Network Video Recorder
User Manual

V5.14

Milesight Technology Co.,Ltd.

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.

⚠	⚠
Warnings: Please follow these safeguards to prevent injury or death.	**Cautions:** Please follow these safeguards to prevent potential injury or material damage.

Warnings

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

Cautions

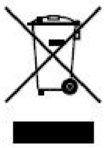
- Make sure that the power supply voltage is correct before using the camera
- Do not store or install the device in extremely hot or cold temperatures, dusty or damp locations, and do not expose it to high electromagnetic radiation
- Only use components and parts recommended by manufacturer
- Do not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

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

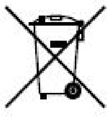
- Use a blower to remove dust from the lens cover
- Use a soft, dry cloth to clean the surface of the camera. Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry
- Do not use volatile solvents such as alcohol, benzene or thinners as they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

EU Conformity Statement

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



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



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury(Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Content

1. Product Introduction

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 and VCA events.
- Support Occupancy Live View.
- Support PAL/NTSC adaptive video input.
- Support multiple screen displaying in live view.
- Support Custom Layout.
- Support 1/4/8/9/12/14/16/32 screen live view. The channel sequence is adjustable.
- Support quick menu and tool bar in live view.
- Support displaying Event Detection Region and the detection frame to track the target.
- Support batch IP editing, setting camera’s video parameters and record schedule.
- Support the switch of Live View, manual switch and automatic patrol. The interval of automatic sequence is adjustable.
- Support motion detection and video loss alert.
- Support various PTZ protocols and PTZ operations such as preset, patrol, etc.
- Support the configuration of **Auto Tracking** function on monitor directly.
- Support central zoom in by clicking the mouse at arbitrary area.
- Support 3D positioning control for the PTZ Camera Series and Fisheye Camera Series.
- Support the configuration of privacy mask of camera.
- Support the configuration of Milesight PTZ cameras’ Privacy Mask on monitor.
- Support OSD title and date configuration.
- Support instant playback.

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

HDD Management

- Support hard disk and NAS storage.
- Support S.M.A.R.T technology.
- Support RAID, Group management and Storage Quota.
- Support to set HDD property, including read-only and read/write.
- Support eSATA disk for recording or backup of NVR Pro 8000 Series.

Recording/Snapshot and Playback

- Support ANR (Automatic Network Replenishment) for replenishing the recording gap due to internet interruptions.
- Support Transcoding for remote playback.
- Support recording with Primary Stream, Secondary Stream and Primary + Secondary Stream.
- Support General Playback, Event Playback, Tag Playback, Split Playback and Picture Playback.
- Support to tag and lock video.
- Support holiday schedule.
- Support recycle and non-recycle recording mode.
- Support 12 recording time periods with separate recording types.
- Support pre-record and post-record time setting for motion detection, alarm and VCA recording. And support pre-record setting for manual and schedule recording.
- Support recording/snapshot manually.
- Support digital zoom function at arbitrary area in playback.
- Support pause, rewind, fast play, slow play, skip forward and skip backward when playback, locating in progress bar by dragging the mouse.
- Support up to 128x fast forward playback.
- Support the recording and snapshot in the channels where the events triggered.
- Support Smart Search in Playback.

Backup

- Support N+1 Hot Spare.
- Support Common Backup, Event Backup and Picture Back in Retrieve interface.
- Support export video files or snapshot to USB and eSATA device.
- Support Auto Backup function of NVR Pro 8000 Series.
- Support backup device maintenance and management.

Alarm & Exception

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

Network

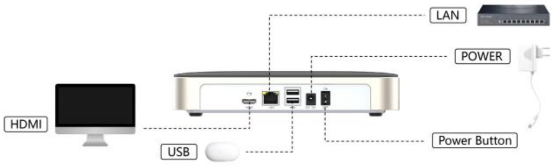
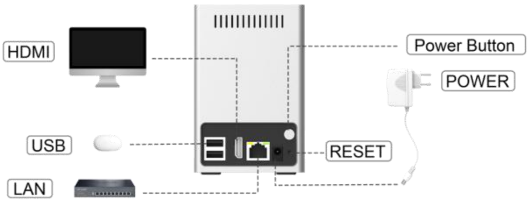
- Equipped with PoE ports for PoE cameras(only available for PoE NVR).
- Support remote search, playback and download of video files.
- Support remote acquiring and configuring of parameters.
- Support remote import and export of device parameters.
- Support Milesight Cloud.
- Support P2P remote access.
- Support IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SNTP, SMTP, SNMP, UPnP.
- Support remote acquiring of device status, system log and alarm status.
- Support remote operate system maintenance by initialize hard disk, add NAS, upgrade firmware and auto reboot, etc.
- Support upload alarm and exceptions to remote host.
- Support remote manual start or stop of recording.
- Support remote manual start or stop of alarm output.
- Support remote BMP image capturing.
- Support remote PTZ control.
- Support keyboard control.
- Built-in WEB Server.

Other Functions

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

2. Hardware

2.1 Panel Buttons

<table>
<tr><th>Model</th><th>Hardware/Interface</th></tr>
<tr><td rowspan="3"><b>4K H.265 Mini NVR 1000 Series</b></td><td>MS-N1004-UC/MS-N1008-UC:
 </td></tr>
<tr><td>MS-N1009-UT <b>(Firmware version: 71.xx.xx.xx)</b>:
 </td></tr>
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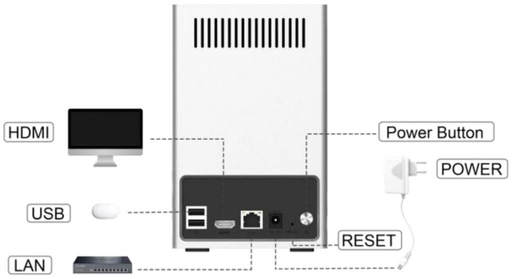
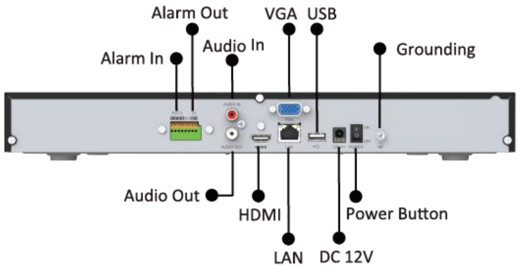
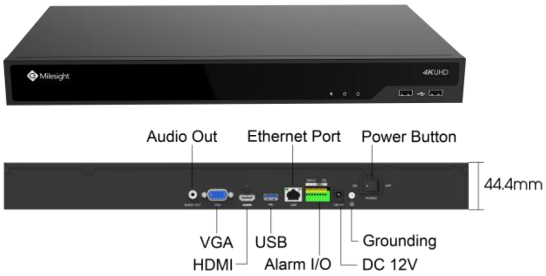
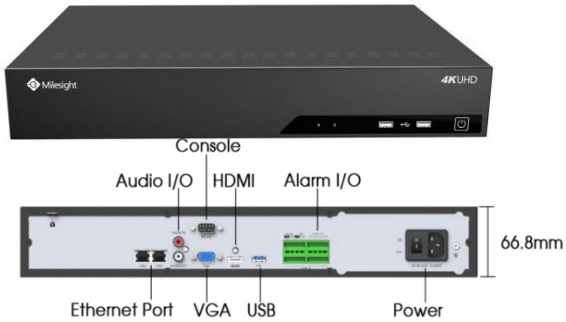
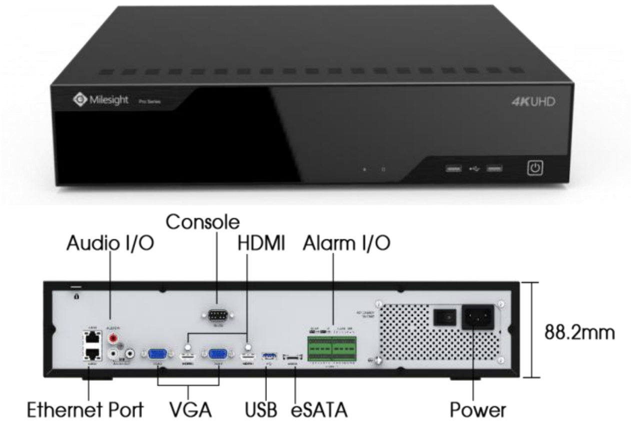
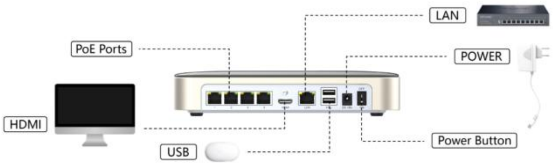
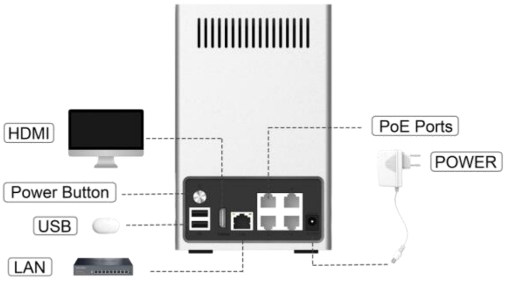
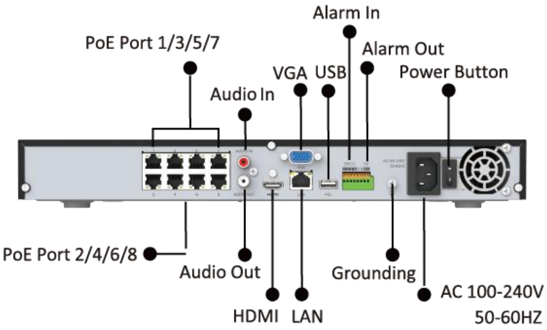
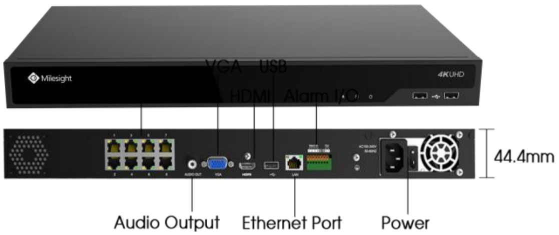
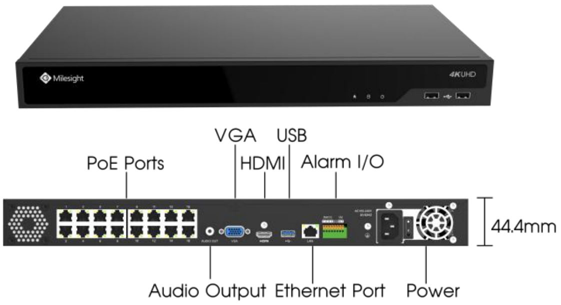
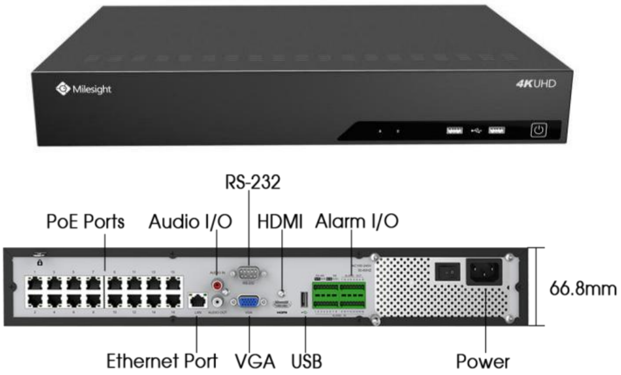
 </td></tr>
<tr><td><b>4K H.265 Pro NVR 5000 Series</b></td><td>MS-N5008-UC:

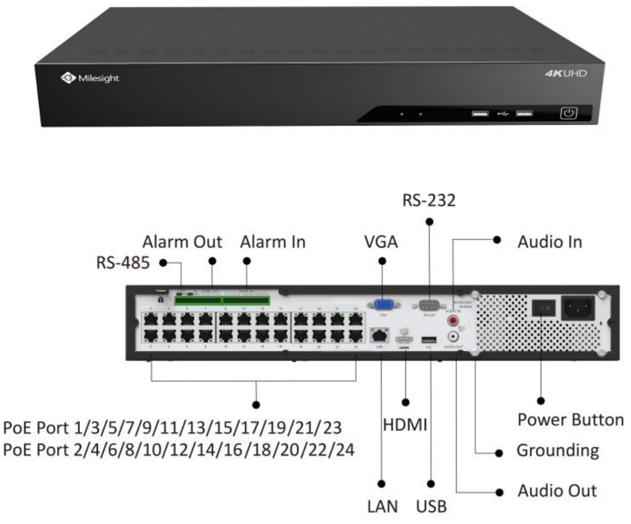


Alarm Out
VGA
USB
Audio In
Alarm In
Grounding
Audio Out
HDMI
Power Button
LAN
DC 12V

</td></tr>
</table>

	MS-N5008-UT/MS-N5016-UT:  Audio Out Ethernet Port Power Button 44.4mm VGA HDMI USB Alarm I/O Grounding DC 12V
4K H.265 Pro NVR 7000 Series	MS-N7016-UH/MS-N7032-UH:  Console Audio I/O HDMI Alarm I/O 66.8mm Ethernet Port VGA USB Power
4K H.265 Pro NVR 8000 Series	MS-N8032-UH/MS-N8064-UH:  Console Audio I/O HDMI Alarm I/O 88.2mm Ethernet Port VGA USB eSATA Power
	MS-N1004-UPC/MS-N1008-UPC: 
	MS-N1009-UPT: 

4K H.265 PoE NVR Series	MS-N5008-UPC:  Alarm In PoE Port 1/3/5/7 Alarm Out VGA USB Power Button Audio In PoE Port 2/4/6/8 Audio Out Grounding AC 100-240V 50-60HZ HDMI LAN
	MS-N5008-UPT:  VGA USB HDMI Alarm I/O 44.4mm Audio Output Ethernet Port Power
	MS-N5016-UPT:  VGA USB PoE Ports HDMI Alarm I/O 44.4mm Audio Output Ethernet Port Power
	MS-N7016-UPH:  RS-232 PoE Ports Audio I/O HDMI Alarm I/O 66.8mm Ethernet Port VGA USB Power
	MS-N7032-UPH:

	 Milesight 4KUHD 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 Grounding Audio Out LAN USB

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.

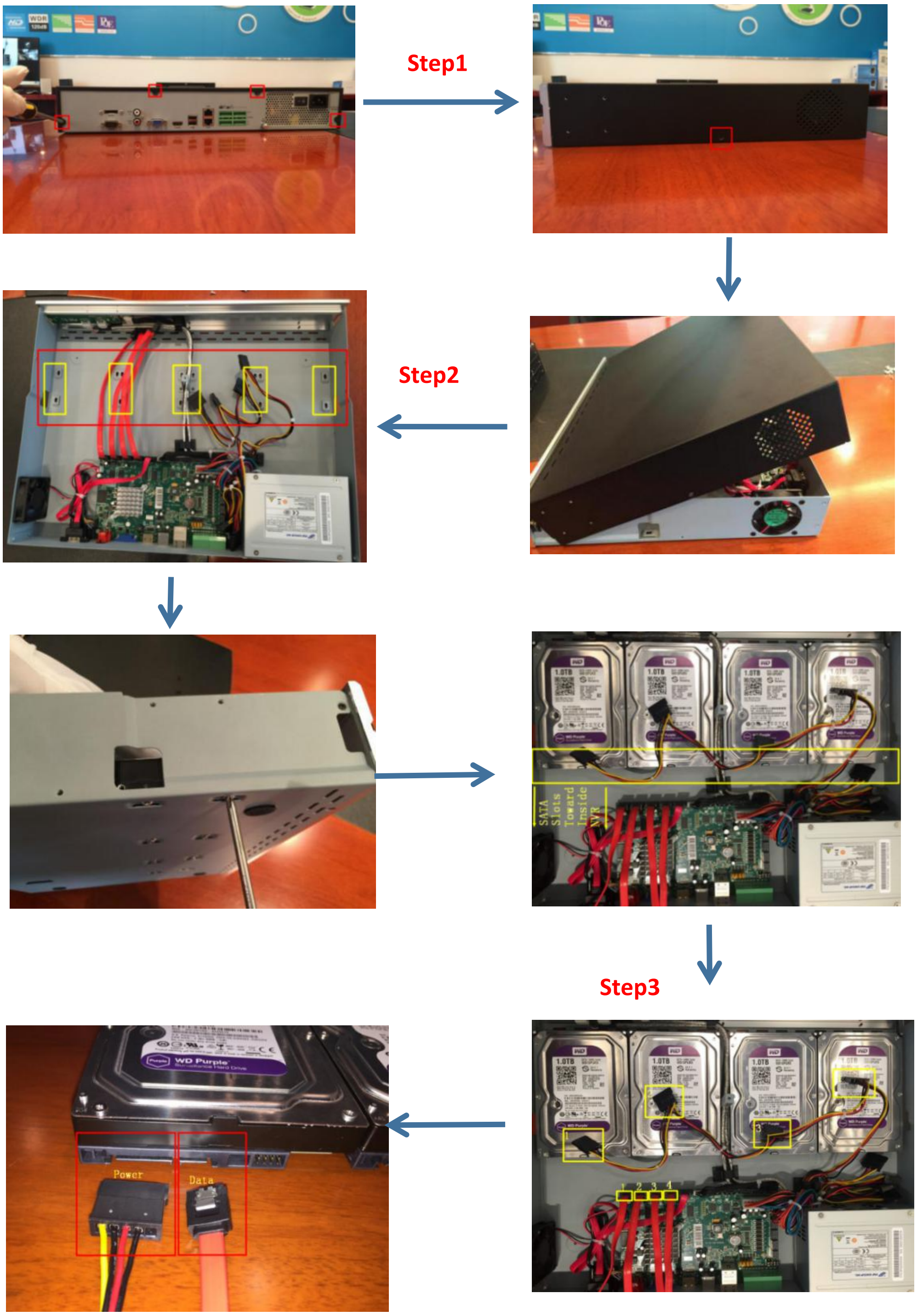
2.3 Hard Disk Installation

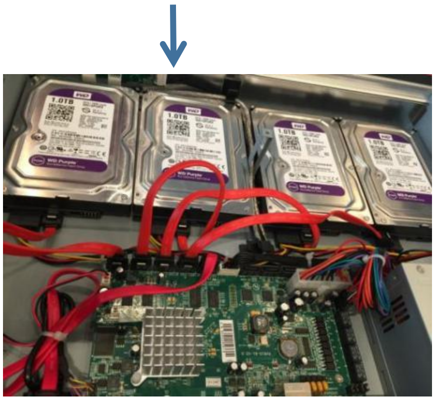
2.3.1 MS-N7000 series Hard Disk Installation

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

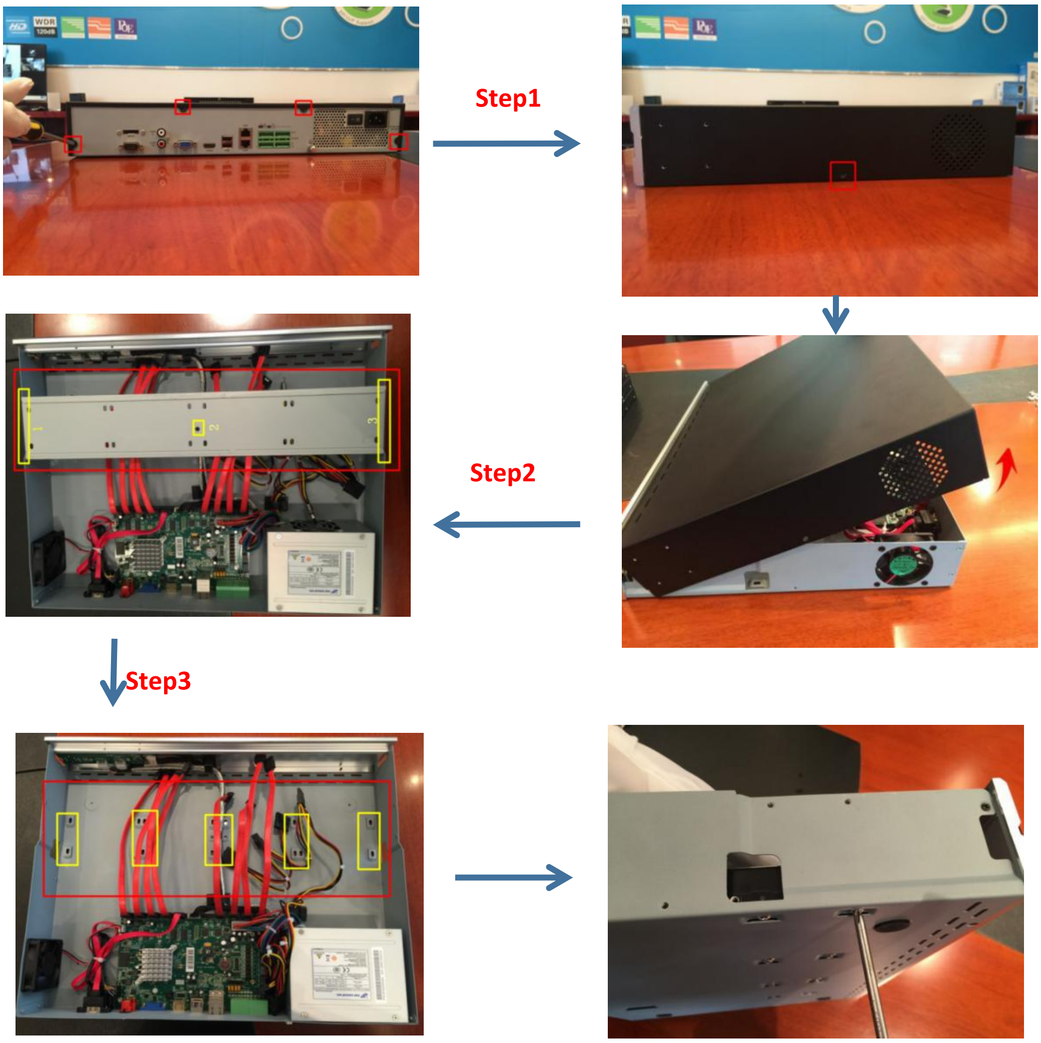
Step1. Unscrew the back and both sides' screws to open the upper lid.

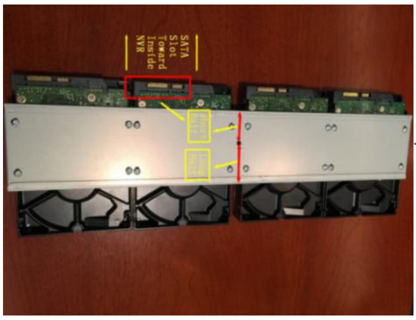
Step2. Uninstall the upper hard disk panel.

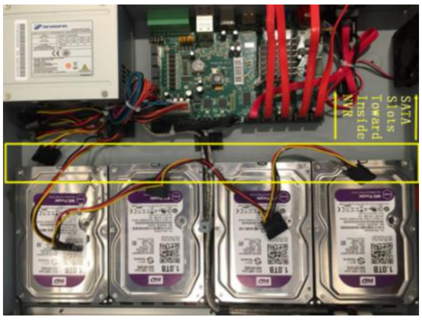
Step3. Install the hard disks into NVR with screws shown in below pictures.(SATA slots of hard disks should be toward inside NVR)

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

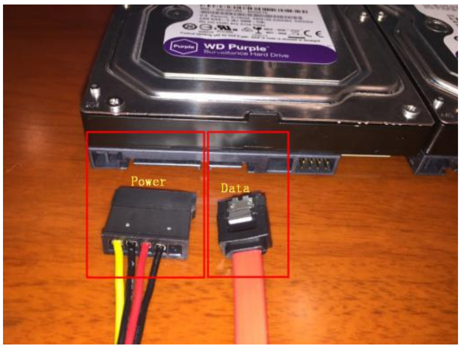
Step5. Join the data connectors to corresponding hard disk.(Check the connection by below sequence)

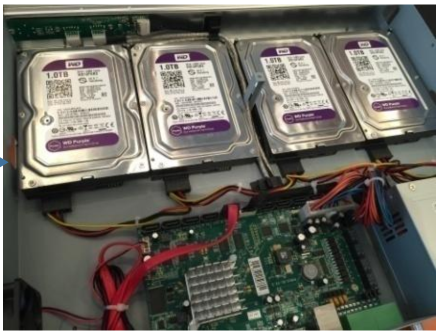




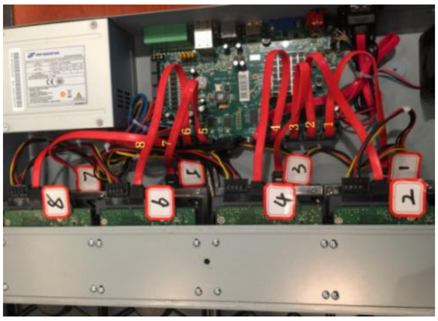


Step4





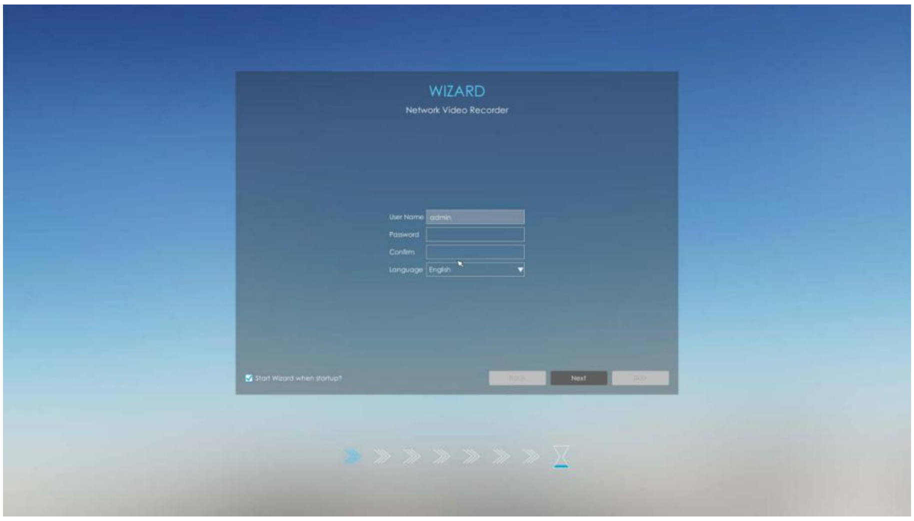
Step5



Note:

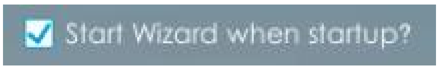
1. The SATA slots are in SHORT HALF side and the SATA slot toward inside NVR.
2. The data connector sequence of MS-N7000 series is different from MS-N8000 series'.

3. Local Operation



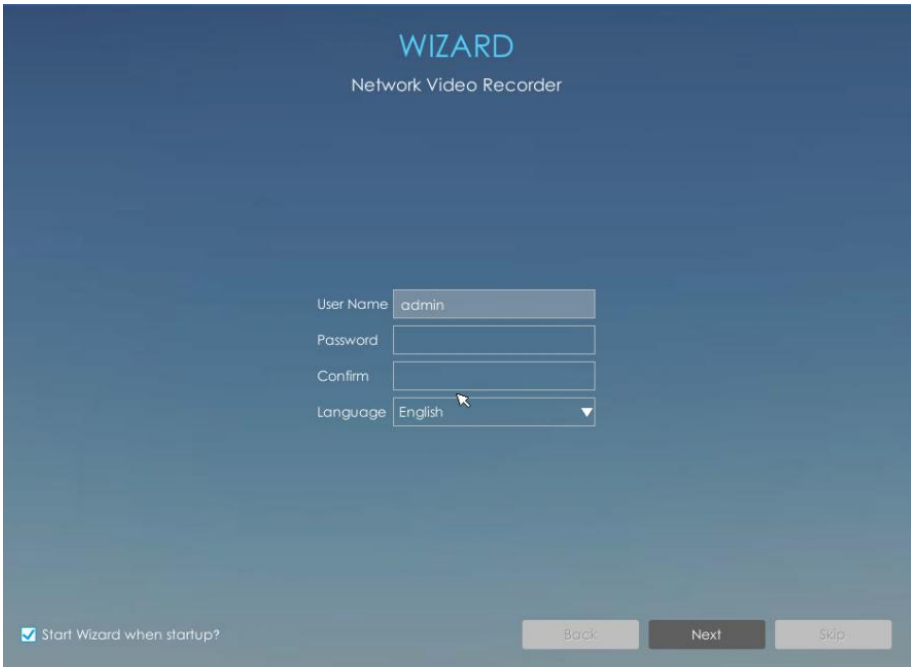
3.1 Wizard Setting

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.



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

Step 1. Set password to active admin account.



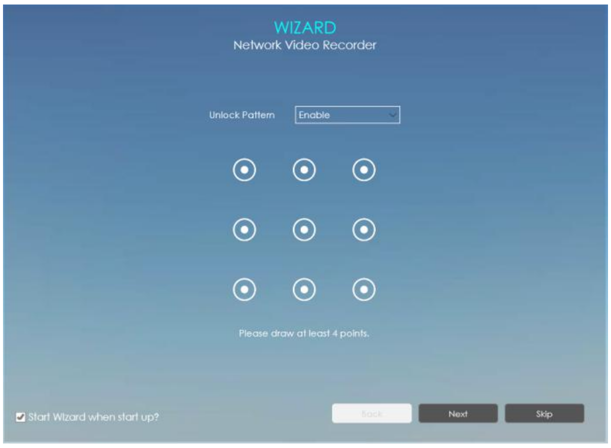
User Name: admin
Password:
Confirm:
Language: English

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.



Unlock Pattern: Enable

☑ Start Wizard when start up?

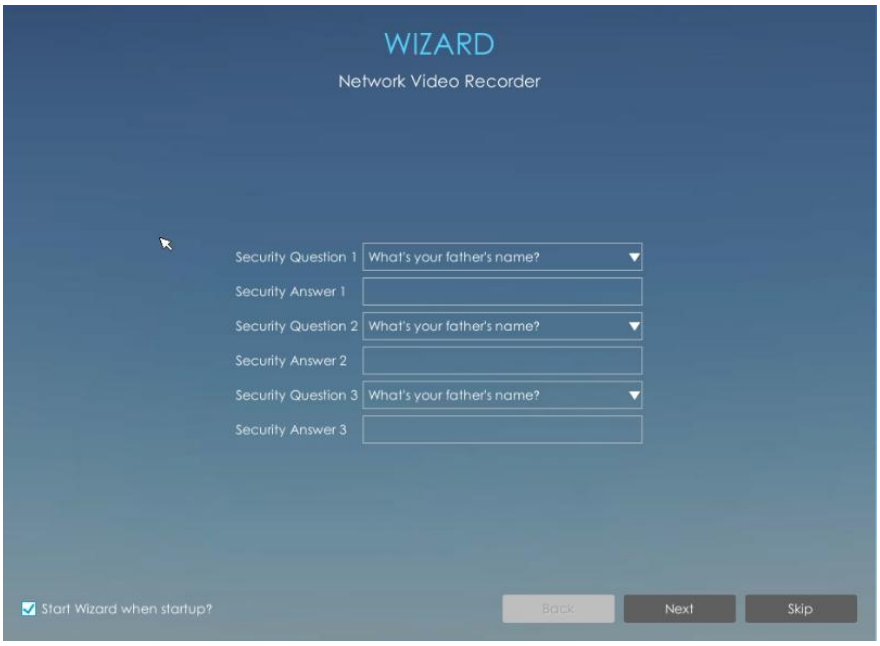
Note:

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.



Security Question 1: What's your father's name?
Security Answer 1:
Security Question 2: What's your father's name?
Security Answer 2:
Security Question 3: What's your father's name?
Security Answer 3:

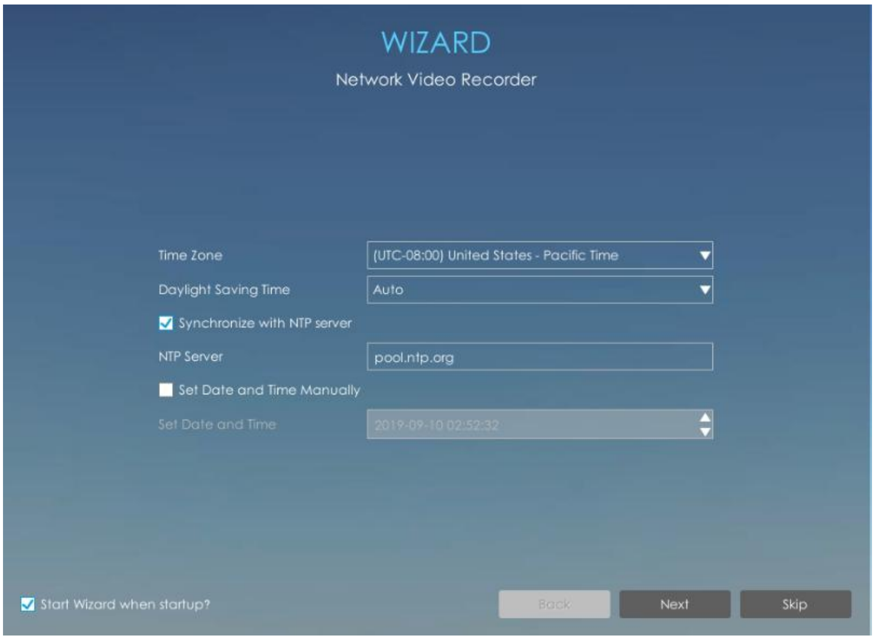
☑ Start Wizard when startup?

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.



Time Zone: (UTC-08:00) United States - Pacific Time

Daylight Saving Time: Auto

☑ Synchronize with NTP server

NTP Server: pool.ntp.org

☐ Set Date and Time Manually

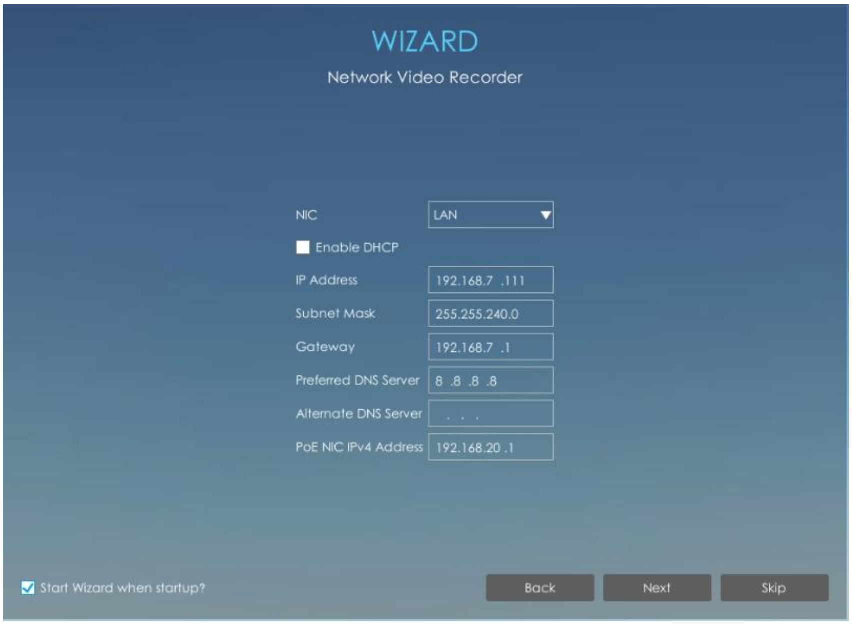
Set Date and Time: 2019-09-10 02:52:32

☑ Start Wizard when startup?

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.



NIC: LAN

☐ Enable DHCP

IP Address: 192.168.7 .111

Subnet Mask: 255.255.240.0

Gateway: 192.168.7 .1

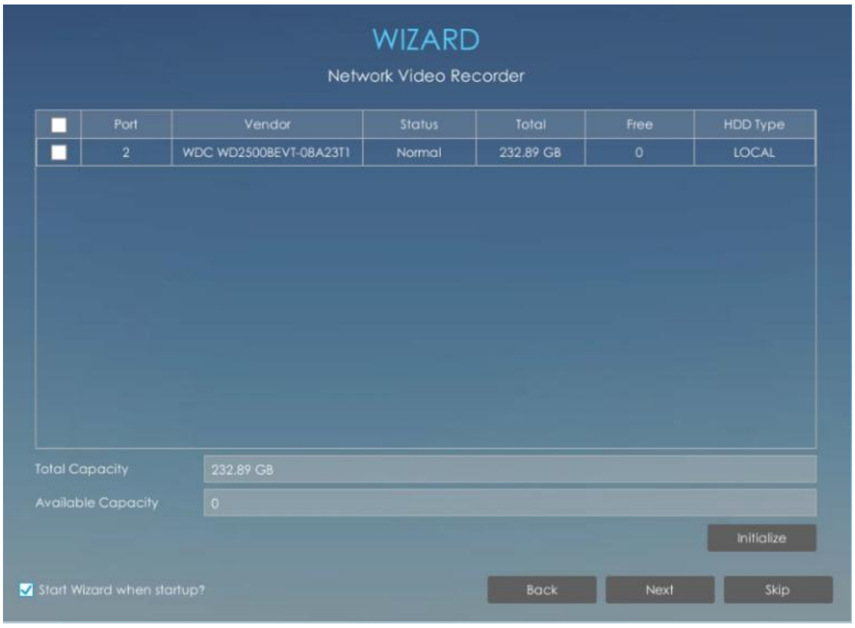
Preferred DNS Server: 8 .8 .8 .8

Alternate DNS Server: . . .

PoE NIC IPv4 Address: 192.168.20 .1

☑ Start Wizard when startup?

Step 6. Disk Management.



☐	Port	Vendor	Status	Total	Free	HDD Type
☐	2	WDC WD2500BEVT-08A23T1	Normal	232.89 GB	0	LOCAL

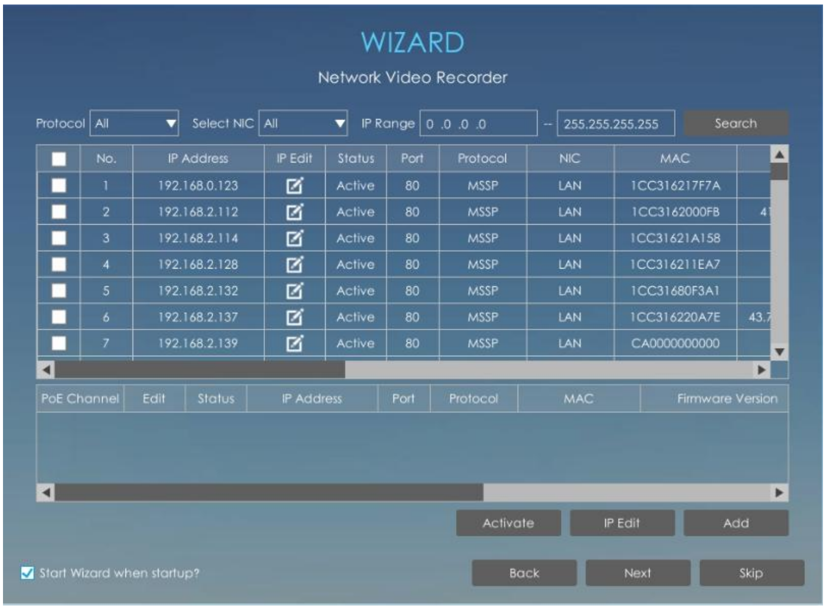
Total Capacity: 232.89 GB

Available Capacity: 0

☑ Start Wizard when startup?

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.



Protocol: All

Select NIC: All

IP Range: 0 .0 .0 .0 -- 255.255.255.255

☐	No.	IP Address	IP Edit	Status	Port	Protocol	NIC	MAC
☐	1	192.168.0.123	✎	Active	80	MSSP	LAN	1CC316217F7A
☐	2	192.168.2.112	✎	Active	80	MSSP	LAN	1CC3162000FB
☐	3	192.168.2.114	✎	Active	80	MSSP	LAN	1CC31621A158
☐	4	192.168.2.128	✎	Active	80	MSSP	LAN	1CC316211EA7
☐	5	192.168.2.132	✎	Active	80	MSSP	LAN	1CC31680F3A1
☐	6	192.168.2.137	✎	Active	80	MSSP	LAN	1CC316220A7E
☐	7	192.168.2.139	✎	Active	80	MSSP	LAN	CA0000000000

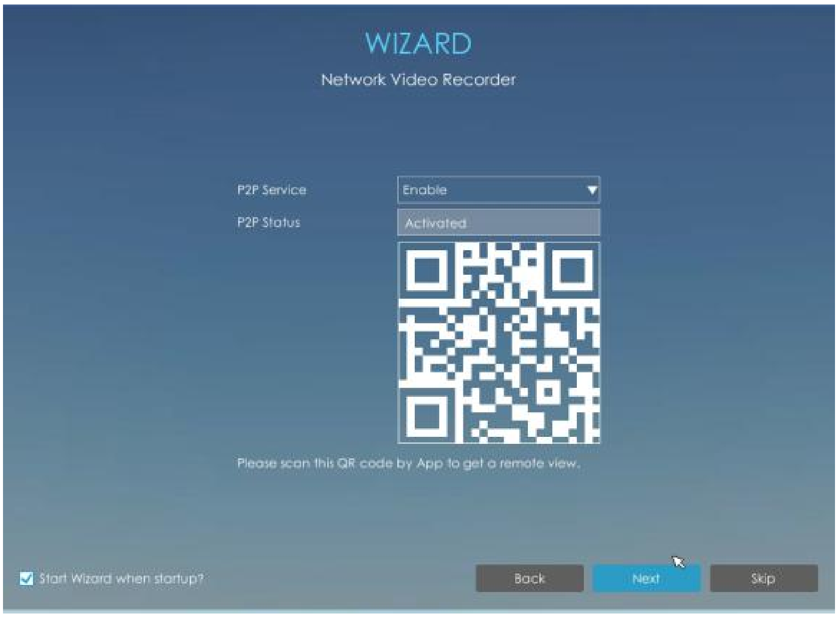
PoE Channel	Edit	Status	IP Address	Port	Protocol	MAC	Firmware Version

☑ Start Wizard when startup?

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



P2P Service: Enable

P2P Status: Activated

Please scan this QR code by App to get a remote view.

☑ Start Wizard when startup?

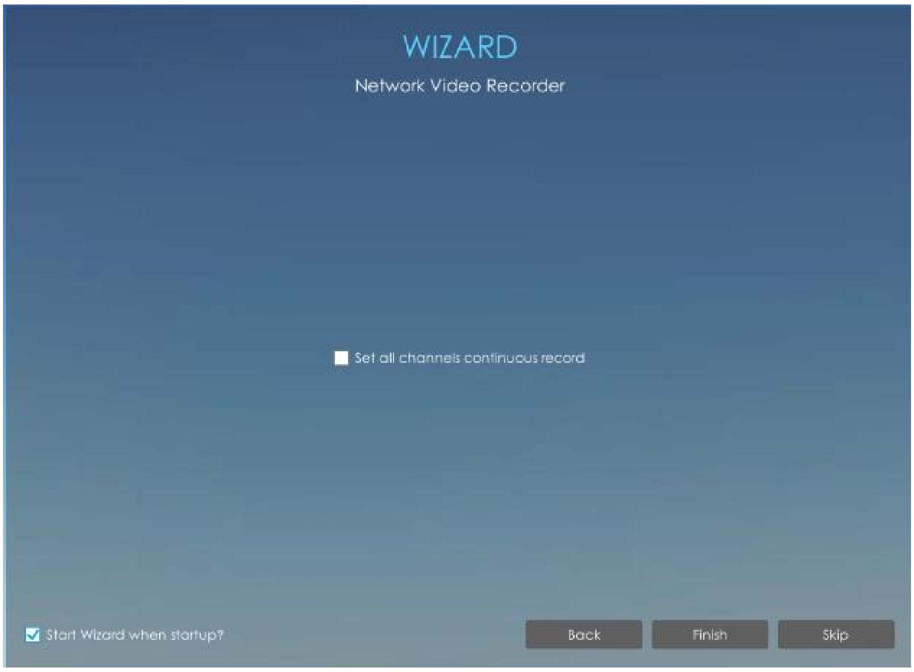
Select Enable to allow P2P Service.Then scan the QR code through M-sight Pro APP to get a remote and real-time view.

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 ☐.



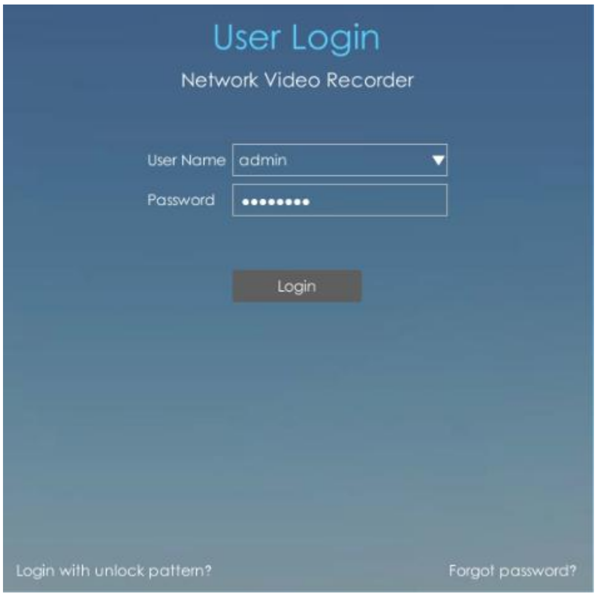
☐ Set all channels continuous record

☑ Start Wizard when startup?

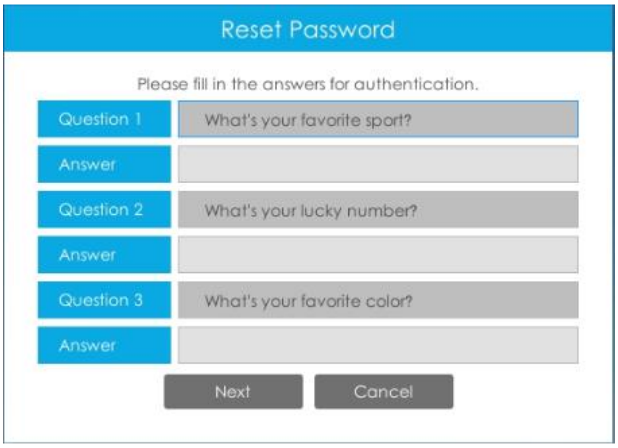
Step 10. Login

There are two ways to login the system.

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



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



Reset Password

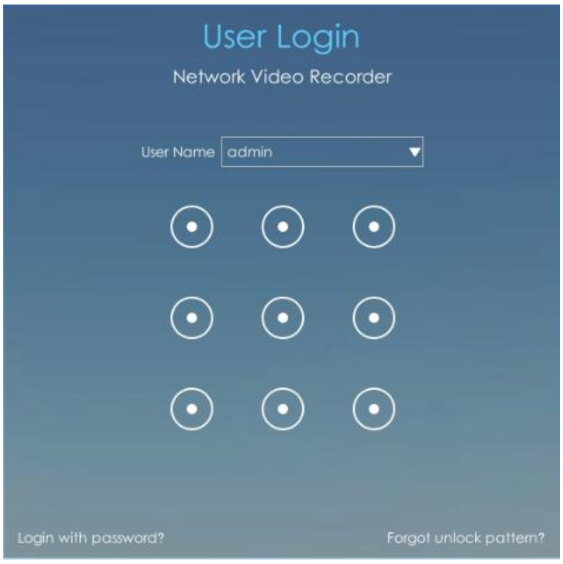
Please fill in the answers for authentication.

Question 1	What's your favorite sport?
Answer	
Question 2	What's your lucky number?
Answer	
Question 3	What's your favorite color?
Answer	

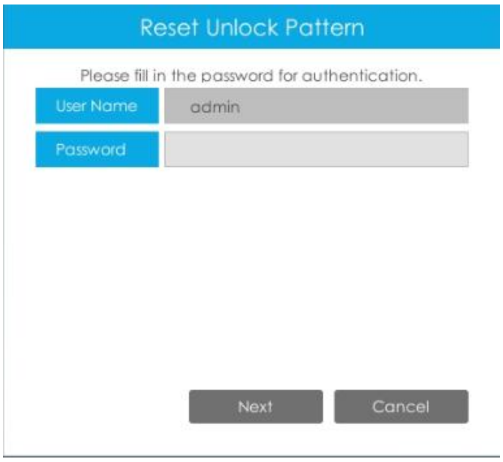
Note:

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

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



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



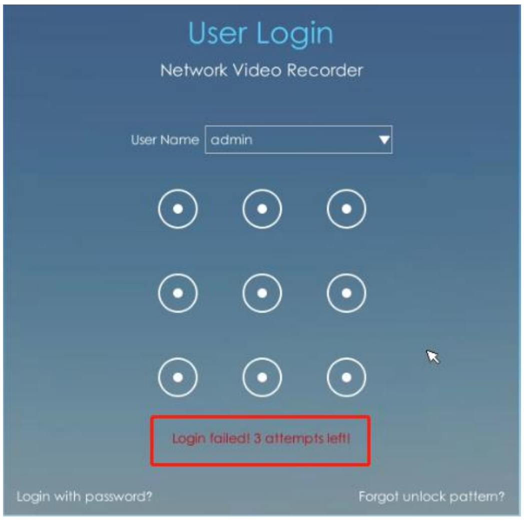
Please fill in the password for authentication.

User Name: admin

Password:

Note:

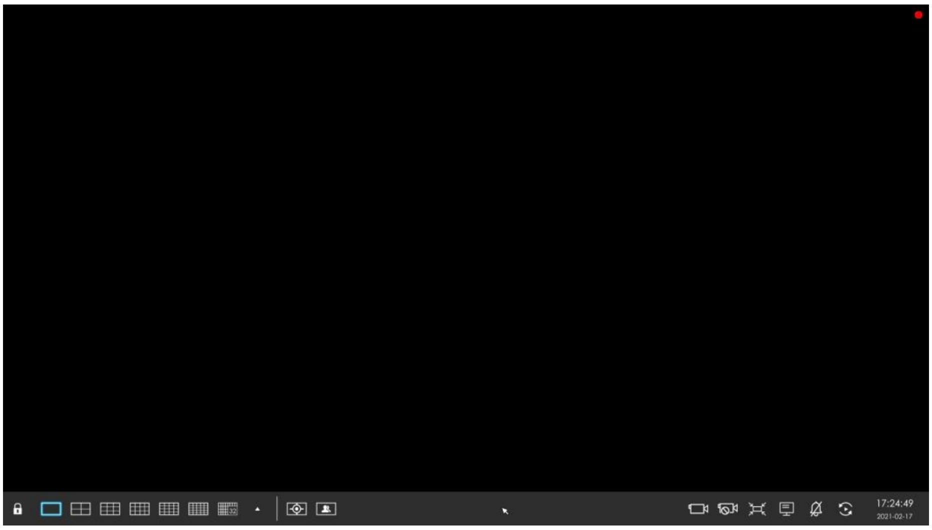
When users enter the wrong password for four times, the login locking will be triggered. After being locked, the same user should wait for five minutes to log in again.



User Name: admin

Login failed! 3 attempts left!

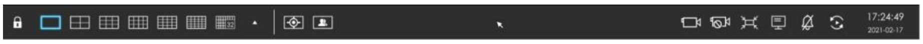
3.2 Live View



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

Note:

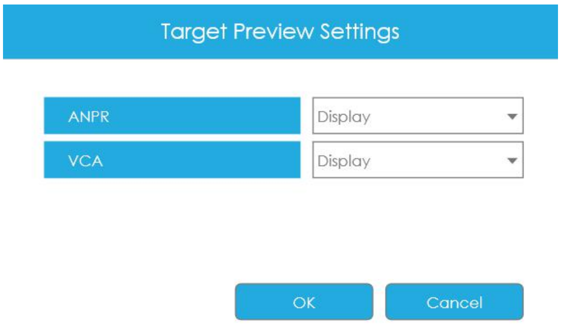
Tool Bar won't be hidden if there is event notification.



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: ①Support displaying Event Detection Region and the detection frame to track the target when the channel is full screen on Live View interface. ②Make sure your camera model is MS-CXXXX-XXC, and the camera's version should be 4X.7.0.77 or above.		The Do Not Disturb function only turns of the notification of the Alarm Actions (for all displaying channels) Note: Do Not Disturb function is not valid for changing corresponding settings.
	Sequence	14:43:53 2020-10-15	Time information, which can be set to display consistently or synchronize with the Toolbar i Display Settings.

Target Mode:

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

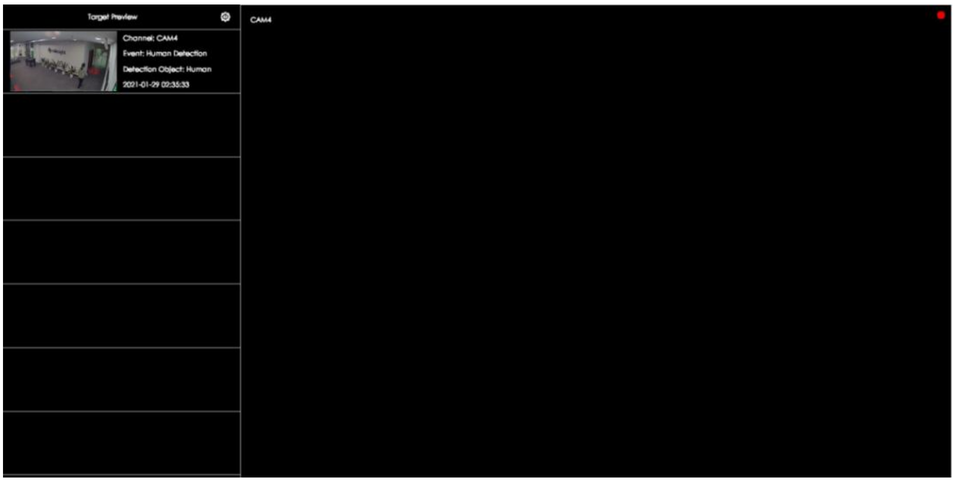


ANPR: Display
VCA: Display

Note:

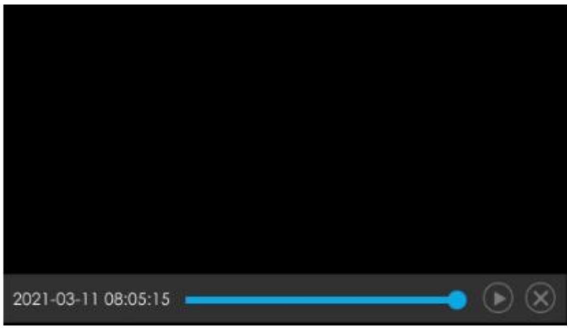
- Make sure your camera's version is 4X.7.0.77 or above so that the corresponding results for camera can be displayed in the Target Mode on the NVR side.
- Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object configuration.

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.



Channel: CAM4
Event: Human Detection
Detection Object: Human
2021-01-29 02:35:33

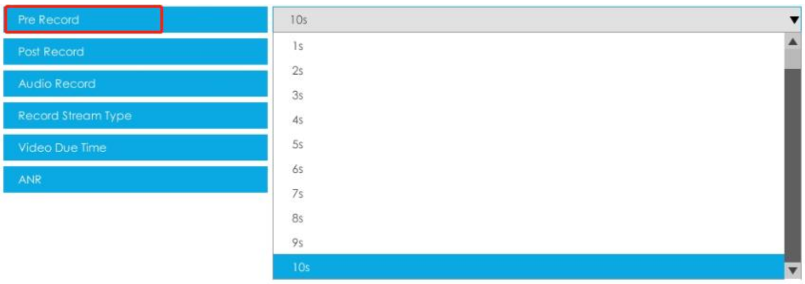
You can click the corresponding record to check the latest X seconds (10s~20s) video.



Note:

1.X = 10 + Pre Record Time

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

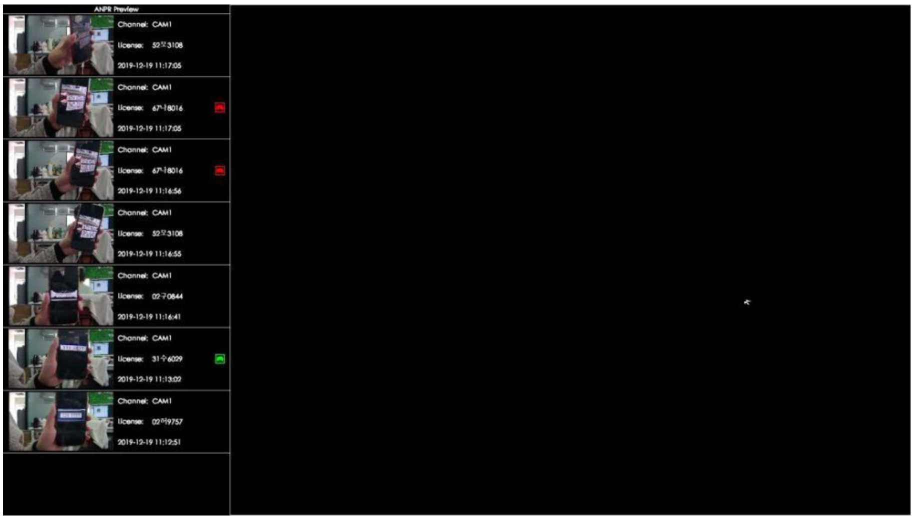


2.Ensure that there is available HDD on NVR and correct record settings is made, so that you can check the record on live view.

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



Channel: CAM1
License: 52모3108
2019-12-19 11:17:05

Channel: CAM1
License: 67나8016 🟥
2019-12-19 11:17:05

Channel: CAM1
License: 67나8016 🟥
2019-12-19 11:16:56

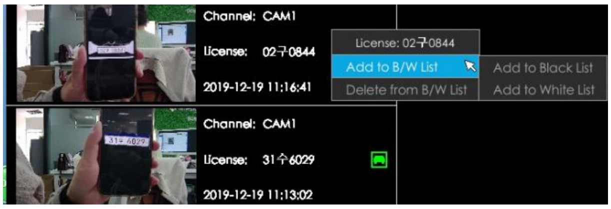
Channel: CAM1
License: 52모3108
2019-12-19 11:16:55

Channel: CAM1
License: 02구0844
2019-12-19 11:16:41

Channel: CAM1
License: 31수6029 🟩
2019-12-19 11:13:02

Channel: CAM1
License: 02머9757
2019-12-19 11:12:51

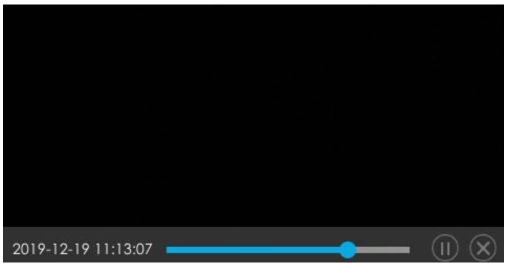
No plate type will be shown if the license plate does not exist in Black/White list. However, you can right click the license plate information to quick add it to Black/White list or delete it from Black/White list.



Channel: CAM1
License: 02구0844
2019-12-19 11:16:41

Channel: CAM1
License: 31수6029 🟩
2019-12-19 11:13:02

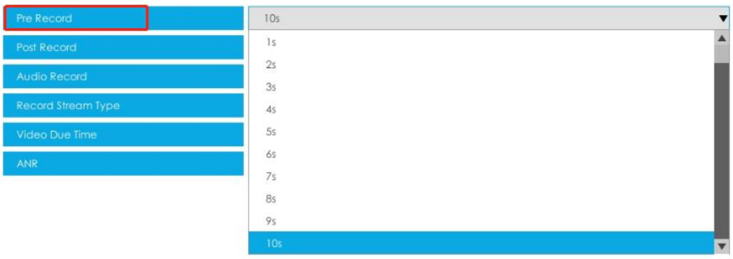
Besides, you can click the license plate information to check the latest X seconds (10s~20s) video.



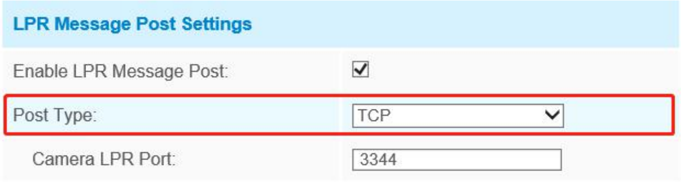
Note:

1. X = 10 + Pre Record Time

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



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.



