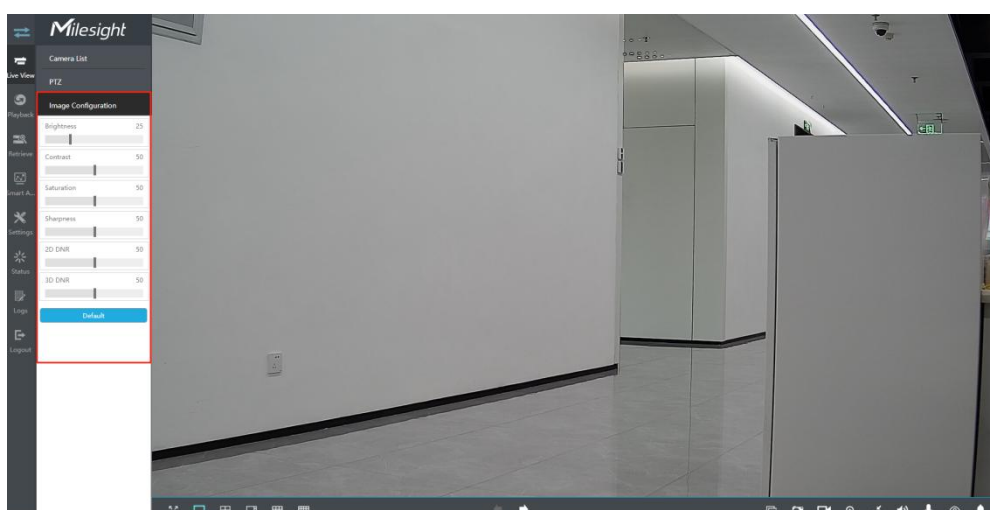


Note:

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.



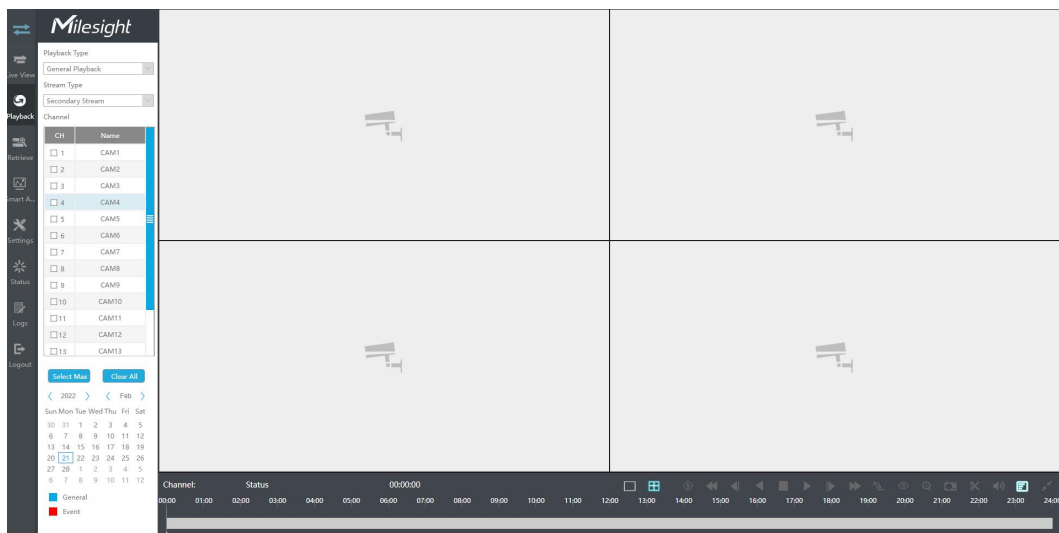
4.5 Playback

To play and backup the recorded files.

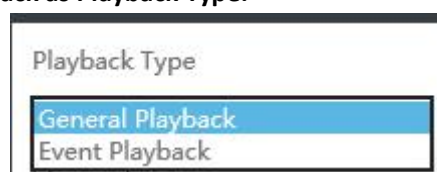


4.5.1 How to playback

4.5.1.1 General Playback



Step 1. Select General Playback as Playback Type.



Step 2. Select Stream Type, including Primary Stream and Secondary Stream.



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.

Playback Type
General Playback

Stream Type
Secondary Stream

Channel

CH	Name
<input type="checkbox"/> 1	CAM1
<input type="checkbox"/> 2	CAM2
<input type="checkbox"/> 3	CAM3
<input checked="" type="checkbox"/> 4	CAM4
<input type="checkbox"/> 5	CAM5
<input type="checkbox"/> 6	CAM6
<input type="checkbox"/> 7	CAM7
<input type="checkbox"/> 8	CAM8
<input type="checkbox"/> 9	CAM9
<input type="checkbox"/> 10	CAM10
<input type="checkbox"/> 11	CAM11
<input type="checkbox"/> 12	CAM12
<input type="checkbox"/> 13	CAM13

Select Max Clear All

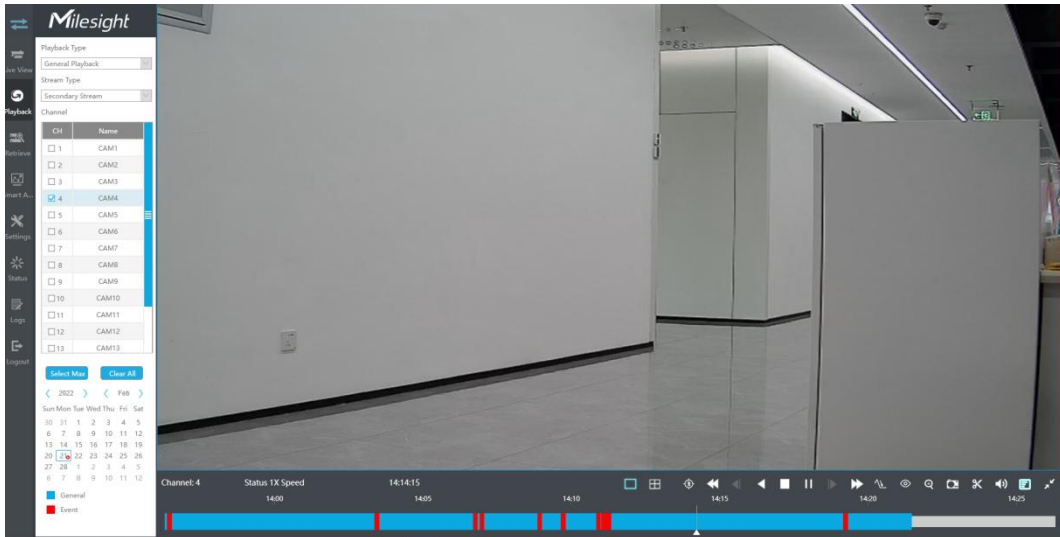
< 2022 > < Feb >

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	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	1	2	3	4	5
6	7	8	9	10	11	12

General
Event

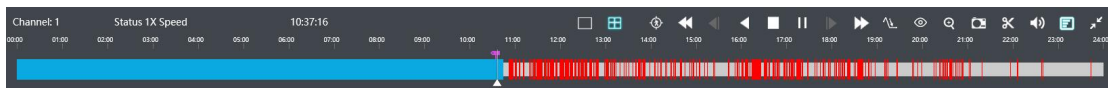
Step 4. Select Date.**Step 5. Click  to play.****Note:**

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.

Icons	Descriptions	Icons	Descriptions
	1 screen mode		4 screens mode
	Smart Search		Speed Down
	Step Reverse		Rewind

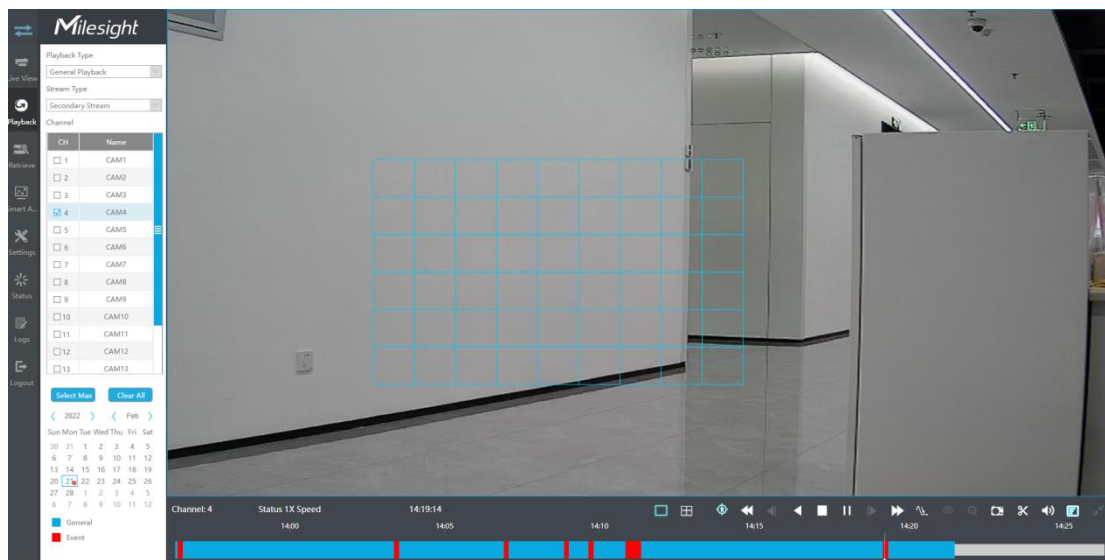
	Stop		Play
	Pause		Step Forward
	Speed Up		Transcoding
	Client-side Dewarping		Digital Zoom
	Snapshot		Backup
	Audio On		Audio Off
	Display of POS information		Original Image
	Resize Image		

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.

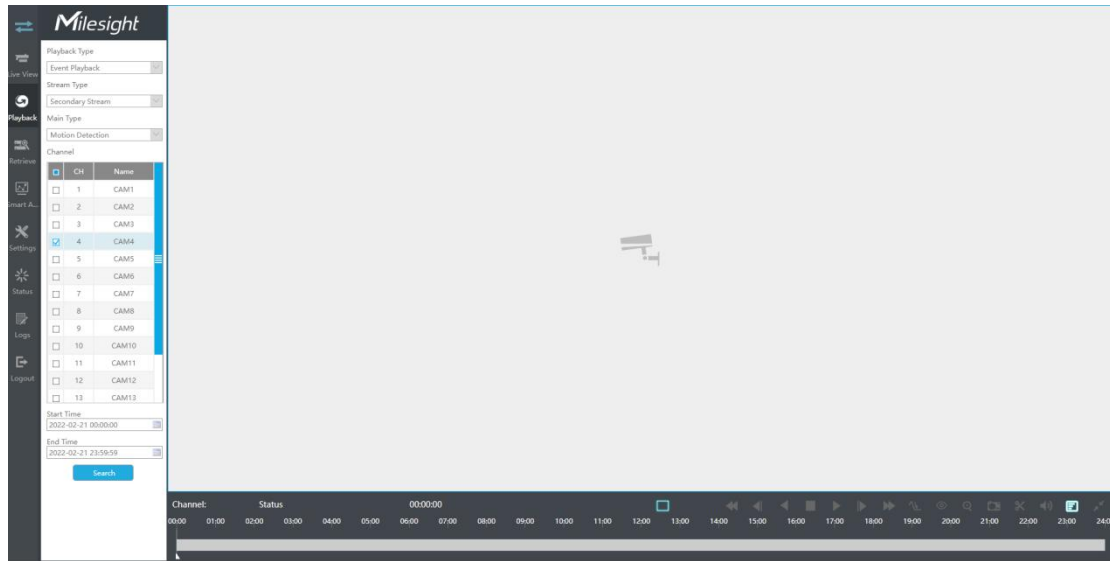
(3) Draw an area in the frame and NVR would play the video files after searching out all motion events of the area.



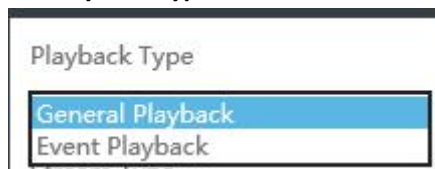
Note:

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.



Step 2. Select Stream Type, including Primary Stream and Secondary Stream.



Step 3. 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

Playback Type
Event Playback

Stream Type
Primary Stream

Main Type
VCA

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.

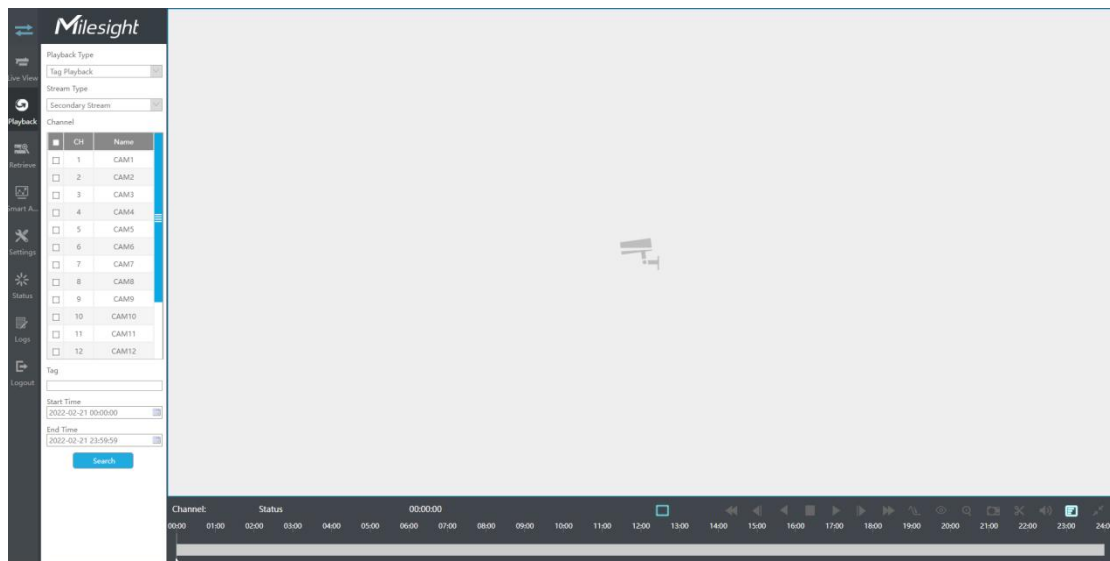
Start Time
2020-08-10 00:00:00

End Time
2020-08-10 23:59:59

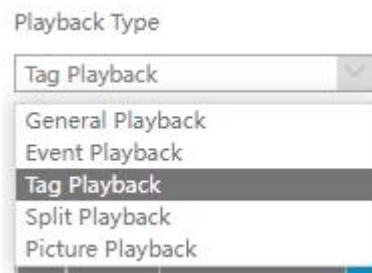
Step 6. Click **Search** to search files.

Step 7. Click  to play.

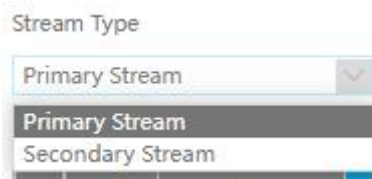
4.5.1.3 Tag Playback



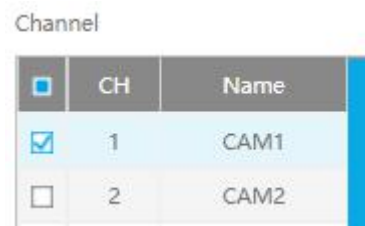
The screenshot shows the Milesight web interface for Tag Playback. On the left sidebar, there are navigation icons for Playback, Channel, and Tag. The main content area is divided into several sections: Playback Type (Tag Playback), Stream Type (Secondary Stream), Channel (a list of 12 channels from CAM1 to CAM12), Start Time (2022-02-21 00:00:00), End Time (2022-02-21 23:59:59), and a Search button. Below these fields is a large video player area with a play button icon. At the bottom, there is a timeline for playback from 00:00 to 24:00.



Step 1. Select Tag Playback as playback type.**Step 2. Select Stream Type.**

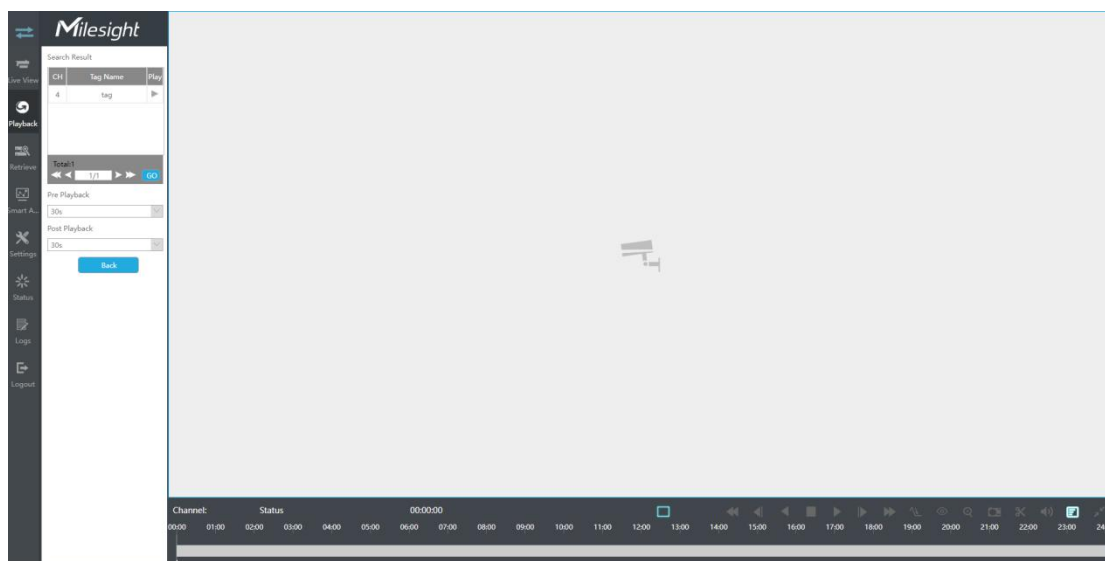
Primary Stream and Secondary Stream are available.

**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.

**Step 4. Input tag name or any key words of tag.****Step 5: Select Start Time and End Time.**

Step 6: It would list all tagged video after clicking . Set pre playback and post playback time, then play the tag video by clicking .



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

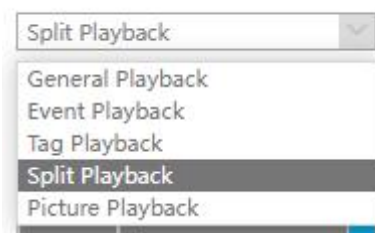
4.5.1.4 Split Playback

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.



Step 1. Select Split Playback as playback type.

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.

Channel

CH	Name
<input checked="" type="radio"/> 1	CAM1
<input type="radio"/> 2	CAM2

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

Start Time

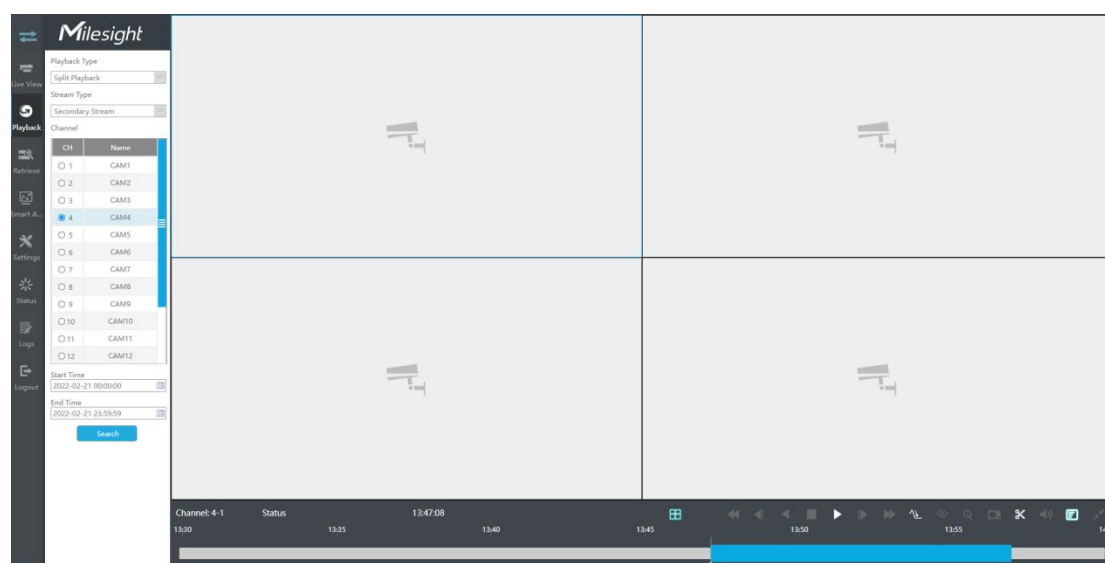
End Time

Step 5: Click

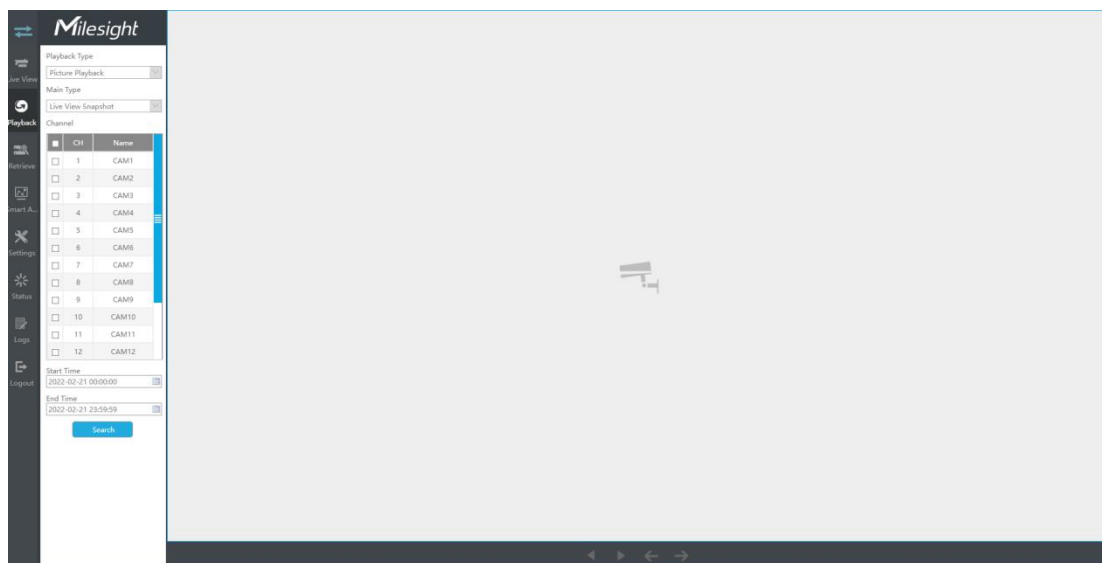
and click



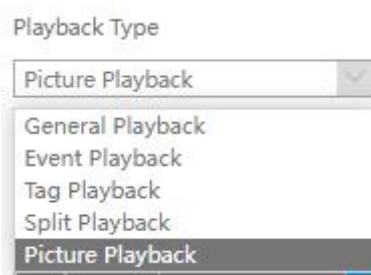
, It would be displayed in 4 split screens by default.



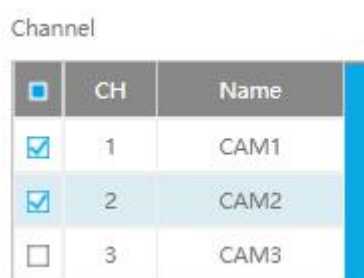
4.5.1.5 Picture Playback



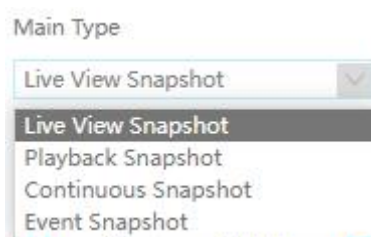
Step 1. Select Picture Playback as playback type.



Step 2. Select channel.



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

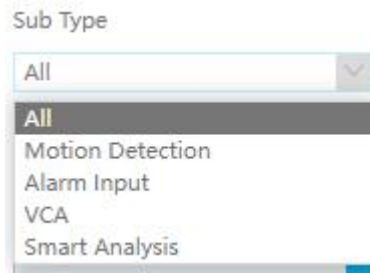


Live View Snapshot and Playback Snapshot refer to the picture file manually captured in Live View and Playback page.

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.

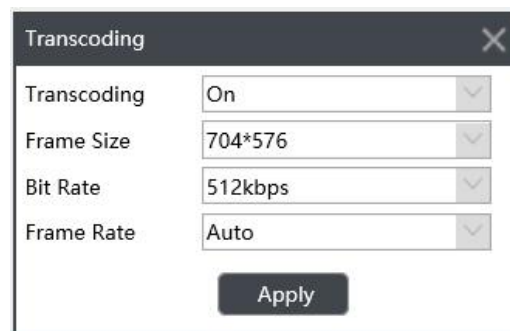


Step 5: It would list all snapshot after clicking , click  to play the selected picture.

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 transcoding panel.



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  to make transcoding take effect.

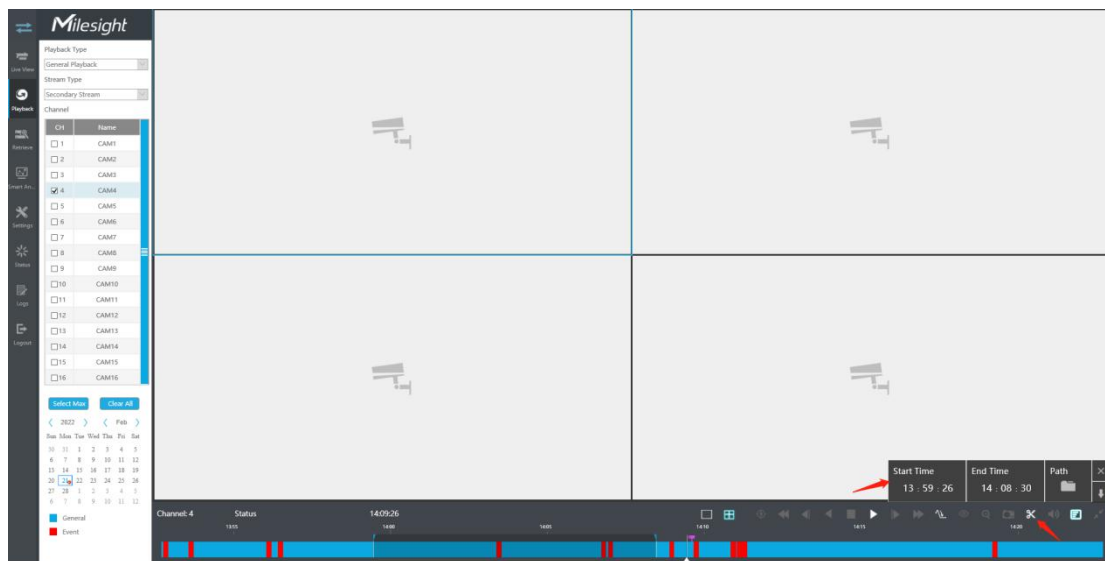
4.5.3 Video Files Backup

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.

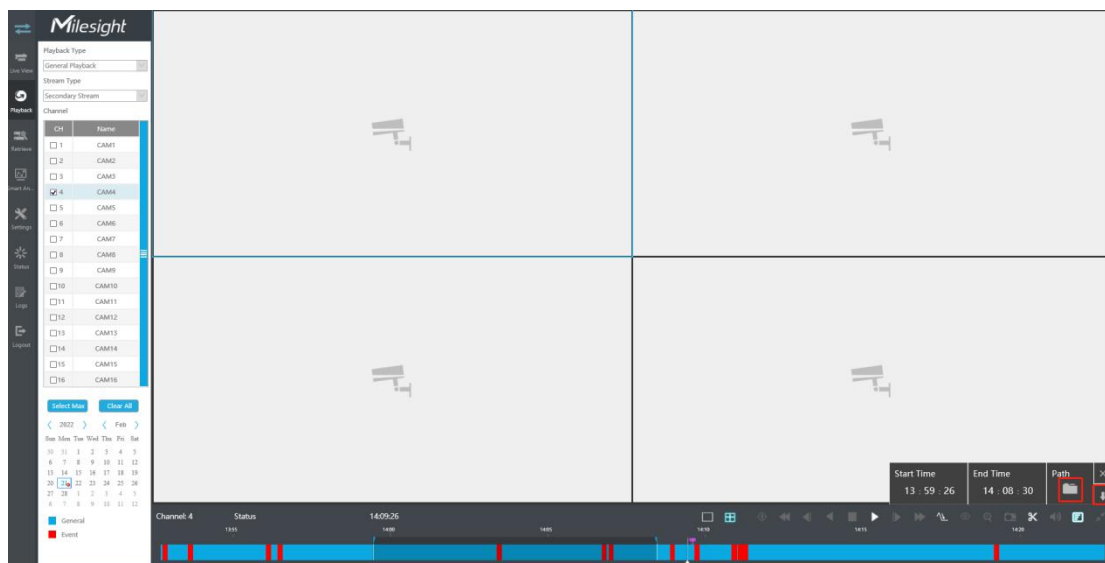
Step 2. Select Recorded files for Backup.

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



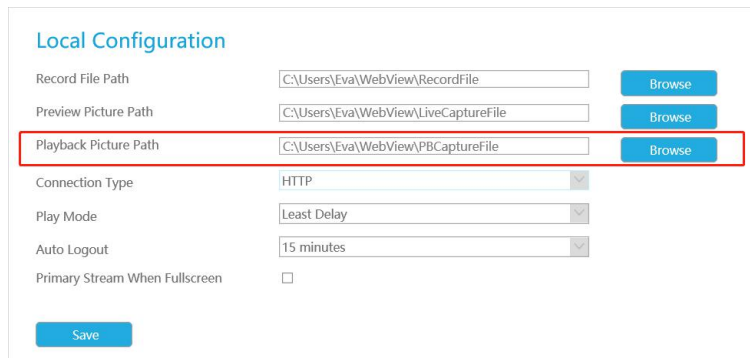
Step 3. Backup the recorded files.

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.

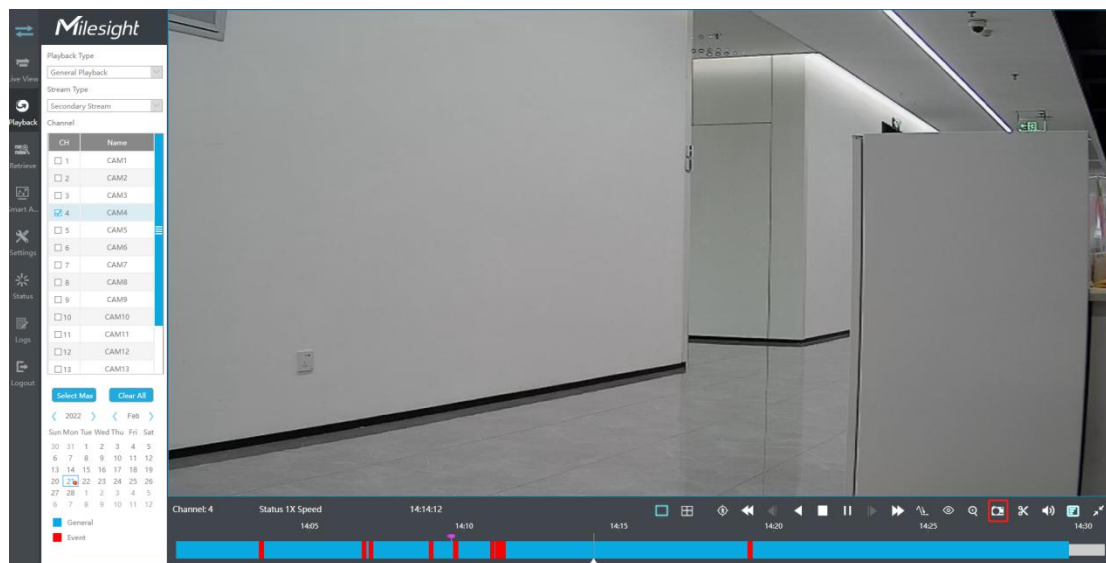


The screenshot shows the 'Local Configuration' window with several fields. The 'Playback Picture Path' field is highlighted with a red rectangular box. The path entered is 'C:\Users\Eva\Webview\PBCaptureFile'. Other fields include 'Record File Path', 'Preview Picture Path', 'Connection Type' (HTTP), 'Play Mode' (Least Delay), 'Auto Logout' (15 minutes), and 'Primary Stream When Fullscreen' (unchecked). A 'Save' button is at the bottom.

Step 2. Click  to save the picture during video playback. Then the backup picture can be found in the files path you set before.

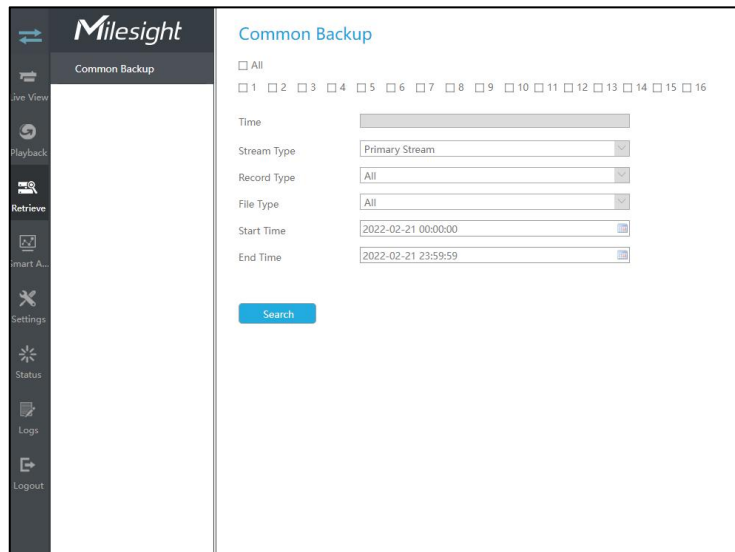
Note:

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.



Step1: Set the search condition and click [Search](#) to search video.

Common Backup

All

1 2 3 4 5 6 7 8

Time: From 2020-07-10 11:32:48 To 2020-08-10 16:37:28

Stream Type: Primary Stream

Record Type: All

File Type: All

Start Time: 2020-08-10 00:00:00

End Time: 2020-08-10 23:59:59

[Search](#)

The search result can be shown as a list.

Common Backup

	Channel	Disk	Start Time-End Time	Size	Play	Lock
<input type="checkbox"/>	4	26	2022-02-21 13:47:08-14:20:04	146.6MB	Play	Lock
<input type="checkbox"/>	4	26	2022-02-21 14:20:04-14:30:34	46.7MB	Play	Lock



Total 2 Item(s) 1/1 [GO](#)

[Backup All](#) [Backup](#) [Back](#)

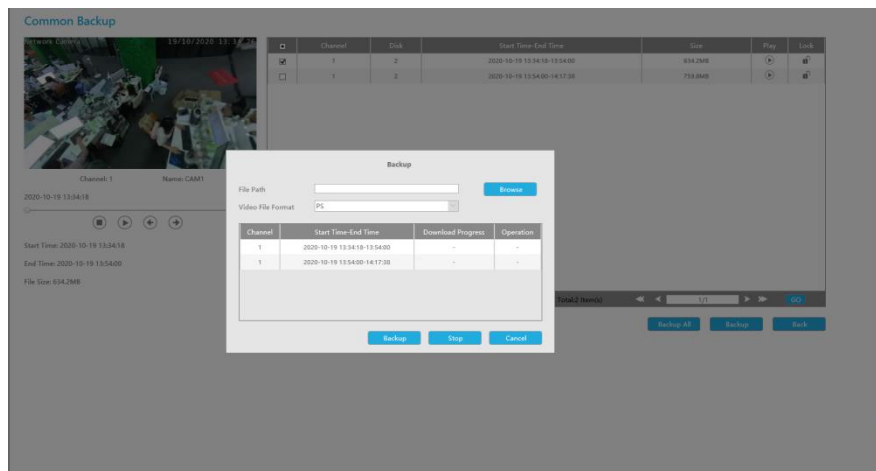
Step2: Select the file you want to backup and click [Backup](#). Also, you can click

Backup All

to backup all recorded videos.

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

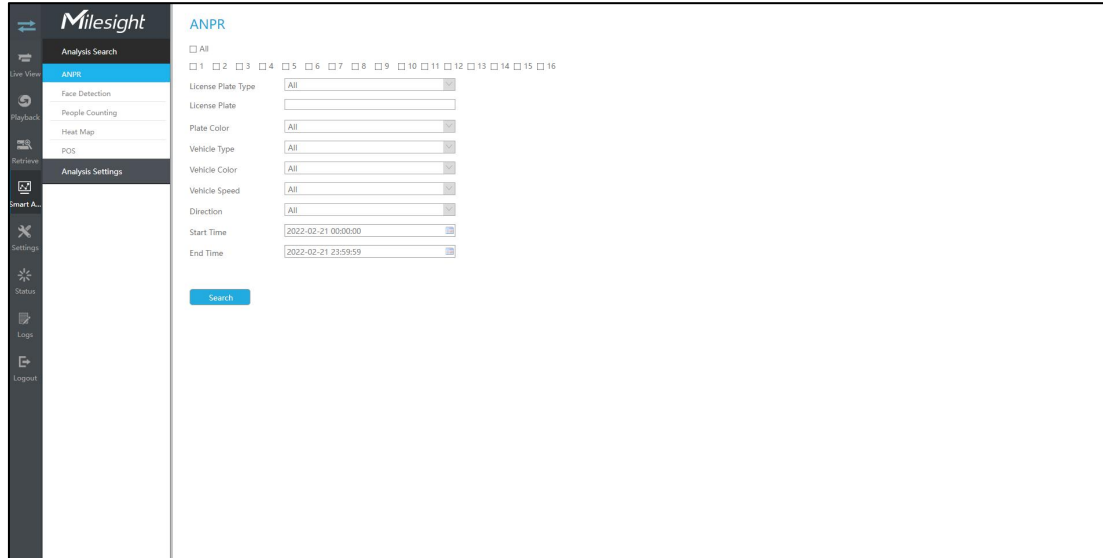
You can get ANPR logs, Face Detection Results, People Counting results and Heat Map results in the page, as well as Settings for ANPR, Face Detection, People Counting and Heat Map.




4.7.1 Analysis Search

4.7.1.1 ANPR

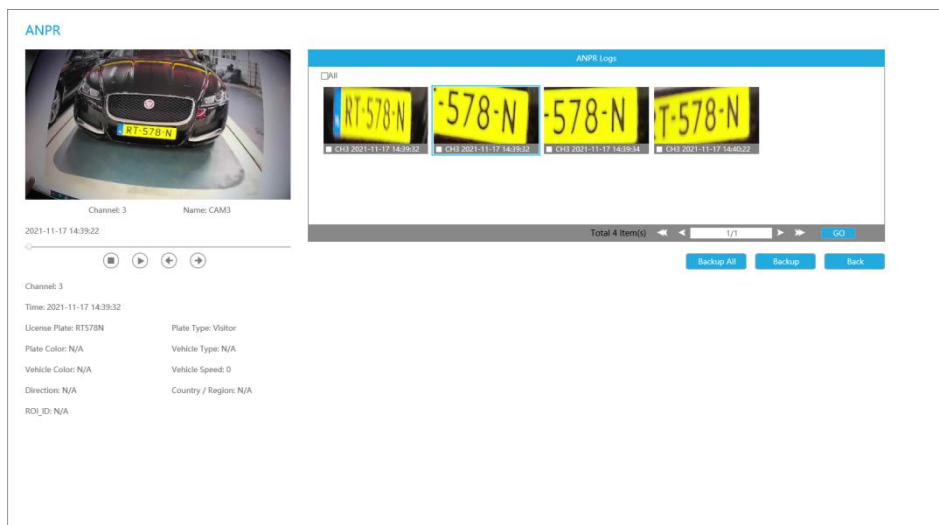
You can Search and Backup ANPR logs.



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. Users can also filter ANPR results by Plate Color, Vehicle Type, Vehicle Color, Vehicle Speed and Direction.

Note:

Ensure that your NVR model is MS-NXXXX-XXT or MS-NXXXX-XXH.





You can click  to play the video.



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 .

- ② Backup all.

Step 1: Click backup all  button;

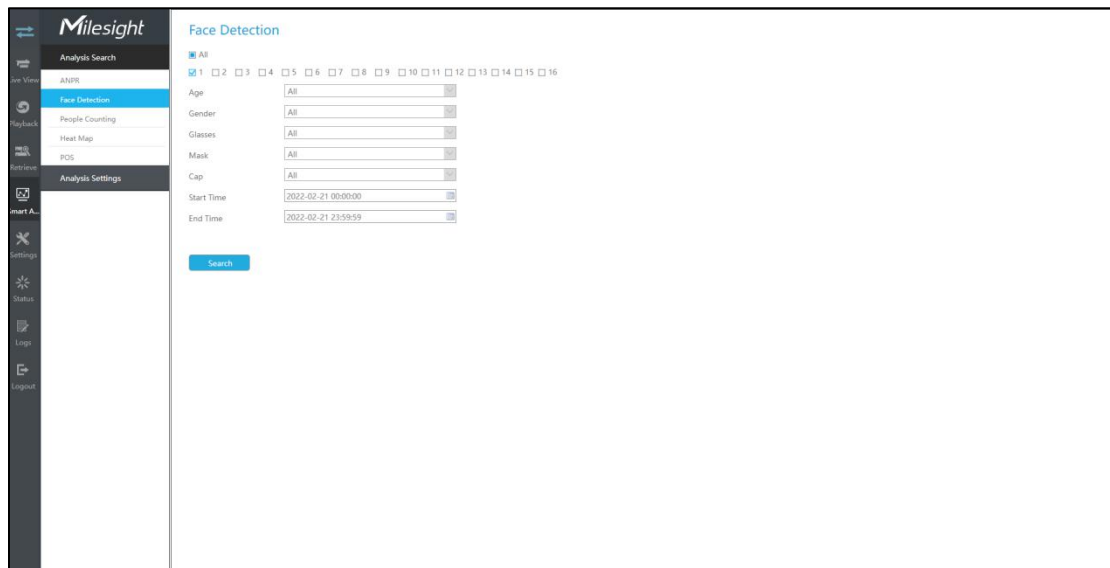
Step 2: Select the export file type, video stream type and video file format, then click export button.


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 Face Detection

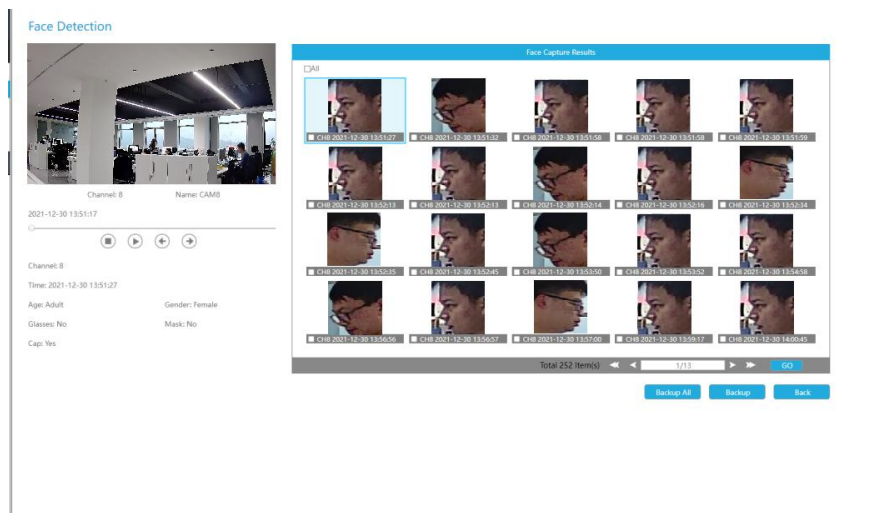
You can Search and Backup the results of Face Detection.




Input corresponded information and click search button  to search and you will get the results of Face Detection. Face snapshots will be shown on the results list while the complete image video and face attribute information will be shown on the left of the page. Users can filter Face Detection results by Face Attributes including Age, Gender, Glasses, Mask and Cap.

Note:

- Make sure your camera is AI Series and version is V4x.7.0.79-r25 or above.
- Make sure your NVR model is MS-Nxxxx-xxT/H.



You can click  to play the video.



There are two methods to backup Face Detection results.

① Backup Face Detection logs you want.

Step1: Tick the face detection results you want to backup and click backup button

Backup

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

② Backup all.

Backup All

Step1: Click backup 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.

4.7.1.3 People Counting

You can Search and Backup the results of People Counting.

Step 1: Entering search conditions.

Search Type: Select the search type first, including People Counting by Camera, People Counting by Group and Regional People Counting.

① Select "People Counting by Camera":

Channel: Select the channel.

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

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

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

② Select “People Counting by Group”:

Group: Select the groups.

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.

③ Select “Regional People Counting”:


Channel: Select the channel.

Region: Select the regions.

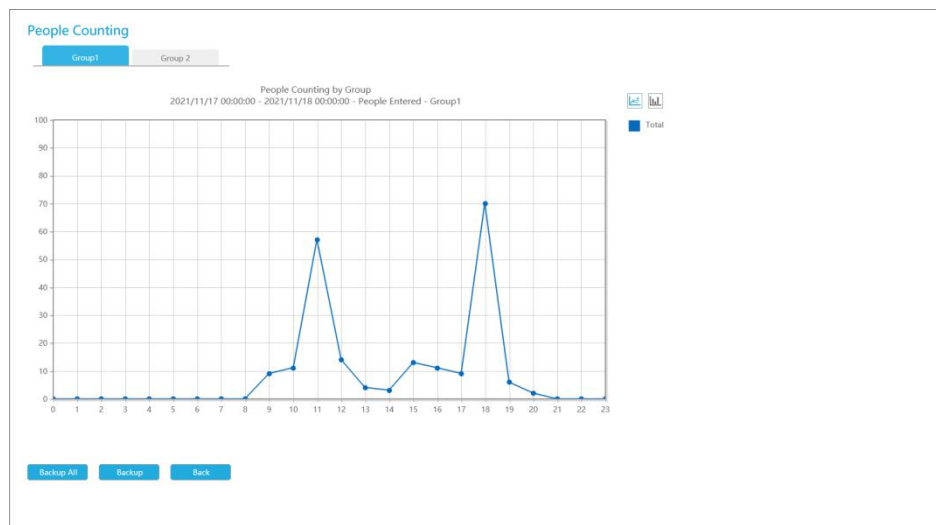
Length of Stay: Choose the length of stay.

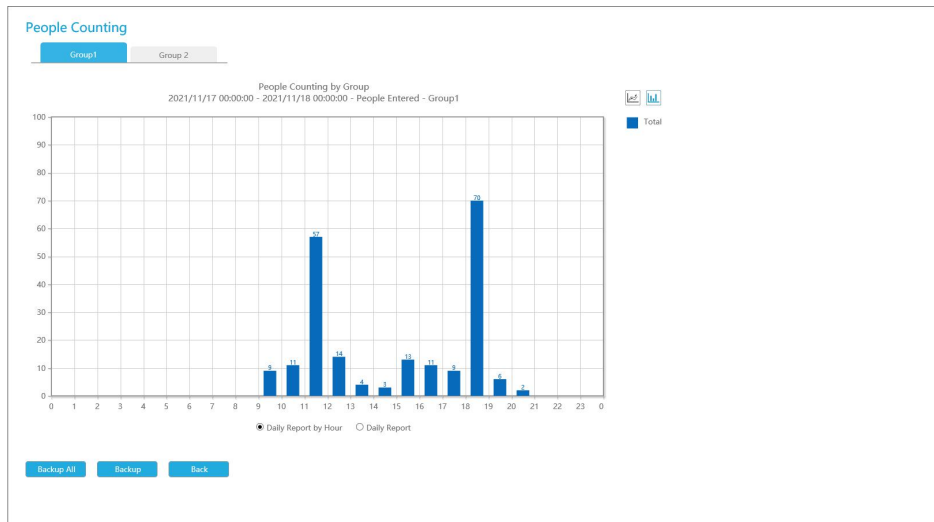
Report Type: Daily Report, Weekly Report and Monthly Report are available.

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

Step 2: Click  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  to export it.






Step 3: You can backup the results of People Counting. For People Counting by Group, you can backup the results in two ways:

① Backup the group you want.


Step 1: Choose the group you want to backup and click backup button ;

Step 2: Select the file format, and then click backup button .

Backup

File Format:

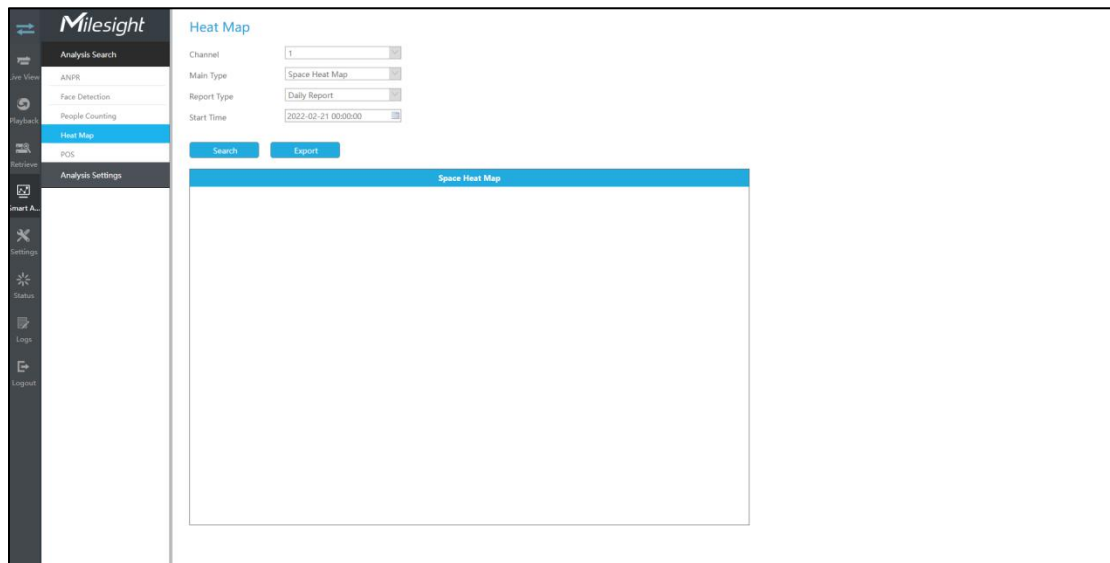
② Backup all.

Step 1: Click backup all button .

Step 2: Select the file format, and then click backup button.
Then you will get corresponding file.

4.7.1.4 Heat Map

You can Search and Export Heat Map results.

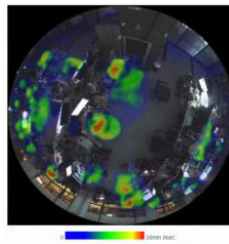


Step 1: Entering search conditions.

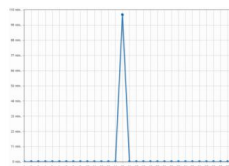
Channel: Select the channel first.

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.

Step 2: Click **Search** to obtain the corresponding result and then you can click **Export** to export it.

4.7.1.4 POS

You can Search and Backup the results of POS.




Step1: Entering search conditions.

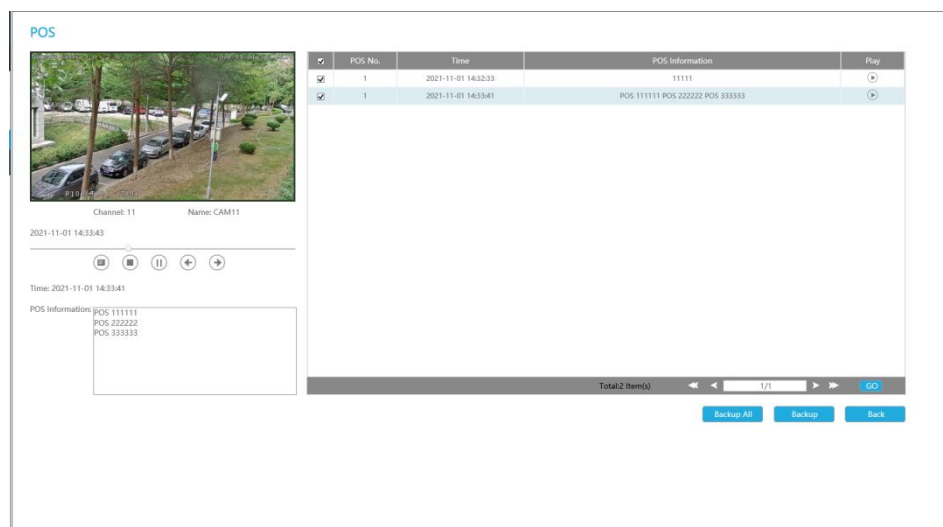
POS No.: Select the POS number first.


POS Content: Enter the POS information keywords you want to search.

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

End Time: Input the end time from which you want to search.

Step2: Click  to obtain the corresponding result.




You can click  to play the video.

2021-11-01 14:33:50



There are two methods to backup POS results.

① Backup the POS information you want.

Step1: Tick the POS information you want to backup and click backup button  ;

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

② Backup all.

Step1: Click backup all  button;

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

4.7.2 Analysis Settings

4.7.2.1 ANPR

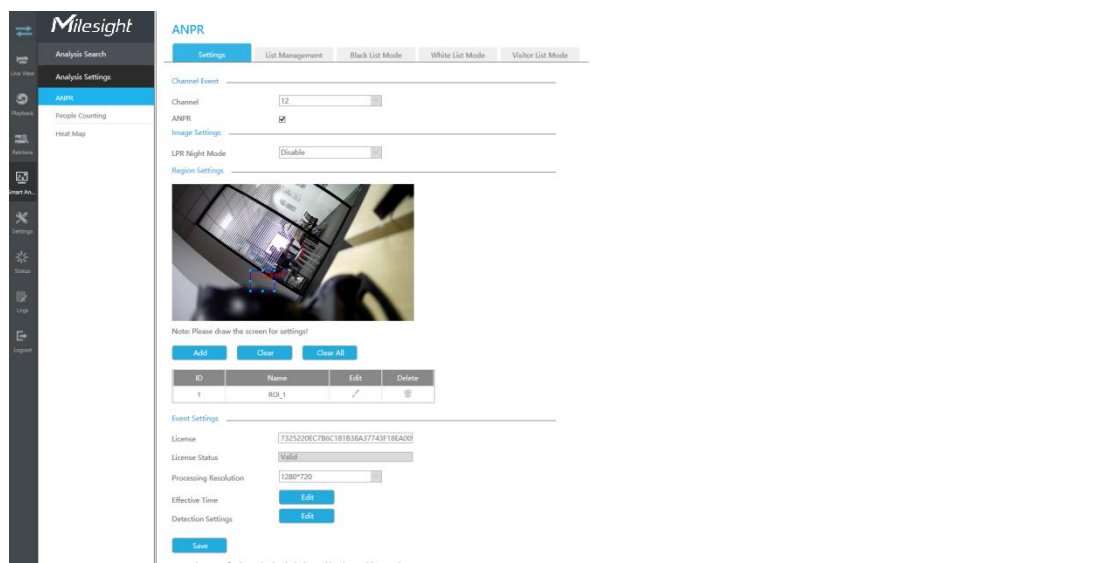
ANPR settings consist of Settings, List Management, Black List Mode, White List Mode and Visitor Mode. Here are some notes for using ANPR function.

Note:

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.

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.



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

LPR Night Mode Effective Time

Start Time

End Time

Level

Image Settings

LPR Night Mode

LPR Night Mode Effective Time

Day to Night Value

Night to Day Value

IR Light Sensor Value

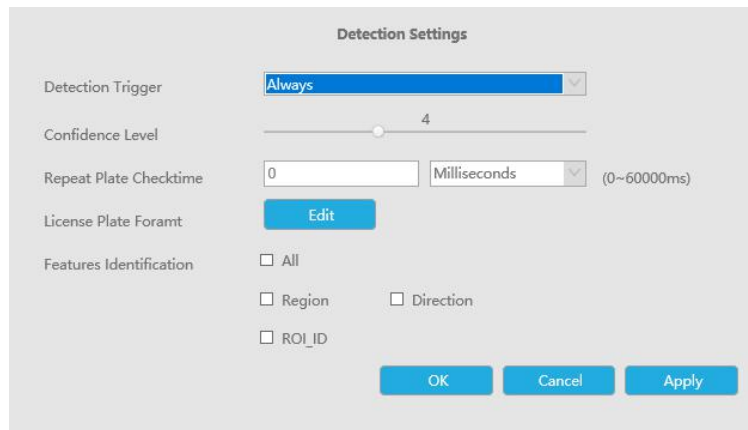
Level

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;



Detection Settings

Detection Trigger: Always

Confidence Level: 4

Repeat Plate Checktime: 0 Milliseconds (0~60000ms)

License Plate Foramt: Edit

Features Identification: All
 Region Direction
 ROI_ID

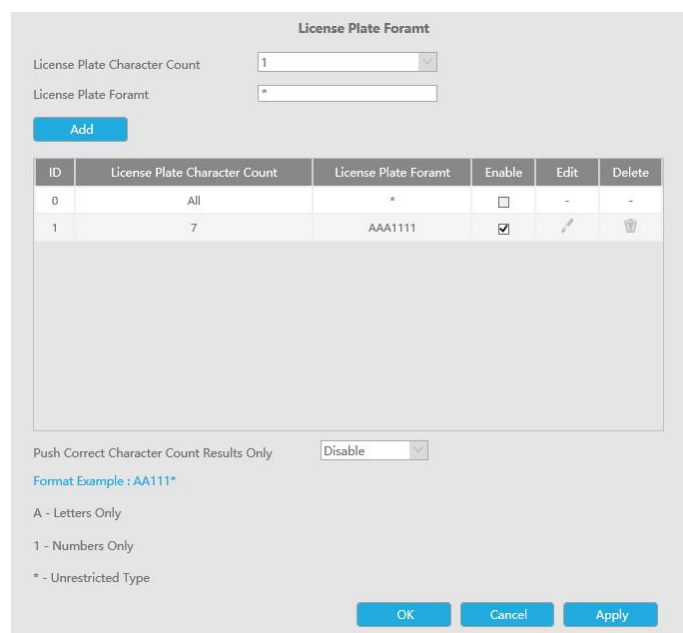
OK Cancel Apply

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 Foramt

License Plate Character Count: 1

License Plate Foramt: *

Add

ID	License Plate Character Count	License Plate Foramt	Enable	Edit	Delete
0	All	*	<input type="checkbox"/>	-	-
1	7	AAA1111	<input checked="" type="checkbox"/>		

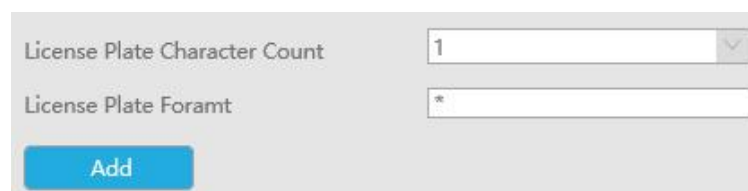
Push Correct Character Count Results Only: Disable

Format Example : AA111*

A - Letters Only
 1 - Numbers Only
 * - Unrestricted Type

OK Cancel Apply

① Click Add to add a License Plate Format.



License Plate Character Count: 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:

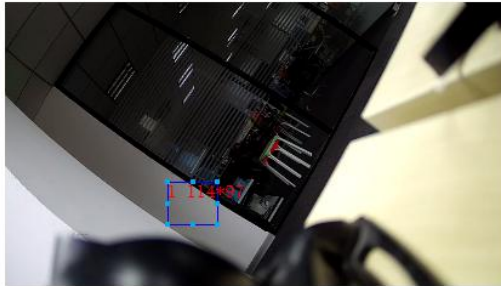
If the count of the detected license doesn't match your configuration, it will push correct character count results by completing or reducing characters automatically.

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.

Region Settings

Note: Please draw the screen for settings!

Add	Clear	Clear All	
ID	Name	Edit	Delete
1	ROI_1		

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 ;

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;

② Batch adding by importing template.

Step 1: Click [Click here to download the template.](#) to download Template;

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

	A	B
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.

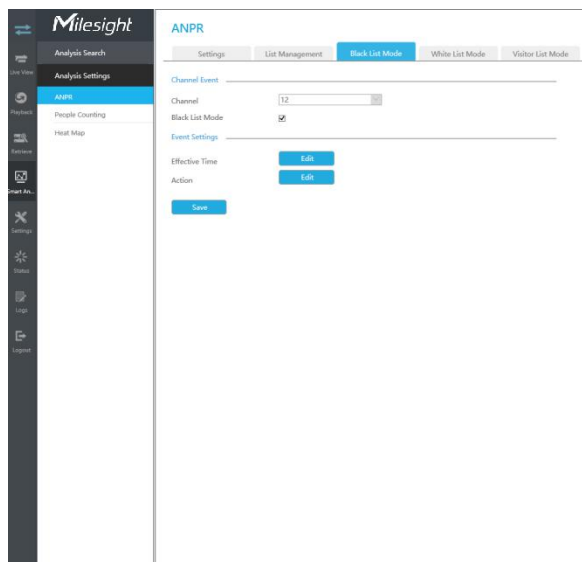
Black List Mode/White List Mode/Visitor Mode

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 warning when event is detected.

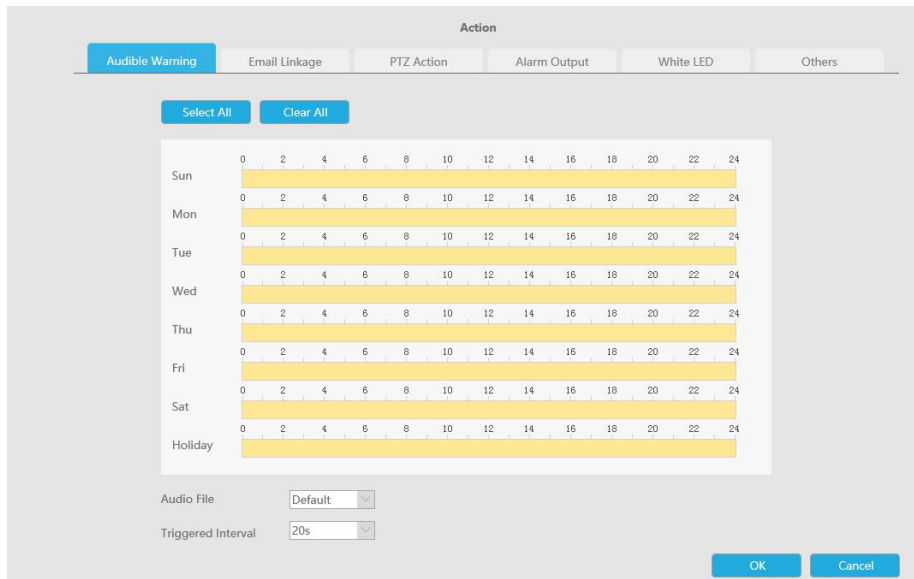
The user can set effective schedule as following two ways:

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.


Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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



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

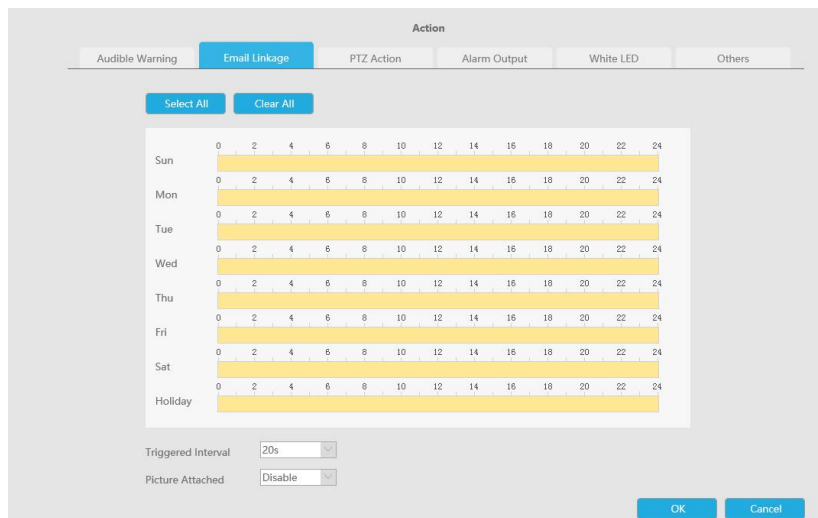
The user can set effective schedule as following two ways:

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.

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.

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.



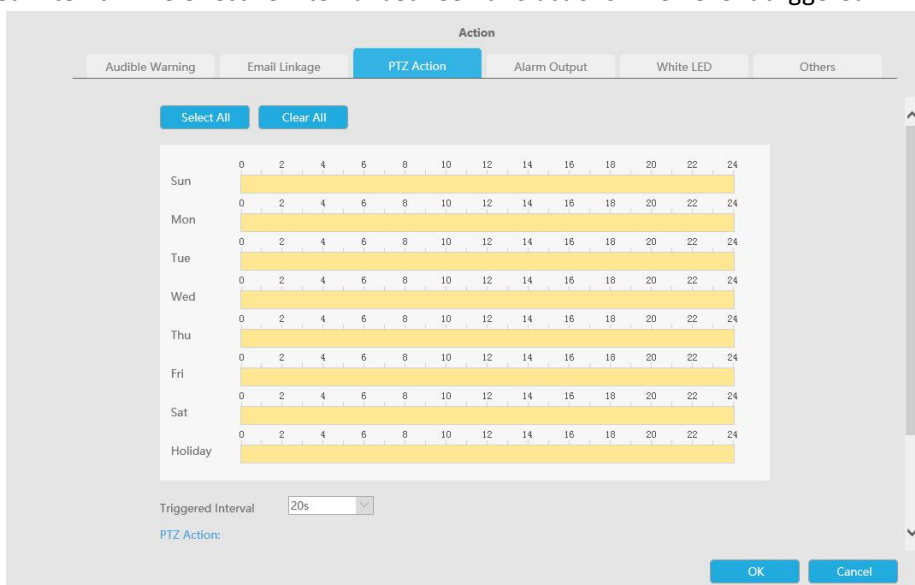
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol**.

User can set effective schedule as following two ways:

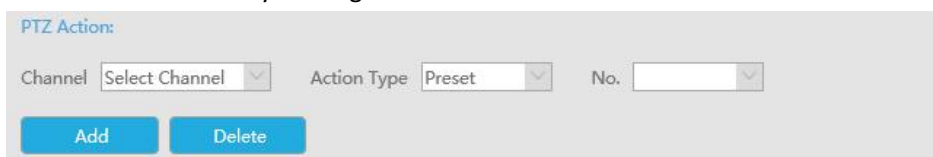
① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting. You can click  to copy the corresponding time Settings to any other time you want.

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.



And you can add PTZ Action by clicking **Add**.



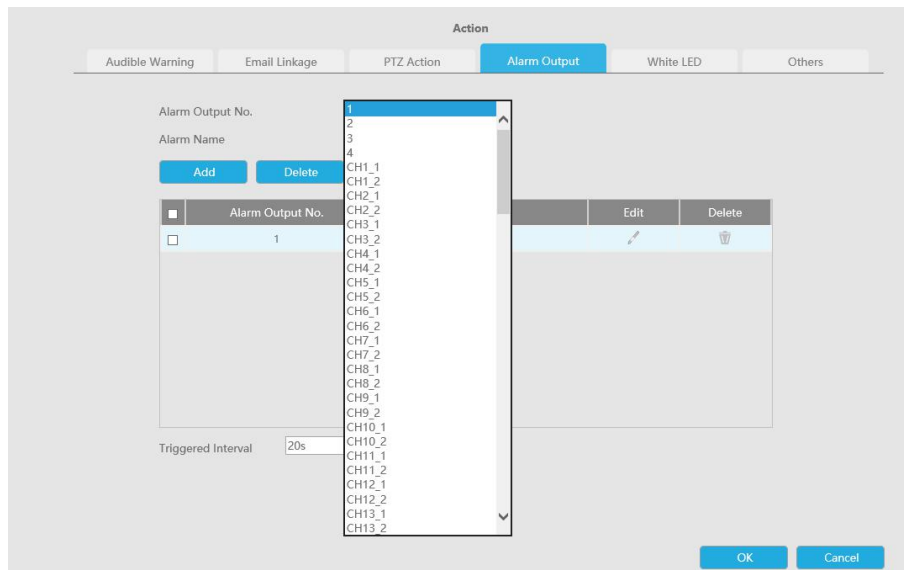
Channel: Select the channel which supports this function.

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.



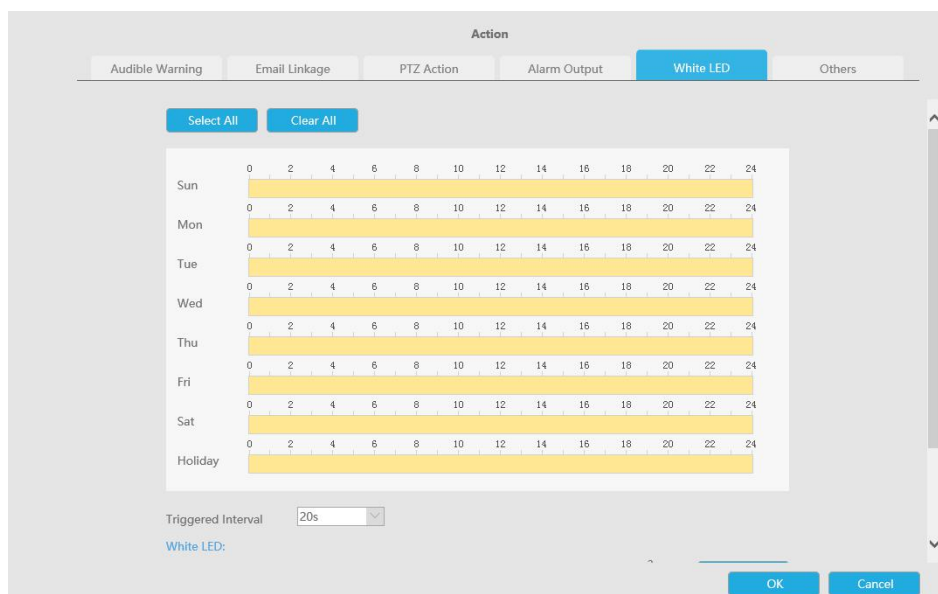
White LED: Trigger White LED flashing when alarm is triggered.

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.



And you can add White LED by clicking **Add**.

White LED:

Channel: 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.

Action

Trigger Channels Record

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

Trigger Channels 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 page's configuration will not be copied into other channels.

Note:

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

Face Detection settings consist of Face Capture and Advanced. Here are some notes for using Face Detection function.

Note:

- 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 face information. Please set TCP which is the default mode as Post Type. It can be set in Camera web page -> Event -> Face Detection -> Face Capture interface.

Face Detection Message Post Settings

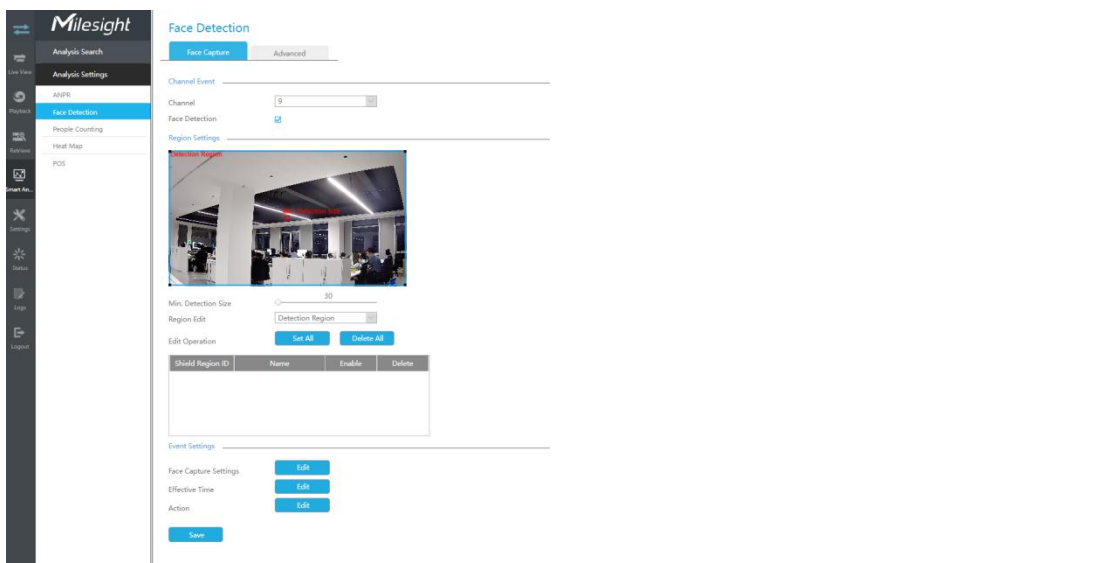
Enable Face Detection Message Post:

Post Type:

③ Make sure your camera is AI Series and version is V4x.7.0.79-r25 or above.

④ Make sure your NVR model is MS-Nxxxx-xxT/H.

Face Capture



Step 1: Select a channel and enable Face Detection function;

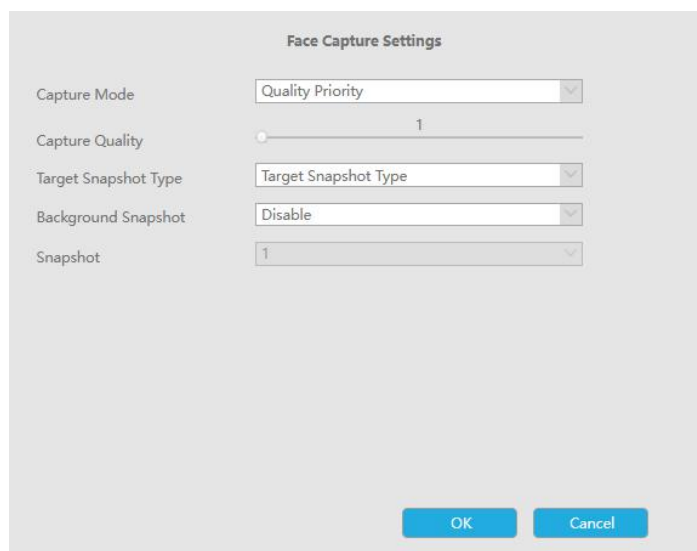
Step 2: Set Min. Detection Size;

Step 3: Set detection region or Shield Region, you can draw the polygon region on the screen

directly, or you can also click **Set All** or **Delete All** to select or delete the entire region.

Only the faces in the detection region will be detected, and the faces in the shield region will not be detected.

Step 4: Make configuration for face capture snapshot.



Capture Mode: Quality Priority, Timeliness Priority, Customize are available.

- Quality Priority: In this mode, it will push a face screenshot of best quality when the face is detected.
- Timeliness Priority: In this mode, it will push a face screenshot in the shortest time when the face is detected.

- **Customize:** In this mode, you can customize some detect conditions, including Snapshot Interval, Oblique Face Angle Limit, Pitching Face Angle Limit, Side Face Angle Limit, Blur Limit.

Note: It is recommended to choose Quality Priority Mode.

Target Snapshot Type: Face Only, Upper Body, Whole Body are available.

- **Face Only:** Capture the screenshot of face only.
- **Upper Body:** Capture the screenshot of upper body.
- **Whole Body:** Capture the screenshot of whole body.

If you check the "Background" option, it will take another screenshot of the entire image.

Note: Whether or not the "Background" option is checked, the camera will push the entire image to the NVR side.

Snapshot Interval: 80 milliseconds, 200 milliseconds, 500 milliseconds, 1 second, 2 seconds and 4 seconds are available. This option is optional for Customize mode.

Oblique Face Angle Limit: Set Oblique Face Angle Limit to 1~180. The larger the value, the larger angle the oblique face that can be detected. This option is optional for Customize mode.

Pitching Face Angle Limit: Set Pitching Face Angle Limit to 1~180. The larger the value, the larger angle the pitching face that can be detected. This option is optional for Customize mode.

Side Face Angle Limit: Set Side Face Angle Limit to 1~180. The larger the value, the larger angle the side face that can be detected. This option is optional for Customize mode.

Blur Limit: Set Blur Limit to 1~10. The larger the value, the more blurred the face can be detected. This option is optional for Customize mode.

Snapshot: Set the number of screenshot to 1~5. It will take screenshot based on the snapshot interval you set.

Step 5: Set Face Detection function effective time;

Step 6: Set action including Audible Warning, Email Linkage, Event Popup, PTZ Action, Alarm Output, White LED and Trigger Channels Record.

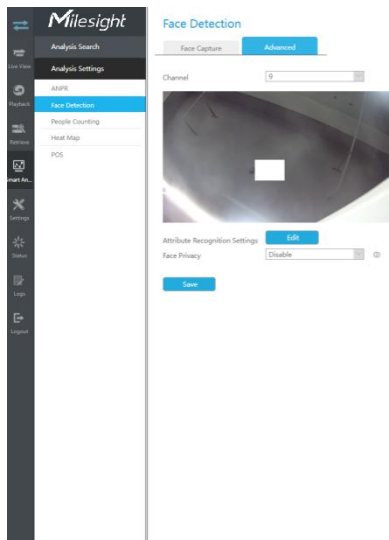
For detailed settings of these actions, please refer to **4.7.2.1 ANPR**.

Note: The following functions cannot be enabled at the same time as Face Detection.

- VCA
- People Counting&Regional People Counting
- Corridor Mode
- Auto Tracking

Advanced

Here you can enable Attribute Recognition and configure the attributes you want to detect. Or enable the Face Privacy Mode for Face Detection.



Attribute Recognition Settings: The attributes include Age, Gender, Glasses, Mask and Cap. Users can choose the attributes as needed.

Face Privacy: When Face Privacy Mode is enabled, the detected faces in the face detection area will be mosaic automatically.

Note:

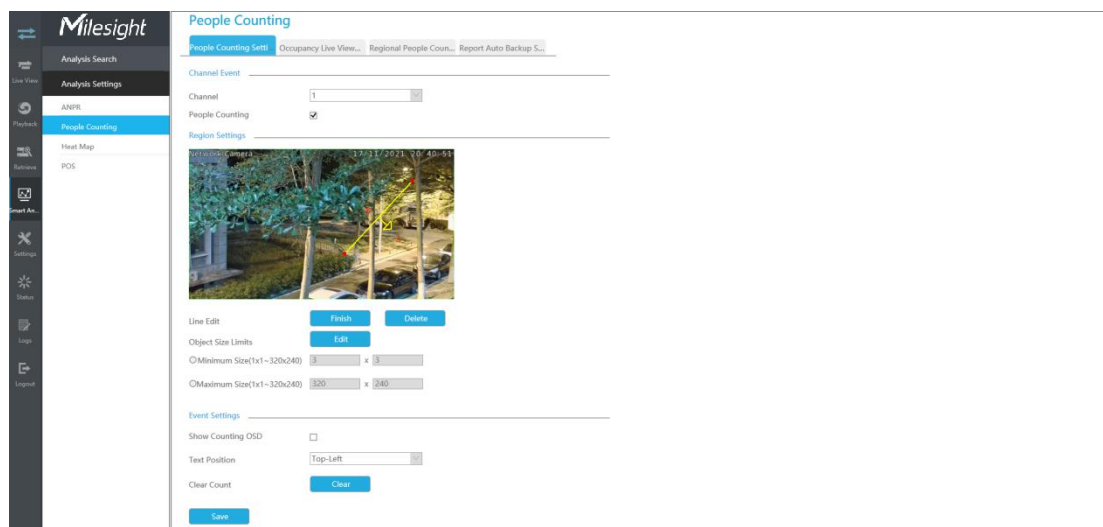
- ① Attribute Recognition function cannot be used together with Face Privacy function
- ② To enable Face Privacy Mode, the video parameters will be changed to the recommended configuration as shown below:

- H.265 video codec (all streams)
- Primary Stream: 1080P@25fps
- Secondary Stream: 704*576@25fps
- Tertiary Stream: Disabled

4.7.2.3 People Counting

People Counting Settings

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

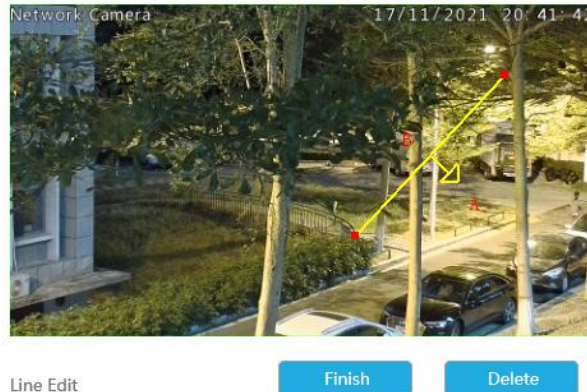


Step 1. Select channel.

Step 2. Enable People Counting.

People Counting

Step 3. Draw detection line.



Step 4. Set Minimum Size and Maximum Size.

Object Size Limits

Minimum Size(1x1~320x240) x

Maximum Size(1x1~320x240) x

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.

Besides, you can clear count by clicking .

Show Counting OSD

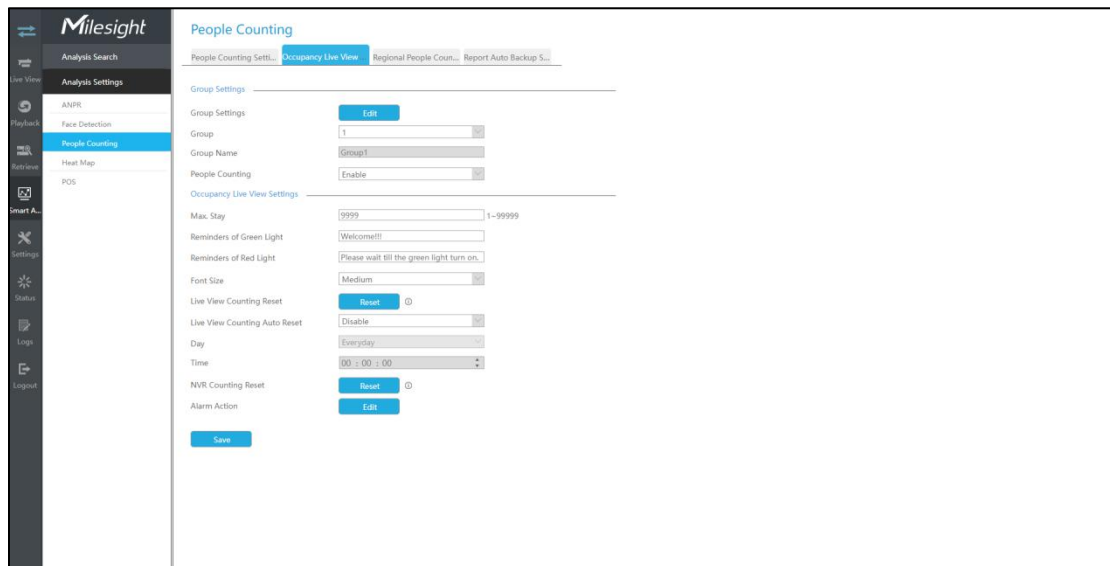
Text Position

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.

**Note:**


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

Step 1. Set Group.

Group Settings: Click  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.

Step 2. Select a Group from the added Groups.

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.
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
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 warning.

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.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

Action

Audible Warning
Email Linkage
PTZ Action
Alarm Output
White LED

Select All
Clear All

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


Audio File:

Triggered Interval:

OK Cancel

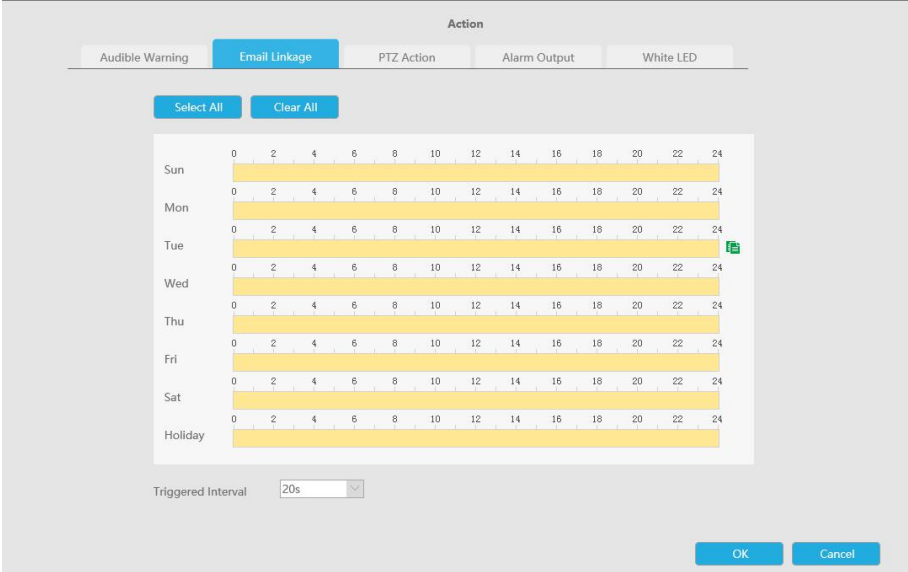
Email Linkage: NVR will send an email to the address you set before.

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.

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



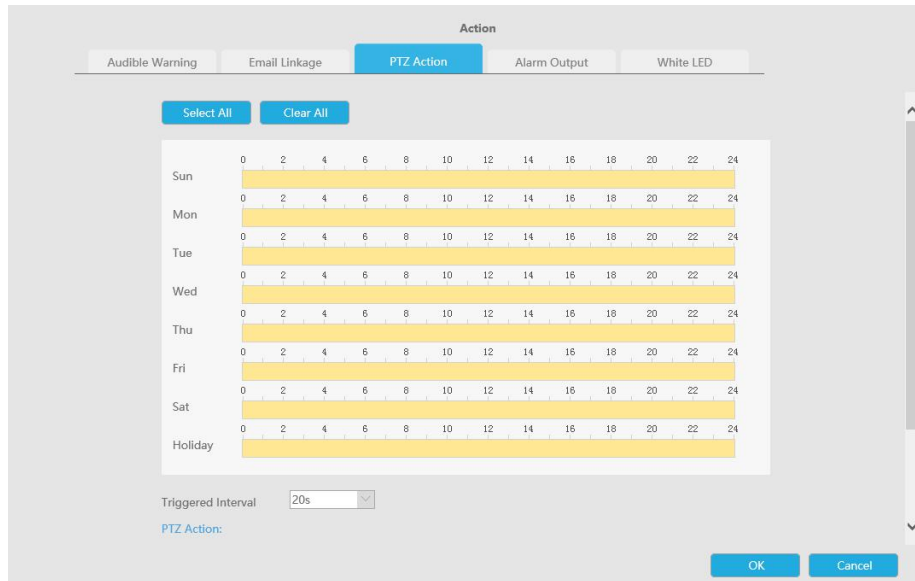
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol**.

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 you can add PTZ Action by clicking

Add



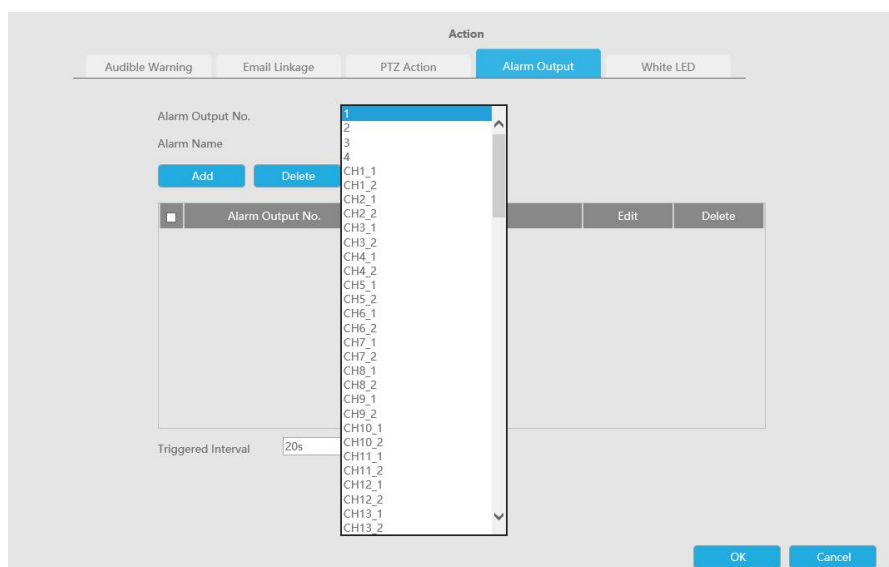
Channel: Select the channel which supports this function.

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.

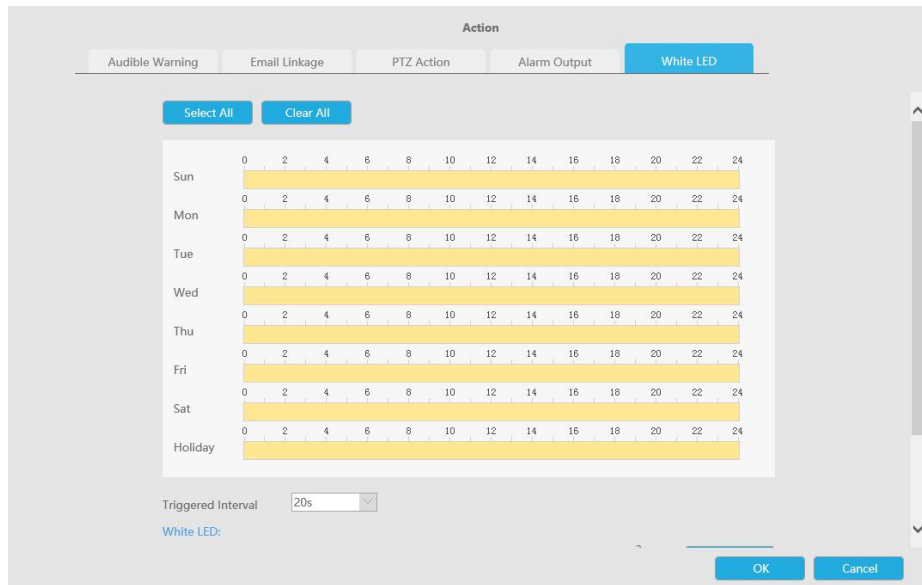
The user can set effective schedule as following two ways:

- 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.



The screenshot shows the 'Action' configuration page for 'White LED'. At the top, there are tabs for 'Audible Warning', 'Email Linkage', 'PTZ Action', 'Alarm Output', and 'White LED'. Below the tabs are 'Select All' and 'Clear All' buttons. The main area is a grid with days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) and a 'Holiday' row. Each day has a horizontal bar representing a 24-hour cycle with markers at 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, and 24. The bars are currently yellow, indicating they are selected. Below the grid, there is a 'Triggered Interval' dropdown menu set to '20s' and a 'White LED:' label. At the bottom right, there are 'OK' and 'Cancel' buttons.

And you can add White LED by clicking **Add**.



The screenshot shows the 'White LED' configuration interface. It includes a 'Channel' dropdown menu with 'Select Channel' as the current selection. The 'Flash Mode' dropdown menu is set to 'Twinkle'. The 'Flash Time' is represented by a slider with a value of 3. There are 'Add', 'Delete', and 'Reset' buttons at the bottom.

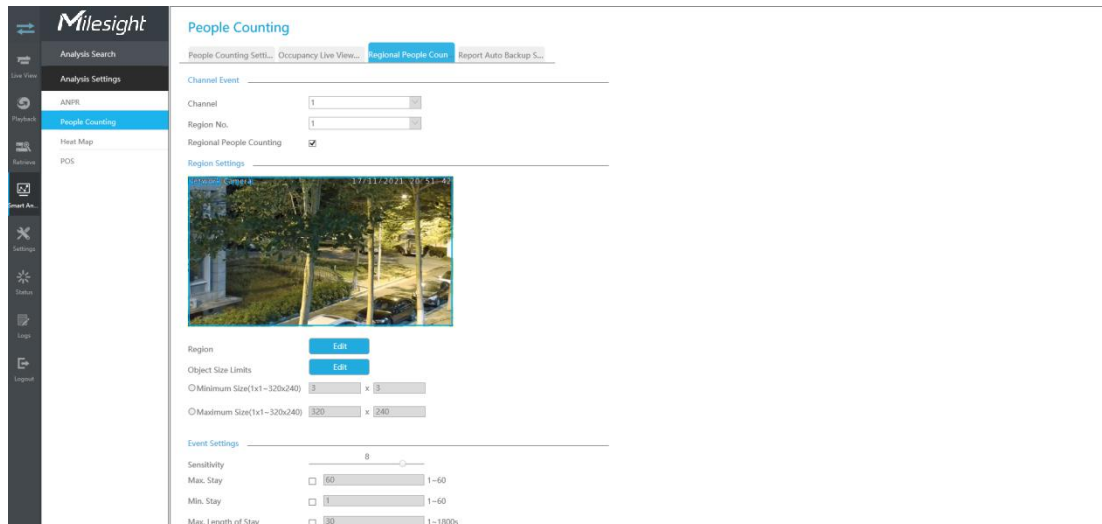
Channel: Select the channel which supports this function.

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.

Regional People Counting Settings

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



Step 1. Select channel and the region number to configure, then enable Regional People Counting.

Channel

Region No.

Regional People Counting

Note:

Ensure that your camera model is MS-CXXXX-XXC and camera version is 4X.7.0.78 or above.

Step 2. Set detection region.



Step 3. Set Minimum Size and Maximum Size.

Object Size Limits

Minimum Size(1x1~320x240) x

Maximum Size(1x1~320x240) x

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

Step 4. Set 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.




Step 5. Set alarm trigger. Alarm will be triggered when the threshold exceeds the certain value.

Max. Stay	<input type="checkbox"/>	60	1~60
Min. Stay	<input type="checkbox"/>	1	1~60
Max. Length of Stay	<input type="checkbox"/>	30	1~1800s

Step 6. Set alarm action including Audible Warning, Email Linkage, PTZ Action, Alarm Output, White LED and Trigger Channels Record.

Audible Warning: NVR will trigger an audible warning when event 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.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

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

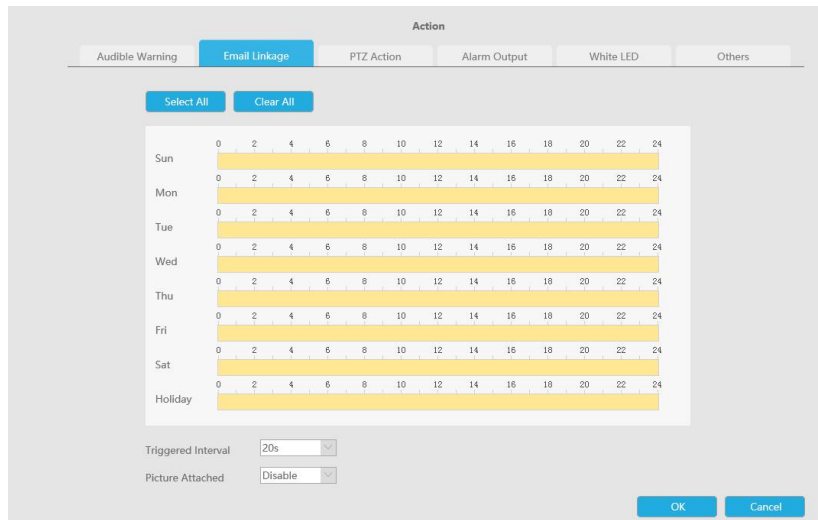
The user can set effective schedule as following two ways:

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.