LPR Message Post Settings

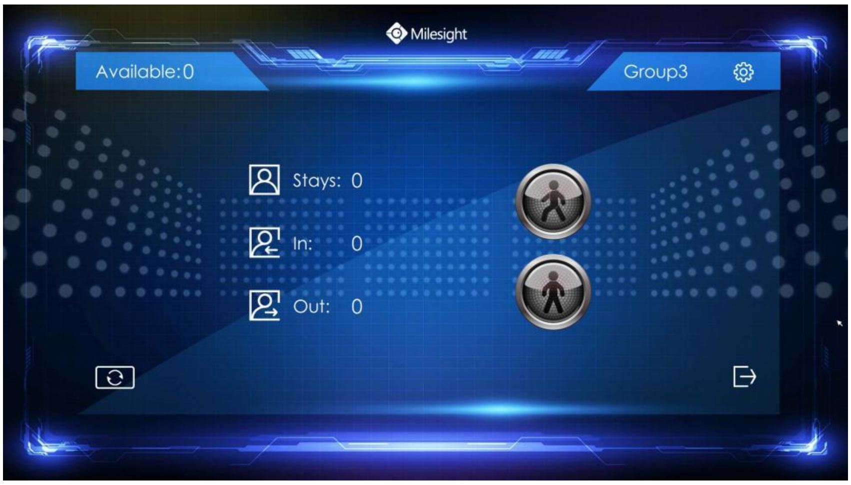
Enable LPR Message Post: ☑

Post Type: TCP

Camera LPR Port: 3344

Occupancy Mode:

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



Available:0

Group3

Stays: 0

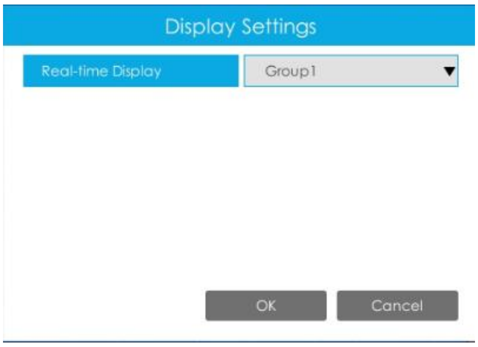
In: 0

Out: 0

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

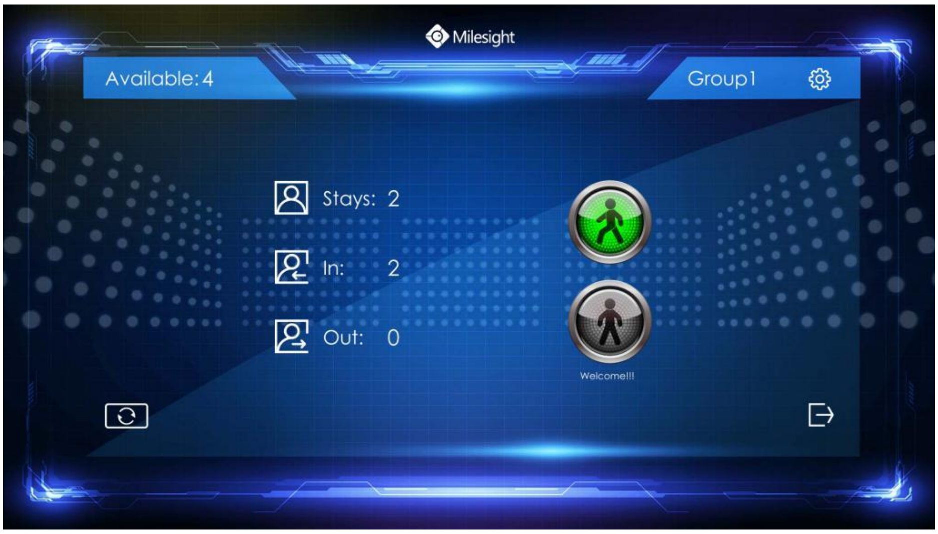
Stays/In/Out: Display the number of people staying, entering and leaving in real time. (Stays value = In value - Out value, the minimum number of people staying is 0)

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

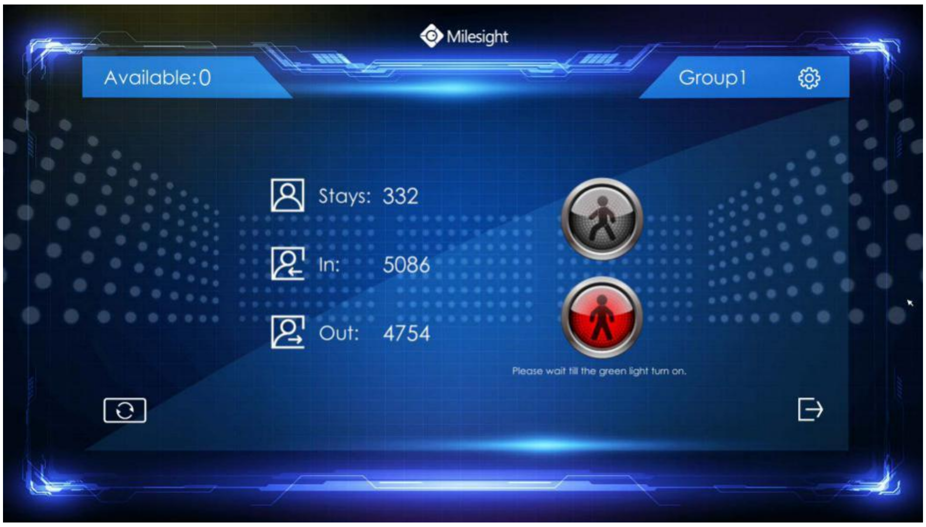


There are two traffic light states:

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



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.



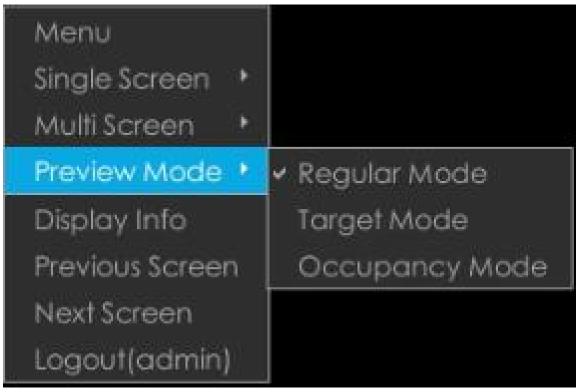
Reset: Reset the Group counting data in the Occupancy Live View interface.

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

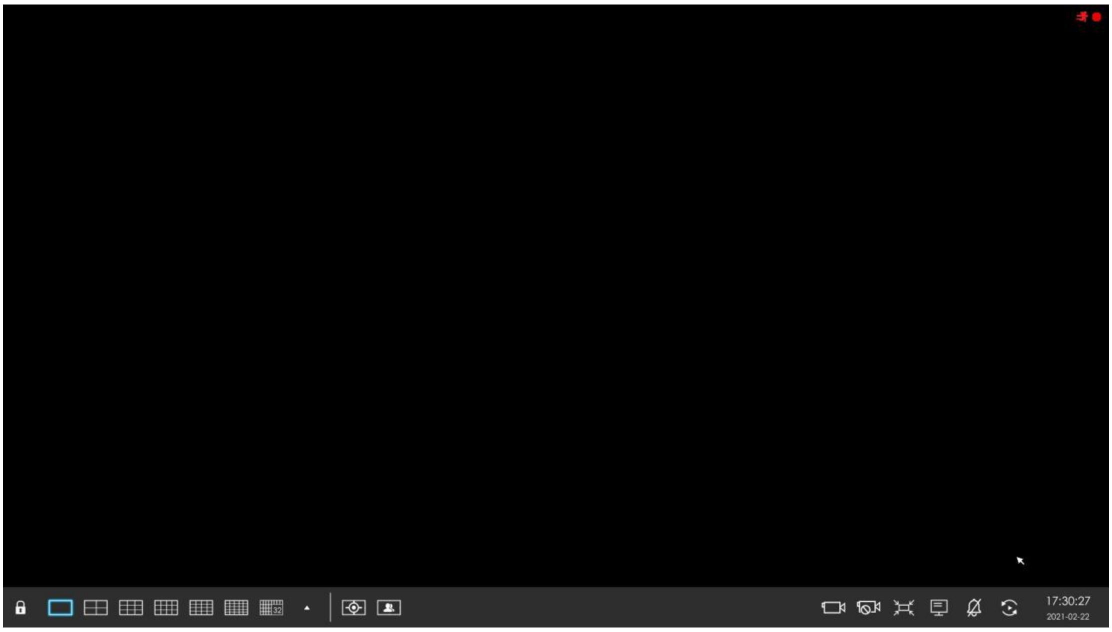
Right click in the Live View and the quick operation menu pops up.



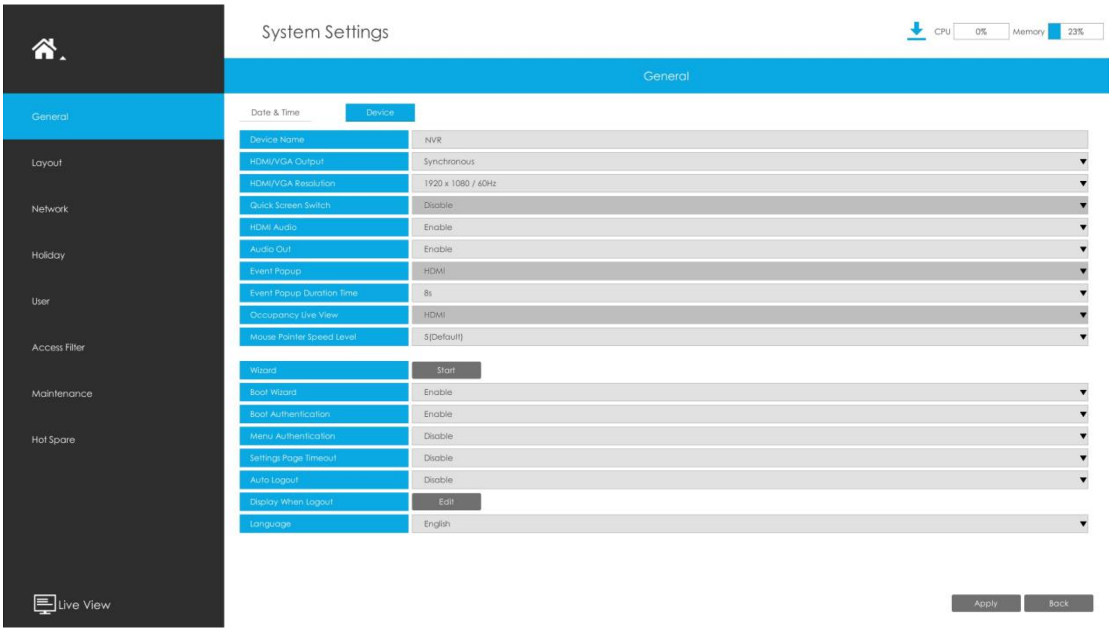
Item	Descriptions
Menu	Display Main Menu
Single Screen	The selected channel will be full screen. You could go back to previous screen layout by double clicking the channel
Sub Screen Ctrl	Switch to sub screen to operate (Only for Pro NVR 7000 Series, PoE NVR 7000 Series and Pro NVR 8000 Series)
Multi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



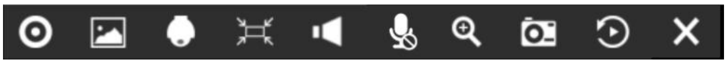
2. For the Sub Screen Ctrl function of Pro/PoE NVR 7000 Series, you can choose whether these two outputs are independent or synchronous. And if you change the option, the modification will take effect after rebooting.



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

Quick Operation for single channel

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



Icons	Descriptions	Icons	Descriptions
◉	Manually record	🖼	Image Configure
●	PTZ control	⤢	Original/Resize the image
🔈	Audio on/off	🎙	Two-way Audio
🔍	Digital zoom	📷	Snapshot manually
⟳	Instant Playback	▬	Fisheye Mode
✕	Close menu		

Note:

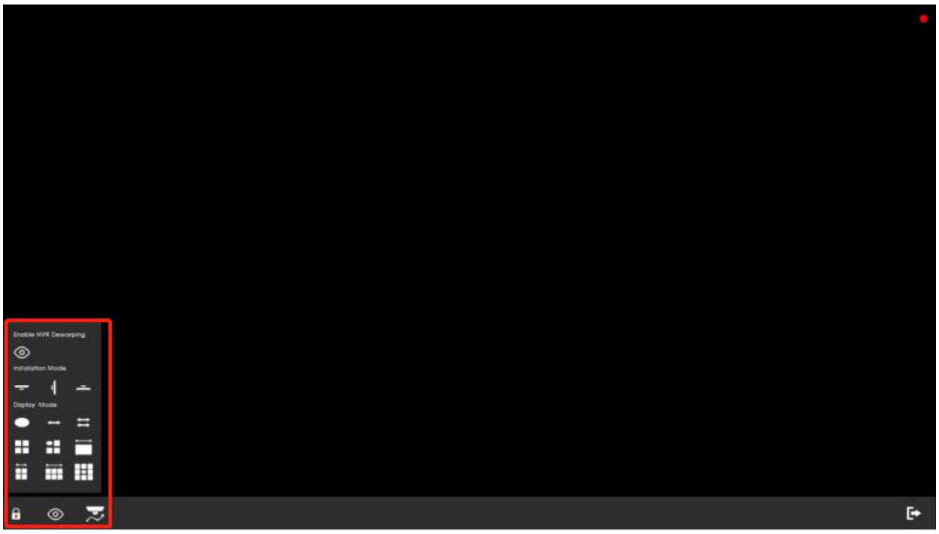
You can right-click to exit the instant playback.

Fisheye Mode:

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

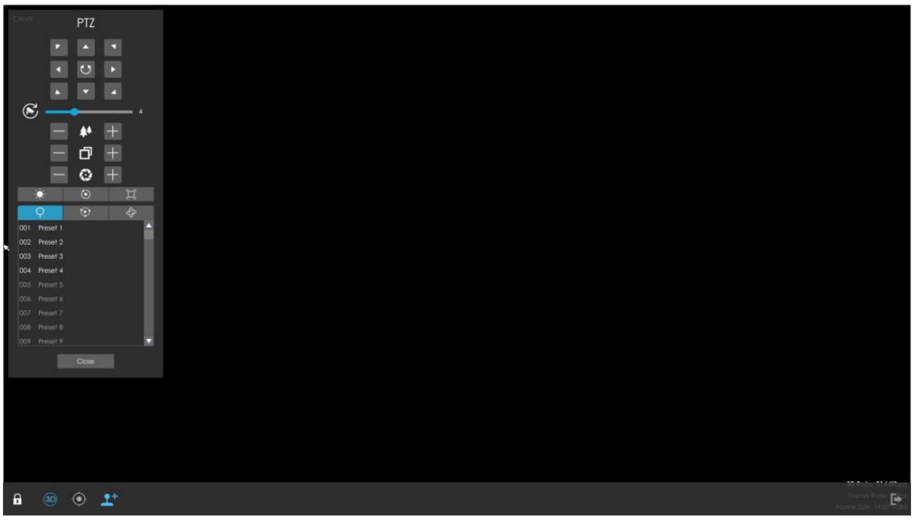
Fisheye Auto Tracking: Comprehensive Fisheye Auto Tracking avoids any details missing by performing the digital Pan/Tilt/Zoom to track the moving objects automatically.

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

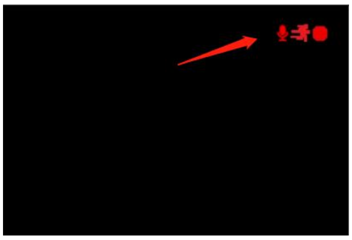
🔒	Lock/Unlock the tool bar	3D	Enable/Disable 3D positioning
⊙	PTZ Manual Tracking	🕹	Show/Hide the PTZ control panel

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.

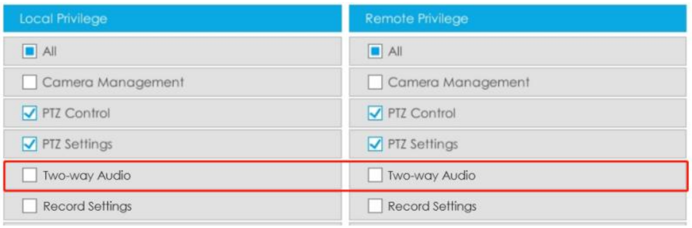
Two-way Audio:

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.

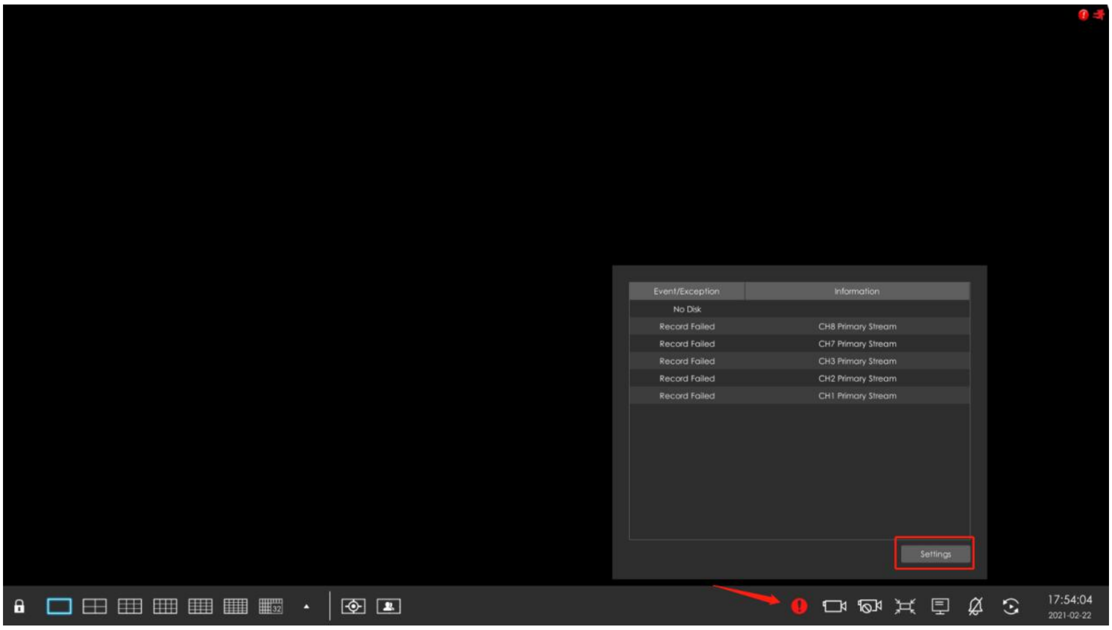


Local Privilege	Remote Privilege
■ All	■ All
☐ Camera Management	☐ Camera Management
☑ PTZ Control	☑ PTZ Control
☑ PTZ Settings	☑ PTZ Settings
☐ Two-way Audio	☐ Two-way Audio
☐ Record Settings	☐ Record Settings

Event Notification:

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

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

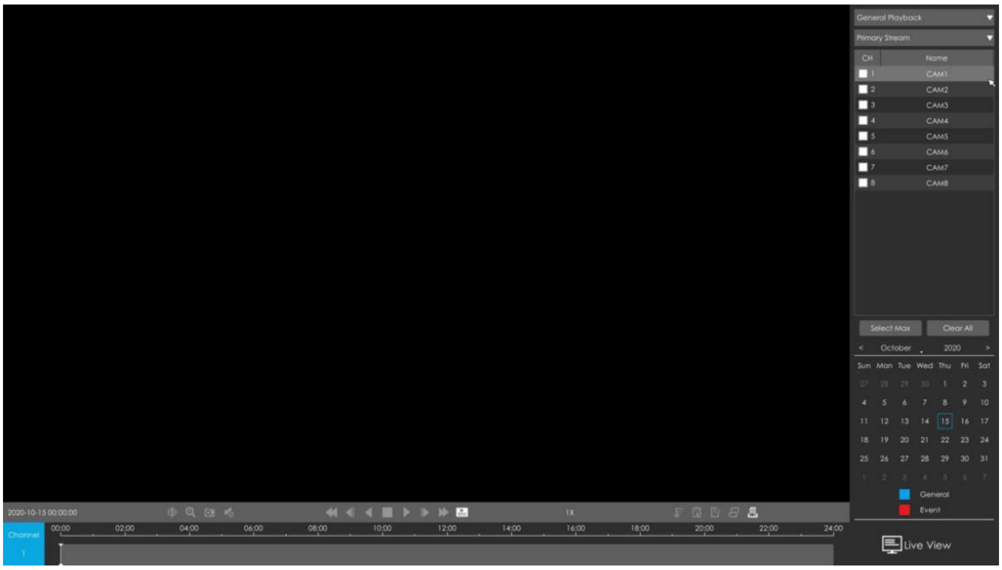


Event/Exception	Information
No Disk	
Record Failed	CH8 Primary Stream
Record Failed	CH7 Primary Stream
Record Failed	CH3 Primary Stream
Record Failed	CH2 Primary Stream
Record Failed	CH1 Primary Stream

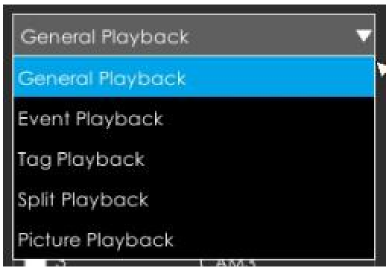
3.3 Playback

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

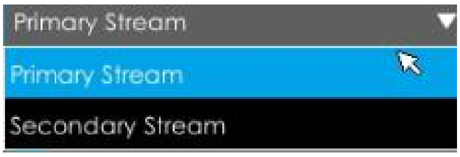


Step1. Select General Playback as playback type.



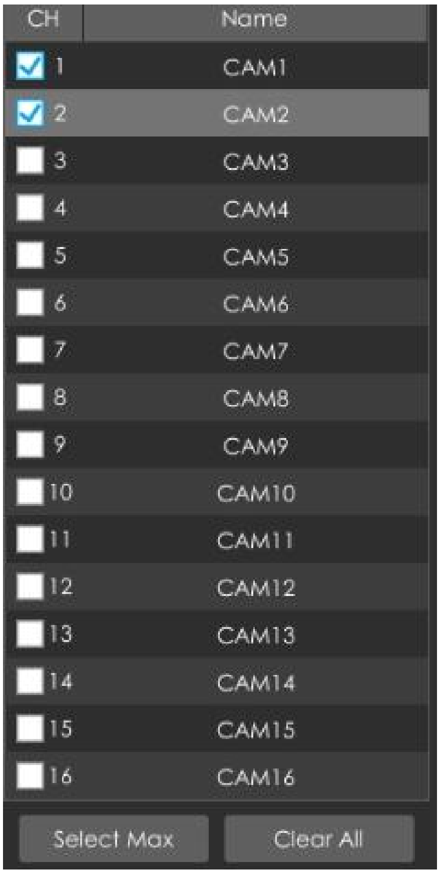
Step2. Select Stream Type.

Primary Stream and Secondary Stream are available.



Step3. Select channel.

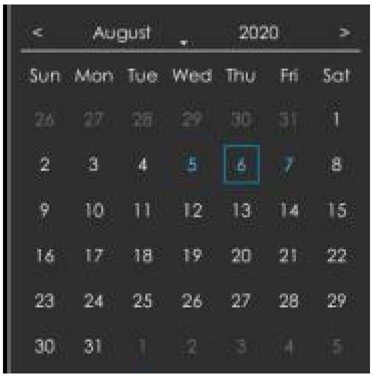
Select channels you want to do playback. User can click Select Max to select maximum channel for playback, 9 channels for Milesight Mini (PoE) NVR Series while 16 channels for other NVR. Layout of playback will be automatically adjusted according to the amount of the selected channels.



CH	Name
☑ 1	CAM1
☑ 2	CAM2
☐ 3	CAM3
☐ 4	CAM4
☐ 5	CAM5
☐ 6	CAM6
☐ 7	CAM7
☐ 8	CAM8
☐ 9	CAM9
☐ 10	CAM10
☐ 11	CAM11
☐ 12	CAM12
☐ 13	CAM13
☐ 14	CAM14
☐ 15	CAM15
☐ 16	CAM16

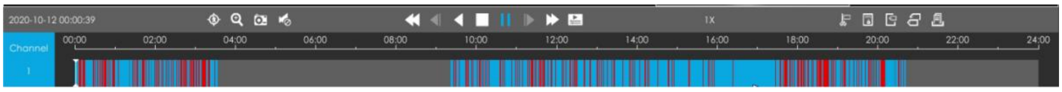
Step4. Select date.

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



<	August		2020			>
Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	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	29
30	31	1	2	3	4	5

Video Playback Tool Bar Description



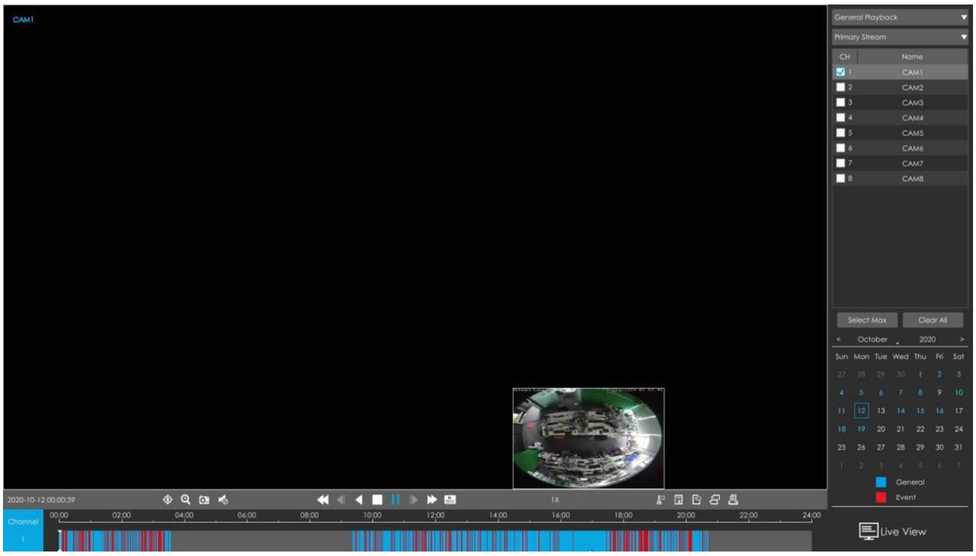
Every channel got their own file bar, and there is only one file bar matching with the selected channel. The tool bar can display multiple types record. It shows that in this record period what kind of event has happened. The symbolic meaning of each color is:

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
⌖	Smart Search	🔍	Digital zoom
📷	Snapshot	🔇	Audio on
🔈	Audio off	⏪	Speed down

⏩	Speed up	◀|	Step reverse
|▶	Step forward	◀	Rewind
▶	Play	■	Stop
⏸	Pause	✂	Timeline cutting
🔒	Lock video file		Quick tag
	Custom tag		File Management
+	Zoom in time bar	—	Zoom out time bar
	Best Decoding Performance		Smart Play Speed

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

Lock Video: Once the video is locked, the whole file where the video located won't be overwritten. Milesight NVRs support the display of locked icon on the playback bar so that the corresponding files in the playback page can be identified directly. You can also change the lock status in Retrieve interface.

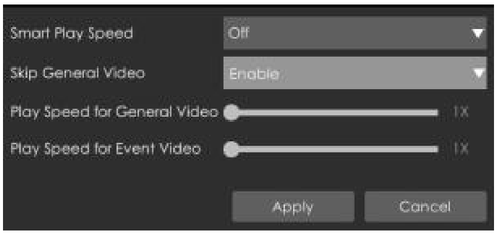
Tag Video: Quick Tag and Custom Tag are available for tag operation in Playback interface. Milesight NVRs support the display of tagged icon on the playback bar so that the corresponding files in the playback page can be identified directly. You can backup video via tag in Retrieve interface or do tag playback in Playback interface.

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

Note:

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

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



Smart Play Speed: Off

Skip General Video: Enable

Play Speed for General Video: 1X

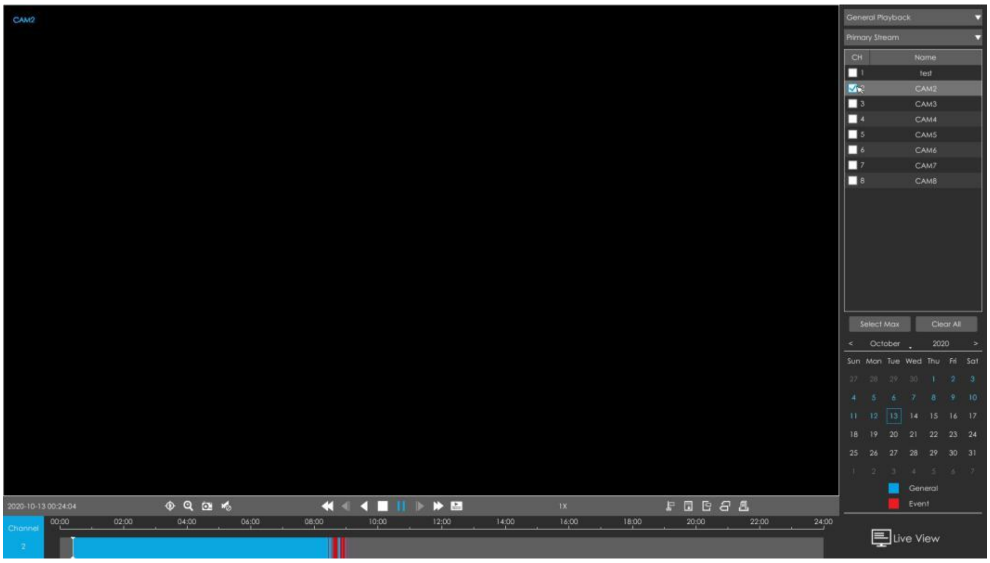
Play Speed for Event Video: 1X

Note:

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

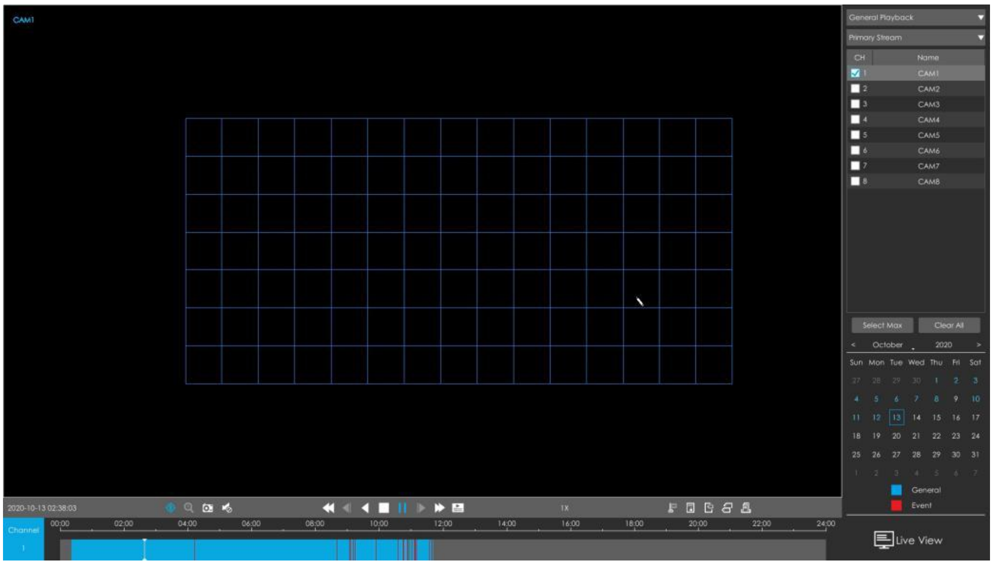
Smart Search: NVR can search out all relevant motion events and play all the event recording files of the selected area. Here are the steps of how to use the function.

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



(2) Click to enable Smart Search.

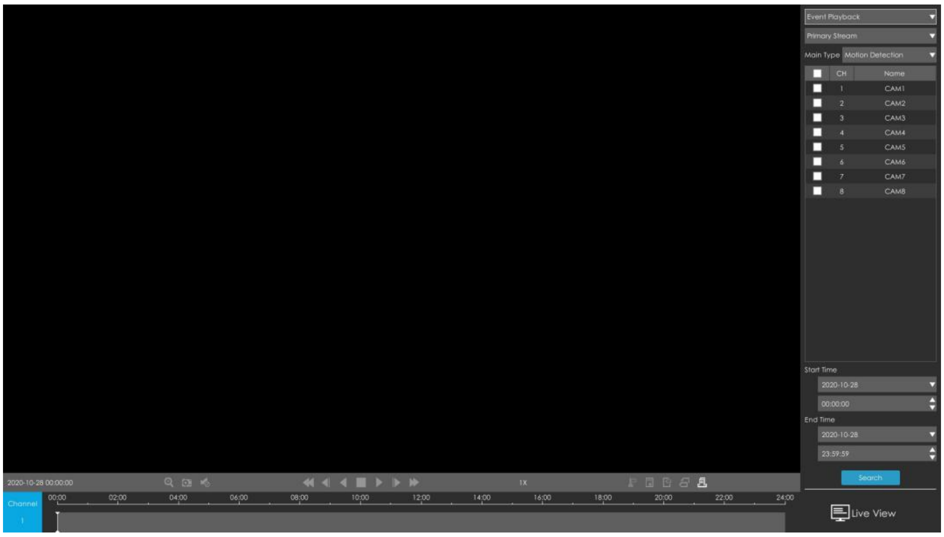
(3) Draw an area in the frame and NVR would play the video files after searching out all motion events of the area.



Note:

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

3.3.2 Event Playback



Event Playback

Primary Stream

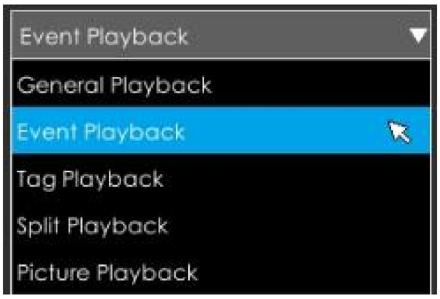
Main Type: Motion Detection

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

Start Time: 2020-10-28 00:00:00

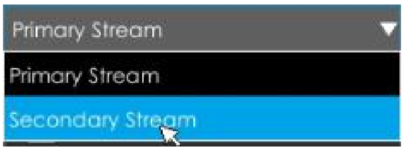
End Time: 2020-10-28 23:59:59

Step 1. Select Event Playback as playback type.



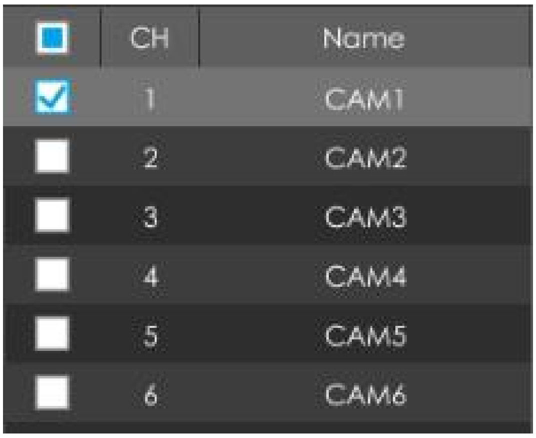
Step 2. Select Stream Type.

Primary Stream and Secondary Stream are available.



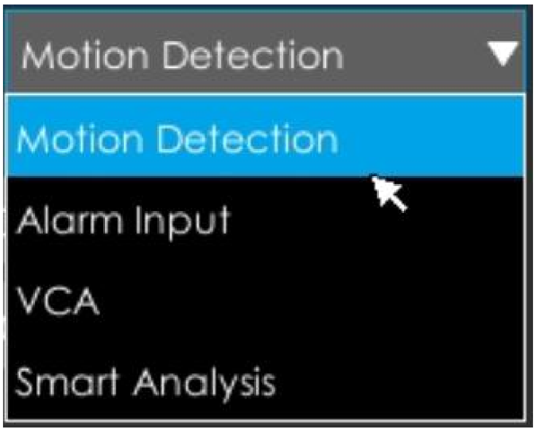
Step 3. Select channel.

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



■	CH	Name
☑	1	CAM1
☐	2	CAM2
☐	3	CAM3
☐	4	CAM4
☐	5	CAM5
☐	6	CAM6

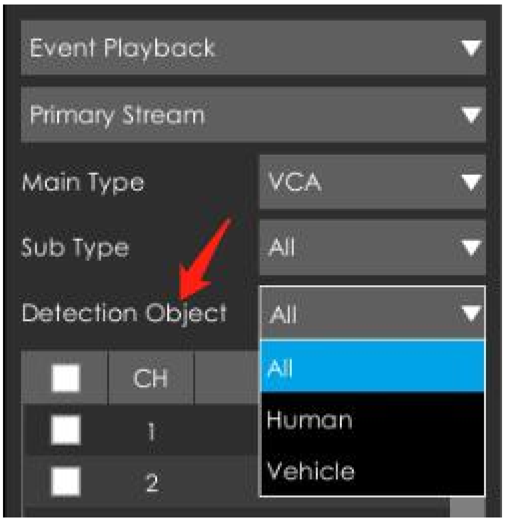
Step 4. Select Event Type.



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

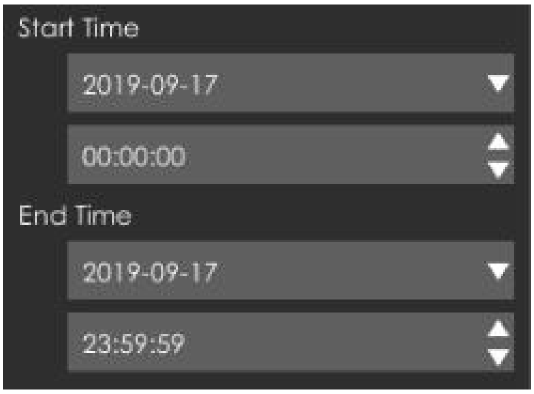
The VCA events which support the human/vehicle detection object function are:

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



Event Playback
Primary Stream
Main Type: VCA
Sub Type: All
Detection Object: All

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



Start Time

2019-09-17

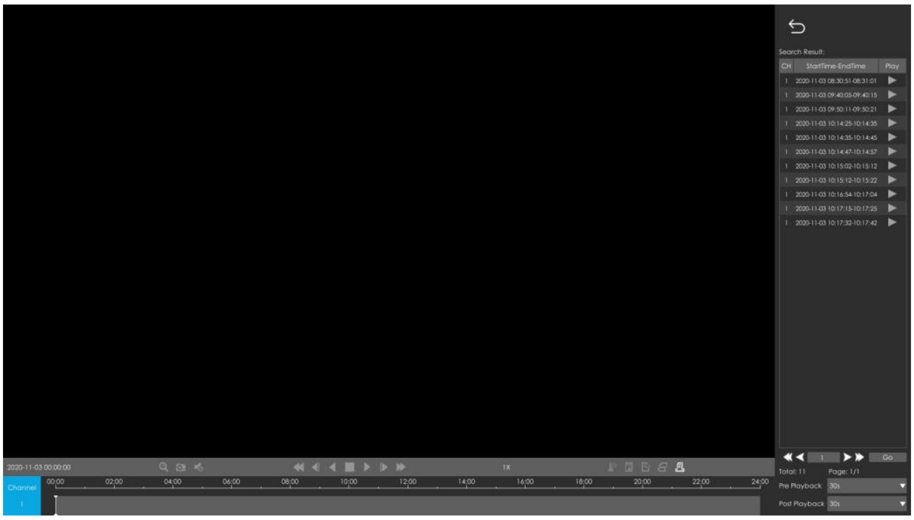
00:00:00

End Time

2019-09-17

23:59:59

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



Search Result:

CH	StartTime-EndTime	Play
1	2020-11-03 08:30:51-08:31:01	▶
1	2020-11-03 09:40:05-09:40:15	▶
1	2020-11-03 09:50:11-09:50:21	▶
1	2020-11-03 10:14:25-10:14:35	▶
1	2020-11-03 10:14:35-10:14:45	▶
1	2020-11-03 10:14:47-10:14:57	▶
1	2020-11-03 10:15:02-10:15:12	▶
1	2020-11-03 10:15:12-10:15:22	▶
1	2020-11-03 10:16:54-10:17:04	▶
1	2020-11-03 10:17:15-10:17:25	▶
1	2020-11-03 10:17:32-10:17:42	▶

Total: 11 Page: 1/1

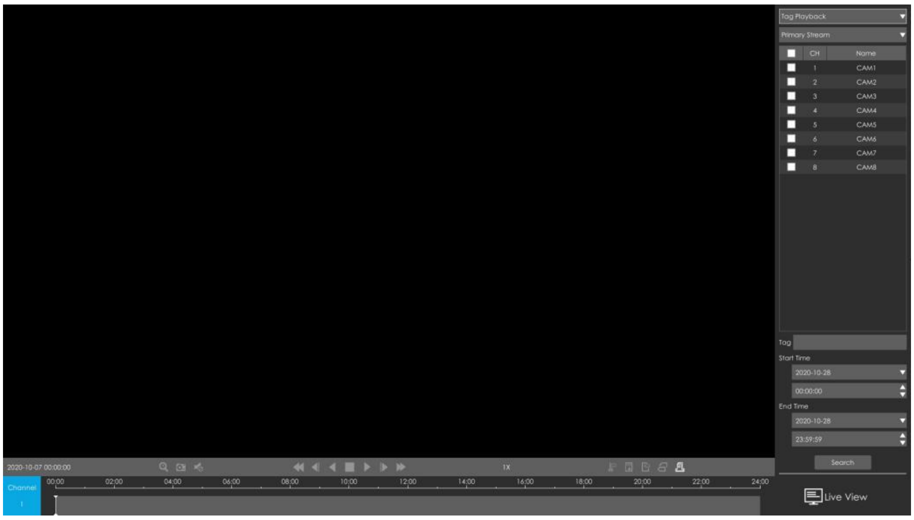
Pre Playback 30s

Post Playback 30s

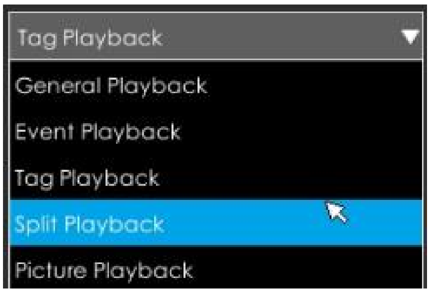
2020-11-03 00:00:00

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

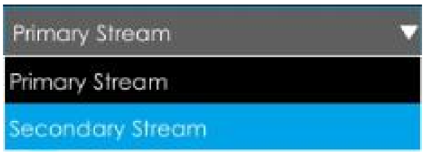


Step 1. Select Tag Playback as playback type.



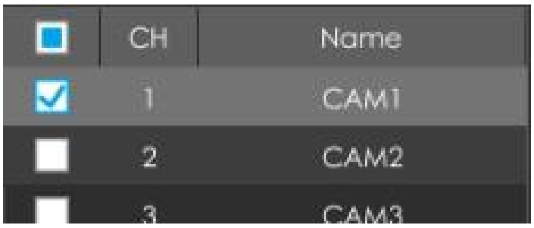
Step 2. Select Stream Type.

Primary Stream and Secondary Stream are available.

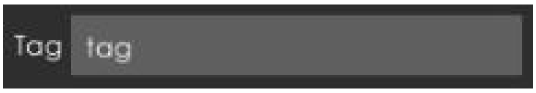


Step 3. Select channel.

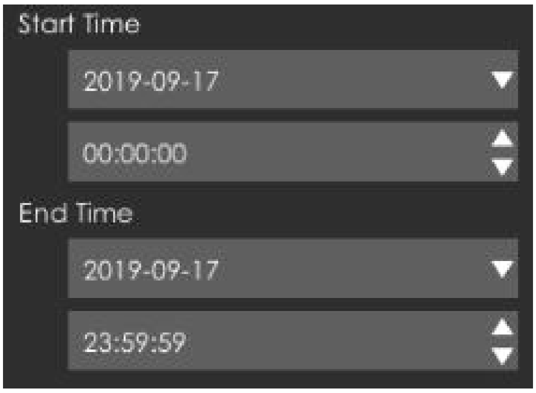
Select channels you want to do playback. Layout of playback will be automatically adjusted according to the amount of the selected channels.



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



Step 5: Select Start Time and End Time.



Start Time

2019-09-17

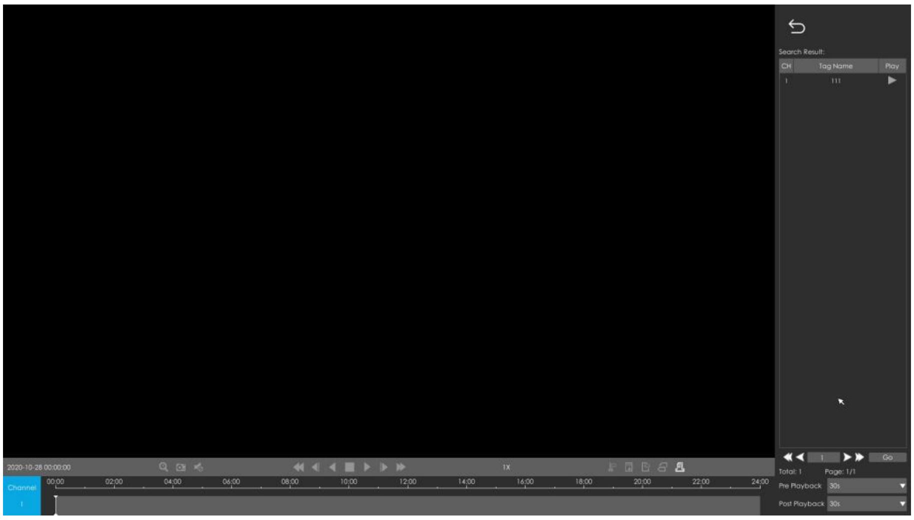
00:00:00

End Time

2019-09-17

23:59:59

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



Search Result:

CH	Tag Name	Play
1	111	▶

Total: 1 Page: 1/1

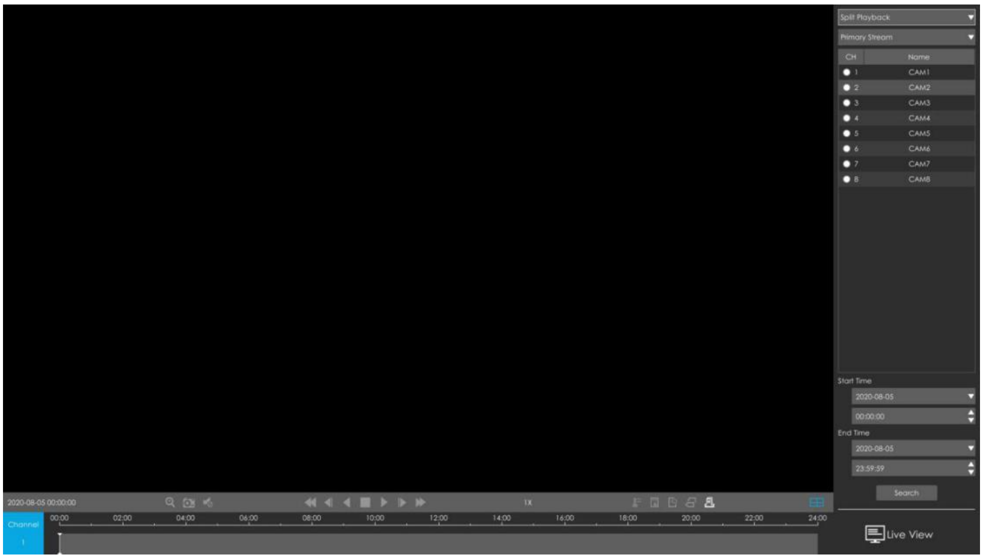
Pre Playback: 30s

Post Playback: 30s

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.



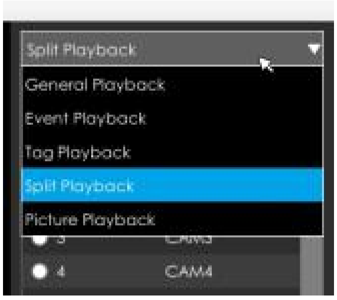
Split Playback

Primary Stream

Start Time 2020-08-05 00:00:00

End Time 2020-08-05 23:59:59

Step 1. Select Split Playback as playback type.

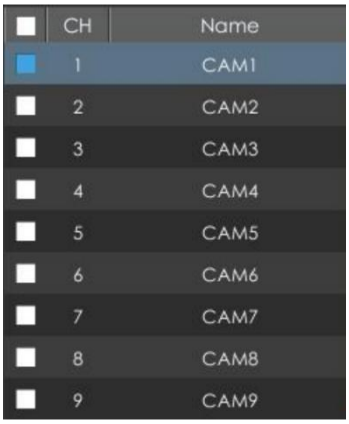


Step 2. Select Stream Type.

Primary Stream and Secondary Stream are available.

Step 3. Select channel.

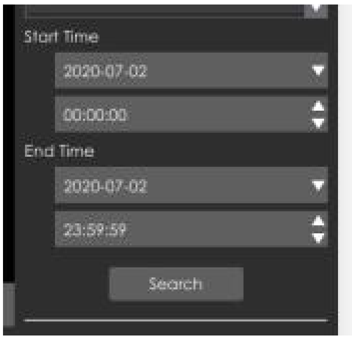
Select a channel you want to do play back. You are allowed to select only one channel at one time.



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

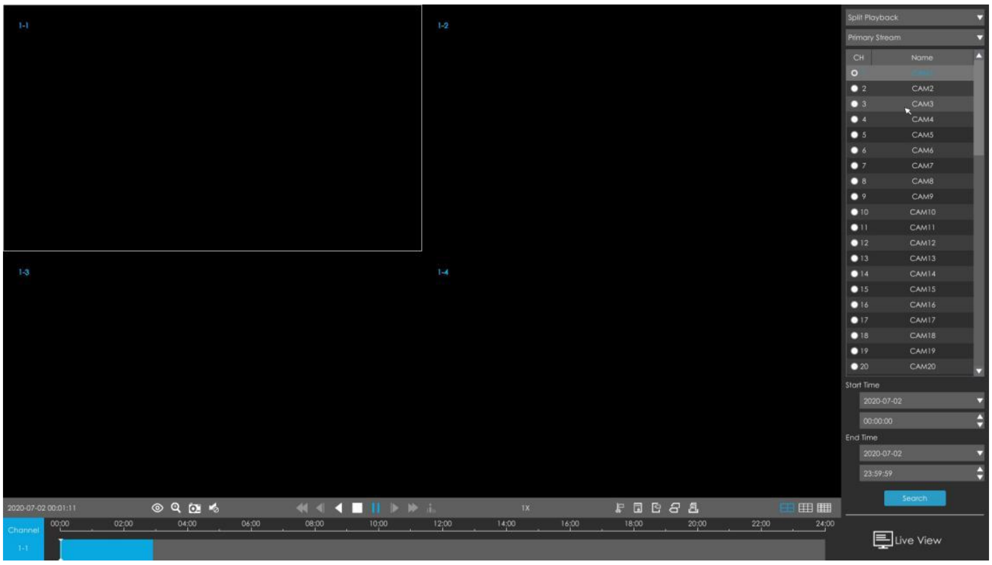
Step 4. Set Start Time and End Time.

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



Start Time
2020-07-02
00:00:00
End Time
2020-07-02
23:59:59

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



Split Playback
Primary Stream

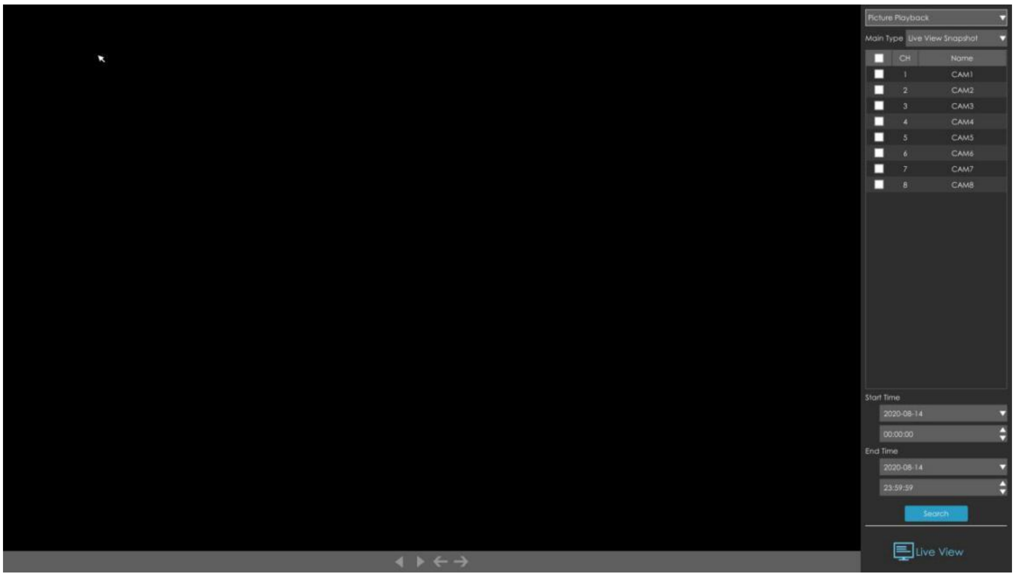
CH	Name
1	
2	CAM2
3	CAM3
4	CAM4
5	CAM5
6	CAM6
7	CAM7
8	CAM8
9	CAM9
10	CAM10
11	CAM11
12	CAM12
13	CAM13
14	CAM14
15	CAM15
16	CAM16
17	CAM17
18	CAM18
19	CAM19
20	CAM20

Start Time
2020-07-02
00:00:00
End Time
2020-07-02
23:59:59

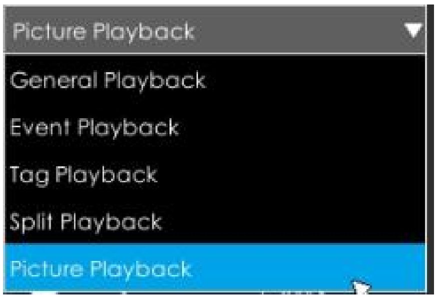
Step 6: Select Different Split Screen Numbers.

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.

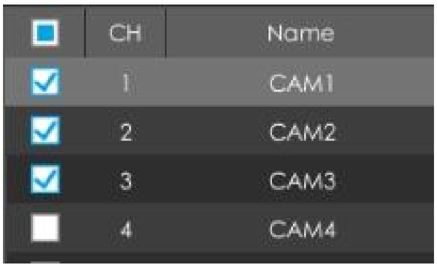
3.3.5 Picture Playback



Step 1. Select Picture Playback as playback type.

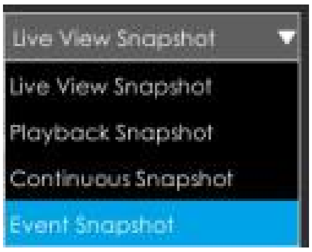


Step 2. Select channel.



☐	CH	Name
☑	1	CAM1
☑	2	CAM2
☑	3	CAM3
☐	4	CAM4

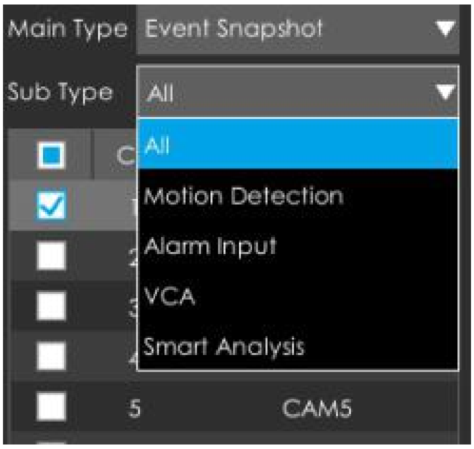
Step 3. Select Snapshot type, including Live View Snapshot, Playback Snapshot, Continuous Playback and Event Playback.



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.

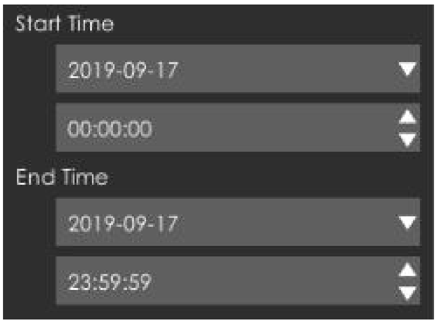
Event Snapshot includes Motion Detection, Alarm Input, VCA and Smart Analysis. Select corresponding event and click Search to get event snapshot files.



Main Type: Event Snapshot

Sub Type: All

Step 4: Select Start Time and End Time.



Start Time: 2019-09-17 00:00:00

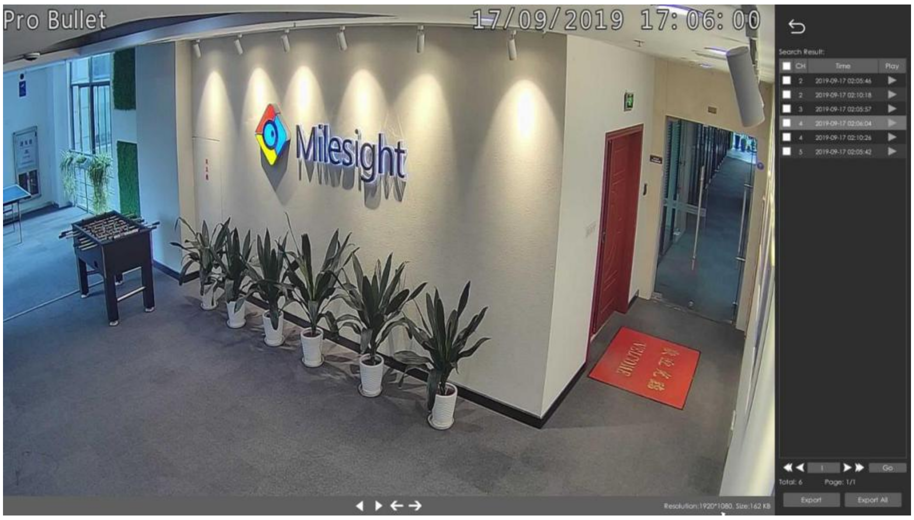
End Time: 2019-09-17 23:59:59

Step 5: It would list all snapshot after clicking Search.

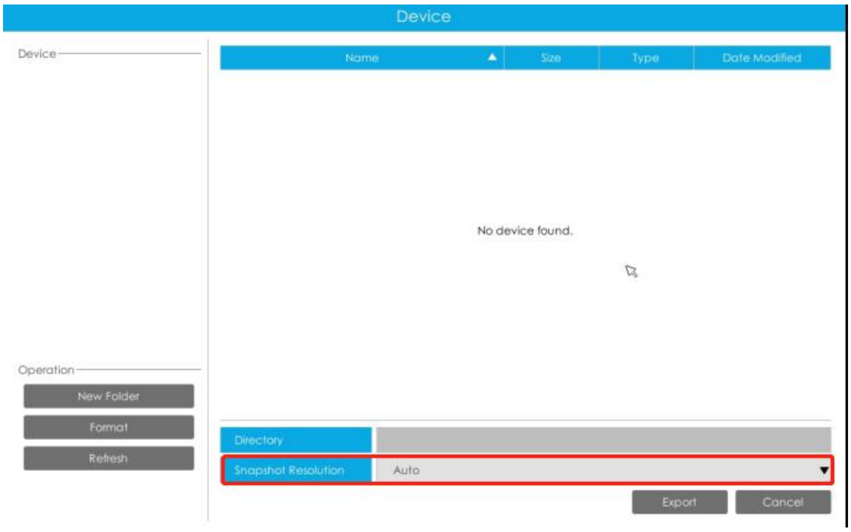
Click ▶ to play the selected picture, or click ▷ to auto play pictures.

Note:

1. You can export picture by clicking Export or Export All .



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

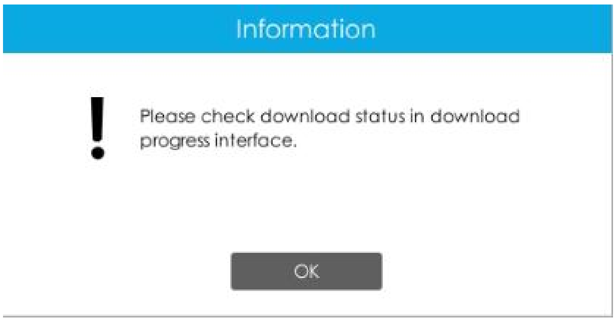


No device found.

Directory

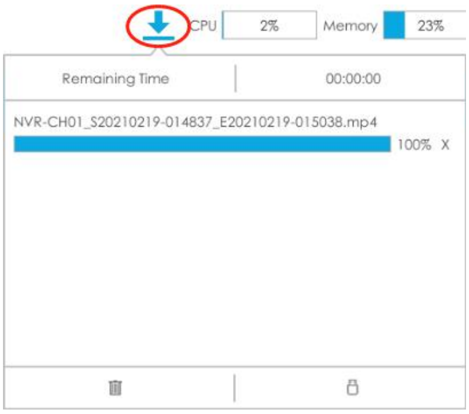
Snapshot Resolution: Auto

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



Please check download status in download progress interface.

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



CPU 2% Memory 23%

Remaining Time 00:00:00

NVR-CH01_S20210219-014837_E20210219-015038.mp4 100% X

Note:

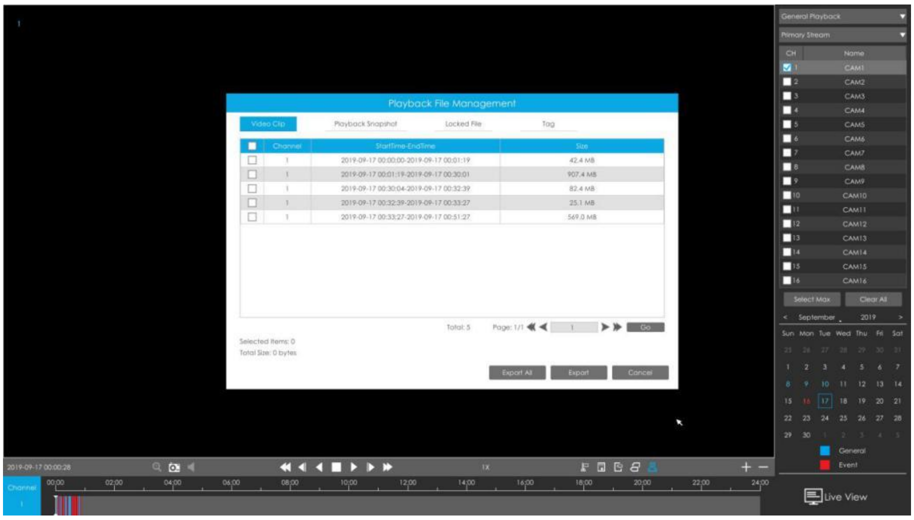
Download file can not exceed 100,000 at a time.