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.

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.



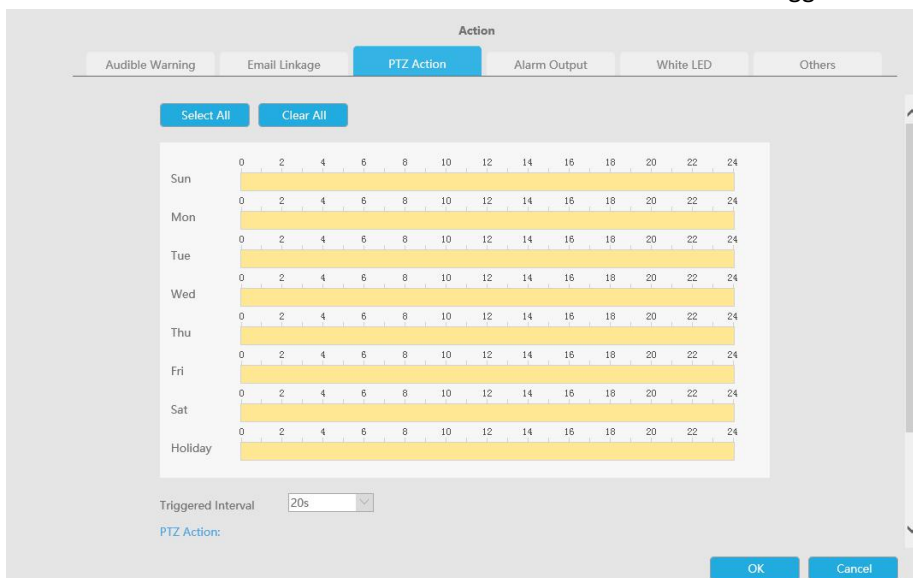
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol**.

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.



And you can add PTZ Action by clicking **Add**.

PTZ Action:

Channel 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.

Action

Audible Warning Email Linkage PTZ Action **Alarm Output** White LED Others

Alarm Output No.

Alarm Name


Alarm Output No.	Alarm Name	Edit	Delete
<input type="checkbox"/>	1	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Triggered Interval

1
2
3
4
CH1_1
CH1_2
CH2_1
CH2_2
CH3_1
CH3_2
CH4_1
CH4_2
CH5_1
CH5_2
CH6_1
CH6_2
CH7_1
CH7_2
CH8_1
CH8_2
CH9_1
CH9_2
CH10_1
CH10_2
CH11_1
CH11_2
CH12_1
CH12_2
CH13_1
CH13_2

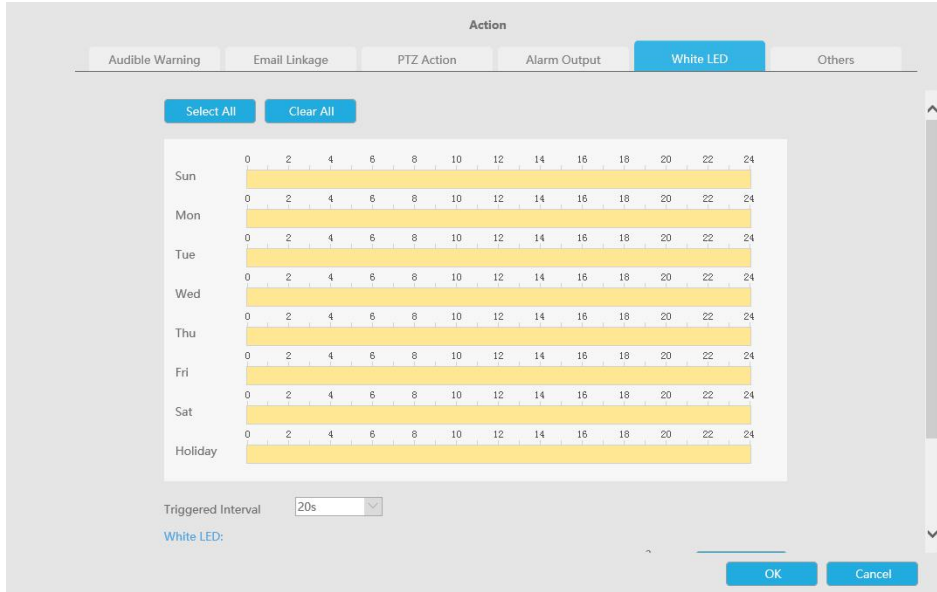
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type: 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 or to set or clear all time settings.

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



And you can add White LED by clicking Add.

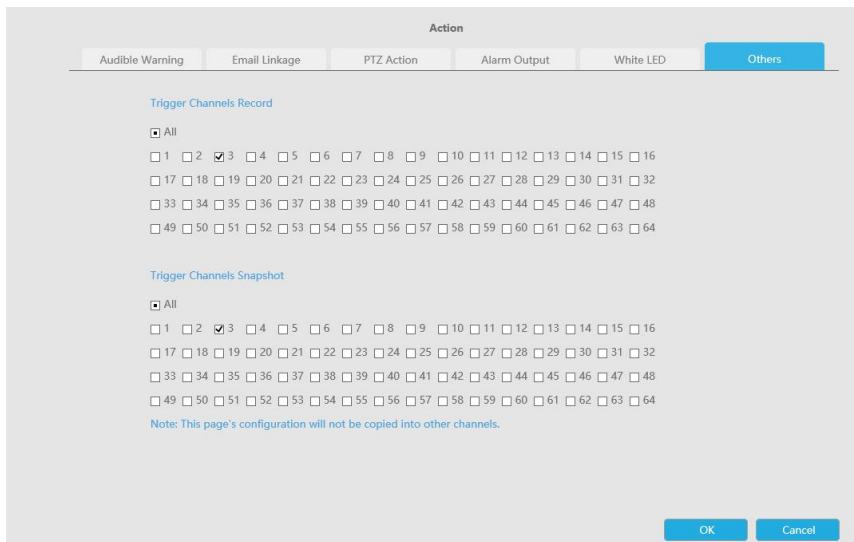


Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

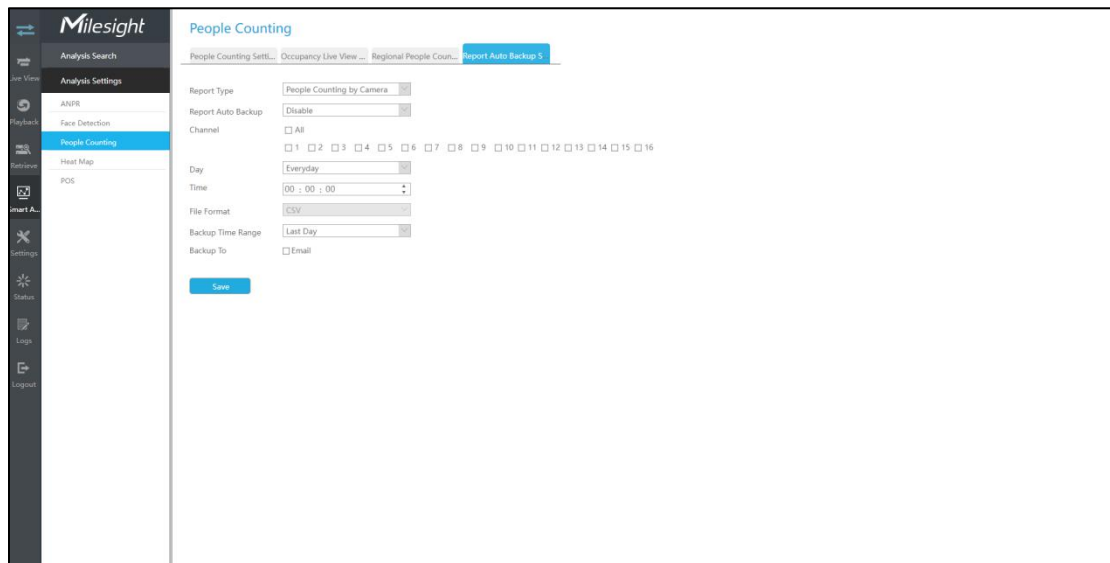
Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

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



Report Auto Backup Settings

Here users can configure Auto Backup of People Counting reports. Then you can periodically export .CSV reports of the last day, last week, or all to the external device or Email.



Step 1: Select Report Type including People Counting by Camera, People Counting by Group and Regional People Counting.

Step 2: Enable Report Auto Backup, and then select the channels/Group.

Step 3: Set the day and the time.

Day

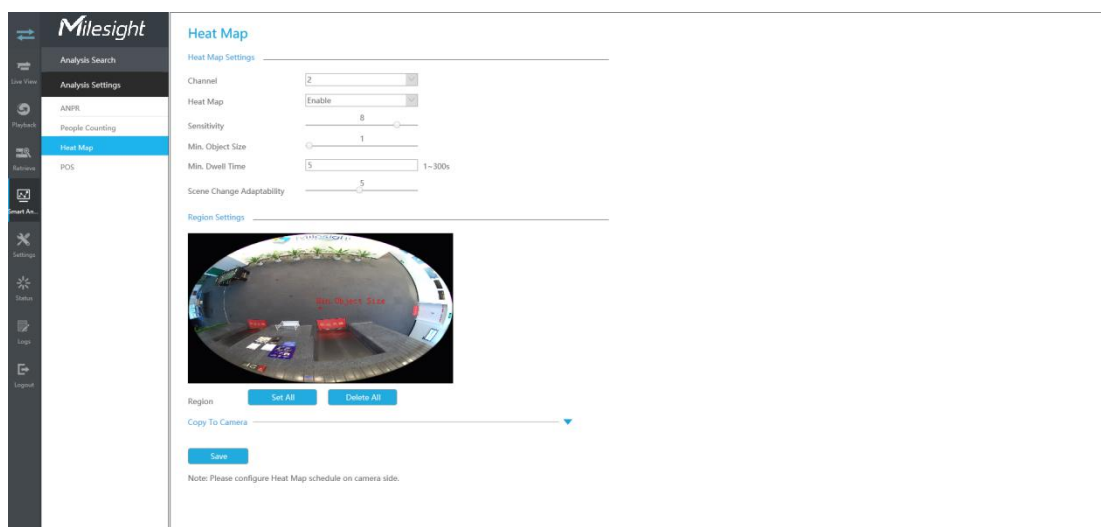
Time

Step 4: Select Backup Time Range including Last Day and Export All.

Step 5: Users can export the reports to Email.

4.7.2.4 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.



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.

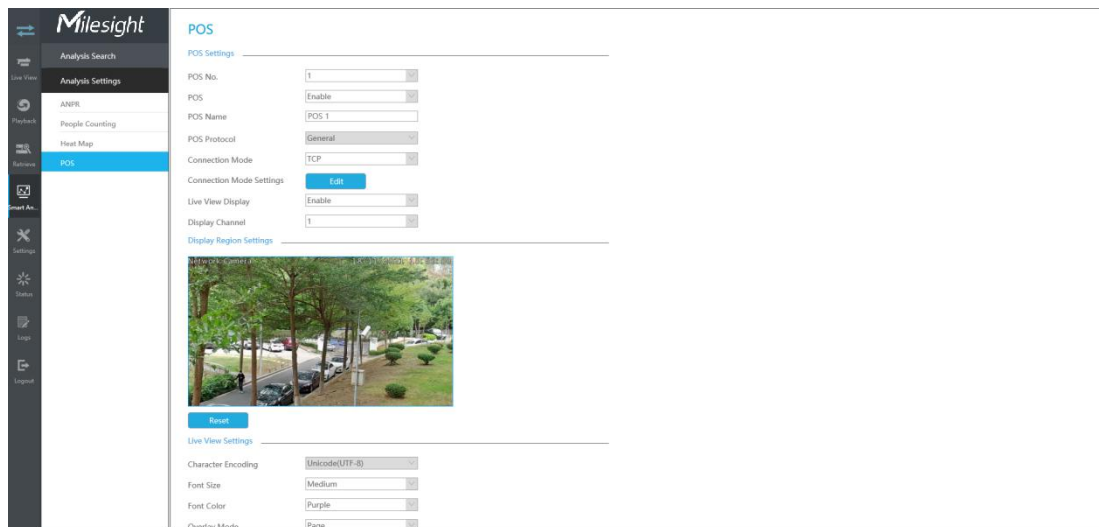
6. The Heat Map function only works on the following cameras:

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.

4.7.2.4 POS

You can configure some basic POS information here. When the communication between the POS machine and NVR is available and POS function is enabled on NVR side, NVR can obtain the information transmitted by the POS machine and display the POS information on the configured channel Live View.



Step 1: Select the POS number and enable POS function;

POS Name: You can customize the POS name as needed

POS Protocol: Display the POS communication protocol. The default is General

Connection Mode: Select the connection mode with the POS machine, TCP or UDP is optional

Connection Mode Settings: Set the IP address and POS Port of the POS machine

Step 2: You can enable the Live View Display. When enabled, POS information will be displayed in the Live View and the preview box of each configuration page;

Display Channel: Select the channel on which POS information will be displayed

Note: The information of different POS machines cannot be displayed in the same channel to prevent information overlap.

Display Region: Draw the area in the channel where POS information is displayed

Character Encoding: The encoding format of the information transmitted by the POS machine. The default is Unicode (UTF-8)

Font Size: Set the font size of POS information

Font Color: Set the font color of POS information

Overlay Mode: Set the overlay mode when the channel display area is full in the Live View. Page or Roll is optional

Display Time: Set the display time of single POS information in the Live View

Timeout: Set the expiration time of POS information, and multiple messages sent within the set time will be merged into the same message again


Privacy Settings: Some information can be set to * as needed to protect privacy

Step 3: Set POS function effective time;

Step 4: Alarm is triggered when NVR obtains the information transmitted by the POS machine. You can set alarm action including Audible Warning, Email Linkage, PTZ Action, Alarm Output, White LED and Others.

Audible Warning: NVR will trigger an audible warning when event is detected.

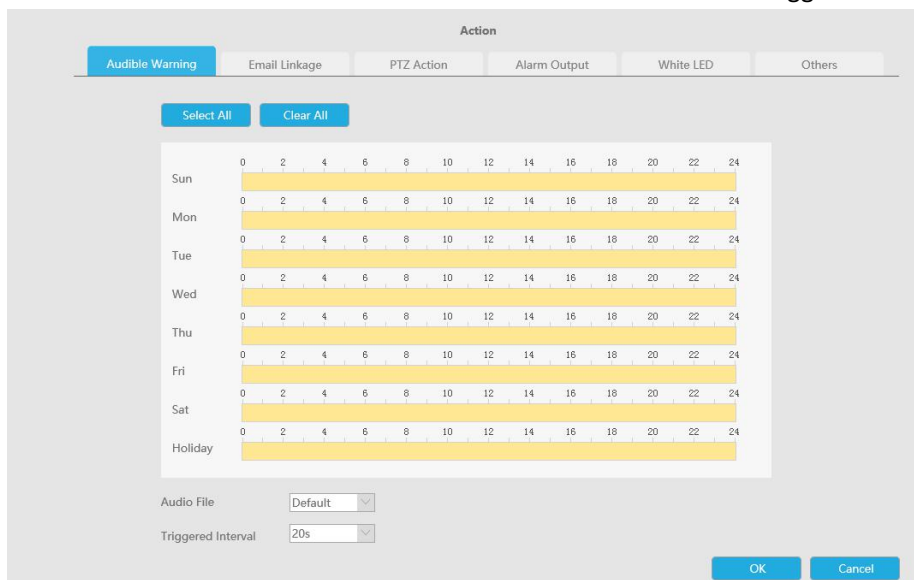
The user can set effective schedule as following two ways:

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.


Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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



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

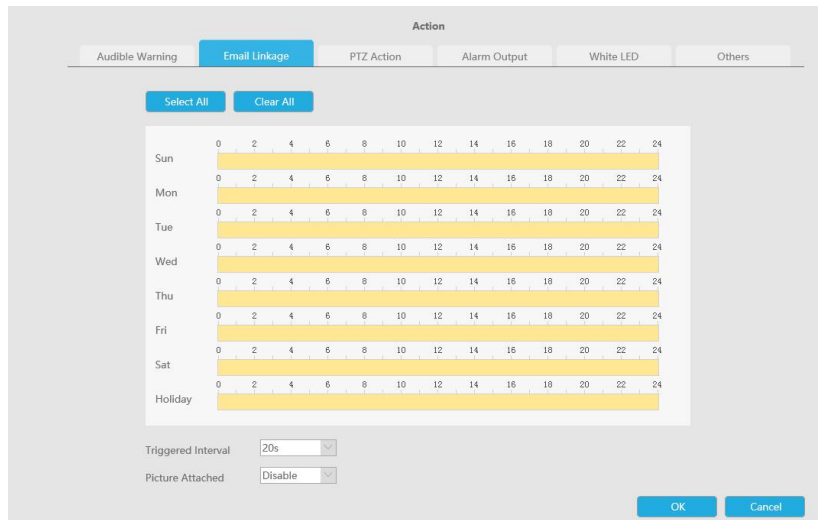
The user can set effective schedule as following two ways:

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.

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.

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.



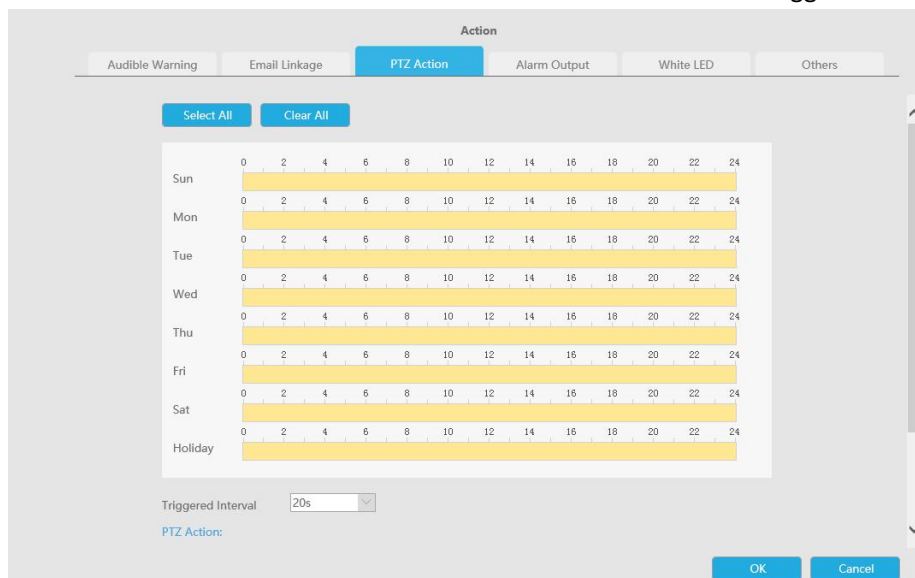
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol**.

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.



And you can add PTZ Action by clicking **Add**.

PTZ Action:

Channel 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.

Action

Audible Warning Email Linkage PTZ Action **Alarm Output** White LED Others

Alarm Output No.

Alarm Name


Alarm Output No.	Alarm Name	Edit	Delete
<input type="checkbox"/>	1	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Triggered Interval

1
2
3
4
CH1_1
CH1_2
CH2_1
CH2_2
CH3_1
CH3_2
CH4_1
CH4_2
CH5_1
CH5_2
CH6_1
CH6_2
CH7_1
CH7_2
CH8_1
CH8_2
CH9_1
CH9_2
CH10_1
CH10_2
CH11_1
CH11_2
CH12_1
CH12_2
CH13_1
CH13_2

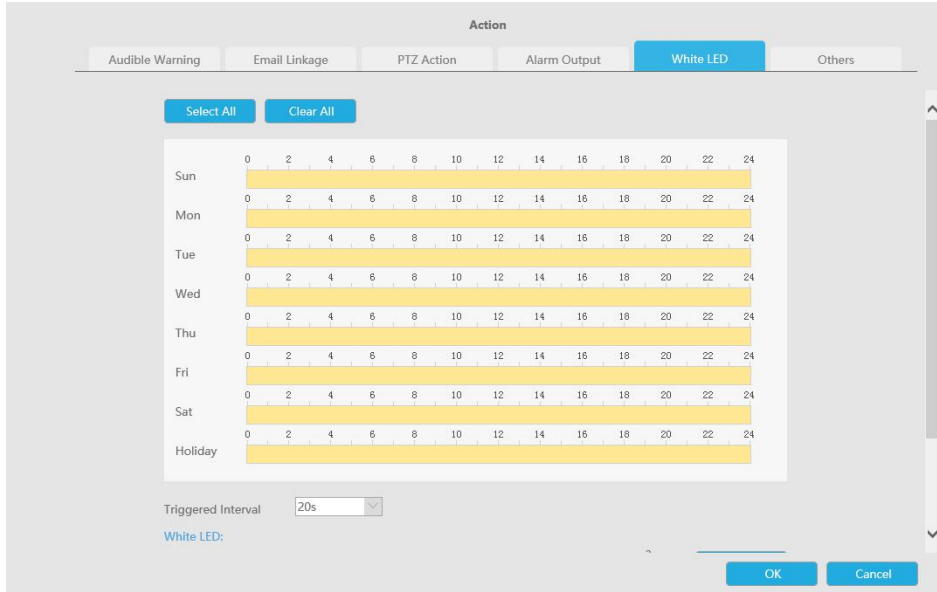
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type: 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 or to set or clear all time settings.

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



And you can add White LED by clicking Add.

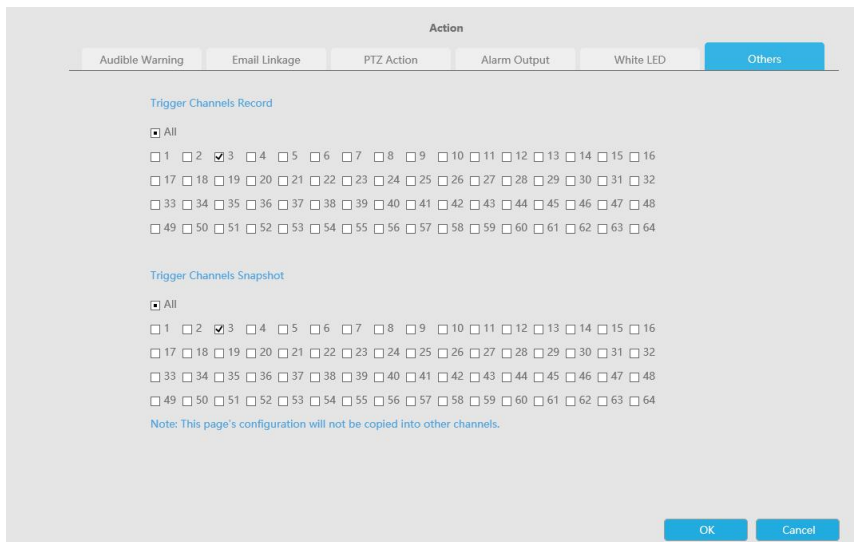


Channel: Select the channel which supports this function.

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.



Note:

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

4.8 Settings

4.8.1 Local Configuration

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

Local Configuration

Record File Path	<input type="text" value="C:\Users\Alison\WebView\RecordFile"/>	<input type="button" value="Browse"/>
Preview Picture Path	<input type="text" value="C:\Users\Alison\WebView\LiveCaptureFile"/>	<input type="button" value="Browse"/>
Playback Picture Path	<input type="text" value="C:\Users\Alison\WebView\PBCaptureFile"/>	<input type="button" value="Browse"/>
Language	<input type="text" value="English"/>	
Connection Type	<input type="text" value="HTTP"/>	
Play Mode	<input type="text" value="Least Delay"/>	
Auto Logout	<input type="text" value="30 minutes"/>	
Primary Stream When Fullscreen	<input type="checkbox"/>	

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

The screenshot displays the 'Camera Management' interface. On the left is a sidebar with navigation options. The main area is divided into two sections: a configuration form and a table of camera channels.

Configuration Form:

- Channel: 1
- Channel Name: CAM1
- Protocol: ONVIF
- IP Address: (empty)
- Port: 80
- Transport Protocol: Auto
- User Name: admin
- Password: (empty)
- Time Setting: Sync Time With NVR

Camera Channels Table:

Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model	SN
2	CAM2				192.168.69.66	-	80	MSSP	1CC3162AB1E6	45.0.0.1-web-v5	MS-C2975-RFPC	-
4	CAM4				192.168.69.107	-	80	MSSP	1CC316222220	43.7.0.78-v1	MS-C2962-RFFB	-

Free Receiving Bandwidth: 151.00Mbps

Step1. Add Camera.

Method1. Add IP Channel in Device Search interface. 'Settings' → 'Camera' → 'Device Search'.

1. 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, ONVIF, MSSP | NIC: ALL | IP Range: 192.168.14.102 - 255.255.255.255 | Search | Add

	ess	Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model
--	-----	------	--------	------	----------	-----	-----	------------------	-------

2. Click **Search** to search cameras at the same network segment with NVR.

The screenshot shows the Milesight web interface with the 'Device Search' section active. The search criteria are set to Protocol: ALL, NIC: ALL, and IP Range: 0.0.0.0 - 255.255.255.255. A table of 15 discovered cameras is displayed, each with a checkbox, ID, IP address, status, port, protocol, NIC, MAC, firmware version, model, vendor, and SN.


No.	IP Address	Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor	SN
27	192.168.69.212	✓	Active	80	MSSP	LAN	1CC31629C1E5	43.7.0.79	MS-C2973-RPB	Milesight	-
28	192.168.69.213	✓	Active	80	MSSP	LAN	1CC3162A0839	45.7.0.79+12	MS-C2964-TFIPC	Milesight	-
29	192.168.69.215	✓	Active	80	MSSP	LAN	1CC31629717C	41.7.0.79+7	MS-C5383-PB	Milesight	-
30	192.168.69.216	✓	Active	80	MSSP	LAN	1CC316298CFA	43.7.0.79	MS-C8176-PB	Milesight	-
31	192.168.69.222	✓	-	80	ONVIF	LAN	4CDB88DE68FD				-
32	192.168.69.223	✓	-	80	ONVIF	LAN	64DB88DE68FD				-
33	192.168.69.224	✓	-	80	ONVIF	LAN	5859ED53F6F5				-
34	192.168.69.227	✓	-	80	ONVIF	LAN	28578E5315A0				-
35	192.168.69.228	✓	-	80	ONVIF	LAN	48E4E31EE8A4				-
36	192.168.69.231	✓	-	80	ONVIF	LAN	48E4E31E51CF				-
37	192.168.69.248	✓	Active	80	MSSP	LAN	1CC316112A69	31.7.0.79	MS-C2962-TF9PA	Milesight	-
38	192.168.69.249	✓	Active	80	MSSP	LAN	1CC316287C95	45.7.0.79+30-3deye	MS-C5383-PC	Milesight	-
39	192.168.69.250	✓	Active	80	MSSP	LAN	1CC316112D68	33.7.0.79+41	MS-C5376-PA	Milesight	-
40	192.168.69.251	✓	Active	80	MSSP	LAN	1CC316287C8E	45.7.0.79+30	MS-C8183-PC	Milesight	-
41	192.168.69.252	✓	Active	80	MSSP	LAN	1CC31611318C	33.7.0.79+7	MS-C8176-PA	Milesight	-
42	192.168.69.253	✓	Active	80	MSSP	LAN	1CC3162685D9	41.7.0.79	MS-C5373-PB	Milesight	-

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

The 'Add Camera' dialog box contains the following fields and options:

- MAC: 1CC316230139
- IP Address: 192.168.7.140
- Channel: 6 (dropdown)
- Channel Name: CAM6
- User Name: admin
- Password: (empty field)
- Transport Protocol: Auto (dropdown)
- Time Setting: Sync Time With NVR
- Port: 80
- Protocol: MSSP (dropdown)

Buttons: OK, Cancel

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 **OK** to finish batch adding.

Method2. Add camera through camera management interface. 'Settings' → 'Camera' → 'Camera Management'.

Select channel id, input complete information, then click  button.

There are three protocols available for camera connection:

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

- **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

Camera Management		Batch Management	
Channel	5	Channel Name	CAM5
User Name	admin	Password	*****
Transport Protocol	UDP	Time Setting	<input type="checkbox"/> Sync Time With NVR
Protocol	RTSP	Primary	rtsp://192.168.7.222:554/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	Channel Name	CAM5
IP Address	192.168.7.222	Port	80
User Name	admin	Password	*****
Transport Protocol	UDP	Time Setting	<input type="checkbox"/> Sync Time With NVR
Protocol	MSSP		

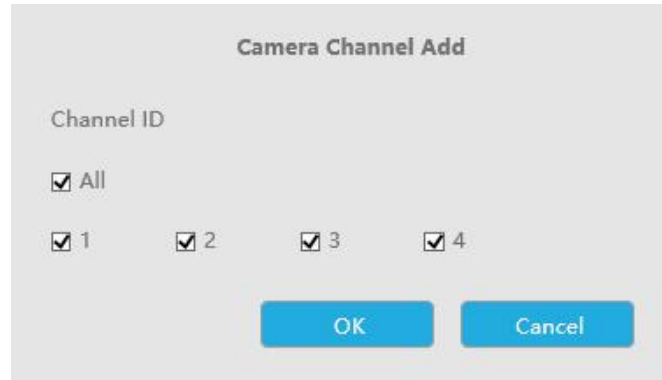
- **Milesight DDNS:** You can add Milesight cameras via Milesight DDNS. After enabling DDNS on Milesight camera and selecting “ddns.milesight.com” as provider, you can add the camera via Domain Address “ddns.milesight.com/MAC address”.

Camera Management		Batch Management	
Channel	12	Channel Name	CAM12
Protocol	Milesight DDNS	Domain Address	ddns.milesight.com/24F03C
Transport Protocol	Auto	User Name	admin
Password	*****	Time Setting	<input type="checkbox"/> Sync Time With NVR

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.





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.

Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model	
<input type="checkbox"/>	1	CAM1				192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
<input type="checkbox"/>	2	CAM2				192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
<input type="checkbox"/>	3	CAM3				192.168.14.104	-	8084	ONVIF	1CC316238013	40.7.0.78	MS-C2942-B
<input type="checkbox"/>	4	CAM4				192.168.14.105	1	8085	ONVIF	1CC31622008D	43.7.0.78	MS-C9674-PB
<input type="checkbox"/>	5	CAM5				192.168.7.234	-	80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFPC

Step2. Check the connection status.

After adding the IP channels, click  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.

Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model	
<input type="checkbox"/>	1	CAM1				192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
<input type="checkbox"/>	2	CAM2				192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
<input type="checkbox"/>	3	CAM3				192.168.14.104	-	8084	ONVIF	1CC316238013	40.7.0.78	MS-C2942-B
<input type="checkbox"/>	4	CAM4				192.168.14.105	1	8085	ONVIF	1CC31622008D	43.7.0.78	MS-C9674-PB
<input type="checkbox"/>	5	CAM5				192.168.7.234	-	80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFPC

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:

Transport Protocol:


Protocol:

Channel Name:

Port:

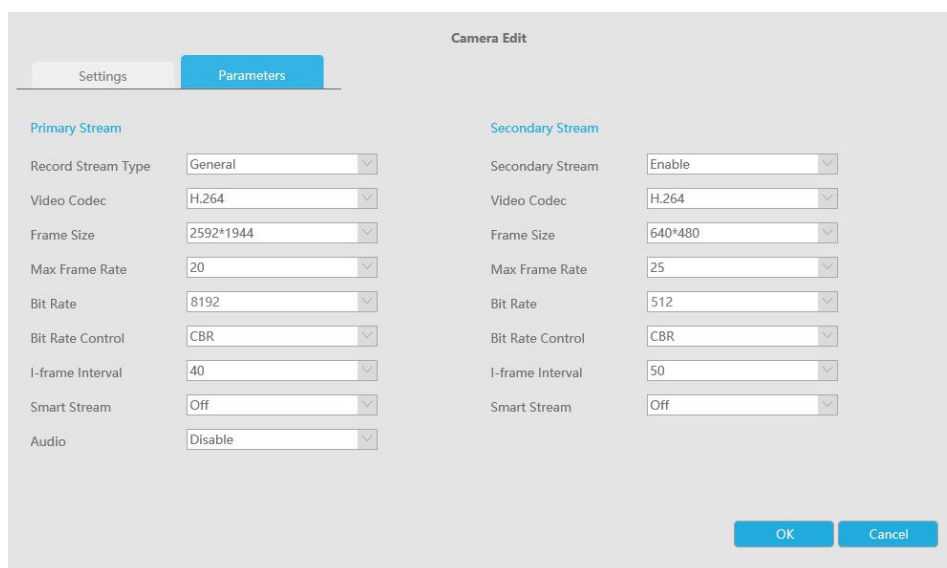
Password:


Time 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  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.



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

 **Delete**

to delete.

	Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
<input type="checkbox"/>	1	CAM1				192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
<input type="checkbox"/>	2	CAM2				192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
<input type="checkbox"/>	3	CAM3				192.168.14.104	-	8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2942-B
<input type="checkbox"/>	4	CAM4				192.168.14.105	1	8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
<input type="checkbox"/>	5	CAM5				192.168.7.234	-	80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-RFPC

Batch configuring camera

Click , select multiple channels and set cameras parameters.

Note:

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

Step5. Configure PoE Channel(Only for PoE NVR)

1. Connect Milesight camera to PoE port, it will detect the camera automatically.
2. If the camera's password is the same with NVR admin password, it will be successfully authenticated and be changed into the same network segment with internal NIC IPv4 address, then the camera will be connected successfully.
3. If the camera's password is different with NVR admin password, the PoE channel will show

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

Edit Authentication

User Name

Password

Note: Edit authentication for selected cameras.


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  to search out cameras;

③ Select cameras and click  to add them.

4. You can **access to cameras website** directly by clicking , which can save much steps to configure cameras with complete settings which were unavailable.

Camera Management

Camera Management Batch Management

Channel: Channel Name:
 IP Address: Port:
 User Name: Password:
 Transport Protocol: Time Setting: Sync Time With NVR
 Protocol:

Add Refresh Delete Edit Authentication

Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Access	Port	Protocol	MAC	Firmware Version	Model
1	CAM1				192.168.14.102	-		8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
2	CAM2				192.168.14.103	-		8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
3	CAM3				192.168.14.104	-		8084	ONVIF	1CC316238D13	40.7.0.78	MS-C2942-B
4	CAM4				192.168.14.105	1		8085	ONVIF	1CC316220D8D	43.7.0.78	MS-C9674-PB
5	CAM5				192.168.7.234	-		80	ONVIF	1CC316287C75	45.7.0.78	MS-C2864-REPC

Free Receiving Bandwidth 129.31Mbps

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

Device Search

Protocol: NIC: IP Range: Search

No.	IP Address	Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor	SN
27	192.168.69.212		Active	80	MSSP	LAN	1CC31629C1E5	43.7.0.79	MS-C2973-RPB	Milesight	-
28	192.168.69.213		Active	80	MSSP	LAN	1CC3162A0B39	45.7.0.79+12	MS-C2964-TFPC	Milesight	-
29	192.168.69.215		Active	80	MSSP	LAN	1CC31629717C	41.7.0.79+7	MS-C5383-PB	Milesight	-
30	192.168.69.216		Active	80	MSSP	LAN	1CC316298C9A	43.7.0.79	MS-C8176-PB	Milesight	-
31	192.168.69.222		-	80	ONVIF	LAN	4CBDF0568FD	-	-	-	-
32	192.168.69.223		-	80	ONVIF	LAN	64DB884ECF08	-	-	-	-
33	192.168.69.224		-	80	ONVIF	LAN	589E9D539F5	-	-	-	-
34	192.168.69.227		-	80	ONVIF	LAN	2857BE5315A0	-	-	-	-
35	192.168.69.228		-	80	ONVIF	LAN	48EA631EEBA4	-	-	-	-
36	192.168.69.231		-	80	ONVIF	LAN	48EA83C01CF	-	-	-	-
37	192.168.69.248		Active	80	MSSP	LAN	1CC316112A69	31.7.0.79	MS-C2962-TFPA	Milesight	-
38	192.168.69.249		Active	80	MSSP	LAN	1CC316287C95	45.7.0.79+30-3daye	MS-C5363-PC	Milesight	-
39	192.168.69.250		Active	80	MSSP	LAN	1CC316112D68	33.7.0.79+41	MS-C5376-PA	Milesight	-
40	192.168.69.251		Active	80	MSSP	LAN	1CC316287C8E	45.7.0.79+30	MS-C8163-PC	Milesight	-
41	192.168.69.252		Active	80	MSSP	LAN	1CC31611318C	33.7.0.79+7	MS-C8176-PB	Milesight	-
42	192.168.69.253		Active	80	MSSP	LAN	1CC316268509	41.7.0.79	MS-C5373-PB	Milesight	-

Add Activate IP Edit

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

Protocol NIC IP Range -

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

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

IP Edit

MAC	<input type="text" value="1CC31621EC5A"/>
IP Address	<input type="text" value="192.168.7.222"/>
Subnet Mask	<input type="text" value="255.255.240.0"/>
Gateway	<input type="text" value="192.168.7.1"/>
DNS	<input type="text" value="8.8.8.8"/>
Port	<input type="text" value="80"/>
User Name	<input type="text" value="admin"/>
Password	<input type="text"/>

4.8.2.3 PTZ Configuration

Basic

Users can configure the functions and parameters about Pan/Tilt/Zoom.

The screenshot shows the PTZ Configuration page in the Milesight web interface. The left sidebar contains navigation options like Local Configuration, Camera, PTZ Configuration, Image, Audio, Advanced, Camera Maintenance, Storage, Event, and System. The main content area is titled 'PTZ Configuration' and has tabs for Basic, PTZ Privacy Mask, Auto Tracking, and Advanced. The 'Basic' tab is active, showing the following settings:

- Channel: 1
- Channel PTZ OSD: 1
- Zoom Status: 5 seconds
- Pan&Tilt Status: 5 seconds
- Preset Status: 5 seconds
- Patrol Status: Always Open
- Pattern Status: Always Open
- Auto Scan Status: Always Open
- Preset Freezing:
- Speed: 5
- Preset Speed: 5
- Patrol Recovering:
- Patrol Recovery Time: 10 (5-720s)
- Focus: Semi-Auto
- Minimum Focus Distance: 1 meter
- Power Off Memory:
- Set Resume Time: Disable
- Dehumidifying:
- Fan Working Mode: General
- Copy to Camera:

Step 1. Select channel.

Step 2. Configure the PTZ OSD parameter. You can set the Zoom status, Pan&Tilt Status, Preset Status with Always Close/Always Open/2s/5s/10s, and Patrol Status, Pattern Status, Auto Scan Status with Always Open/ Always Close

Step 3. If you enabled Preset Freezing, the live view of preset position will be showed directly instead of showing both the moving path to the position and the live view. It can also reduce the use of bandwidth in the digital network system.

Step 4. Set Speed.

Preset Speed: It determines the speed of calling presets. Level 1~10 are available

Manual Speed: It is only for Speed Dome, and it determines the PTZ speed of Manually control. Low/ Medium/ High are available

Step 5. Set Patrol.

Patrol Recovering: Enable Patrol Recovering

Patrol Recovering Time: Set time for Patrol Recovering, which is between 5 to 720 seconds

Step 6. Set Focus.

Focus Mode: Three focus modes are available: Auto/Semi-Auto/Manual

Minimum focus Distance: Set the minimum focus distance to adjust the step length of each focus. 1 meter, 1.5 meters, 3 meters, 6 meters, 10 meters and 20 meters are available. The default minimum focus distance is 1 meter

Step 7. Set Power Off Memory

If the camera stop working for a longer time than predefined, the position of it will be recorded. And it will resume to the position after going back to the normal work from power off. You can set the resume time to 30 seconds, 60 seconds, 300 seconds or 600 seconds to record its position

Step 8. Set Dehumidifying.

Fan Working Mode: Three fan working modes are available: General/Enhancement/Constant

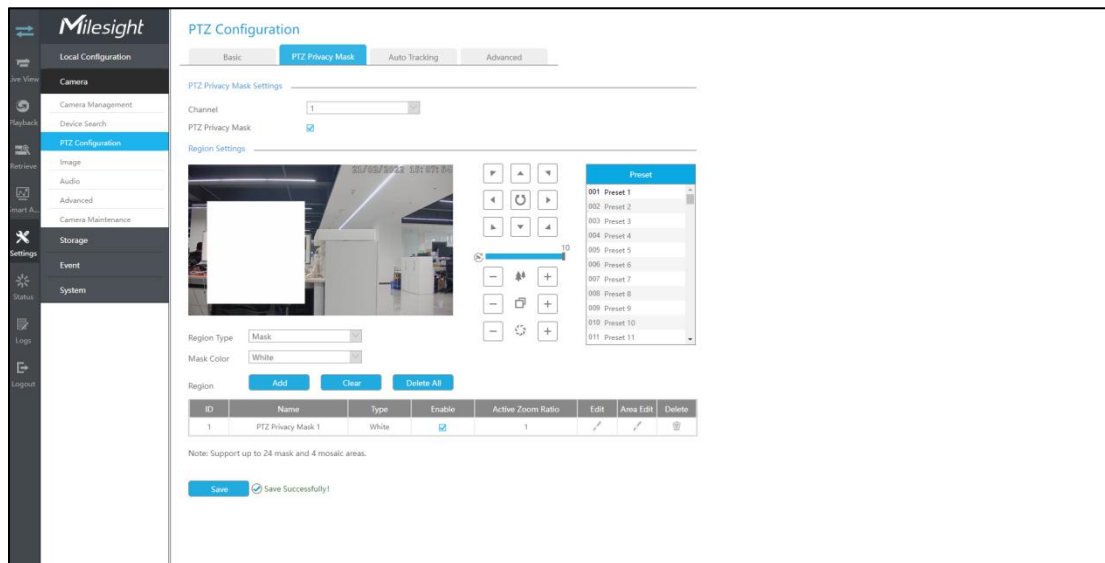
General: The fans are turned on from 4am to 7am and 5pm to 8pm every day

Enhancement: The fans are turned on from 5pm to 7am every day

Constant: The fans work 24 hours a day

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.




You can add a privacy mask by following steps:

Step 1. Select channel and enable Privacy Mask.

Step 2. Select the Region Type as Mask or Mosaic.

Step 3. Drag the mouse to select the area which needs to be protected on the live view window

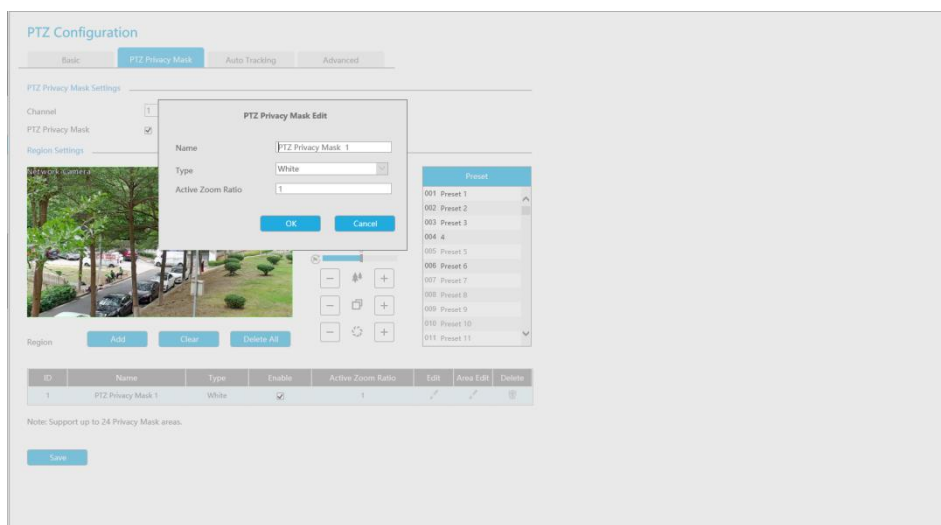
and then click “  ” button to add the area to the table. You can add **24 masks and 4 mosaic areas** at most and each zone can be enabled and disabled. Please note that the areas

added to the table will not take effect until you click “  ”.

Note:

- ① Ensure that your camera model isn't Lite series, or camera's version isn't 40.X.X.XX, 41.X.X.XX, and 46.X.X.XX.
- ② Ensure that your NVR version is V7x.9.0.14 or above, and camera version is Vxx.7.0.79 or above to support the mosaic area.

Step3. Click  to edit PTZ Privacy Mask Name, the Privacy Mask Type and Active Zoom Ratio.



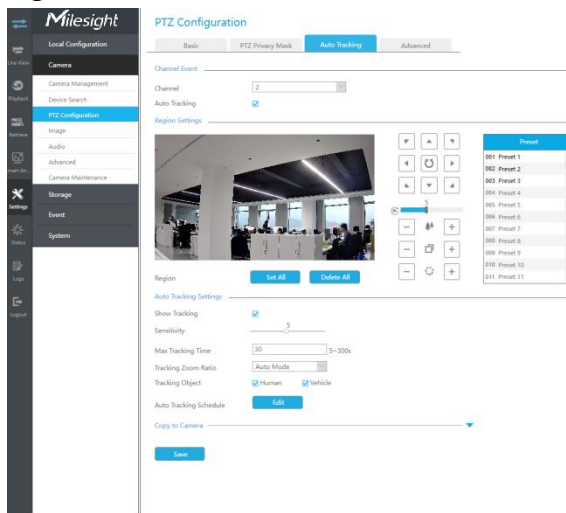
Step4. Select “” to save the settings.

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 Configuration

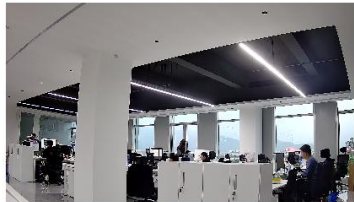
Basic PTZ Privacy Mask **Auto Tracking** Advanced

Channel Event

Channel

Auto Tracking

Region Settings



Region

Auto Tracking Settings

Show Tracking

Sensitivity

Max Tracking Time 5-300s

Tracking Zoom Ratio

Tracking Object Human Vehicle

Tracking Zoom Ratio Settings

Auto Tracking Schedule

Copy to Camera

Please set the tracking zoom ratio by adjusting the zoom button.

Step7. Check the type of tracking object as Human or Vehicle.

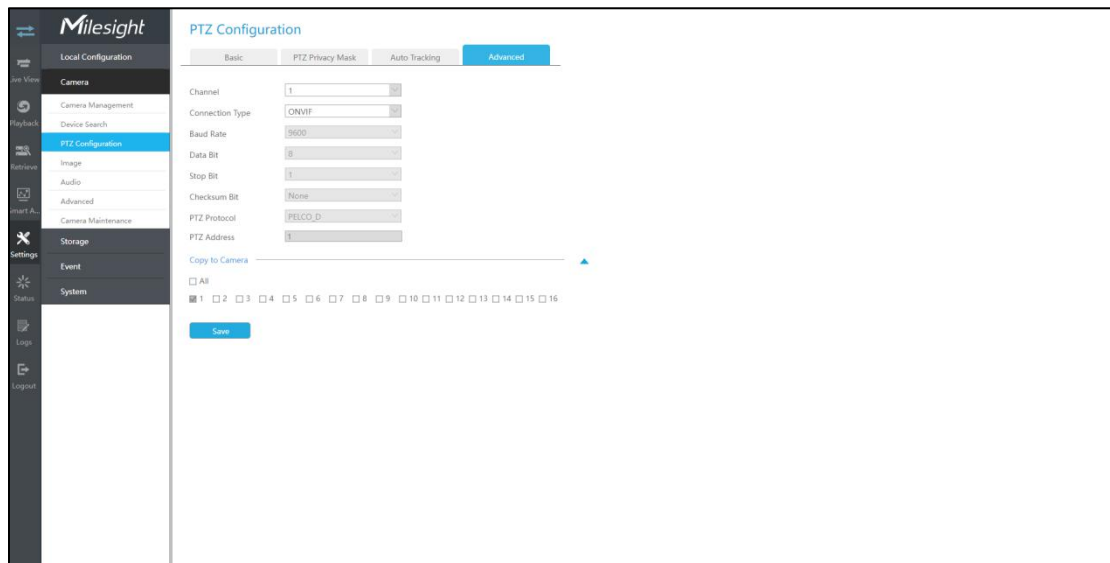
Step8. Click to edit Auto Tracking Schedule which will be synchronized to IP Camera.