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.



Playback File Management

Video Clip | Playback Snapshot | Locked File | Tag

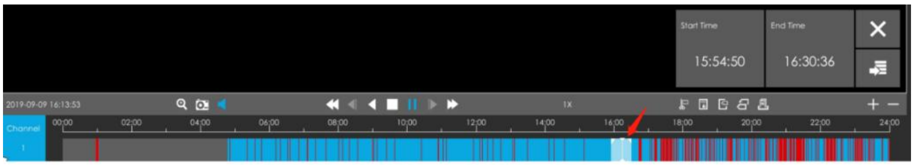
☐	Channel	StartTime-EndTime	Size
☐	1	2019-09-17 00:00:00-2019-09-17 00:01:19	42.4 MB
☐	1	2019-09-17 00:01:19-2019-09-17 00:30:01	907.4 MB
☐	1	2019-09-17 00:30:04-2019-09-17 00:32:39	82.4 MB
☐	1	2019-09-17 00:32:39-2019-09-17 00:33:27	25.1 MB
☐	1	2019-09-17 00:33:27-2019-09-17 00:51:27	569.0 MB

Total: 5 Page: 1/1

Selected Items: 0
Total Size: 0 bytes

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

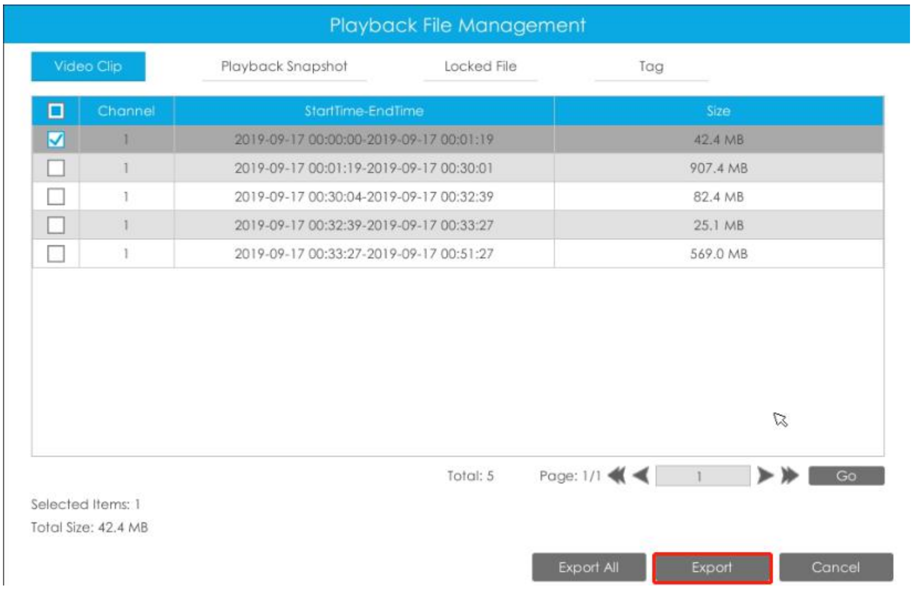
Select the channel and date you want to backup, then select the time at timeline and click , then drag the timeline to select the start time and end time of video.



Start Time 15:54:50
End Time 16:30:36

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

☐	Channel	StartTime-EndTime	Size
☑	1	2019-09-17 00:00:00-2019-09-17 00:01:19	42.4 MB
☐	1	2019-09-17 00:01:19-2019-09-17 00:30:01	907.4 MB
☐	1	2019-09-17 00:30:04-2019-09-17 00:32:39	82.4 MB
☐	1	2019-09-17 00:32:39-2019-09-17 00:33:27	25.1 MB
☐	1	2019-09-17 00:33:27-2019-09-17 00:51:27	569.0 MB

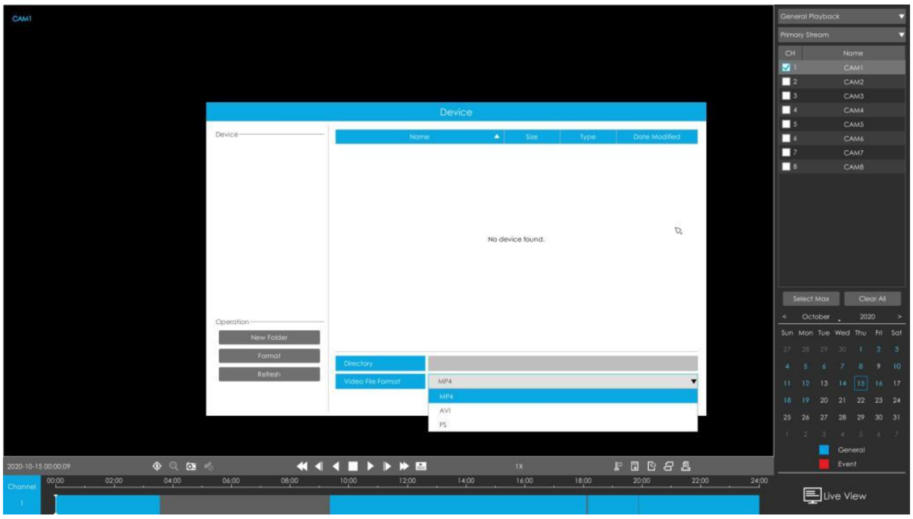
Total: 5 Page: 1/1 1 Go

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.



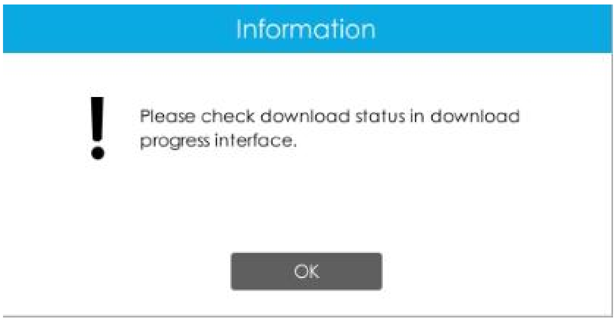
No device found.

Video File Format: MP4

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

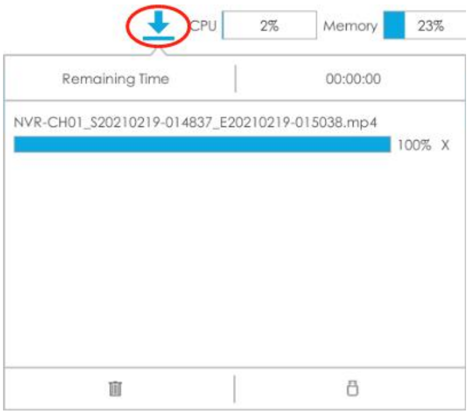
Please check download status in download progress interface.

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.



Remaining Time 00:00:00

NVR-CH01_S20210219-014837_E20210219-015038.mp4 100% X

Note:

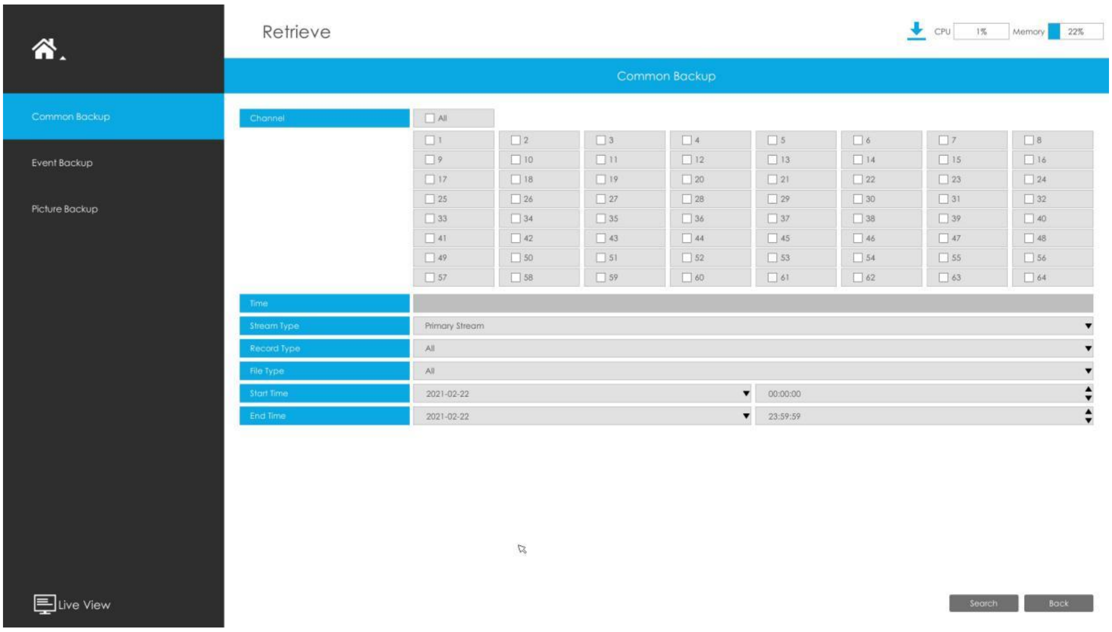
Download file can not exceed 100,000 at a time.

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.



Stream Type: Primary Stream

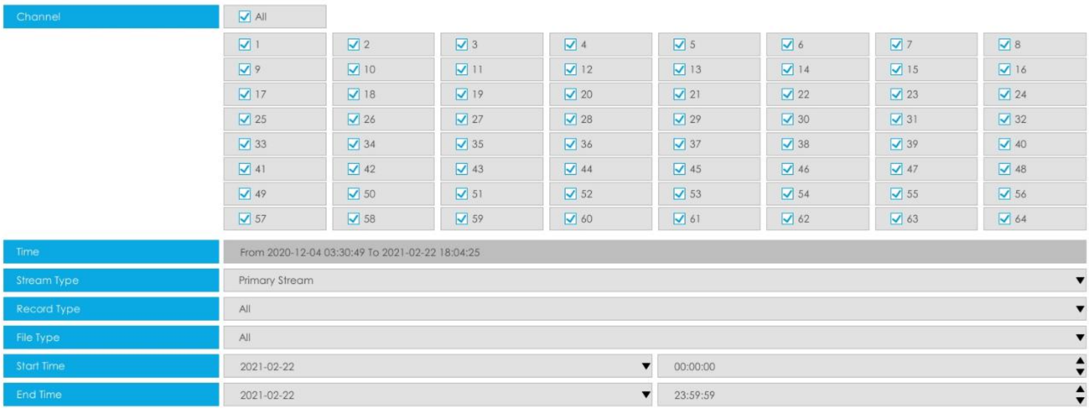
Record Type: All

File Type: All

Start Time: 2021-02-22 00:00:00

End Time: 2021-02-22 23:59:59

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



Channel: ☑ 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

Time: From 2020-12-04 03:30:49 To 2021-02-22 18:04:25

Stream Type: Primary Stream

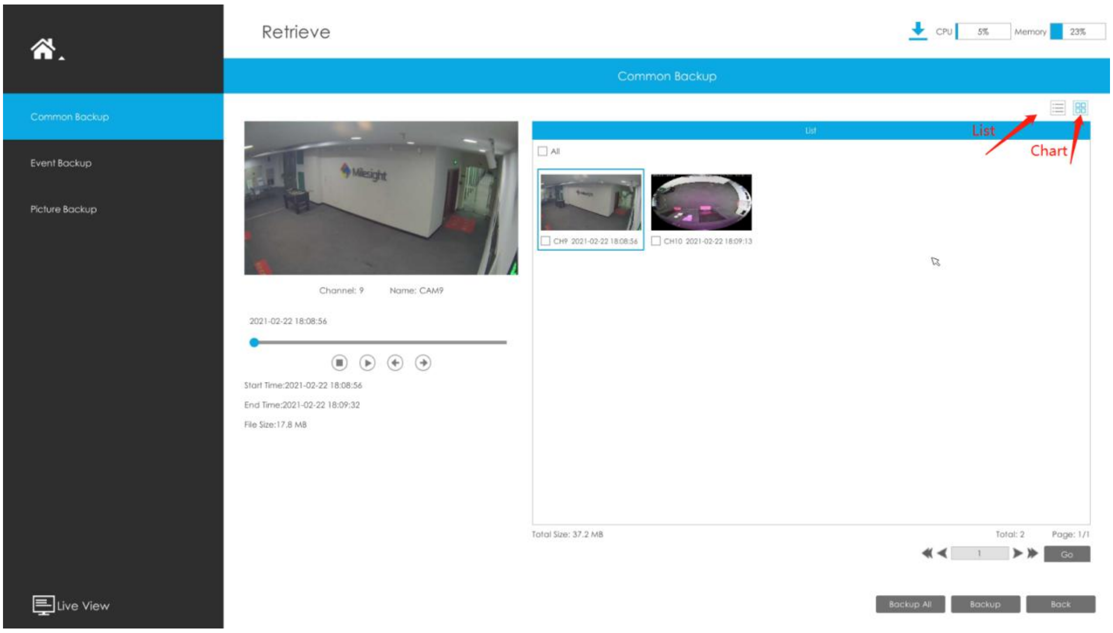
Record Type: All

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.



☐ All

☐ CH9 2021-02-22 18:08:56

☐ CH10 2021-02-22 18:09:13

Channel: 9 Name: CAM9

2021-02-22 18:08:56

Start Time:2021-02-22 18:08:56

End Time:2021-02-22 18:09:32

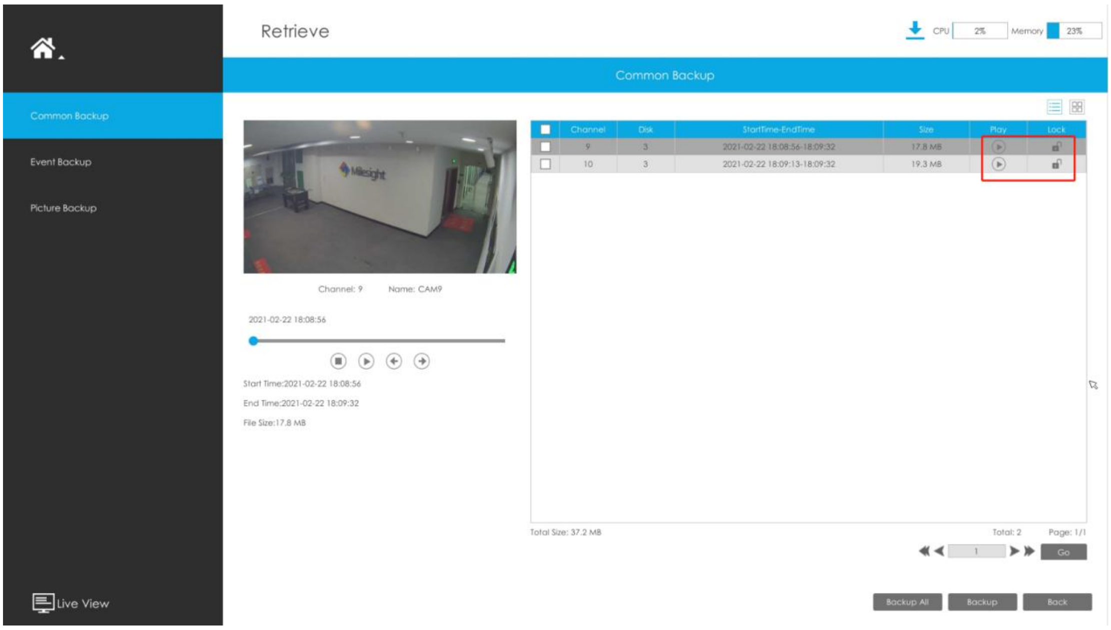
File Size:17.8 MB

Total Size: 37.2 MB

Total: 2 Page: 1/1

Step 2: 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 won't be overwritten.



CPU 2% Memory 23%

☐	Channel	Disk	StartTime-EndTime	Size	Play	Lock
☐	9	3	2021-02-22 18:08:56-18:09:32	17.8 MB	▶	🔓
☐	10	3	2021-02-22 18:09:13-18:09:32	19.3 MB	▶	🔓

Channel: 9 Name: CAM9

2021-02-22 18:08:56

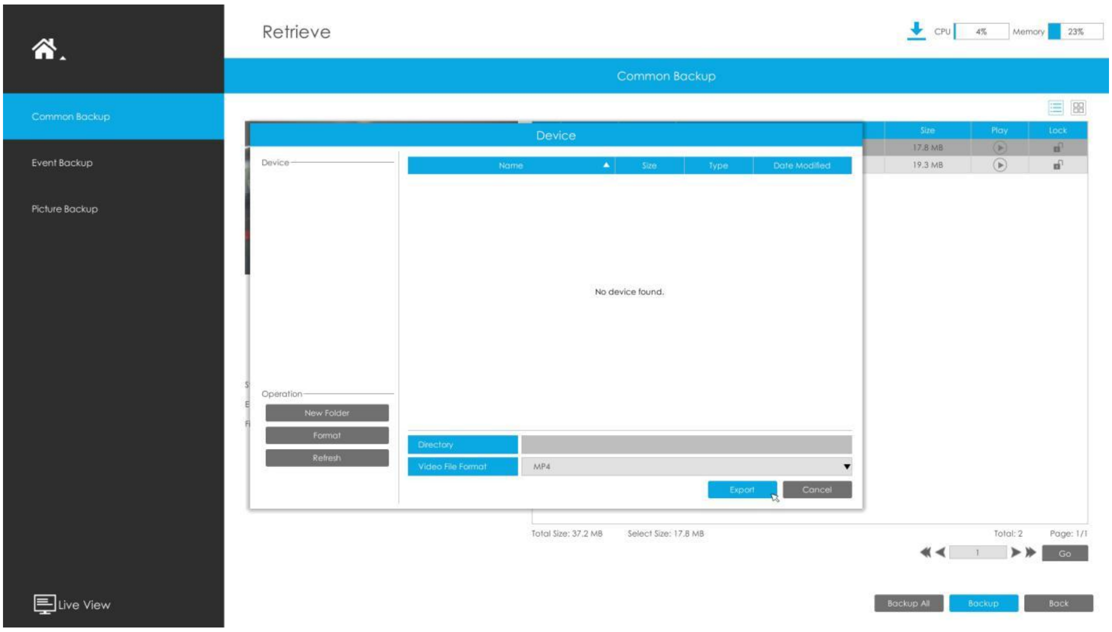
Start Time:2021-02-22 18:08:56

End Time:2021-02-22 18:09:32

File Size:17.8 MB

Total Size: 37.2 MB Total: 2 Page: 1/1

Step 3: Select the format to be exported, which includes MP4, AVI and PS format and then click Export to export selected files.



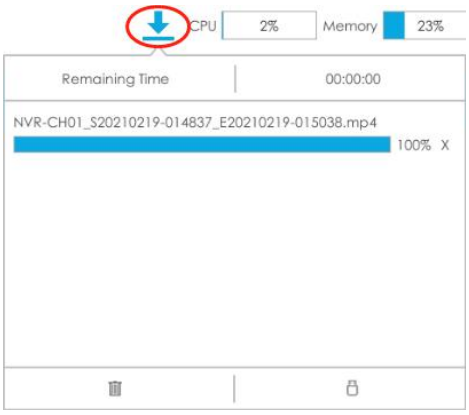
CPU 4% Memory 23%

No device found.

Video File Format: MP4

Total Size: 37.2 MB Select Size: 17.8 MB Total: 2 Page: 1/1

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



CPU 2% Memory 23%

Remaining Time 00:00:00

NVR-CH01_S20210219-014837_E20210219-015038.mp4 100% X

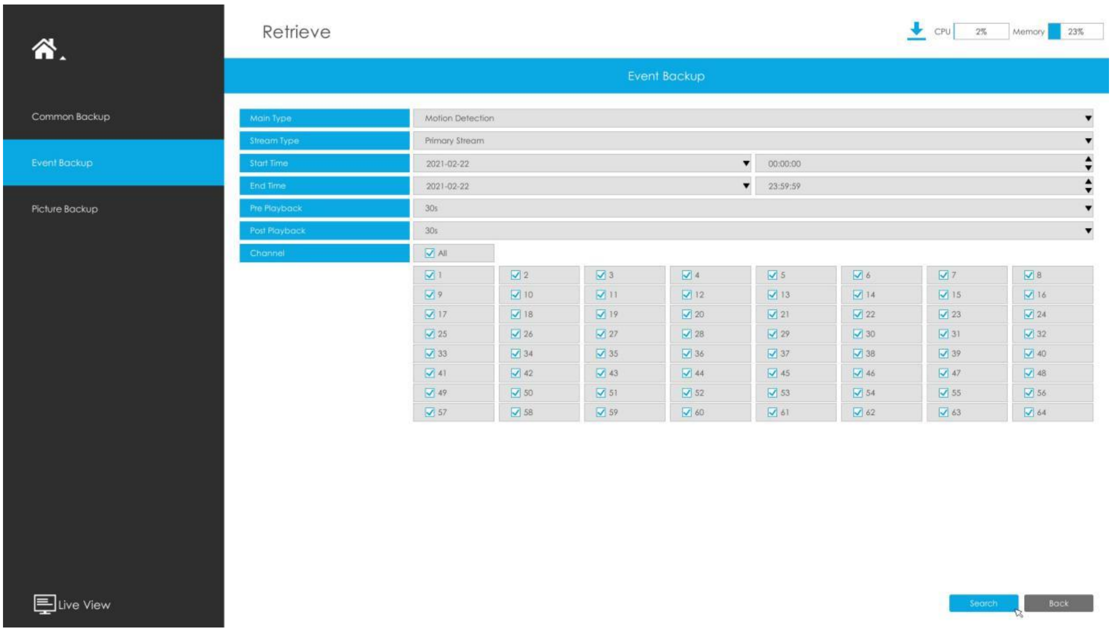
Note:

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.



Event Backup

CPU 2% Memory 23%

Main Type: Motion Detection

Stream Type: Primary Stream

Start Time: 2021-02-22 00:00:00

End Time: 2021-02-22 23:59:59

Pre Playback: 30s

Post Playback: 30s

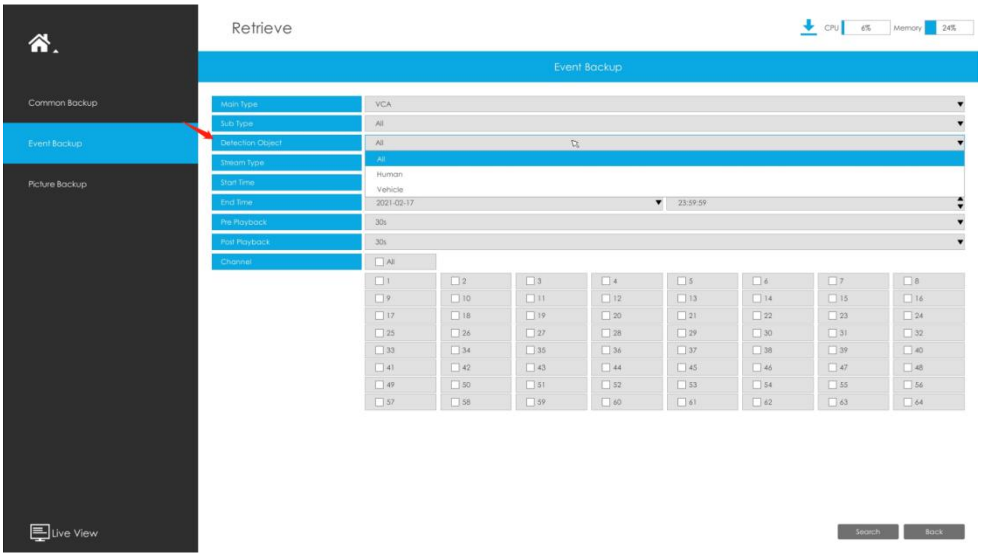
Channel: ☑ All

☑ 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

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.

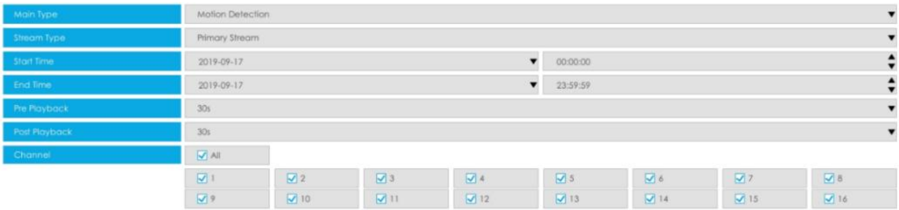
The VCA events which support the human/vehicle detection object function are:

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



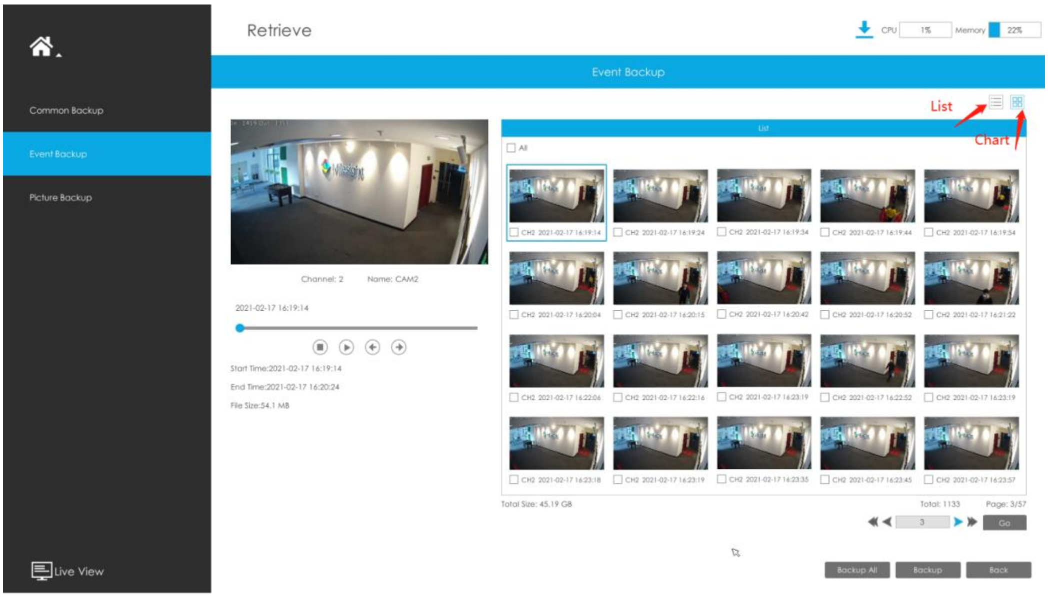
Main Type: VCA
Sub Type: All
Detection Object: All
All
Human
Vehicle
Stream Type
Start Time
End Time: 2021-02-17 23:59:59
Pre Playback: 30s
Post Playback: 30s
Channel: ☐ All
☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8
☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16
☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24
☐ 25 ☐ 26 ☐ 27 ☐ 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

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



Main Type: Motion Detection
Stream Type: Primary Stream
Start Time: 2019-09-17 00:00:00
End Time: 2019-09-17 23:59:59
Pre Playback: 30s
Post Playback: 30s
Channel: ☑ All
☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8
☑ 9 ☑ 10 ☑ 11 ☑ 12 ☑ 13 ☑ 14 ☑ 15 ☑ 16

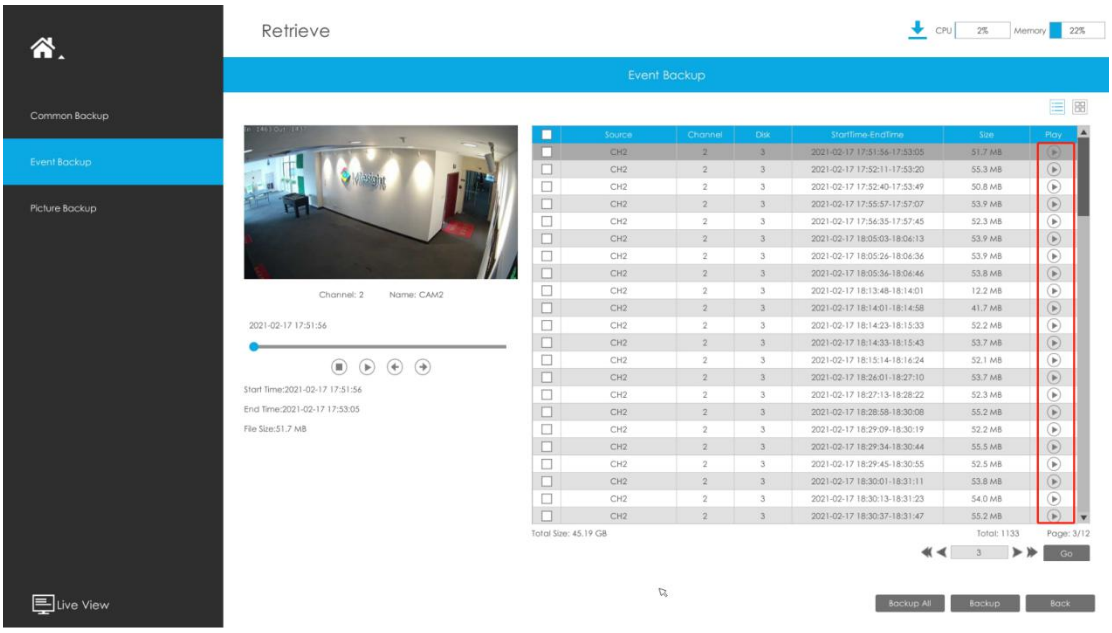
The search result can be chosen as a List or Chart. The default search result presents as a list.


Retrieve
CPU 1%
Memory 22%
Event Backup
Common Backup
Event Backup
Picture Backup
Live View
List
Chart
List
☐ All
☐ CH2 2021-02-17 16:19:14
☐ CH2 2021-02-17 16:19:24
☐ CH2 2021-02-17 16:19:34
☐ CH2 2021-02-17 16:19:44
☐ CH2 2021-02-17 16:19:54
☐ CH2 2021-02-17 16:20:04
☐ CH2 2021-02-17 16:20:15
☐ CH2 2021-02-17 16:20:42
☐ CH2 2021-02-17 16:20:52
☐ CH2 2021-02-17 16:21:22
☐ CH2 2021-02-17 16:22:06
☐ CH2 2021-02-17 16:22:16
☐ CH2 2021-02-17 16:23:19
☐ CH2 2021-02-17 16:22:52
☐ CH2 2021-02-17 16:23:19
☐ CH2 2021-02-17 16:23:18
☐ CH2 2021-02-17 16:23:19
☐ CH2 2021-02-17 16:23:35
☐ CH2 2021-02-17 16:23:45
☐ CH2 2021-02-17 16:23:57
3
Go
Backup All
Backup
Back

Channel: 2 Name: CAM2
2021-02-17 16:19:14
Start Time:2021-02-17 16:19:14
End Time:2021-02-17 16:20:24
File Size:54.1 MB
Total Size: 45.19 GB
Total: 1133 Page: 3/57

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

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



Channel: 2 Name: CAM2

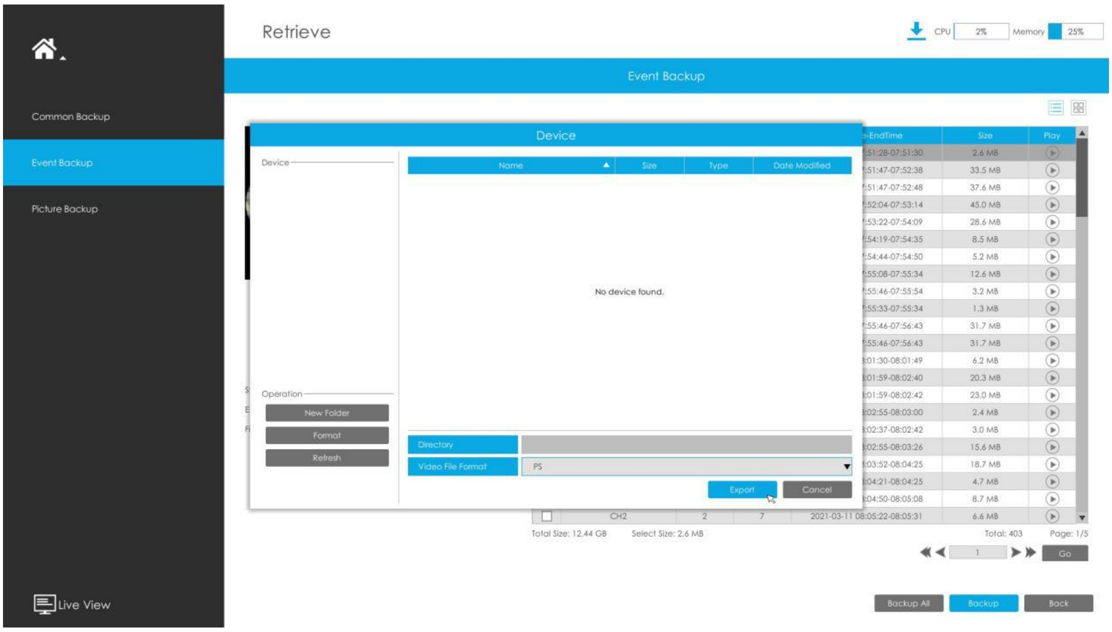
2021-02-17 17:51:56

Start Time:2021-02-17 17:51:56
End Time:2021-02-17 17:53:05
File Size:51.7 MB

☐	Source	Channel	Disk	StartTime-EndTime	Size	Play
☐	CH2	2	3	2021-02-17 17:51:56-17:53:05	51.7 MB	▷
☐	CH2	2	3	2021-02-17 17:52:11-17:53:20	55.3 MB	▷
☐	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	▷

Total Size: 45.19 GB
Total: 1133
Page: 3/12
3

Step 3: Select the format to be exported, which includes MP4, AVI and PS format and then click Export to export selected files.



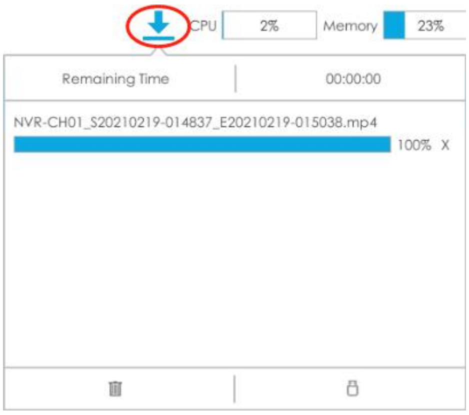
No device found.

Directory

Video File Format: PS

Total Size: 12.44 GB Select Size: 2.6 MB
Total: 403
Page: 1/5
1

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



Remaining Time: 00:00:00

NVR-CH01_S20210219-014837_E20210219-015038.mp4 100% X

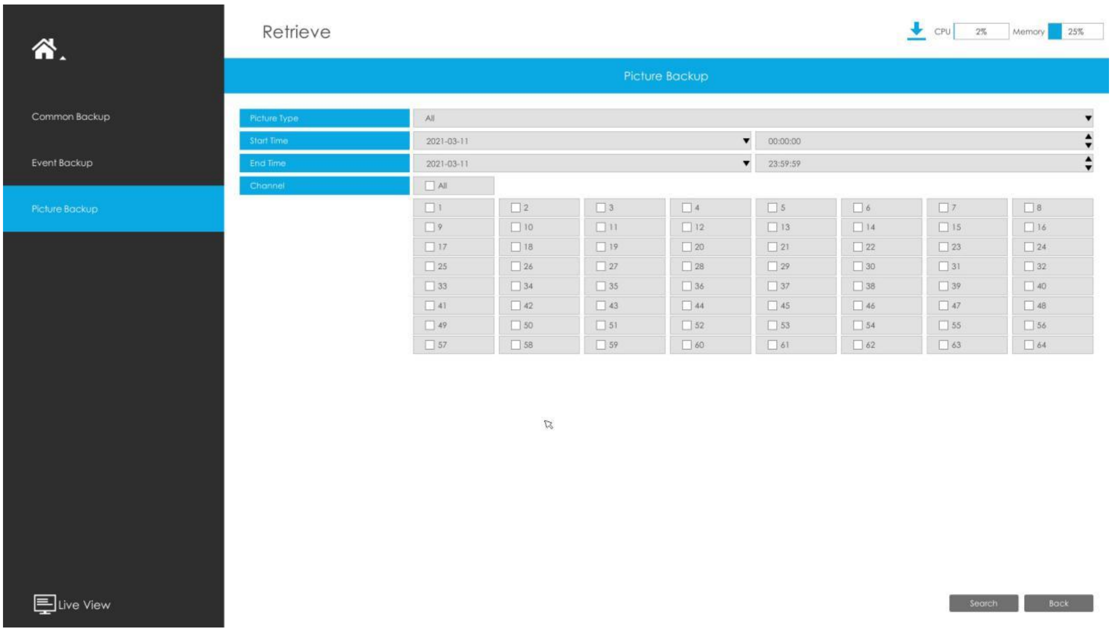
Note:

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

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

3.4.3 Picture Backup

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



Picture Backup

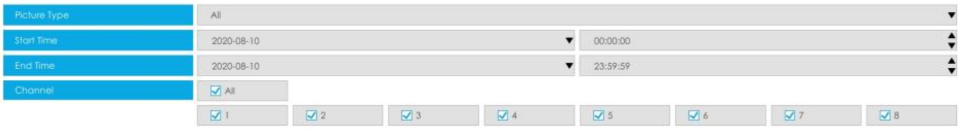
Picture Type: All

Start Time: 2021-03-11 00:00:00

End Time: 2021-03-11 23:59:59

Channel: ☐ All

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



Picture Type: All

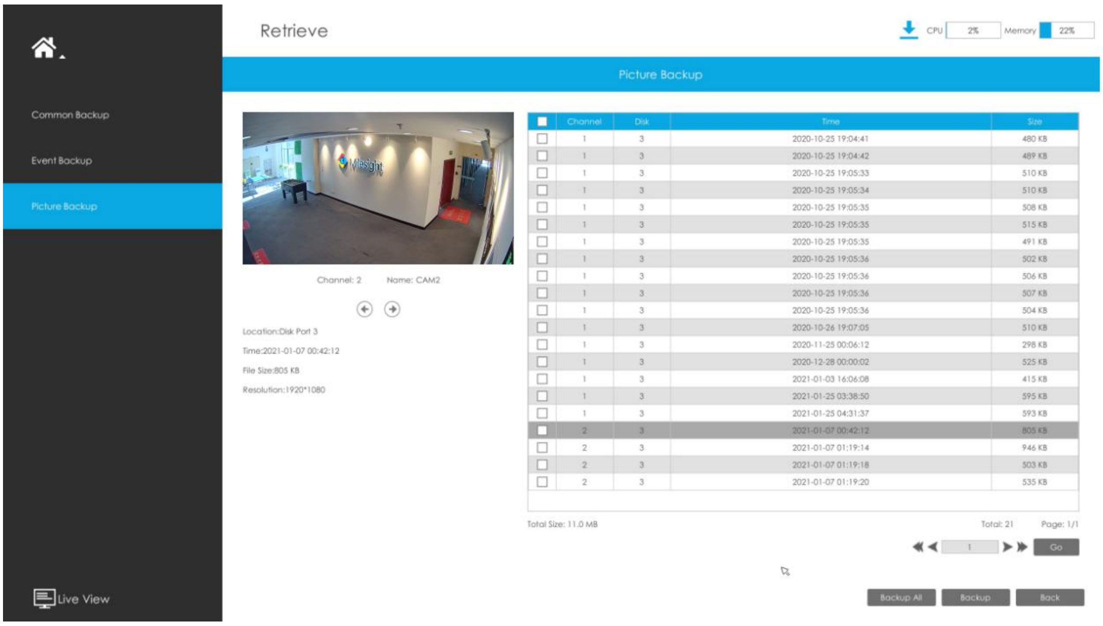
Start Time: 2020-08-10 00:00:00

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

Channel: ☑ All

☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

Step 2: Select the file you want to backup and click Backup**. Also, you can click** Backup All **to backup all recorded videos.**



Channel: 2 Name: CAM2

Location:Disk Port 3

Time:2021-01-07 00:42:12

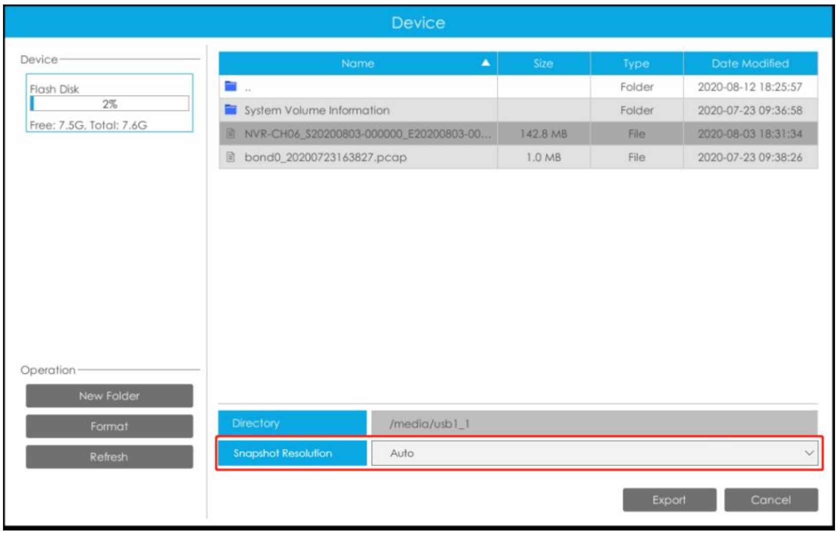
File Size:805 KB

Resolution:1920*1080

☐	Channel	Disk	Time	Size
☐	1	3	2020-10-25 19:04:41	480 KB
☐	1	3	2020-10-25 19:04:42	489 KB
☐	1	3	2020-10-25 19:05:33	510 KB
☐	1	3	2020-10-25 19:05:34	510 KB
☐	1	3	2020-10-25 19:05:35	508 KB
☐	1	3	2020-10-25 19:05:35	515 KB
☐	1	3	2020-10-25 19:05:35	491 KB
☐	1	3	2020-10-25 19:05:36	502 KB
☐	1	3	2020-10-25 19:05:36	506 KB
☐	1	3	2020-10-25 19:05:36	507 KB
☐	1	3	2020-10-25 19:05:36	504 KB
☐	1	3	2020-10-26 19:07:05	510 KB
☐	1	3	2020-11-25 00:06:12	298 KB
☐	1	3	2020-12-28 00:00:02	525 KB
☐	1	3	2021-01-03 16:06:08	415 KB
☐	1	3	2021-01-25 03:38:50	595 KB
☐	1	3	2021-01-25 04:31:37	593 KB
☐	2	3	2021-01-07 00:42:12	805 KB
☐	2	3	2021-01-07 01:19:14	946 KB
☐	2	3	2021-01-07 01:19:18	503 KB
☐	2	3	2021-01-07 01:19:20	535 KB

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

Step 3: Select the Snapshot Resolution which includes Auto, 704*576 and 640*360, and click Export to export selected snapshots .



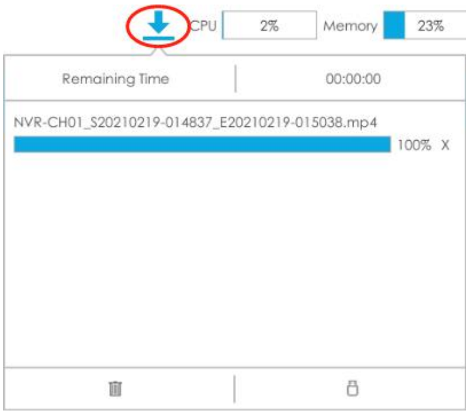
Flash Disk 2% Free: 7.5G, Total: 7.6G

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

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.



CPU 2% Memory 23%

Remaining Time 00:00:00

NVR-CH01_S20210219-014837_E20210219-015038.mp4 100% X

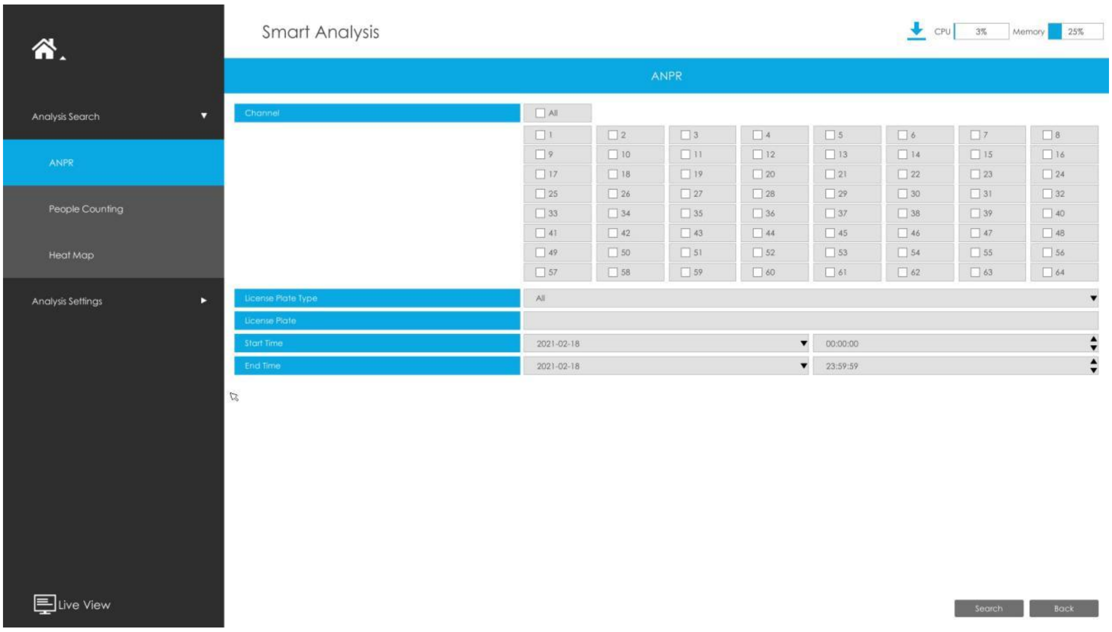
Note:

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

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

3.5 Smart Analysis

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



CPU 3% Memory 25%

License Plate Type: All

License Plate:

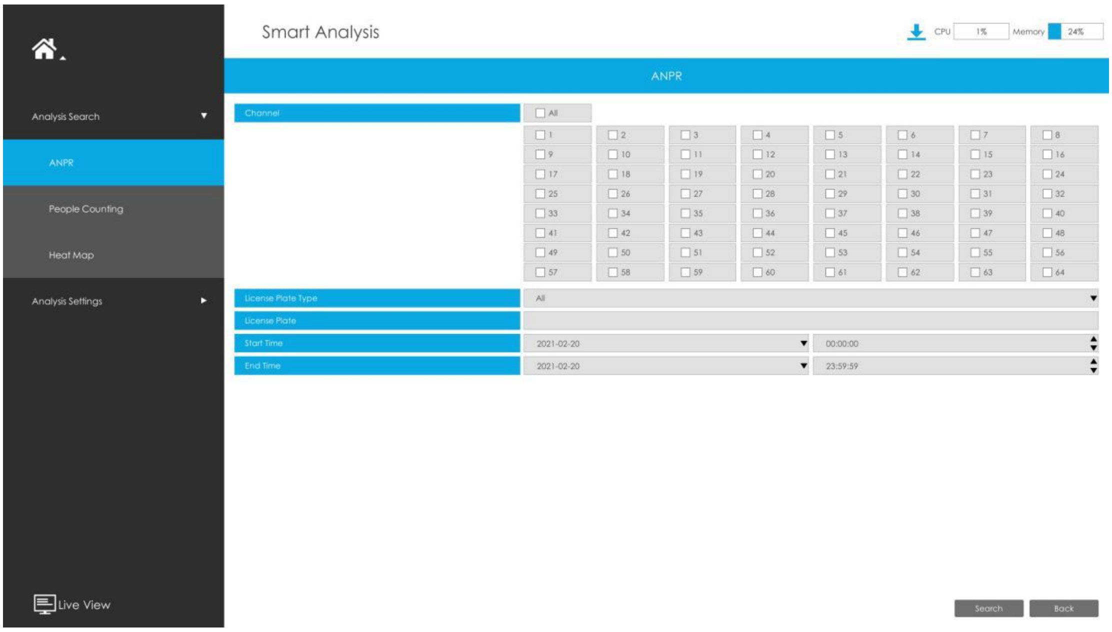
Start Time: 2021-02-18 00:00:00

End Time: 2021-02-18 23:59:59

3.5.1 Analysis Search

3.5.1.1 ANPR

You can Search and Backup ANPR logs.



Channel: ☐ All; ☐ 1 – ☐ 64

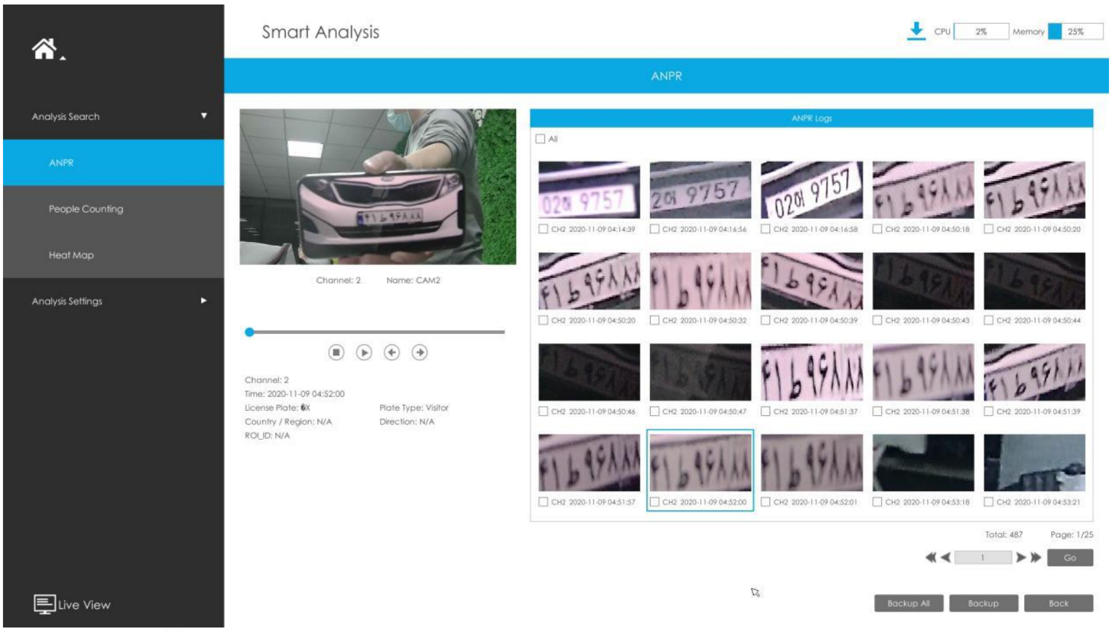
License Plate Type: All

License Plate:

Start Time: 2021-02-20 00:00:00

End Time: 2021-02-20 23:59:59

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

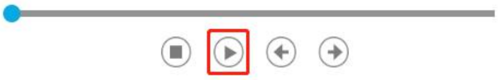


Channel: 2 Name: CAM2

Channel: 2
Time: 2020-11-09 04:52:00
License Plate: 6X
Plate Type: Visitor
Country / Region: N/A
Direction: N/A
ROI_ID: N/A

☐ CH2 2020-11-09 04:14:39
☐ CH2 2020-11-09 04:16:56
☐ CH2 2020-11-09 04:16:58
☐ CH2 2020-11-09 04:50:18
☐ CH2 2020-11-09 04:50:20
☐ CH2 2020-11-09 04:50:20
☐ CH2 2020-11-09 04:50:32
☐ CH2 2020-11-09 04:50:39
☐ CH2 2020-11-09 04:50:43
☐ CH2 2020-11-09 04:50:44
☐ CH2 2020-11-09 04:50:46
☐ CH2 2020-11-09 04:50:47
☐ CH2 2020-11-09 04:51:37
☐ CH2 2020-11-09 04:51:38
☐ CH2 2020-11-09 04:51:39
☐ CH2 2020-11-09 04:51:57
☐ CH2 2020-11-09 04:52:00
☐ CH2 2020-11-09 04:52:01
☐ CH2 2020-11-09 04:53:18
☐ CH2 2020-11-09 04:53:21

You can click ▷ to play the video.

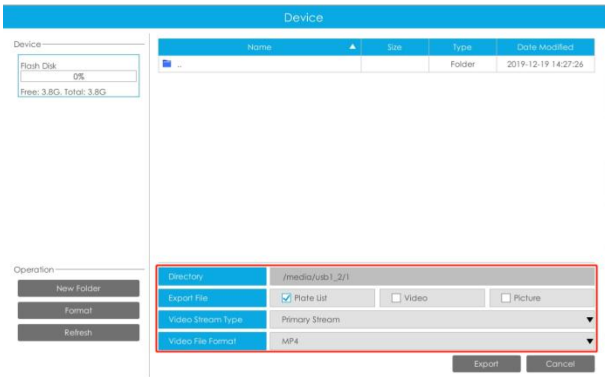


There are two methods to backup ANPR logs.

① Backup license plates you want.

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

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



Directory: /media/usb1_2/1
Export File: ☑ Plate List ☐ Video ☐ Picture
Video Stream Type: Primary Stream
Video File Format: MP4

② Backup all.

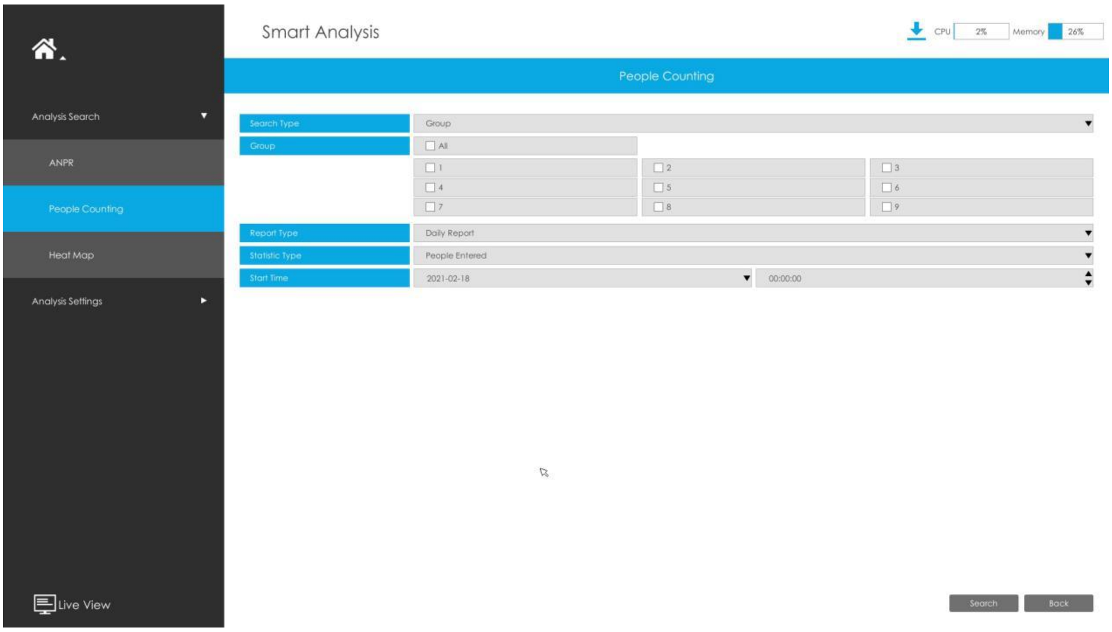
Step1: Click backup all Backup All button;

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 People Counting

You can Search and Backup the results of People Counting.



Search Type: Group
Group: ☐ All ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9
Report Type: Daily Report
Statistic Type: People Entered
Start Time: 2021-02-18 00:00:00

Step1: Entering search conditions.

Group: Select the groups first.

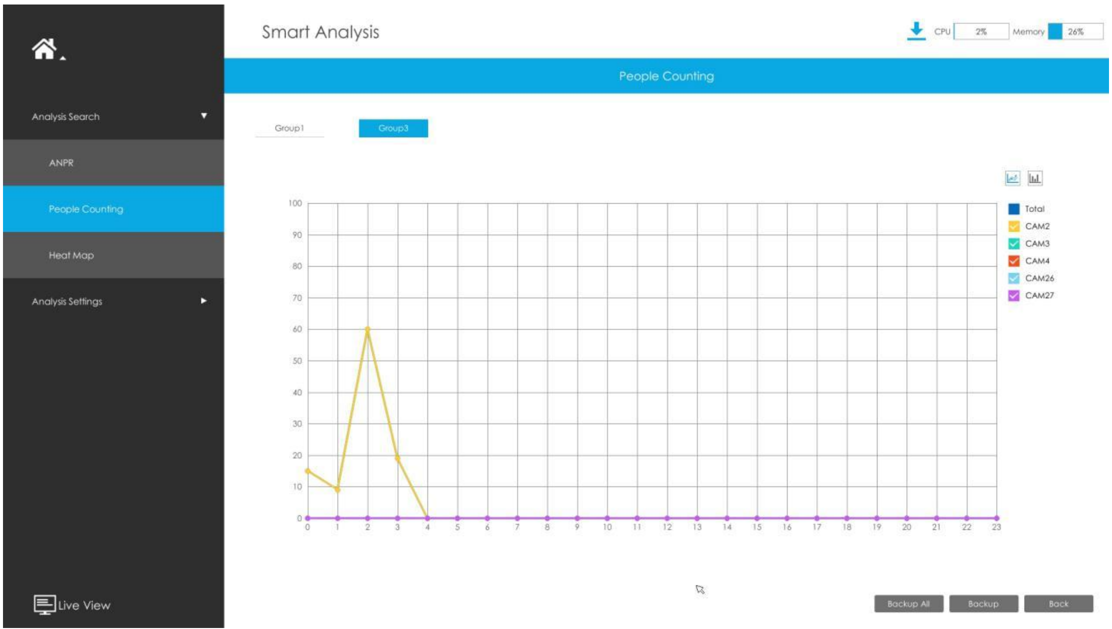
Report Type: Daily Report, Weekly Report and Monthly Report are available.

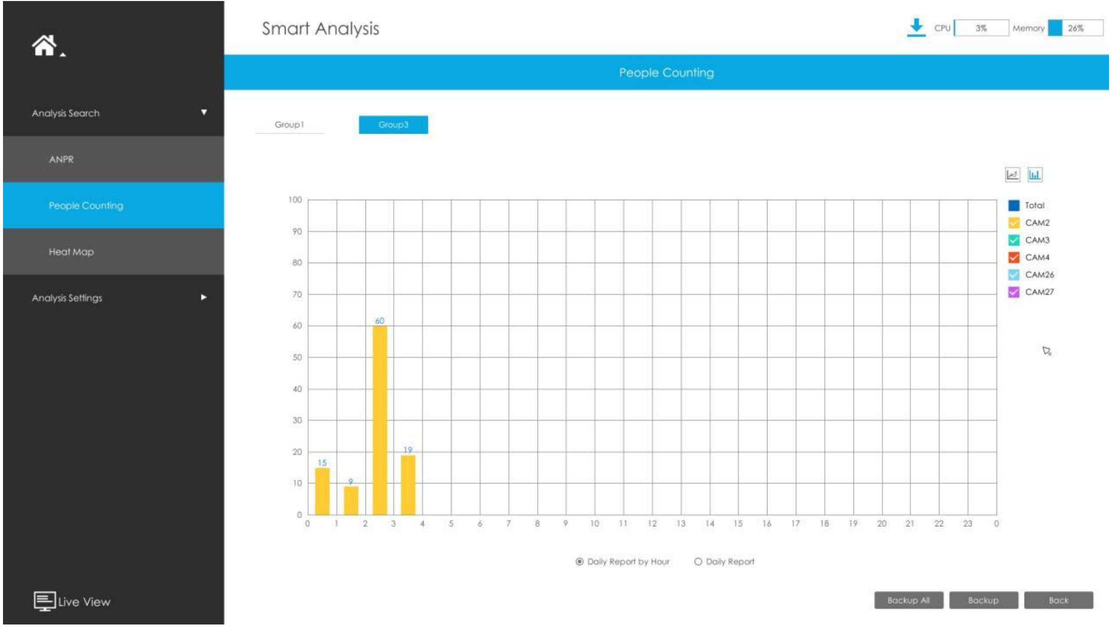
Statistic Type: People Entered, People Exited and Sum are available.

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

Step2: Click Search to obtain the corresponding result. There are two ways to show the results of People Counting: Line Chart and Bar Chart.

And then you can click Export to export it.



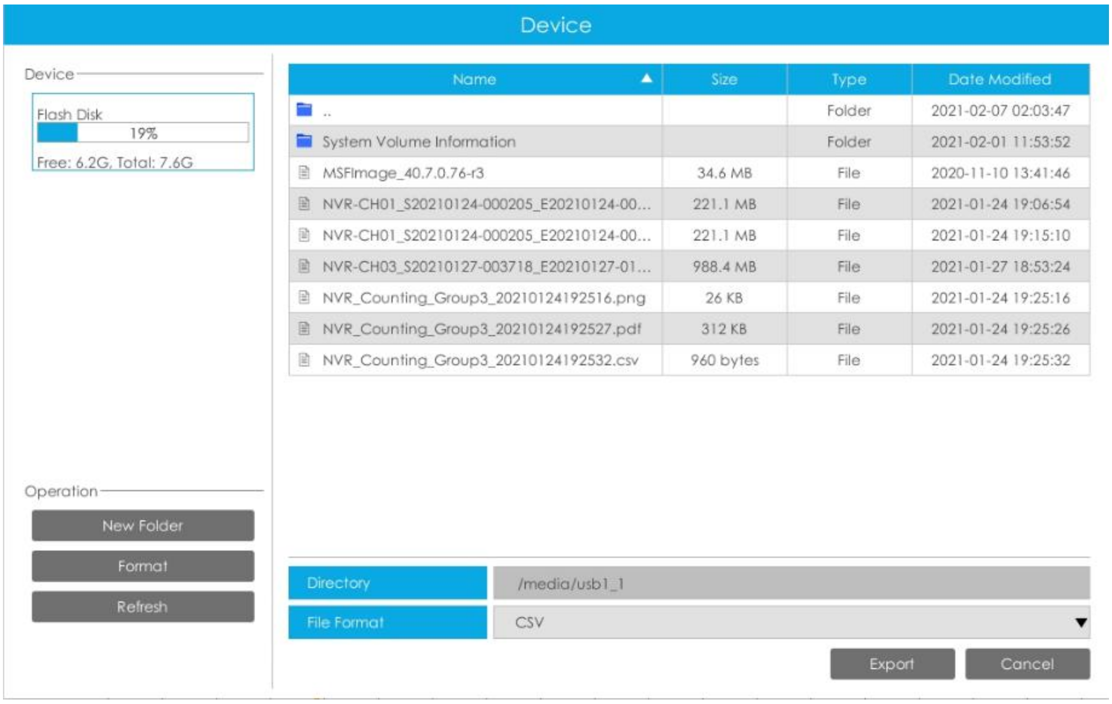


Step3: You can backup the results of People Counting in two ways:

①Backup the group you want.

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

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



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

Directory: /media/usb1_1
File Format: CSV

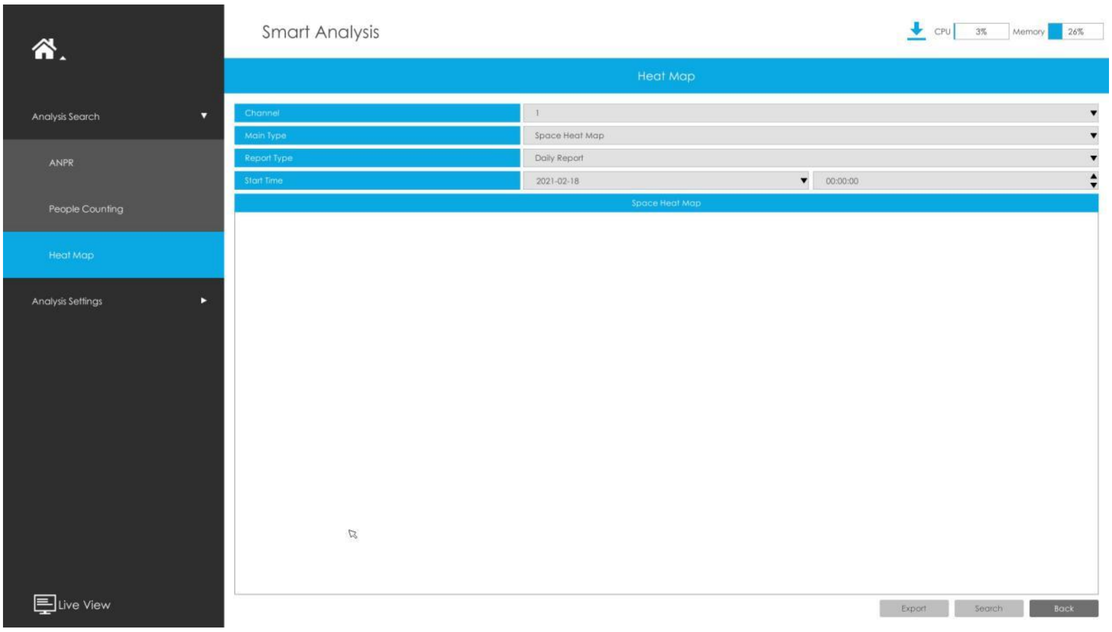
②Backup all.

Step1: Click backup all button Backup All;

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

3.5.1.3 Heat Map

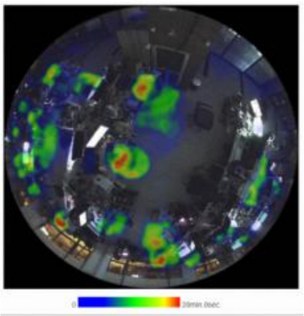
You can Search and Export Heat Map results.



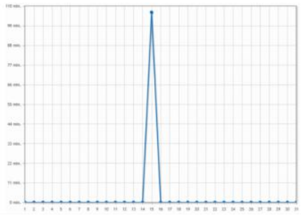
Channel: 1
Main Type: Space Heat Map
Report Type: Daily Report
Start Time: 2021-02-18 00:00:00

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

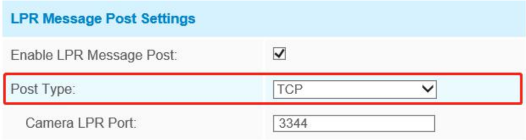
3.5.2 Analysis Settings

3.5.2.1 ANPR

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

Note:

1. Insert available HDD to NVR.
2. Upgrade your device to corresponded firmware version.
   Camera: V4X.7.0.72-r16 or above.
   NVR: V7X.9.0.7-r7 or above.
   Firmware download link: http://www.milesight.com/support/download#firmware
3. Ensure both camera and NVR support LPR/ANPR function. Up to 16 ANPR channels are supported for Milesight NVR.
4. Ensure that NVR can get license plate information. Please set TCP which is the default mode as Post Type. It can be set in Camera web page -> LPR -> Settings -> General interface.

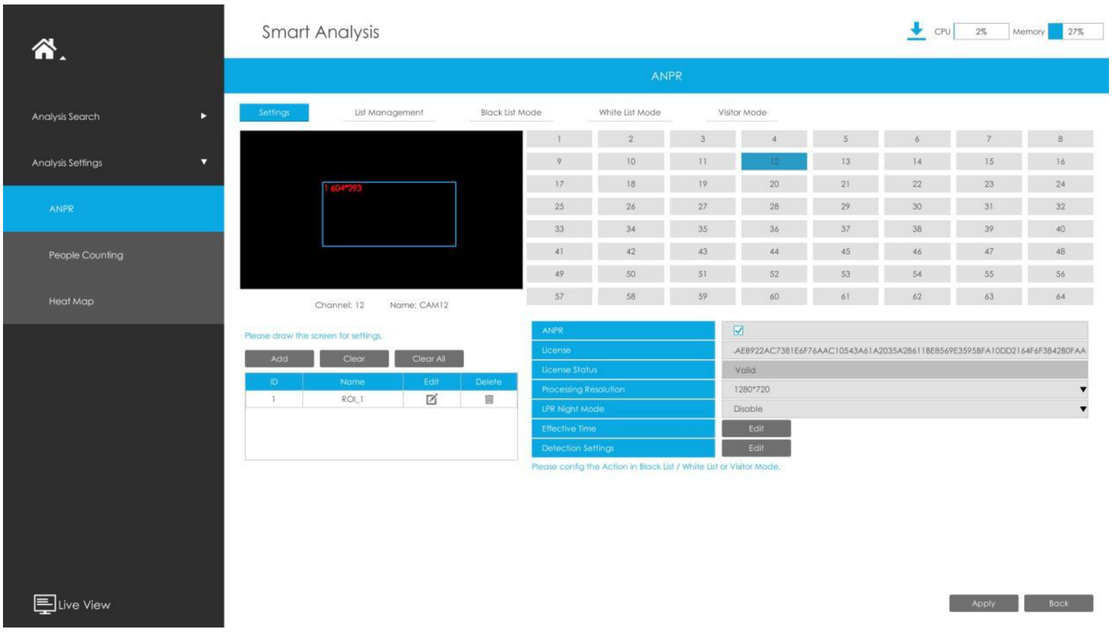


LPR Message Post Settings

Enable LPR Message Post:	☑
Post Type:	TCP
Camera LPR Port:	3344

Settings

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



ANPR	☑
License	.AEB922AC7381E6F76AAC10543A61A2035A28611BE8569E3595BFA10DD2164F6F3842B0FAA
License Status	Valid
Processing Resolution	1280*720
LPR Night Mode	Disable
Effective Time	Edit
Detection Settings	Edit

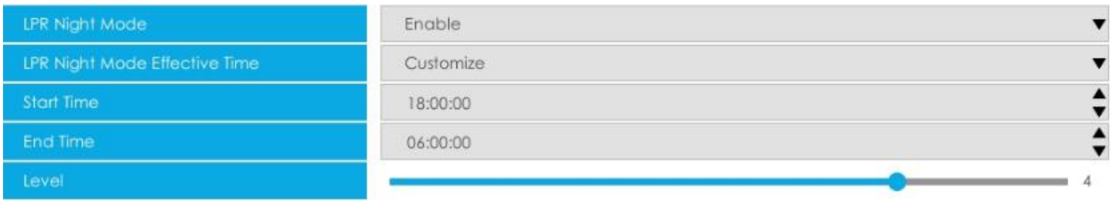
Step 1: Select a channel and enable ANPR function;

License: Generated by camera's information

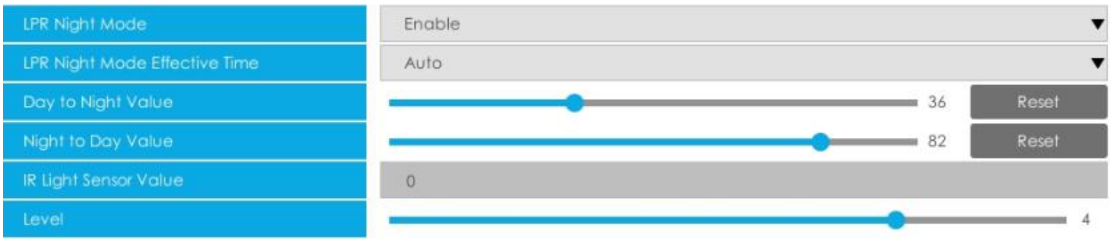
License Status: Show present license status, including Valid, Invalid, Expired, Inactivated

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

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



LPR Night Mode	Enable
LPR Night Mode Effective Time	Customize
Start Time	18:00:00
End Time	06:00:00
Level	4



LPR Night Mode	Enable
LPR Night Mode Effective Time	Auto
Day to Night Value	36 Reset
Night to Day Value	82 Reset
IR Light Sensor Value	0
Level	4

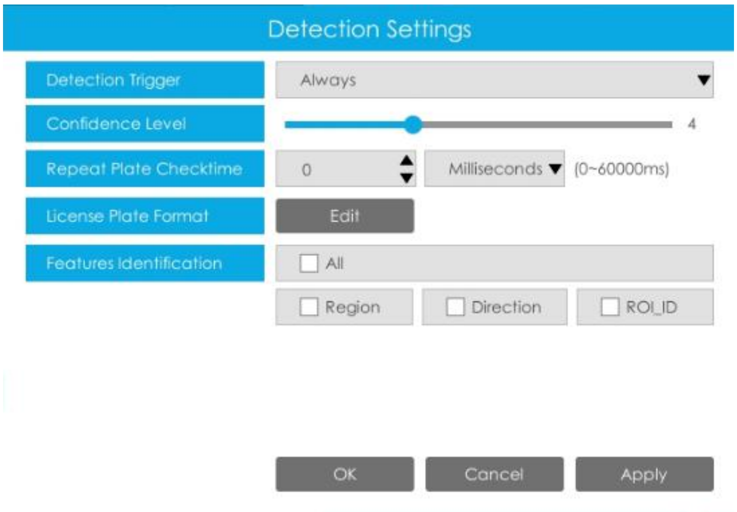
Note:

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

Mode Effective Time is available.

Step 4: Set ANPR function effective time;

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



Detection Settings

Detection Trigger: Always

Confidence Level: 4

Repeat Plate Checktime: 0 Milliseconds (0~60000ms)

License Plate Format: Edit

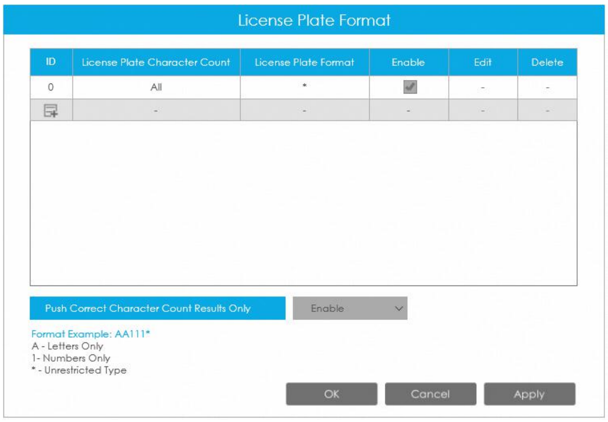
Features Identification: ☐ All ☐ Region ☐ Direction ☐ ROI_ID

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.



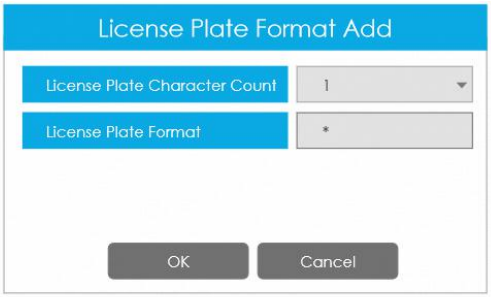
License Plate Format

ID	License Plate Character Count	License Plate Format	Enable	Edit	Delete
0	All	*	☑	-	-
	-	-	-	-	-

Push Correct Character Count Results Only: Enable

Format Example: AA111*
A - Letters Only
1- Numbers Only
* - Unrestricted Type

① Click to add a License Plate Format.



License Plate Format Add

License Plate Character Count: 1

License Plate Format: *

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

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

Push Correct Character Count Results Only:

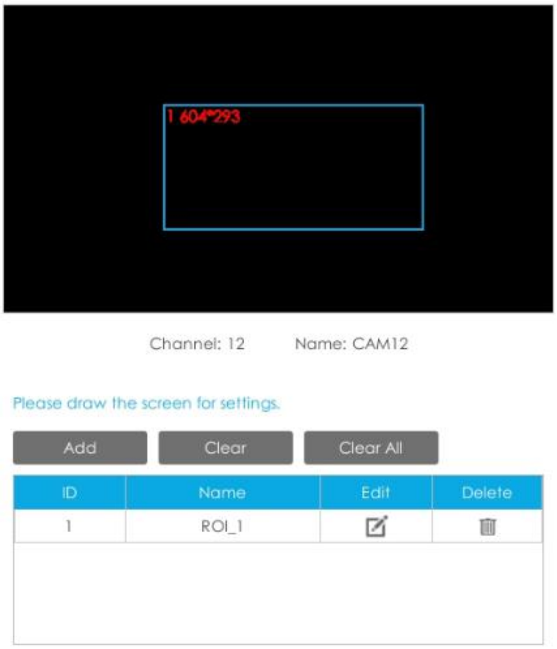
If the count of the detected license doesn't match your configuration, it will push correct character count results by completing or reducing characters automatically.

Note:

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

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

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



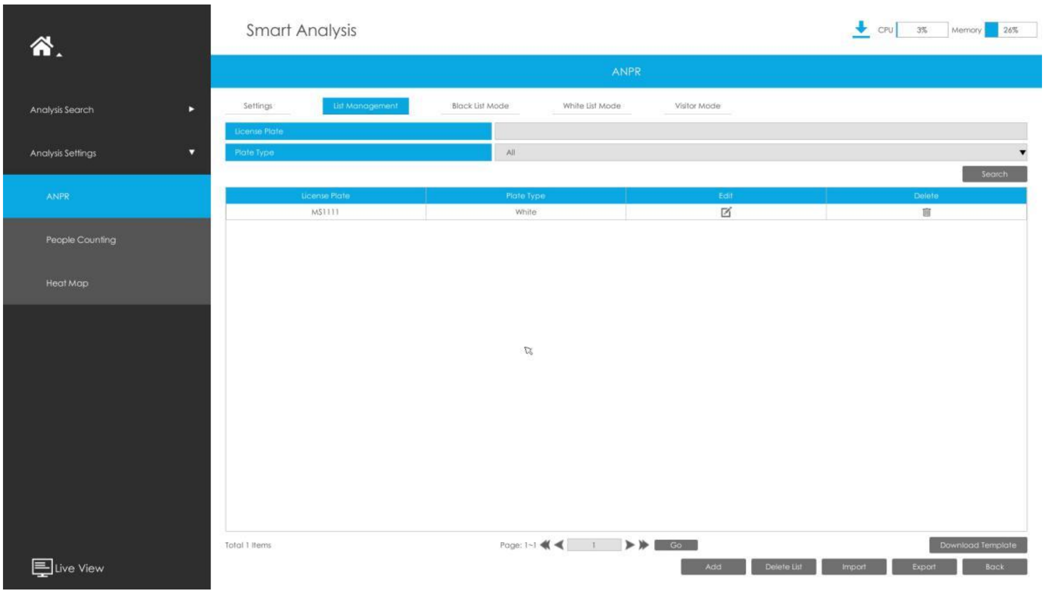
Channel: 12 Name: CAM12

Please draw the screen for settings.

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.



License Plate:

Plate Type: All

License Plate	Plate Type	Edit	Delete
MS1111	White		

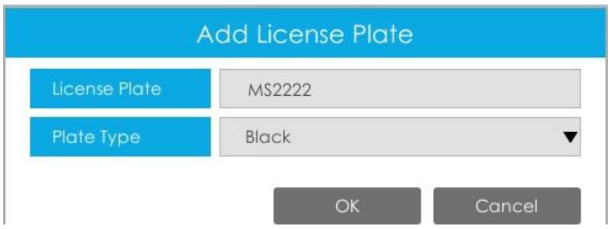
There are two methods to add license plates:

① Add one by one.

Step 1: Click Add button Add;

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

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



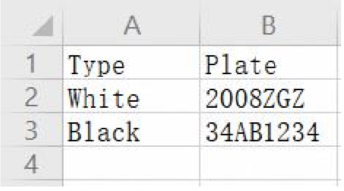
License Plate: MS2222

Plate Type: Black

② Batch adding by importing template.

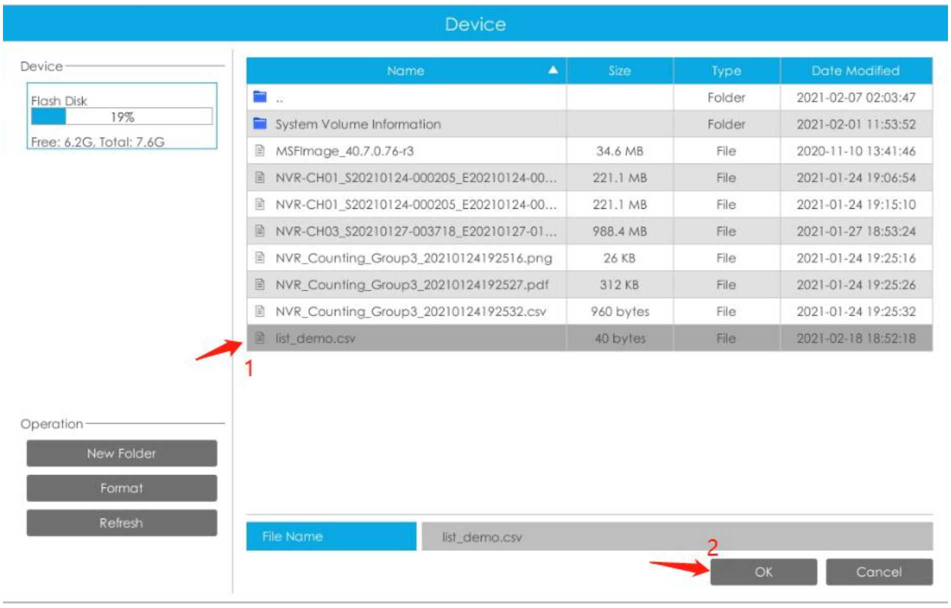
Step 1: Click Download Template button Download Template, select USB device folder and click OK to download Template;

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



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

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



Flash Disk 19%
Free: 6.2G, Total: 7.6G

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
list_demo.csv	40 bytes	File	2021-02-18 18:52:18

File Name: list_demo.csv

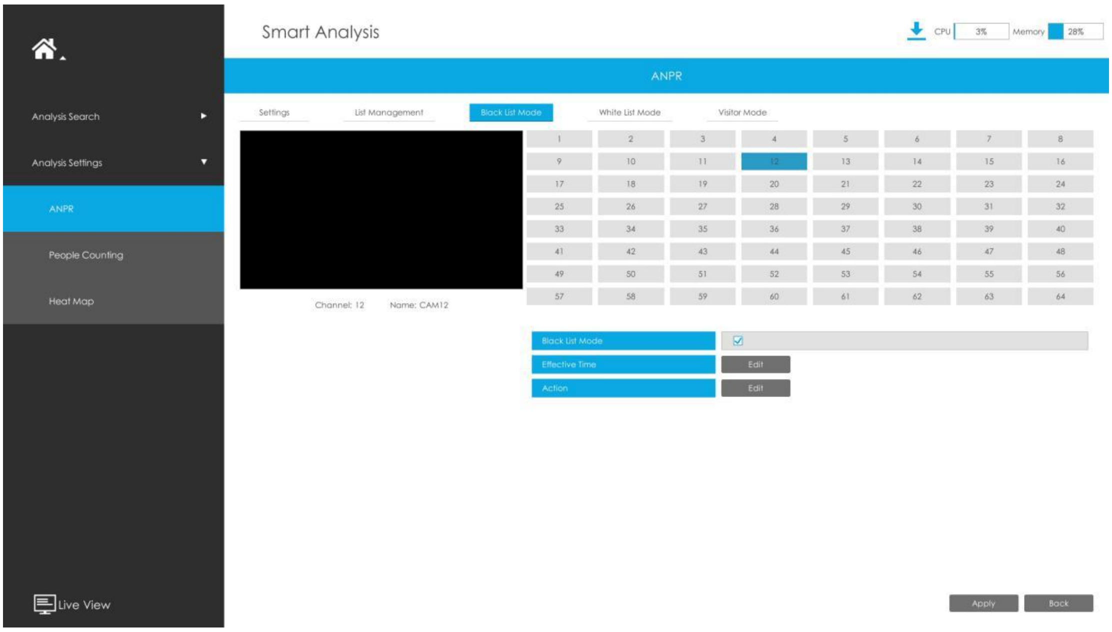
Black List Mode/White List Mode/Visitor Mode

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.



CPU 3% Memory 28%

Channel: 12 Name: CAM12

Black List Mode ☑

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

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

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

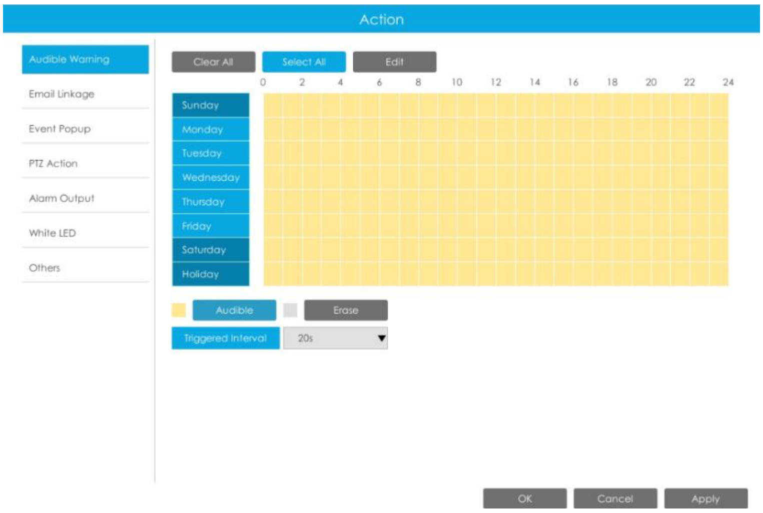
Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

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



Triggered Interval: 20s

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

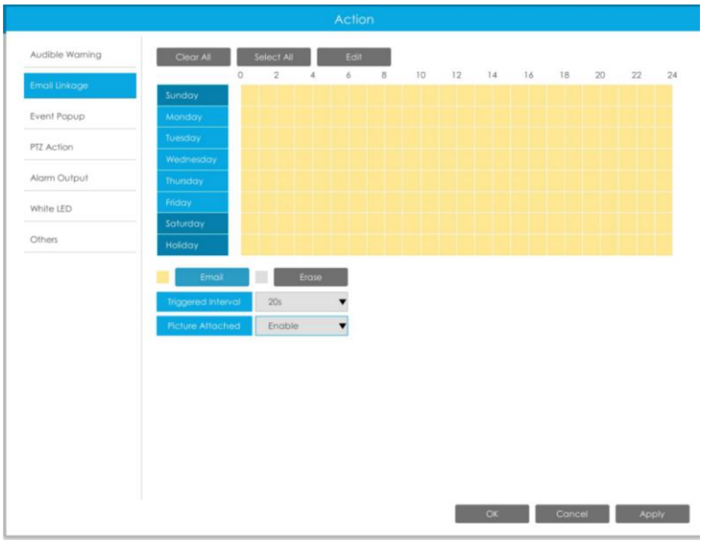
The user can set effective schedule as following two ways:

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.



Triggered Interval: 20s

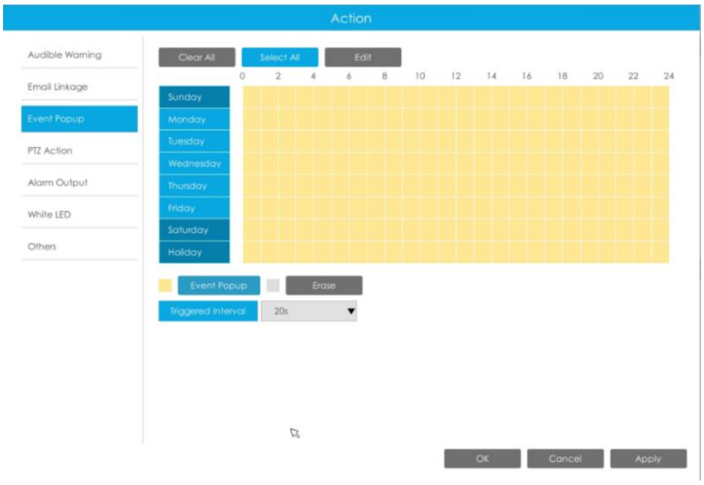
Picture Attached: Enable

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.

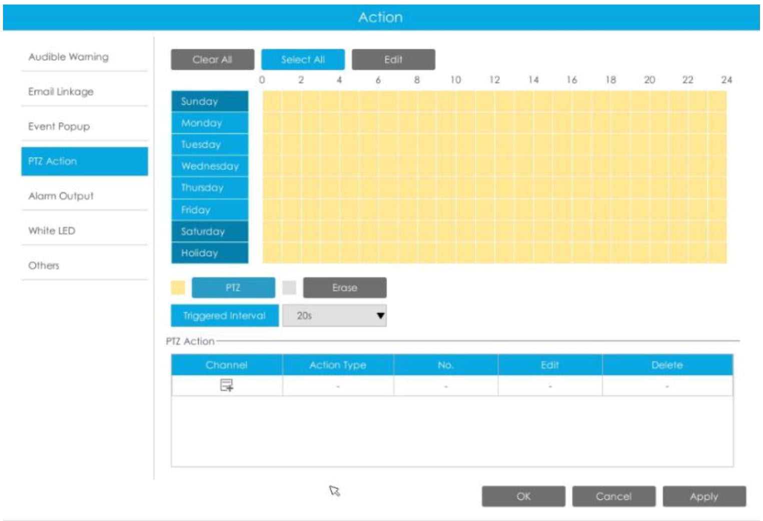


PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** User can set effective schedule as following two ways:

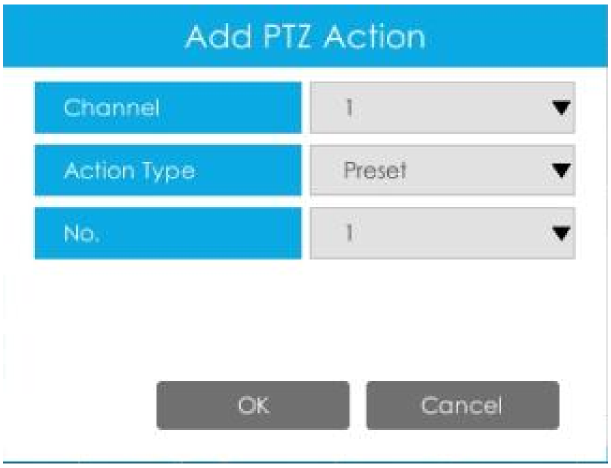
① Select the operation type: PTZ or Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear to set or clear all time settings.

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: 1
Action Type: Preset
No.: 1

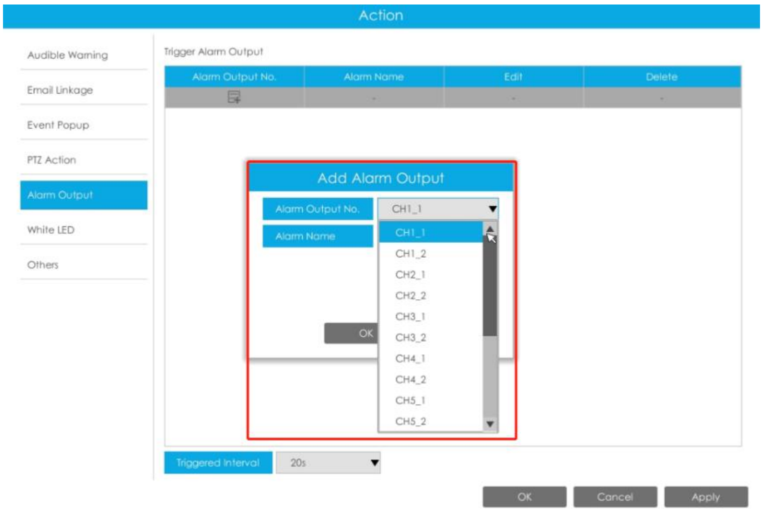
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



Alarm Output No.: CH1_1
Triggered Interval: 20s

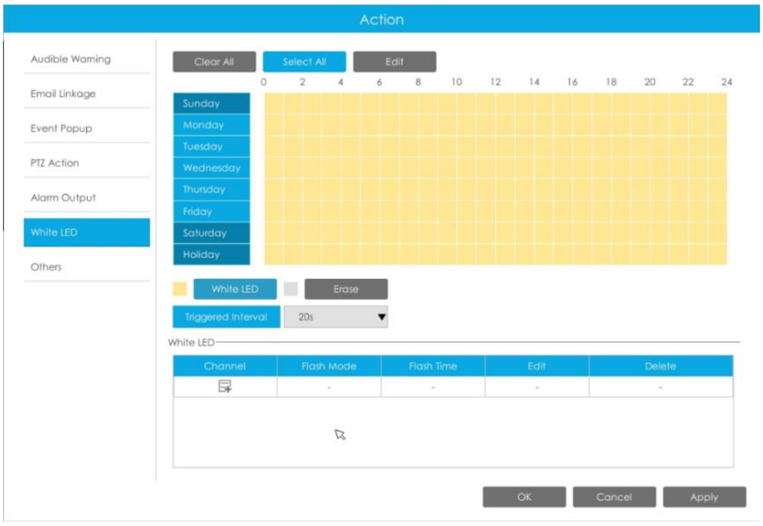
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

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

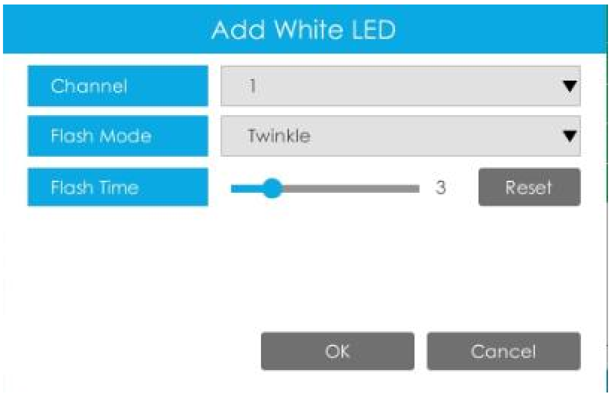
② Click Edit to edit effective time manually.

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



Triggered Interval: 20s

And you can add White LED by clicking .



Channel: 1

Flash Mode: Twinkle

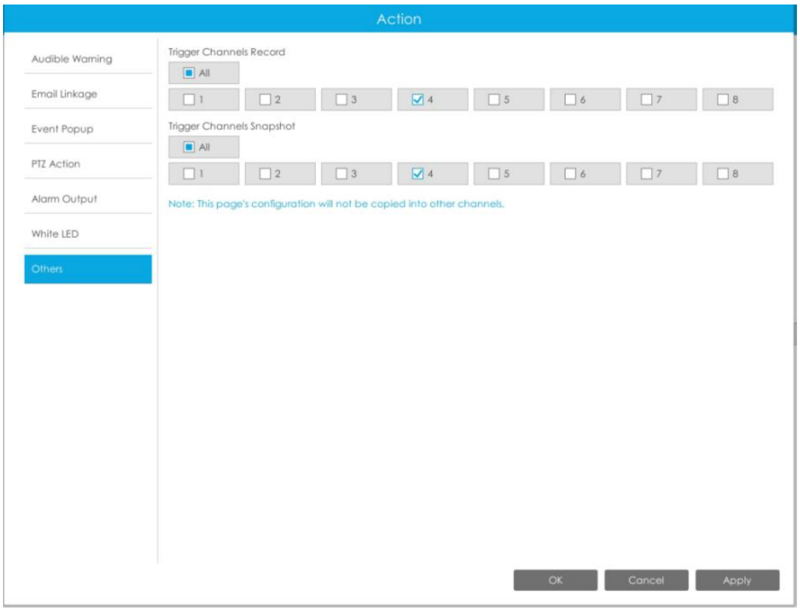
Flash Time: 3

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

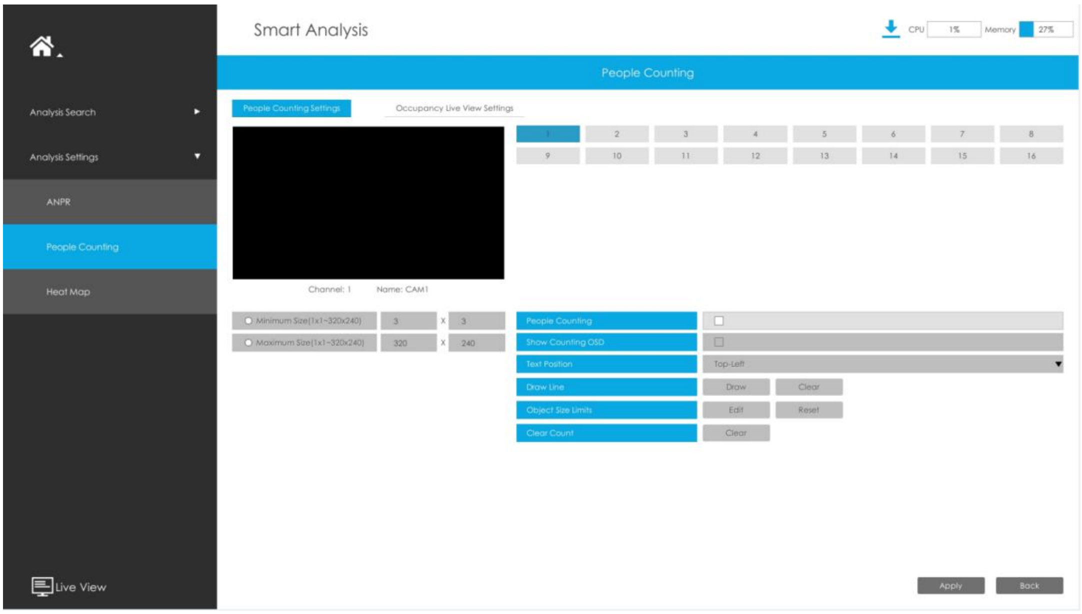
Note:

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

3.5.2.2 People Counting

People Counting Settings

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



Channel: 1 Name: CAM1

○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

People Counting ☐

Show Counting OSD ☐

Text Position Top-Left

Draw Line: Draw, Clear

Object Size Limits: Edit, Reset

Clear Count: Clear

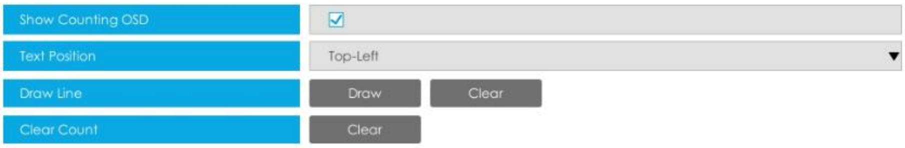
Step 1. Select channel and enable People Counting.

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 Clear.

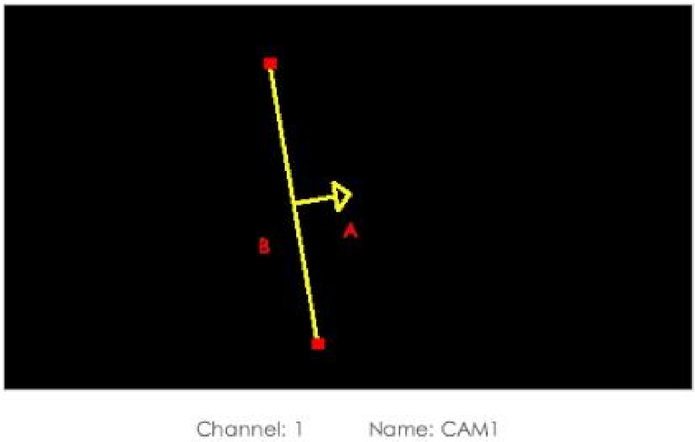


Show Counting OSD	☑
Text Position	Top-Left
Draw Line	Draw Clear
Clear Count	Clear

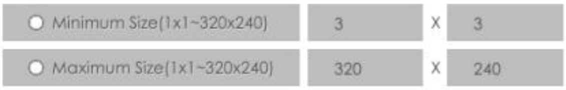
Note:

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

Step 3. Draw detection line.



Step 4. Set Minimum Size and Maximum Size.



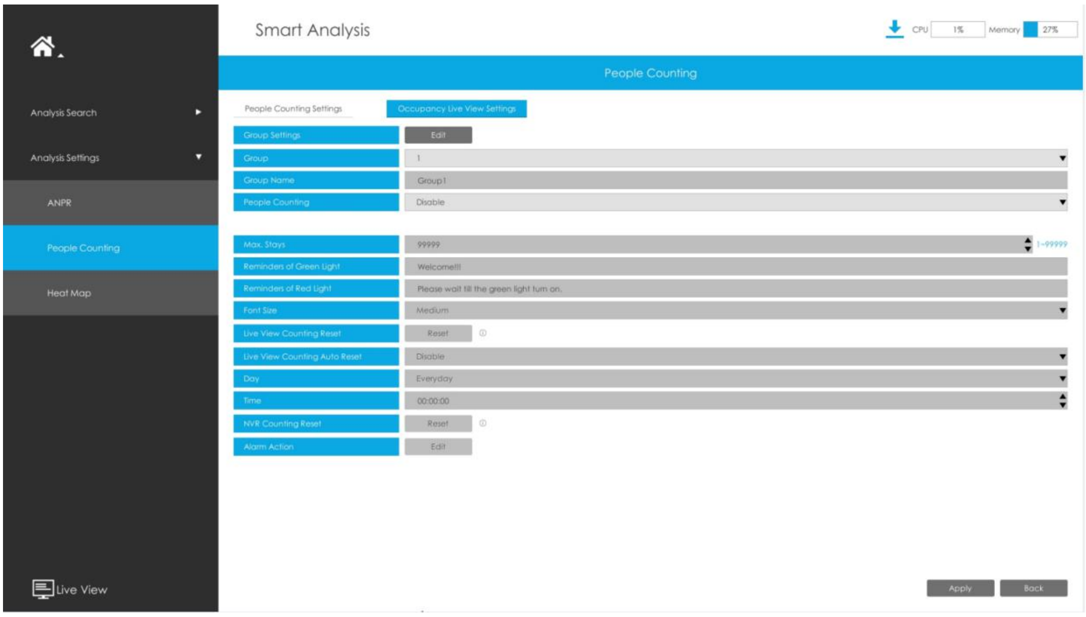
○ Minimum Size(1x1~320x240)	3	X	3
○ Maximum Size(1x1~320x240)	320	X	240

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



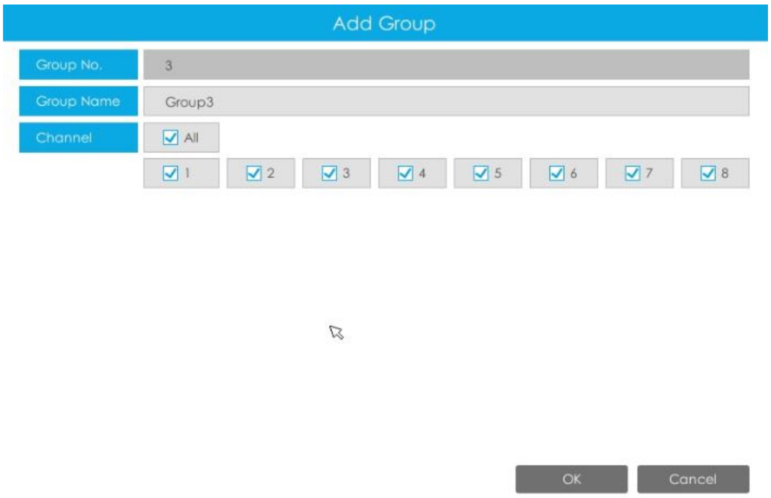
Group Settings: Edit
Group: 1
Group Name: Group1
People Counting: Disable
Max. Stays: 99999 1~99999
Reminders of Green Light: Welcome!!!
Reminders of Red Light: Please wait till the green light turn on.
Font Size: Medium
Live View Counting Reset: Reset
Live View Counting Auto Reset: Disable
Day: Everyday
Time: 00:00:00
NVR Counting Reset: Reset
Alarm Action: Edit

Note:

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

Step 1. Set Group.

Group Settings: Click Edit to pop up the Group Settings interface. Then you can click ⊞ to add Group in the interface, and edit the Group Name and select the Channels to join the Group in the Add Group interface. You can add up to 9 Groups.



Group No.: 3
Group Name: Group3
Channel: ☑ All
☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

Step 2. Select a Group from the added Groups.

Group: 1

Group Name: The corresponding Group Name will be automatically obtained according to the Group No. you choose. You can modify the Group Name by clicking ✎ on the corresponding Group in the Group Settings interface.

Step 3. Enable People Counting for the selected Group.

People Counting: Enable

Step 4. Set the relevant parameters of People Counting.

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

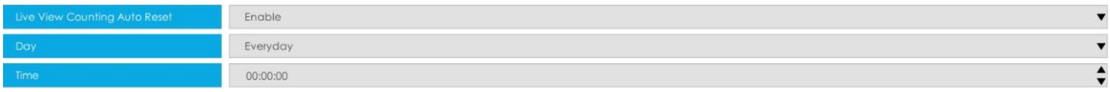
Reminders of Green Light: Set the prompt when Green Light is on in the Occupancy Live View interface, up to 45 characters. The default prompt is “Welcome!!!”.

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

Font Size: Select the font size of the prompt. There are three options: Small, Medium and Large.

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

Live View Counting Auto Reset/Day/Time: The Group counting data is automatically reset at the set time when Live View Counting Auto Reset is enabled.



Live View Counting Auto Reset: Enable
Day: Everyday
Time: 00:00:00

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

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

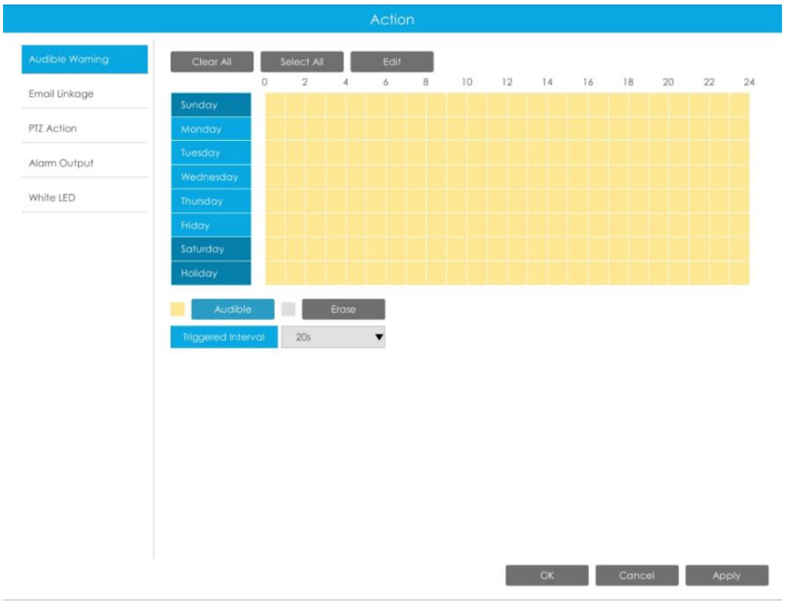
Audible Warning: NVR will trigger an audible beep.

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

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



Triggered Interval: 20s

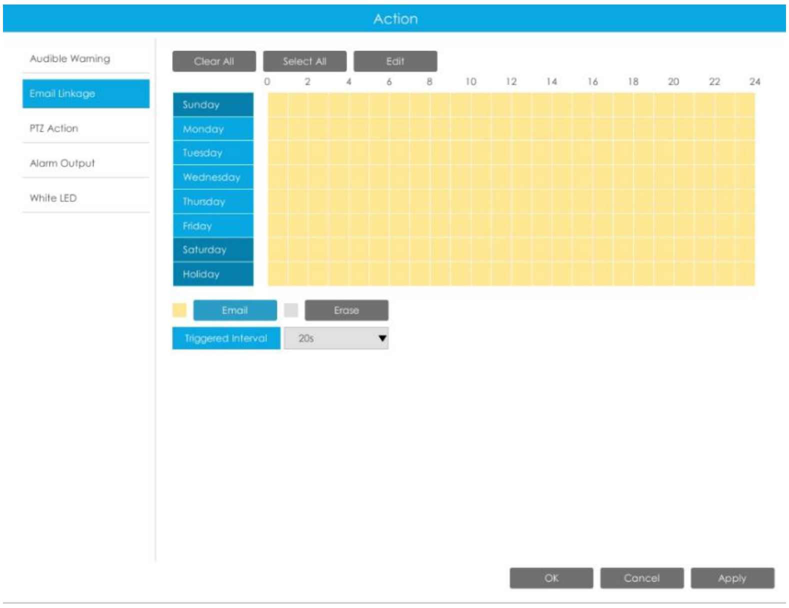
Email Linkage: NVR will send an email to the address you set before.

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.



Triggered Interval: 20s

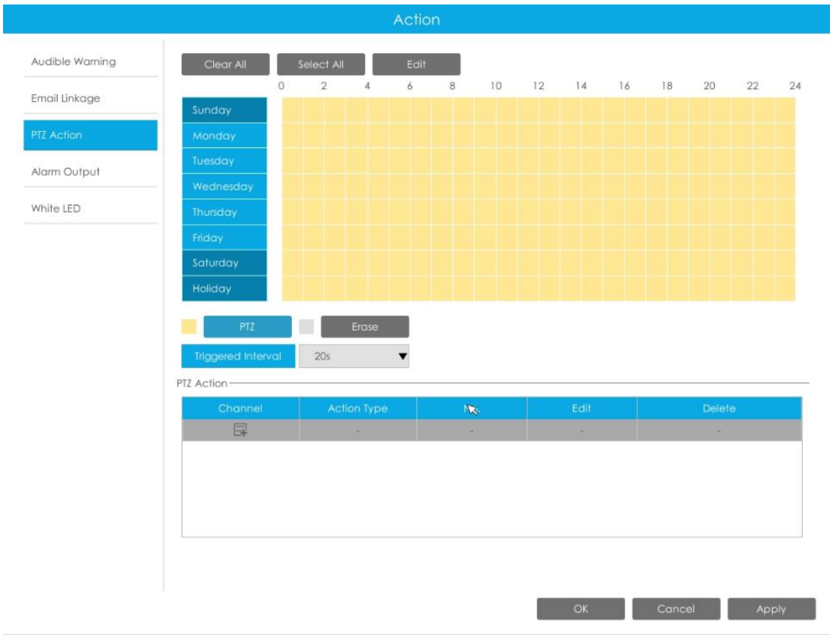
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

User can set effective schedule as following two ways:

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

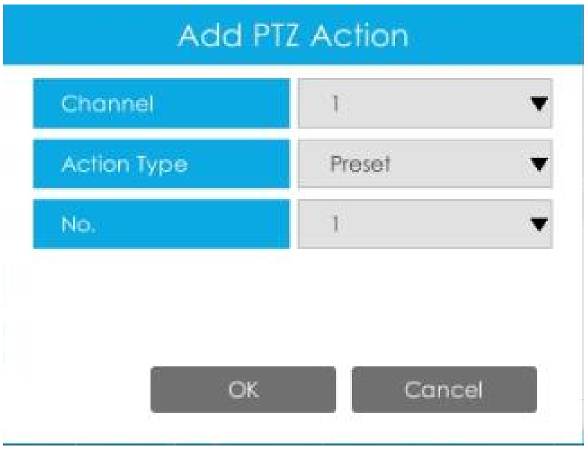
② Click Edit to edit record effective time manually.

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



Triggered Interval 20s

And you can add PTZ Action by clicking .



Channel 1

Action Type Preset

No. 1

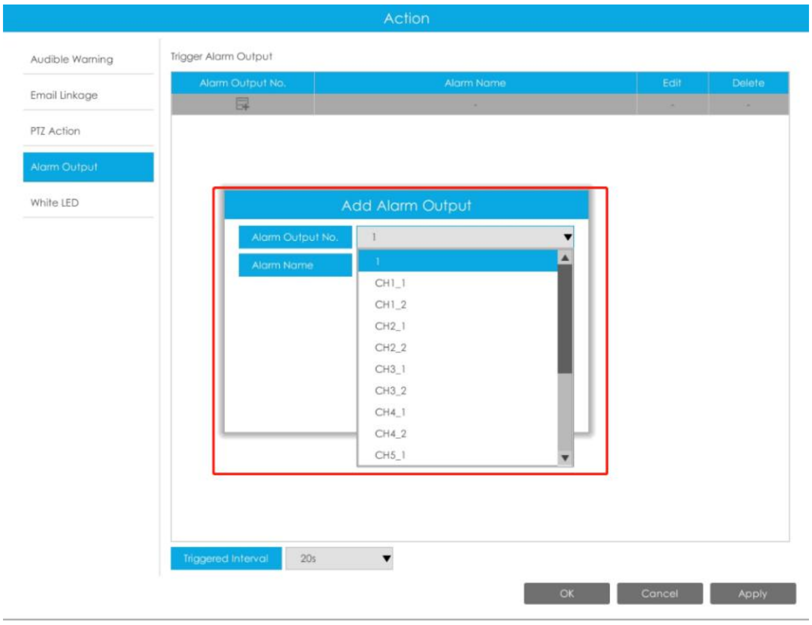
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



Triggered Interval: 20s

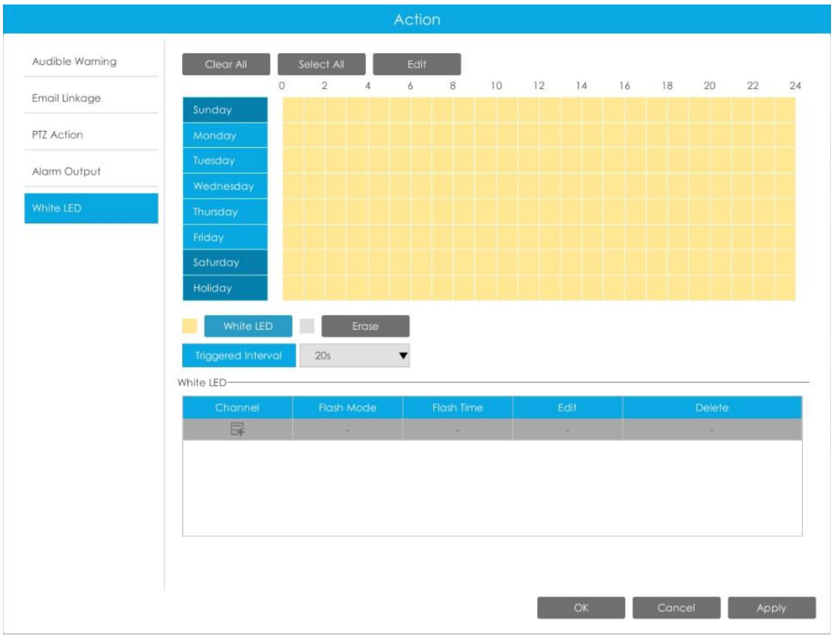
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

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

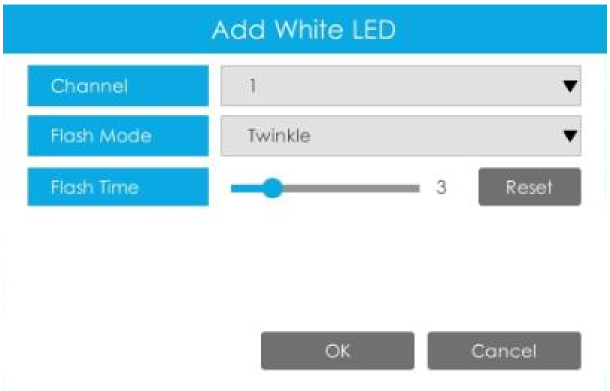
② Click Edit to edit effective time manually.

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



Triggered Interval: 20s

And you can add White LED by clicking .



Channel: 1
Flash Mode: Twinkle
Flash Time: 3

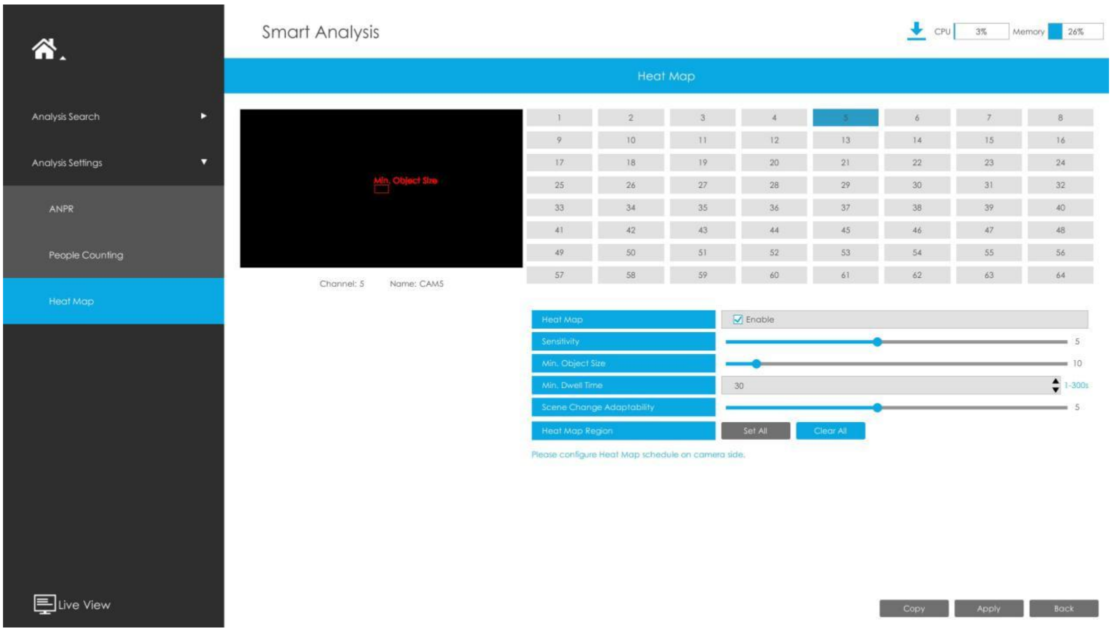
Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

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

3.5.2.3 Heat Map

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



Heat Map: ☑ Enable
Sensitivity: 5
Min. Object Size: 10
Min. Dwell Time: 30 1-300s
Scene Change Adaptability: 5

Please configure Heat Map schedule on camera side.

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:

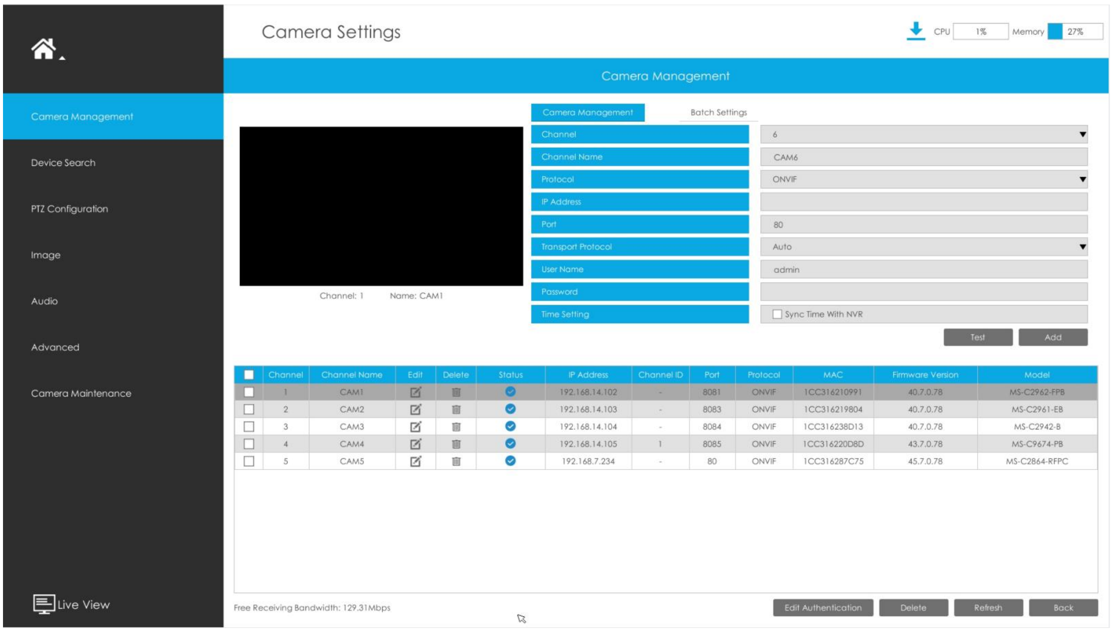
Fisheye: Ensure that the dewarping mode is 1O and the dewarping rule is On-board Dewarping.

Panoramic Mini Bullet: Ensure to turn on the Lens Distort Correct function.

3.6 Camera

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

3.6.1 Camera Management



Channel: 6

Channel Name: CAM6

Protocol: ONVIF

IP Address:

Port: 80

Transport Protocol: Auto

User Name: admin

Password:

Time Setting: ☐ Sync Time With NVR

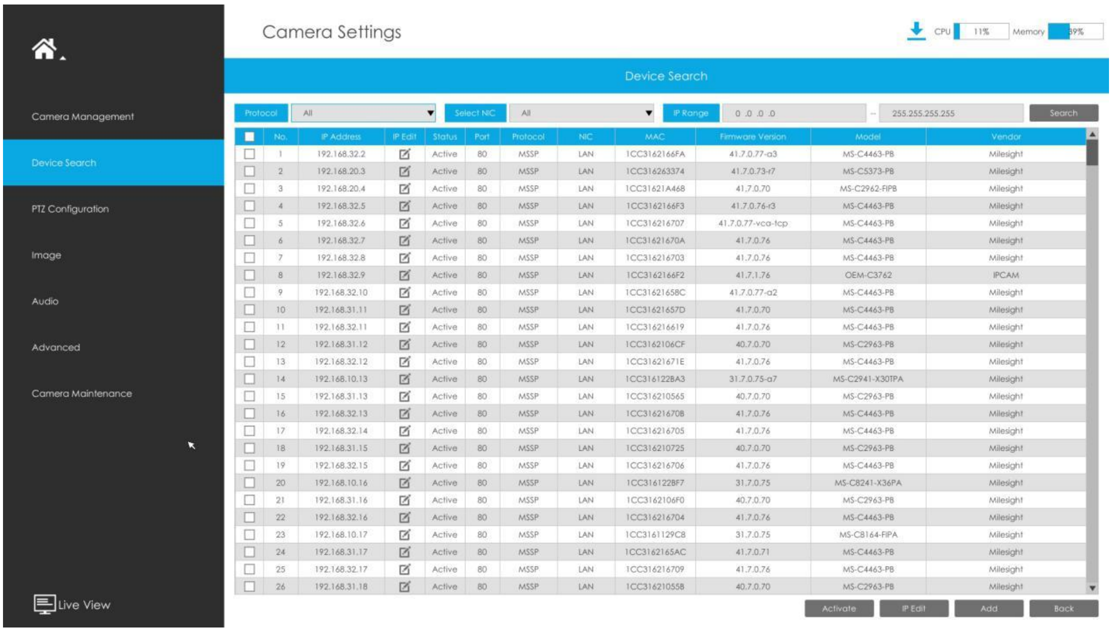
Channel: 1 Name: CAM1

☐	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

Free Receiving Bandwidth: 129.31Mbps

Step 1. Add camera.