Note:

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

Advanced

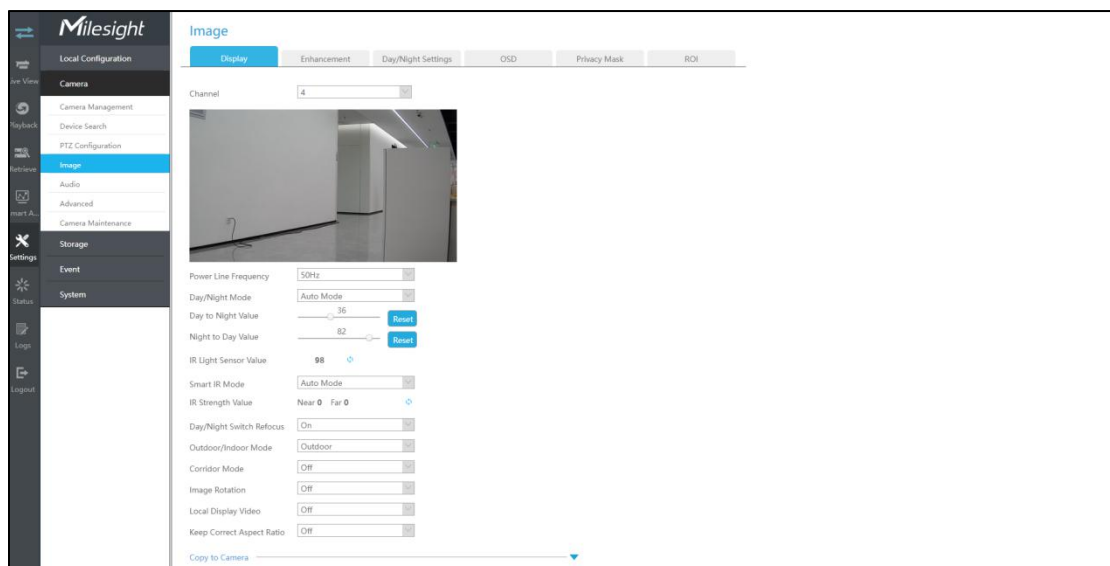
Choose a channel and set the PTZ parameters. Besides, you can select [Copy to Camera] to copy the same configuration to other channels.

**Note:**

- 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.
- 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.

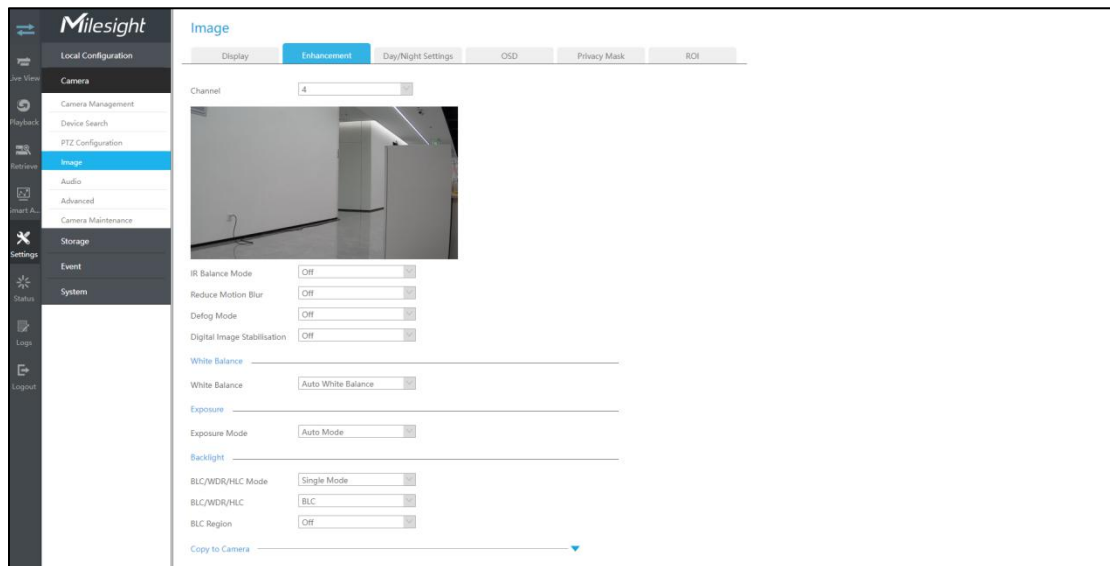
Step3. You can click [Copy to Camera] to copy the same configuration to other channels.



Step4. Click save to save the settings.

Enhancement

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



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.

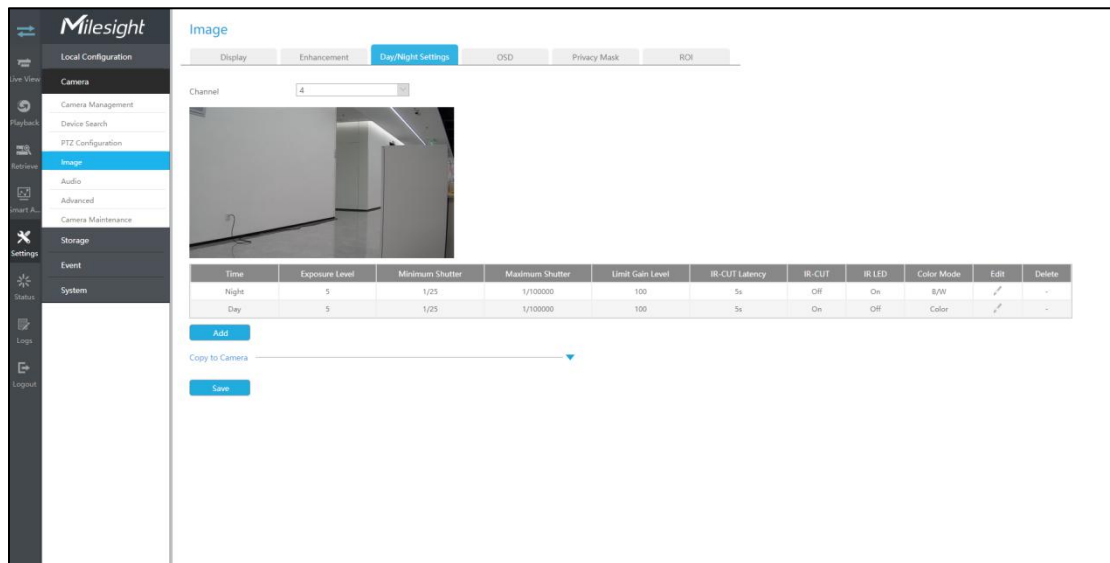
Anti-flicker Level: Reduce flickers that appear on screen in some lighting conditions and there are 10 levels of anti-flicker adjustments.

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



Step4. Click save to save the settings.

Day/Night Settings



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.

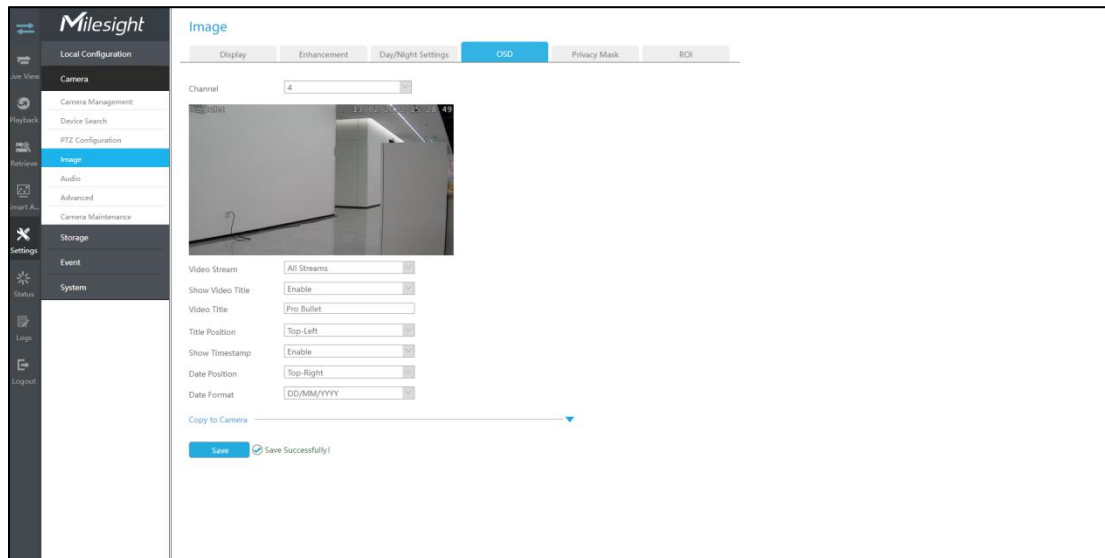
Step3. You can click [Copy to Camera] to copy the same configuration to other channels.



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.

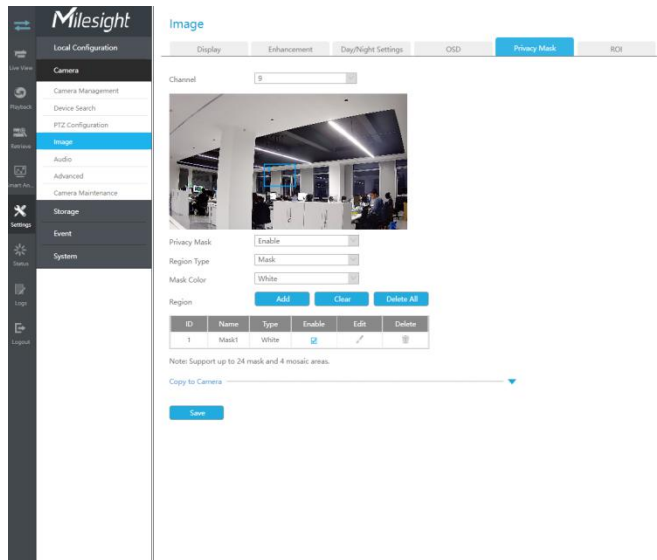
Step3. You can click **[Copy to Camera]** to copy the same configuration to other channels.



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.




You can add a privacy mask by following steps:

Step1. Select channel and enable privacy mask.

Step 2. Select the Region Type as Mask or Mosaic.

Step 3. Drag the mouse to select the area which needs to be protected on the live view window

and then click “  ” button to add the area to the table. You can add **24 masks and 4 mosaic areas** at most and each zone can be enabled and disabled. Please note that the areas

added to the table will not take effect until you click “  ”.

Note:

- ① Ensure that your camera model isn't Lite series, or camera's version isn't 40.X.X.XX, 41.X.X.XX, and 46.X.X.XX.
- ② Ensure that your NVR version is V7x.9.0.14 or above, and camera version is Vxx.7.0.79 or above to support the mosaic area.

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

Copy to Camera 

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

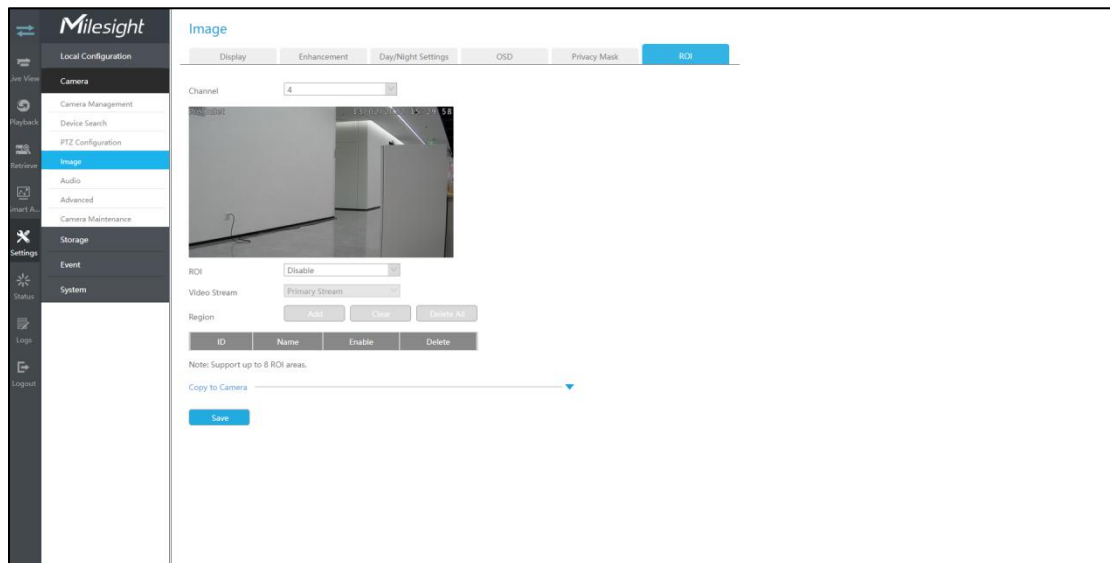
Step4. Click save to save the settings.

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 to achieve bandwidth and storage optimization, including Primary Stream and Secondary Stream. And drag the mouse to select the area in the preview window. Then click “  ” button to add the area to the table. You can add 8 areas at most and each zone can be enabled and disabled. Please note that the areas added to the table will not take effect until you click “  ”.

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

Copy to Camera 

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

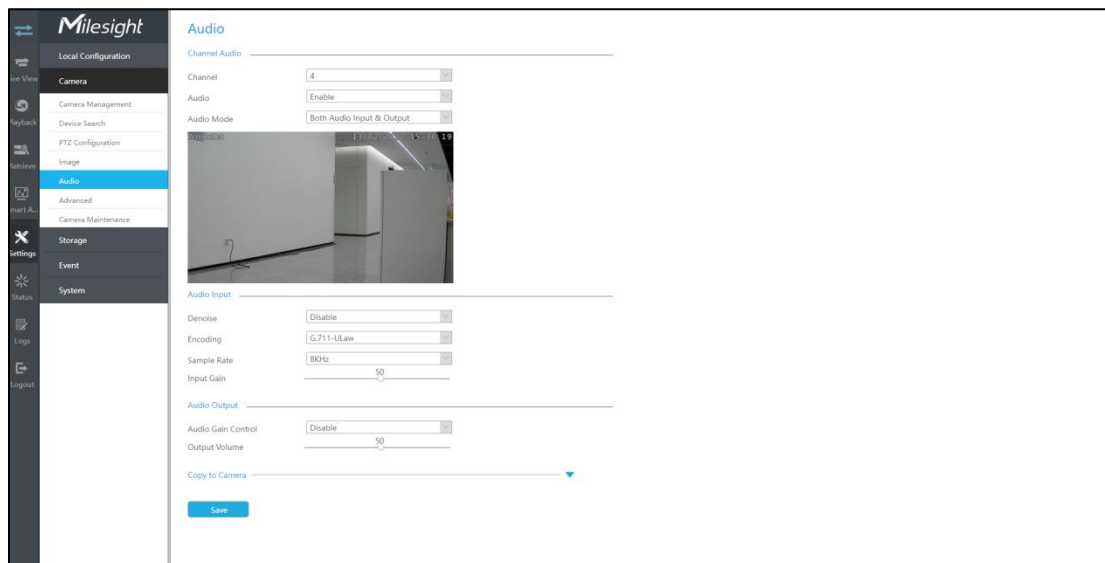
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64

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

4.8.2.6.1 Watermark

Advanced

Watermark

Channel



Watermark

Watermark String

Copy To Camera

Save

You can add a watermark by following steps:

Step1. Select channel.

Step2. Click the checkbox to enable Watermark.

Step3. Enter Watermark String.

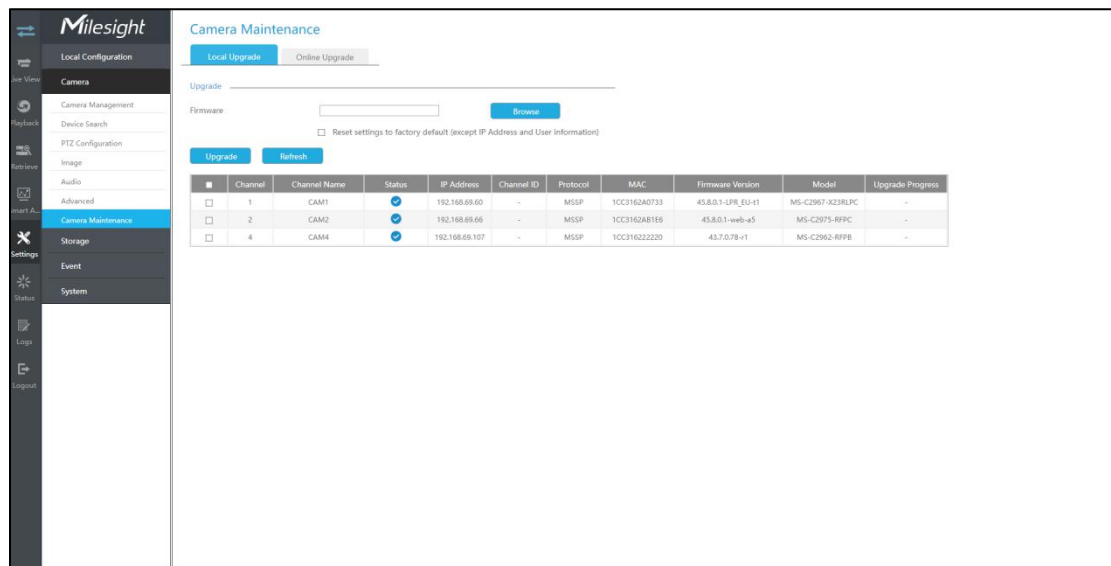
Step4. Copy the image settings to other channels.

Step5. Select Save to save the settings.

Note:

Watermark only appears when exporting by a third party.

4.8.2.7 Camera Maintenance

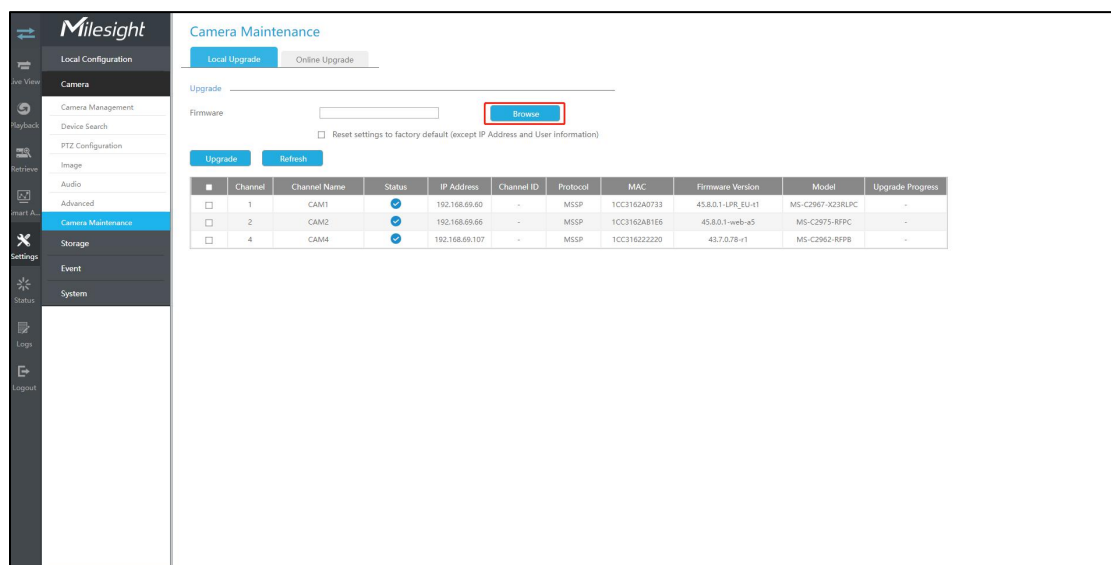


The screenshot shows the 'Camera Maintenance' page in the Milesight web interface. At the top, there are two tabs: 'Local Upgrade' (selected) and 'Online Upgrade'. Below the tabs, there is a 'Firmware' input field and a 'Browse' button. A checkbox option is present: Reset settings to factory default (except IP Address and User Information). Below this, there are 'Upgrade' and 'Refresh' buttons. A table lists the camera channels with their respective details and upgrade progress.

Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Upgrade Progress
<input type="checkbox"/>	1	CAM1	192.168.69.60	-	MSSP	1CC3162A0733	45.8.0.1-LPR_EU-41	MS-C2967-X23RLPC	-
<input type="checkbox"/>	2	CAM2	192.168.69.66	-	MSSP	1CC3162A81E6	45.8.0.1-web-a5	MS-C2975-RFPC	-
<input type="checkbox"/>	4	CAM4	192.168.69.107	-	MSSP	1CC3162222D0	43.7.0.79-v1	MS-C2962-RFPB	-

Local Upgrade

Step1. Click **Browse** to select the corresponding firmware.



This screenshot is identical to the previous one, but the 'Browse' button is highlighted with a red rectangular box to indicate the next step in the process.

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

Camera Maintenance

Local Upgrade | Online Upgrade

Upgrade

Firmware:

Reset settings to factory default (except IP Address and User information)

	Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Upgrade Progress
<input type="checkbox"/>	1	CAM1	<input checked="" type="checkbox"/>	192.168.69.60	-	MSSP	1CC3162A0733	45.8.0.1-LPR_EU-v1	MS-C2967-X23RIPC	-
<input type="checkbox"/>	2	CAM2	<input checked="" type="checkbox"/>	192.168.69.66	-	MSSP	1CC3162A81E6	45.8.0.1-Web-v5	MS-C2975-RFPC	-
<input type="checkbox"/>	4	CAM4	<input checked="" type="checkbox"/>	192.168.69.107	-	MSSP	1CC316222220	43.7.0.78-v1	MS-C2962-RFPB	-

Step3. Choose the corresponding channel you want to upgrade and click to upgrade the camera.

Camera Maintenance

Local Upgrade | Online Upgrade

Upgrade

Firmware:

Reset settings to factory default (except IP Address and User information)

	Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Upgrade Progress
<input checked="" type="checkbox"/>	1	CAM1	<input checked="" type="checkbox"/>	192.168.69.60	-	MSSP	1CC3162A0733	45.8.0.1-LPR_EU-v1	MS-C2967-X23RIPC	-
<input checked="" type="checkbox"/>	2	CAM2	<input checked="" type="checkbox"/>	192.168.69.66	-	MSSP	1CC3162A81E6	45.8.0.1-Web-v5	MS-C2975-RFPC	-
<input checked="" type="checkbox"/>	4	CAM4	<input checked="" type="checkbox"/>	192.168.69.107	-	MSSP	1CC316222220	43.7.0.78-v1	MS-C2962-RFPB	-

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.

The screenshot shows the 'Camera Maintenance' page in the Milesight web interface. The page has a sidebar on the left with navigation options like 'Local Configuration', 'Camera Management', 'Storage', 'Event', and 'System'. The main content area is titled 'Camera Maintenance' and contains a table with columns: Channel, Channel Name, Status, IP Address, Channel ID, Protocol, MAC, Firmware Version, Model, Latest Version, Upgrade, and Upgrade Progress. There are three buttons at the top: 'Check', 'Upgrade', and 'Refresh'. The 'Check' button is highlighted with a red box. In the table, the 'Upgrade' column for three rows (CAM1, CAM2, CAM4) has a blue upward-pointing arrow icon, which is also highlighted with a red box.

Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrade Progress
<input type="checkbox"/>	1	CAM1	192.168.69.60	-	MSSP	1CC3162A0733	45.8.0.1-LPR_EU-v1	MS-C2967-X238LPC	-	⬆️	-
<input type="checkbox"/>	2	CAM2	192.168.69.66	-	MSSP	1CC3162AB1E6	45.8.0.1-web-a5	MS-C2975-RFPC	-	⬆️	-
<input type="checkbox"/>	4	CAM4	192.168.69.107	-	MSSP	1CC316222220	43.7.0.78-v1	MS-C2962-RFPB	-	⬆️	-

Step2. There are two ways to confirm the upgrade.

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

This screenshot is identical to the one above, but the 'Upgrade' button at the top of the page is highlighted with a blue box. The blue upward-pointing arrow icons in the 'Upgrade' column of the table are also highlighted with red boxes.

② A way to achieve batch upgrade. Just select the cameras you want to upgrade and then click **Upgrade** button.

Camera Maintenance

Local Upgrade | Online Upgrade

Check | Upgrade | Refresh

Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrade Progress
<input type="checkbox"/>	1	CAM1	192.168.69.60	-	MSSP	1CC316240733	45.8.0.1-LPR_EU-41	MS-C2967-X23RLPC	-	⬆️	-
<input type="checkbox"/>	2	CAM2	192.168.69.66	-	MSSP	1CC31624B1E6	45.8.0.1-web-a5	MS-C2975-RFPC	-	⬆️	-
<input type="checkbox"/>	4	CAM4	192.168.68.107	-	MSSP	1CC316222220	43.7.0.78-1	MS-C2962-RFPB	-	⬆️	-

4.8.3 Storage

Preparation for Configuration

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

Disk Management

HDD Management | Network Disk

Port	Vendor	Status	Total	Free	Property	Type	Group	Edit	Delete
<input type="checkbox"/>	26	RAID	Normal	931.38GB	782.00GB	R/W	RAID1	1	-

Total Capacity: 931.38GB
Available Capacity: 782.00GB

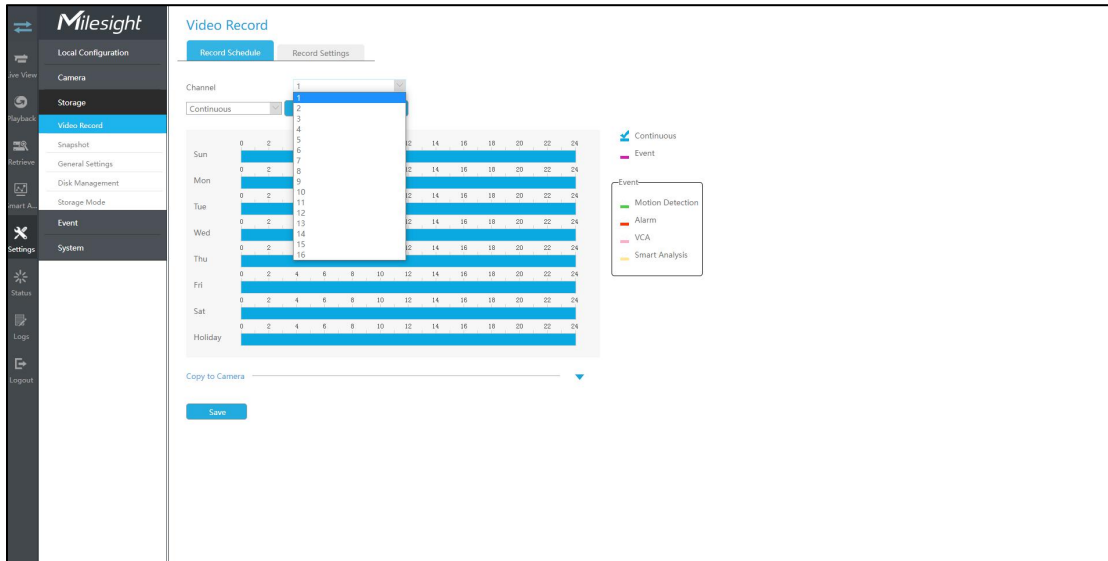
Refresh | Initialize

4.8.3.1 Video Record

Record Schedule

Step1. Select Record Schedule.

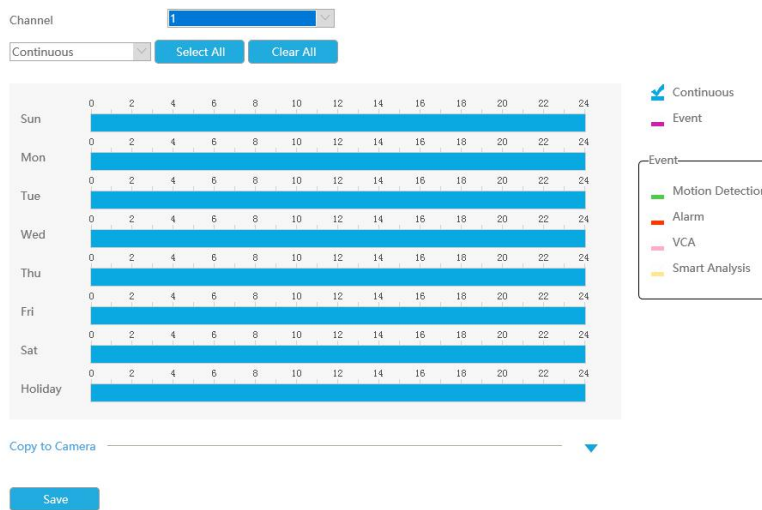
Step2. Select the desired channel.



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

schedule by clicking  or .



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



Click  to copy time setting to other days.



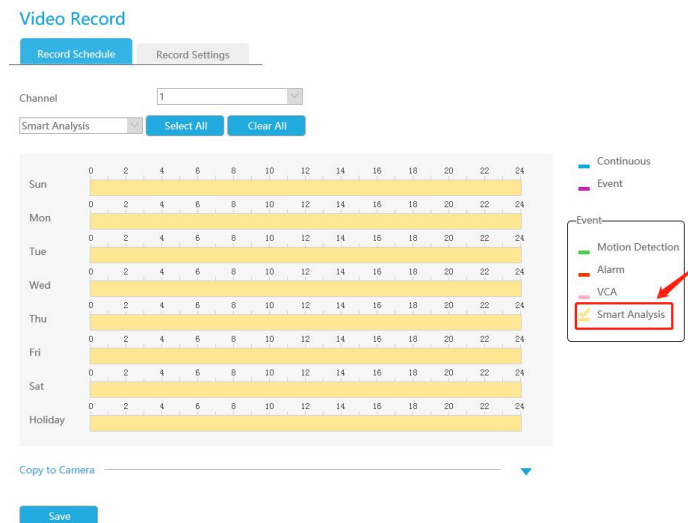
Click [Copy to Camera] to copy the same configuration to other channels.



Note:

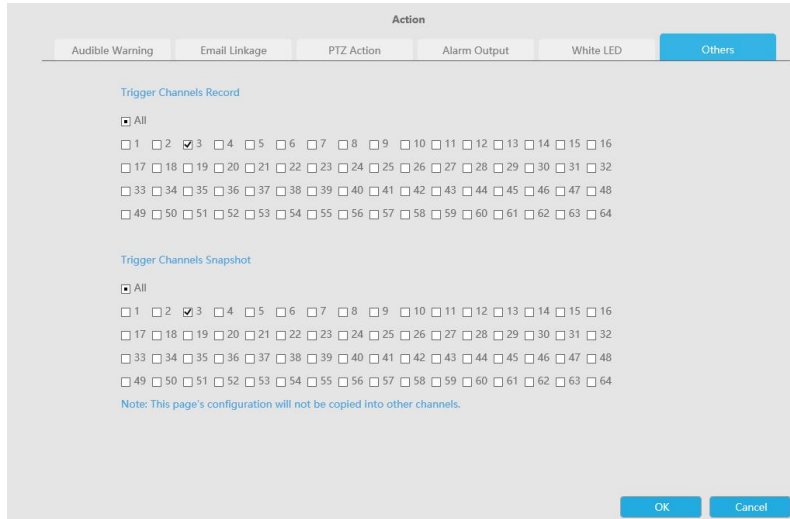
Here are steps for setting ANPR record correctly so that NVR will record when license plate is detected.

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.



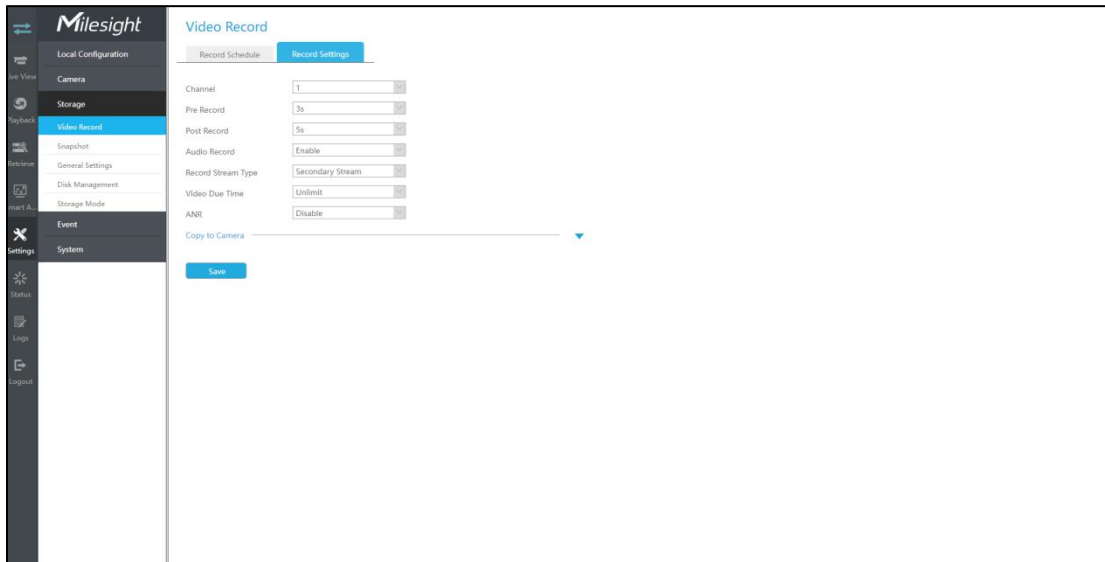
Step2: Ensure Black List Mode or White List Mode or Visitor Mode is enabled as your demand.

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).



Record Settings

Make record settings for selected channels.



Channel: Select the channel which will be set.

Pre Record : Event pre-record duration time. It will start recording before the event is triggered.

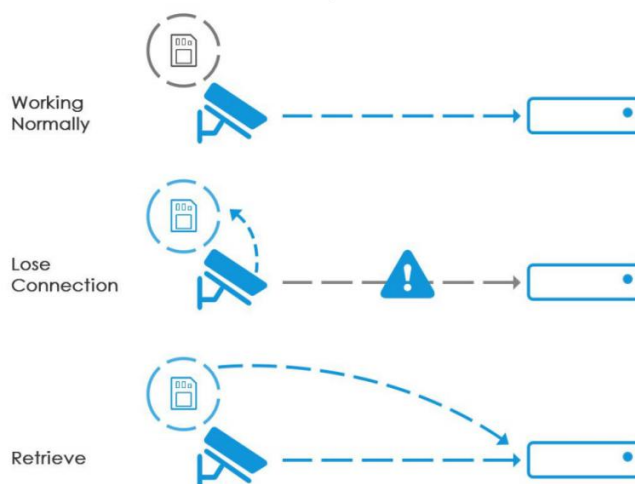
Post Record: Event post-record duration time. It will keep recording after the event is over.

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 be 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.



4.8.3.2 Snapshot

Note: NVR models ending with the letter C do not support this function.

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](#).

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

Click  to copy time setting to other days.

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

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.

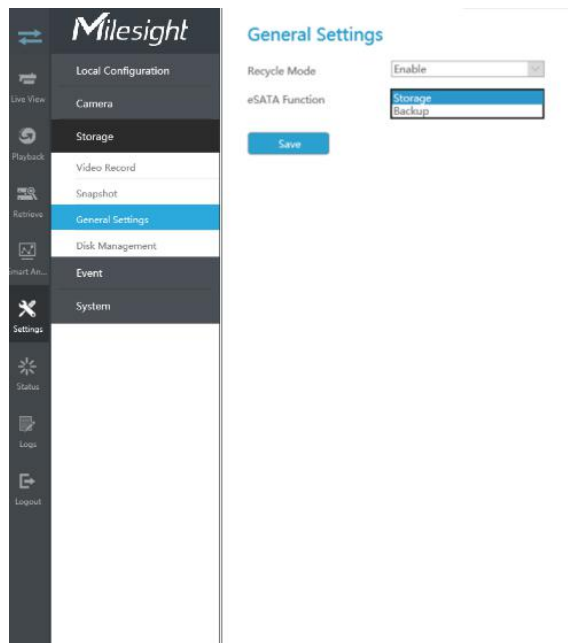
Snapshot Interval: Set the snapshot Interval, 3~86400 seconds are available.

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

Note:

Some models support continuous snapshot function.

4.8.3.3 General Settings



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.

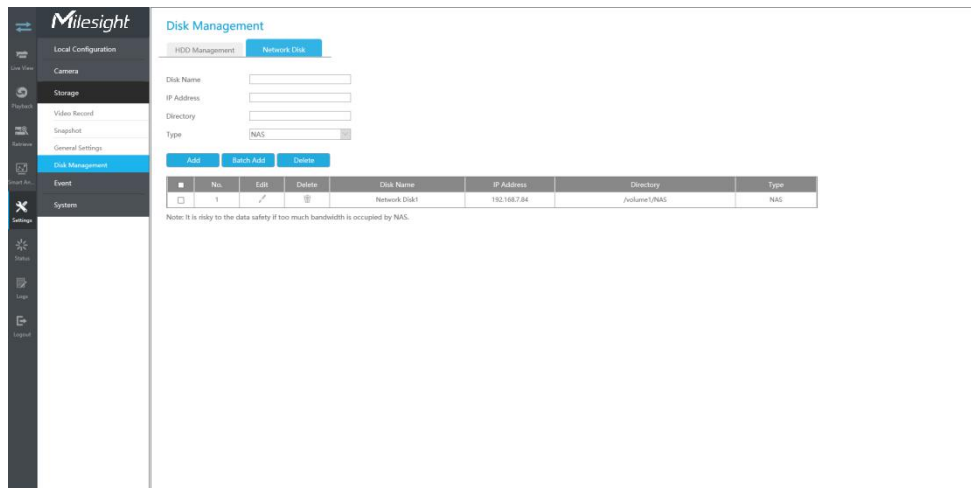


Network Disk

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

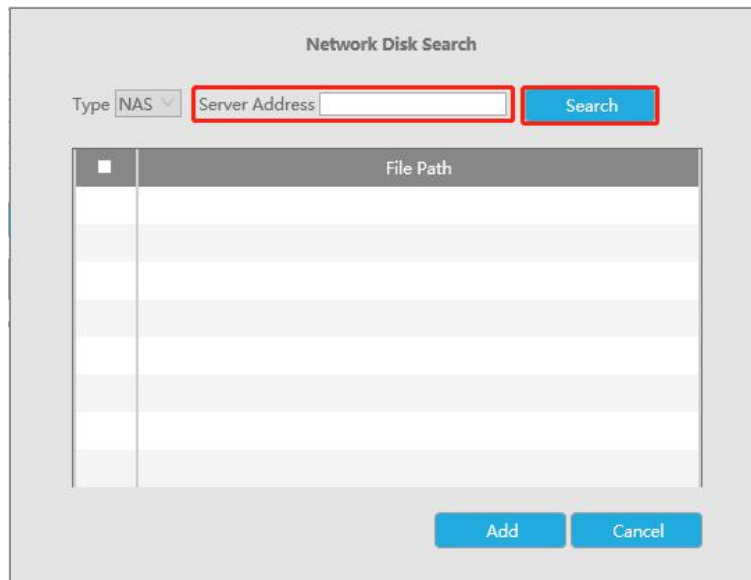
Note:

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.



You can add it manually or search local NAS by clicking

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.

Channel	Channel Name	Used Record Capacity (GB)	Used Snapshot Capacity (GB)	Record Quota (GB)	Snapshot Quota (GB)
1	CAM1	92	34	0	0
2	CAM2	2	0	0	0
3	CAM3	18	0	0	0
4	CAM4	1	1	0	0
5	CAM5	0	0	0	0
6	CAM6	0	0	0	0
7	CAM7	0	0	0	0

Step 1. Enable Quota.

Quota

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

Used Record Capacity (GB)

Used Snapshot Capacity (GB)

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) 4~16384

Snapshot Quota (GB) 4~16384

Step 4. Click to take effect the configuration of the current interface.

Click to expand "Copy to Camera", then the Quota configuration of the selected channel can be copied to the channel you want, and click to take effect the configuration.

Copy to Camera

All

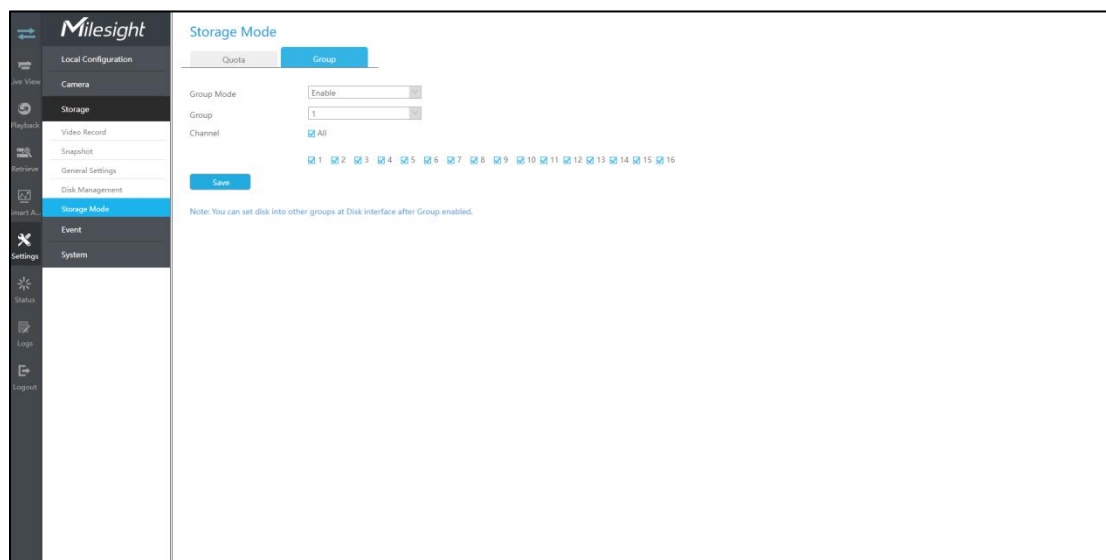
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64

Save

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.



Step 1. Enable Group.

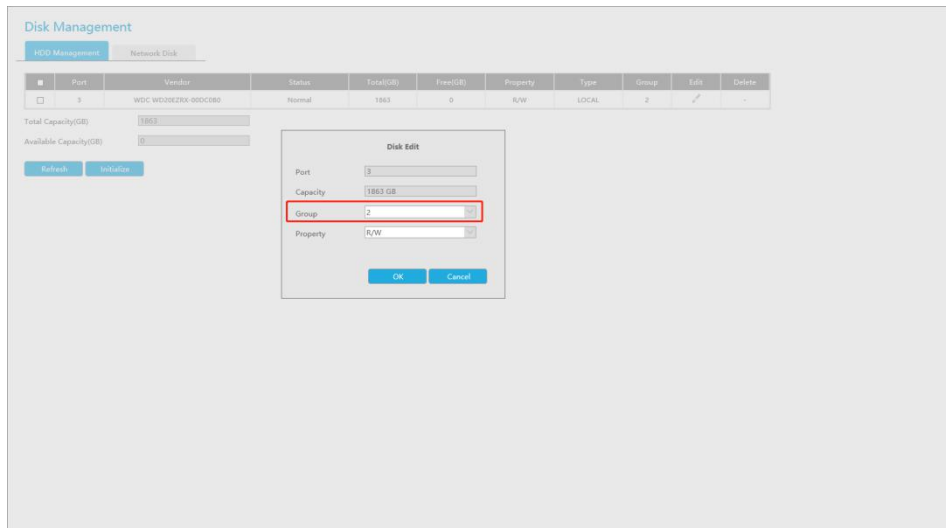
Group Mode

Enable

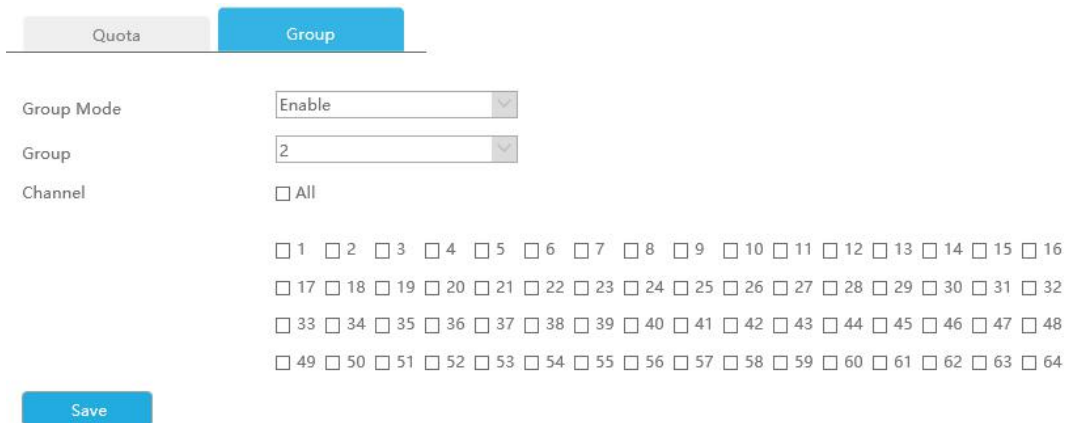
Step 2. Switch to Disk Management interface. Click  and set the group number of every disk.

Note:

You can add 16 groups at most.

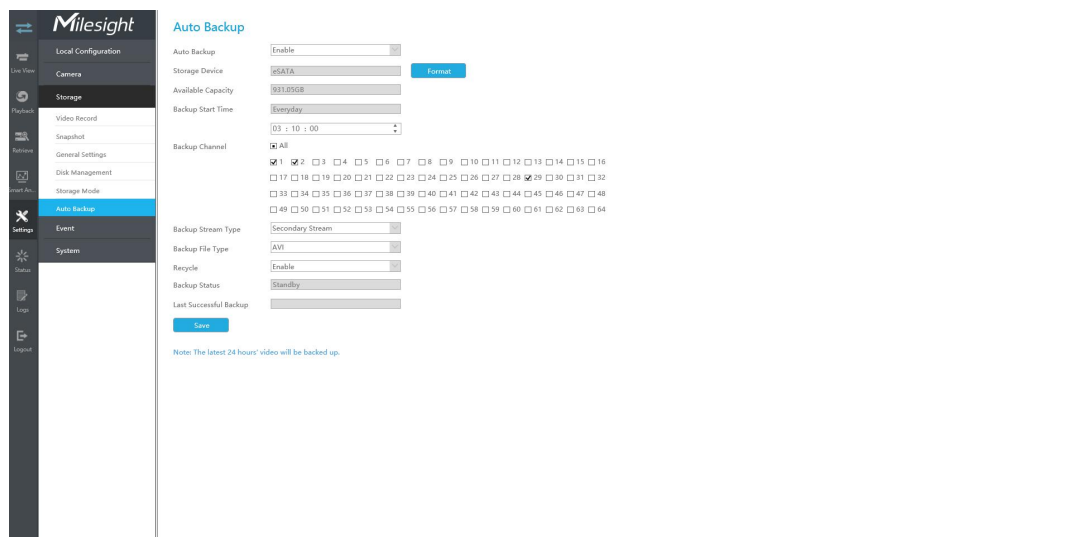


Step 3. Select group and channels which you want to record into this group.



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

Step 2. Click to format the eSATA disk.

Storage Device

Step 3. Set Backup Start Time.

Backup Start Time

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.

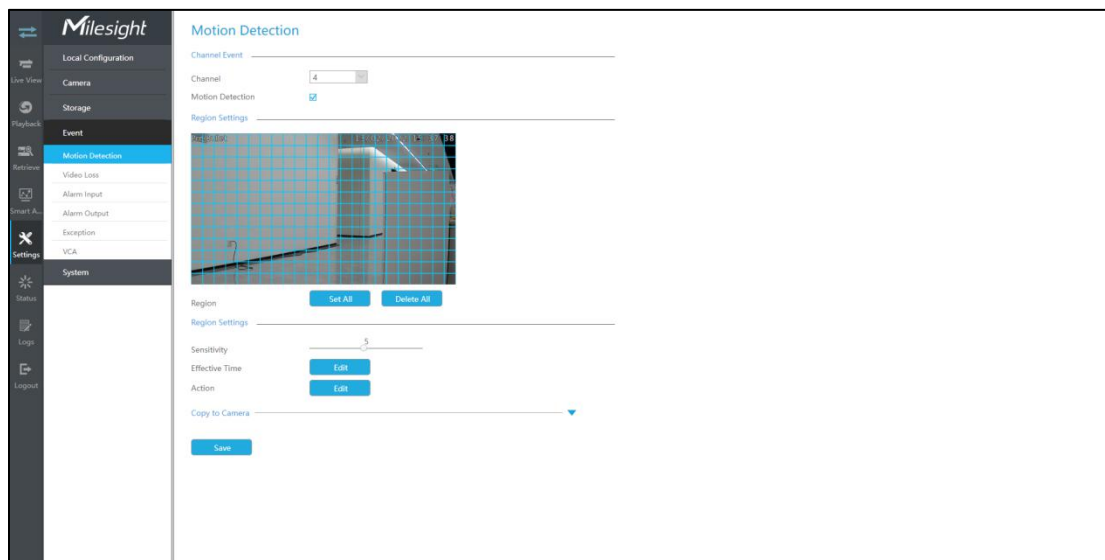
- No Storage Device
- Unsupported Storage Device Format
- Standby
- Working (xx%)

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



Step 1. Enable Motion Detection.

Select channel , Sensitivity and click to enable Motion Detection.

Motion Detection

Channel Event _____

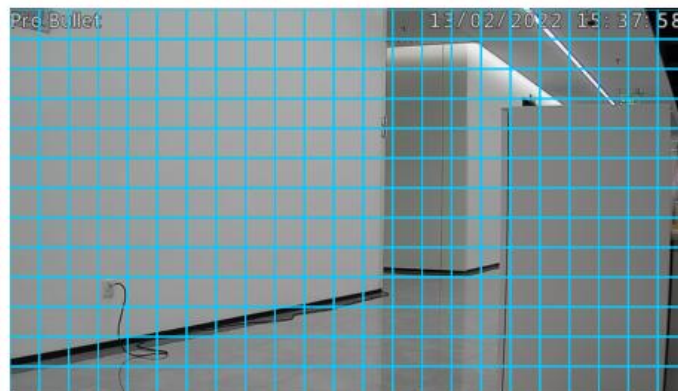
Channel

Motion Detection

Step2: Set the area for triggering motion detection.

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





Region

Set All

Delete All

Edit

Step 3. Set Effective Time of motion detection by clicking

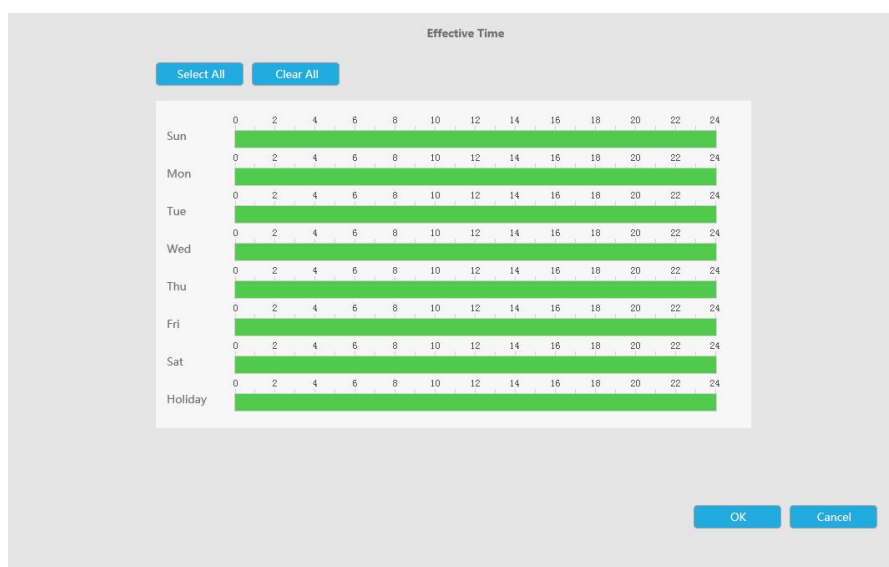
NVR receives the alarm when effective time has been set. It will be more convenient by clicking

Select All

or

Clear All

to set or clear all time settings.



Step 4. Set Action for motion detection alarm by clicking

Edit

Audible Warning: NVR will trigger an audible warning 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

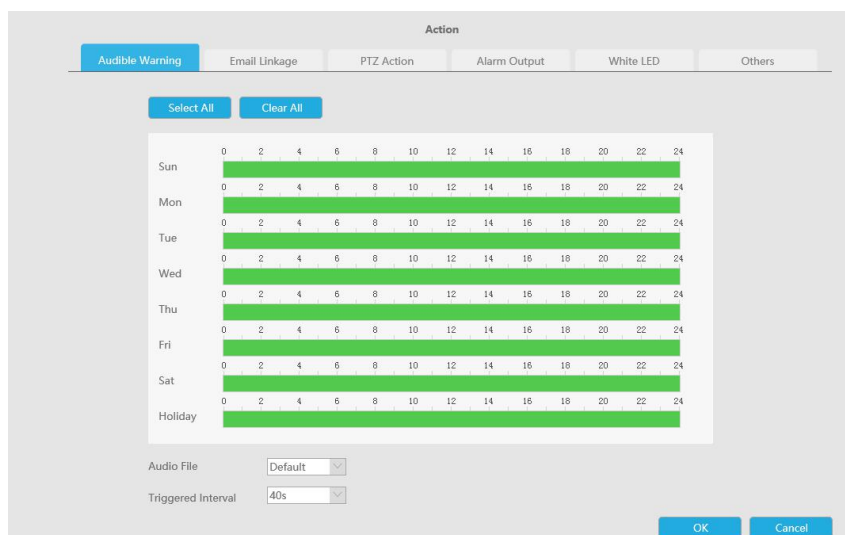
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

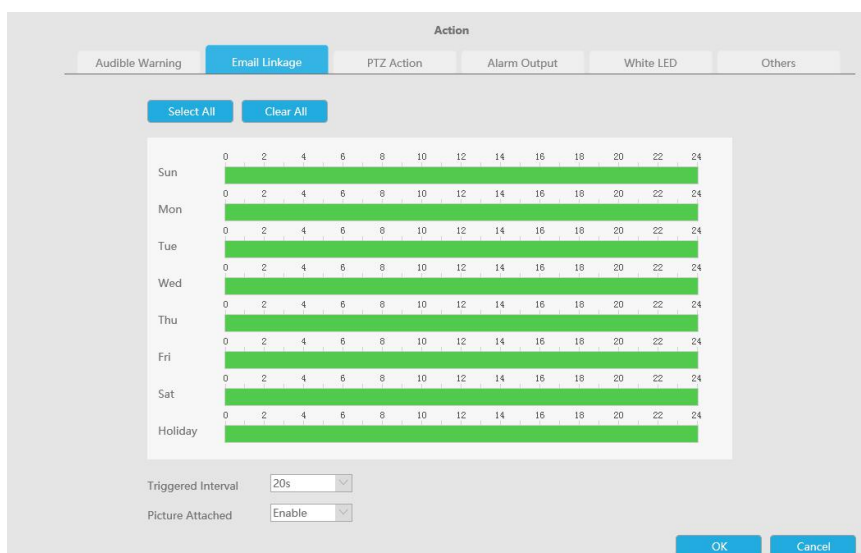
Select All or **Clear All** to set or clear all time settings.

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 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 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.

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.

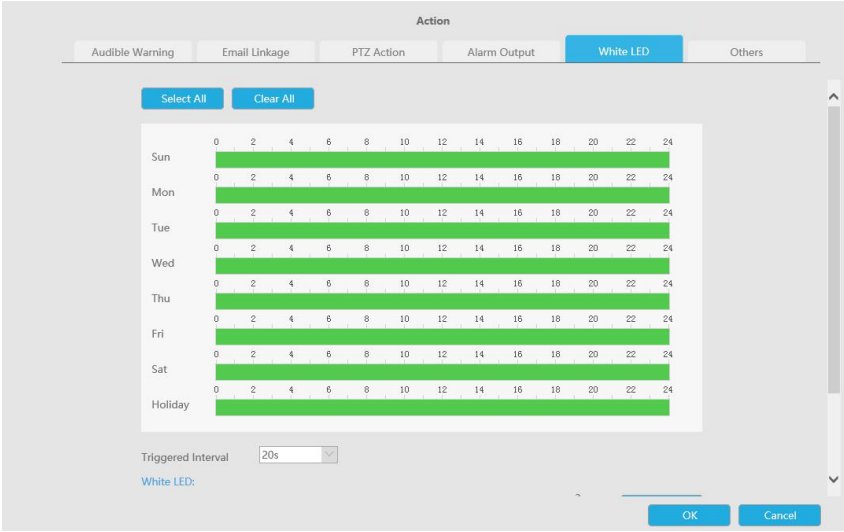
Drag a line on the time table for time setting. It will be more convenient by clicking

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

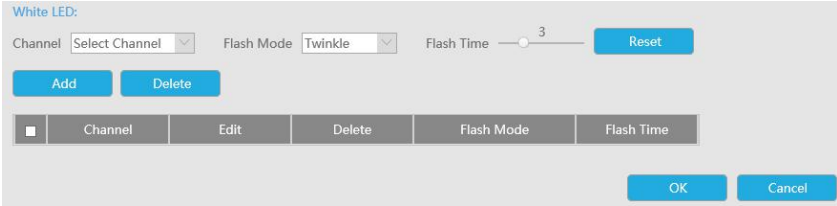
Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

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



And you can add White LED.

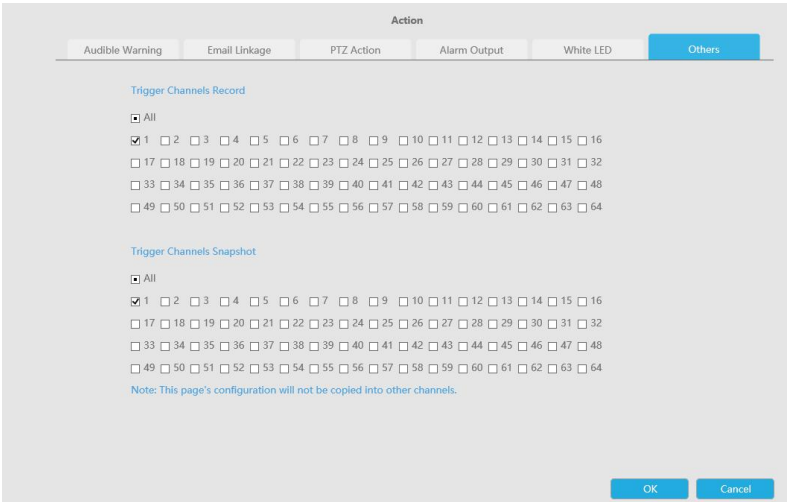


Channel: Select the channel which supports this function.

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.

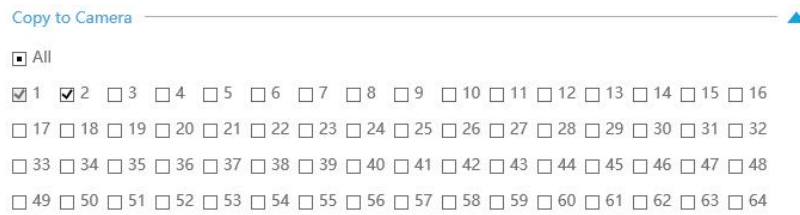
Others: Trigger selected channels to record and snapshot when alarm is triggered.



Note:

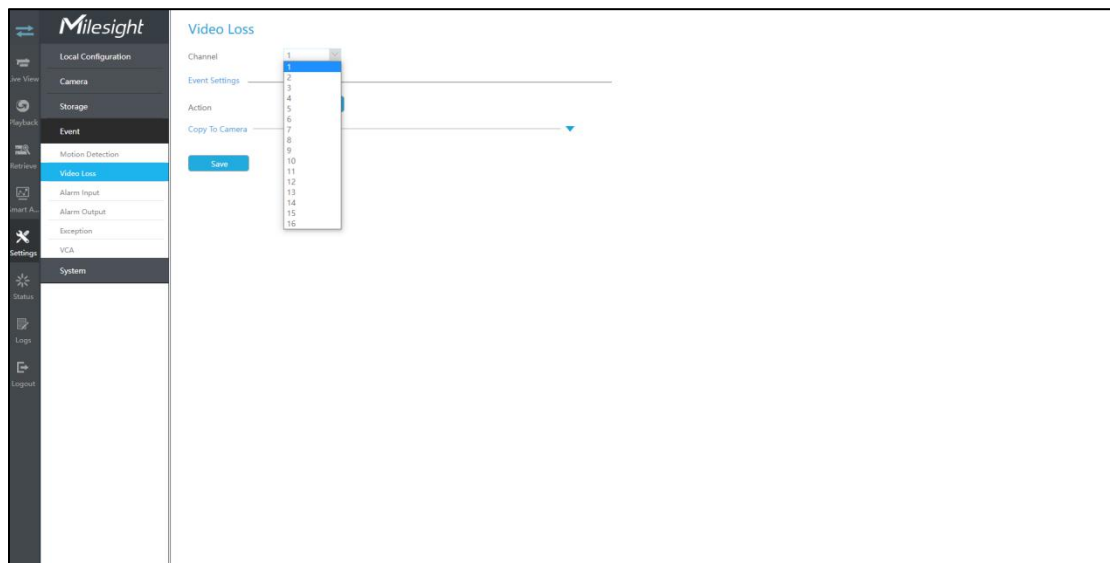
Make sure you have set correct schedule for record and snapshot before setting the Event Action.

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 warning when alarm is triggered.

Drag a line on the time table for time setting. It will be more convenient by clicking

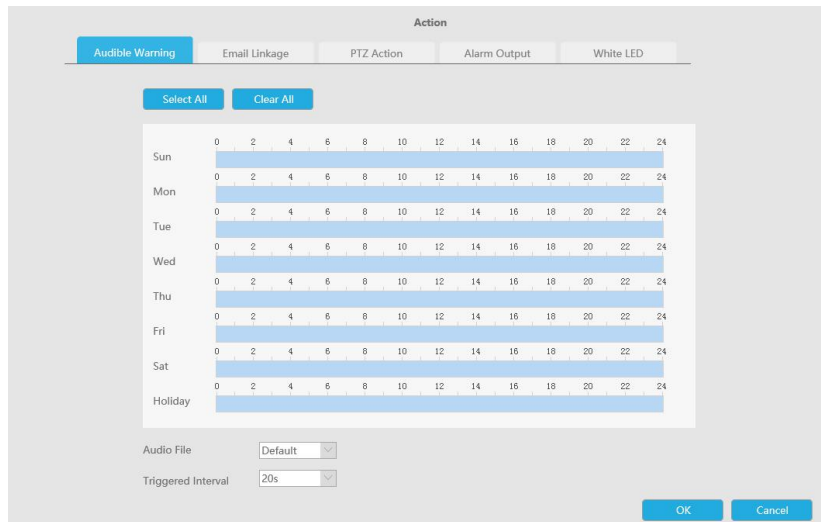
or to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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




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

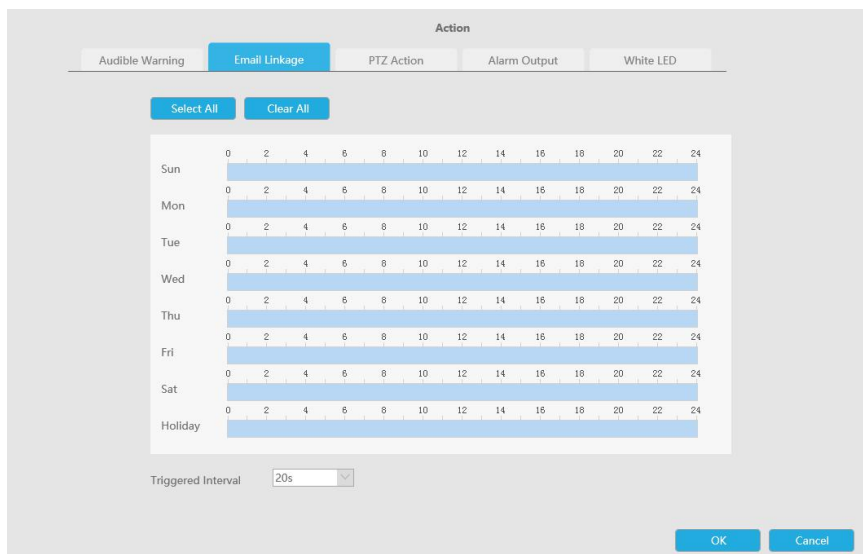
Drag a line on the time table for time setting. It will be more convenient by clicking

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.




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

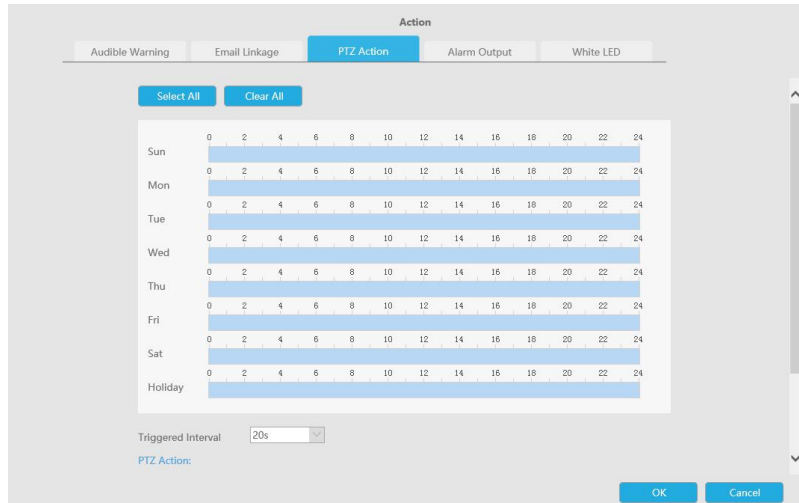
Drag a line on the time table for time setting. It will be more convenient by clicking

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

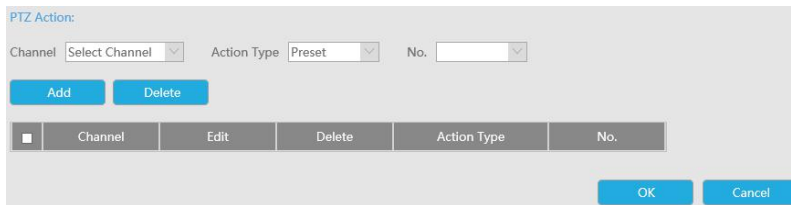
Moreover, you can click time bar to edit the time accurately.

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.



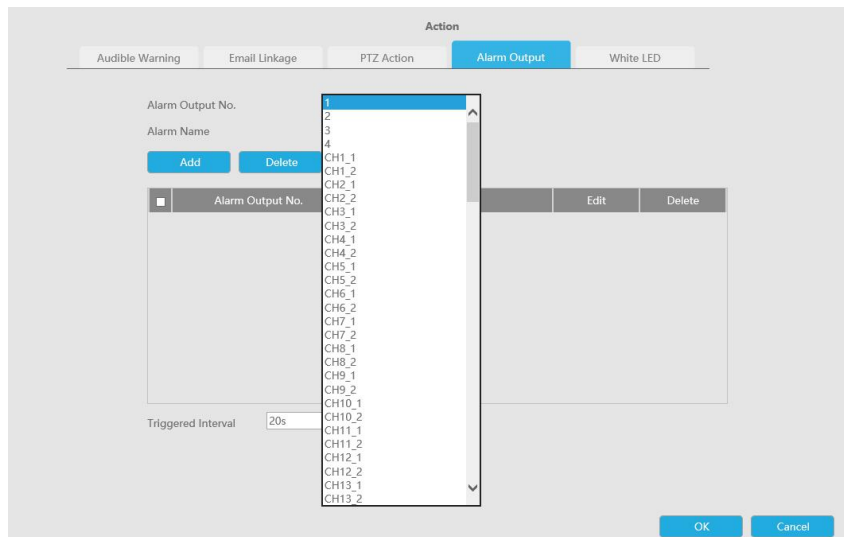
Channel: Select the channel which supports this function.

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

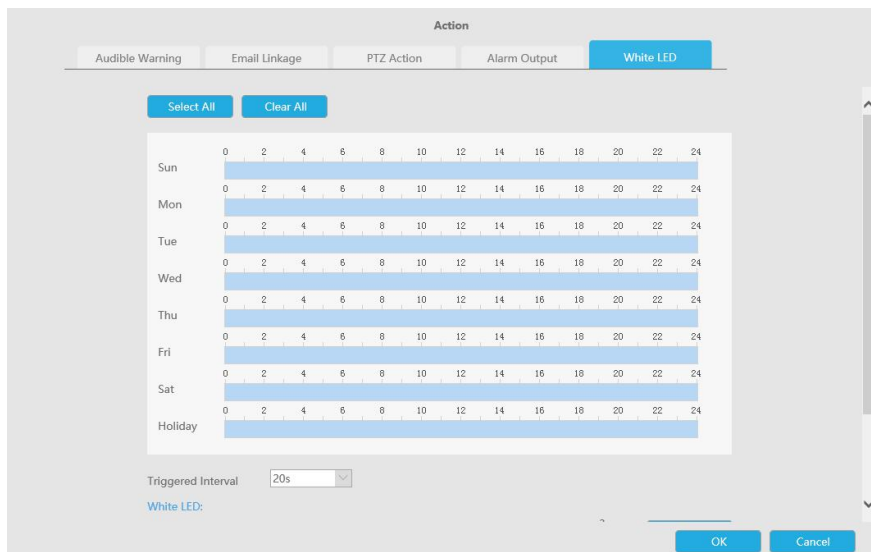


to set or clear all time settings.

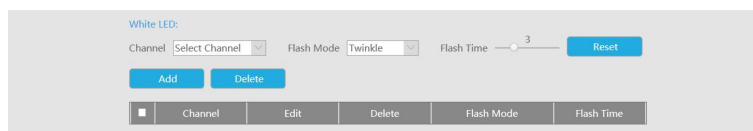
Moreover, you can click time bar to edit the time accurately.

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.



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.



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

Alarm Input No.

Alarm Name (cannot copy)

Alarm Type

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

Alarm Name: Set a name for the alarm.

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

Step 2. Set effective time for alarm input.

Step3. Set action for alarm input.

Audible Warning: NVR will trigger an audible warning 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.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

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

Audio File

Triggered Interval


OK
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

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

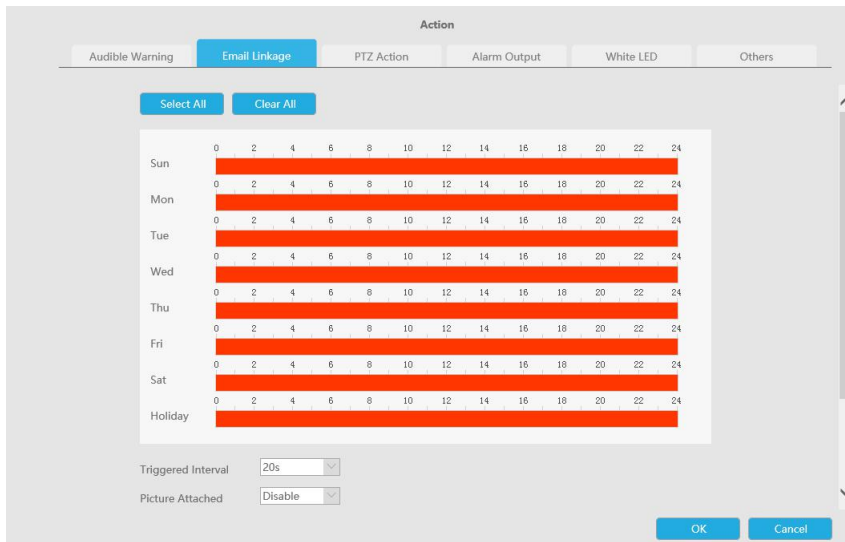
Moreover, you can click time bar to edit the time accurately.

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 triggered.




The screenshot shows the 'Action' configuration window with the 'Email Linkage' tab selected. The window contains a 24-hour time bar for each day of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat, Holiday). The time bars are currently red. Below the time bars, there are dropdown menus for 'Triggered Interval' (set to 20s) and 'Picture Attached' (set to Disable). Buttons for 'Select All', 'Clear All', 'OK', and 'Cancel' are visible.

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

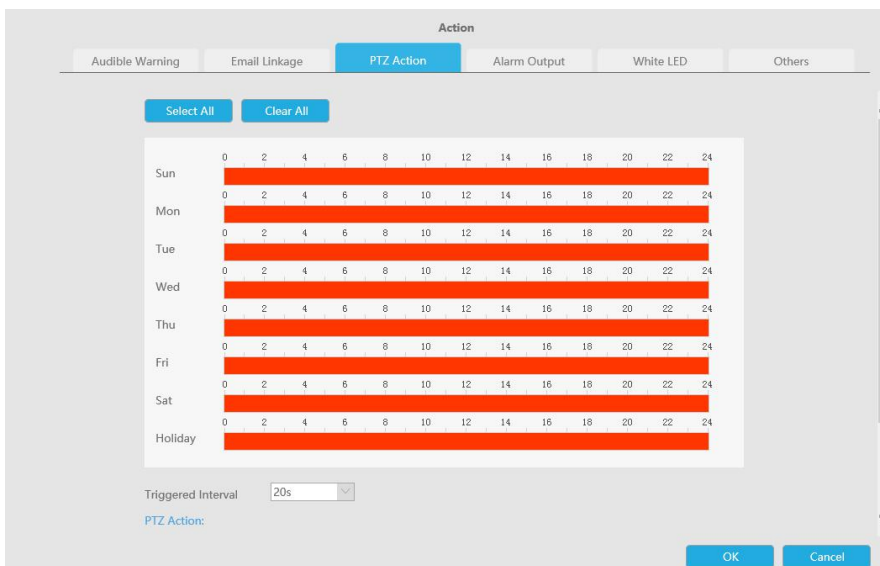
Drag a line on the time table for time setting. It will be more convenient by clicking

 or  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.



The screenshot shows the 'Action' configuration window with the 'PTZ Action' tab selected. The window contains a 24-hour time bar for each day of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat, Holiday). The time bars are currently red. Below the time bars, there are dropdown menus for 'Triggered Interval' (set to 20s) and 'PTZ Action'. Buttons for 'Select All', 'Clear All', 'OK', and 'Cancel' are visible.

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 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

or

Clear All

to set or clear all time settings.

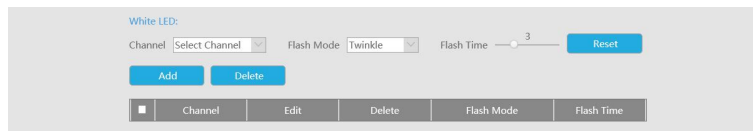
Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

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



And you can add White LED.



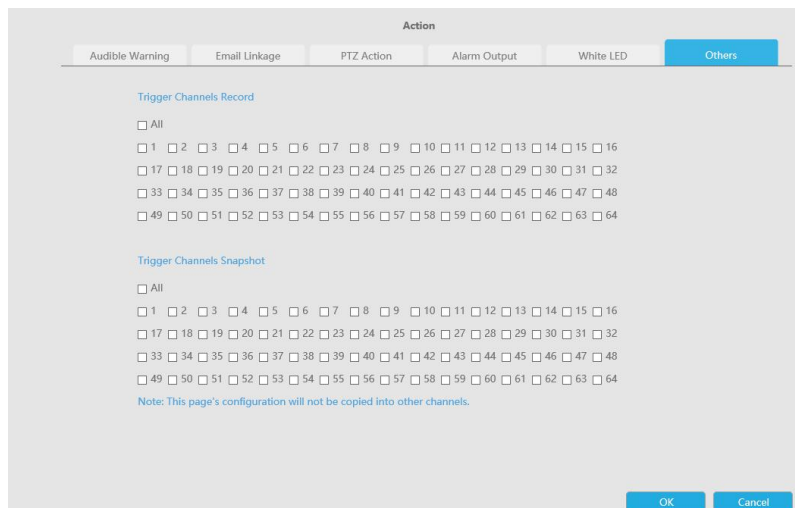
Channel: Select the channel which supports this function.

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.



Step 4. Click [Copy to Alarm] and to copy the same configuration to other channels.

Copy to Alarm  All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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

NVR Alarm Input

Camera Alarm Input

Channel	2	▼
Alarm Input No.	1	▼
Alarm Input	<input type="checkbox"/>	
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.

Step2. Set action for Alarm Input.

Audible Warning: NVR will trigger an audible warning when **camera** 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

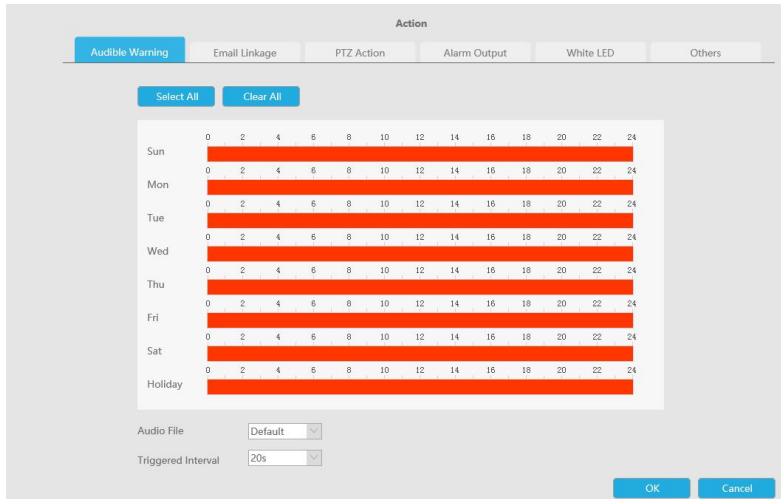
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

 or  to set or clear all time settings.

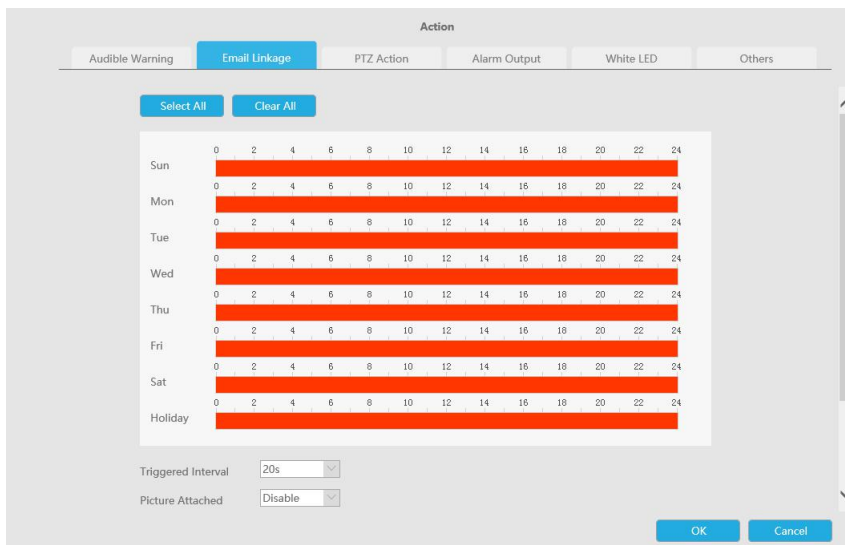
Moreover, you can click time bar to edit the time accurately.

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 triggered.




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

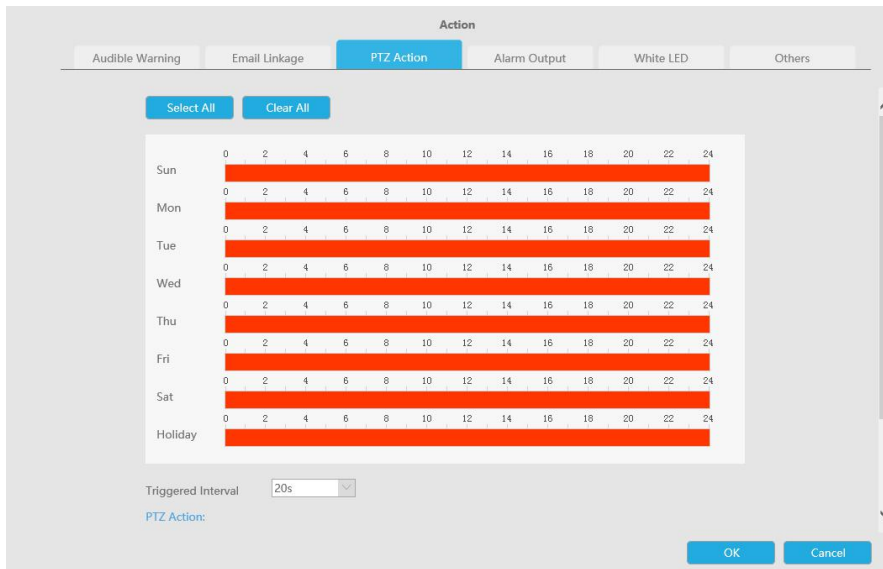
Drag a line on the time table for time setting. It will be more convenient by clicking

 or  to set or clear all time settings.

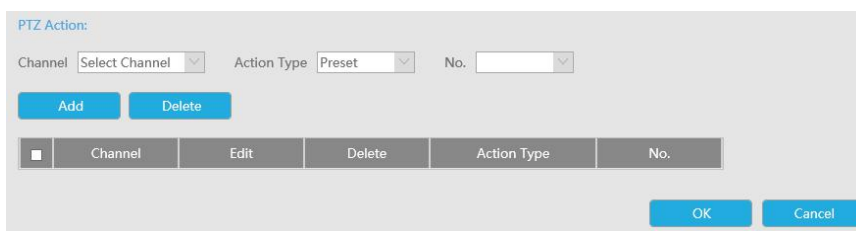
Moreover, you can click time bar to edit the time accurately.

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.



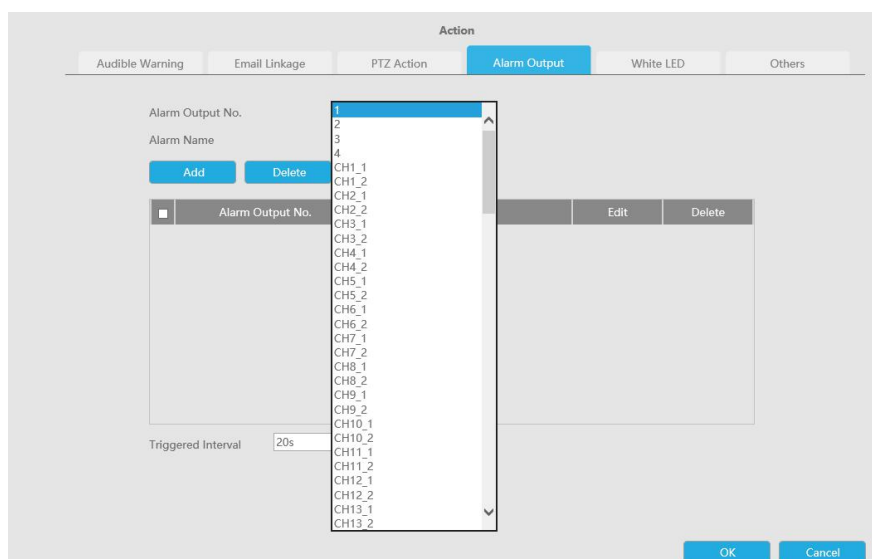
Channel: Select the channel which supports this function.

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

or

Clear All

to set or clear all time settings.

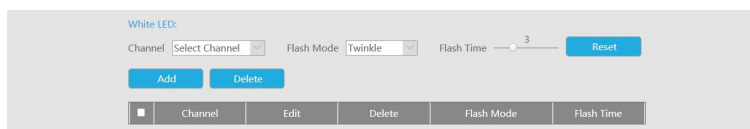
Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

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



And you can add White LED.



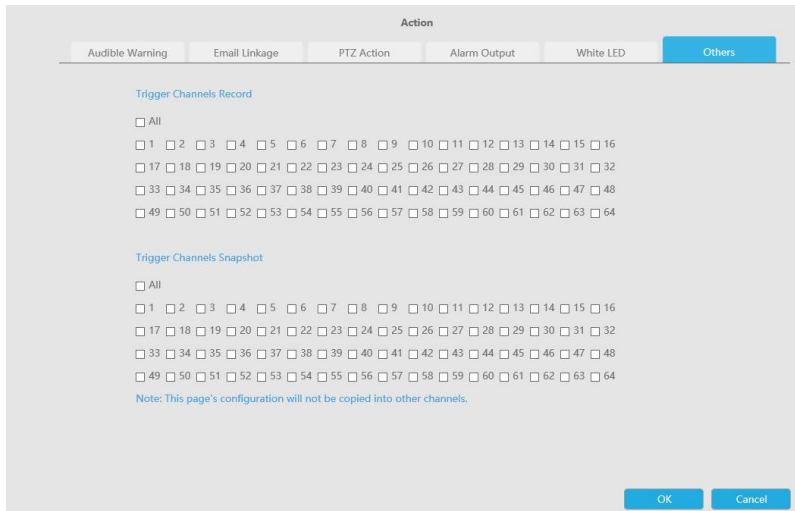
Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

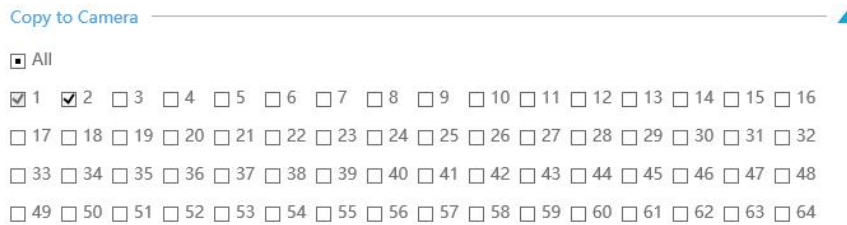
Flash Time: Set the time for White LED flashing. When the Flash Mode is Twinkle, the range of Flash Time is 1~10 and the default value is 3. When the Flash Mode is Always, the range of Flash Time is 1~60 and the default value is 5.

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.



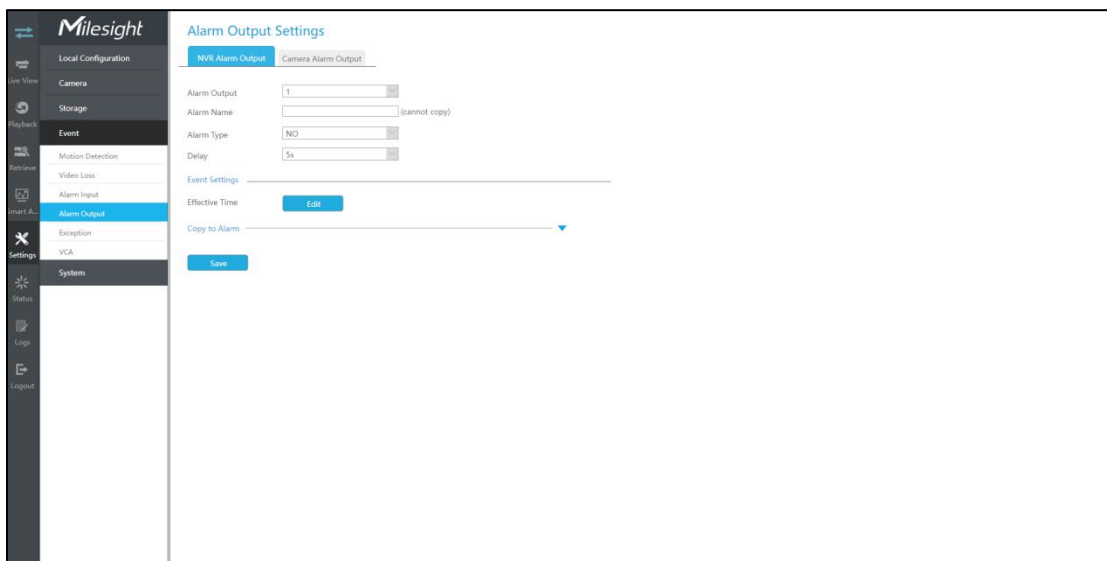
Step 3. Click [Copy to Camera] and to copy the same configuration to other channels.



4.8.4.4 Alarm Output

4.8.4.4.1 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 Settings**

NVR Alarm Output Camera Alarm Output

Alarm Output:

Alarm Name: (cannot copy)

Alarm Type:

Delay:

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

Alarm Type: Select alarm type: NO or NC.

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

Alarm Name: Set a name for the alarm.

Step 2: Set effective time.

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

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

Copy to Alarm

All
 1 2 3 4

4.8.4.4.2 Camera Alarm Output

Milesight NVRs support the upgrade of Milesight Cameras.

Alarm Output Settings

NVR Alarm Output | **Camera Alarm Output**

Channel: 1
 Alarm Output: 1
 Alarm Name: (cannot copy)
 Alarm Type: NC
 Delay: 5s

Event Settings

Effective Time:
 Copy to Camera:

Step 1. Set Alarm Output Channel, Alarm Type, Delay and Alarm Name.

Alarm Output Settings

NVR Alarm Output | **Camera Alarm Output**

Channel: 2
 Alarm Output: 1
 Alarm Name: (cannot copy)
 Alarm Type: NC
 Delay: 5s

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.

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

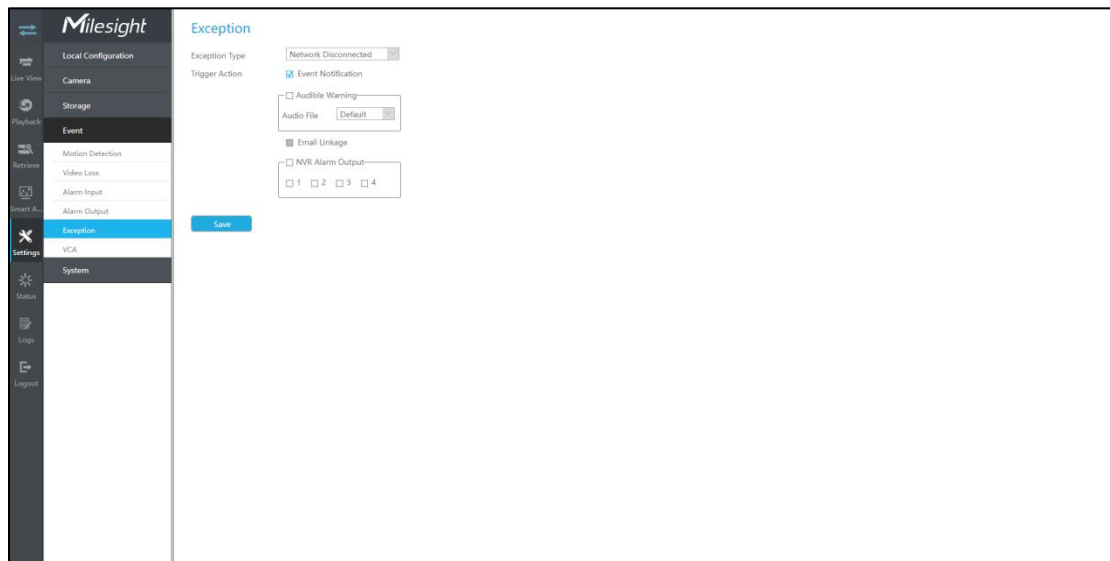
Step3. Click [Copy to Alarm] and to copy the same configuration to other alarm channels.

Copy to Camera

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

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 Uninitialized: 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 get a notification in Live View if an alarm is triggered.

Audible Warning: NVR will trigger an audible warning. You can select the audio file as needed for audible warning. The default is 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 Notification

Audible Warning

Audio File

Email Linkage

NVR Alarm Output

1 2 3 4

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.

The screenshot displays the Milesight VCA configuration interface. The left sidebar shows the navigation menu with 'VCA' selected. The main content area is titled 'VCA' and includes tabs for 'Region Entrance', 'Region Editing', 'Advanced Motion Det...', 'Tamper Detection', 'Line Crossing', 'Loitering', 'Human Detection', and 'Object Left/Removed'. The 'Region Entrance' tab is active, showing the following settings:

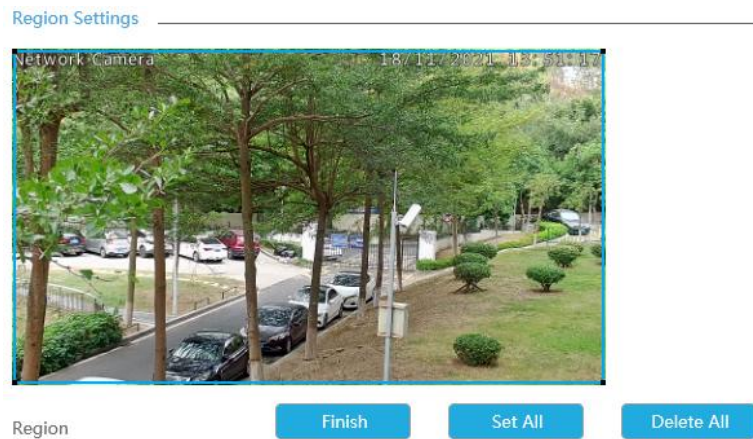
- Channel Event:** Channel: 4, Region Entrance:
- Region Settings:** A video preview window shows a person walking through a doorway.
- Region:**
- Object Size Limits:**
 - Minimum Size(1x1-320x240): x
 - Maximum Size(1x1-320x240): x
- Event Settings:**
 - Sensitivity:
 - Effective Time:
 - Action:
-

Step 2. Enable Region Entrance.

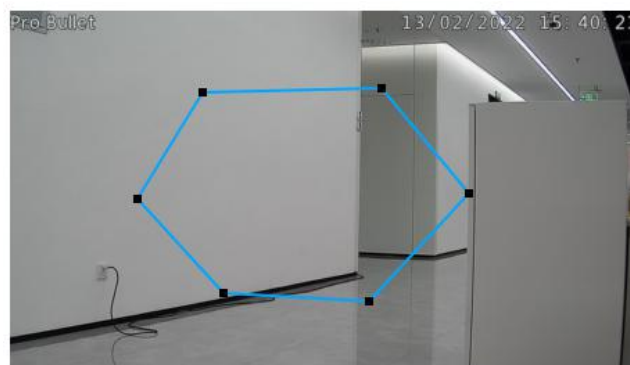
Region Entrance

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 edit the area by clicking button. And you can set or clear all set region by directly clicking and .



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

**Step 4. Set the Object Size Limits.**

You can edit Minimum Size and Maximum Size by clicking button.

Minimum Size(1x1~320x240) x

Maximum Size(1x1~320x240) x

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.

Step 5. Set Sensitivity to trigger event.

Sensitivity

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-CXXX-XXC, which supports the human/vehicle detection object.