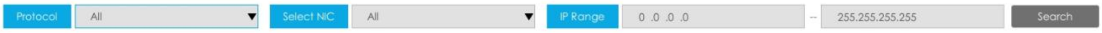
Method 1. Add camera through Device Search interface. ‘Camera’ → ‘Device Search’.



Protocol: All | Select NIC: All | IP Range: 0 .0 .0 .0 -- 255.255.255.255 | Search

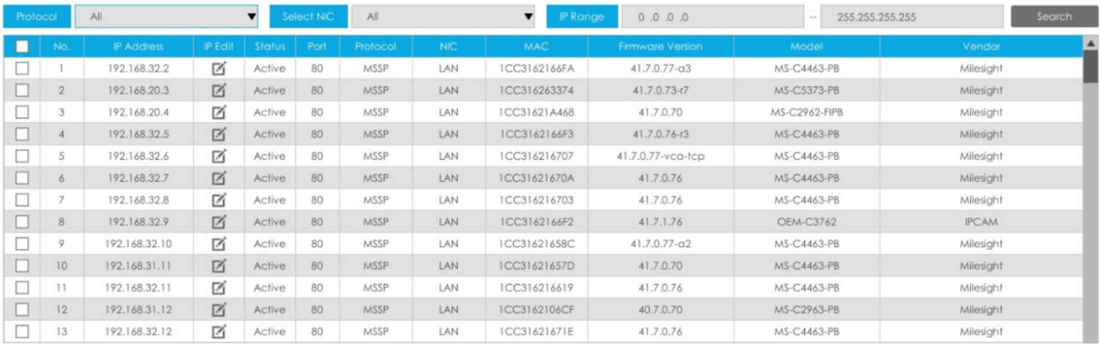
☐	No.	IP Address	IP Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
☐	1	192.168.32.2	✎	Active	80	MSSP	LAN	1CC3162166FA	41.7.0.77-a3	MS-C4463-PB	Milesight
☐	2	192.168.20.3	✎	Active	80	MSSP	LAN	1CC316263374	41.7.0.73-r7	MS-C5373-PB	Milesight
☐	3	192.168.20.4	✎	Active	80	MSSP	LAN	1CC31621A468	41.7.0.70	MS-C2962-FIPB	Milesight
☐	4	192.168.32.5	✎	Active	80	MSSP	LAN	1CC3162166F3	41.7.0.76-r3	MS-C4463-PB	Milesight
☐	5	192.168.32.6	✎	Active	80	MSSP	LAN	1CC316216707	41.7.0.77-vca-tcp	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	1CC3162106CF	40.7.0.70	MS-C2963-PB	Milesight
☐	13	192.168.32.12	✎	Active	80	MSSP	LAN	1CC31621671E	41.7.0.76	MS-C4463-PB	Milesight
☐	14	192.168.10.13	✎	Active	80	MSSP	LAN	1CC316122BA3	31.7.0.75-a7	MS-C2941-X30TPA	Milesight
☐	15	192.168.31.13	✎	Active	80	MSSP	LAN	1CC316210565	40.7.0.70	MS-C2963-PB	Milesight
☐	16	192.168.32.13	✎	Active	80	MSSP	LAN	1CC31621670B	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	1CC316122BF7	31.7.0.75	MS-C8241-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	1CC3161129C8	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	1CC31621055B	40.7.0.70	MS-C2963-PB	Milesight

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



Protocol: All | Select NIC: All | IP Range: 0 .0 .0 .0 -- 255.255.255.255 | Search

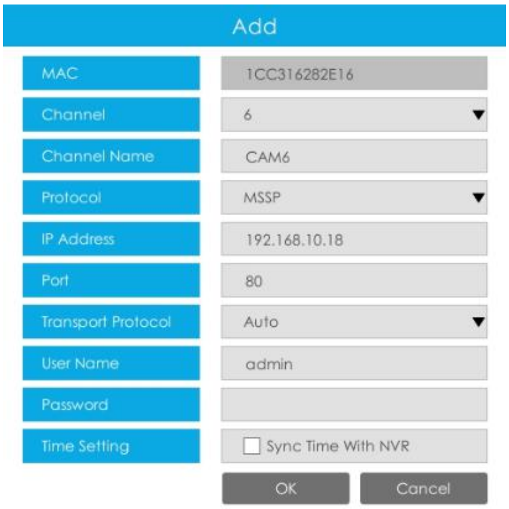
2. Click **Search** button to search cameras at the same LAN with NVR.



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	1CC316263374	41.7.0.73-r7	MS-C5373-PB	Milesight
☐	3	192.168.20.4	✎	Active	80	MSSP	LAN	1CC31621A468	41.7.0.70	MS-C2962-FIPB	Milesight
☐	4	192.168.32.5	✎	Active	80	MSSP	LAN	1CC3162166F3	41.7.0.76-r3	MS-C4463-PB	Milesight
☐	5	192.168.32.6	✎	Active	80	MSSP	LAN	1CC316216707	41.7.0.77-vca-tcp	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	1CC3162106CF	40.7.0.70	MS-C2963-PB	Milesight
☐	13	192.168.32.12	✎	Active	80	MSSP	LAN	1CC31621671E	41.7.0.76	MS-C4463-PB	Milesight

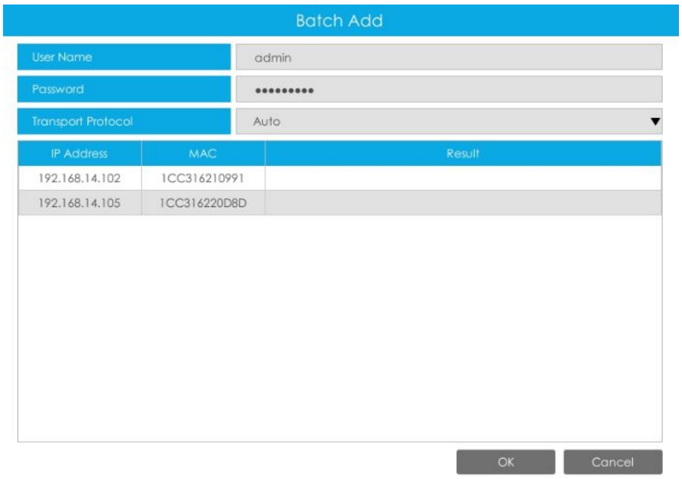
3. Select one channel, click **Add** button, input password and click **Add** button to finish.



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	☐ Sync Time With NVR

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.

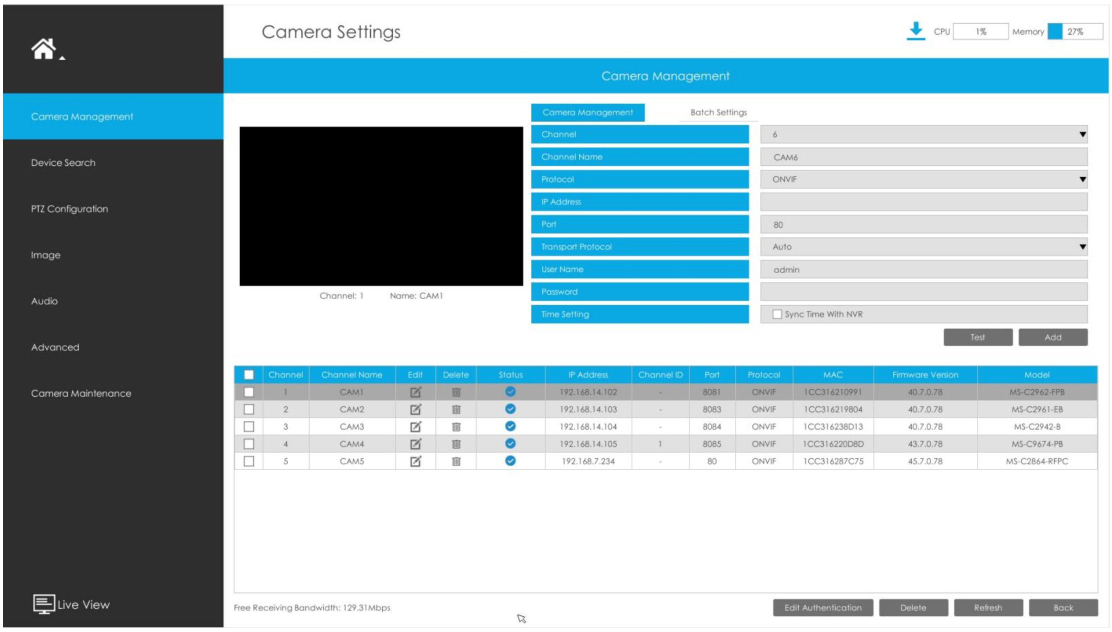


Batch Add

User Name	admin
Password	•••••••••
Transport Protocol	Auto

IP Address	MAC	Result
192.168.14.102	1CC316210991	
192.168.14.105	1CC316220D8D	

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



Camera Settings

CPU 1% Memory 27%

Camera Management

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: 1 Name: CAM1

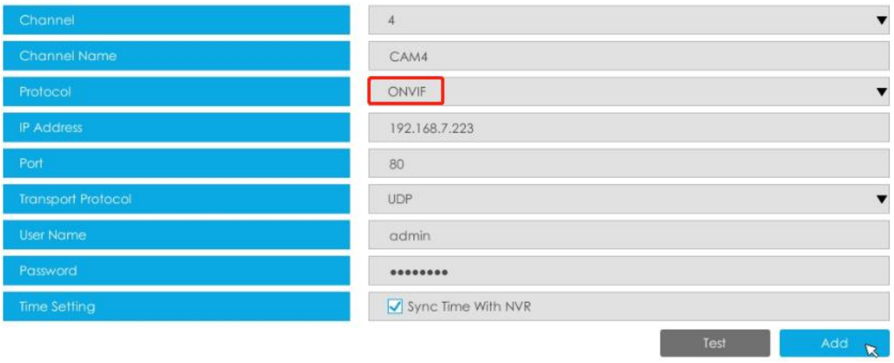
☐	Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
☐	1	CAM1			✓	192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
☐	2	CAM2			✓	192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
☐	3	CAM3			✓	192.168.14.104	-	8084	ONVIF	1CC316238D13	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

Free Receiving Bandwidth: 129.31Mbps

Select channel ID, input complete information, then click [Add] button.

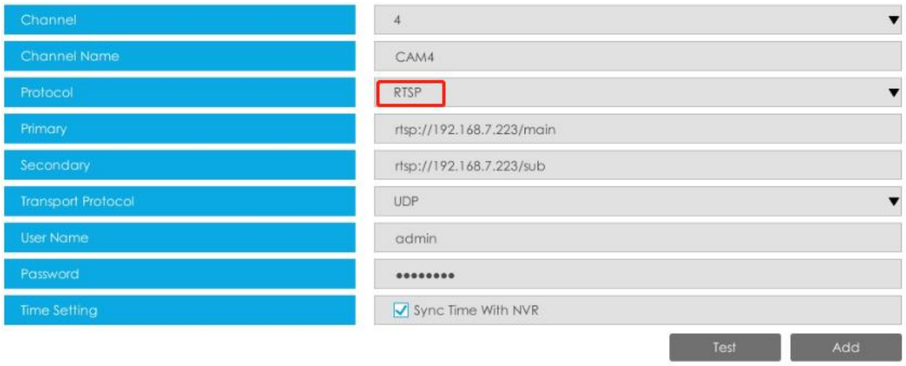
There are three protocols available for camera connection:

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



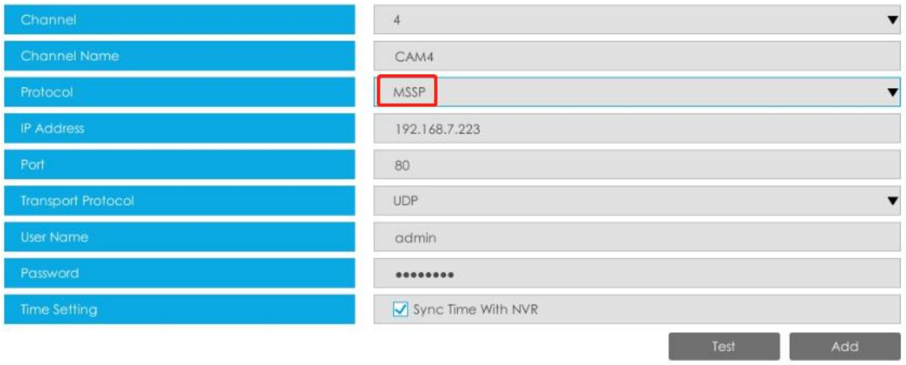
Channel	4
Channel Name	CAM4
Protocol	ONVIF
IP Address	192.168.7.223
Port	80
Transport Protocol	UDP
User Name	admin
Password	••••••••
Time Setting	☑ Sync Time With NVR

- **RTSP:** You can add any IP cameras with RTSP protocol streams (Port: 554). It needs you to input complete resource path of the IP camera to add it. Take Milesight device for example, the resource path of main stream is “rtsp://IP:port/main” and secondary stream is “rtsp://IP:port/sub”. The length of RTSP can be up to 128 bits.



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

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

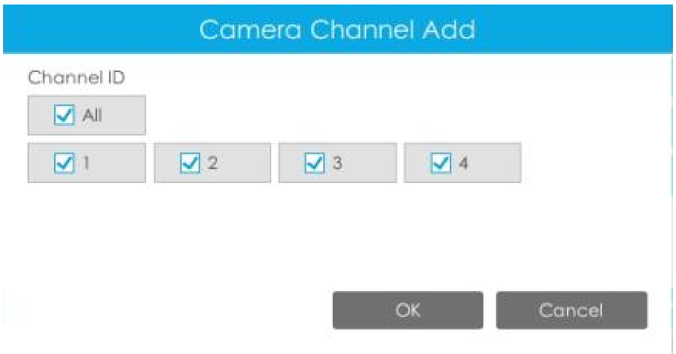


Channel	4
Channel Name	CAM4
Protocol	MSSP
IP Address	192.168.7.223
Port	80
Transport Protocol	UDP
User Name	admin
Password	••••••••
Time Setting	☑ Sync Time With NVR

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

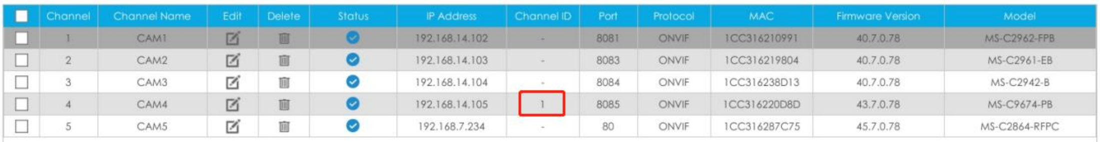


Channel ID

☑ All

☑ 1 ☑ 2 ☑ 3 ☑ 4

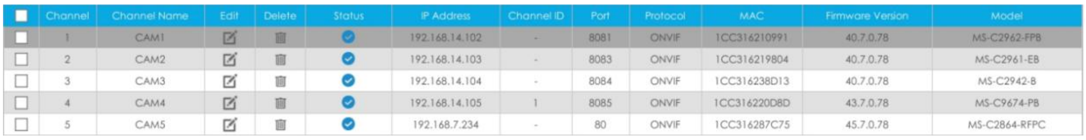
2. Only Fisheye camera has Channel ID.



☐	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

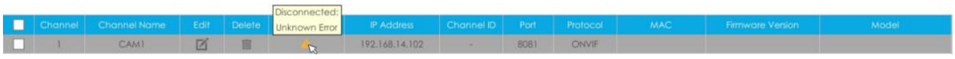
Step 2. Check the connection status.

After adding the IP channels, click Refresh 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.



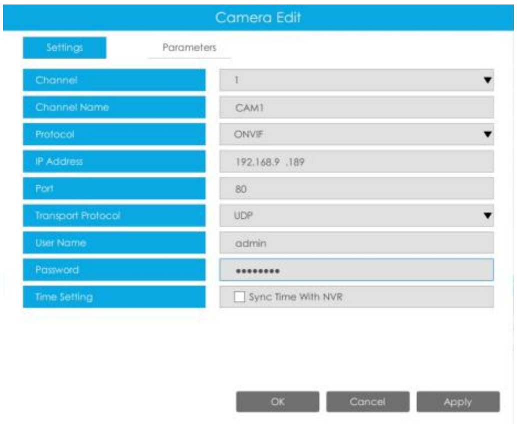
Disconnected: Unknown Error

☐	Channel	Channel Name	Edit	Delete	Status	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.



Channel: 1

Channel Name: CAM1

Protocol: ONVIF

IP Address: 192.168.9 .189

Port: 80

Transport Protocol: UDP

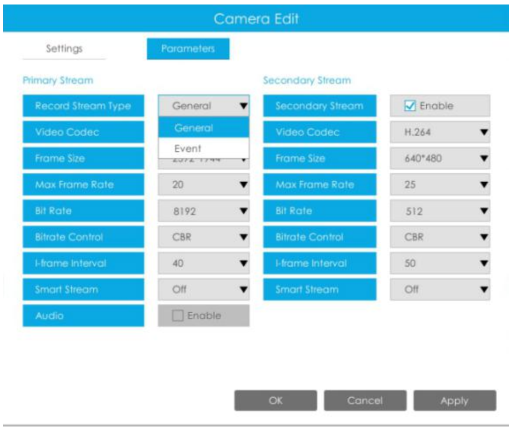
User Name: admin

Password: ••••••••

Time Setting: ☐ Sync Time With NVR

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

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



Primary Stream

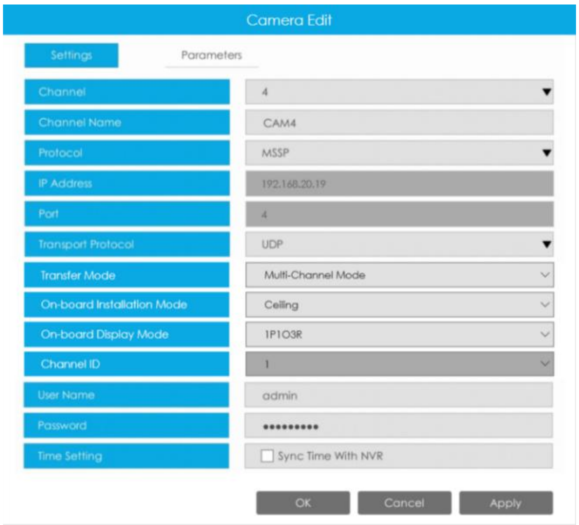
Record Stream Type: General
Video Codec
Frame Size
Max Frame Rate: 20
Bit Rate: 8192
Bitrate Control: CBR
I-frame Interval: 40
Smart Stream: Off
Audio: ☐ Enable

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

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.

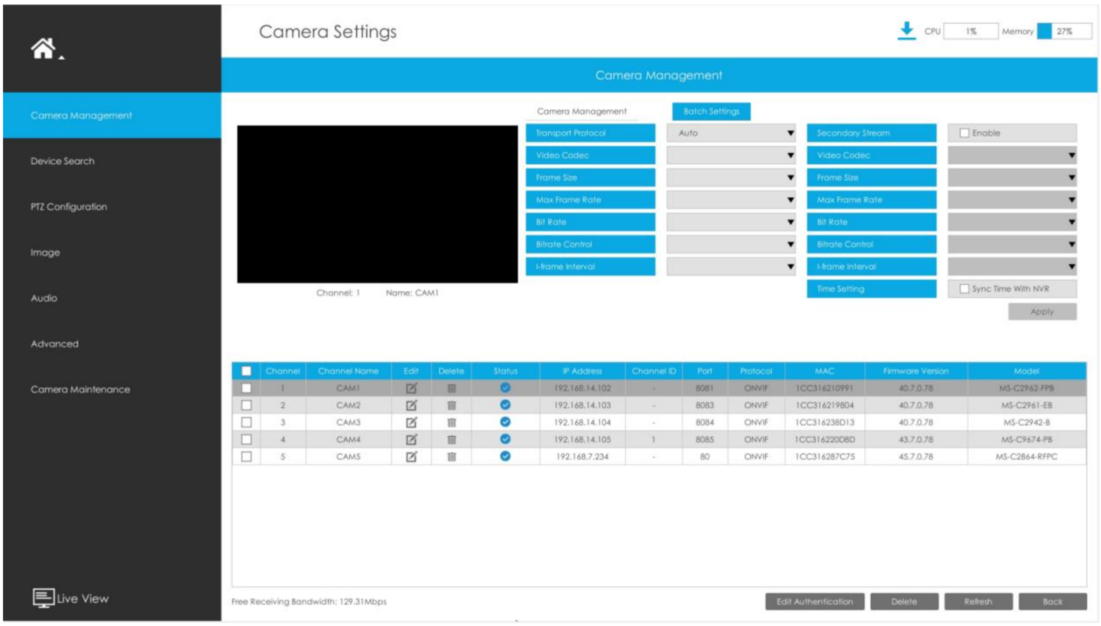


Channel: 4
Channel Name: CAM4
Protocol: MSSP
IP Address: 192.168.20.19
Port: 4
Transport Protocol: UDP
Transfer Mode: Multi-Channel Mode
On-board Installation Mode: Ceiling
On-board Display Mode: 1P1O3R
Channel ID: 1
User Name: admin
Password: •••••••••
Time Setting: ☐ Sync Time With NVR

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

Batch configuring camera

Click Batch Settings , select multiple channels and set parameters of cameras.



Transport Protocol	Auto
Video Codec	
Frame Size	
Max Frame Rate	
Bit Rate	
Bitrate Control	
I-frame Interval	

Secondary Stream	☐ Enable
Video Codec	
Frame Size	
Max Frame Rate	
Bit Rate	
Bitrate Control	
I-frame Interval	
Time Setting	☐ Sync Time With NVR

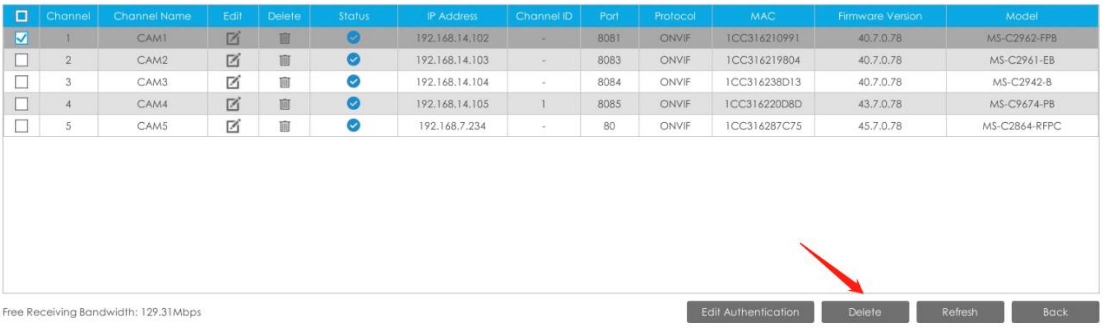
Channel: 1 Name: CAM1

☐	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

Free Receiving Bandwidth: 129.31Mbps

Step 4. Delete camera.

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
☑	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

Free Receiving Bandwidth: 129.31Mbps

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

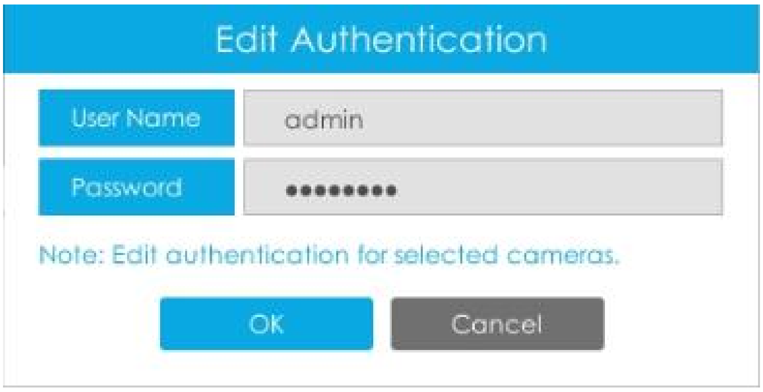
in Multi-stream Mode, it would add all channels by default.

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.



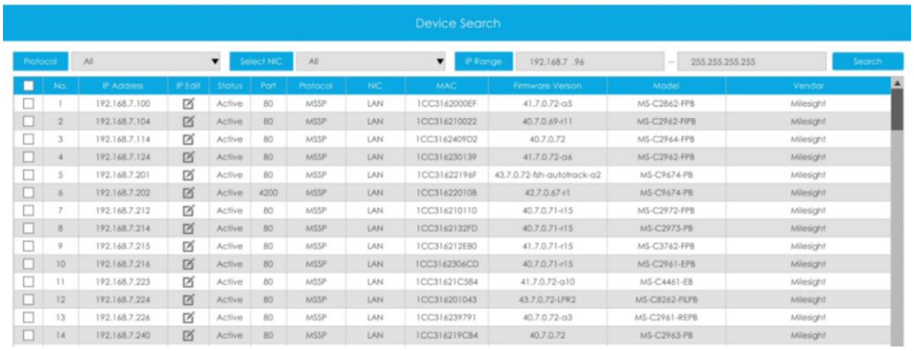
User Name: admin

Password: •••••••••

Note: Edit authentication for selected cameras.

3.6.2 Device Search

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



Protocol: All

Select NIC: All

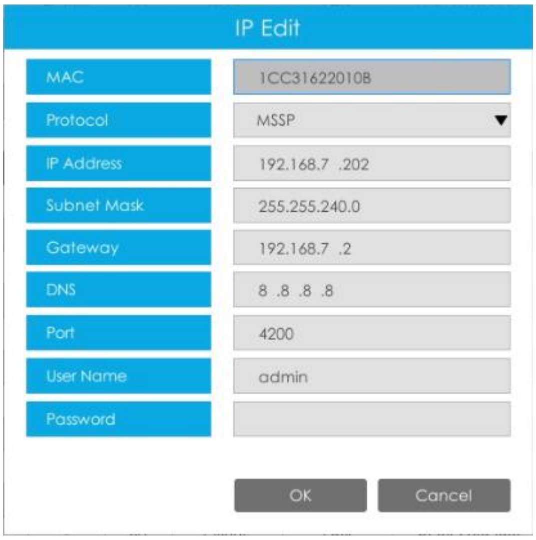
IP Range: 192.168.7 .96 – 255.255.255.255

☐	No.	IP Address	IP Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
☐	1	192.168.7.100	✎	Active	80	MSSP	LAN	1CC3162000EF	41.7.0.72-a5	MS-C2862-FPB	Milesight
☐	2	192.168.7.104	✎	Active	80	MSSP	LAN	1CC316210022	40.7.0.69-r11	MS-C2962-FIPB	Milesight
☐	3	192.168.7.114	✎	Active	80	MSSP	LAN	1CC3162409D2	40.7.0.72	MS-C2964-FPB	Milesight
☐	4	192.168.7.124	✎	Active	80	MSSP	LAN	1CC316230139	41.7.0.72-a6	MS-C2962-FPB	Milesight
☐	5	192.168.7.201	✎	Active	80	MSSP	LAN	1CC31622196F	43.7.0.72-fsh-autotrack-a2	MS-C9674-PB	Milesight
☐	6	192.168.7.202	✎	Active	4200	MSSP	LAN	1CC316220108	42.7.0.67-r1	MS-C9674-PB	Milesight
☐	7	192.168.7.212	✎	Active	80	MSSP	LAN	1CC316210110	40.7.0.71-r15	MS-C2972-FPB	Milesight
☐	8	192.168.7.214	✎	Active	80	MSSP	LAN	1CC3162132FD	40.7.0.71-r15	MS-C2973-PB	Milesight
☐	9	192.168.7.215	✎	Active	80	MSSP	LAN	1CC316212E80	41.7.0.71-r15	MS-C3762-FPB	Milesight
☐	10	192.168.7.216	✎	Active	80	MSSP	LAN	1CC3162306CD	40.7.0.71-r15	MS-C2961-EPB	Milesight
☐	11	192.168.7.223	✎	Active	80	MSSP	LAN	1CC31621C584	41.7.0.72-a10	MS-C4461-EB	Milesight
☐	12	192.168.7.224	✎	Active	80	MSSP	LAN	1CC316201043	43.7.0.72-LPR2	MS-C8262-FILPB	Milesight
☐	13	192.168.7.226	✎	Active	80	MSSP	LAN	1CC316239791	40.7.0.72-a3	MS-C2961-REPB	Milesight
☐	14	192.168.7.240	✎	Active	80	MSSP	LAN	1CC316219C84	40.7.0.72	MS-C2963-PB	Milesight

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

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

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



IP Edit

MAC	1CC31622010B
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	

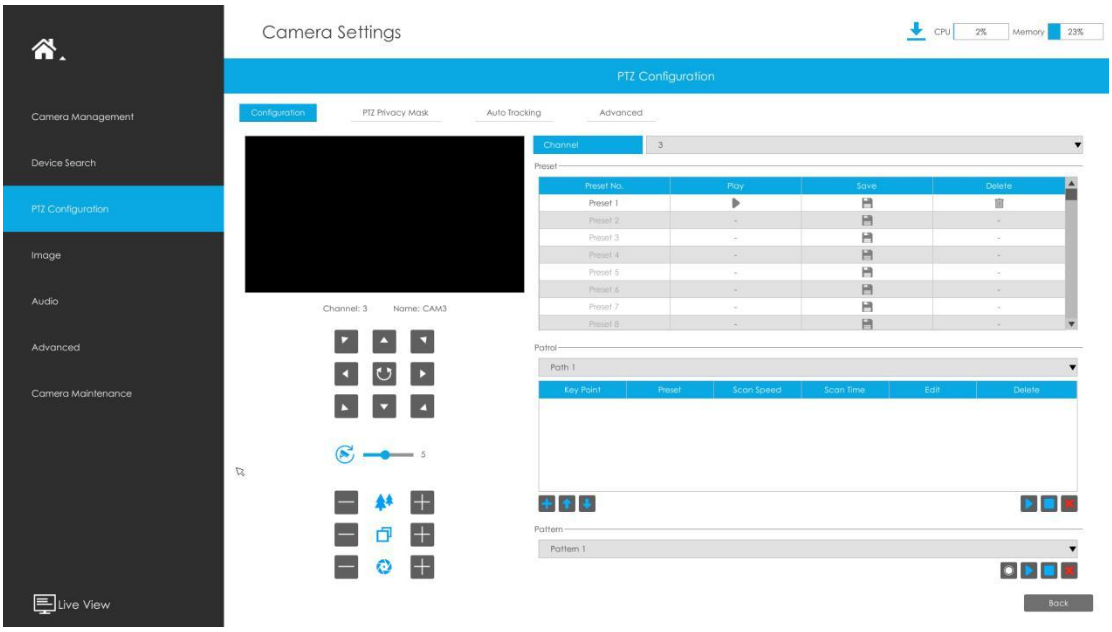
3.6.3 PTZ Configuration

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.



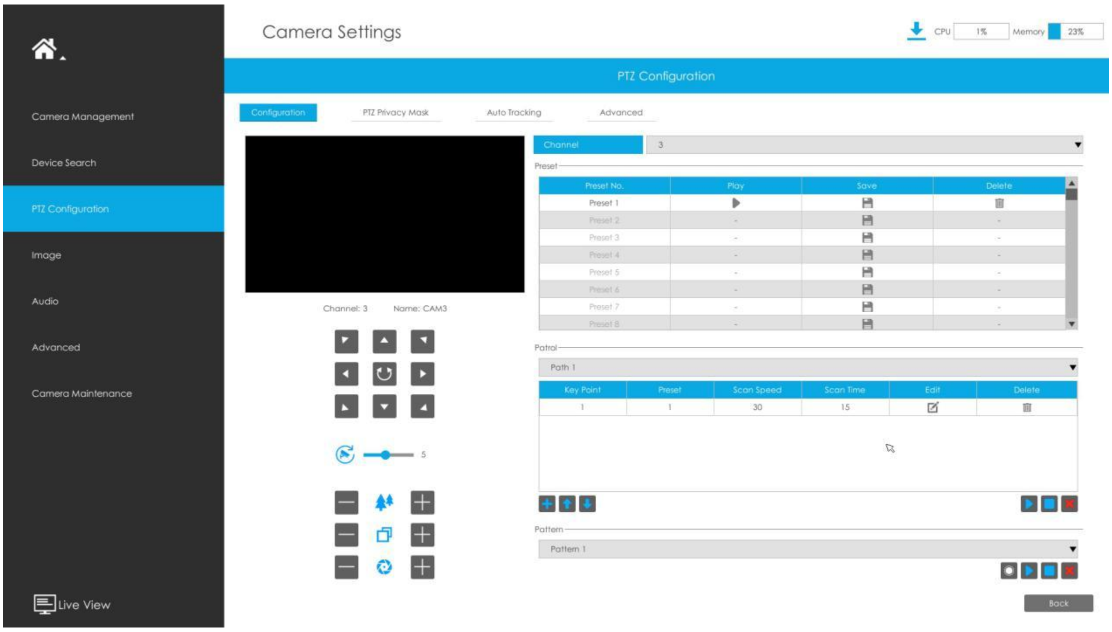
Step 2. Choose a preset number and click 🗑 to delete the preset position.

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.



Channel: 3

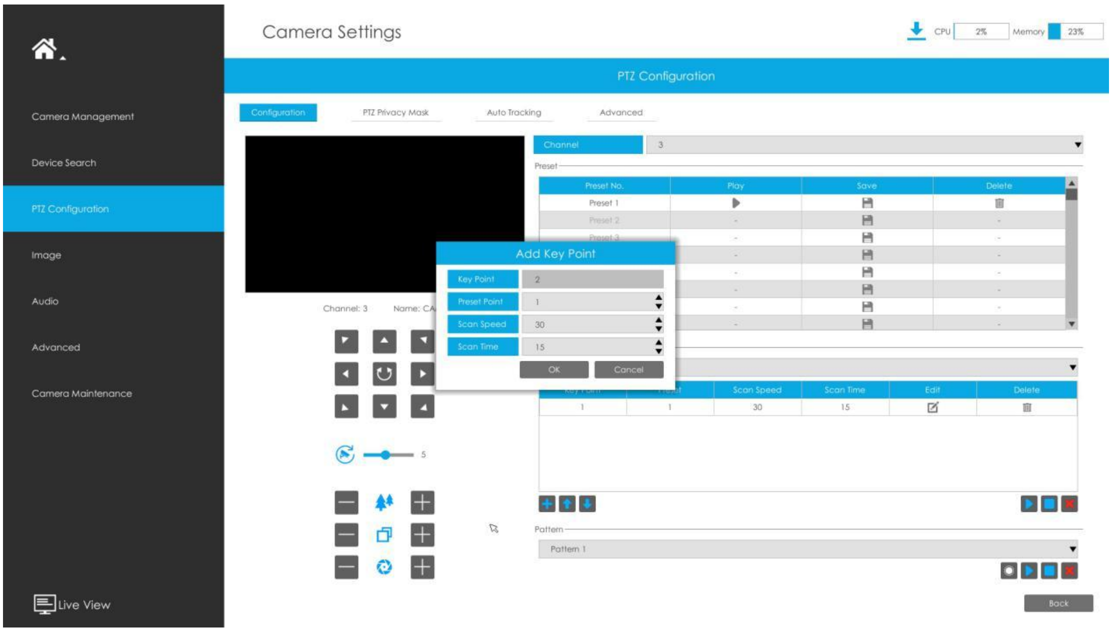
Preset No.	Play	Save	Delete
Preset 1	▶	💾	🗑
Preset 2	-	💾	-
Preset 3	-	💾	-
Preset 4	-	💾	-
Preset 5	-	💾	-
Preset 6	-	💾	-
Preset 7	-	💾	-
Preset 8	-	💾	-

Path 1

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

Pattern 1

Step 2. Click + to add preset position (up to 48 positions could be added). Set the parameters of preset positions, including preset position number, scan time and scan speed, then click OK.



Add Key Point

Key Point: 2
Preset Point: 1
Scan Speed: 30
Scan Time: 15

Step 3. Click 🗑 to delete the preset position.

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

Step5. Click ✕ to delete all preset positions of the path patrol.

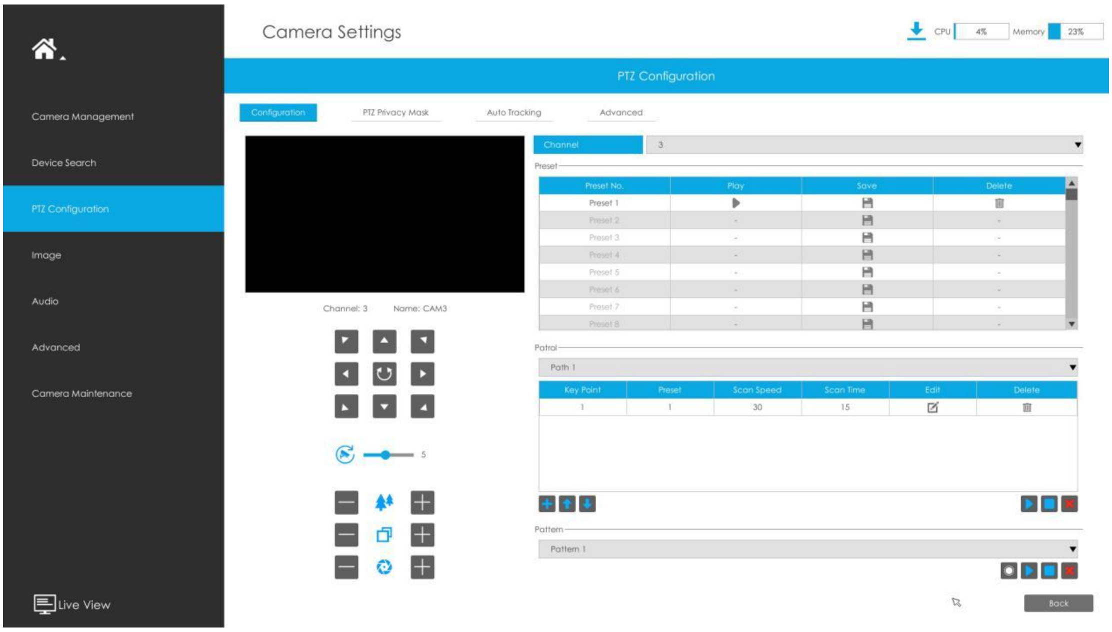
Note:

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.



Channel: 3 Name: CAM3

Channel 3

Preset

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

Patrol

Path 1

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

Pattern

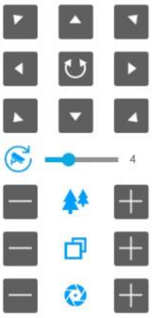
Pattern 1

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.

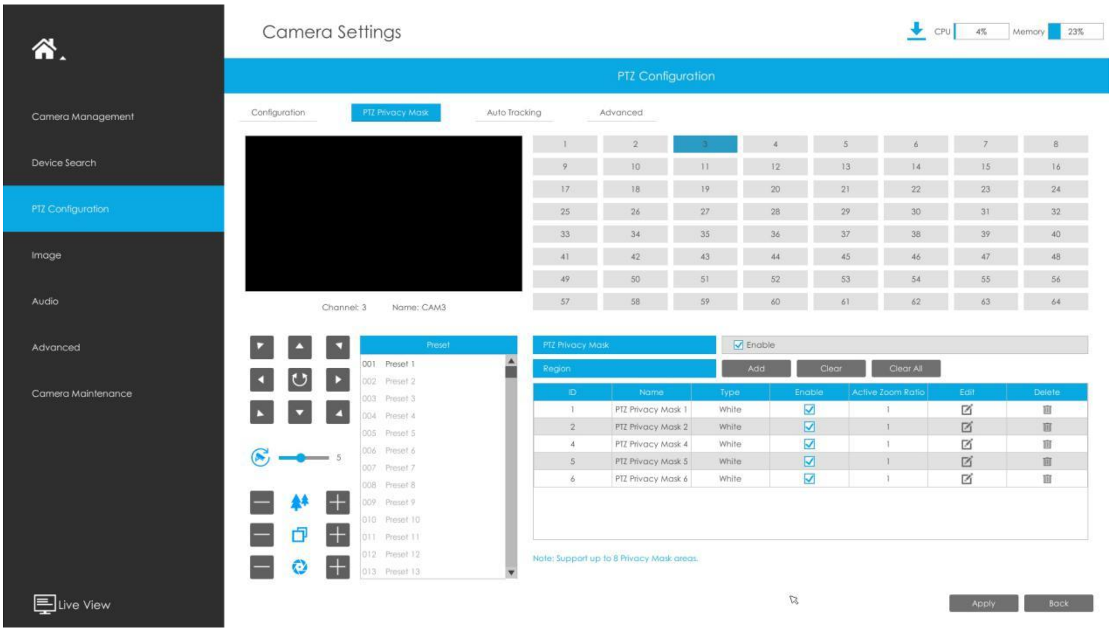
[PTZ Operation]



Icons	Descriptions	Icons	Descriptions
◤ ▲ ◥ ◀ ↻ ▶ ◣ ▼ ◢	PTZ direction control and auto scan button	⊛	PTZ speed
+	Zoom +, Focus +, Iris +	−	Zoom -, Focus -, Iris -
♣	Zoom	⧉	Focus
◎	Iris		

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.



Channel: 3 Name: CAM3

PTZ Privacy Mask ☑ Enable

Region

ID	Name	Type	Enable	Active Zoom Ratio	Edit	Delete
1	PTZ Privacy Mask 1	White	☑	1	✎	🗑
2	PTZ Privacy Mask 2	White	☑	1	✎	🗑
4	PTZ Privacy Mask 4	White	☑	1	✎	🗑
5	PTZ Privacy Mask 5	White	☑	1	✎	🗑
6	PTZ Privacy Mask 6	White	☑	1	✎	🗑

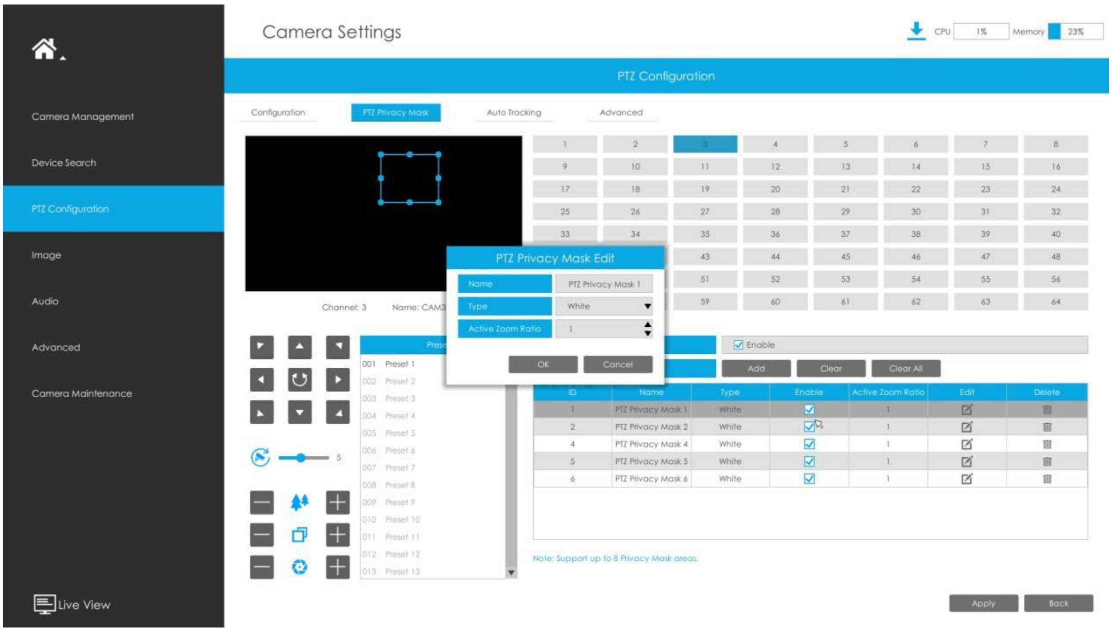
Note: Support up to 8 Privacy Mask areas.

You can add a privacy mask by following steps:

Step 1. Select channel and enable Privacy Mask.

Step 2. Drag the mouse to select the area which needs to be protected on the live view window and click Add to save the selected areas. You can add 8 areas at most and each zone can be enabled and disabled.

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



Name: PTZ Privacy Mask 1
Type: White
Active Zoom Ratio: 1
☑ Enable

ID	Name	Type	Enable	Active Zoom Ratio	Edit	Delete
1	PTZ Privacy Mask 1	White	☑	1		
2	PTZ Privacy Mask 2	White	☑	1		
4	PTZ Privacy Mask 4	White	☑	1		
5	PTZ Privacy Mask 5	White	☑	1		
6	PTZ Privacy Mask 6	White	☑	1		

Note: Support up to 8 Privacy Mask areas.

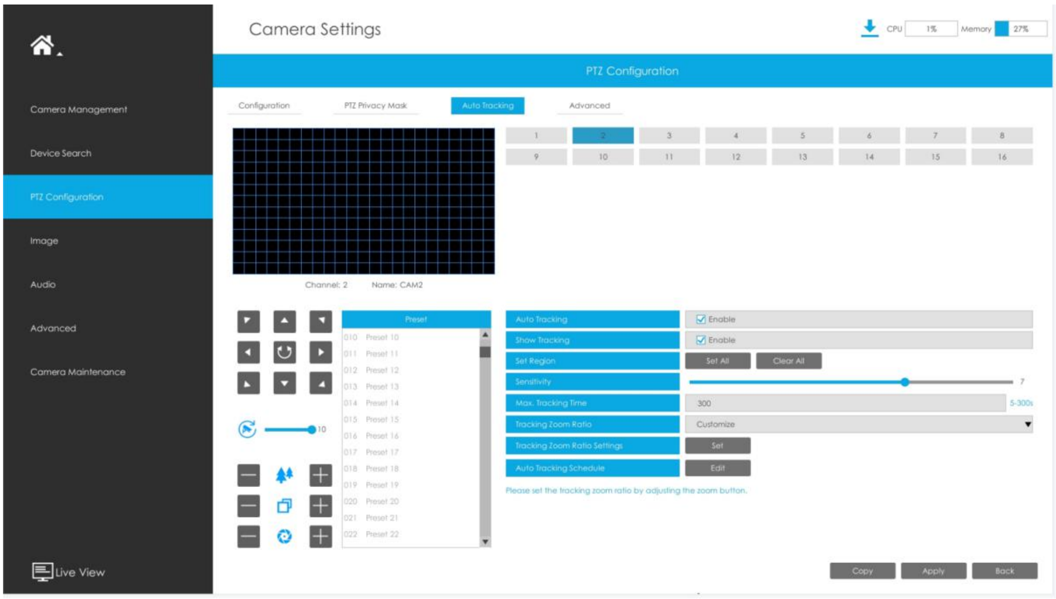
Step 4. Select "Apply" to save the settings.

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.



Auto Tracking: ☑ Enable
Show Tracking: ☑ Enable
Sensitivity: 7
Max. Tracking Time: 300 5-300s
Tracking Zoom Ratio: Customize

Please set the tracking zoom ratio by adjusting the zoom button.

Step1. Check the checkbox to enable Auto Tracking.

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

Step3. Set detection region.

Step4. Set detecting sensitivity.

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

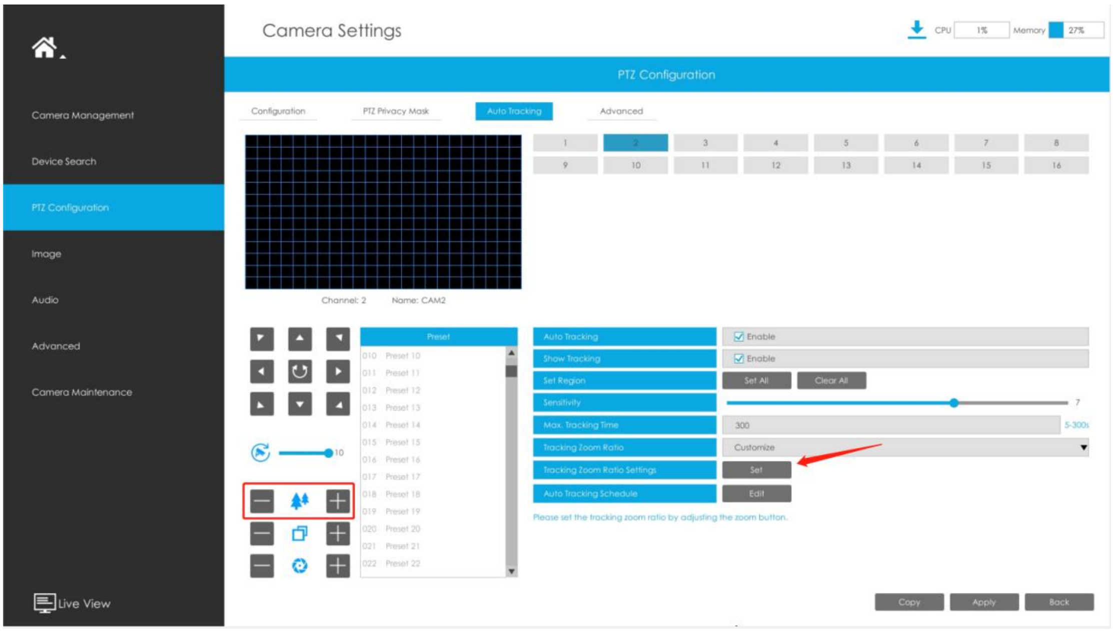
Step6. Select Tracking Zoom Ratio, which includes Auto Mode and Customize.

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

● How to set Customize Tracking Zoom Ratio:

① Set zoom ratio by ⊟ ⊞ button.

② Click Set to save your configuration.



Auto Tracking: ☑ Enable

Show Tracking: ☑ Enable

Set Region: Set All | Clear All

Sensitivity: 7

Max. Tracking Time: 300 (5-300s)

Tracking Zoom Ratio: Customize

Tracking Zoom Ratio Settings: Set

Auto Tracking Schedule: Edit

Please set the tracking zoom ratio by adjusting the zoom button.

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

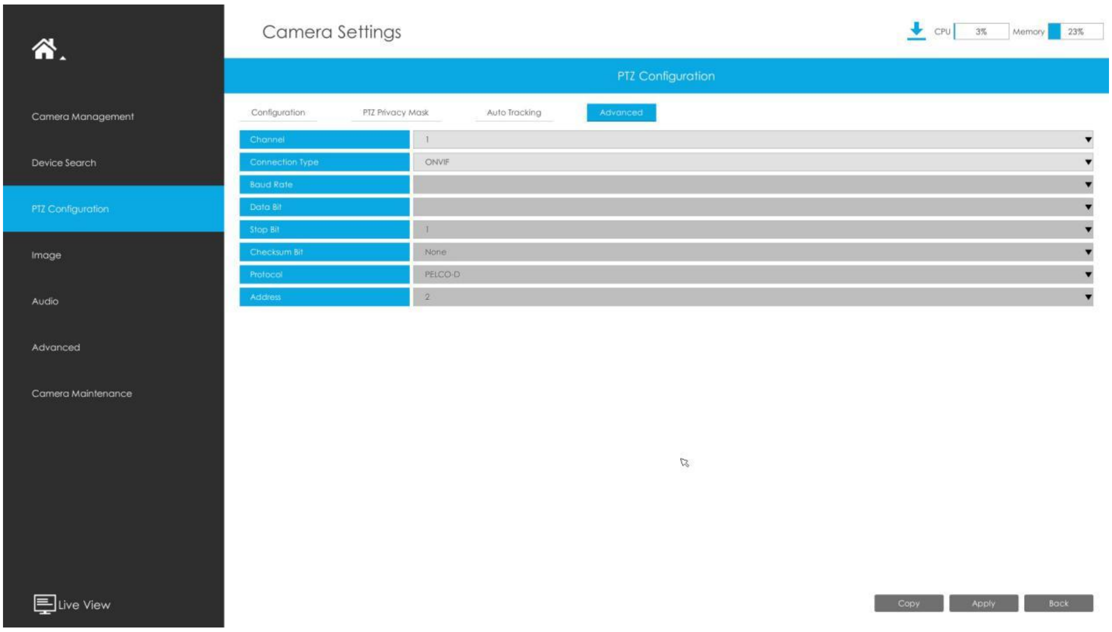
Step6. Click Apply to apply configurations.

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 Copy to copy the same configuration to other channels.

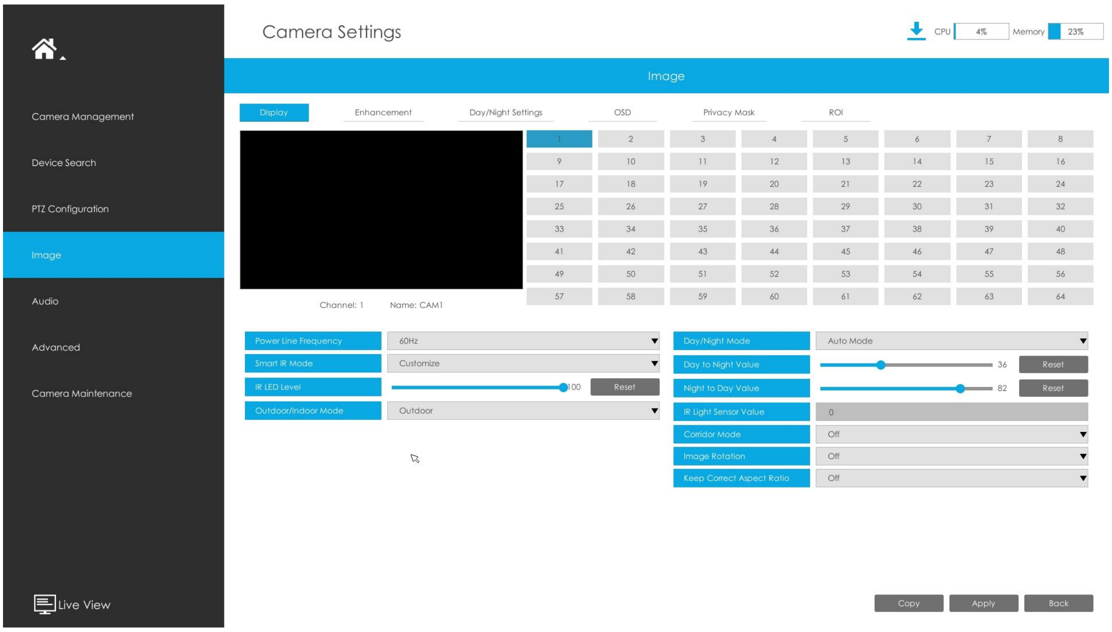


Channel: 1
Connection Type: ONVIF
Baud Rate:
Data Bit:
Stop Bit: 1
Checksum Bit: None
Protocol: PELCO-D
Address: 2

Note:

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

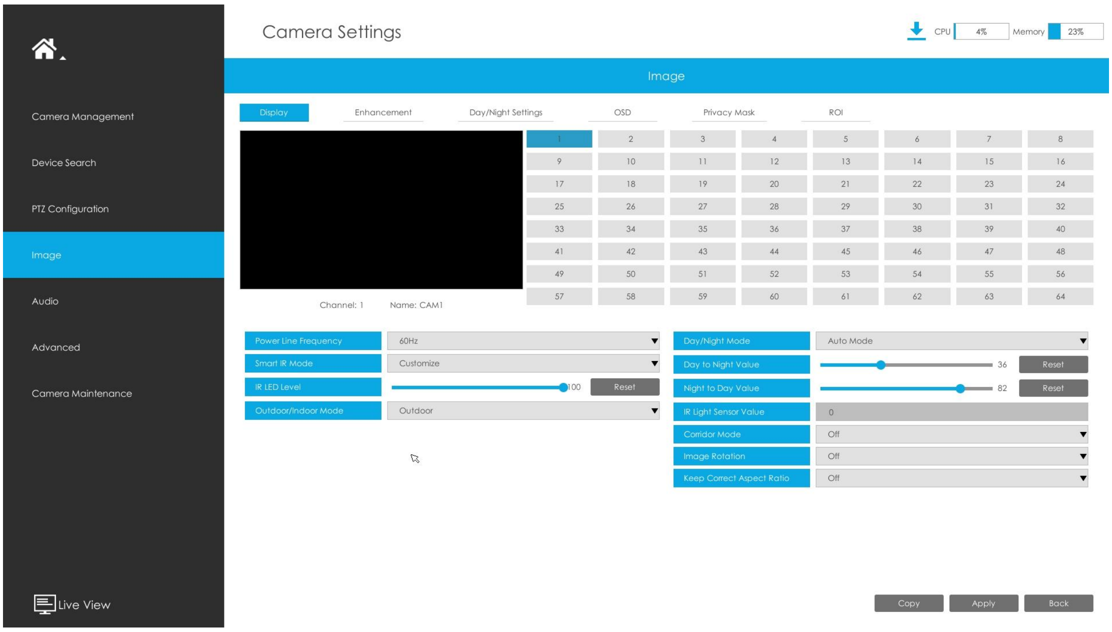
3.6.4 Image



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

3.6.4.1 Display



CPU 4% Memory 23%

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

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:

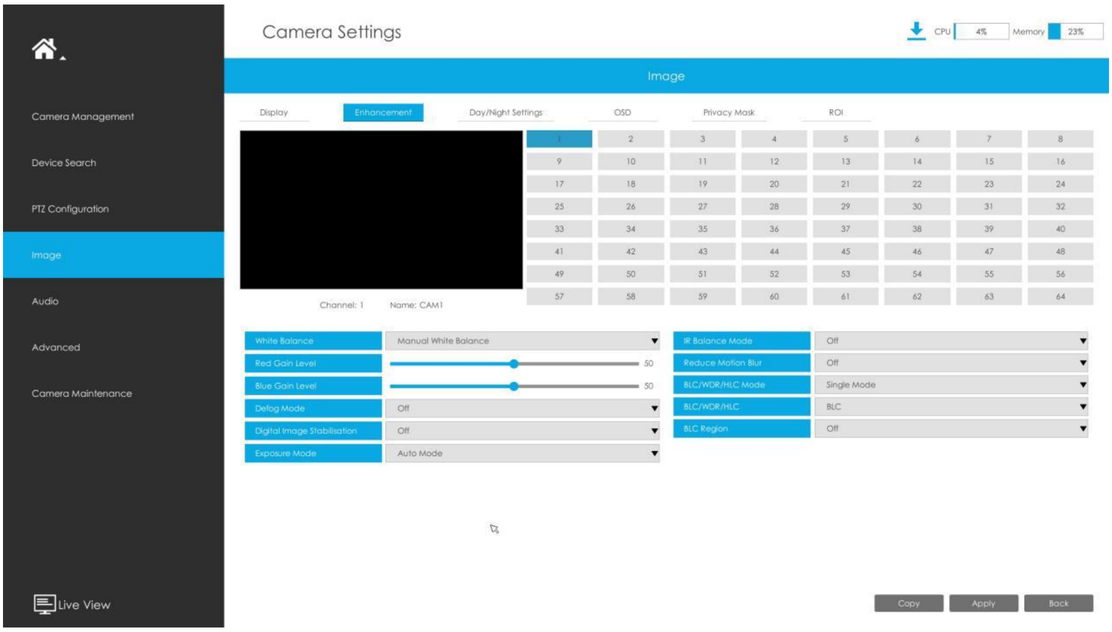
1. Smoked Dome Cover is only supported for Pro Dome and PTZ Dome cameras.
2. Smart IR Mode and IR LED Level are supported for cameras with IR LEDs.
3. White LED Level is only supported for PTZ Bullet cameras.
4. Day to Night Sensitivity and Night to Day Sensitivity under Auto Mode are only available 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 Copy on the bottom of the windows.

Step 4. Select Apply to save the settings.

3.6.4.2 Enhancement

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



Channel: 1 Name: CAM1

White Balance: Manual White Balance
Red Gain Level: 50
Blue Gain Level: 50
Defog Mode: Off
Digital Image Stabilisation: 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

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).

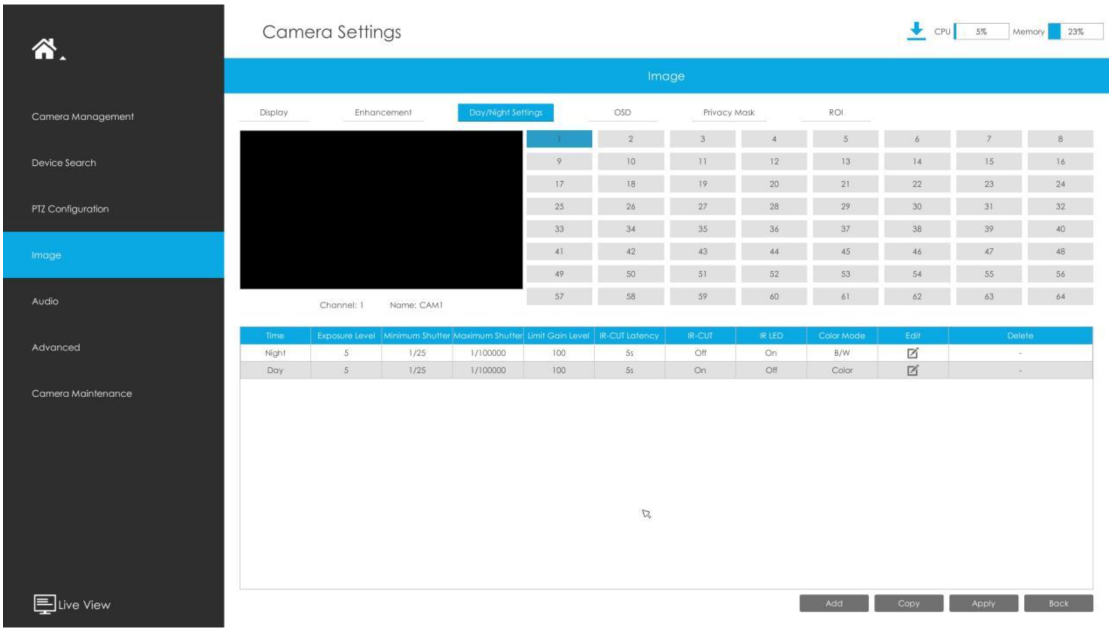
HLC Level: Select level for HLC.