Step 7. Set Effective Time of region entrance by clicking**Edit**

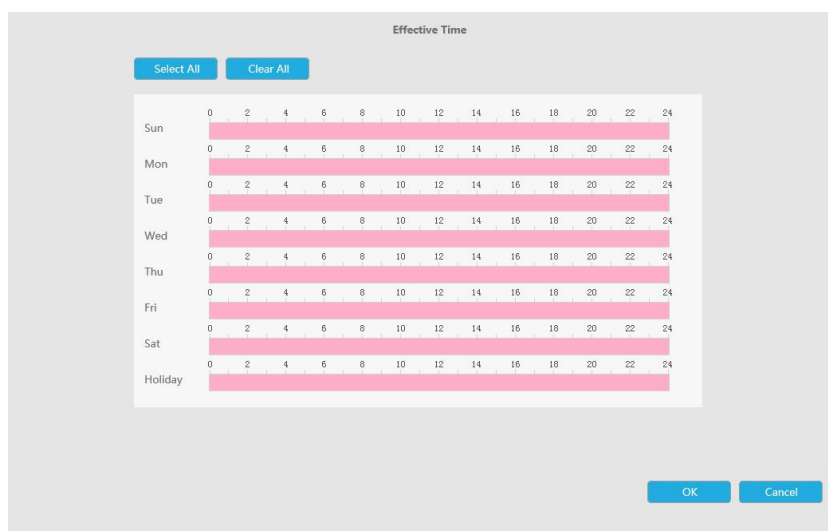
NVR receives the alarm when effective time has been set. It will be more convenient by clicking

Select All

or

Clear All

to set or clear all time settings.

**Step 8. Set Action for region entrance alarm by clicking****Edit**

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

Drag a line on the time table for time setting. It will be more convenient by clicking


Select All

or

Clear All

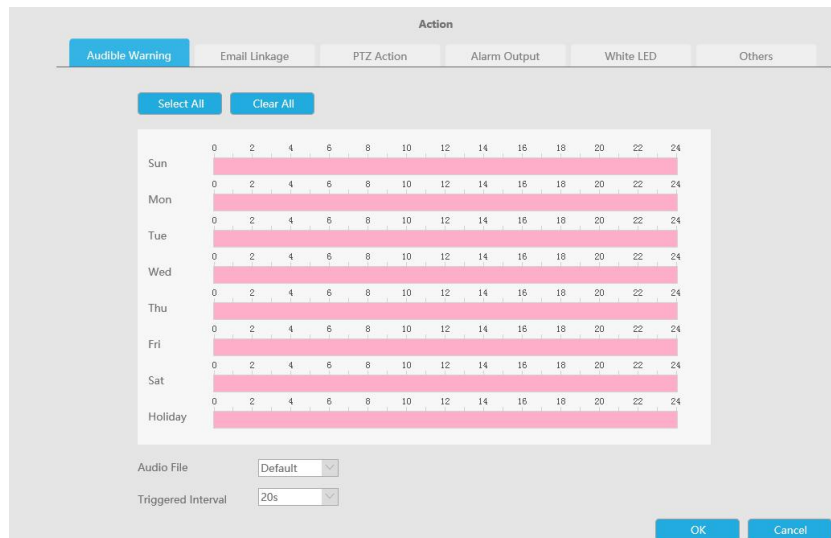
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

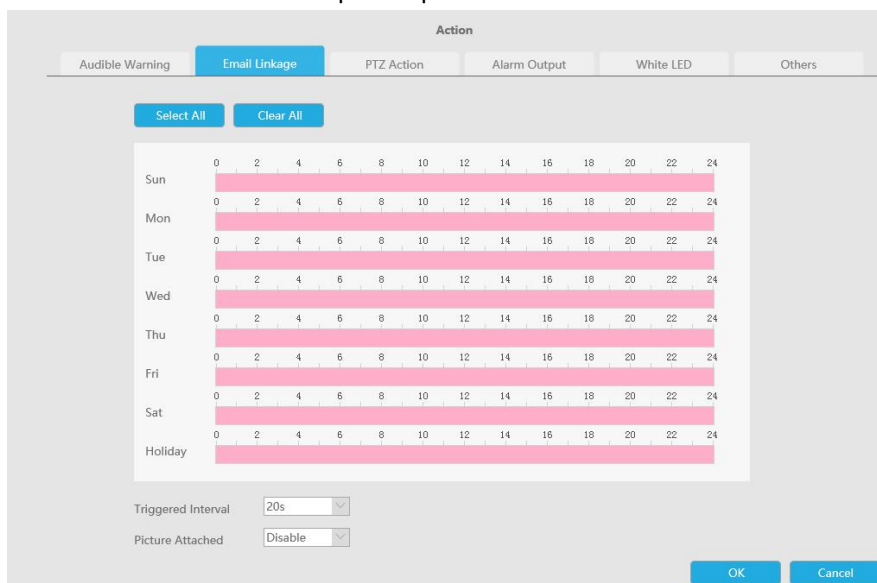
 or  to set or clear all time settings.

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**.

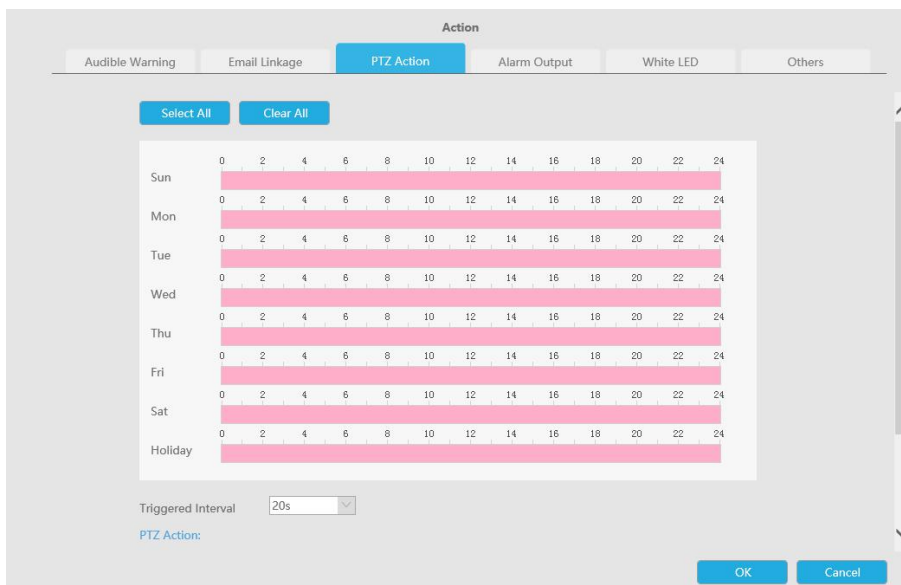
Drag a line on the time table for time setting. It will be more convenient by clicking

 or  to set or clear all time settings.

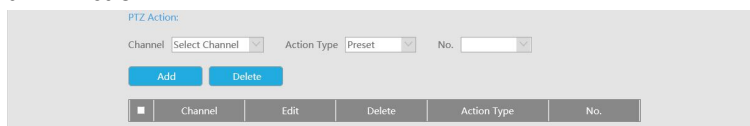
Moreover, you can click time bar to edit the time accurately.

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.



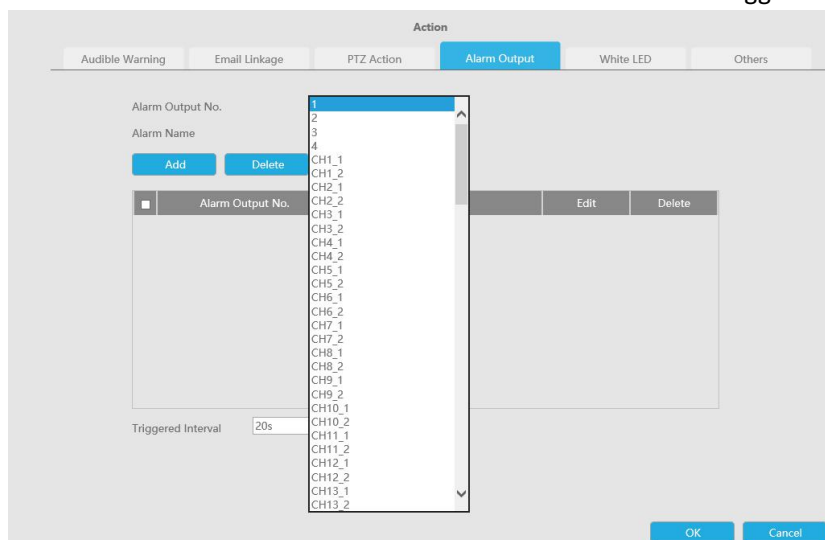
Channel: Select the channel which supports this function.

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.

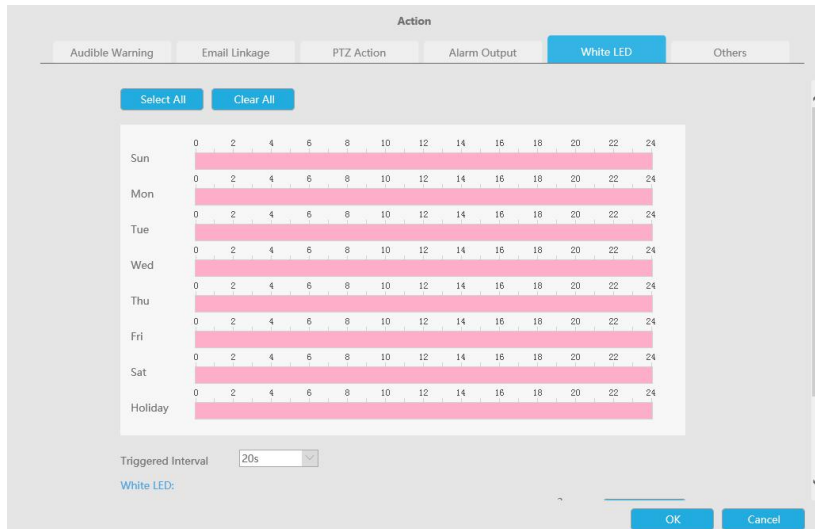
Drag a line on the time table for time setting. It will be more convenient by clicking

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

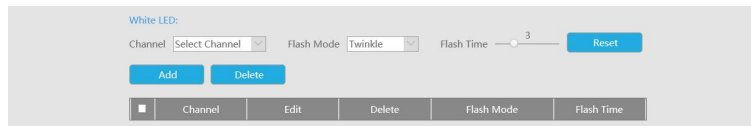
Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

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



And you can add White LED.

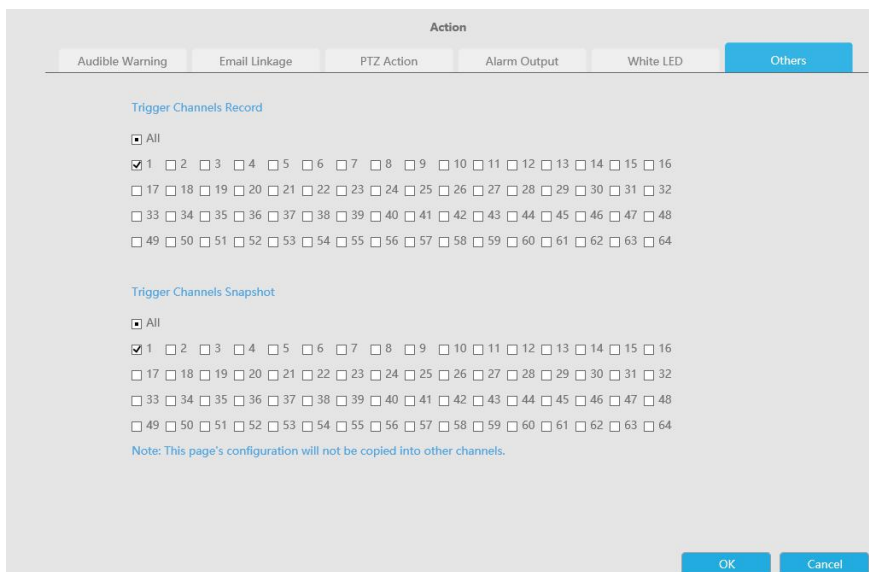


Channel: Select the channel which supports this function.

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.



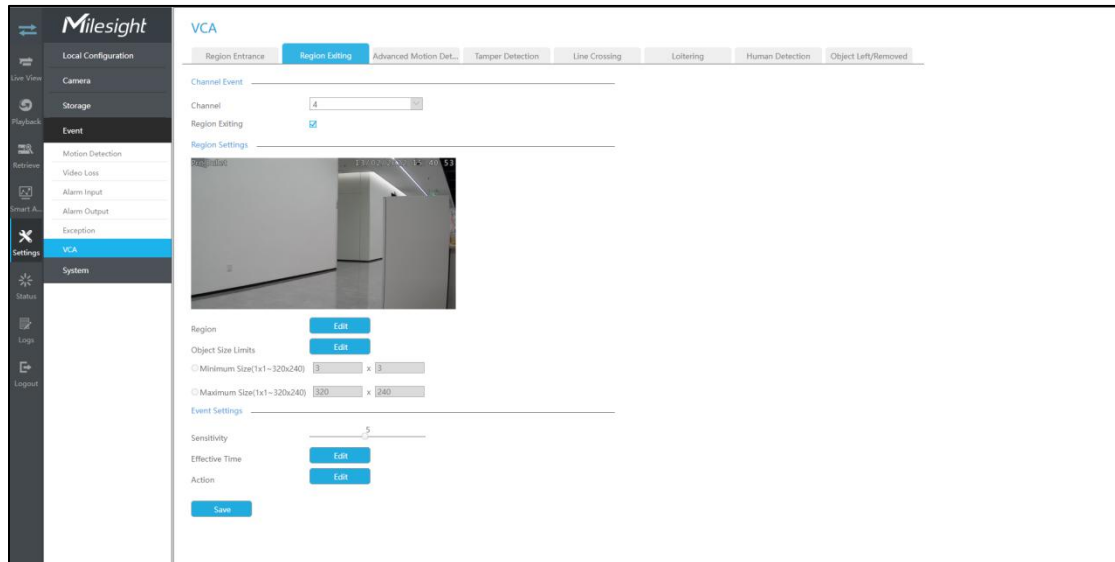
Note:

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

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 edit the area by clicking [Edit](#) button. And you can

set or clear all set region by directly clicking

[Set All](#)

and

[Delete All](#)

Region Settings



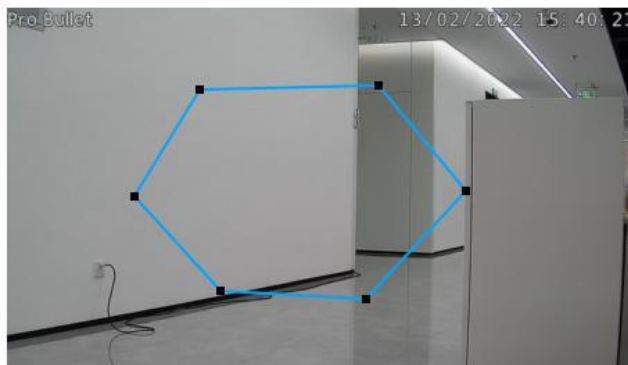
Region

[Finish](#)

[Set All](#)

[Delete 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 the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking button.

Minimum Size(1x1~320x240) x

Maximum Size(1x1~320x240) x

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.

Step 5. Set Sensitivity to trigger event.



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

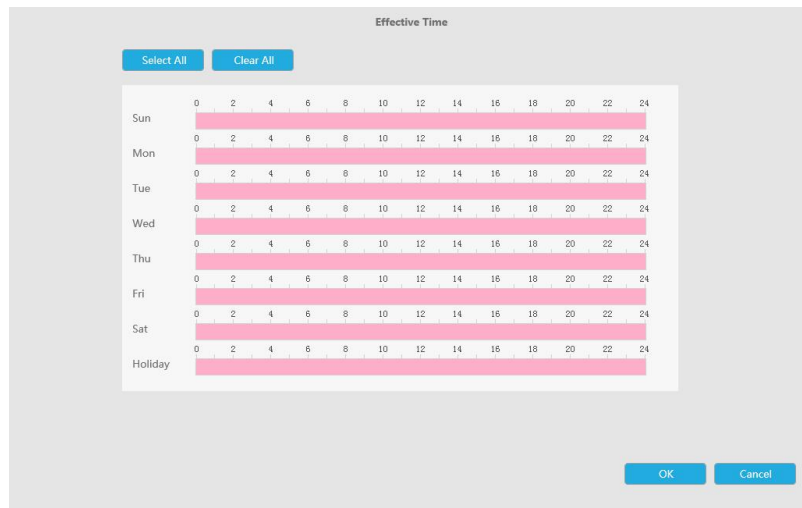
Note:

- 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-CXXX-XXC, which supports the human/vehicle detection object.

Step 7. 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 to set or clear all time settings.




Step 8. Set Action for region exiting alarm by clicking  .

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

Drag a line on the time table for time setting. It will be more convenient by clicking

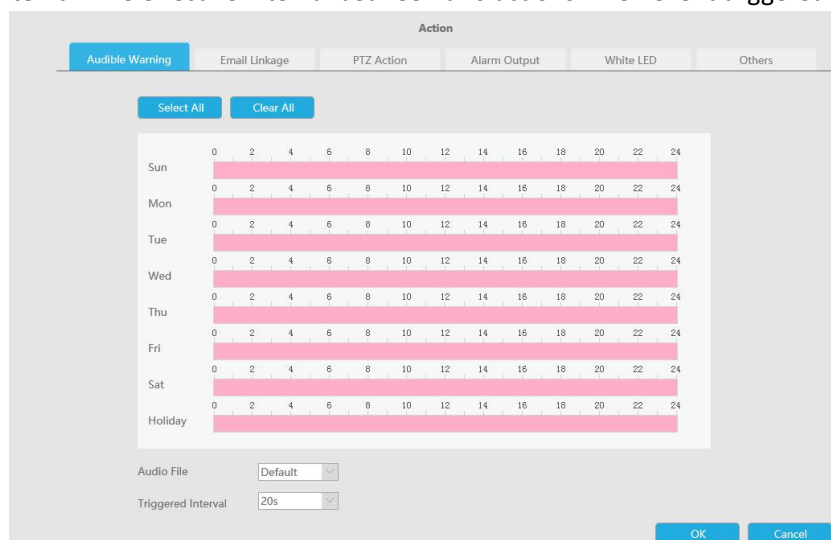
 or  to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

 or  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.

The screenshot shows the 'Action' configuration window with the 'Email Linkage' tab selected. At the top, there are tabs for 'Audible Warning', 'Email Linkage', 'PTZ Action', 'Alarm Output', 'White LED', and 'Others'. Below the tabs are 'Select All' and 'Clear All' buttons. The main area is a time table with rows for Sun, Mon, Tue, Wed, Thu, Fri, Sat, and Holiday. Each row has a horizontal bar representing the 24-hour period, with tick marks every 2 hours. Below the table, there are two dropdown menus: 'Triggered Interval' set to '20s' and 'Picture Attached' set to 'Disable'. At the bottom right, there are 'OK' and 'Cancel' buttons.

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.

The screenshot shows the 'Action' configuration window with the 'PTZ Action' tab selected. The layout is similar to the previous screenshot, but the 'Email Linkage' tab is not active. The 'Triggered Interval' dropdown is still set to '20s'. The 'Picture Attached' dropdown is not visible in this view. The 'OK' and 'Cancel' buttons are at the bottom right.

And you can add PTZ Action.

The screenshot shows the 'PTZ Actions' configuration window. It has a header 'PTZ Actions'. Below it, there are three fields: 'Channel' with a dropdown menu, 'Action Type' with a dropdown menu set to 'Preset', and 'No.' with a text input field. Below these fields are 'Add' and 'Delete' buttons. At the bottom, there is a table with columns: Channel, Edit, Delete, Action Type, and 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.

And you can add White LED.

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.

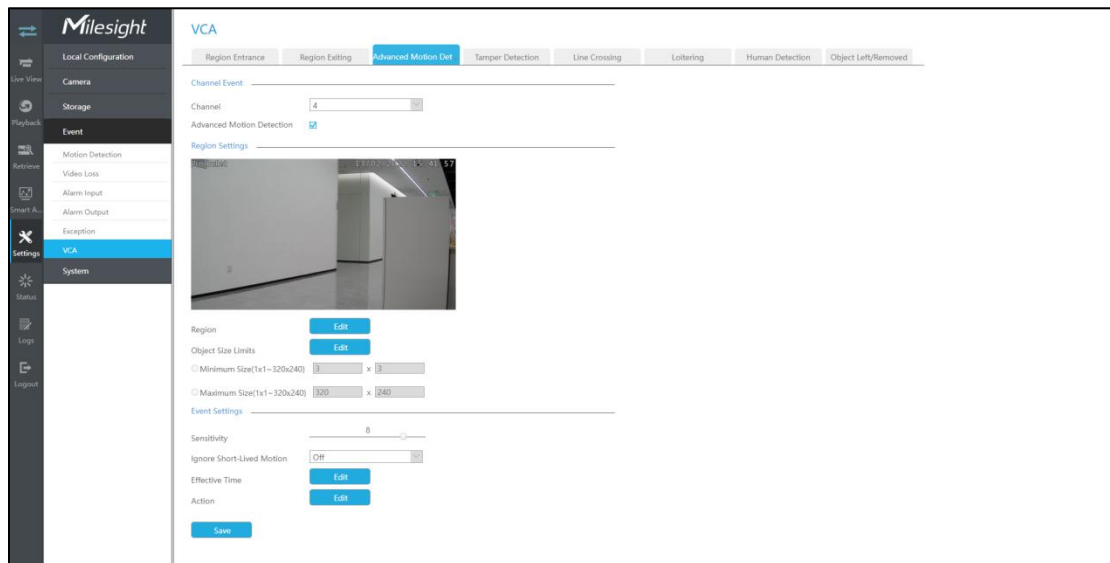
Note:

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

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.



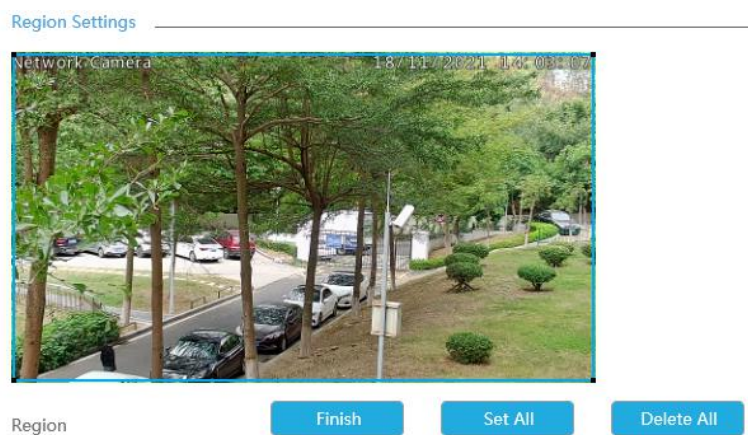
Step 2. Enable Advanced Motion Detection.

Advanced Motion Detection

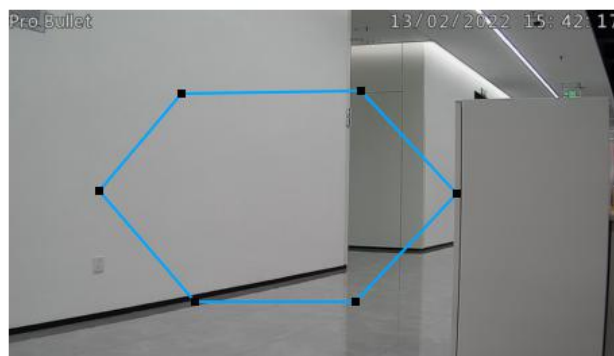
Step 3. Set advanced motion detection region.

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 edit the area by clicking button. And you can


set or clear all set region by directly clicking and .



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



Step 4. Set the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking  button.

Minimum Size(1x1~320x240) x


Maximum Size(1x1~320x240) x

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.

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.

Sensitivity 

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 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

Note:

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

Step 8. 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

 or  to set or clear all time settings.



Step 9. Set Action for advanced motion detection alarm by clicking

Edit

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

Drag a line on the time table for time setting. It will be more convenient by clicking


Select All

or

Clear All

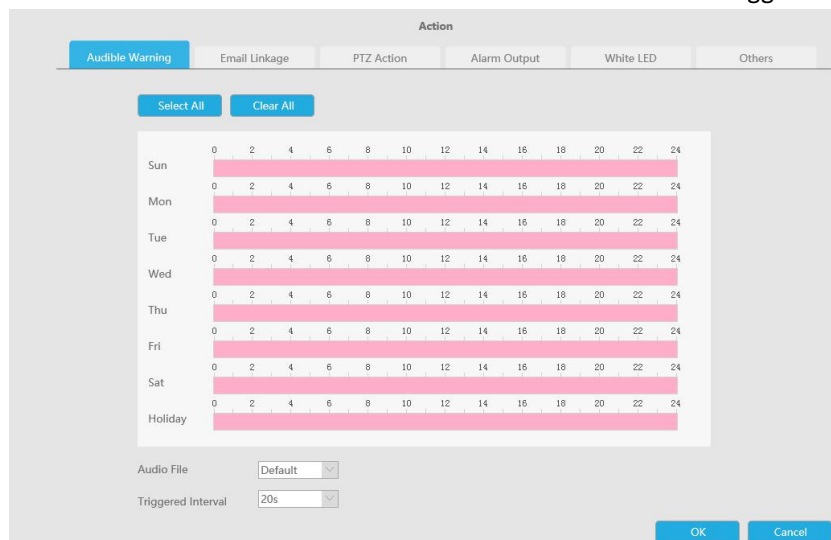
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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 captured picture attached.

The screenshot shows the 'Action' configuration window with the 'Email Linkage' tab selected. At the top, there are tabs for 'Audible Warning', 'Email Linkage', 'PTZ Action', 'Alarm Output', 'White LED', and 'Others'. Below the tabs are 'Select All' and 'Clear All' buttons. The main area is a time table with rows for Sun, Mon, Tue, Wed, Thu, Fri, Sat, and Holiday. Each row has a horizontal bar representing the 24-hour period, with tick marks every 2 hours. Below the table, there are two dropdown menus: 'Triggered Interval' set to '20s' and 'Picture Attached' set to 'Disable'. At the bottom right are 'OK' and 'Cancel' buttons.

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.

The screenshot shows the 'Action' configuration window with the 'PTZ Action' tab selected. The layout is similar to the previous screenshot, but the 'Email Linkage' tab is not active. Below the time table, there is a 'Triggered Interval' dropdown set to '20s' and a 'PTZ Action:' label. At the bottom right are 'OK' and 'Cancel' buttons.

And you can add PTZ Action.

The screenshot shows the 'PTZ Actions' configuration window. It has a title 'PTZ Actions' and three input fields: 'Channel' with a dropdown menu, 'Action Type' with a dropdown menu set to 'Preset', and 'No.' with a text input field. Below these fields are 'Add' and 'Delete' buttons. At the bottom, there is a table with columns for 'Channel', 'Edit', 'Delete', 'Action Type', and '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.

The screenshot shows the 'Action' configuration window with the 'Alarm Output' tab selected. It features a list of 'Alarm Output No.' (1-4) and 'Alarm Name' (CH1_1 to CH13_2). There are 'Add' and 'Delete' buttons for the list. A 'Triggered Interval' field is set to '20s'. 'OK' and 'Cancel' buttons are at the bottom right.

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.

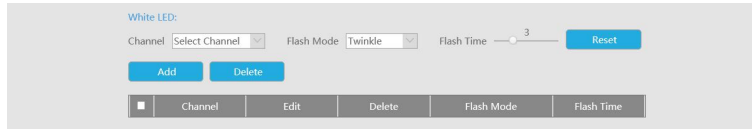
Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

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

The screenshot shows the 'Action' configuration window with the 'White LED' tab selected. It features a time table with days of the week (Sun to Sat) and a 'Holiday' row. Each day has a horizontal bar representing the time range from 0 to 24 hours. There are 'Select All' and 'Clear All' buttons at the top. A 'Triggered Interval' field is set to '20s'. 'OK' and 'Cancel' buttons are at the bottom right.

And you can add White LED.

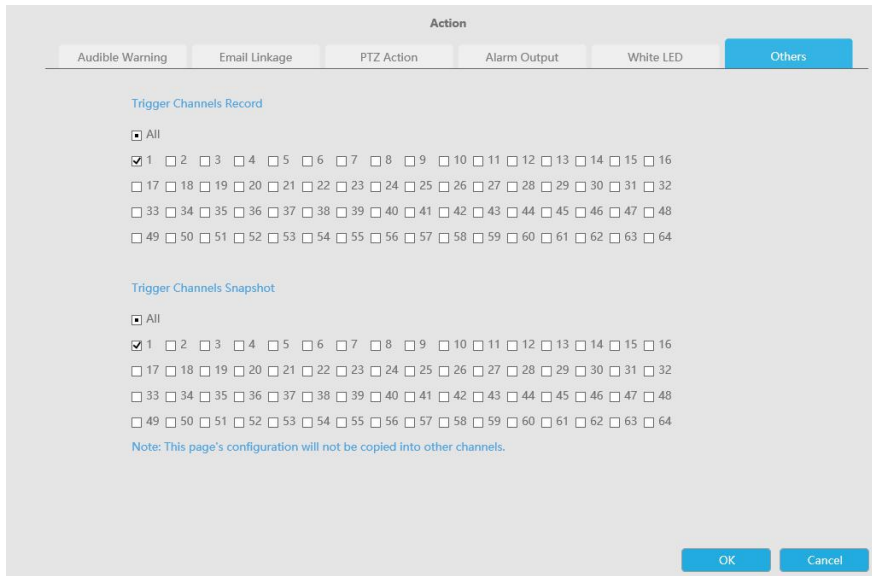


Channel: Select the channel which supports this function.

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.



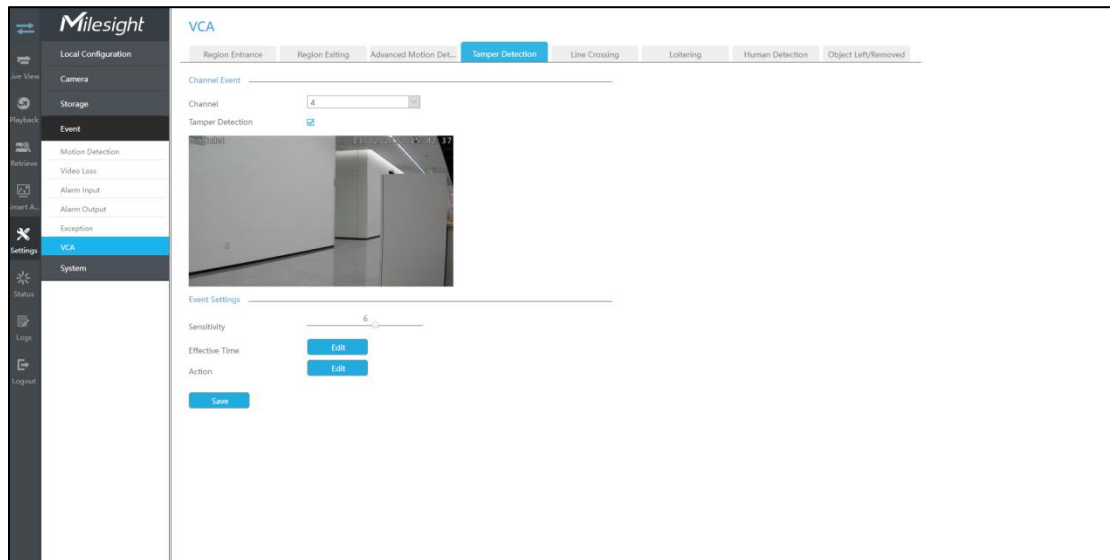
Note:

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

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.

Sensitivity

Edit

Step 4. Set Effective Time of tamper detection by clicking

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

Select All

or

Clear All

to set or clear all time settings.



Edit

Step 5. Set Action for tamper detection alarm by clicking

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

Drag a line on the time table for time setting. It will be more convenient by clicking


Select All

or

Clear All

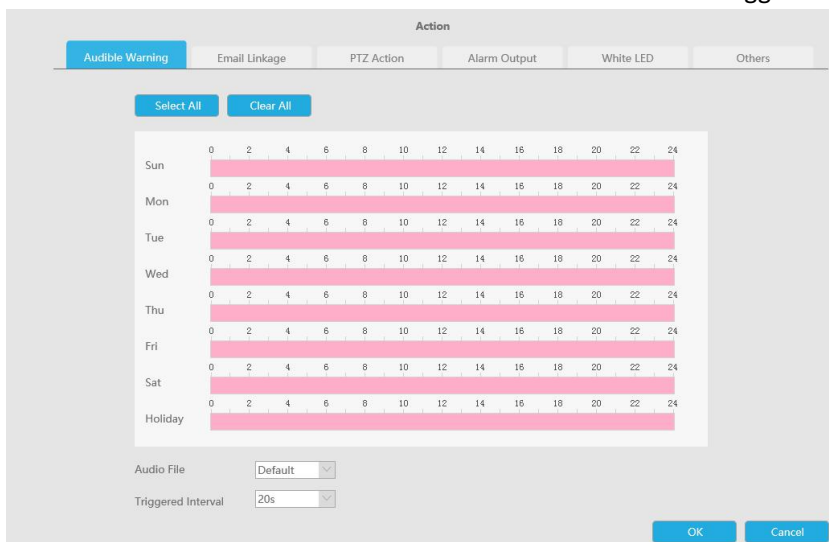
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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



The screenshot shows a configuration window titled "Action" with several tabs: "Audible Warning", "Email Linkage", "PTZ Action", "Alarm Output", "White LED", and "Others". The "Audible Warning" tab is active. At the top of this tab are "Select All" and "Clear All" buttons. Below is a time table with rows for Sun, Mon, Tue, Wed, Thu, Fri, Sat, and Holiday. Each row has a horizontal bar representing a 24-hour period, with numerical markers at 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, and 24. Below the table are two dropdown menus: "Audio File" (set to "Default") and "Triggered Interval" (set to "20s"). At the bottom right are "OK" and "Cancel" buttons.

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

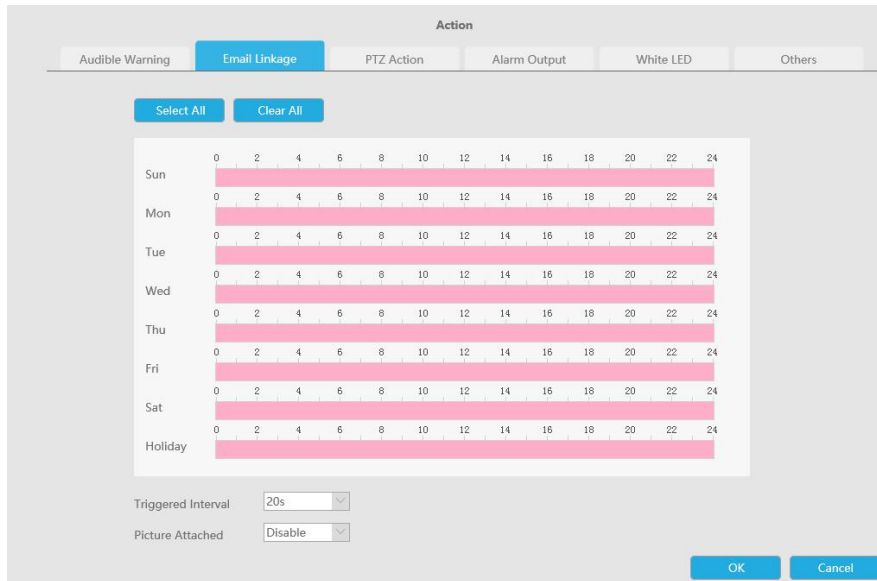
to set or clear all time settings.

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.

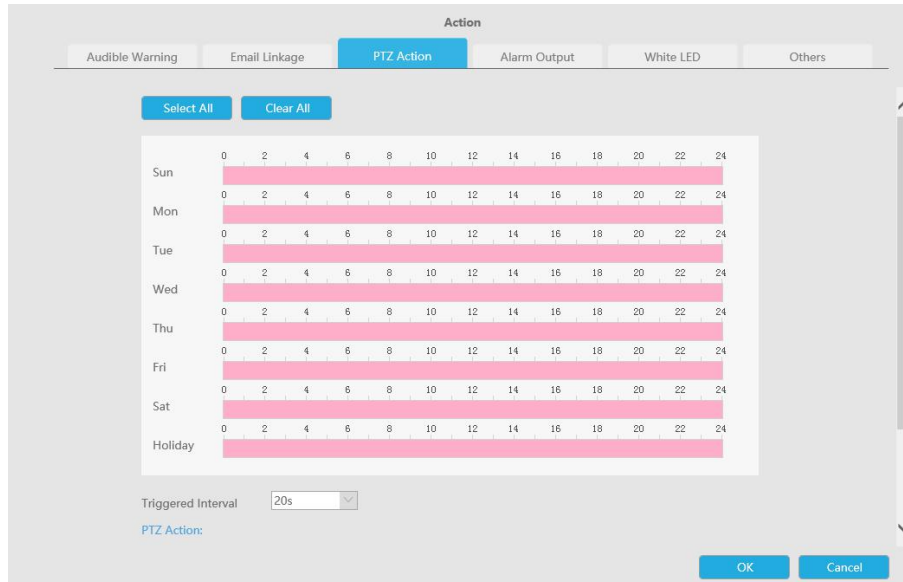


PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol**. Drag a line on the time table for time setting. It will be more convenient by clicking **Select All** or **Clear All** to set or clear all time settings.

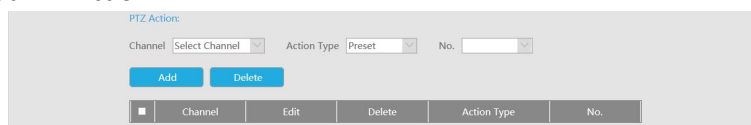
Moreover, you can click time bar to edit the time accurately.

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.



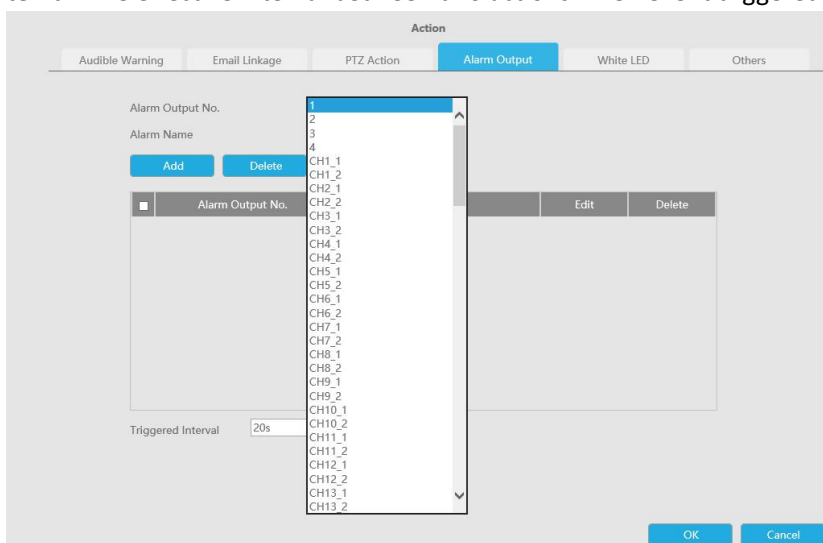
Channel: Select the channel which supports this function.

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.

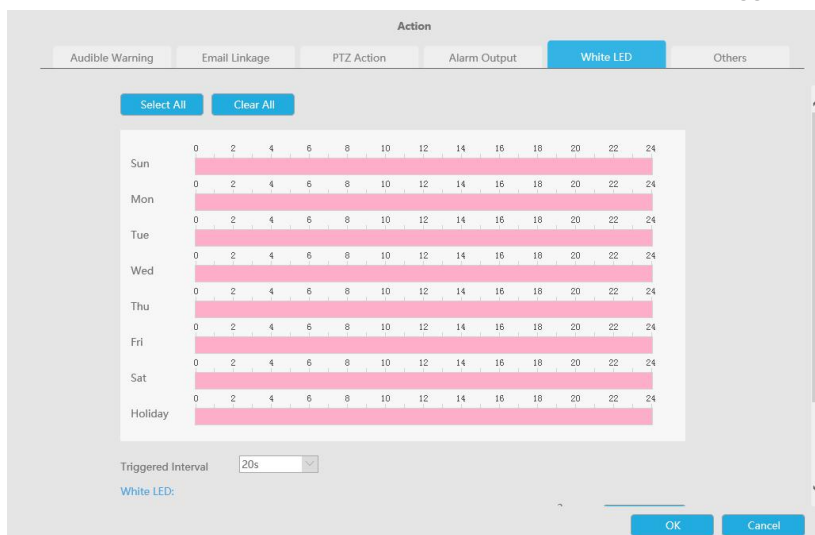
Drag a line on the time table for time setting. It will be more convenient by clicking

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

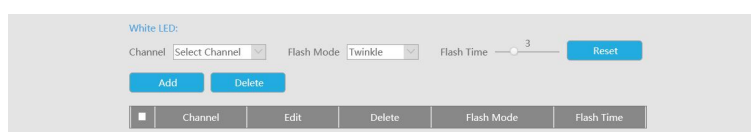
Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

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



And you can add White LED.



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:

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:

Step 1: Select channel and choose detection line number.

Step 2. Enable Line Crossing.

Channel	<input type="text" value="4"/>
Line	<input type="text" value="1"/>
Line Crossing	<input checked="" type="checkbox"/>

Step 3. Define its direction.

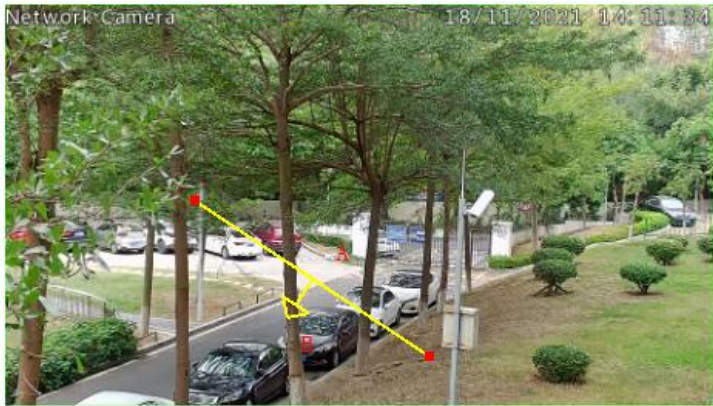
It allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm. "A→B" means when there is any object crossing the line from the "A" side to the "B" side, the alarm will be triggered. "B→A" vice versa. "A ↔ B" means that the alarm will be triggered when objects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

Direction	<input type="text" value="A->B"/>
-----------	--------------------------------------

Step 4. Draw detection lines.

And you can edit the line by clicking button.

Region Settings



Line Edit

Step 5. Set the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking button.

<input type="radio"/> Minimum Size(1x1~320x240)	<input type="text" value="3"/>	x	<input type="text" value="3"/>
<input type="radio"/> Maximum Size(1x1~320x240)	<input type="text" value="320"/>	x	<input type="text" value="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.

Step 6. 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	<input type="text" value="5"/>
-------------	--------------------------------

Step 7. 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-CXXX-XXC, which supports the human/vehicle detection object.

Step 8. Set Effective Time of line crossing by clicking

Edit

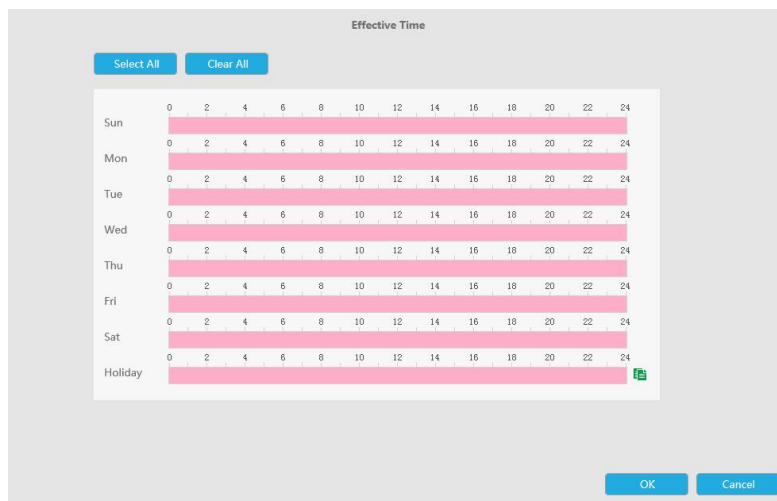
NVR receives the alarm when effective time has been set. It will be more convenient by clicking

Select All

or

Clear All

to set or clear all time settings.



Step 9. Set Action for line crossing alarm by clicking

Edit

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

Drag a line on the time table for time setting. It will be more convenient by clicking


Select All

or

Clear All

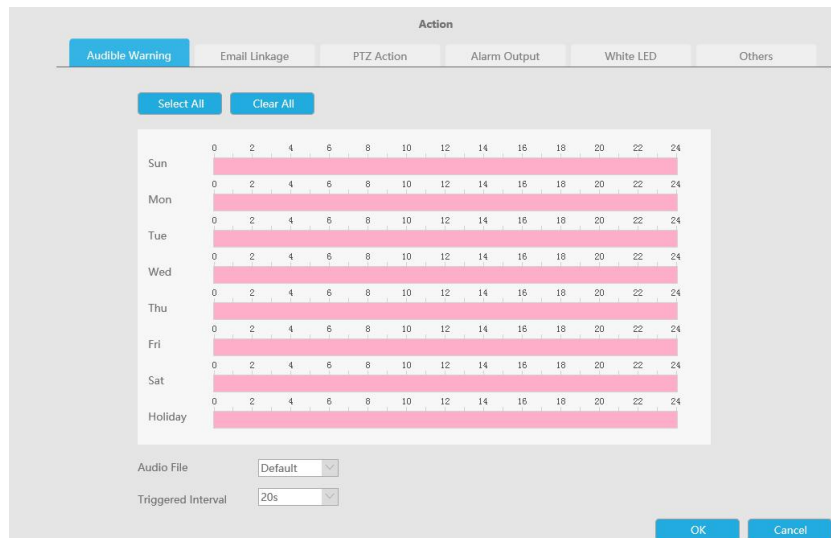
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

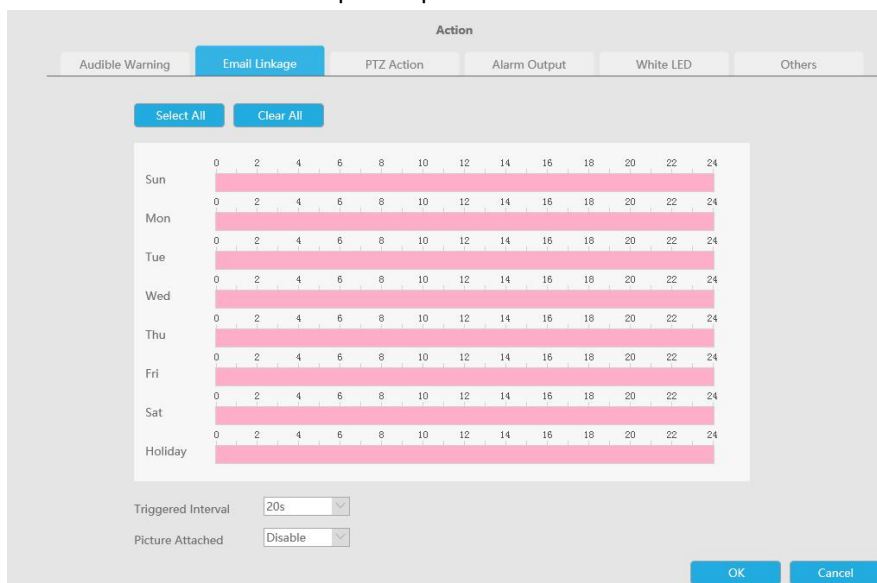
Select All or **Clear All** to set or clear all time settings.

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 captured picture attached.




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

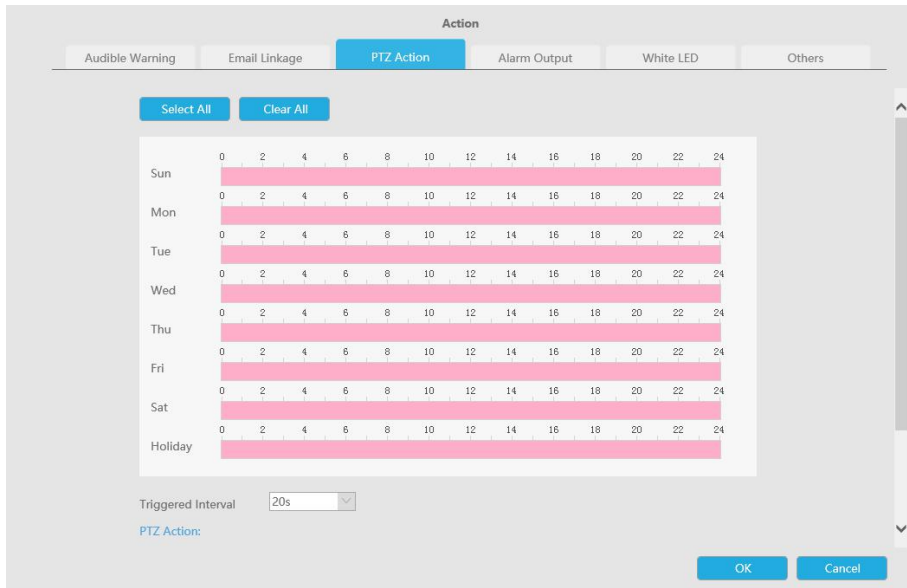
Drag a line on the time table for time setting. It will be more convenient by clicking

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

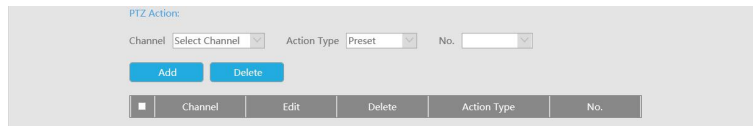
Moreover, you can click time bar to edit the time accurately.

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.



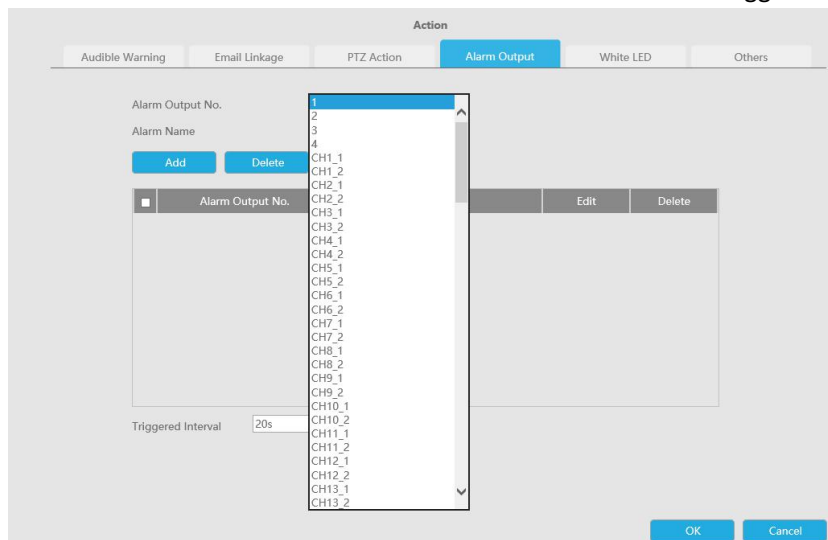
Channel: Select the channel which supports this function.

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.

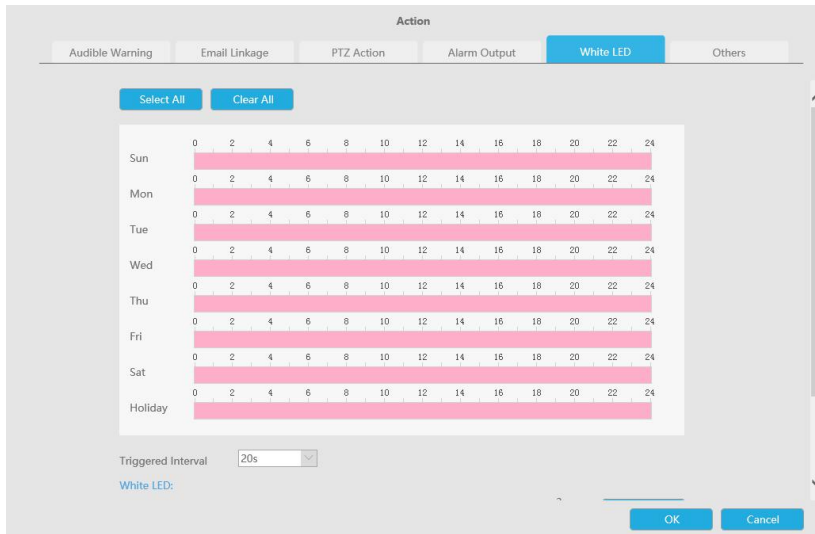
Drag a line on the time table for time setting. It will be more convenient by clicking



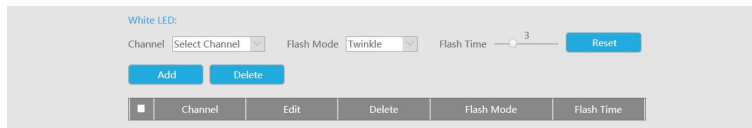
Moreover, you can click time bar to edit the time accurately.

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.

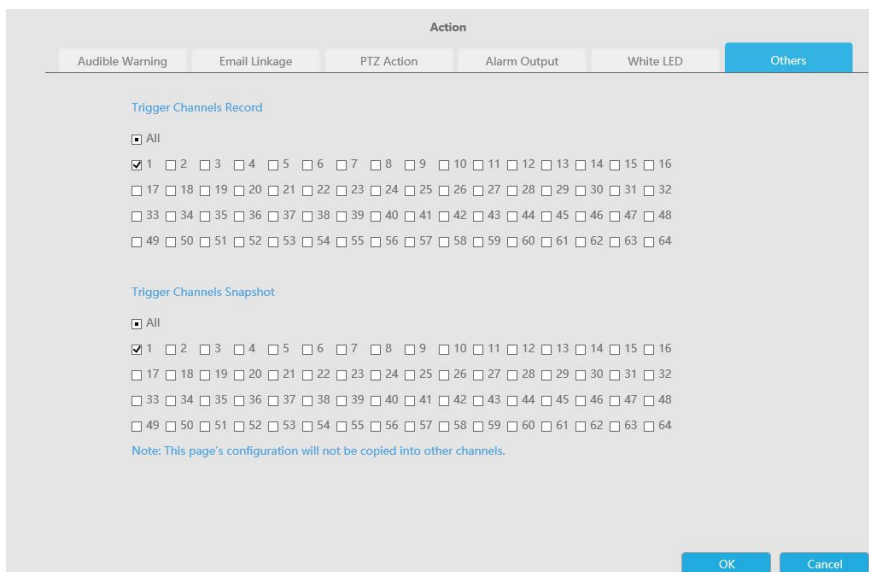


Channel: Select the channel which supports this function.

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.



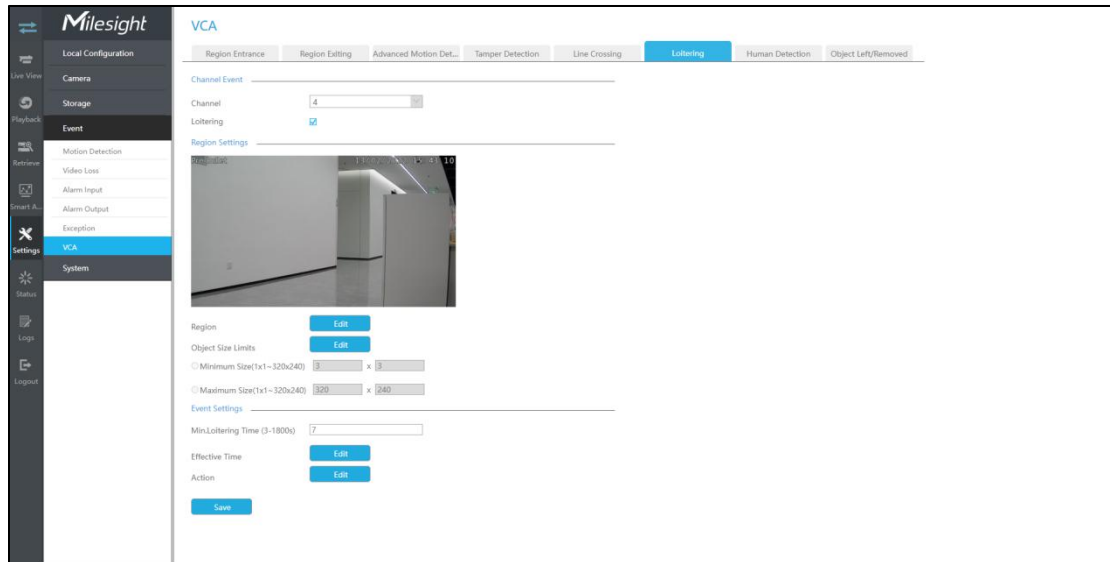
Note:

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

Loitering

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

Step 1. Select channel.



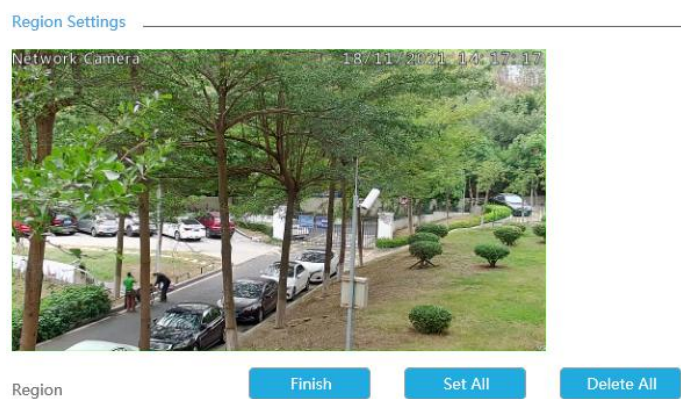
Step 2. Enable Loitering.

Loitering

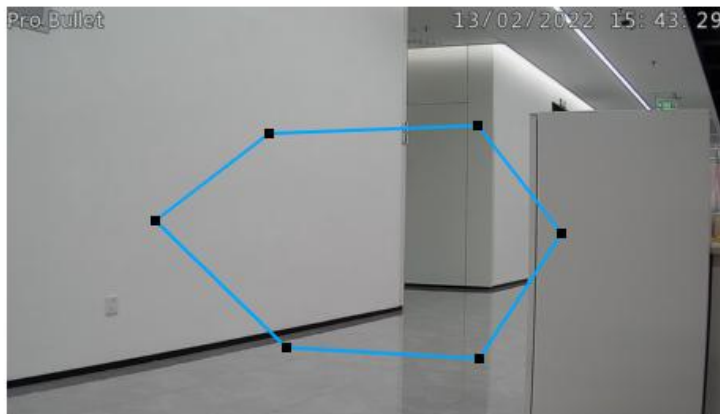
Step 3. Set Loitering detected region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can edit the area by clicking button. And you can

set or clear all set region by directly clicking and .



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



Step 4. Set the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking button.

Minimum Size(1x1~320x240) x

Maximum Size(1x1~320x240) x

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.

Step 5. 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)

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 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)

Step 8. Set Effective Time of loitering by clicking .

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

or to set or clear all time settings.



Step 9. Set Action for loitering alarm by clicking [Edit](#).

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

Drag a line on the time table for time setting. It will be more convenient by clicking

[Select All](#)

or

[Clear All](#)

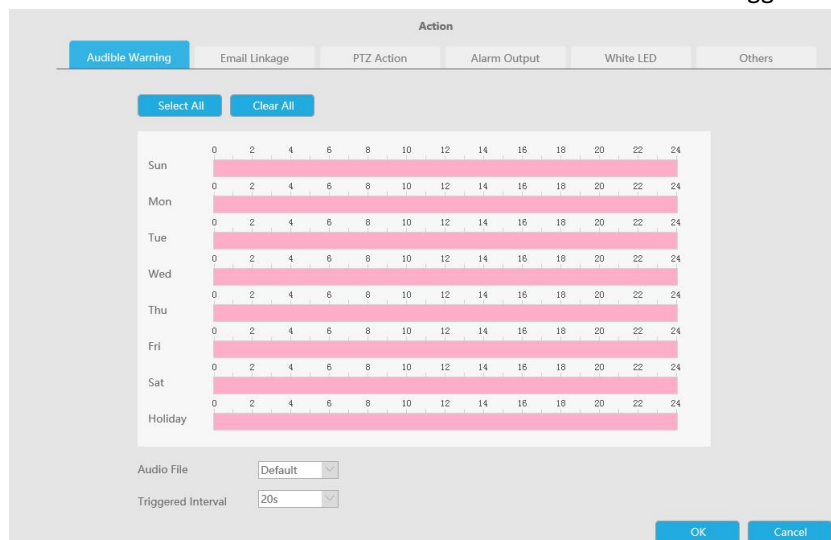
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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 captured picture attached.

The screenshot shows the 'Action' configuration window with the 'Email Linkage' tab selected. At the top, there are tabs for 'Audible Warning', 'Email Linkage', 'PTZ Action', 'Alarm Output', 'White LED', and 'Others'. Below the tabs are 'Select All' and 'Clear All' buttons. The main area is a time table with rows for Sun, Mon, Tue, Wed, Thu, Fri, Sat, and Holiday. Each row has a horizontal bar representing the 24-hour period, with tick marks every 2 hours. Below the table, there are two dropdown menus: 'Triggered Interval' set to '20s' and 'Picture Attached' set to 'Disable'. At the bottom right are 'OK' and 'Cancel' buttons.

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.

The screenshot shows the 'Action' configuration window with the 'PTZ Action' tab selected. The layout is similar to the previous screenshot, but the 'Email Linkage' tab is not active. The 'Triggered Interval' dropdown is still set to '20s'. Below the time table, there is a label 'PTZ Action:' followed by a blank space. The 'OK' and 'Cancel' buttons are at the bottom right.

And you can add PTZ Action.

The screenshot shows the 'PTZ Actions' configuration window. It has a title bar 'PTZ Actions'. Below it are three fields: 'Channel' with a dropdown menu showing 'Select Channel', 'Action Type' with a dropdown menu showing 'Preset', and 'No.' with a text input field. Below these fields are 'Add' and 'Delete' buttons. At the bottom, there is a table with columns: Channel, Edit, Delete, Action Type, and 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.


The screenshot shows the 'Action' configuration window with the 'Alarm Output' tab selected. It includes a list of 'Alarm Output No.' (1-4) and 'Alarm Name' (CH1_1 to CH13_2). There are 'Add' and 'Delete' buttons for the list. A 'Triggered Interval' field is set to '20s'. 'OK' and 'Cancel' buttons are at the bottom right.

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.

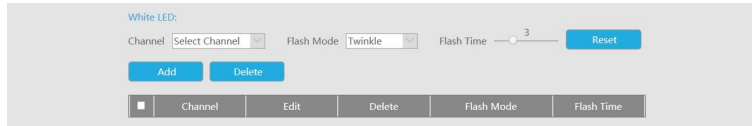
Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

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

The screenshot shows the 'Action' configuration window with the 'White LED' tab selected. It features a time table with days of the week (Sun to Sat) and a 'Holiday' row. Each day has a horizontal bar representing the time interval, with numerical markers from 0 to 24. There are 'Select All' and 'Clear All' buttons at the top. A 'Triggered Interval' field is set to '20s'. 'OK' and 'Cancel' buttons are at the bottom right.

And you can add White LED.

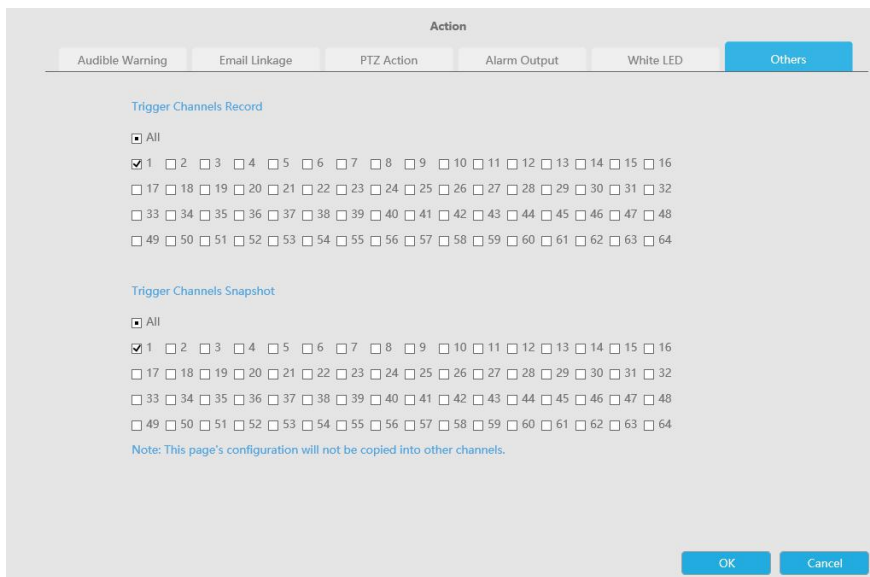


Channel: Select the channel which supports this function.

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.



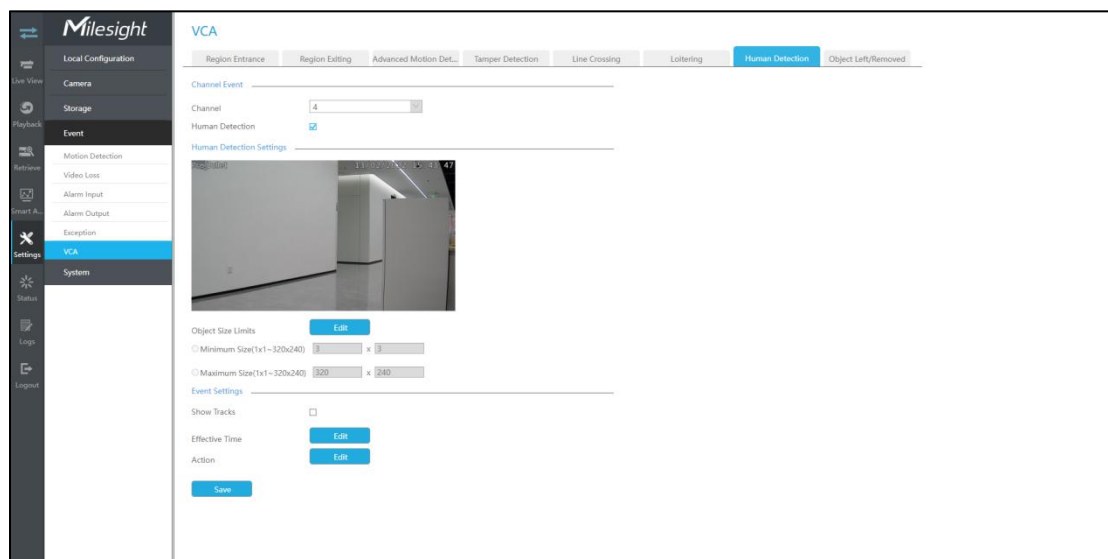
Note:

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

Human Detection

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

Step 1. Select channel.



Step 2. Enable Human Detection.Human Detection **Step 3. Set the Object Size Limits.**You can edit Minimum Size and Maximum Size by clicking button.
 Minimum Size(1x1~320x240) x
 Maximum Size(1x1~320x240) x

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.

Step 4. Enable Show Tracks or not.Show Tracks **Step 5. 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

or

to set or clear all time settings.

Step 6. Set Action for human detection alarm by clicking .


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

Drag a line on the time table for time setting. It will be more convenient by clicking

or

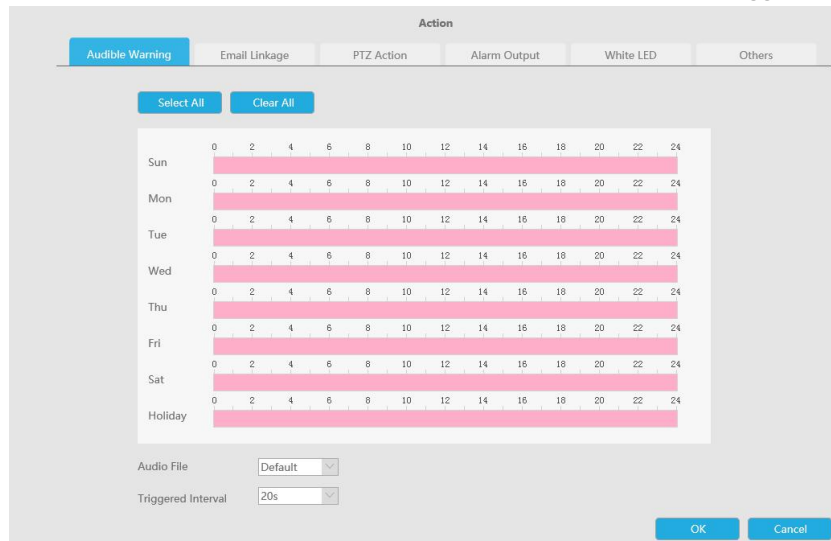
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

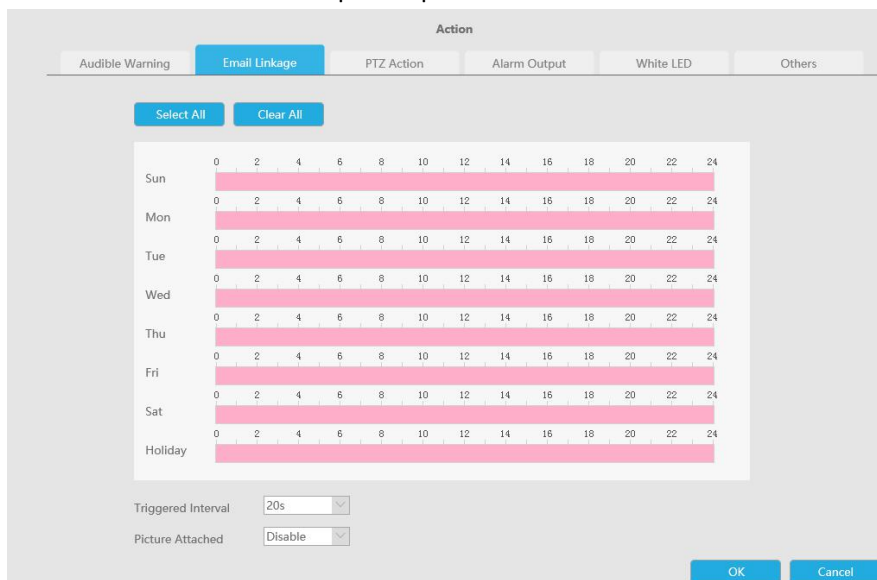
Select All or **Clear All** to set or clear all time settings.

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 captured picture attached.




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

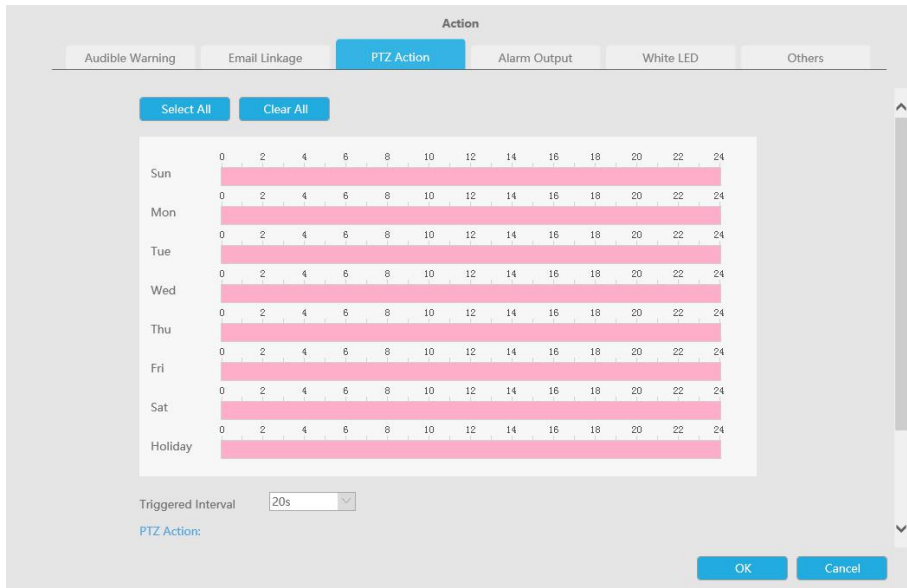
Drag a line on the time table for time setting. It will be more convenient by clicking

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

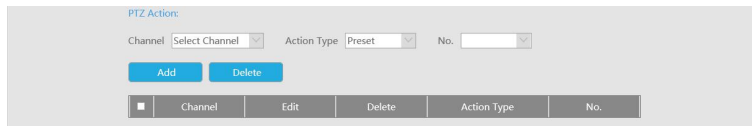
Moreover, you can click time bar to edit the time accurately.

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.



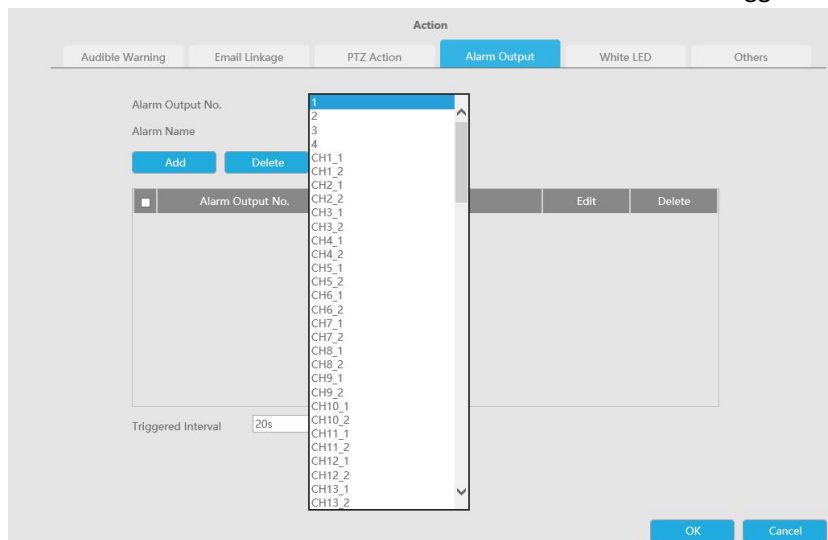
Channel: Select the channel which supports this function.

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.

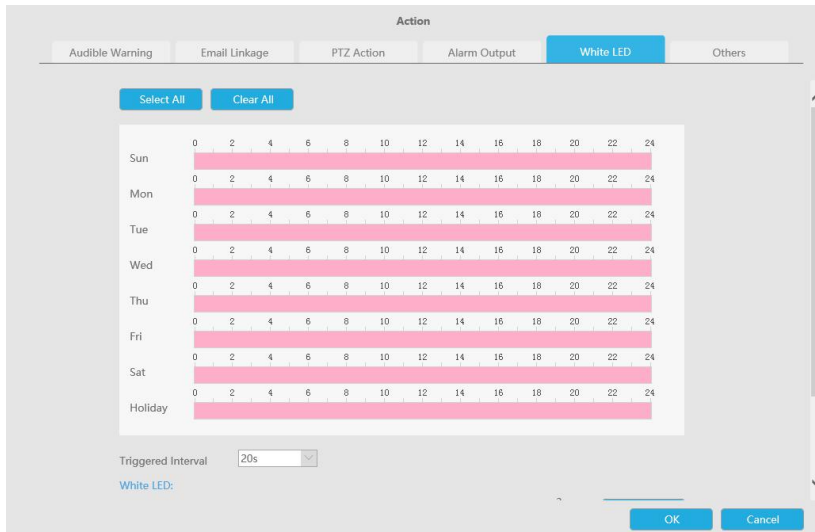
Drag a line on the time table for time setting. It will be more convenient by clicking



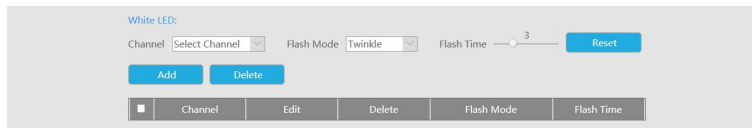
Moreover, you can click time bar to edit the time accurately.

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.

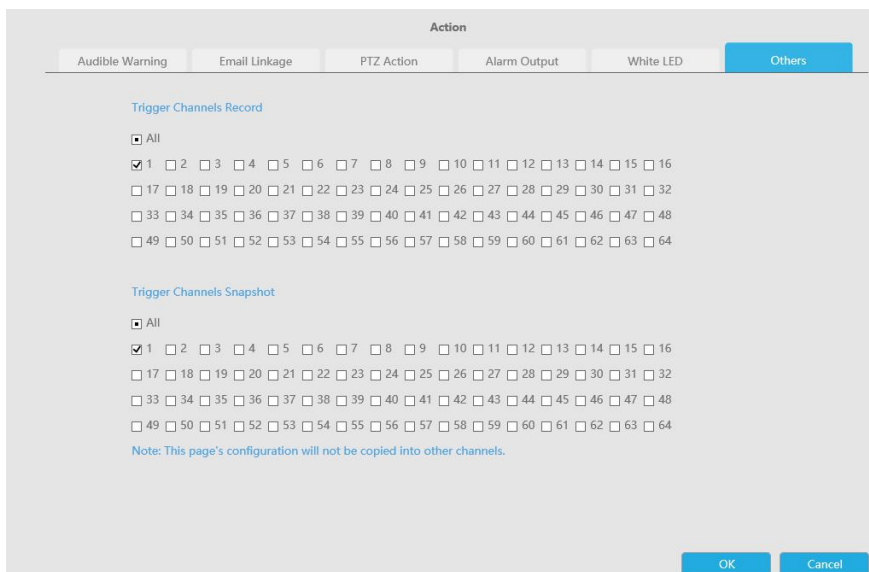


Channel: Select the channel which supports this function.

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:

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

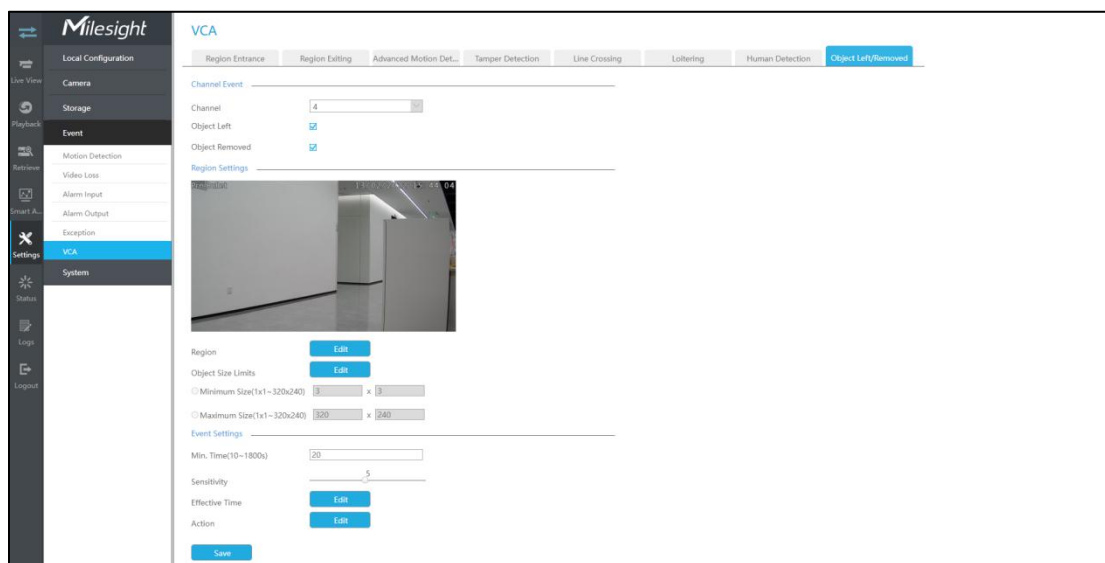
Object Left/Removed

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.

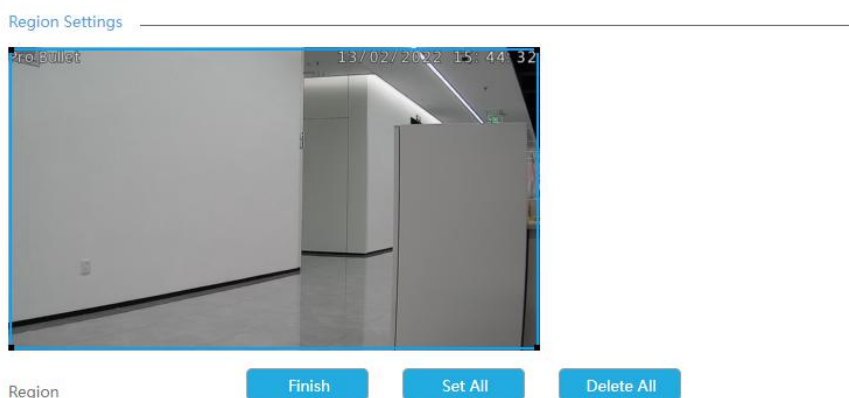
Step 1. Select channel and enable Object Left or Object Removed(Or you can enable both features at the same time).



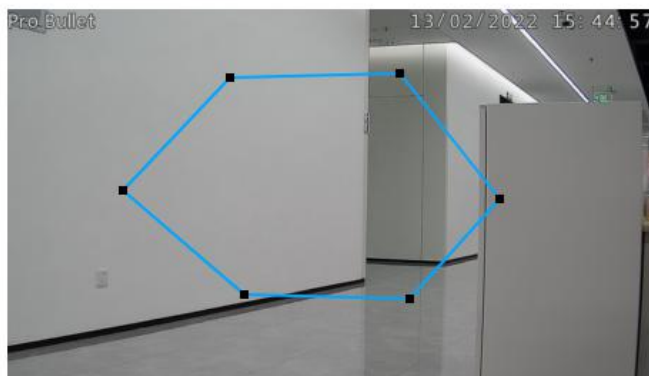
Step 2. Set detection region.

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 edit the area by clicking **Edit** button. And you can

set or clear all set region by directly clicking **Set All** and **Delete 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 the Object Size Limits.

You can edit Minimum Size and Maximum Size by clicking button.

Minimum Size(1x1~320x240) x

Maximum Size(1x1~320x240) x

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.

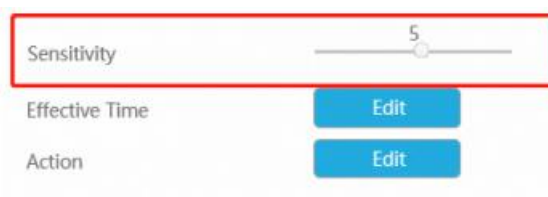
Step 4. Set Min. Time.

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.

Min. Time(10~1800s)

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.



Step 6. 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

or to set or clear all time settings.



Step 7. Set Action for object left/removed alarm by clicking

Edit

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

Drag a line on the time table for time setting. It will be more convenient by clicking


Select All

or

Clear All

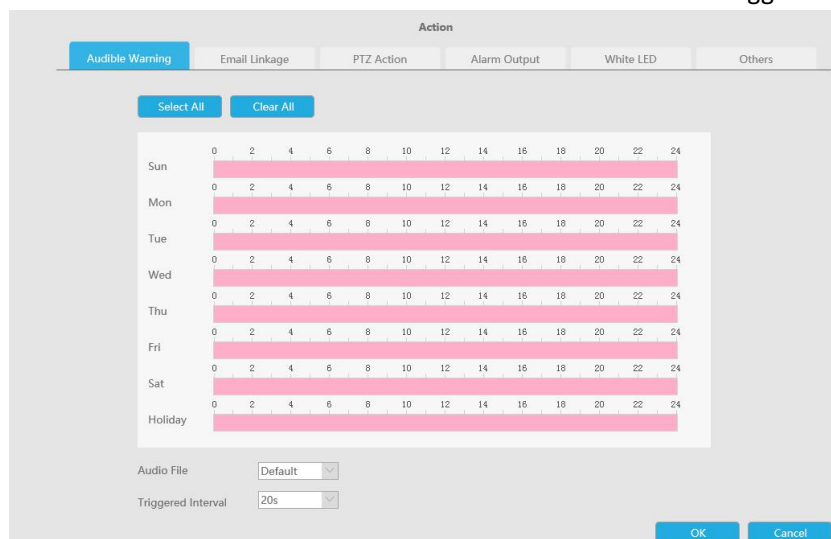
to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click  to copy time setting to other day.

Audio File: Users can select the audio file as needed for audible warning. The default is an audible beep.

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

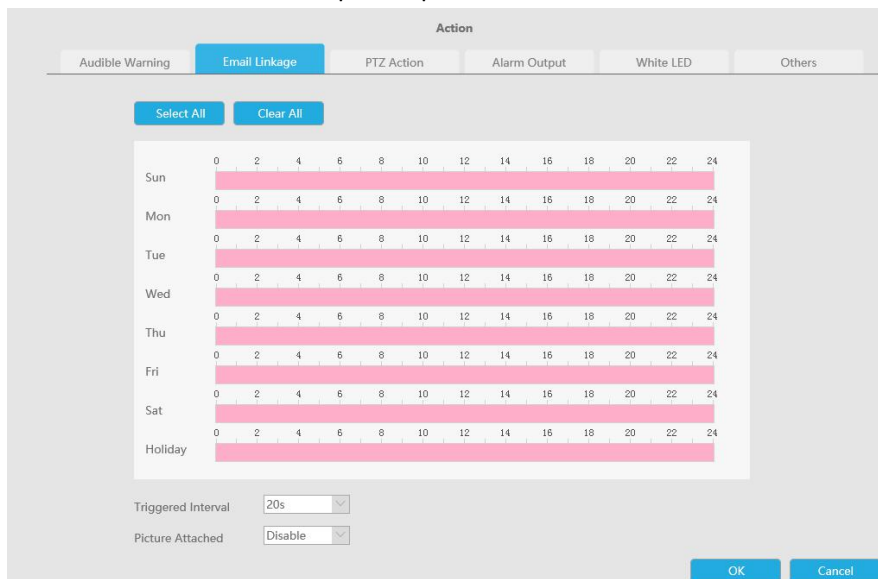
to set or clear all time settings.

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 captured picture attached.



The screenshot shows the 'Action' configuration window with the 'Email Linkage' tab selected. At the top, there are tabs for 'Audible Warning', 'Email Linkage', 'PTZ Action', 'Alarm Output', 'White LED', and 'Others'. Below the tabs are 'Select All' and 'Clear All' buttons. The main area is a 24-hour time table for each day of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) and a 'Holiday' row. Each row has a horizontal bar representing the 24-hour period, with tick marks every 2 hours. Below the table, there are two dropdown menus: 'Triggered Interval' set to '20s' and 'Picture Attached' set to 'Disable'. At the bottom right, there are 'OK' and 'Cancel' buttons.

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

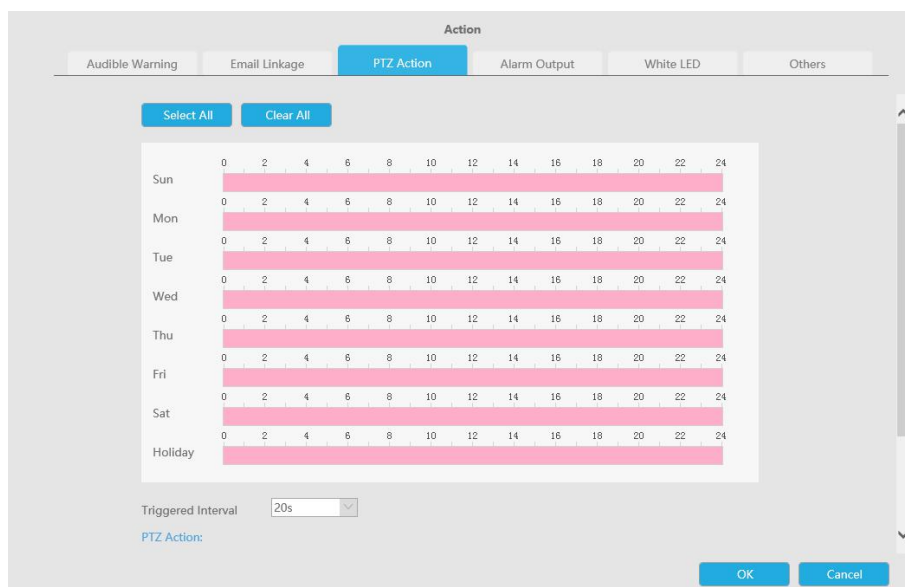
Drag a line on the time table for time setting. It will be more convenient by clicking

 or  to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

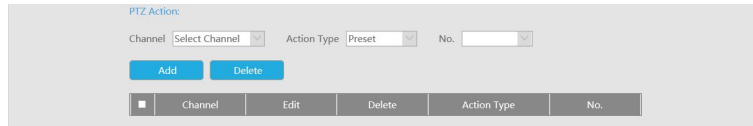
Click  to copy time setting to other day.

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



The screenshot shows the 'Action' configuration window with the 'PTZ Action' tab selected. The layout is similar to the previous screenshot, but the 'Email Linkage' tab is now inactive. The 'Triggered Interval' dropdown is still set to '20s'. Below it, there is a label 'PTZ Action:' followed by a blue link. The 'OK' and 'Cancel' buttons are at the bottom right.

And you can add PTZ Action.



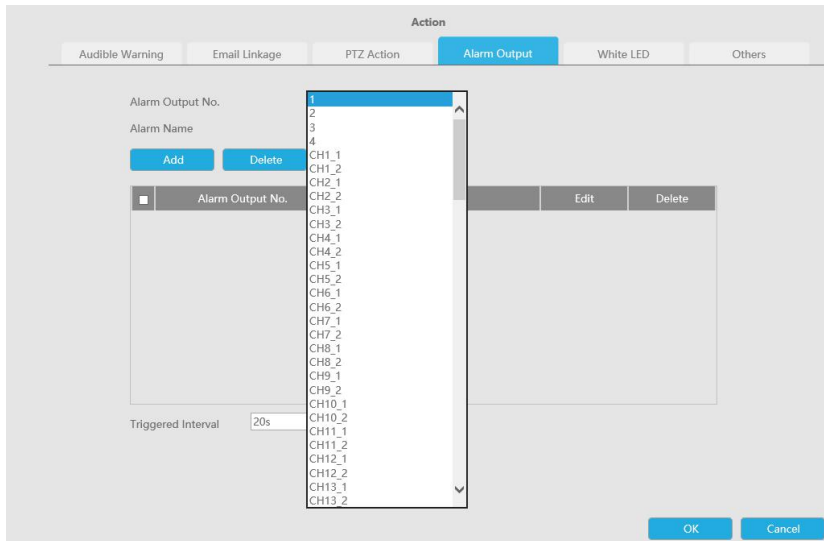
Channel: Select the channel which supports this function.

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.



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

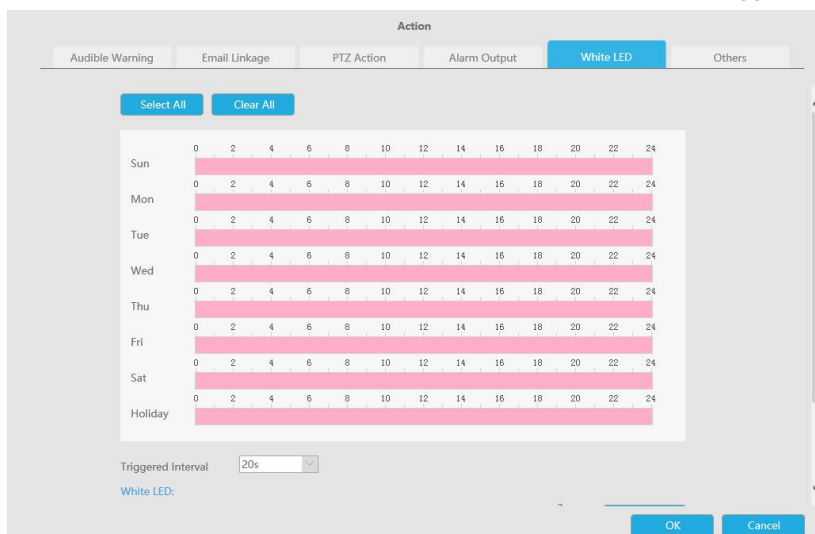
Drag a line on the time table for time setting. It will be more convenient by clicking



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.

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:

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

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.

General Settings

Date & Time | Device

Current System Time

Date 10/09/2019

Time 01:11:55

Set The System Time

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

Manual

Time 10/09/2019 01:11:52

Sync with computer time

Date 10/09/2019

Time 16:11:55

Save

Device

It is for setting up the general parameters of NVR, including Device Name, HDMI Audio, HDMI Compatible Mode, etc.

General Settings

Date & Time | Device

Device Name NVR

HDMI1 Audio Enable

Audio Out Enable

Boot Wizard Enable

HDMI Compatible Mode Enable

Stream Information Disable

HDMI1/VGA1 Resolution 1920 x 1080 / 60Hz

HDMI2/VGA2 Enable

HDMI2/VGA2 Resolution 1920 x 1080 / 60Hz

Save

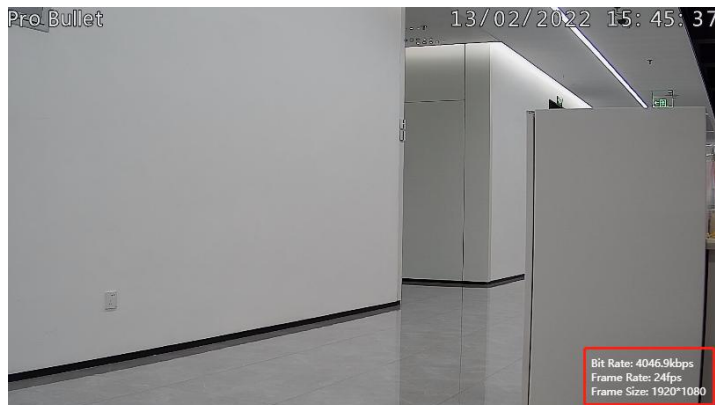
Device Name: Set the device name.

HDMI1 Audio: Enable it to use HDMI1 Audio.

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.



HDMI1/VGA1 Resolution: Set the output resolution of HDMI1/VGA1 port.

HDMI2/VGA2: Enable it to use HDMI2/VGA2 port.

HDMI2/VGA2 Resolution: Set the output resolution of HDMI2/VGA2 port.

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

Default Route: LAN1

NIC Settings

Select NIC: LAN1 Enable

IPv4 DHCP: Disable

IPv4 Address: 192 | 168 | 7 | 103

IPv4 Subnet Mask: 255 | 255 | 240 | 0

IPv4 Gateway: 192 | 168 | 0 | 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: | | |

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**.

Network

Basic | UPnP | DDNS | Email | P2P | PPPoE | SNMP | HTTPS | More

UPnP: Disable

Forwarding Type: Auto

Port Type	Edit	External Port	Internal Port	Status
HTTP	<input type="button" value="Edit"/>	21202	80	Invalid
RTSP	<input type="button" value="Edit"/>	33202	554	Invalid

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.

Network

Basic UPnP **DDNS** Email P2P PPPoE SNMP HTTPS More

Enable DDNS

Provider

External HTTP Port

External RTSP Port

DDNS URL

4.8.5.2.4 Email

Email will send receivers a screenshot when the alarm is triggered.

Network

Basic UPnP DDNS **Email** P2P PPPoE SNMP HTTPS More

Email

User Name

Password

SMTP Server

SMTP Port

Encryption TLS SSL

Host Name Enable

Sender Email Address

Receiver Email Address 1

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 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

Cloud Account

Unbind Device

Cloud Server Address

Register Code

Register QR Code 

Note: Enable Milesight Cloud function, the P2P function will be enabled automatically. Scan the QR code to bind this device to Cloud Account.