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 Copy **on the bottom of the windows.**

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

3.6.4.3 Day/Night Settings



Channel: 1 Name: CAM1

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	✎	-
Day	5	1/25	1/100000	100	5s	On	Off	Color	✎	-

Step 1. Select channel.

Step 2. Set the configuration.

Exposure Level: Level 0~10 are available to meet your need.

Minimum Shutter: Set the Minimum Shutter to 1~1/100000s.

Maximum Shutter: Set the Maximum Shutter to 1~1/100000s.

Limit Gain Level: Set the Limit Gain Level to 1~100.

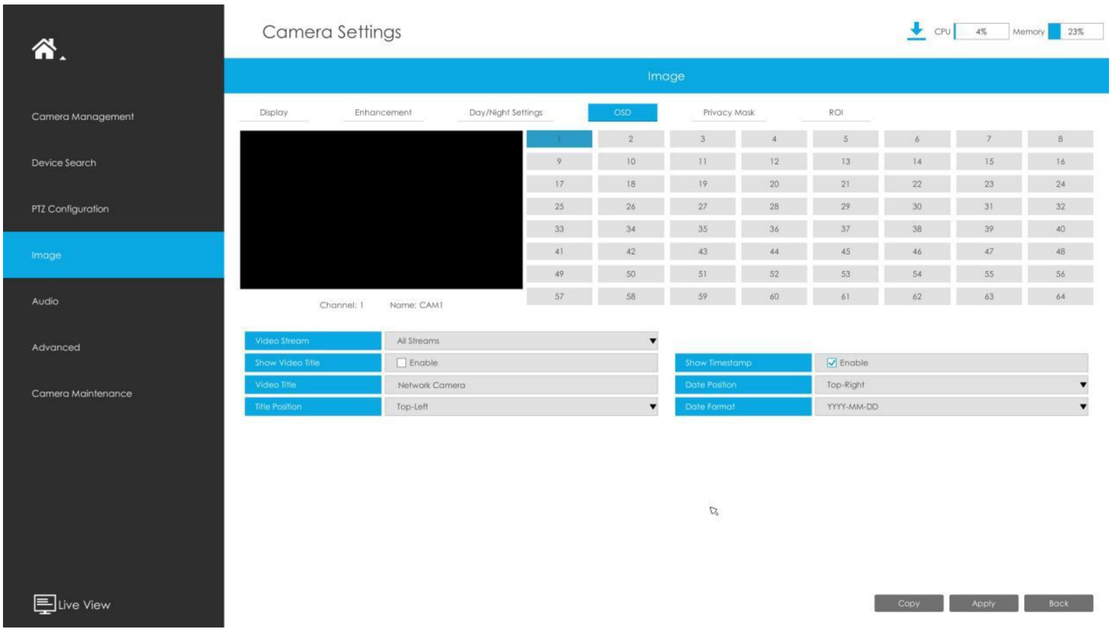
IR-CUT Latency: The interval time of switching one mode to another.
IR-CUT: Turn on or turn off IR-CUT.
IR LED: Turn on or turn off IR-LED.
Color Mode: Select B/W or Color mode under Day/Night mode.
Edit: Edit the parameters above.

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

Step 4. Select Apply to save the settings.

3.6.4.4 OSD

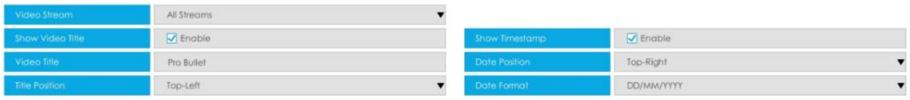
You can set OSD (On Screen Display) on NVR, and the OSD will be synchronized to Camera.



Channel: 1 Name: CAM1

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

Step 1. Select channel.
Step 2. Select Video Stream, including All Streams, Primary Stream and Secondary Stream.
Step 3. Enable video title and timestamp.



Video Stream: All Streams
Show Video Title: ☑ Enable
Video Title: Pro Bullet
Title Position: Top-Left
Show Timestamp: ☑ Enable
Date Position: Top-Right
Date Format: DD/MM/YYYY

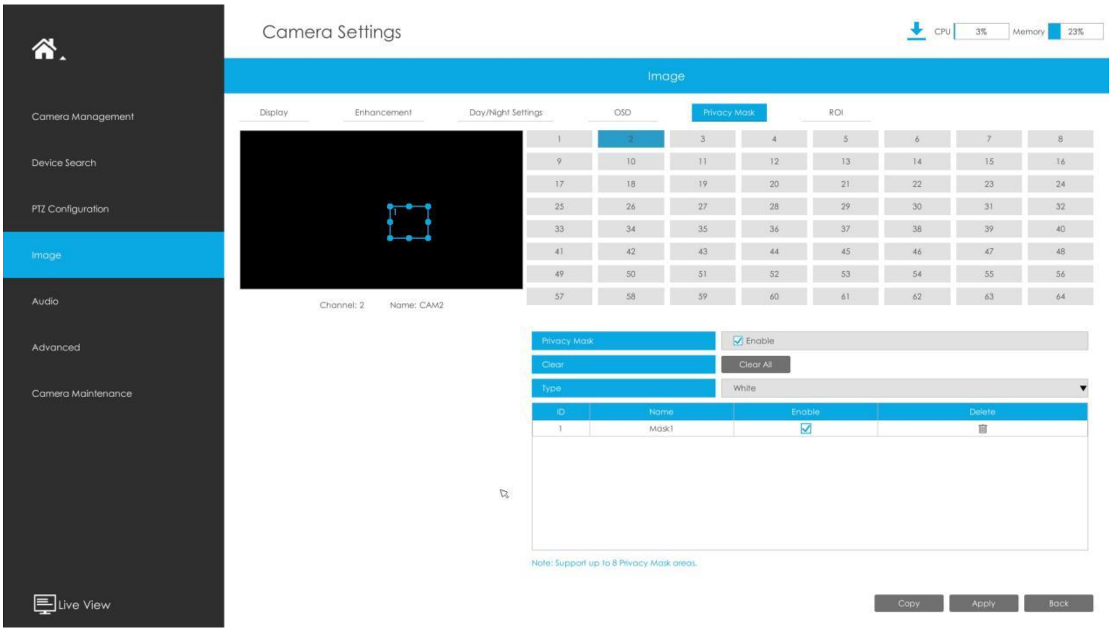
Show Video Title: Enable it and the video title will be shown on screen.
Title Position: Set the position for the video title: Top-Left or Top-Right.
Date Position: Set the position for the date: Top-Left, Top-Right, Bottom-Left or Bottom-Right.
Date Format: Set format for date: YYYY-MM-DD, MM/DD/YY or DD/MM/YYYY.

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

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

3.6.4.5 Privacy Mask

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



Channel: 2 Name: CAM2

Privacy Mask: ☑ Enable

Clear: Clear All

Type: White

ID	Name	Enable	Delete
1	Mask1	☑	🗑

Note: Support up to 8 Privacy Mask areas.

You can add a privacy mask by following steps:

Step 1. Select channel and enable privacy mask.

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

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

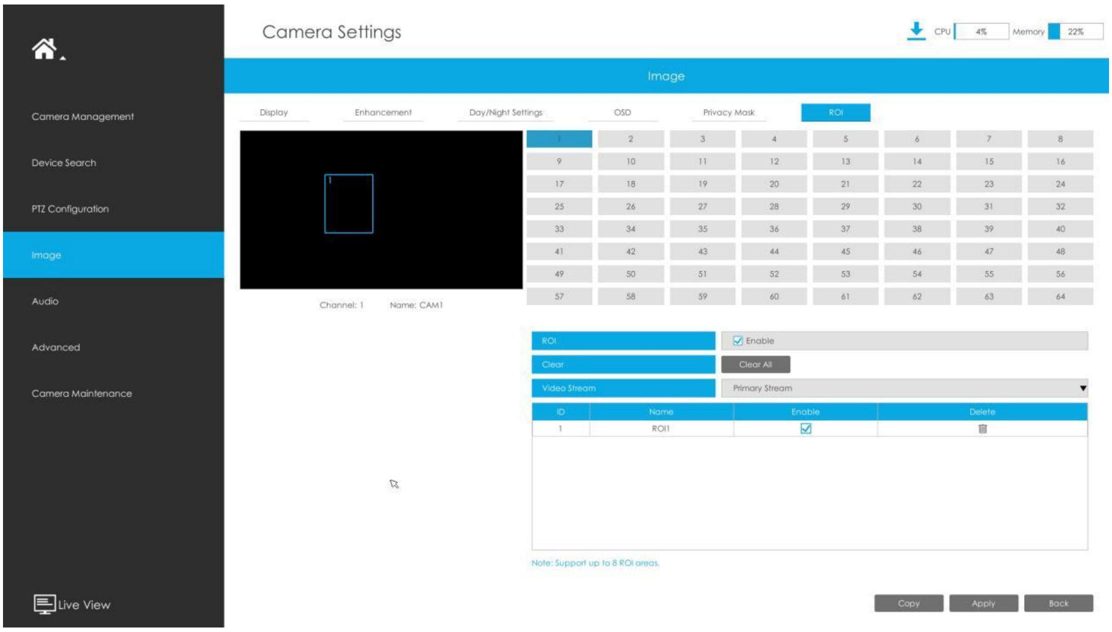
Step4. Select "Apply" to save the settings.

Note:

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

3.6.4.6 ROI

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



Channel: 1 Name: CAM1

ROI: ☑ Enable

Video Stream: Primary Stream

ID	Name	Enable	Delete
1	ROI1	☑	🗑

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 and drag the mouse to select the area in the preview window. You can add 8 areas at most and each zone can be enabled and disabled.

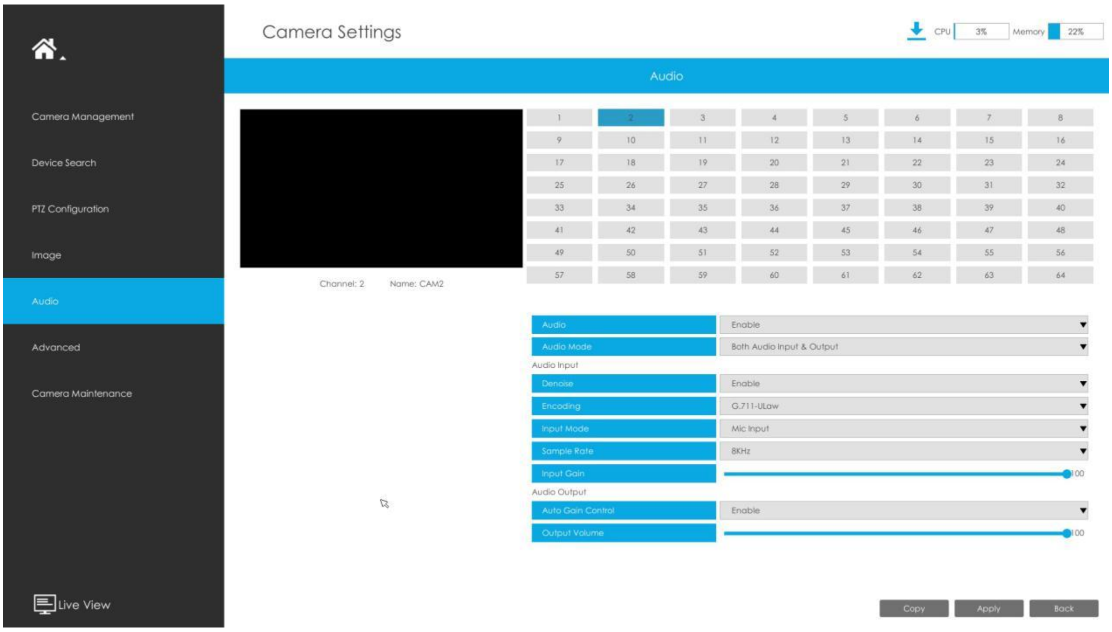
Step 3. Copy the ROI area to the other channels by clicking the "Copy" button on the bottom of the windows.

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

Note:

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

3.6.5 Audio



Channel: 2 Name: CAM2

Audio: Enable

Audio Mode: Both Audio Input & Output

Audio Input

Denoise: Enable

Encoding: G.711-ULaw

Input Mode: Mic Input

Sample Rate: 8KHz

Input Gain: 100

Audio Output

Auto Gain Control: Enable

Output Volume: 100

This audio function allows to configure the audio interface parameters for camera.

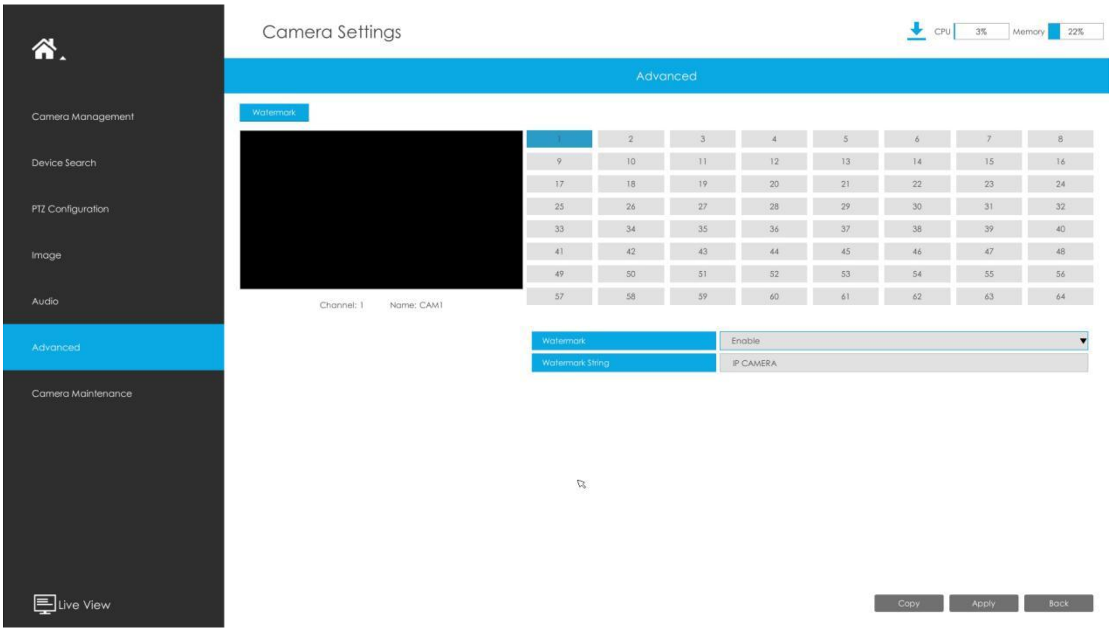
Enable Audio: Check on the check box to enable audio feature.

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



Channel: 1 Name: CAM1

Watermark: Enable

Watermark String: IP CAMERA

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.

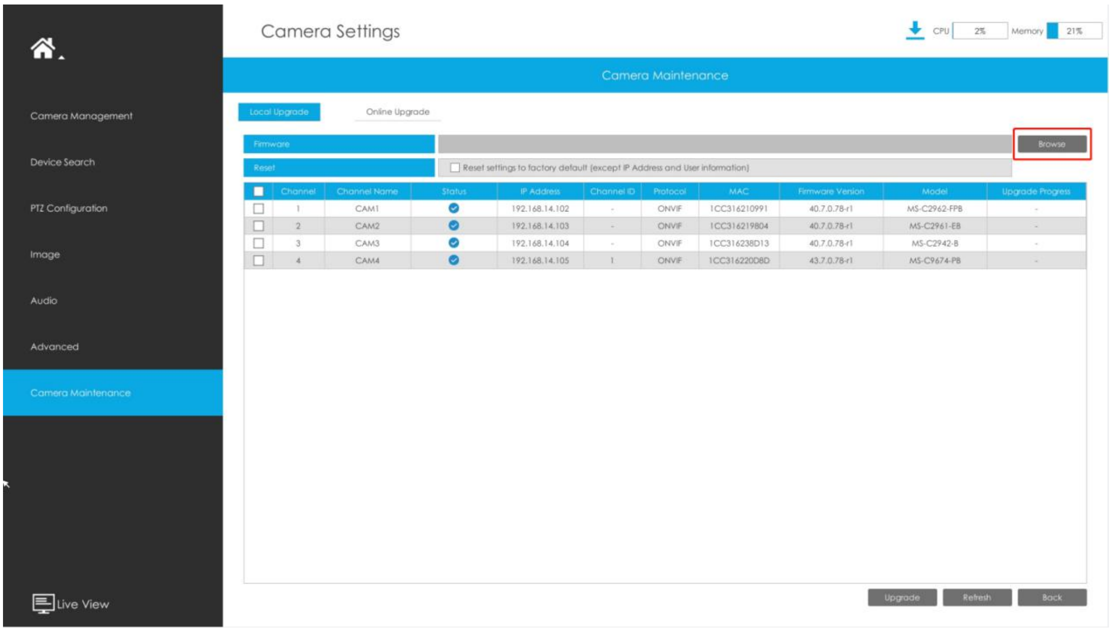
Note:
Watermark only appears when exporting by a third party.

3.6.7 Camera Maintenance

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

Local Upgrade

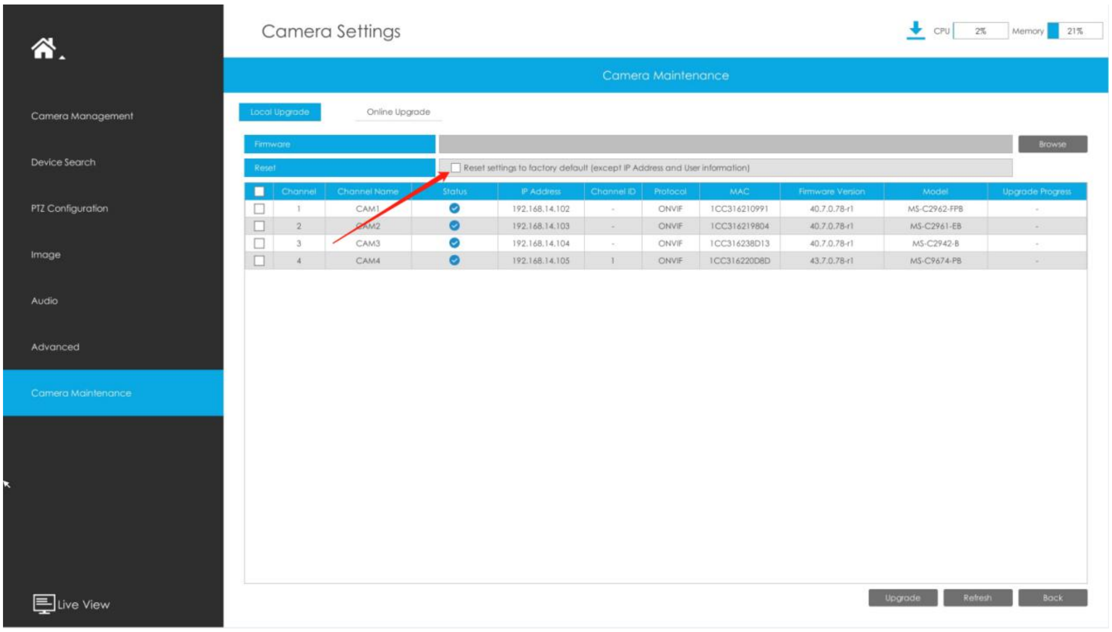
Step 1. Click Browse and select the corresponding firmware you downloaded in your USB;



☐ 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	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-

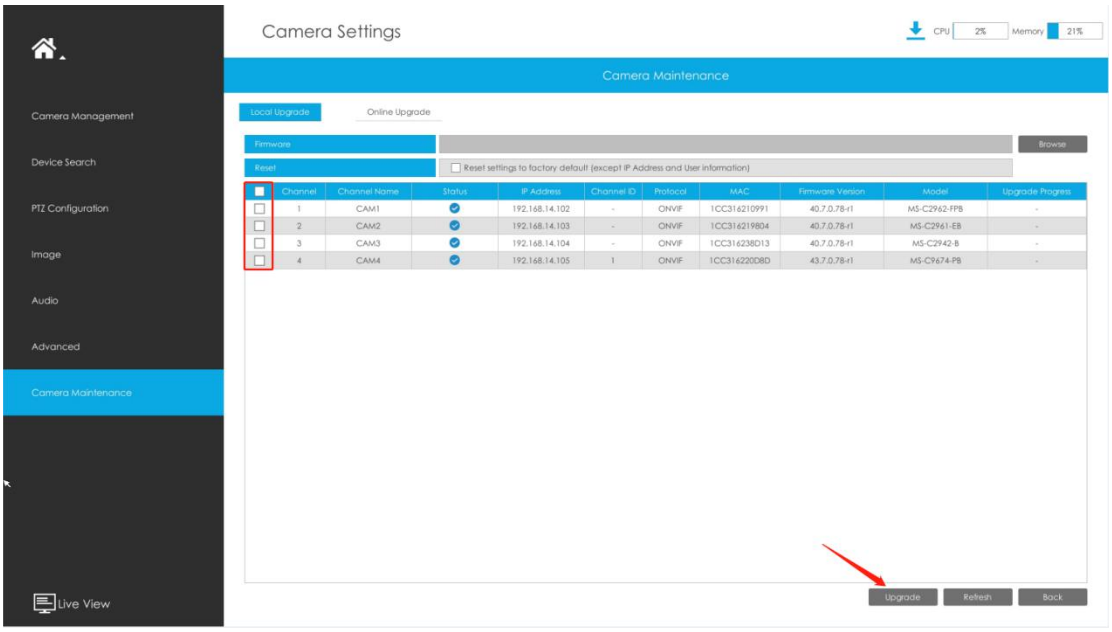
Step2. Check if you need to reset settings to factory default (except IP Address and User Information) after upgrade;



☐ 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	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-

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



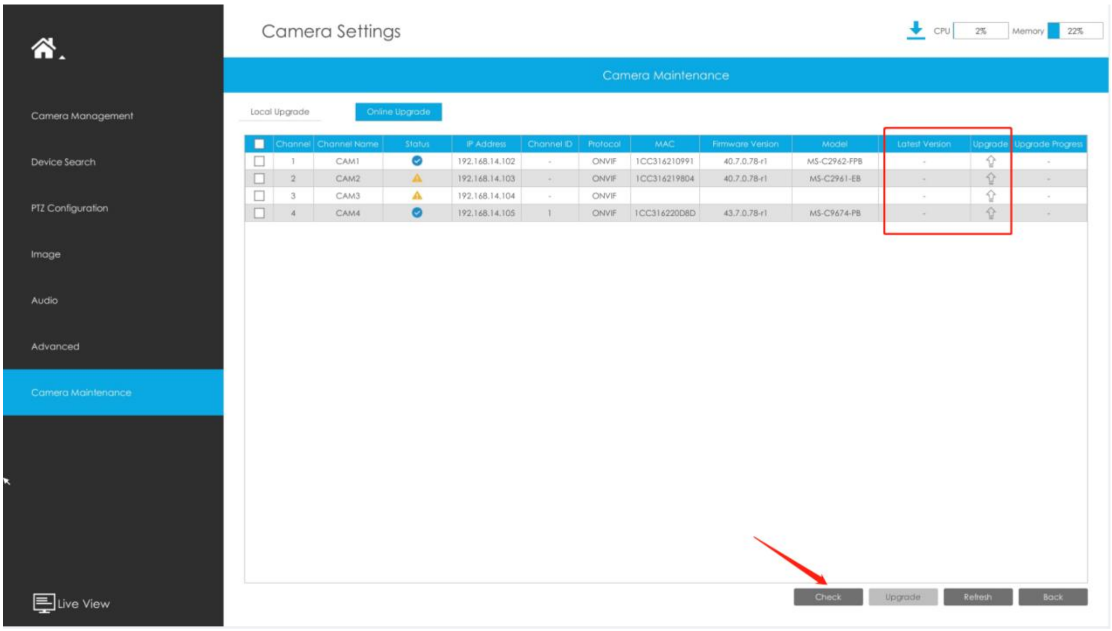
☐ Reset settings to factory default (except IP Address and User information)

☐	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	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-

Online Upgrade

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

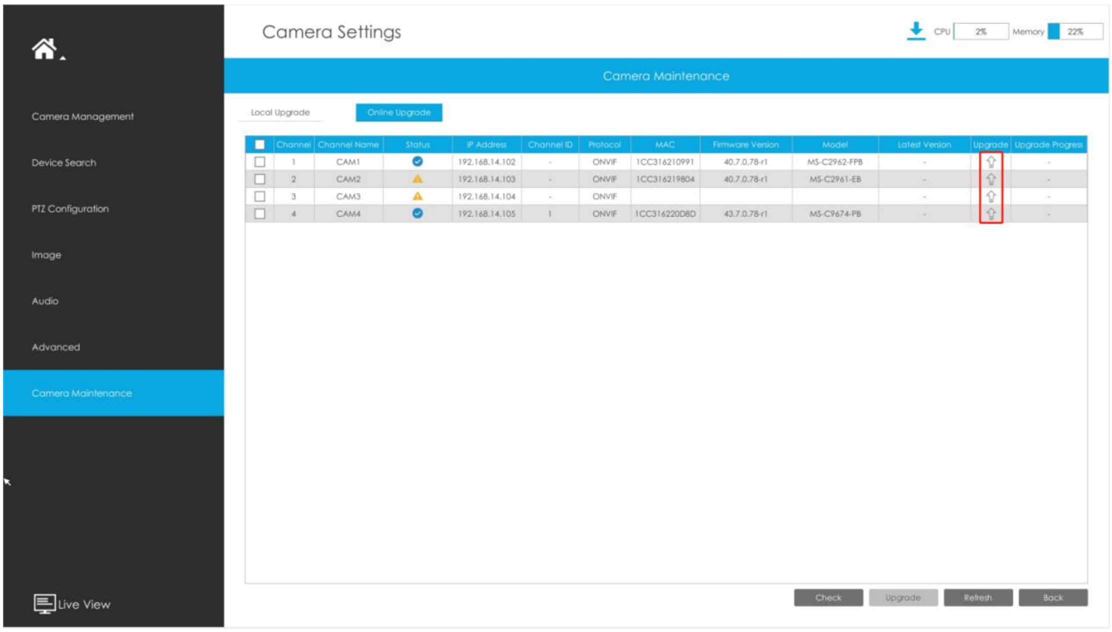
If there is a new version for camera, the icon in corresponding Upgrade column will turn blue and the latest version will be displayed in Latest Version column.



☐	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				-	⇧	-
☐	4	CAM4	✓	192.168.14.105	1	ONVIF	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-	⇧	-

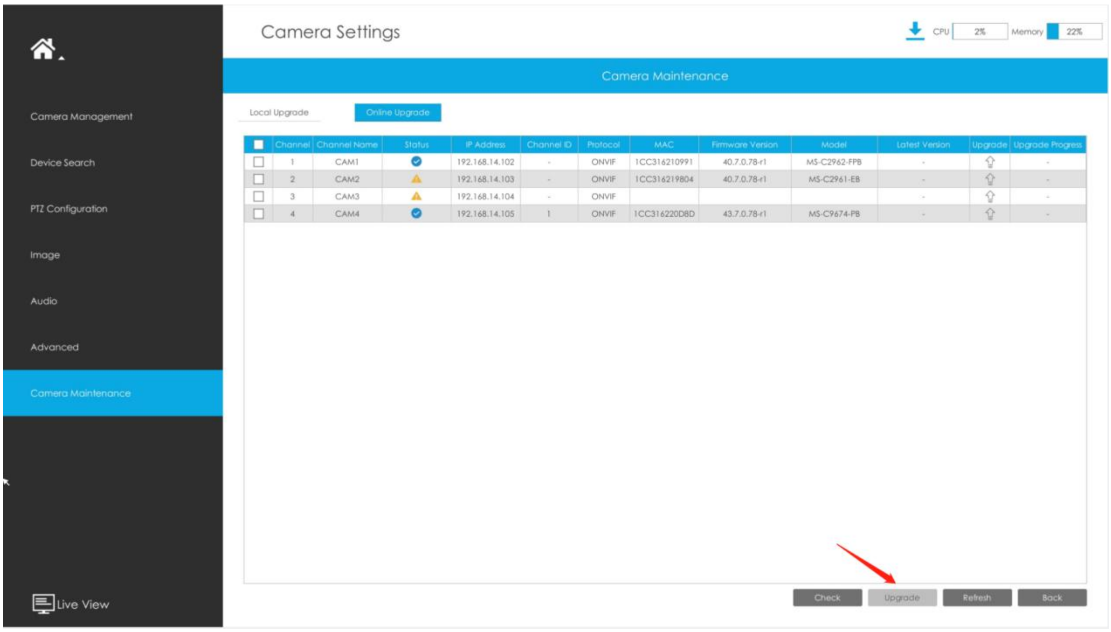
Step 2. There are two ways to confirm the upgrade.

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



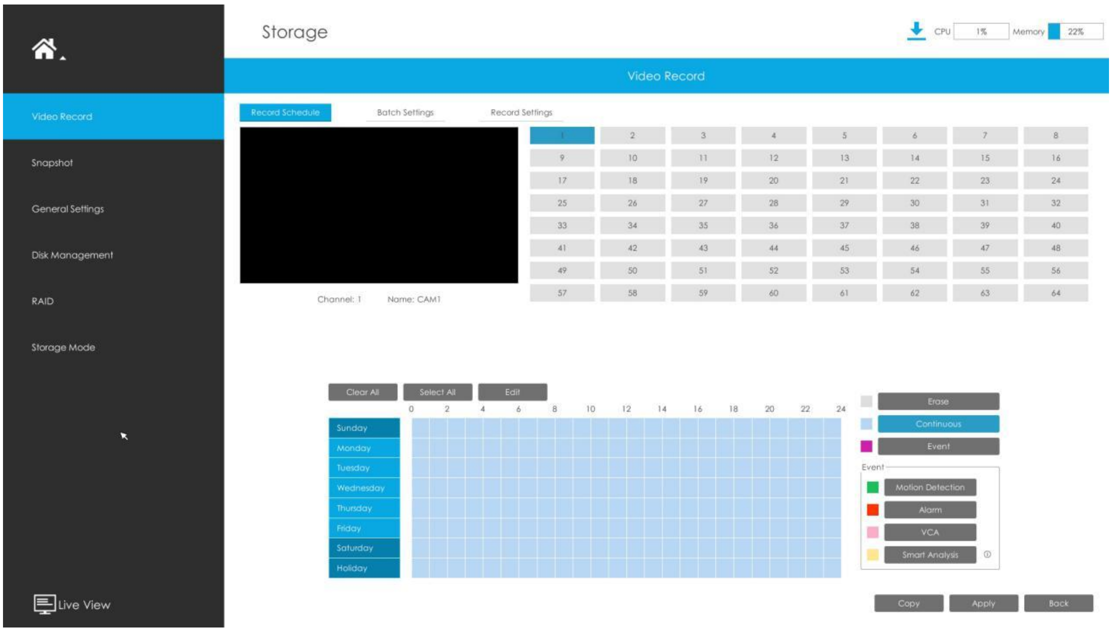
☐	Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrade Progress
☐	1	CAM1	✓	192.168.14.102	-	ONVIF	1CC316210991	40.7.0.78-r1	MS-C2962-FPB	-	⇧	-
☐	2	CAM2	⚠	192.168.14.103	-	ONVIF	1CC316219804	40.7.0.78-r1	MS-C2961-EB	-	⇧	-
☐	3	CAM3	⚠	192.168.14.104	-	ONVIF				-	⇧	-
☐	4	CAM4	✓	192.168.14.105	1	ONVIF	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-	⇧	-

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



☐	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				-	⇧	-
☐	4	CAM4	✓	192.168.14.105	1	ONVIF	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-	⇧	-

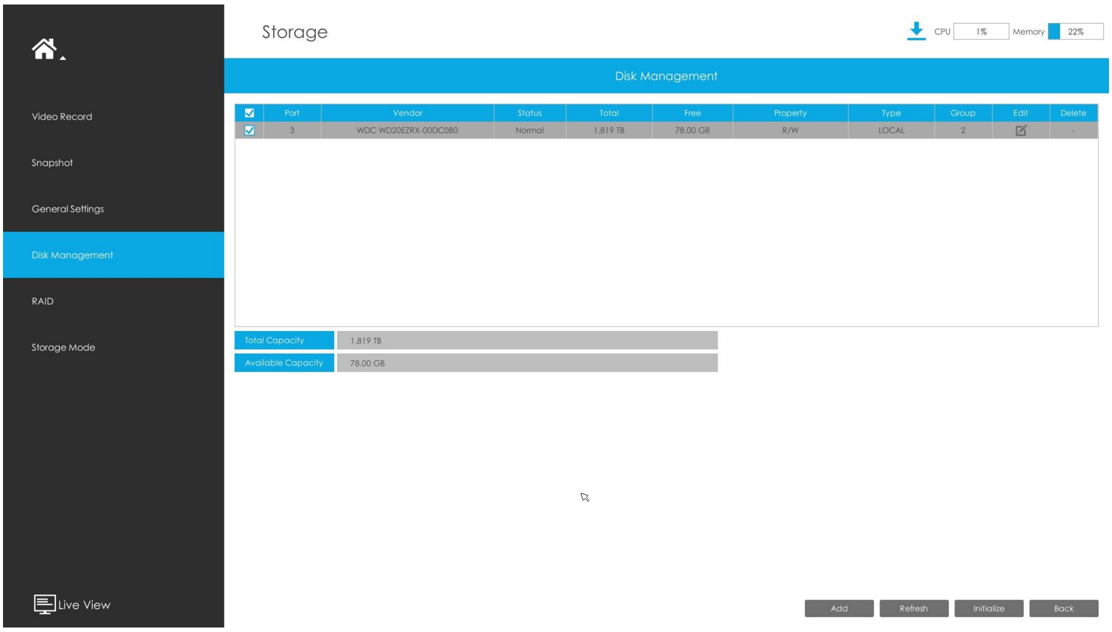
3.7 Storage



Channel: 1 Name: CAM1

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.

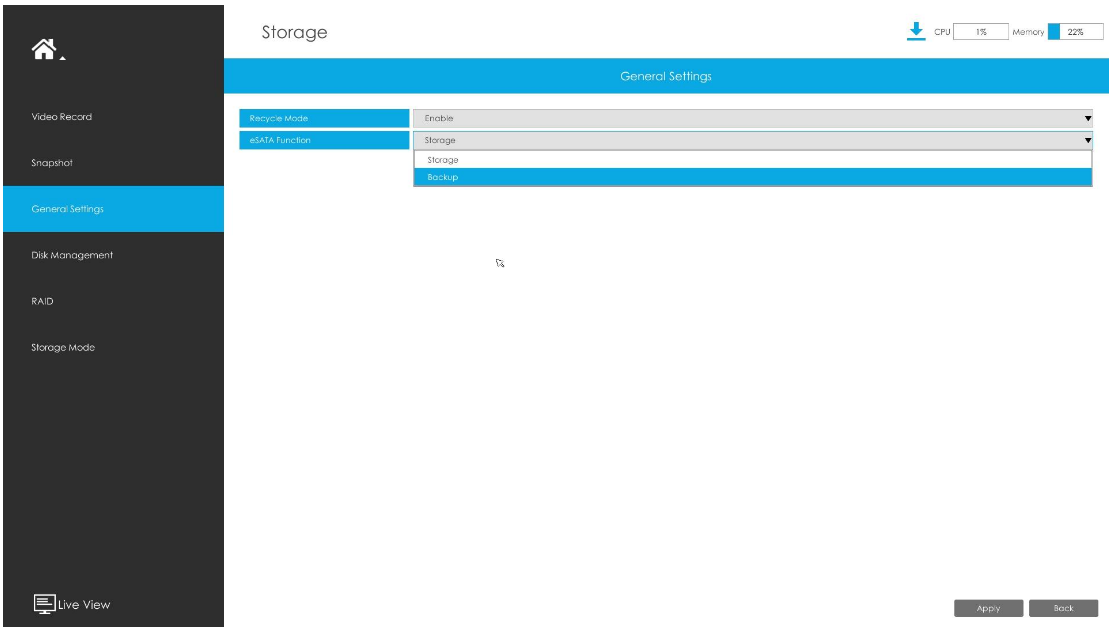


☑	Port	Vendor	Status	Total	Free	Property	Type	Group	Edit	Delete
☑	3	WDC WD20EZRX-00DC0B0	Normal	1.819 TB	78.00 GB	R/W	LOCAL	2	✎	-

Total Capacity 1.819 TB
Available Capacity 78.00 GB

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: Enable

eSATA Function: Storage

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.

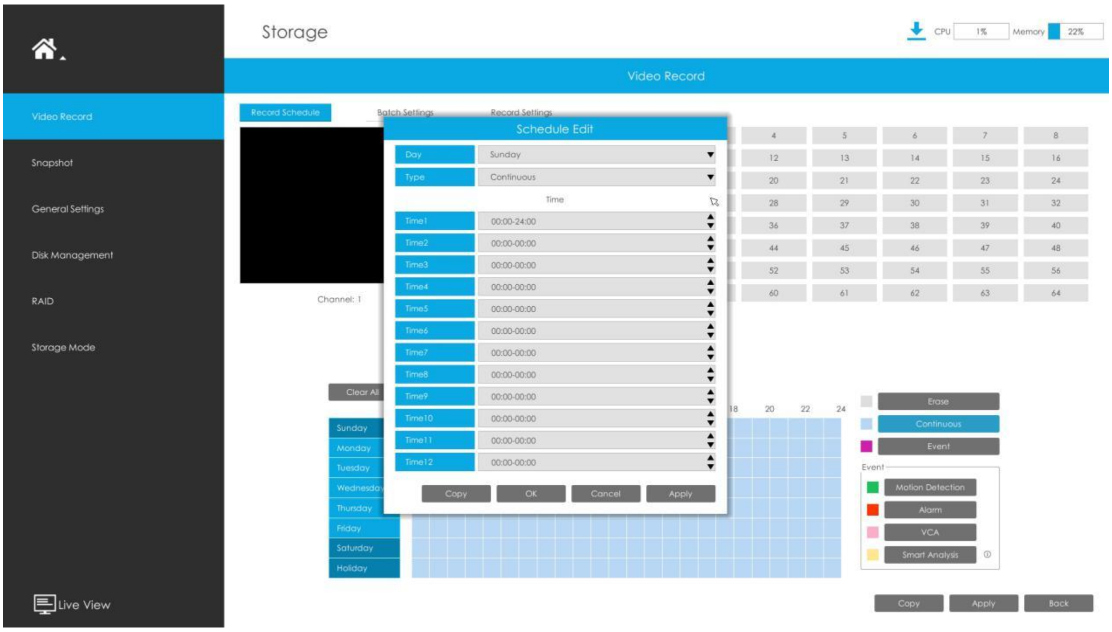
3.7.1 Video Record

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.



Day: Sunday

Type: Continuous

Time1: 00:00-24:00

Time2: 00:00-00:00

Time3: 00:00-00:00

Time4: 00:00-00:00

Time5: 00:00-00:00

Time6: 00:00-00:00

Time7: 00:00-00:00

Time8: 00:00-00:00

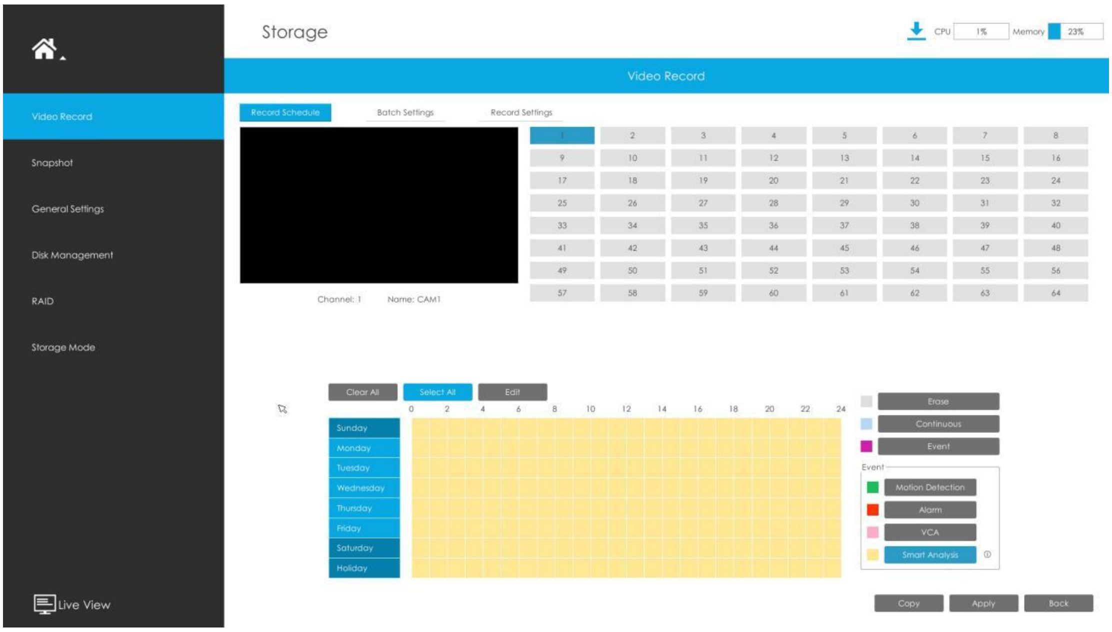
Time9: 00:00-00:00

Time10: 00:00-00:00

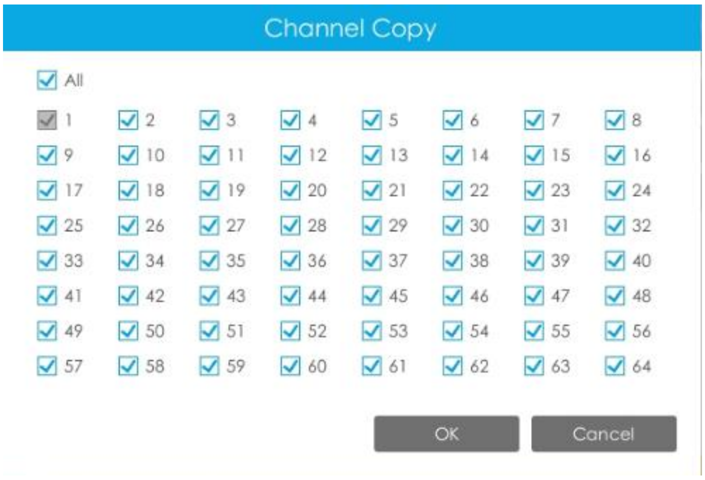
Time11: 00:00-00:00

Time12: 00:00-00:00

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 Clear All.



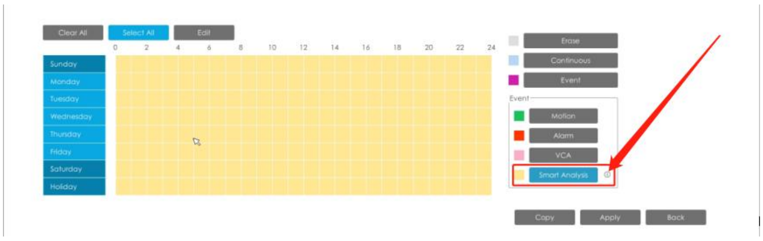
Step 3. Click Copy **to copy the same record configuration to other channels.**



Note:

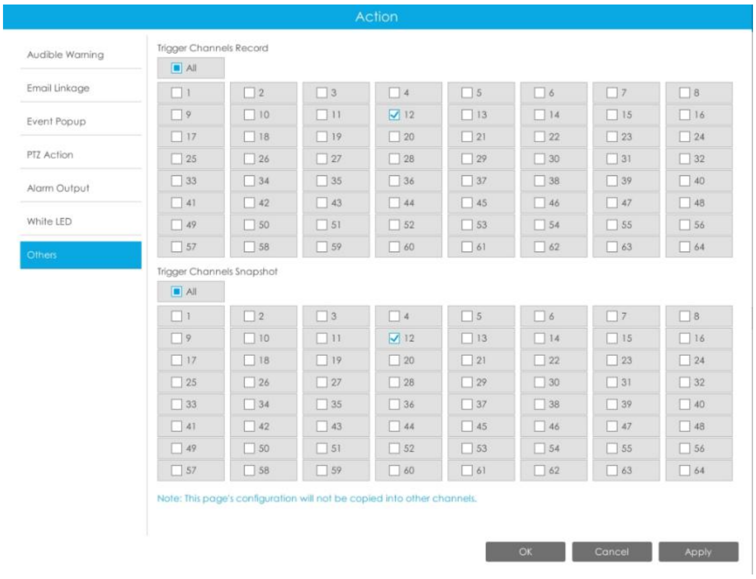
Here are steps for setting ANPR record correctly so that NVR will record when license plate is detected.

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).



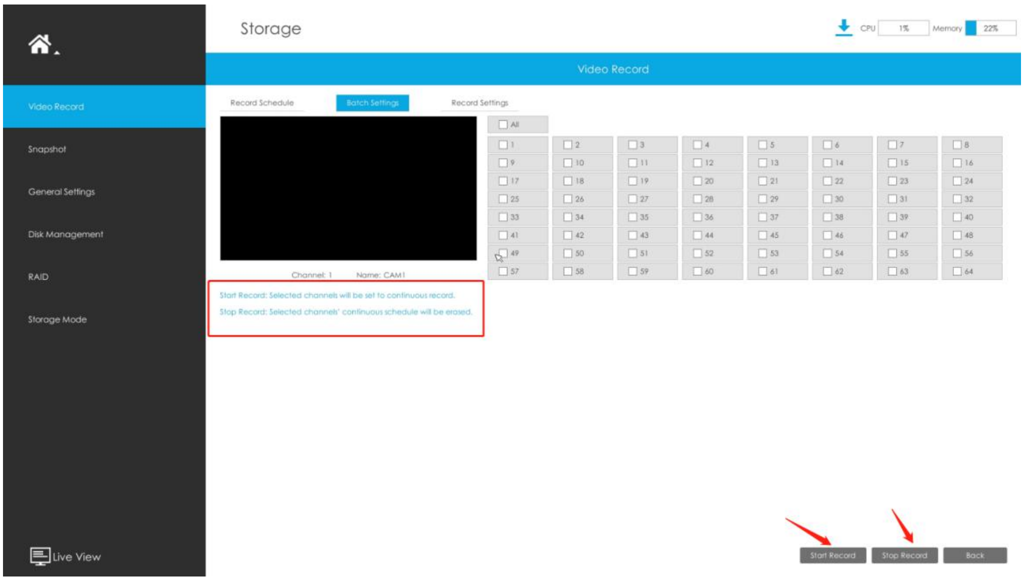
Note: This page's configuration will not be copied into other channels.

Batch Settings

Step 1. Click Batch Settings **to enter Batch Settings interface.**

Step 2. Select channels and click Start Record **to start always record.**

Step 3. Select channels and click Stop Record **to stop record.**



Start Record: Selected channels will be set to continuous record.

Stop Record: Selected channels' continuous schedule will be erased.

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. Note that only NVR model ends with letter H support pre record.

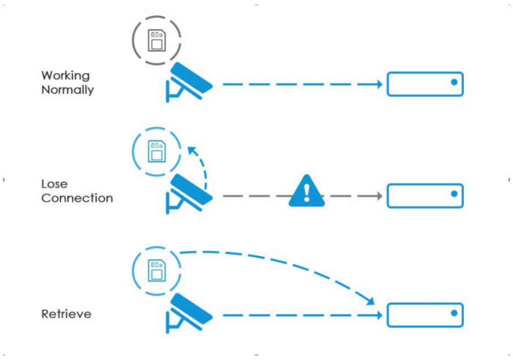
Post Record: Event post-record duration time. It will keep recording after the event is over.

Audio Record: Select to record audio or not.

Record Stream Type: Select Main stream or sub stream for record. Primary+Secondary Stream is available for NVR model ends with T only. If secondary stream is selected for recording while it is disabled, a prompt indicating that the secondary stream is unavailable will pop up.

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

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



Here are some notes for using ANR below:

Note：

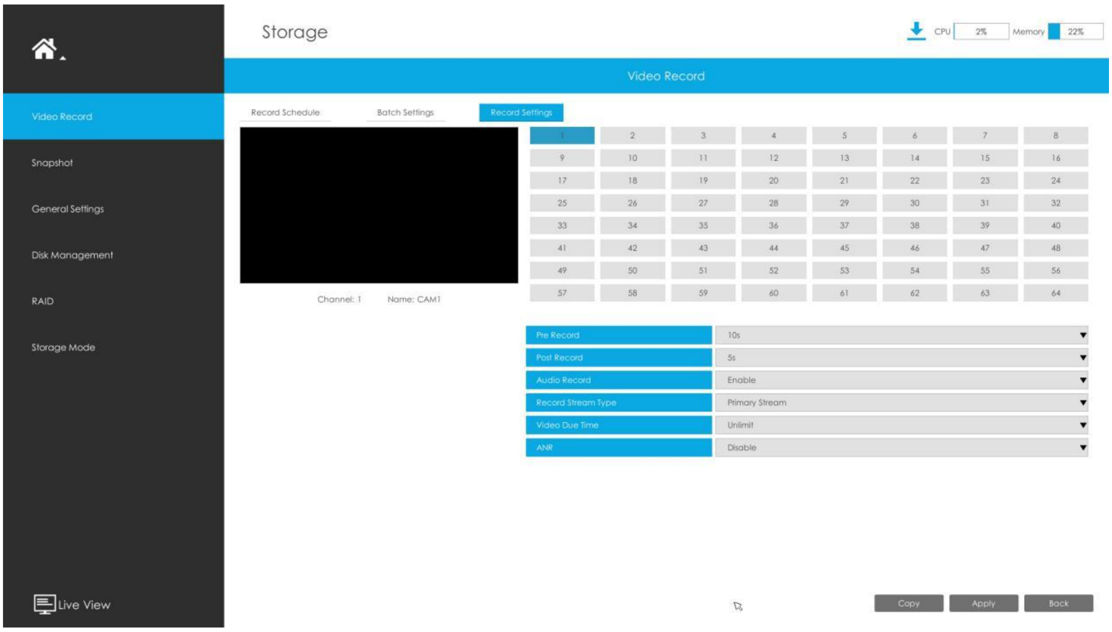
1. Ensure that your devices are with the correct firmware versions.

Camera: V4X.7.0.72 or above

NVR: V7X.9.0.6 or above

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

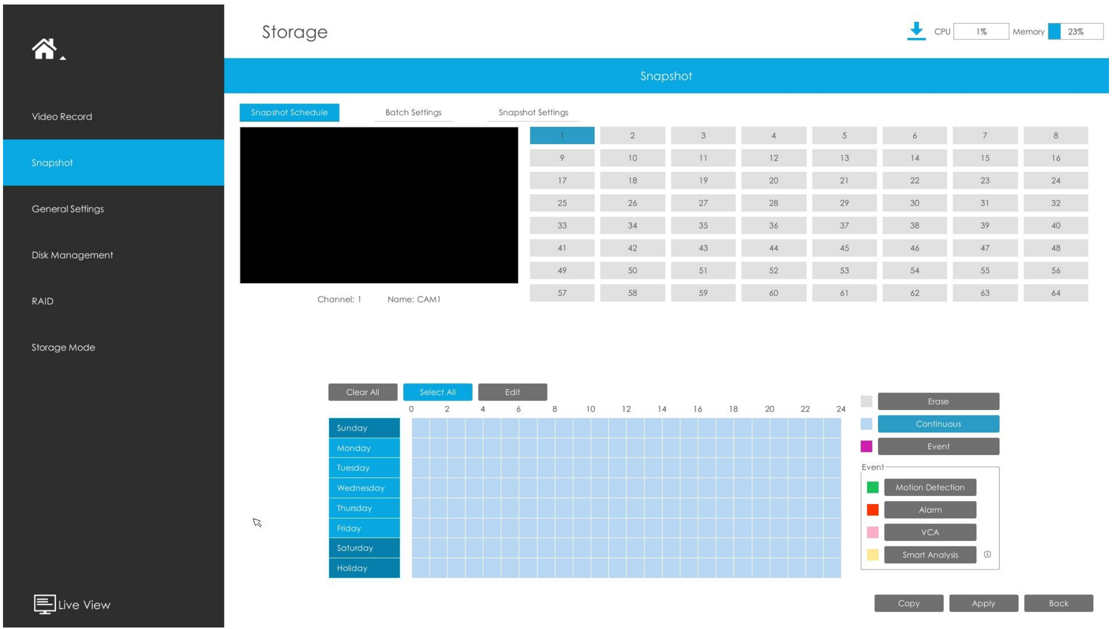
2. Camera should equipped with on-board SD card.
3. Camera should be added to NVR by MSSP protocol.
4. No matter whether NVR has recording schedule or not, camera will do ANR recording and then retrieve back to NVR after reconnection.



Channel: 1 Name: CAM1

Pre Record: 10s
Post Record: 5s
Audio Record: Enable
Record Stream Type: Primary Stream
Video Due Time: Unlimit
ANR: Disable

3.7.2 Snapshot



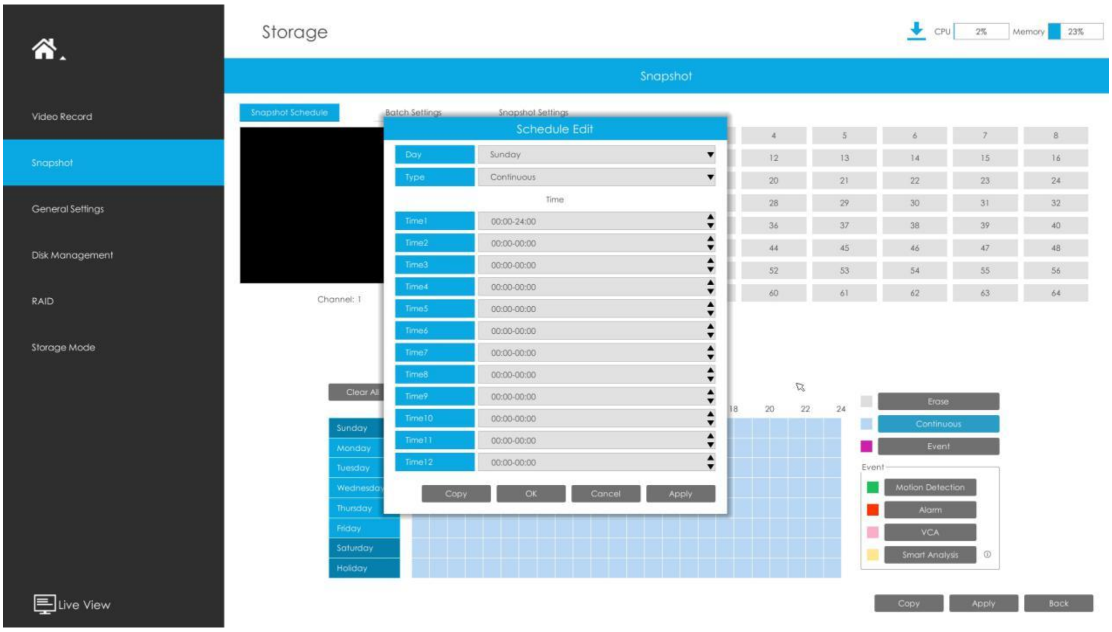
Channel: 1 Name: CAM1

Snapshot Schedule

Step 1. Select channel.

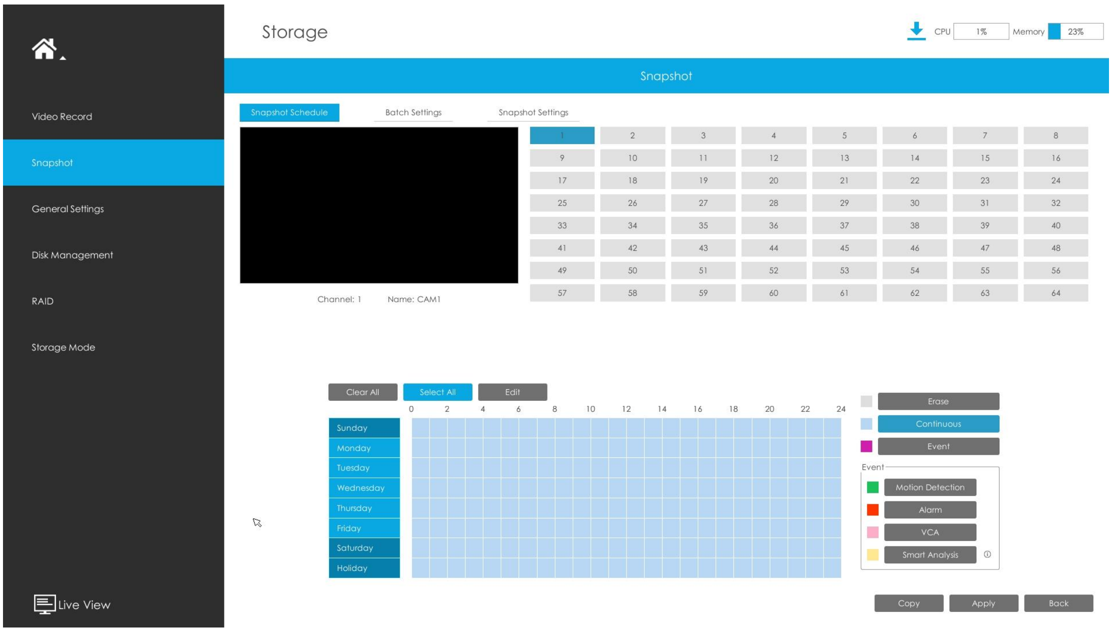
Step 2. Set snapshot schedule.

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

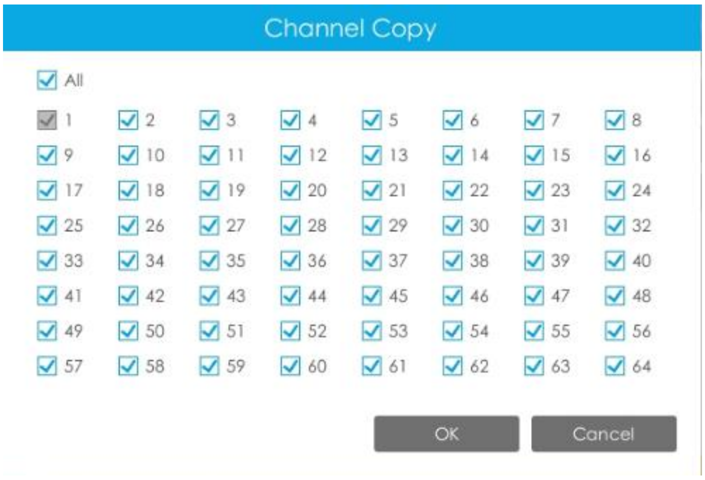


Day: Sunday
Type: Continuous
Time
Time1: 00:00-24:00
Time2: 00:00-00:00
Time3: 00:00-00:00
Time4: 00:00-00:00
Time5: 00:00-00:00
Time6: 00:00-00:00
Time7: 00:00-00:00
Time8: 00:00-00:00
Time9: 00:00-00:00
Time10: 00:00-00:00
Time11: 00:00-00:00
Time12: 00:00-00:00

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.



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

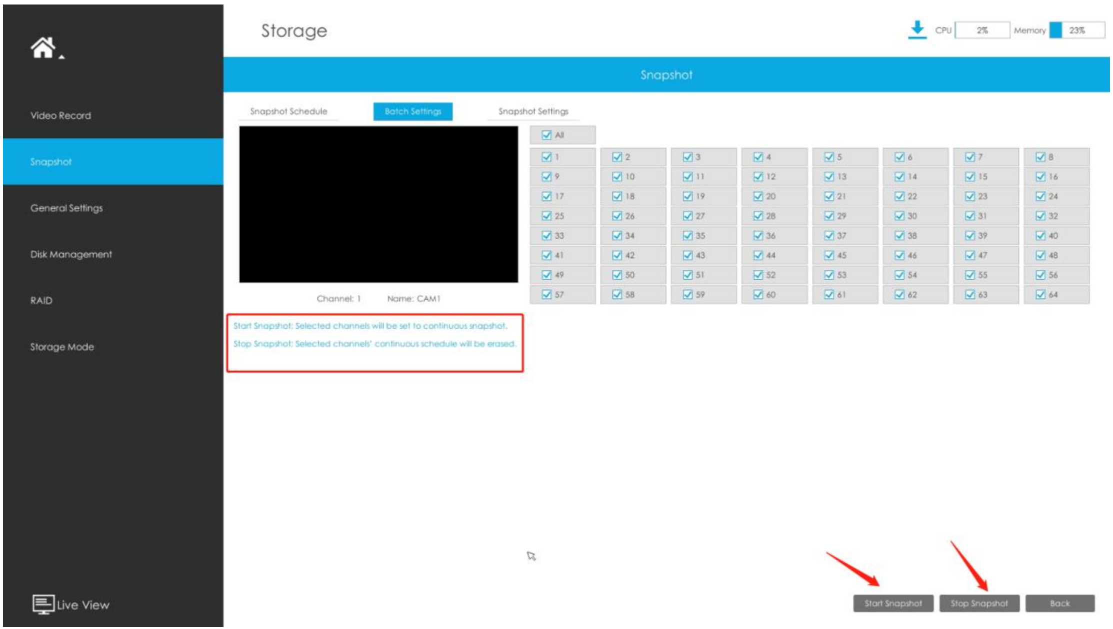


Batch Settings

Step 1. Click Batch Settings to enter Batch Settings interface.

Step 2. Select channels and click Start Snapshot to start always record.

Step3. Select channels and click Stop Snapshot to stop record.



Start Snapshot: Selected channels will be set to continuous snapshot.

Stop Snapshot: Selected channels' continuous schedule will be erased.

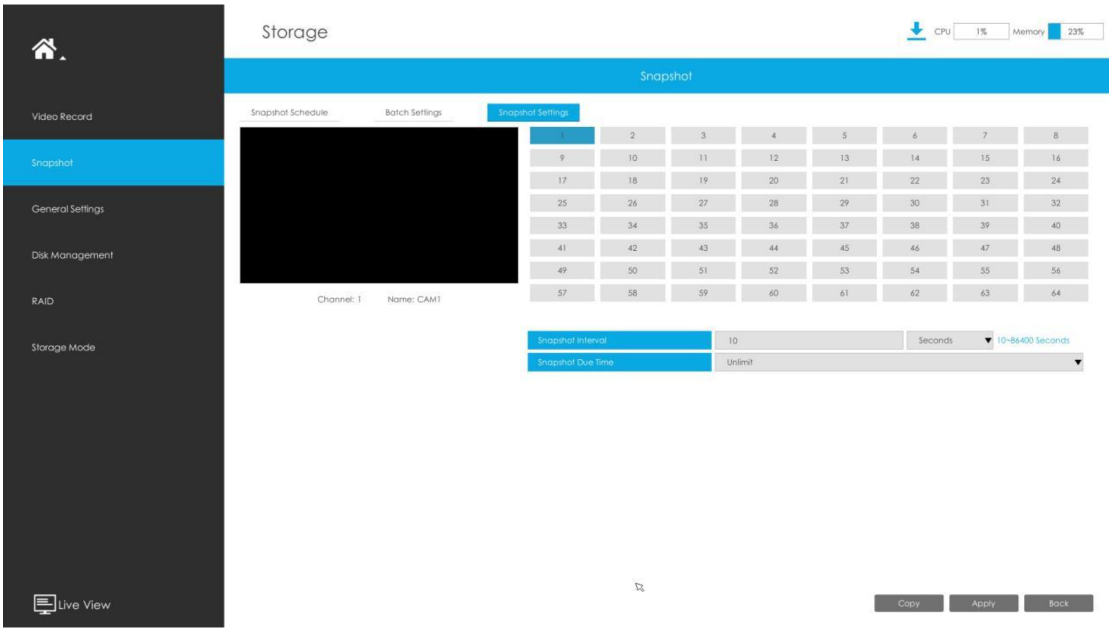
Snapshot Settings

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

Channel: Select the channel which will be set.

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.

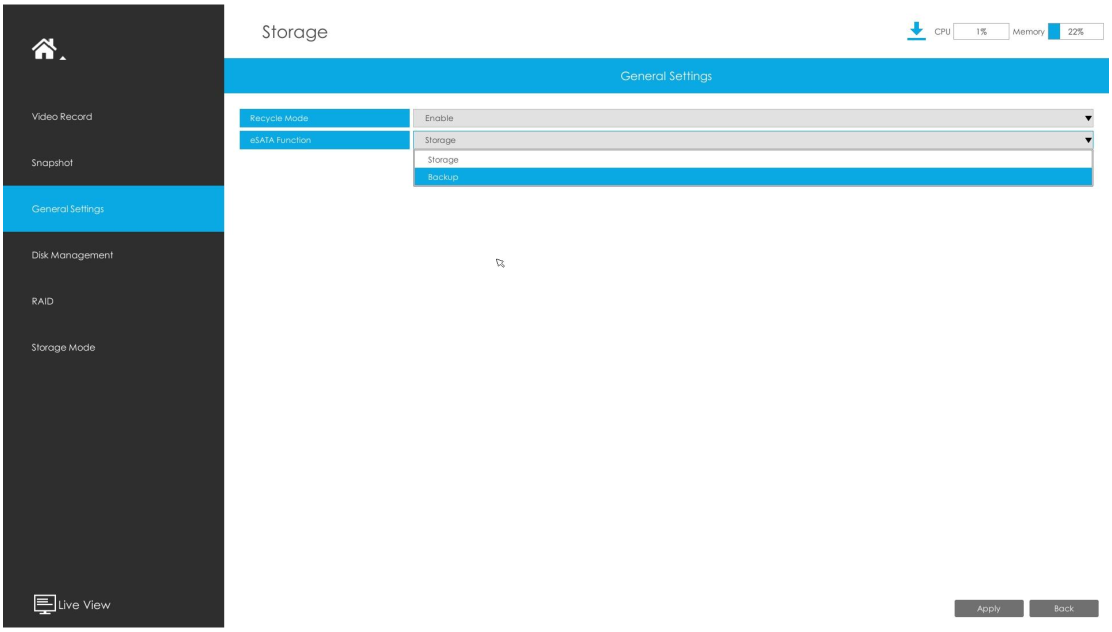


Channel: 1 Name: CAM1

Snapshot Interval: 10 Seconds 10~86400 Seconds

Snapshot Due Time: Unlimit

3.7.3 General Settings



Recycle Mode: Enable

eSATA Function: Storage

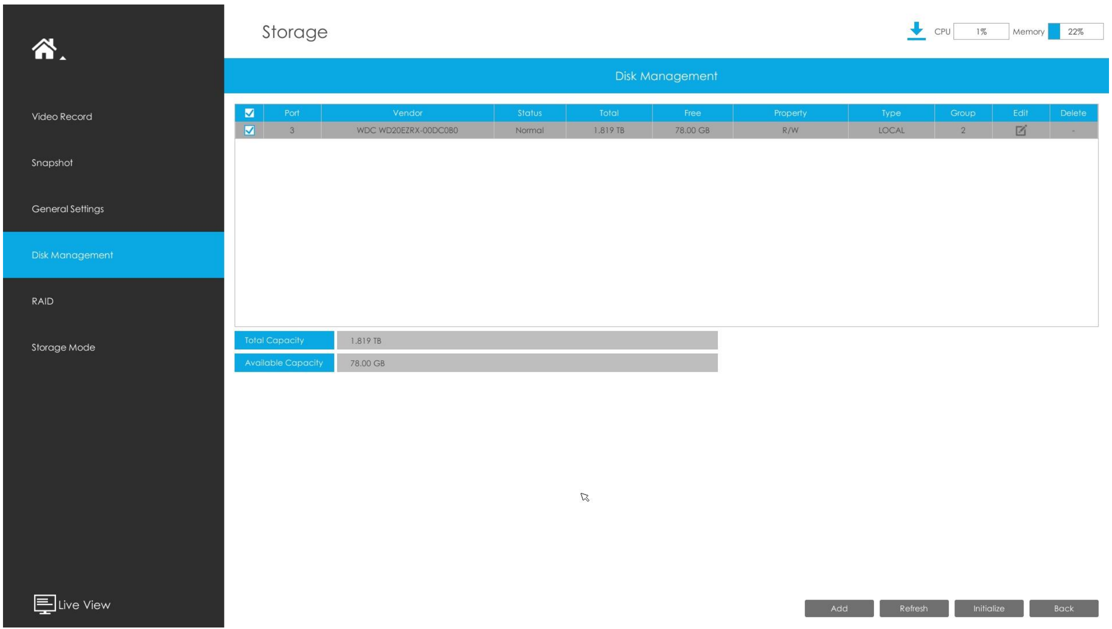
Recycle Mode: You can enable or disable Recycle Mode for all storage device.

eSATA Function: Both storage and backup are available.

Note：

eSATA Function is only available for NVR 8000 Series.

3.7.4 Disk Management



☑	Port	Vendor	Status	Total	Free	Property	Type	Group	Edit	Delete
☑	3	WDC WD20EZRX-00DC0B0	Normal	1.819 TB	78.00 GB	R/W	LOCAL	2	✎	-

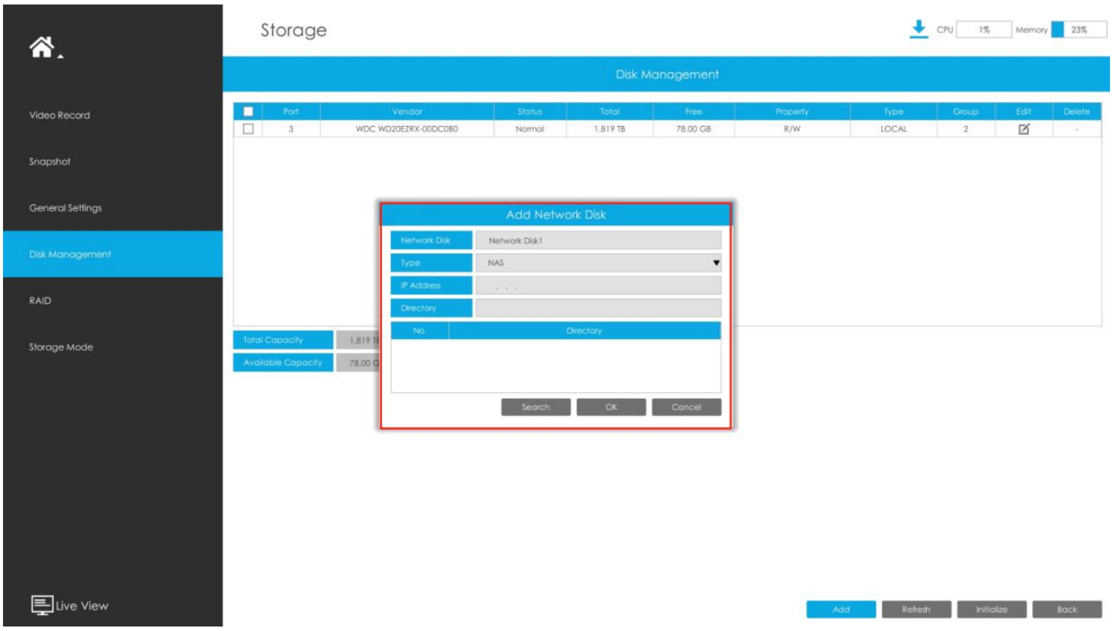
Total Capacity	1.819 TB
Available Capacity	78.00 GB

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.

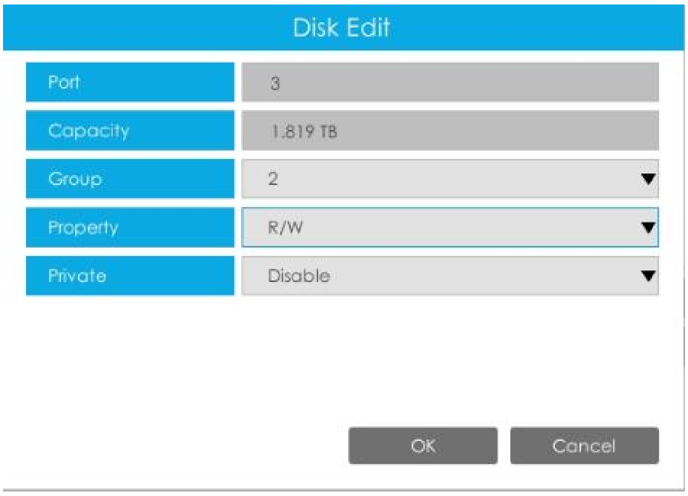


☐	Port	Vendor	Status	Total	Free	Property	Type	Group	Edit	Delete
☐	3	WDC WD20EZRX-00DC0B0	Normal	1.819 TB	78.00 GB	R/W	LOCAL	2	✎	-

Network Disk: Network Disk1
Type: NAS
IP Address: . . .
Directory:

Select a storage device and click Initialize to initialize it, edit the Property by clicking ✎.

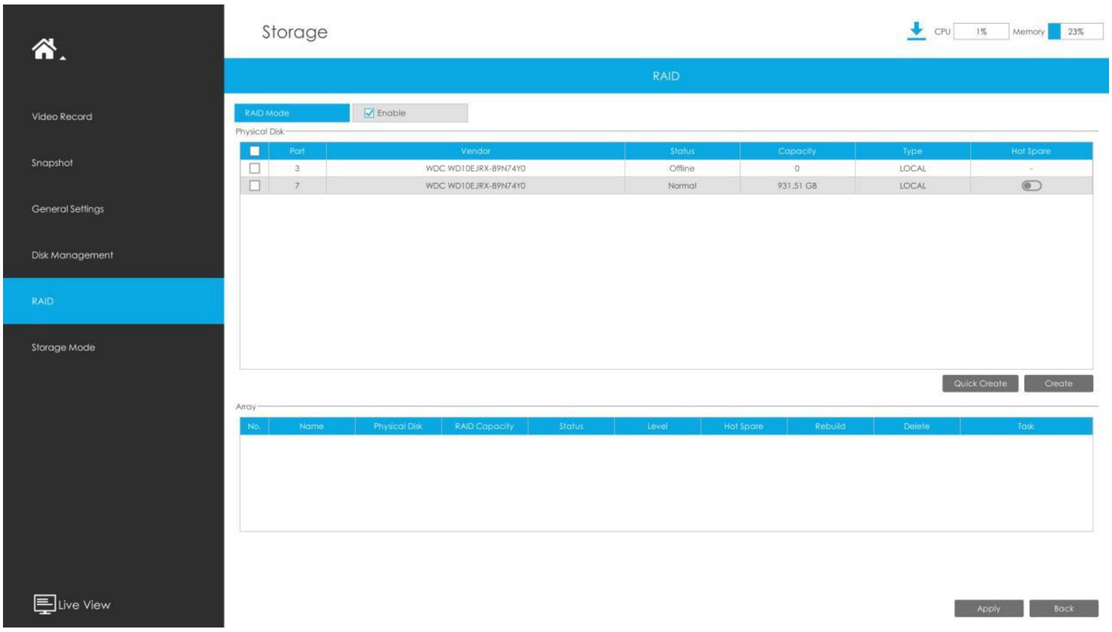
After that the storage device will be ready.



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

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

3.7.5 RAID



CPU 1% Memory 23%

RAID Mode ☑ Enable

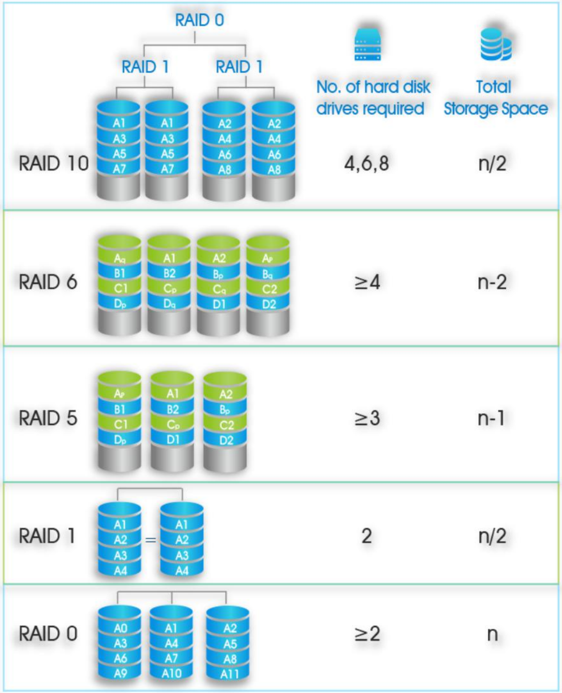
Physical Disk

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

Array

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

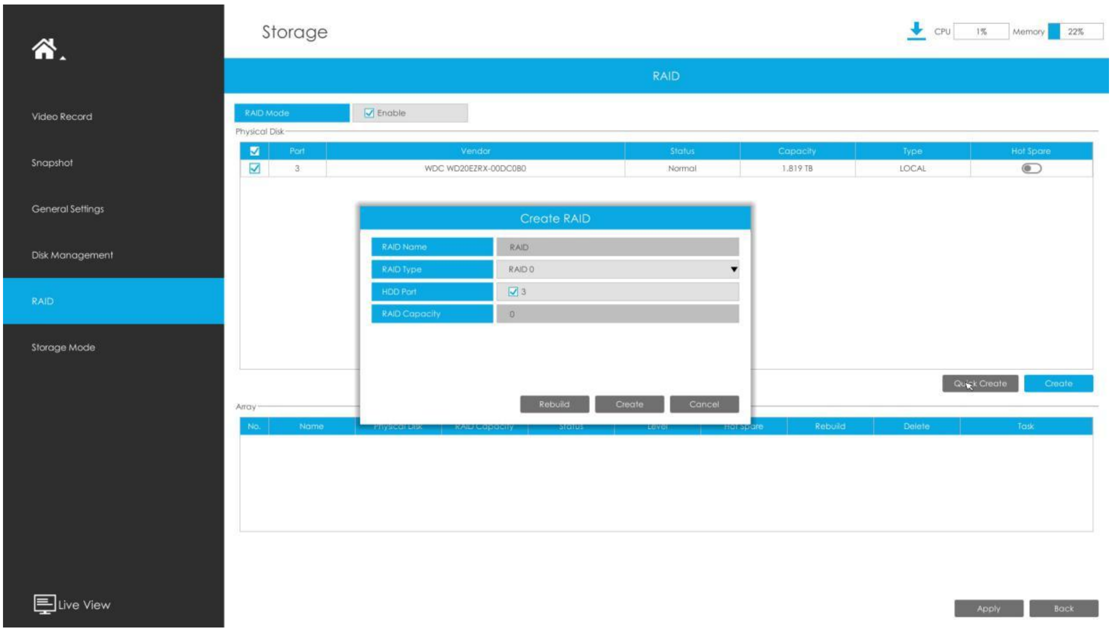
RAID (Redundant Array of Independent Disks) is a storage technology that combines multiple disk drive components into a logical unit. A RAID setup stores data over multiple hard disk drives to provide enough redundancy so that data can be recovered if one disk fails.



	No. of hard disk drives required	Total Storage Space
RAID 10	4,6,8	n/2
RAID 6	≥4	n-2
RAID 5	≥3	n-1
RAID 1	2	n/2
RAID 0	≥2	n

Step1. Enable RAID. NVR will reboot after enabling.

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



RAID Mode ☑ Enable

Physical Disk

☑	Port	Vendor	Status	Capacity	Type	Hot Spare
☑	3	WDC WD20EZRX-00DC0B0	Normal	1.819 TB	LOCAL	○

Create RAID

RAID Name: RAID
RAID Type: RAID 0
HDD Port: ☑ 3
RAID Capacity: 0

Array

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

Hot Spare: A disk can be used as the hot spare for any array created in the system.

Rebuild: When the array is in Degraded status, the device can start rebuilding the array automatically with the hot spare disk to ensure the high security and reliability of the data.

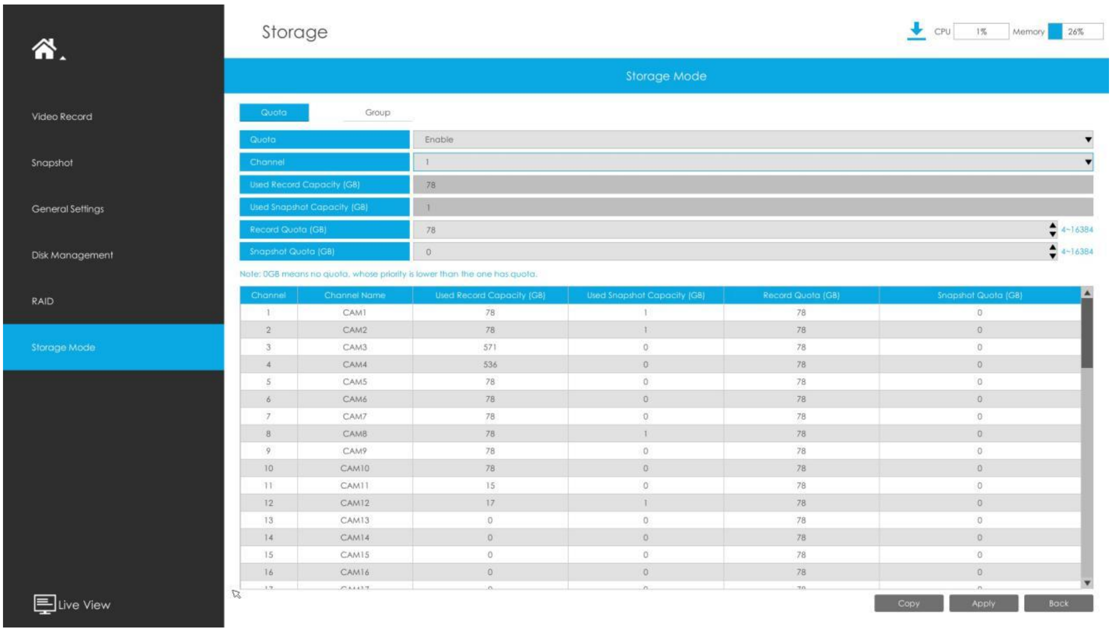
Note:

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

3.7.6 Storage Mode

Quota

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

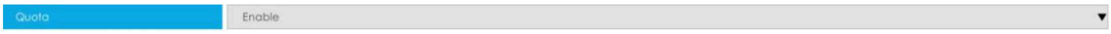


Quota: Enable
Channel: 1
Used Record Capacity (GB): 78
Used Snapshot Capacity (GB): 1
Record Quota (GB): 78 4~16384
Snapshot Quota (GB): 0 4~16384

Note: 0GB means no quota, whose priority is lower than the one has quota.

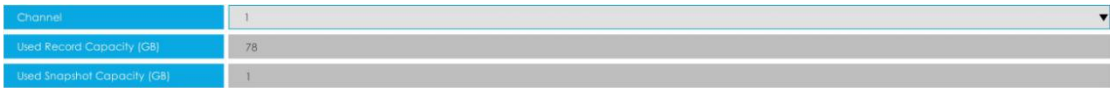
Channel	Channel Name	Used Record Capacity (GB)	Used Snapshot Capacity (GB)	Record Quota (GB)	Snapshot Quota (GB)
1	CAM1	78	1	78	0
2	CAM2	78	1	78	0
3	CAM3	571	0	78	0
4	CAM4	536	0	78	0
5	CAM5	78	0	78	0
6	CAM6	78	0	78	0
7	CAM7	78	0	78	0
8	CAM8	78	1	78	0
9	CAM9	78	0	78	0
10	CAM10	78	0	78	0
11	CAM11	15	0	78	0
12	CAM12	17	1	78	0
13	CAM13	0	0	78	0
14	CAM14	0	0	78	0
15	CAM15	0	0	78	0
16	CAM16	0	0	78	0

Step 1. Enable Quota.



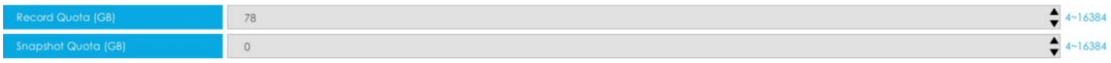
Quota: Enable

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



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

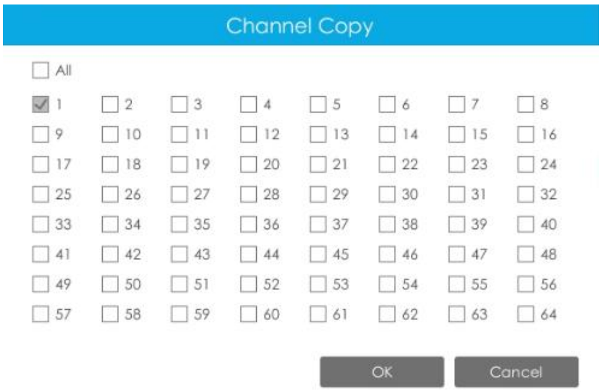
Step 3. Set Quota for record and snapshot separately. And the Quota range from 4 to 16384 GB. The default value is 0 GB.



Record Quota (GB): 78 4~16384
Snapshot Quota (GB): 0 4~16384

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

Click Copy 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 OK to take effect the configuration.

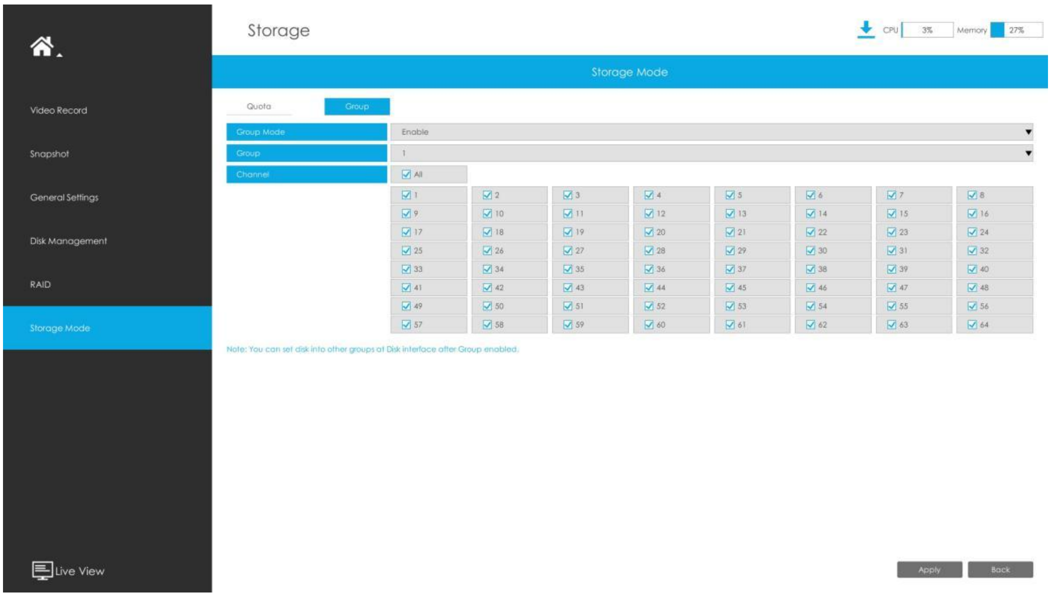


☐ All
☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8
☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16
☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24
☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32
☐ 33 ☐ 34 ☐ 35 ☐ 36 ☐ 37 ☐ 38 ☐ 39 ☐ 40
☐ 41 ☐ 42 ☐ 43 ☐ 44 ☐ 45 ☐ 46 ☐ 47 ☐ 48
☐ 49 ☐ 50 ☐ 51 ☐ 52 ☐ 53 ☐ 54 ☐ 55 ☐ 56
☐ 57 ☐ 58 ☐ 59 ☐ 60 ☐ 61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

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.



Storage Mode

Group Mode: Enable

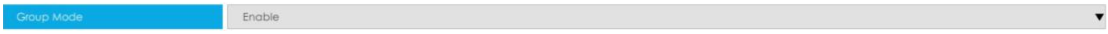
Group: 1

Channel: ☑ 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: You can set disk into other groups at Disk interface after Group enabled.

Step 1. Enable Group.

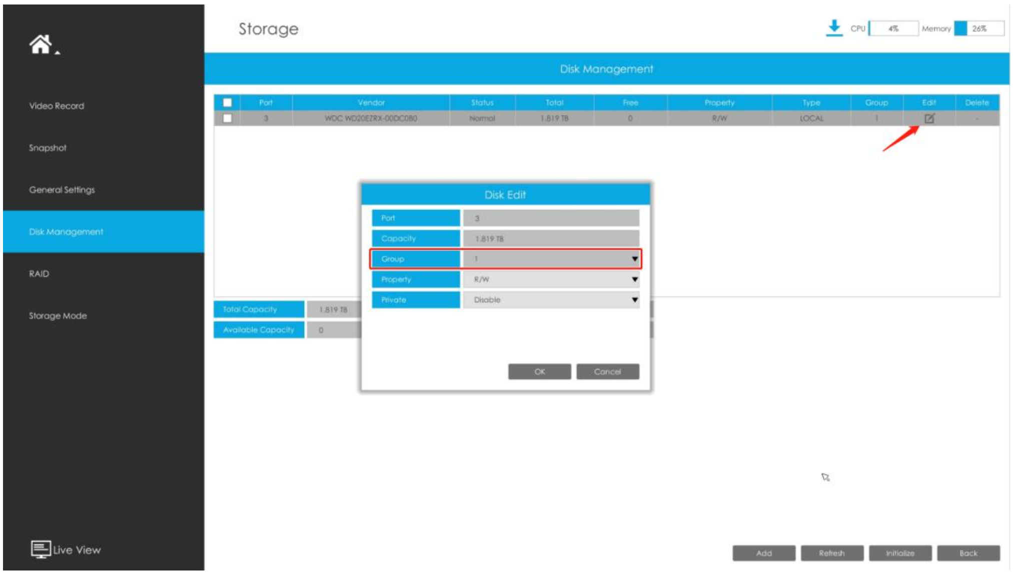


Group Mode: Enable

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

Note:

You can add 16 groups at most.



Disk Management

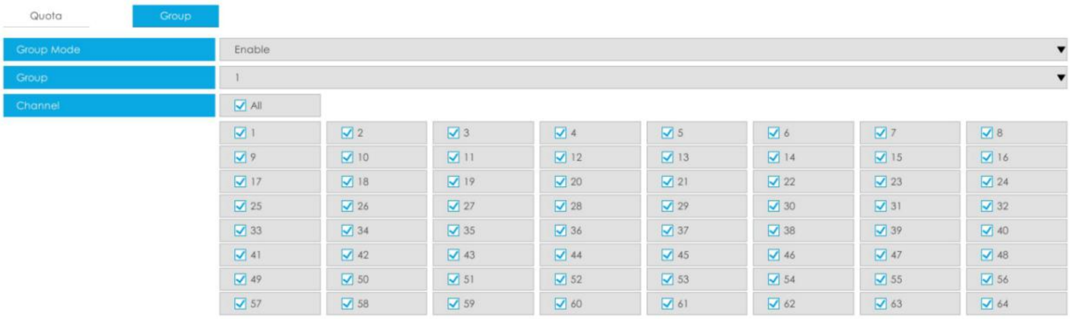
☐	Port	Vendor	Status	Total	Free	Property	Type	Group	Edit	Delete
☐	3	WDC WD20EZRX-00DC080	Normal	1.819 TB	0	R/W	LOCAL	1		-

Total Capacity: 1.819 TB
Available Capacity: 0

Disk Edit

Port: 3
Capacity: 1.819 TB
Group: 1
Property: R/W
Private: Disable

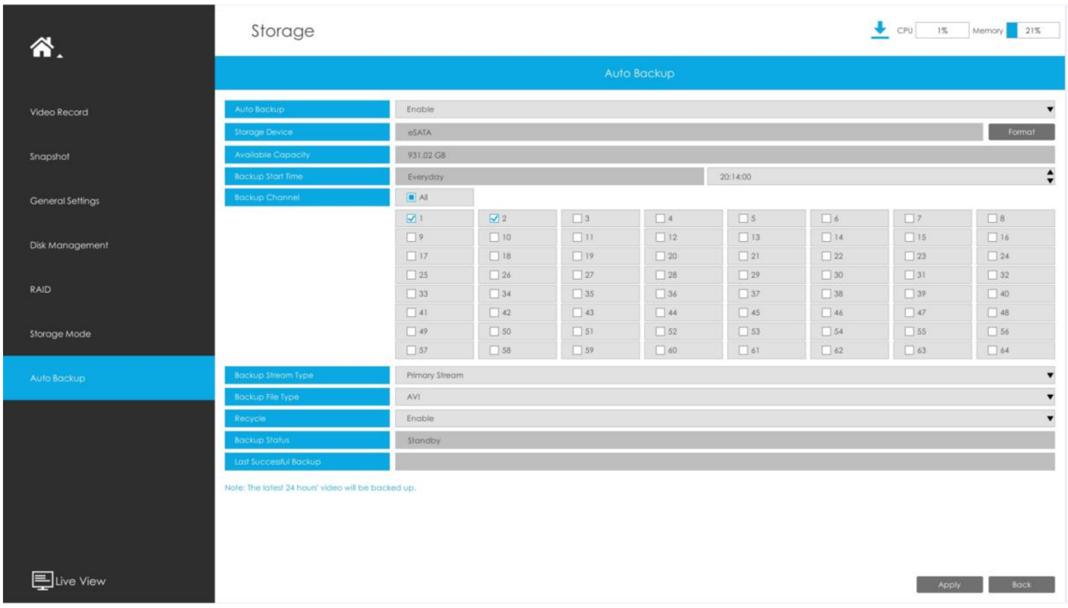
Step 3. Select group and channels which you want to record into this group.



Group Mode: Enable
Group: 1
Channel: ☑ 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

3.7.7 Auto Backup



Auto Backup

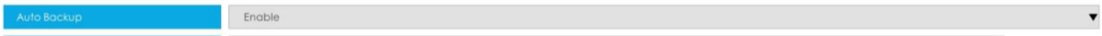
Auto Backup: Enable
Storage Device: eSATA
Available Capacity: 931.02 GB
Backup Start Time: Everyday 20:14:00
Backup Channel: ■ All

☑ 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

Backup Stream Type: Primary Stream
Backup File Type: AVI
Recycle: Enable
Backup Status: Standby
Last Successful Backup:

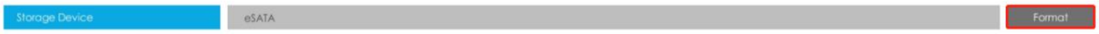
Note: The latest 24 hours' video will be backed up.

Step 1. Enable Auto Backup.

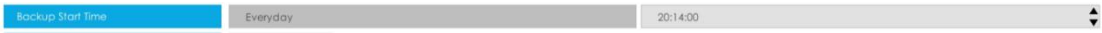


Auto Backup: Enable

Step 2. Click Format to format the eSATA disk.


Storage Device eSATA

Step 3. Set Backup Start Time.


Backup Start Time Everyday 20:14:00

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

Note:

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

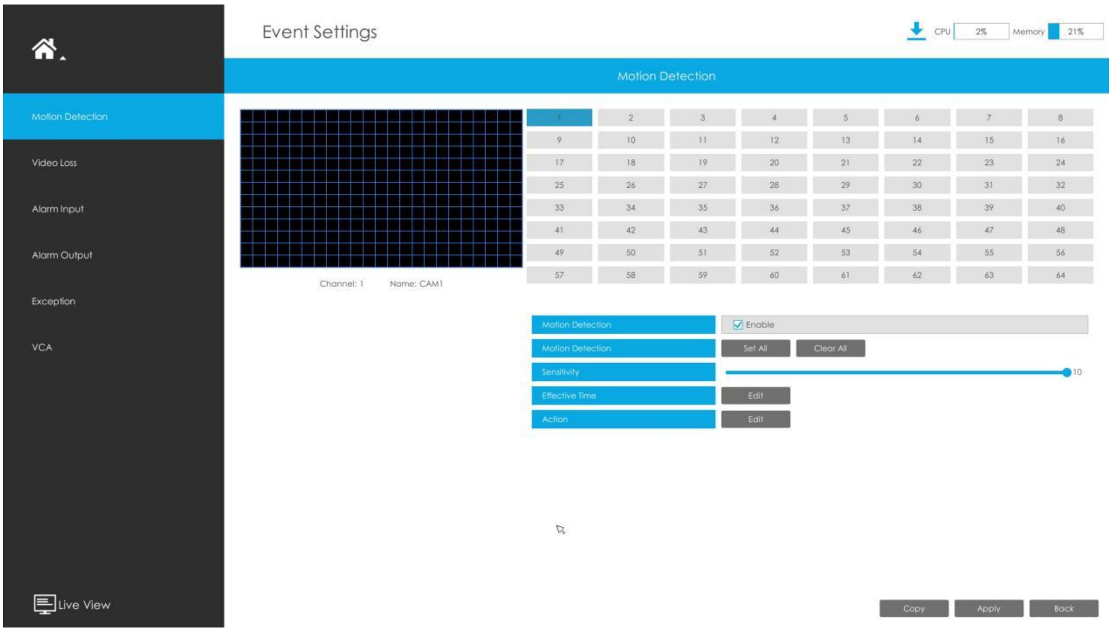
- No Storage Device
- Unsupported Storage Device Format
- Standby
- Working (xx%)

② If there are already successfully backed up videos, the time when the backup ends will be displayed in Last Successful Backup bar.

③ Only NVR 8000 Series supports Auto Backup function.

3.8 Event

3.8.1 Motion Detection

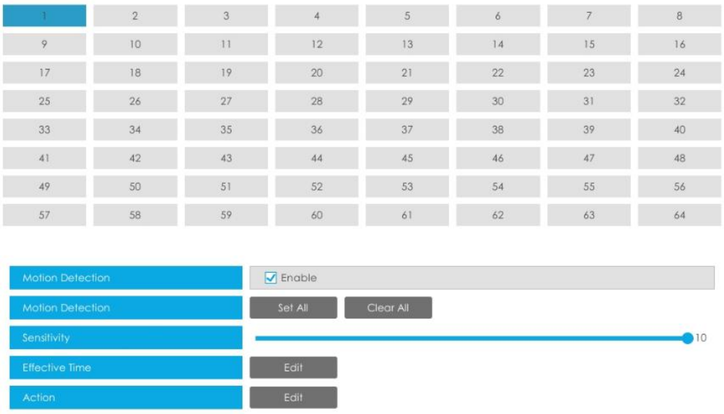


Motion Detection: ☑ Enable

Sensitivity: 10

Step 1. Enable Motion Detection.

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

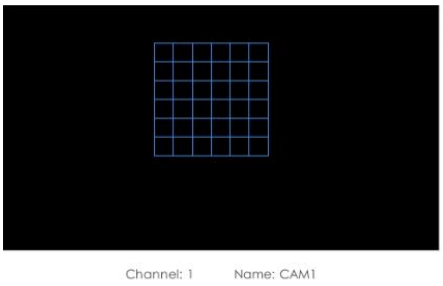


Motion Detection: ☑ Enable

Sensitivity: 10

Step2: Set the area for triggering motion detection.

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

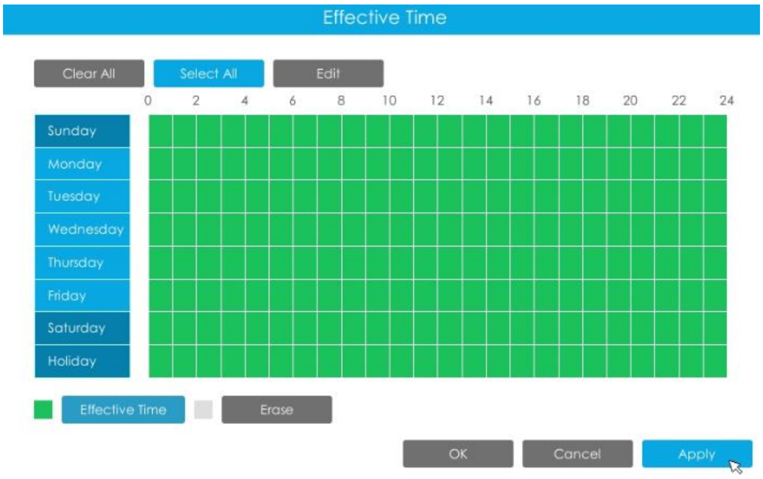


Note:

The motion detection area will be synchronized to Camera.

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

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



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

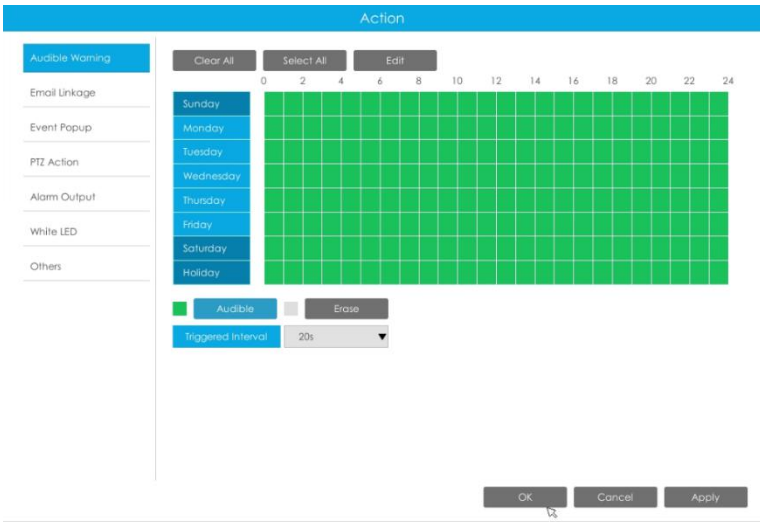
Audible Warning: NVR will trigger an audible beep when motion is detected.

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

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



Triggered Interval 20s

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

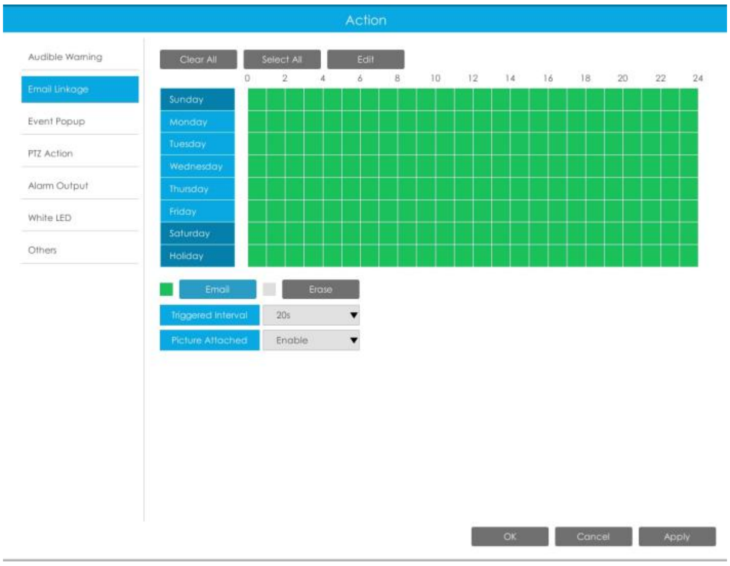
The user can set effective schedule as following two ways:

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.



Triggered Interval: 20s

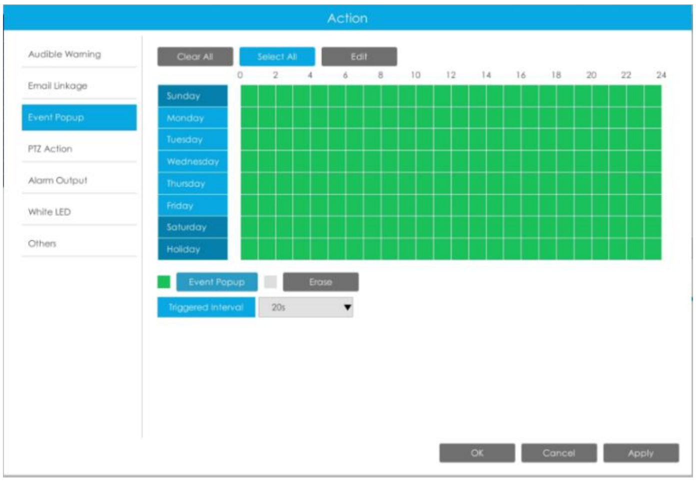
Picture Attached: Enable

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.



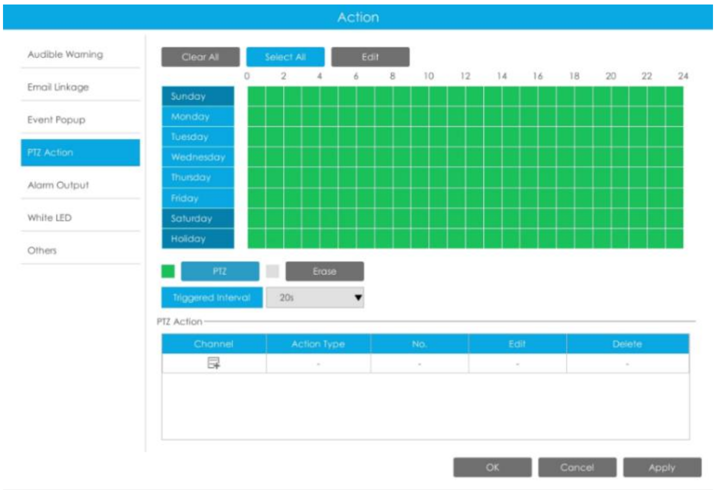
Triggered Interval: 20s

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

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

② Click Edit to edit record effective time manually.

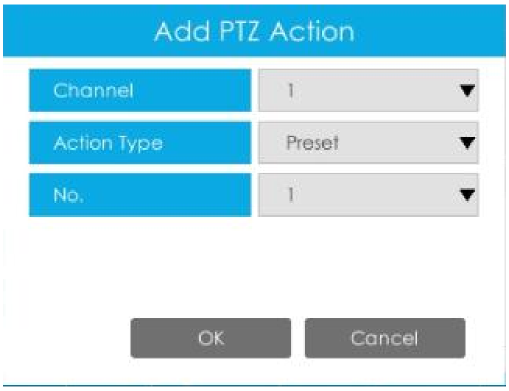
Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval: 20s

Channel	Action Type	No.	Edit	Delete
	-	-	-	-

And you can add PTZ Action by clicking .



Channel: 1

Action Type: Preset

No.: 1

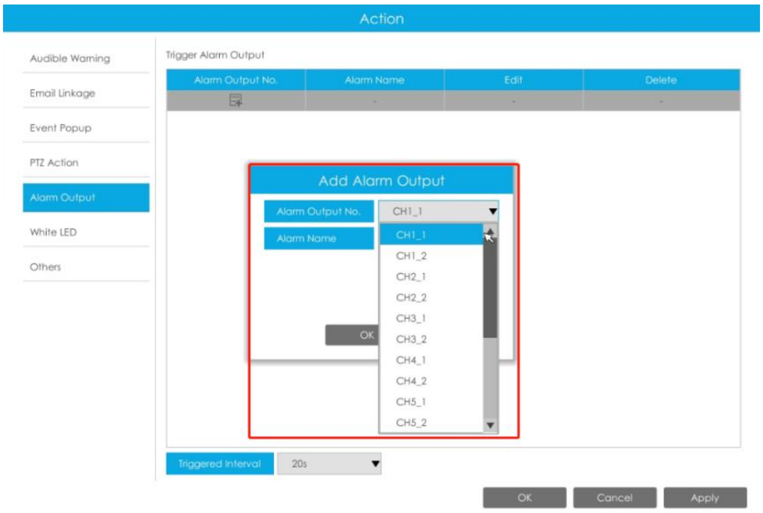
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



Alarm Output No.: CH1_1

Triggered Interval: 20s

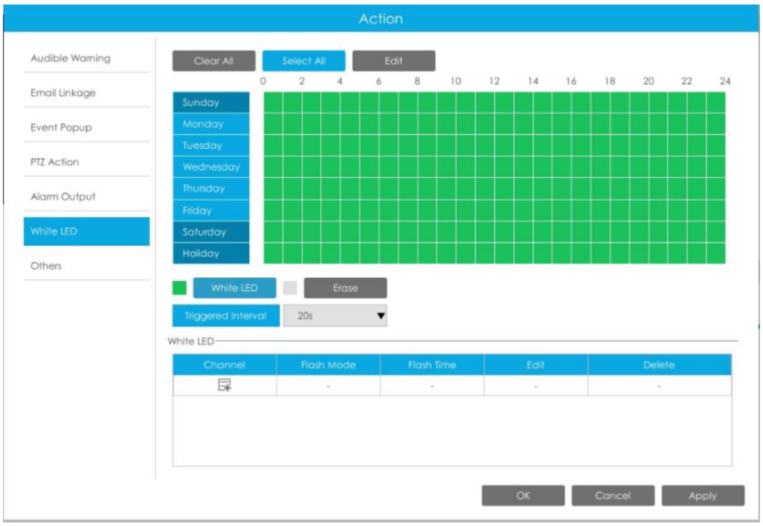
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

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

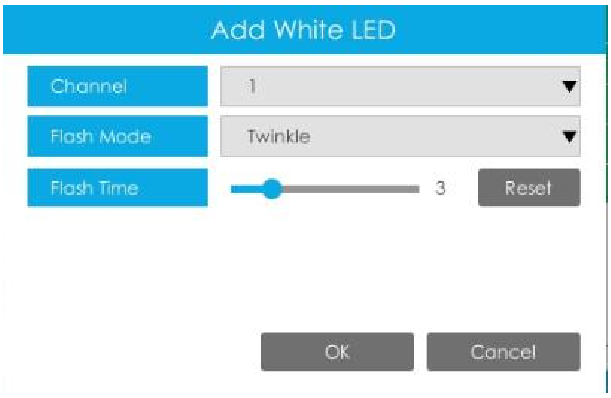
② Click Edit to edit effective time manually.

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



Triggered Interval: 20s

And you can add White LED by clicking .



Channel: 1

Flash Mode: Twinkle

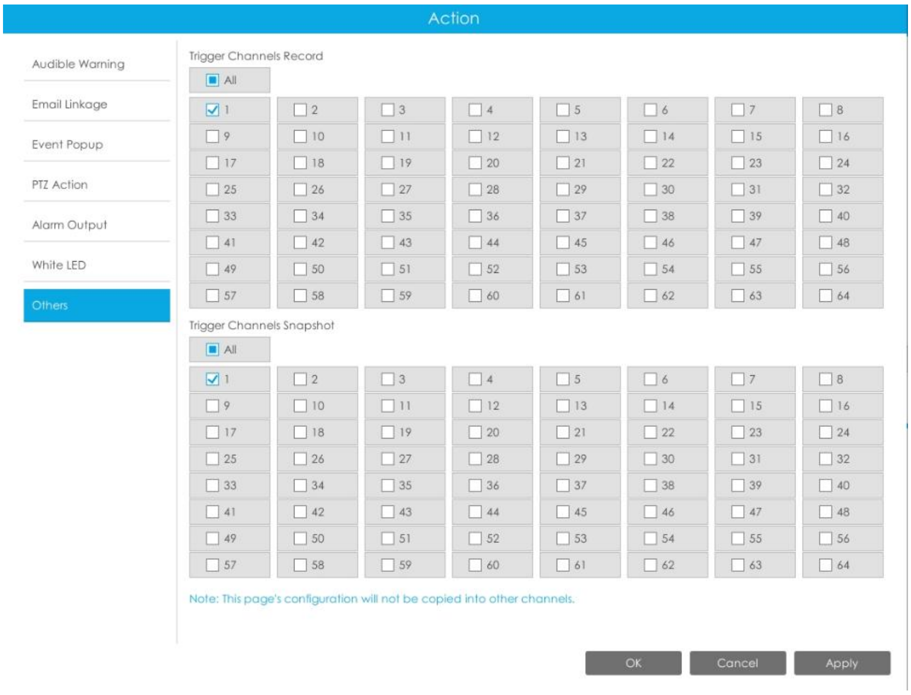
Flash Time: 3

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.



Trigger Channels Record: ☑ 1

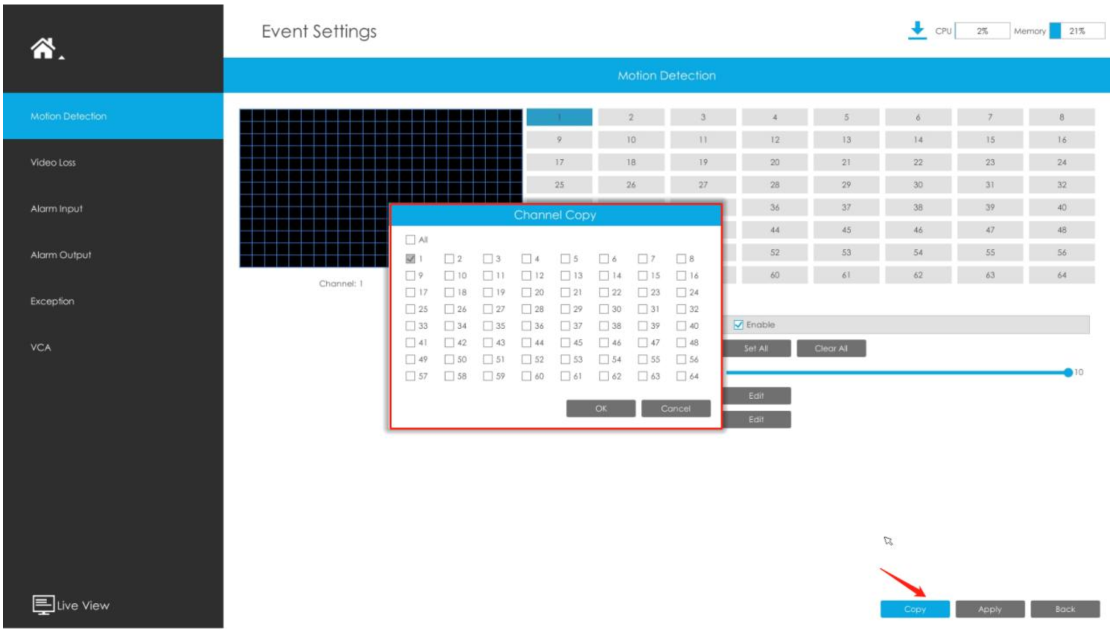
Trigger Channels Snapshot: ☑ 1

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

Note：

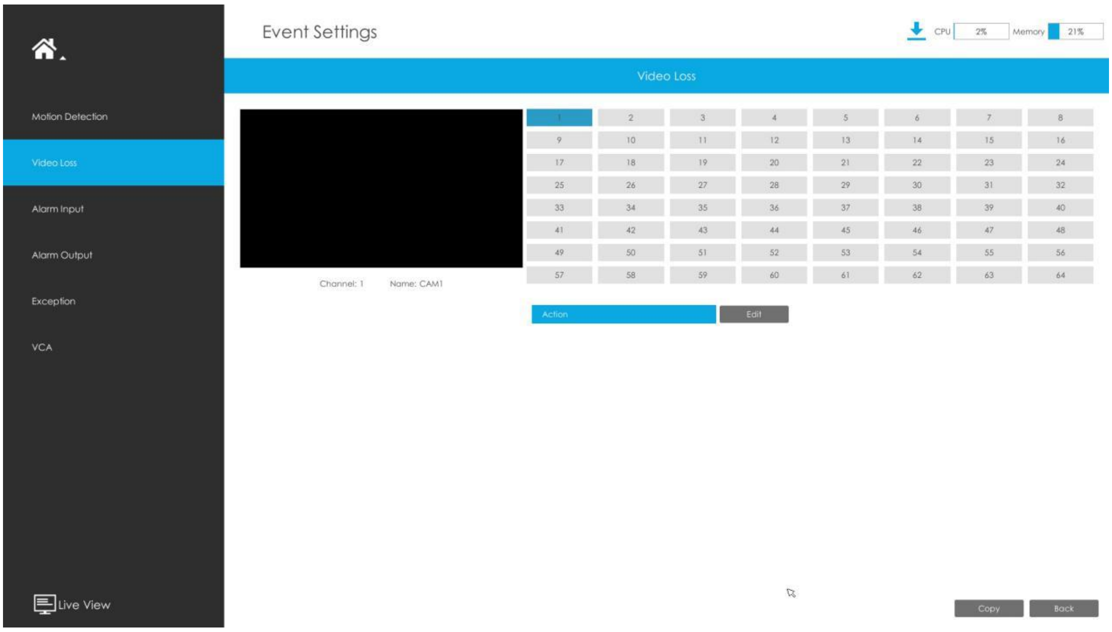
Make sure you have set correct schedule for record and snapshot before setting the Event Action.

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.

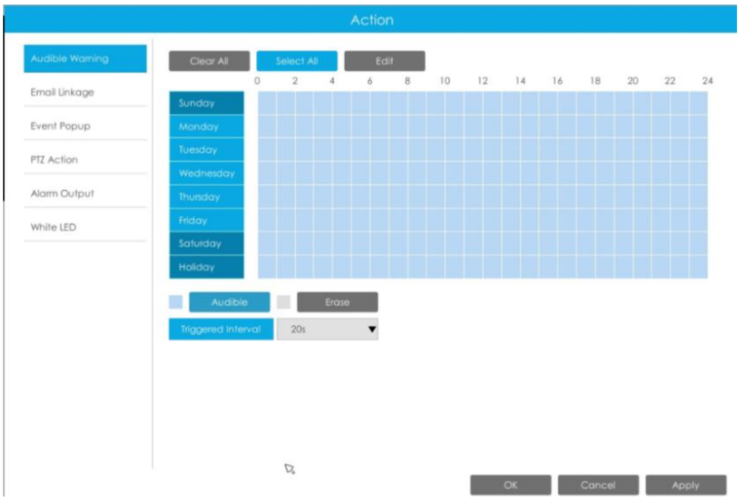
Audible Warning: NVR will trigger an audible beep when motion is detected.

The user can set effective schedule as following two ways:

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

② Click Edit to edit effective time manually.

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



Triggered Interval 20s

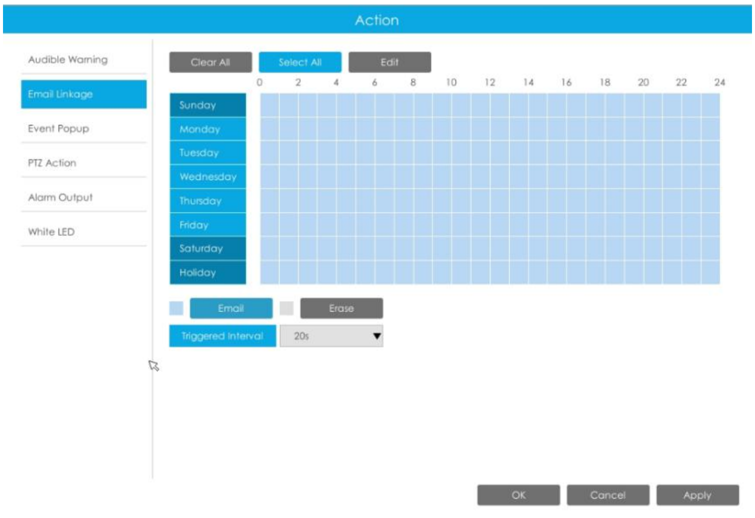
Email Linkage: NVR will send an email to the address you set before.

User can set effective schedule as following two ways:

① Select the operation type: Email or Erase. Then drag a 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.



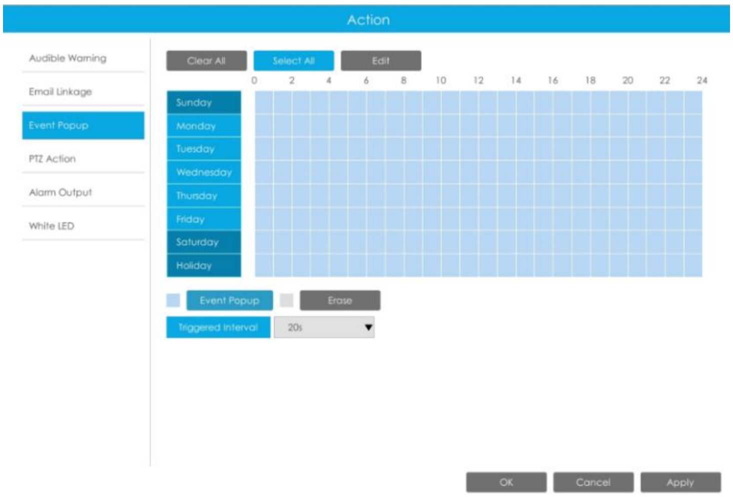
Triggered Interval 20s

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.



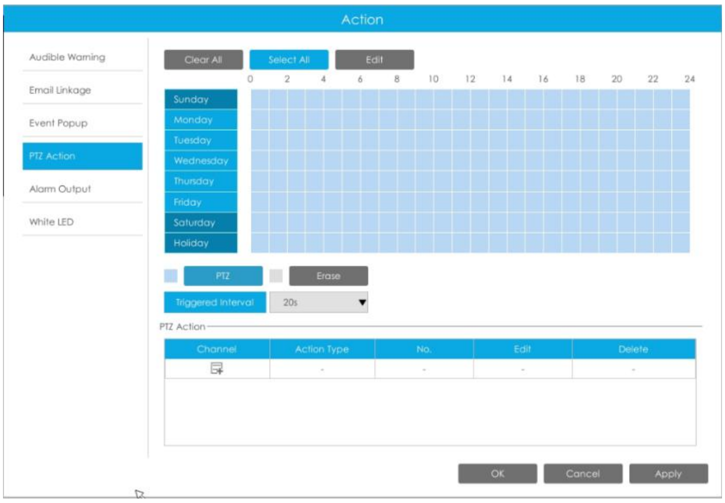
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

User can set effective schedule as following two ways:

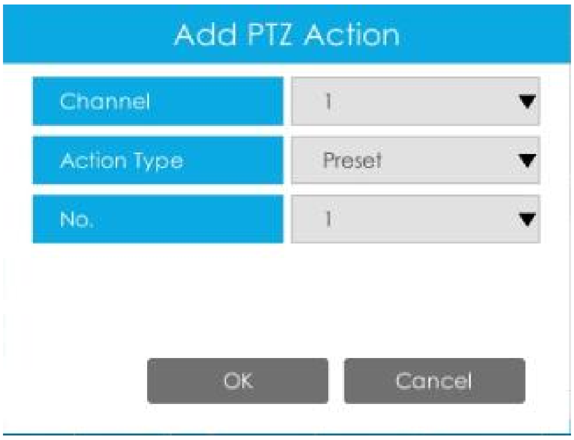
① Select the operation type: PTZ or Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear to set or clear all time settings.