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.

Network

Basic UPNP DDNS Email P2P **PPPoE** SNMP HTTPS More

PPPoE Disable

Dynamic IP

User Name

Password

Confirm Password

Note: If both UPNP and PPPoE are enabled, only PPPoE 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:

SNMP V2c:

Read Community:

Write Community:

SNMP V3

SNMP V3:

Read Security Name:

Level of Security:

Write Security Name:

Level of Security:

SNMP Port

SNMP Port:

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

SNMP v1: No security protection

SNMP v2c: Require password for access

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

Read Community: Input the name of Read Community

Write Community: Input the name of Write Community

Read Security Name: Input the name of Read Security Community

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

Write Security Name: Input the name of Write Security Community

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

SNMP Port: The default of the SNMP port is 161

4.8.5.2.8 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

HTTPS:

Installation Type:

Create a Private Certificate:

Installed Certificate:

Attributes:

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	<input type="text"/>	*
Common Name	<input type="text"/>	*
Period of Validity	<input type="text" value="(1~999)"/>	days*
Password	<input type="password"/>	
Province	<input type="text"/>	
Region	<input type="text"/>	
Organization	<input type="text"/>	
Company	<input type="text"/>	
Email	<input type="text"/>	

Direct Installation

Click "Browse" to select a signed certificate locally and click "Install" to install it.

HTTPS	<input type="text" value="Enable"/>	
Installation Type	<input type="text" value="Direct Installation"/>	
Install Signed Certificate	<input type="text"/>	<input type="button" value="Browse"/>
	<input type="button" value="Install"/>	
Installed Certificate	<input type="text" value="C=CN, H/IP=cn"/>	<input type="button" value="Clear"/>
Attributes	Awarded to: C=CN, H/IP=cn Issuer: C=CN, H/IP=cn Period of Validity: Jun 6 16:21:28 2018 ~ Jan 14 16:21:28 2019	

Create a Certificate Request

Firstly, click "Create" button. And then enter Country, Common Name and other information to create the certificate request;

Download the certificate request and submit it to the trusted certificate authority for signature;

After receiving the signed valid certificate, import the certificate to the device.

HTTPS	<input type="text" value="Enable"/>	
Installation Type	<input type="text" value="Create a Certificate Request"/>	
Create a Certificate Request	<input type="button" value="Create"/>	Request Content
Download the Certificate Request	<input type="button" value="Download"/>	
Delete the Certificate Request	<input type="button" value="Delete"/>	
Installed Certificate	<input type="text" value="C=CN, H/IP=cn"/>	<input type="button" value="Clear"/>
Attributes	Awarded to: C=CN, H/IP=cn Issuer: C=CN, H/IP=cn Period of Validity: Jun 6 16:21:28 2018 ~ Jan 14 16:21:28 2019	

After creating and installing the certificate successfully, you can check the certificate information

and clear the information on the following interface. And you can access the NVR by inputting <https://ip:port> via the web browser.

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 Multicast

Enable multicast to reduce the load of the NVR, and the video can still be previewed normally when the NVR is multi-connected. Users just need to enable multicast and enter the IP address.

Network

Basic UPrP DDNS Email Milesight Cloud PPPoE SNMP HTTPS Multicast More

Multicast Enable

IP Address

Save

Note: Valid IP address range: 224.0.0.0~239.255.255.255.

Note:

Valid IP address range: 224.0.0.0~239.255.255.255.

4.8.5.2.10 More

Milesight

Local Configuration

Camera Storage Event System

General Settings Network Audio File Manager Holiday User Access Filter Maintenance

Network

Basic UPrP DDNS Email Milesight Cloud PPPoE SNMP HTTPS Multicast More

Channel Access Disable

Enable SSH Enable

SSH Port

HTTP Port

HTTPS Port

RTSP Port

POS Port

Push Message Enable

Push Stream Type

Push Message Settings

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.

POS Port

It is the communication port between NVR and the POS machine. The default POS port is 38800.

Push Message

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

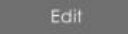
Push Video Stream

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

Note:

Only NVR model ends with letter T support.

Push Event Type

Click  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

The screenshot shows the 'Push Message Settings' dialog box with the 'Camera Event' tab selected. The 'Channel' dropdown is set to '1'. Under 'Push Event Type', the following options are checked: All, Motion Detection, Video Loss, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, Object Left/Removed, Alarm Input (with sub-options 1 and 2 checked), and ANPR (with sub-options Black List, White List, and Visitor List checked). Buttons for 'Copy', 'OK', and 'Cancel' are at the bottom.

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

The screenshot shows the 'Push Message Settings' dialog box with the 'NVR Event' tab selected. Under 'Alarm Input', the 'All' checkbox is checked, and checkboxes for channels 1 through 16 are also checked. Under 'POS', the 'All' checkbox is checked, and checkboxes for channels 1 through 16 are also checked. Buttons for 'OK' and 'Cancel' are at the bottom.

Select channels which you want to push the Alarm Input Event or the POS Event of NVR.

Note:

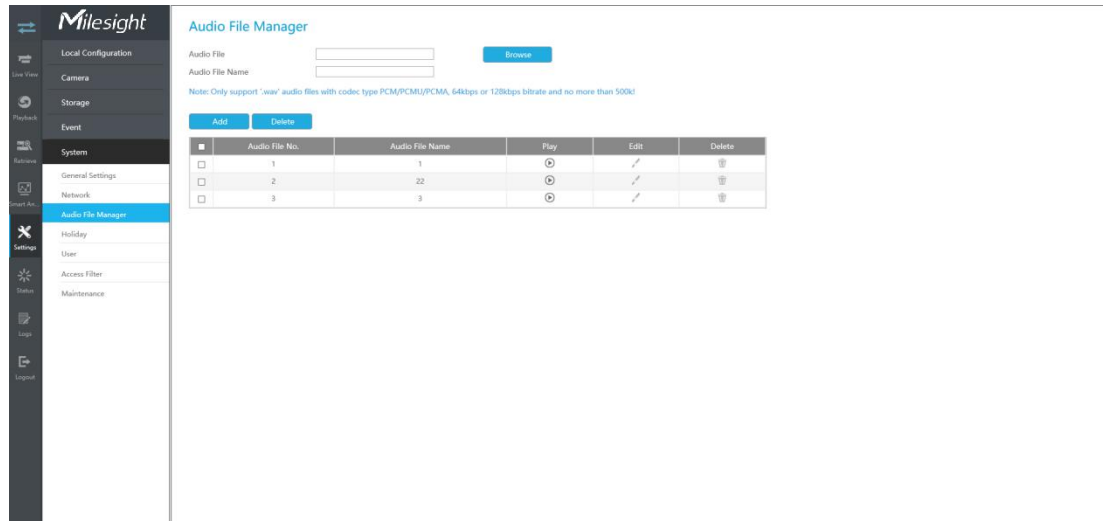
There would not have NVR Event interface if your NVR doesn't have alarm input interface.

4.8.5.3 Audio File Manager


Here you can upload up to 10 audio files.


Note:

Ensure that the NVR hardware has an Audio Output interface.



Add a new audio file

Click  to select an audio file and enter the audio file name, and then click

 to add a new audio file.

Note:

Ensure that the audio file format is “.wav”, the codec type is PCM/PCMU/PCMA, 64kbps or 128kbps bitrate and doesn't exceed 500K.



Play audio file


Select an audio file and click  to play the audio file.

Edit audio file

Select an audio file and click  to edit the audio file name.

Delete audio file

Select an audio file and click  to delete the audio file name.

In addition, you can also check multiple audio files and click  to delete them.

4.8.5.4 Holiday

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

No.	Holiday Name	Status	Start Date	End Date	Edit
1	Holiday	Disable	1-1	1-1	
2	Holiday	Disable	1-1	1-1	
3	Holiday	Disable	1-1	1-1	
4	Holiday	Disable	1-1	1-1	
5	Holiday	Disable	1-1	1-1	
6	Holiday	Disable	1-1	1-1	
7	Holiday	Disable	1-1	1-1	
8	Holiday	Disable	1-1	1-1	
9	Holiday	Disable	1-1	1-1	
10	Holiday	Disable	1-1	1-1	
11	Holiday	Disable	1-1	1-1	
12	Holiday	Disable	1-1	1-1	
13	Holiday	Disable	1-1	1-1	
14	Holiday	Disable	1-1	1-1	
15	Holiday	Disable	1-1	1-1	

Click to open holiday configuration page to modify holiday name, check the 'Enable Holiday' check-box, and then select [Type] to setup Start/End date. There are By0 Month, By Week, and By Date in [Type] mode. Then click [OK] to save the configuration and return to holiday page.

Edit Holiday

Holiday Name:

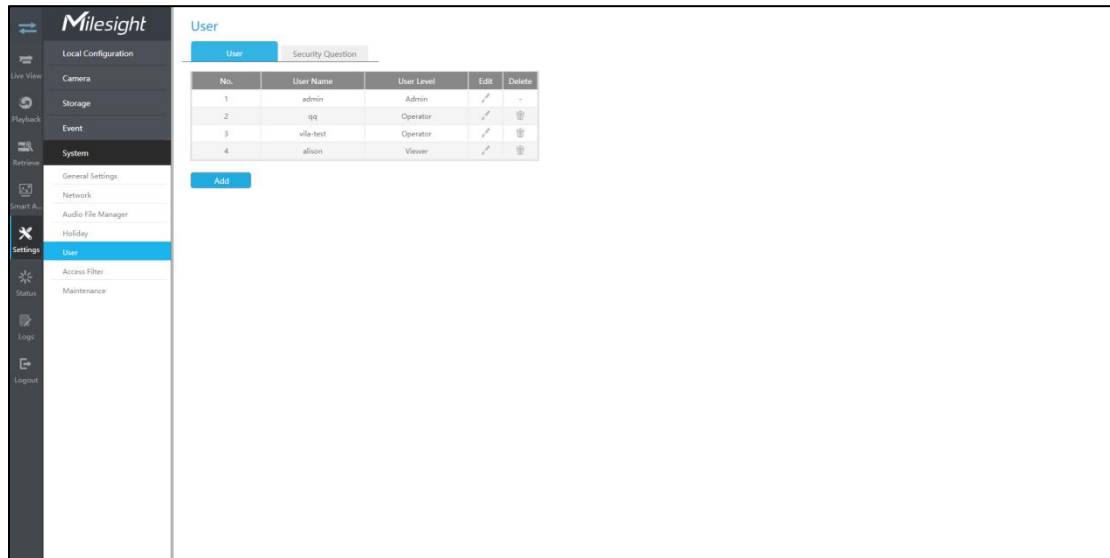
Enable Holiday:

Type:

Start Date:

End Date:




4.8.5.5 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.

Add a new user

Click , input user information, then click  to configure the user permission, and click  to save settings.

Add User

Admin Password

User Name

Password

Confirm Password

User Level



User Permissions

Note:

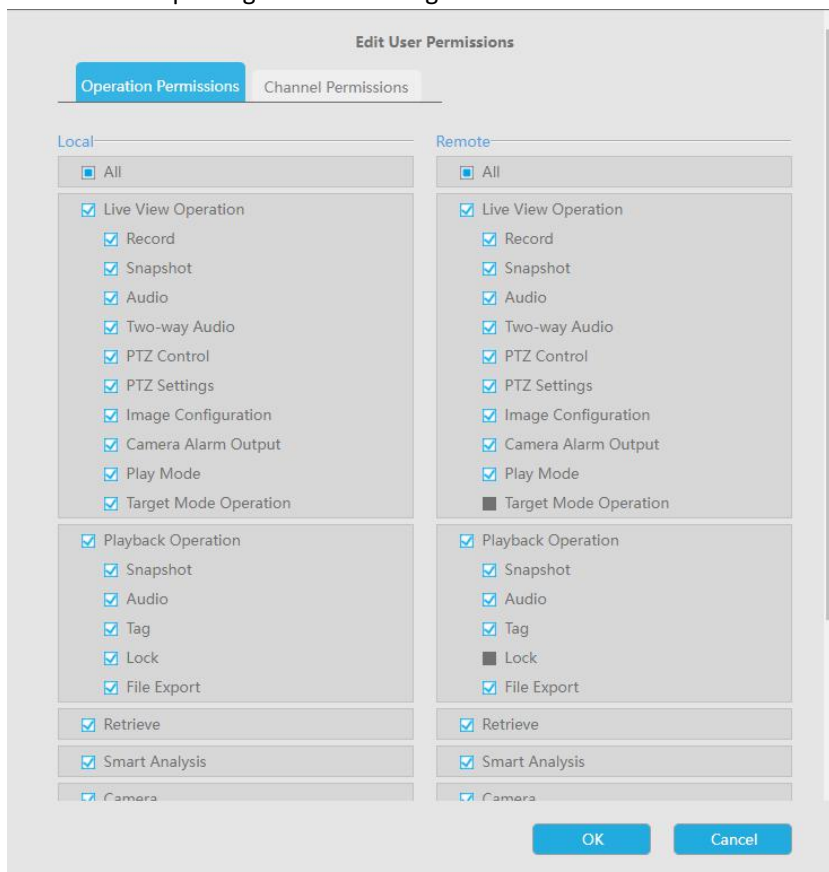
User name can only contain letters and number. There are two user levels with different

authority: Operator and Viewer.

Edit user limits

Select a user, click  and a window for editing the user will pop up, then click  to edit the user permissions. User Permissions include Operation Permissions and Channel Permissions.

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



Edit User Permissions

Operation Permissions Channel Permissions

Local


- All
- Live View Operation
 - Record
 - Snapshot
 - Audio
 - Two-way Audio
 - PTZ Control
 - PTZ Settings
 - Image Configuration
 - Camera Alarm Output
 - Play Mode
 - Target Mode Operation
- Playback Operation
 - Snapshot
 - Audio
 - Tag
 - Lock
 - File Export
- Retrieve
- Smart Analysis
- Camera

Remote

- All
- Live View Operation
 - Record
 - Snapshot
 - Audio
 - Two-way Audio
 - PTZ Control
 - PTZ Settings
 - Image Configuration
 - Camera Alarm Output
 - Play Mode
 - Target Mode Operation
- Playback Operation
 - Snapshot
 - Audio
 - Tag
 - Lock
 - File Export
- Retrieve
- Smart Analysis
- Camera

OK Cancel

Edit user password


Select a user, click  and a window for editing the user will pop up, enable “Change Password” to modify password.

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

Delete user

Select a user and click  to delete a user.

Modify Security Question

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

User

User
Security Question

Password Authentication

Admin Password:

Security Question Setting (Questions are already set!)

Security Question1:

Security Answer1:

Security Question2:

Security Answer2:

Security Question3:

Security Answer3:

OK

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.

4.8.5.6 Access Filter

Enable Access Filter to restrict or open the access to device address added via IP or MAC.



Step 1. Enable Access Filter.

Access Filter

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 Type

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 Rule:

IP Address:

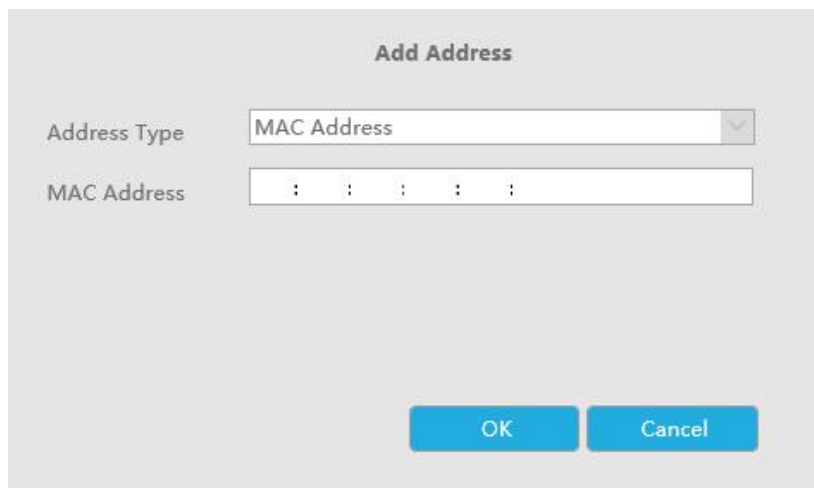
Add Address

Address Type:

IP Address Rule:

IP Address: -

Method 2: Add the address via MAC.



Add Address

Address Type: MAC Address

MAC Address: : : : : :

OK Cancel

Step 4. Then click  to make Access Filter effective.

You can click  in the Access Filter interface to edit the corresponding address again.



Edit Address

Address Type: IP Address

IP Address Rule: Single

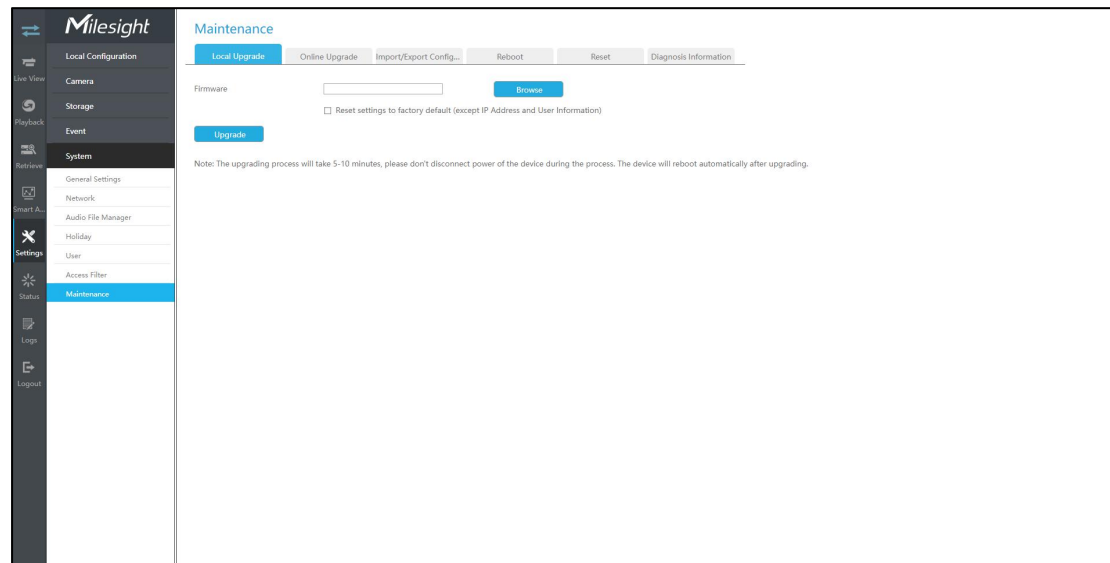
IP Address: 192.168.7.22

OK Cancel



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.

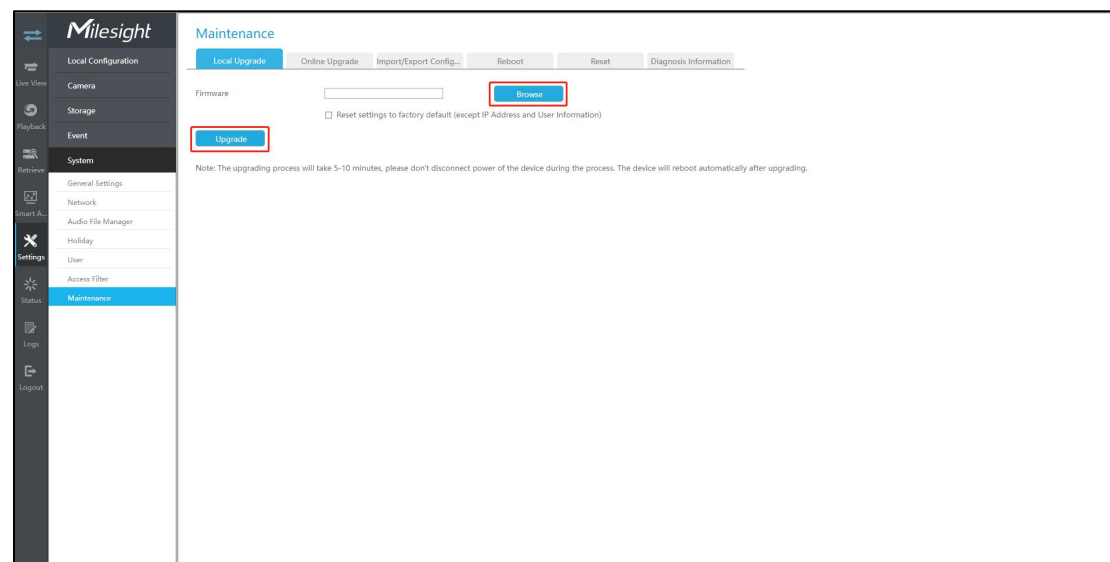
4.8.5.7 Maintenance



Local Upgrade

Step1. Click  to select the firmware file, and you can check  to reset configuration to factory defaults;

Step2. Click  to confirm the upgrade.



Note:

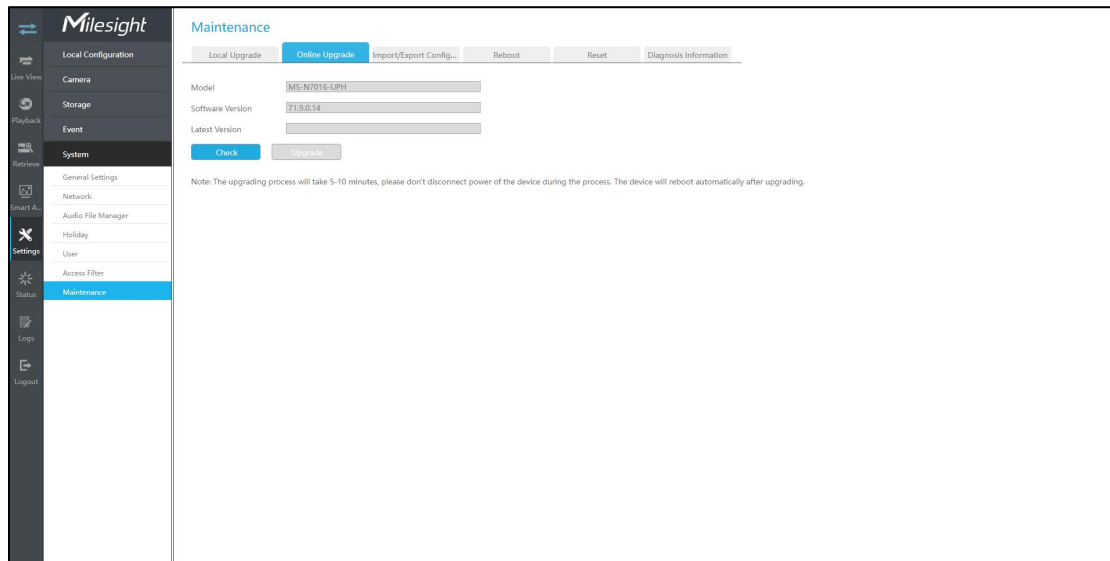
It will take 5 to 10 minutes to upgrade, please do not disconnect the device power during the process. The device will reboot automatically after upgrading.

Online Upgrade

Step1. Click  to confirm whether there is a new version;

If there is a new version, the Latest Version column will display corresponding information.



Step2. Click  to confirm the upgrade.

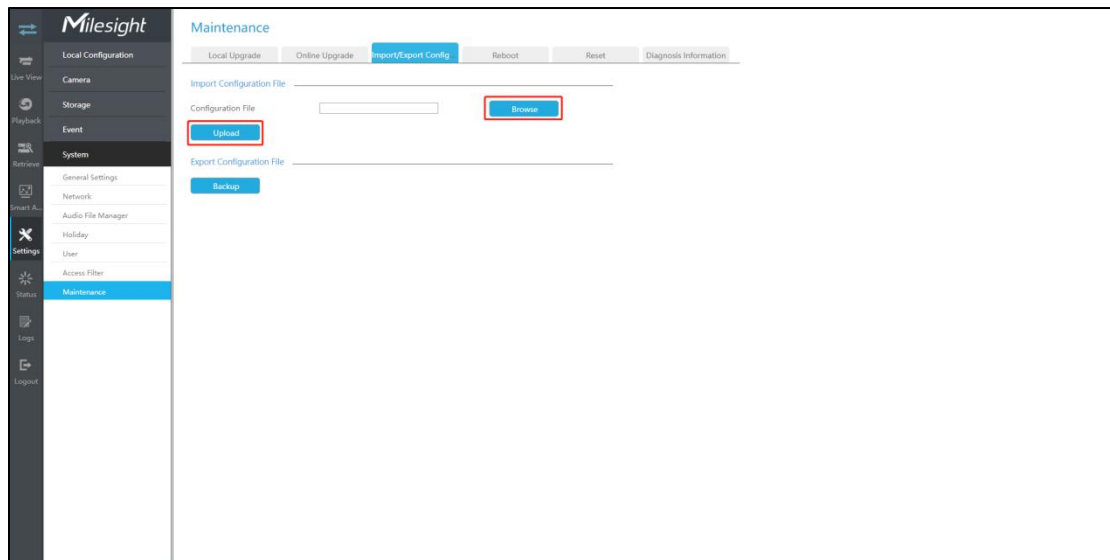


Note:

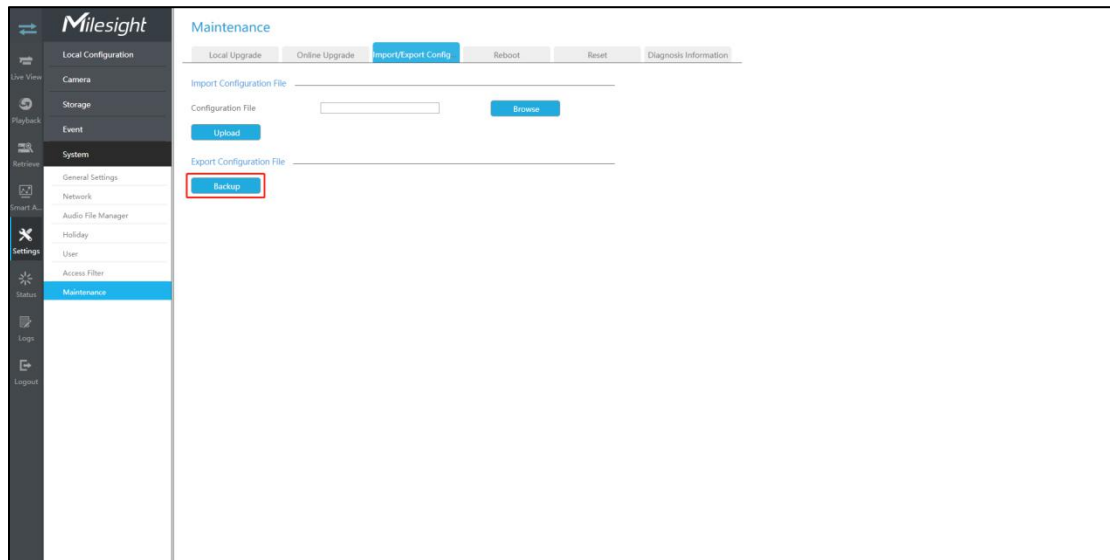
It will take 5 to 10 minutes to upgrade, please do not disconnect the device power during the process. The device will reboot automatically after upgrading.

Import/Export Configuration

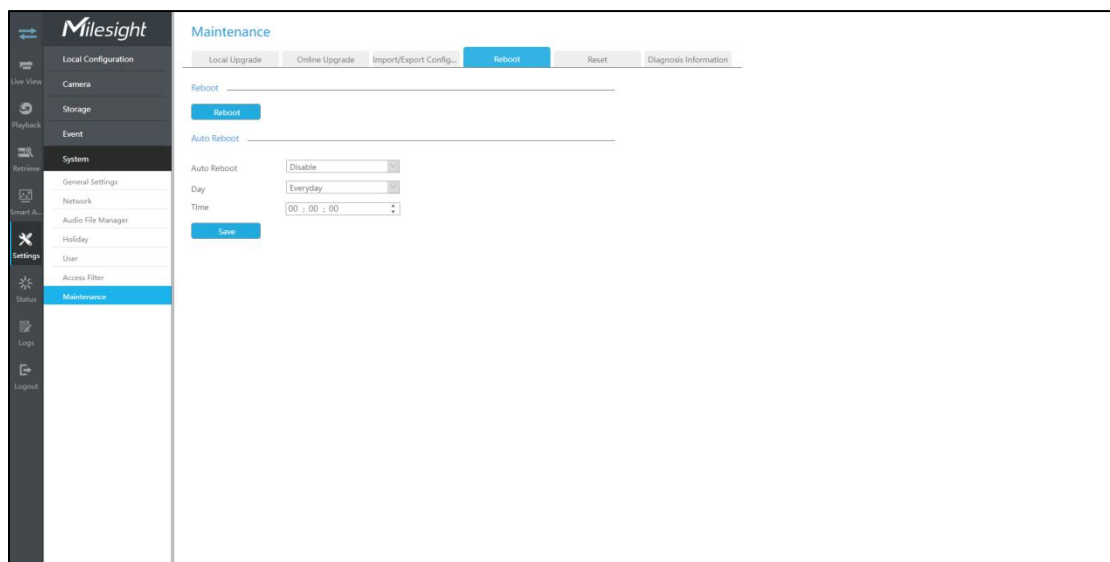
Import Configuration File: Click  to select one file and click  to import the NVR configuration.



Export Configuration File: Click  to backup current NVR settings.



Reboot



Reboot

Click  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.

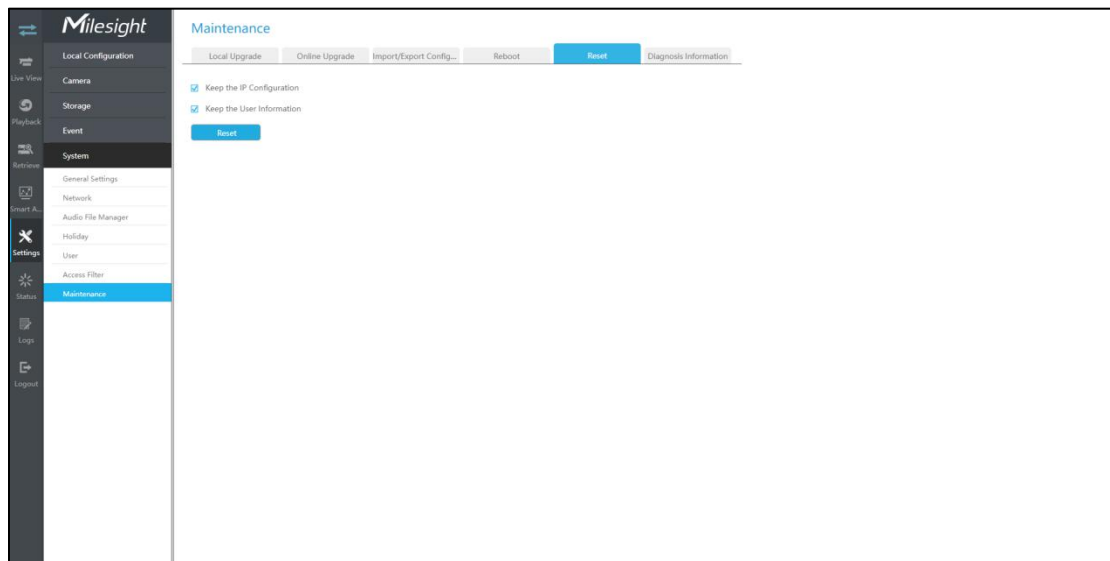
Note:

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

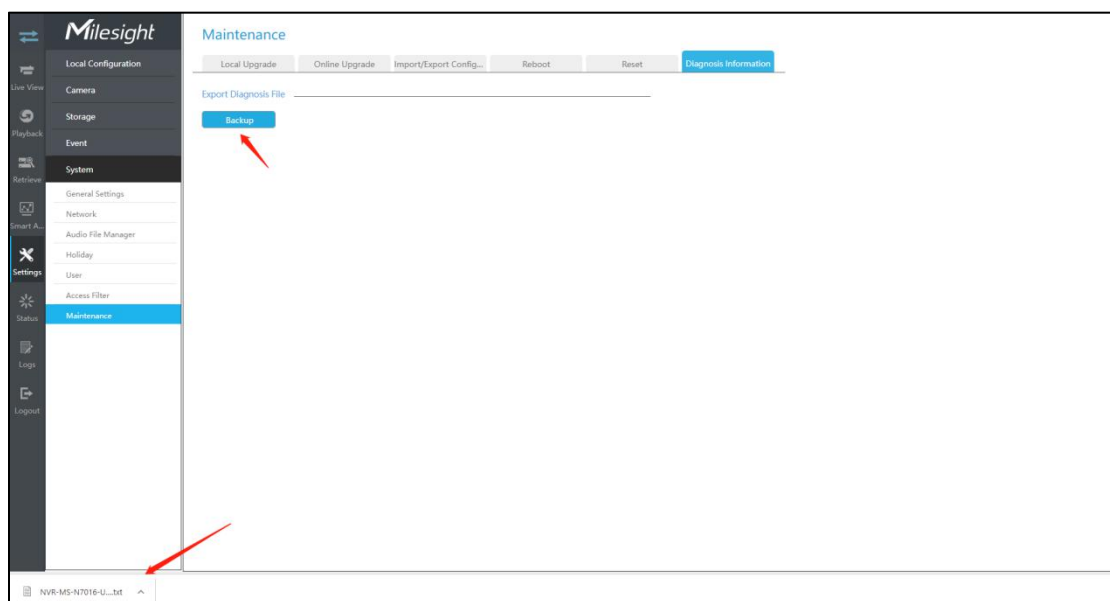
Click  to reset the NVR to factory defaults.

Keeping the IP parameters and Keeping the User information are available.



Diagnosis Information

Click  and select the path to save the diagnosis file to export the diagnosis file.



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.

4.9.2 Network Status

4.9.2.1 Network Status

Network Status includes three main parts: Receive Bandwidth, LAN.

The screenshot shows the Milesight web interface with the 'Network Status' page selected. The page is divided into three main sections: Receive Bandwidth, LAN1, and LAN2.

Receive Bandwidth

Free	Used
146.5Mbps	13.5Mbps

LAN1

Connection			
Link Is up	- 100Mbps Duplex		
IPv4 DHCP	Disable	IPv6 Mode	Manual
IP Address	192.168.69.168	IPv6 Address	
IPv4 Netmask	255.255.255.0	IPv6 Prefix Length	
IPv4 Gateway	192.168.69.1	IPv6 Gateway	
Preferred DNS Server	218.85.152.99	Alternate DNS Server	144.144.144.144
MAC	1C:C3:160A:E8:D2	MTU	1500
Receive Rate	11.92Mbps	Send Rate	226.13Kbps

LAN2

Connection			
Link Is up	- 1000Mbps Duplex		
IPv4 DHCP	Disable	IPv6 Mode	Manual
IP Address	192.168.10.1	IPv6 Address	
IPv4 Netmask	255.255.255.0	IPv6 Prefix Length	
IPv4 Gateway	192.168.10.1	IPv6 Gateway	
Preferred DNS Server	8.8.8.8	Alternate DNS Server	
MAC	1C:C3:160A:E8:D3	MTU	1500
Receive Rate	0.00Kbps	Send Rate	0.00Kbps

4.9.2.2 Network Test

Users can quickly know the network status between the NVR and the destination address such as the camera or computer.

The screenshot shows the Milesight web interface with the 'Network Test' page selected. The 'Destination Address' field is set to '192.168.69.168'. The 'Test Result' section displays the output of a ping test.

Destination Address: 192.168.69.168

Test Result:

```
PING 192.168.69.168 (192.168.69.168): 56 data bytes
64 bytes from 192.168.69.168: seq=0 ttl=64 time=1.417 ms
64 bytes from 192.168.69.168: seq=1 ttl=64 time=0.078 ms
64 bytes from 192.168.69.168: seq=2 ttl=64 time=0.091 ms
64 bytes from 192.168.69.168: seq=3 ttl=64 time=0.091 ms
64 bytes from 192.168.69.168: seq=4 ttl=64 time=0.072 ms
64 bytes from 192.168.69.168: seq=5 ttl=64 time=0.084 ms
64 bytes from 192.168.69.168: seq=6 ttl=64 time=0.090 ms
64 bytes from 192.168.69.168: seq=7 ttl=64 time=0.077 ms
64 bytes from 192.168.69.168: seq=8 ttl=64 time=0.085 ms
64 bytes from 192.168.69.168: seq=9 ttl=64 time=0.078 ms
64 bytes from 192.168.69.168: seq=10 ttl=64 time=0.085 ms
64 bytes from 192.168.69.168: seq=11 ttl=64 time=0.084 ms
64 bytes from 192.168.69.168: seq=12 ttl=64 time=0.085 ms
64 bytes from 192.168.69.168: seq=13 ttl=64 time=0.084 ms
64 bytes from 192.168.69.168: seq=14 ttl=64 time=0.084 ms
64 bytes from 192.168.69.168: seq=15 ttl=64 time=0.086 ms
```

Start Stop

4.9.3 Camera Status

Camera status includes Channel, Name, IPv4 Address, Record, Frame Rate, Bit rate, Resolution and Status.

Camera Status

Channel	Name	IP Address	Record	Frame Rate	Bit Rate	Resolution	Status
1	CAM1	192.168.14.102	Off	0fps	0Kbps	0x0	
2	CAM2	192.168.14.103	Off	26fps	4018Kbps	1920x1080	
3	CAM3	192.168.14.104	Off	20fps	3424Kbps	1920x1080	
4	CAM4	192.168.14.105	Off	21fps	8419Kbps	2560x2560	
5	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-

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.

Disk Status

Port	Vendor	Status	Total(GB)	Free(GB)	Type	Property
2	WDC WD2500BEVT-08A23T1	Normal	232	0	LOCAL	R/W

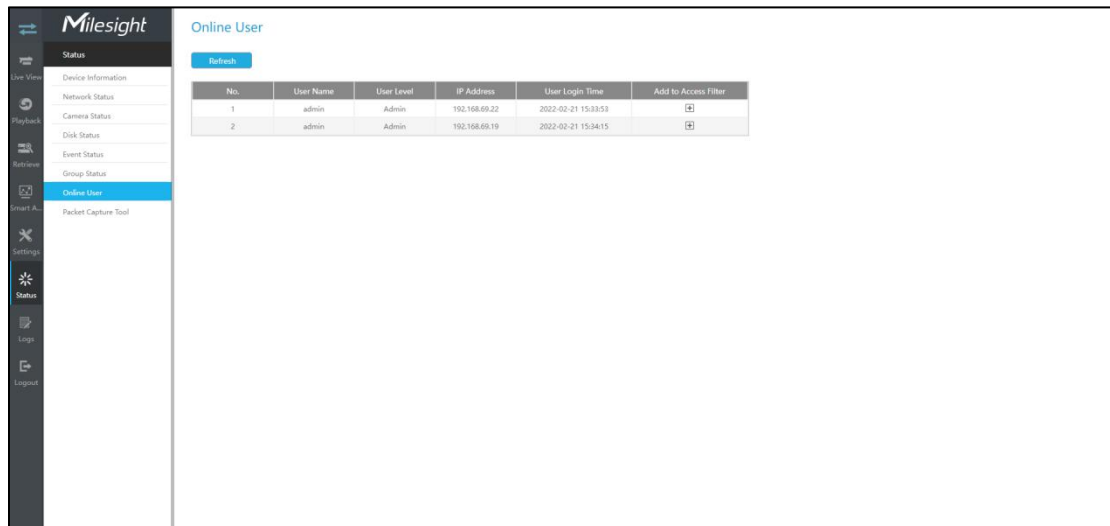
Total Capacity(GB)

Available Capacity(GB)



[Refresh](#)

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 screenshot shows the Milesight web interface. On the left is a navigation sidebar with options like Status, Device Information, Network Status, Camera Status, Disk Status, Event Status, Group Status, Online User, Packet Capture Tool, Smart A., Settings, Status, Logs, and Logout. The main content area is titled 'Online User' and contains a 'Refresh' button and a table of online users.

No.	User Name	User Level	IP Address	User Login Time	Add to Access Filter
1	admin	Admin	192.168.69.22	2022-02-21 15:33:53	
2	admin	Admin	192.168.69.19	2022-02-21 15:34:15	

The IP address can be added to Access Filter interface from Online User interface directly.




This is a close-up of the 'Online User' table. A red arrow points to the 'Add to Access Filter' icon in the first row.


No.	User Name	User Level	IP Address	User Login Time	Add to Access Filter
1	admin	Admin	192.168.7.25	2021-06-24 02:23:09	



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.

Event Status

Camera Event Alarm VCA People Counting

Channel	Name	IPv4 Address	Video Loss	Motion
1	CAM1	192.168.7.131		
2	CAM2	192.168.14.105		
3	CAM3	192.168.14.103		
4	CAM4			
5	CAM5	192.168.14.102		
6	CAM6	192.168.7.241		
7	CAM7			
8	CAM8			
9	CAM9			
10	CAM10			

Alarm

Alarm shows the Alarm Input and Alarm Output status. turns into when alarm is triggered.

Event Status

Camera Event Alarm VCA People Counting

Alarm Input List

No.	Alarm Name	Alarm Type	Status
1		NO	
2		NO	
3		NO	
4		NO	
5		NO	
6		NO	
7		NO	
8		NO	

Alarm Output List

No.	Alarm Name	Alarm Type	Dwell Time	Status
1		NO	5s	
2		NO	5s	
3		NO	5s	
4		NO	5s	
CH1_1		NO	5s	
CH1_2		--	--	--
CH2_1		NC	5s	
CH2_2		--	--	--

VCA

It shows the VCA status. turns into when alarm is triggered.

Event Status

Camera Event Alarm VCA People Counting

Channel	Name	IPv4 Address	Region Entrance	Region Exiting	Advanced Motion Detection	Tamper Detection	Line Crossing	Loitering	Human Detection	Object Left/Removed
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									

People Counting

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

Event Status

Camera Event Alarm VCA **People Counting**

Channel	Name	IPv4 Address	In	Out
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	--	--	--

4.9.7 Group Status

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

Milesight Group Status

Status

Sort by Group Sort by Channel

Group	Disk	Channel
1	3,4,26	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
2	--	--
3	--	--
4	--	--
5	--	--
6	--	--
7	--	--
8	--	--
9	--	--
10	--	--
11	--	--
12	--	--
13	--	--
14	--	--
15	--	--
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.

Packet Capture Tool

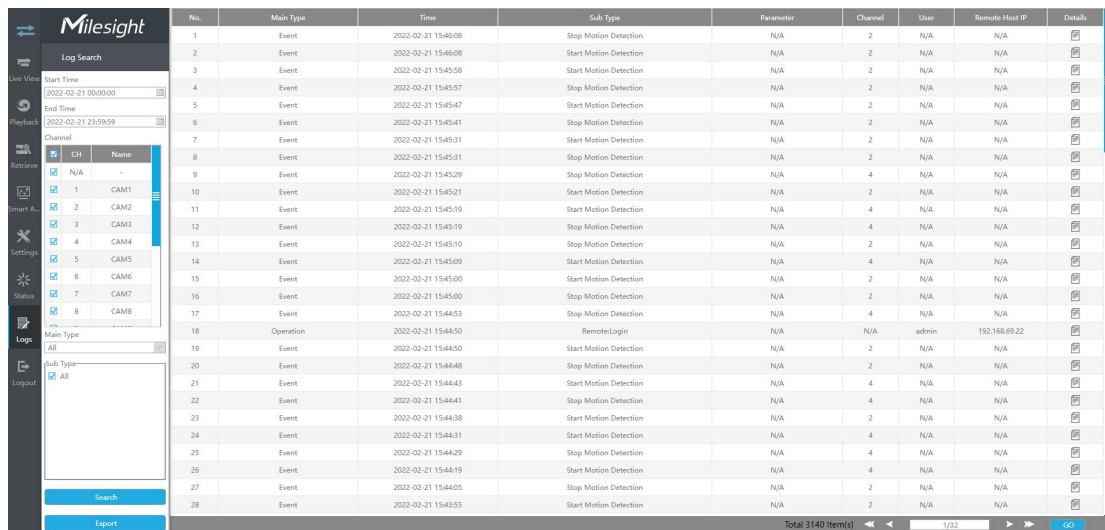
IP

Port

NIC

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.



No.	Main Type	Time	Sub Type	Parameter	Channel	User	Remote Host IP	Details
1	Event	2022-02-21 15:46:08	Stop Motion Detection	N/A	2	N/A	N/A	
2	Event	2022-02-21 15:46:08	Start Motion Detection	N/A	2	N/A	N/A	
3	Event	2022-02-21 15:45:58	Start Motion Detection	N/A	2	N/A	N/A	
4	Event	2022-02-21 15:45:57	Stop Motion Detection	N/A	2	N/A	N/A	
5	Event	2022-02-21 15:45:47	Start Motion Detection	N/A	2	N/A	N/A	
6	Event	2022-02-21 15:45:41	Stop Motion Detection	N/A	2	N/A	N/A	
7	Event	2022-02-21 15:45:31	Start Motion Detection	N/A	2	N/A	N/A	
8	Event	2022-02-21 15:45:31	Stop Motion Detection	N/A	2	N/A	N/A	
9	Event	2022-02-21 15:45:29	Stop Motion Detection	N/A	4	N/A	N/A	
10	Event	2022-02-21 15:45:21	Start Motion Detection	N/A	2	N/A	N/A	
11	Event	2022-02-21 15:45:19	Start Motion Detection	N/A	4	N/A	N/A	
12	Event	2022-02-21 15:45:19	Stop Motion Detection	N/A	4	N/A	N/A	
13	Event	2022-02-21 15:45:10	Stop Motion Detection	N/A	2	N/A	N/A	
14	Event	2022-02-21 15:45:09	Start Motion Detection	N/A	4	N/A	N/A	
15	Event	2022-02-21 15:45:00	Start Motion Detection	N/A	2	N/A	N/A	
16	Event	2022-02-21 15:45:00	Stop Motion Detection	N/A	2	N/A	N/A	
17	Event	2022-02-21 15:44:53	Stop Motion Detection	N/A	4	N/A	N/A	
18	Operation	2022-02-21 15:44:50	RemoteLogin	N/A	N/A	admin	192.168.69.22	
19	Event	2022-02-21 15:44:50	Start Motion Detection	N/A	2	N/A	N/A	
20	Event	2022-02-21 15:44:48	Stop Motion Detection	N/A	2	N/A	N/A	
21	Event	2022-02-21 15:44:43	Start Motion Detection	N/A	4	N/A	N/A	
22	Event	2022-02-21 15:44:41	Stop Motion Detection	N/A	4	N/A	N/A	
23	Event	2022-02-21 15:44:38	Start Motion Detection	N/A	2	N/A	N/A	
24	Event	2022-02-21 15:44:31	Start Motion Detection	N/A	4	N/A	N/A	
25	Event	2022-02-21 15:44:29	Stop Motion Detection	N/A	4	N/A	N/A	
26	Event	2022-02-21 15:44:19	Start Motion Detection	N/A	4	N/A	N/A	
27	Event	2022-02-21 15:44:05	Stop Motion Detection	N/A	2	N/A	N/A	
28	Event	2022-02-21 15:43:55	Start Motion Detection	N/A	2	N/A	N/A	

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
- ③ Advanced Motion Detection
- ④ Line Crossing
- ⑤ Loitering

Details


Time	2021-02-22 02:05:45
Type	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: Primary Stream
Detection Object:Human

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4.11 Logout

Click  to exit the current account.



5. Services

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

Technical Support Mailbox: support@milesight.com

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

Online Problem Submission System: <http://www.milesight.com/support/feedback.asp>

MILESIGHT USA

TEL: +1-800-561-0485

Add: 220 NE 51st ST, Oakland Park, Florida 33334, USA

MILESIGHT KOREA

TEL: +82-2-839-3335

Add: 9F/925, 25-32, Anyang SK V1 Center, LS-ro 116beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, Korea

MILESIGHT CHINA

TEL: +86-592-5922772

Add: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China

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