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: 1

Action Type: Preset

No.: 1

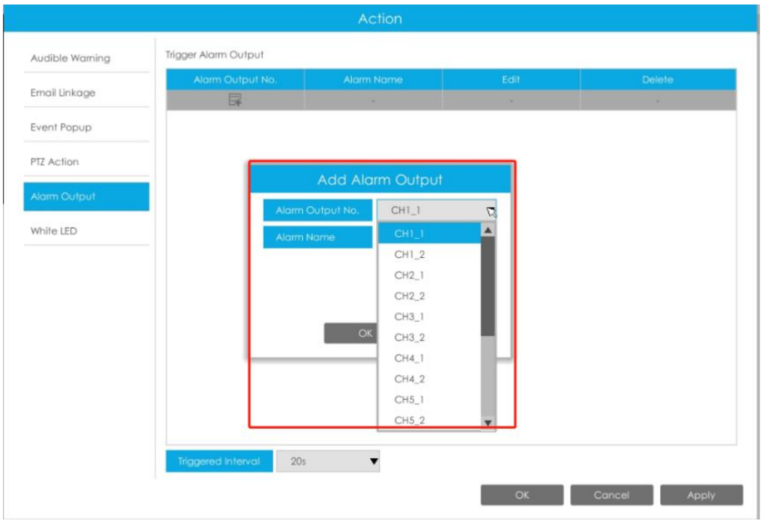
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



Alarm Output No.: CH1_1

Triggered Interval: 20s

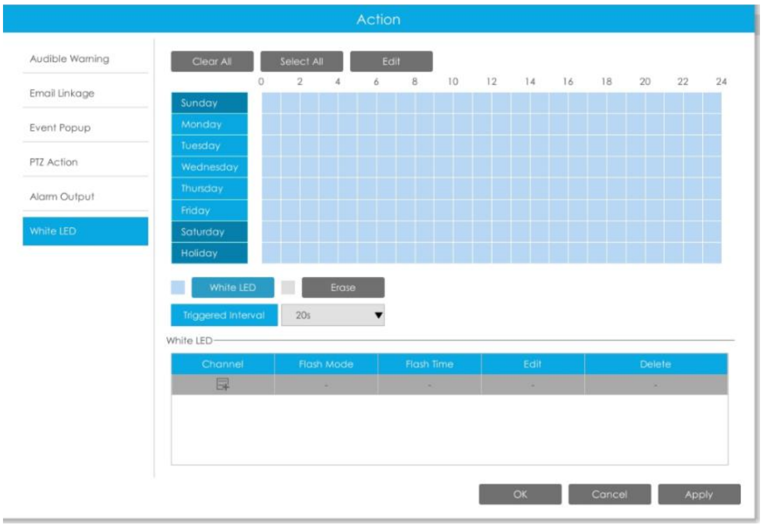
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

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

② Click Edit to edit effective time manually.

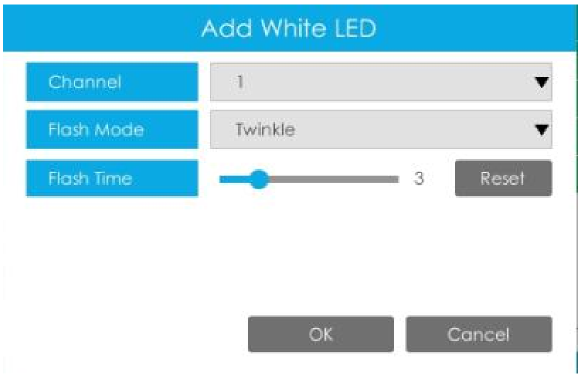
Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval: 20s

White LED

And you can add White LED by clicking .



Channel: 1

Flash Mode: Twinkle

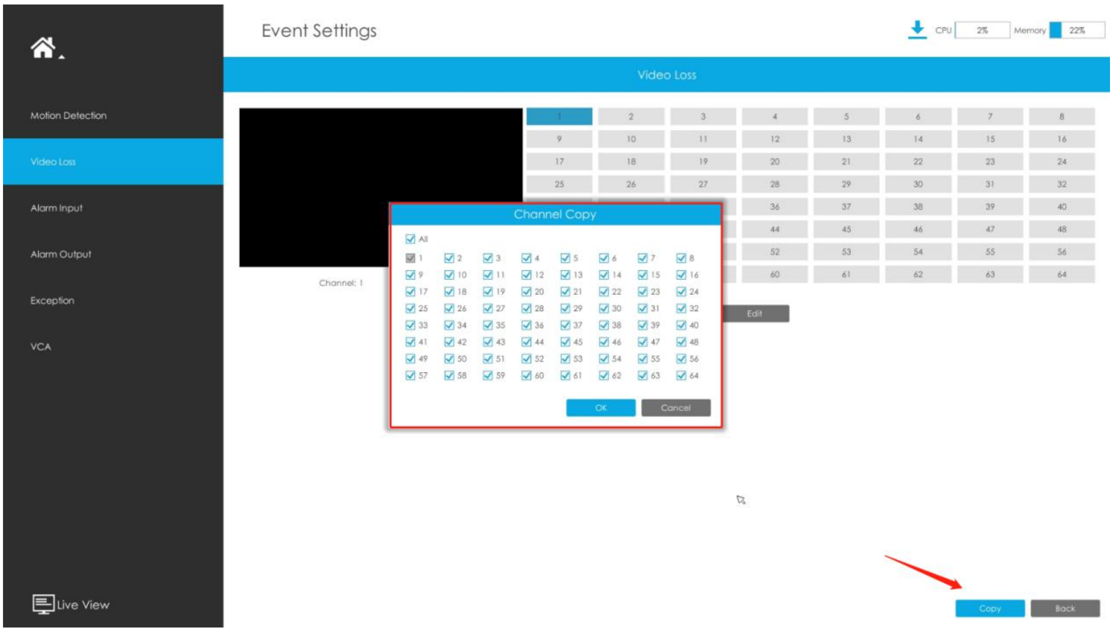
Flash Time: 3

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 and ☑ to copy the same configuration to other channels.

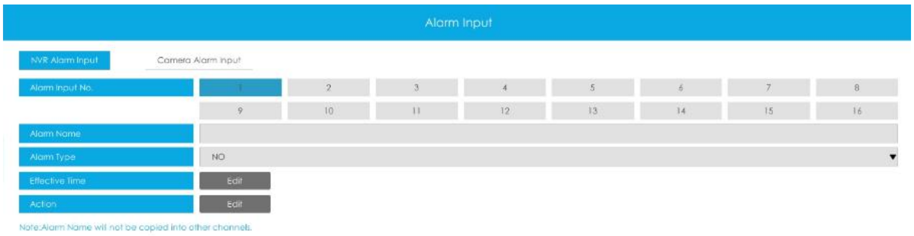


3.8.3 Alarm Input

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 Type: NO

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 Edit **.**

Step 3. Set action for alarm input by clicking corresponding Edit **.**

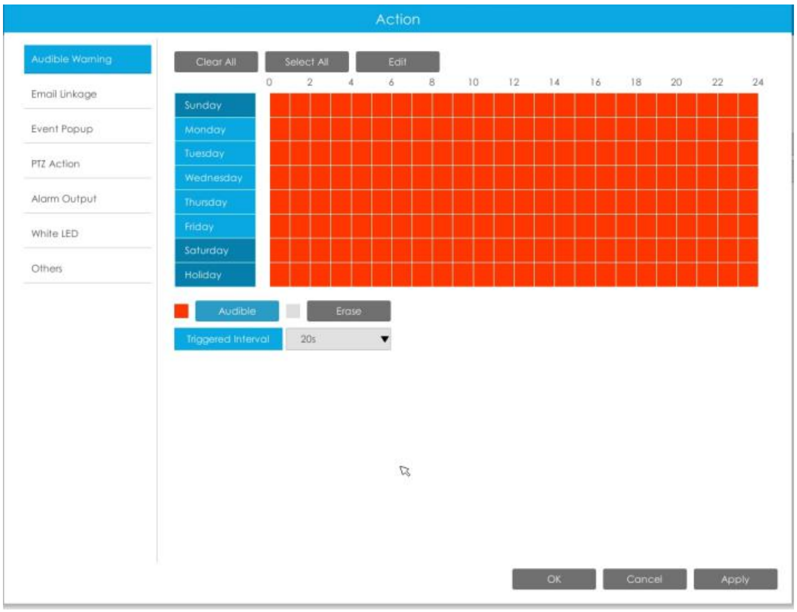
Audible Warning: NVR will trigger an audible beep when alarm is triggered.

User can set effective schedule as following two ways:

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

② Click Edit to edit effective time manually.

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



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:

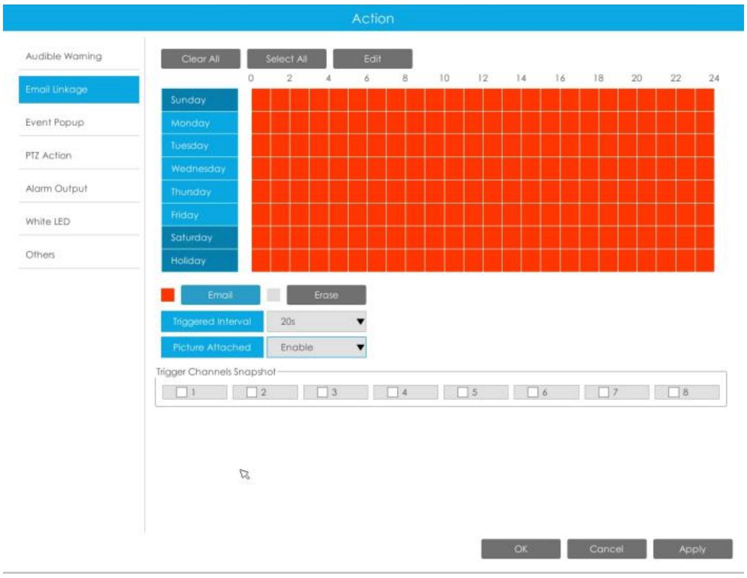
① Select the operation type: Email or Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

② Click Edit to edit effective time manually.

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

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

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



Triggered Interval: 20s

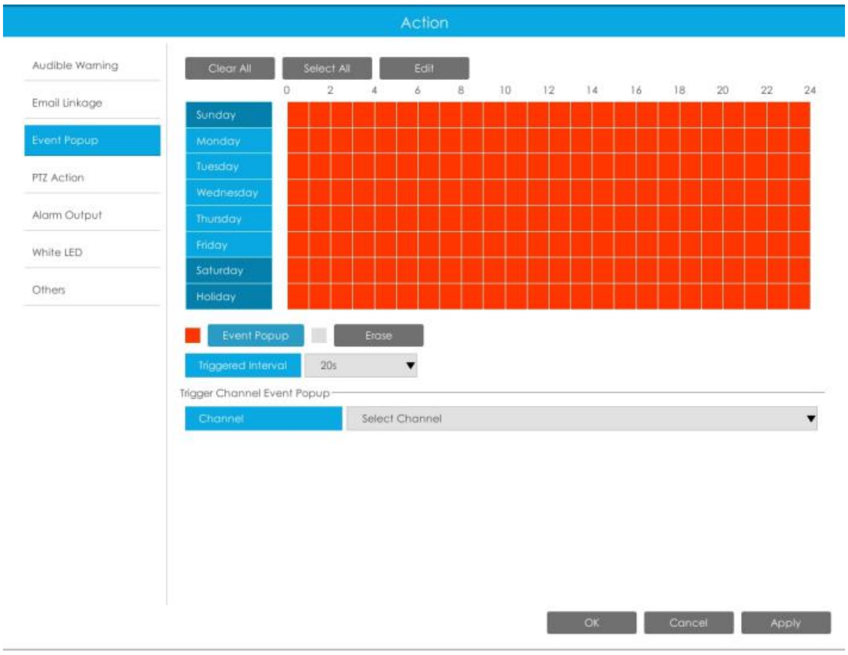
Picture Attached: Enable

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.



Triggered Interval: 20s

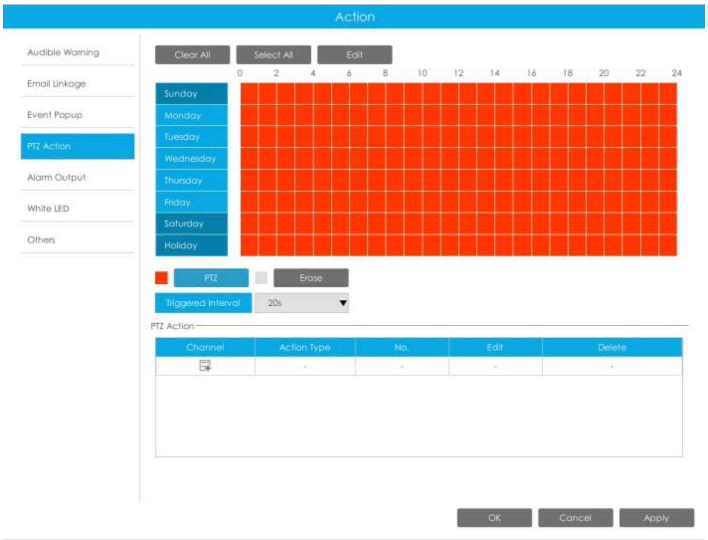
Channel: Select Channel

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.

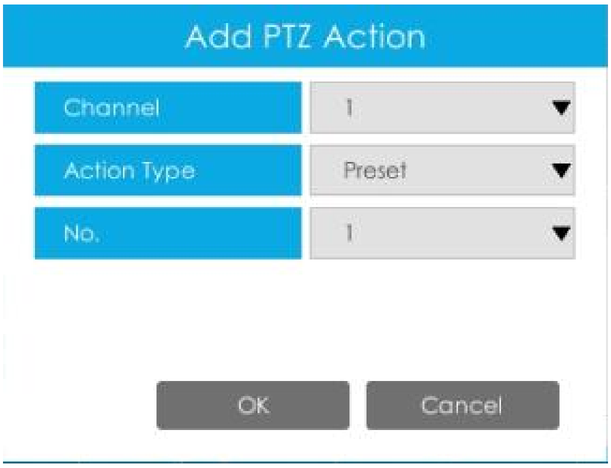
② Click Edit to edit record effective time manually.

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



Triggered Interval: 20s

And you can add PTZ Action by clicking .



Channel: 1

Action Type: Preset

No.: 1

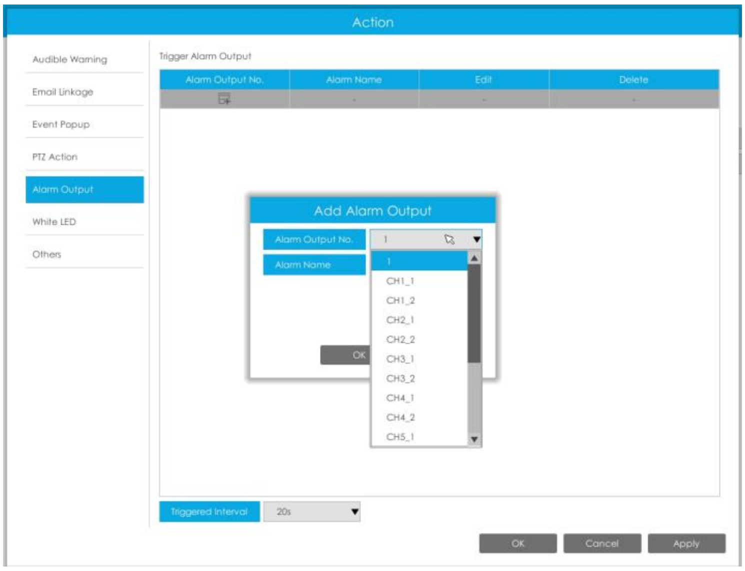
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



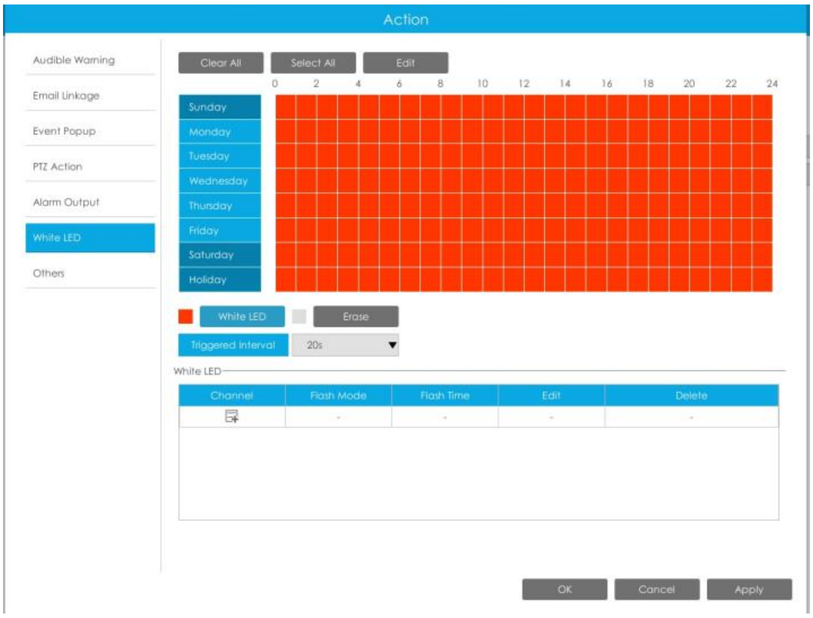
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

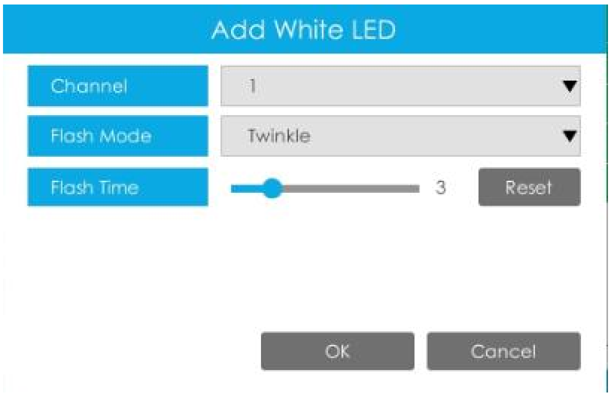
① Select the operation type, White LED and Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

② Click Edit to edit effective time manually.

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



And you can add White LED by clicking ⊞.



Channel: 1

Flash Mode: Twinkle

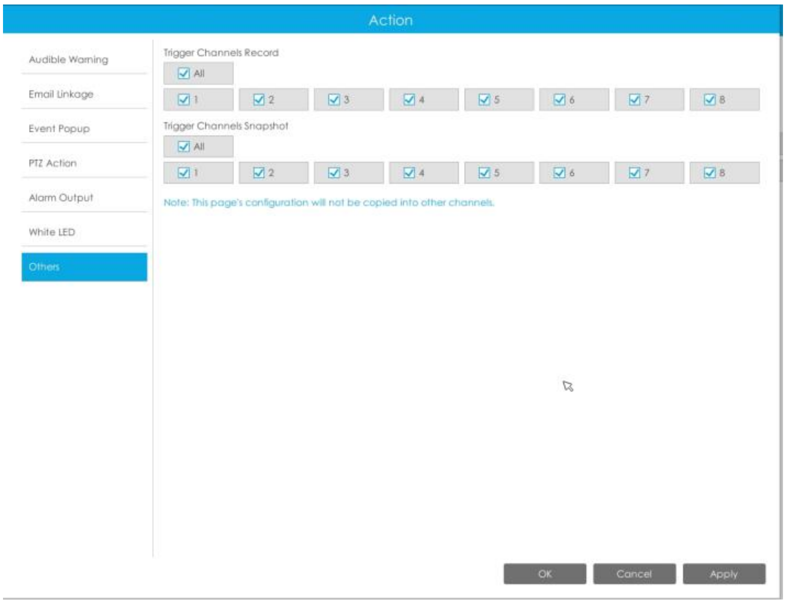
Flash Time: 3

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.



Trigger Channels Record

☑ All

☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

Trigger Channels Snapshot

☑ All

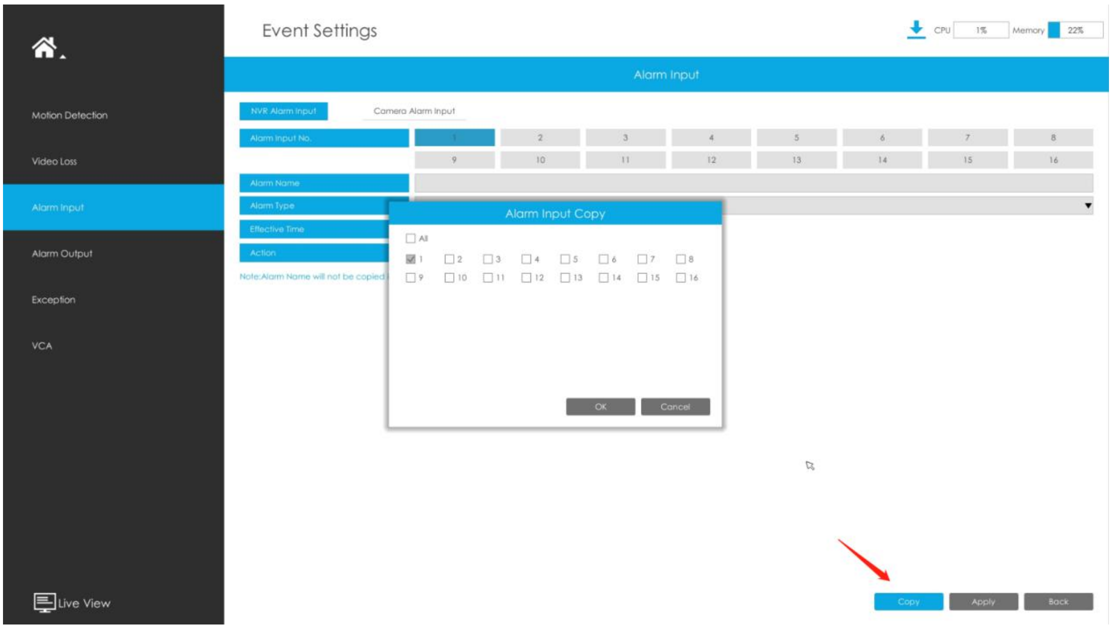
☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

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

Note:

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

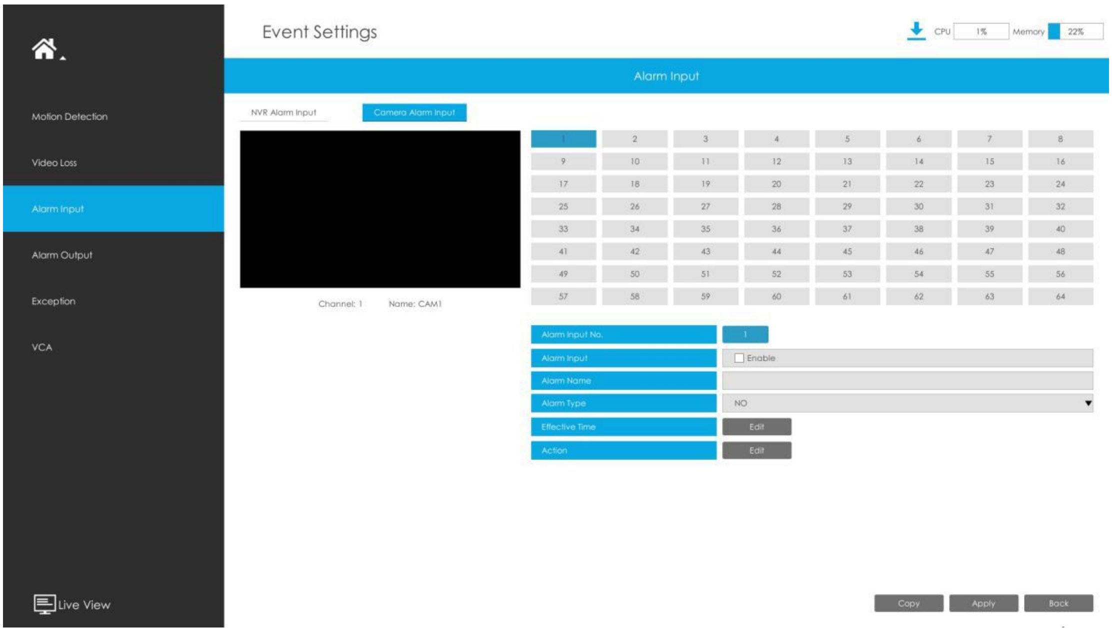
Step 4: Copy alarm input settings to other input interface by clicking Copy.



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 Edit**.**

Step 3. Set action for alarm input by clicking corresponding Edit**.**

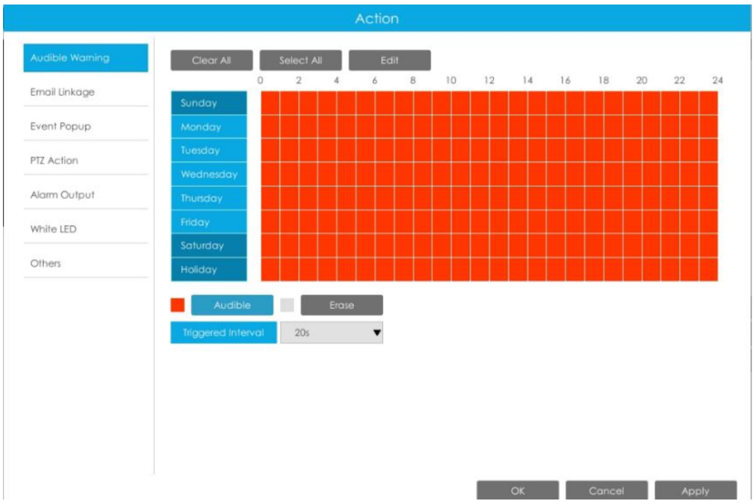
Audible Warning: NVR will trigger an audible beep when camera alarm is triggered.

User can set effective schedule as following two ways:

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

② Click Edit to edit effective time manually.

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



Triggered Interval: 20s

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

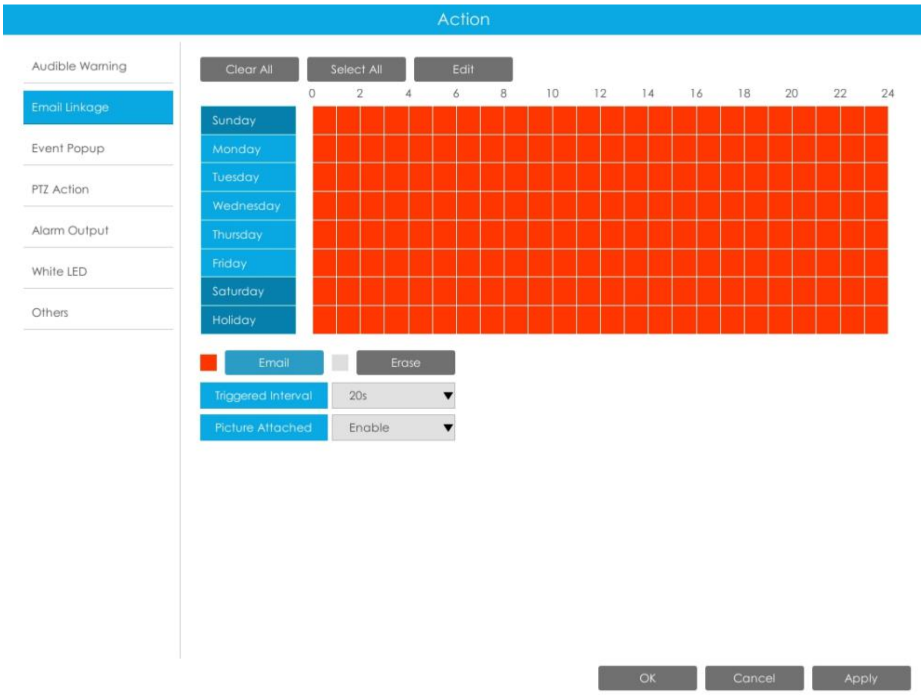
User can set effective schedule as following two ways:

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 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.



Triggered Interval: 20s

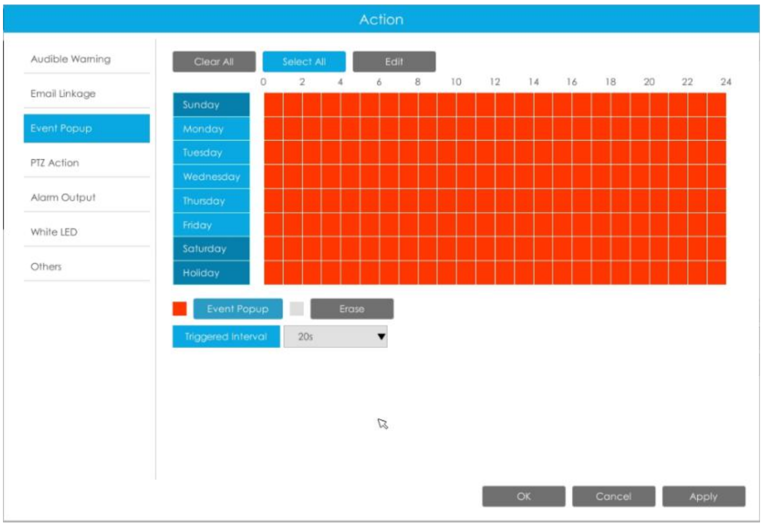
Picture Attached: Enable

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.



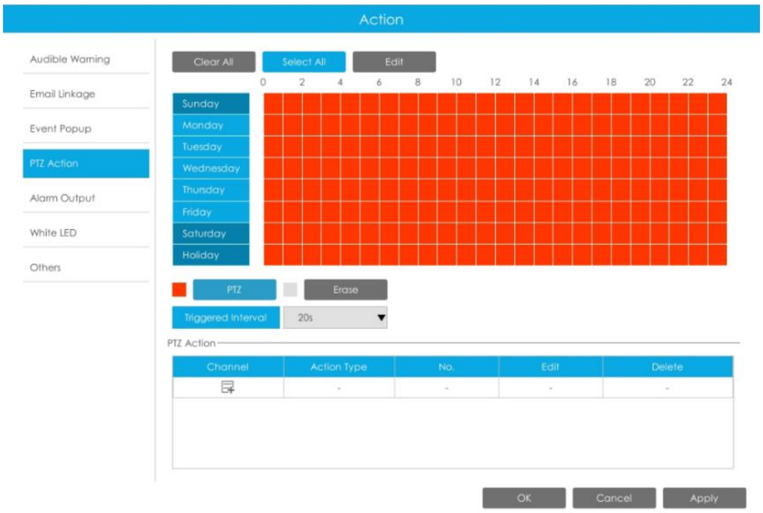
Triggered Interval: 20s

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

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

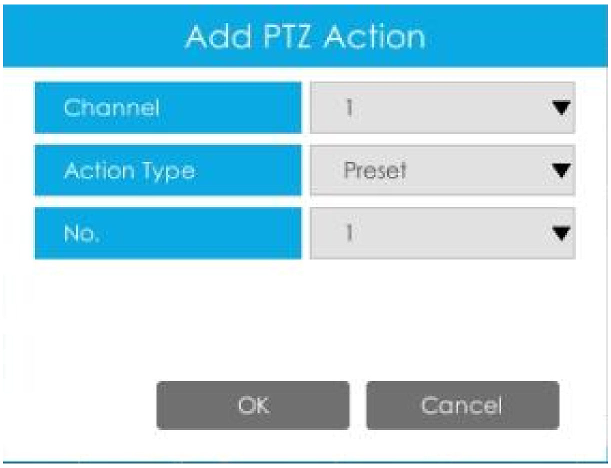
② Click Edit to edit record effective time manually.

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



Triggered Interval 20s

And you can add PTZ Action by clicking .



Channel 1

Action Type Preset

No. 1

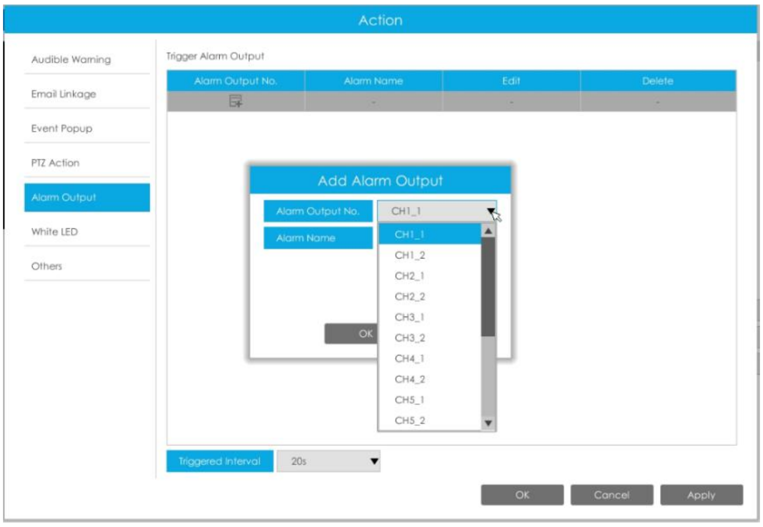
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



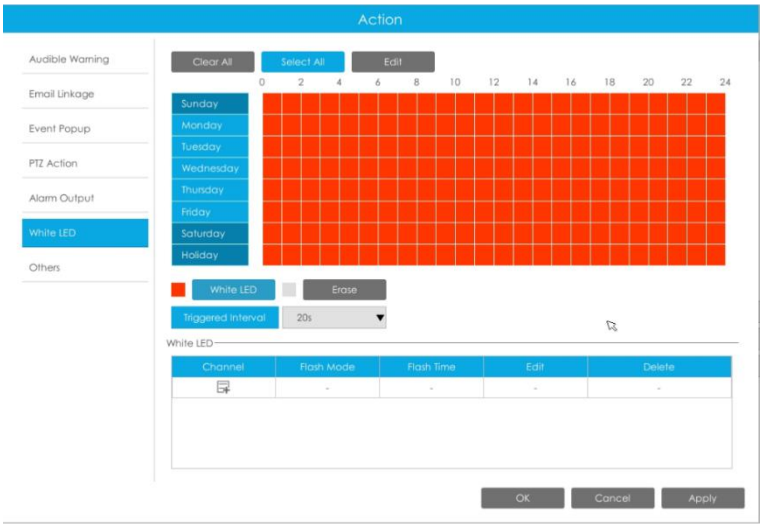
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

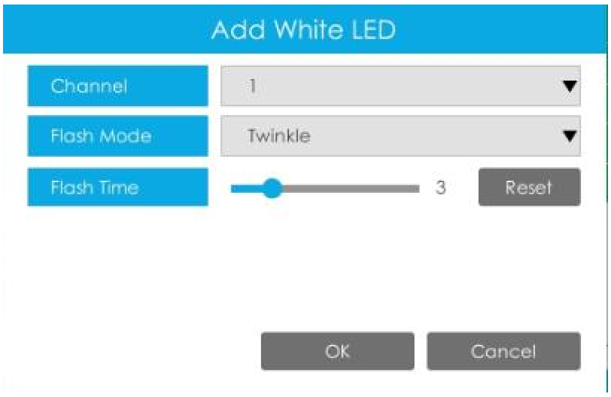
① Select the operation type, White LED and Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

② Click Edit to edit effective time manually.

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



And you can add White LED by clicking ⊞.



Channel: 1

Flash Mode: Twinkle

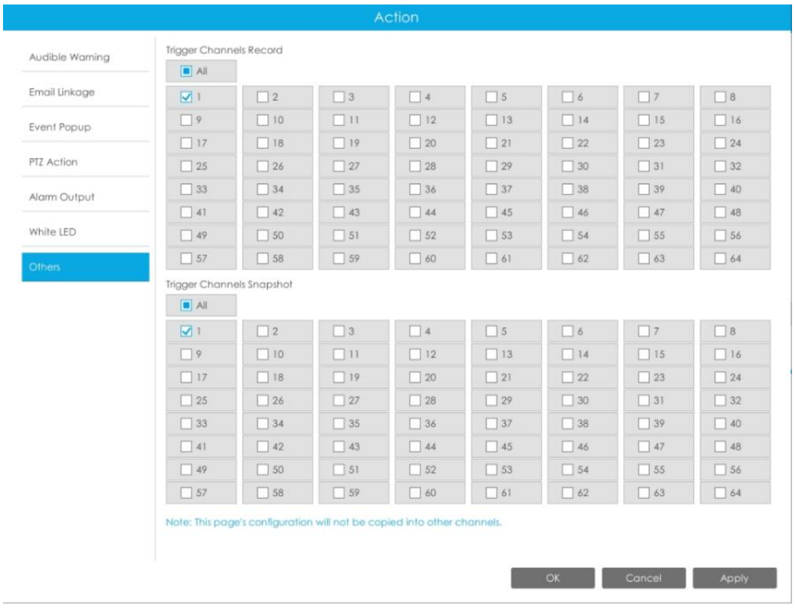
Flash Time: 3

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.



Trigger Channels Record: ☑ 1

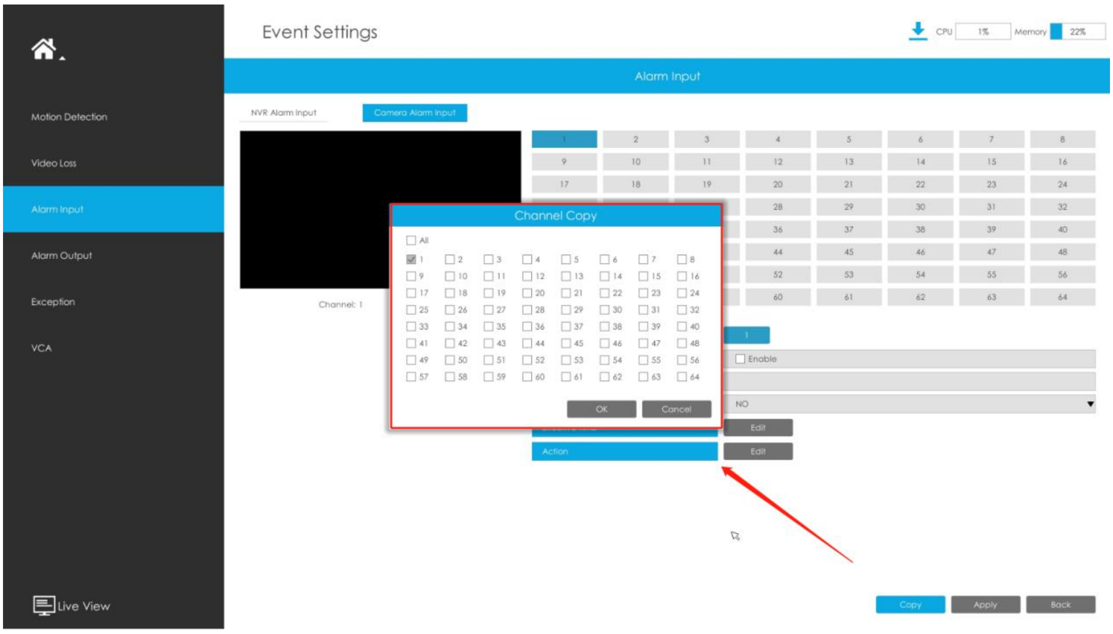
Trigger Channels Snapshot: ☑ 1

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

Note:

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

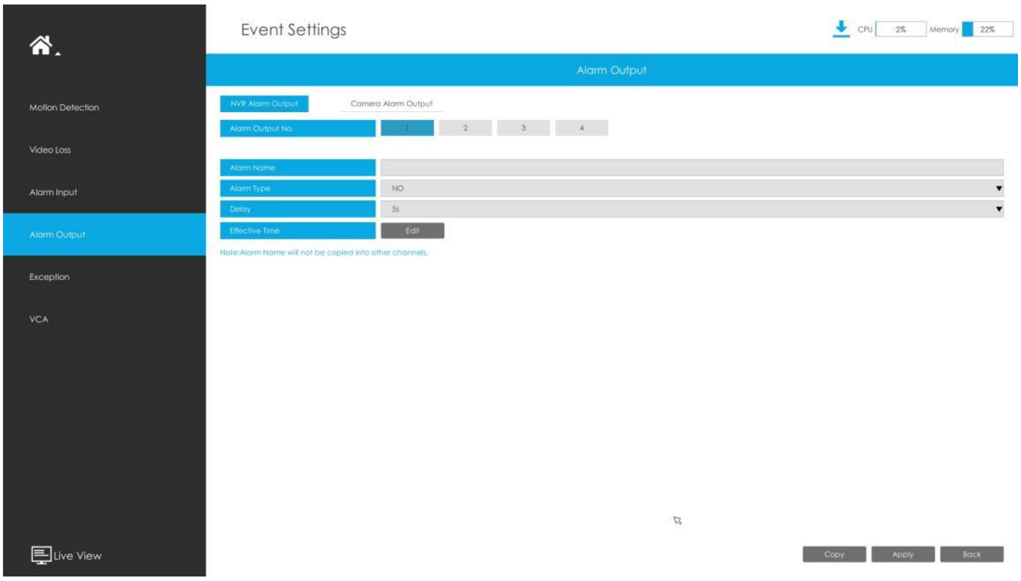
Step 3: Copy alarm input settings to other input interface by clicking Copy.



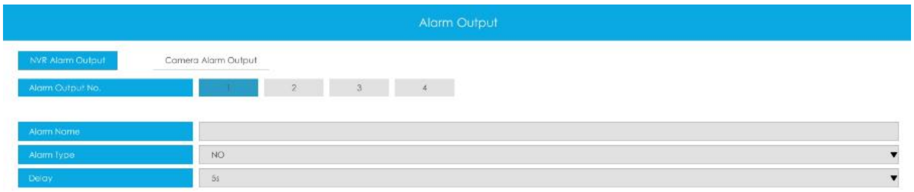
3.8.4 Alarm Output

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.



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



Alarm Output No.: 1

Alarm Name:

Alarm Type: NO

Delay: 5s

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.

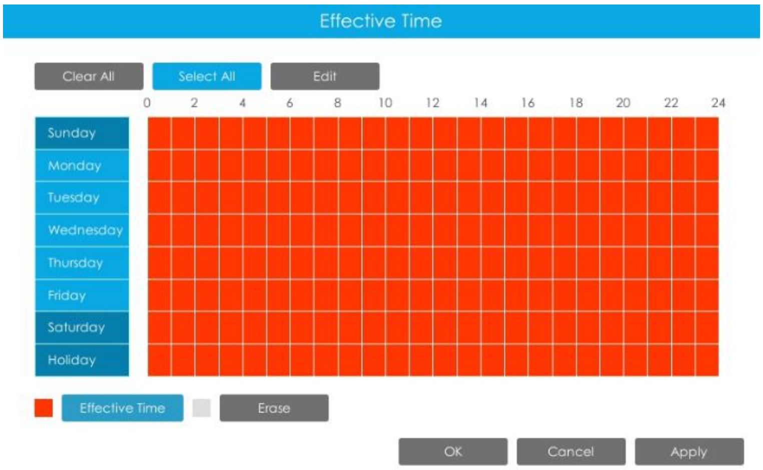
Delay: The output time for alarm. If the output alarm lasts too long, you can select the Manually Clear to stop it.

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

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

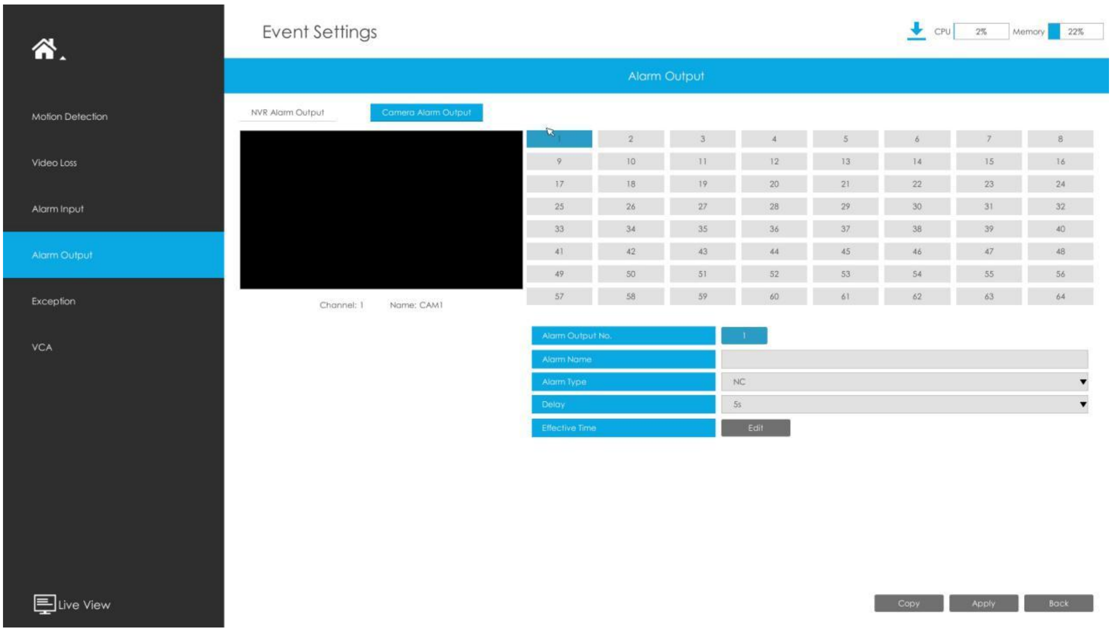


Step 3: Copy alarm output settings to other output interface by clicking Copy.

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.



Channel: 1 Name: CAM1

Alarm Output No.: 1
Alarm Name:
Alarm Type: NC
Delay: 5s
Effective Time: Edit

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.

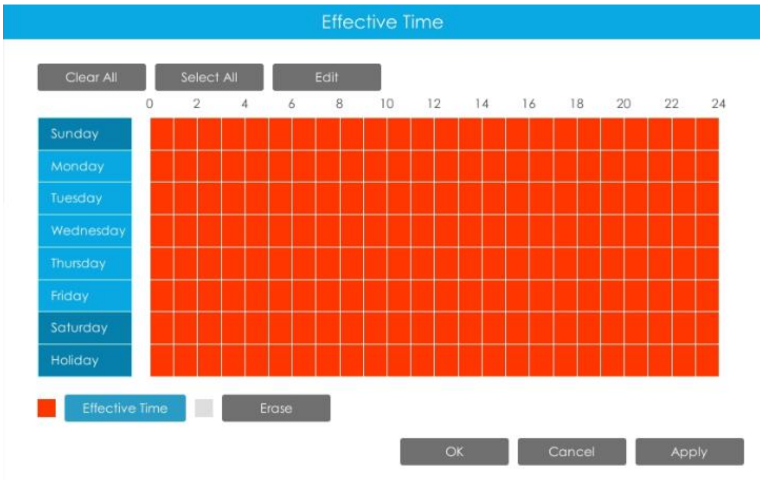
Delay: The output time for alarm. If the output alarm lasts too long, you can select the Manually Clear to stop it.

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

The user can set effective schedule as following two ways:

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

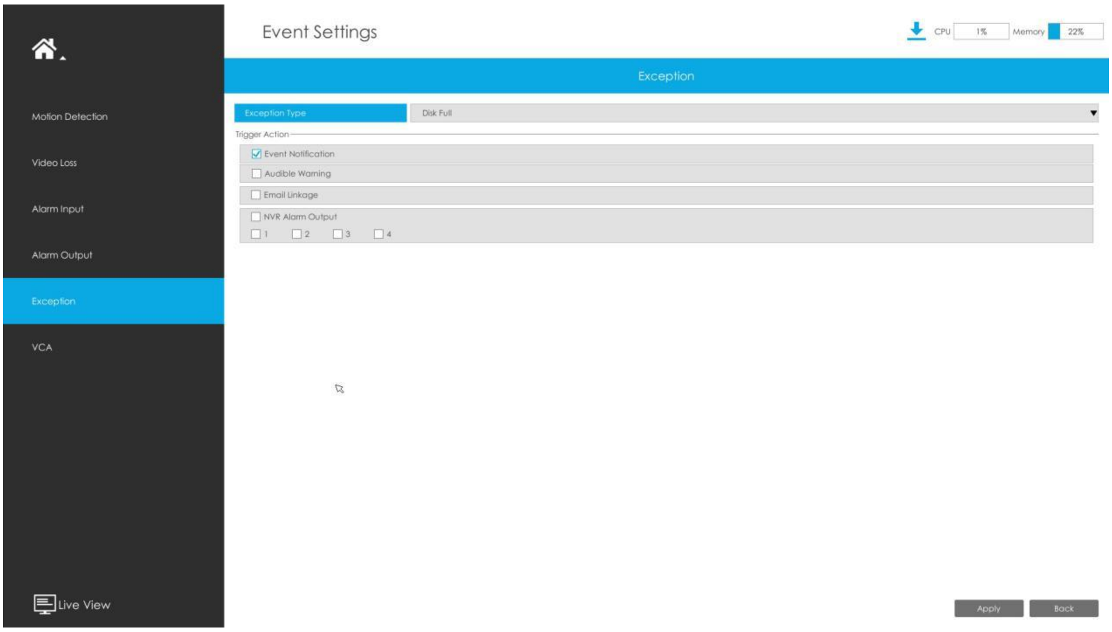
② Click Edit to edit record effective time manually.



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

3.8.5 Exception

Step1. Select Exception Type.



Event Settings

CPU 1% Memory 22%

Exception

Exception Type: Disk Full

Trigger Action

☑ Event Notification

☐ Audible Warning

☐ Email Linkage

☐ NVR Alarm Output

☐ 1 ☐ 2 ☐ 3 ☐ 4

Network Disconnected: Loss of network.

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

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

Disk Error: Failed to recognize HDD.

Disk Uninitialized: Disk is uninitialized.

No Disk: There is no storage device.

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

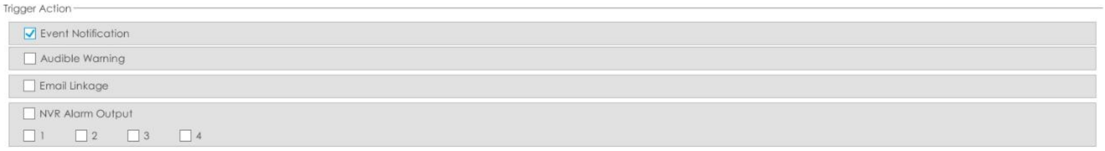
Event Notification: You will got a notification in Live View if an alarm is triggered.

Audible Warning: NVR will trigger an audible beep.

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

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

Alarm Output: NVR will trigger the corresponding Alarm Output.



Trigger Action

☑ Event Notification

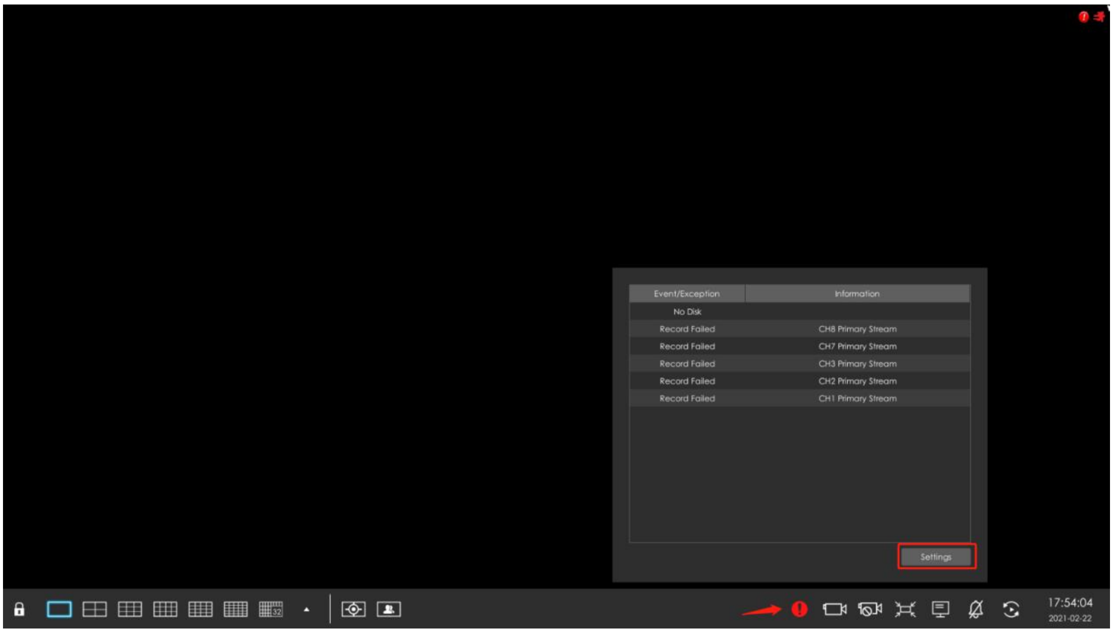
☐ Audible Warning

☐ Email Linkage

☐ NVR Alarm Output

☐ 1 ☐ 2 ☐ 3 ☐ 4

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



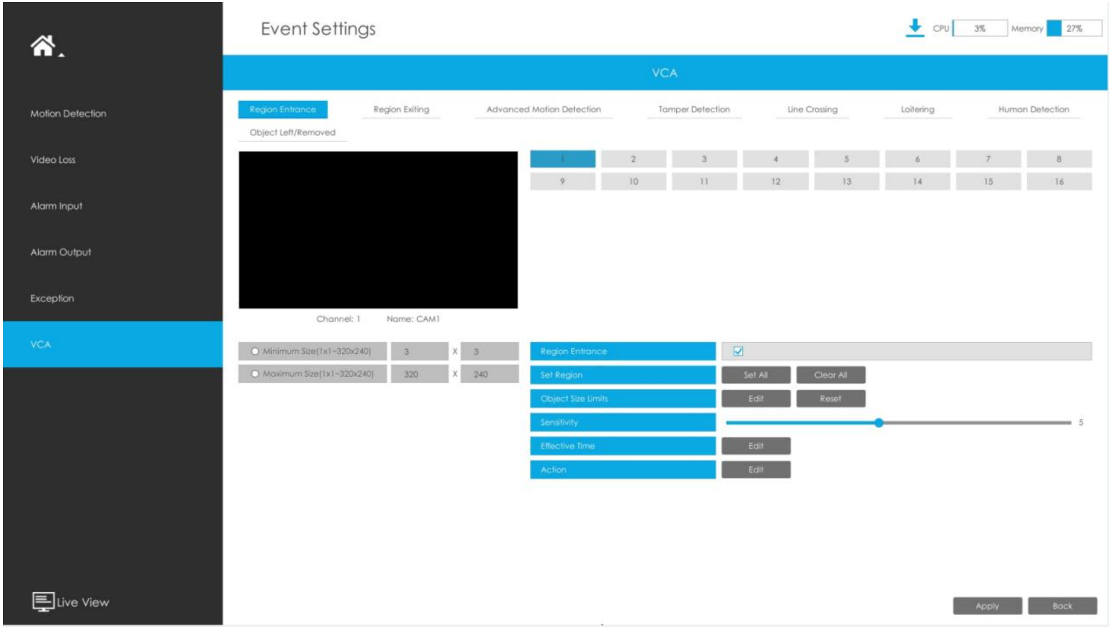
Event/Exception	Information
No Disk	
Record Failed	CH8 Primary Stream
Record Failed	CH7 Primary Stream
Record Failed	CH3 Primary Stream
Record Failed	CH2 Primary Stream
Record Failed	CH1 Primary Stream

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.



Channel: 1 Name: CAM1

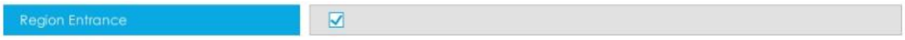
○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

Region Entrance ☑

Sensitivity 5

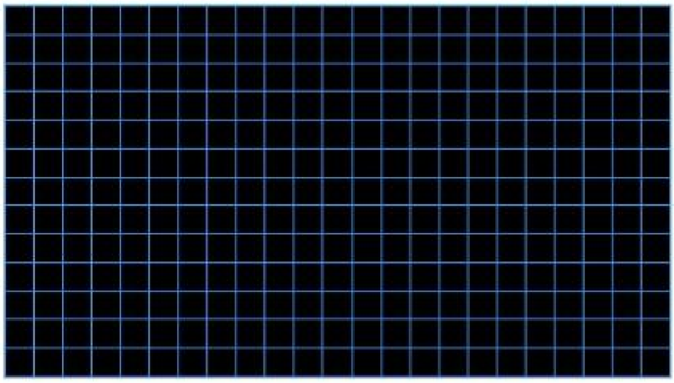
Step 1. Select channel and enable Region Entrance.



Region Entrance ☑

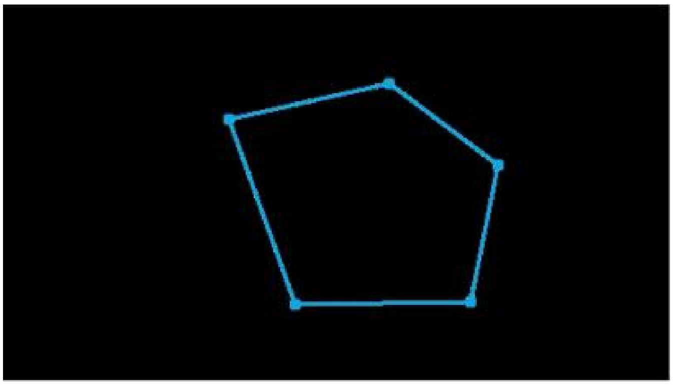
Step 2. Set entrance detection region.

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 set or clear all set region by directly clicking Set All or Clear All .



Channel: 4 Name: CAM4

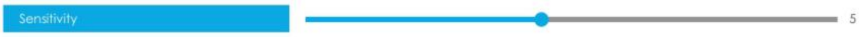
For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



Channel: 2 Name: CAM2

Step 3. Set Sensitivity.

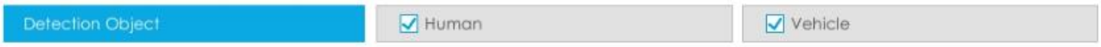
The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.



Sensitivity 5

Step 4. Select the Detection Object.

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



Detection Object ☑ Human ☑ Vehicle

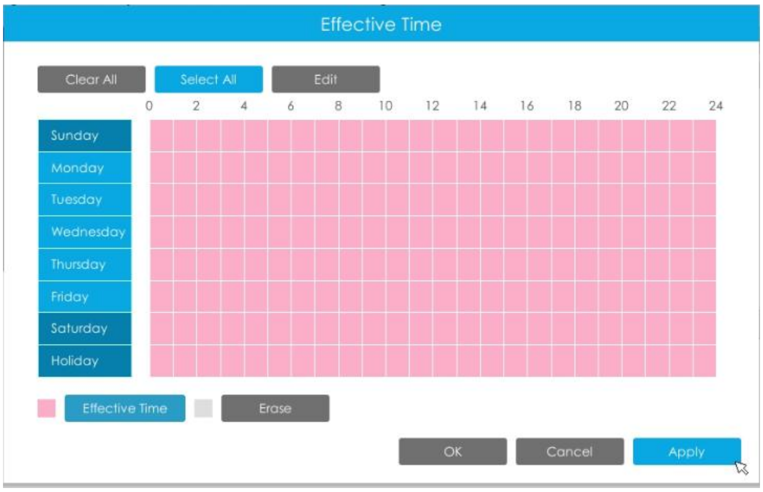
Note：

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

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

Step 5. Set Effective Time of region entrance by clicking 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 6. Set Action for region entrance alarm by clicking Edit**.**

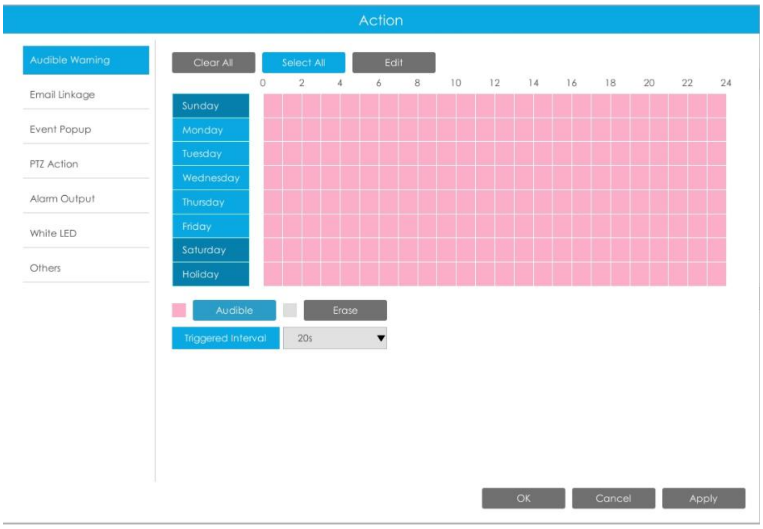
Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

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



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

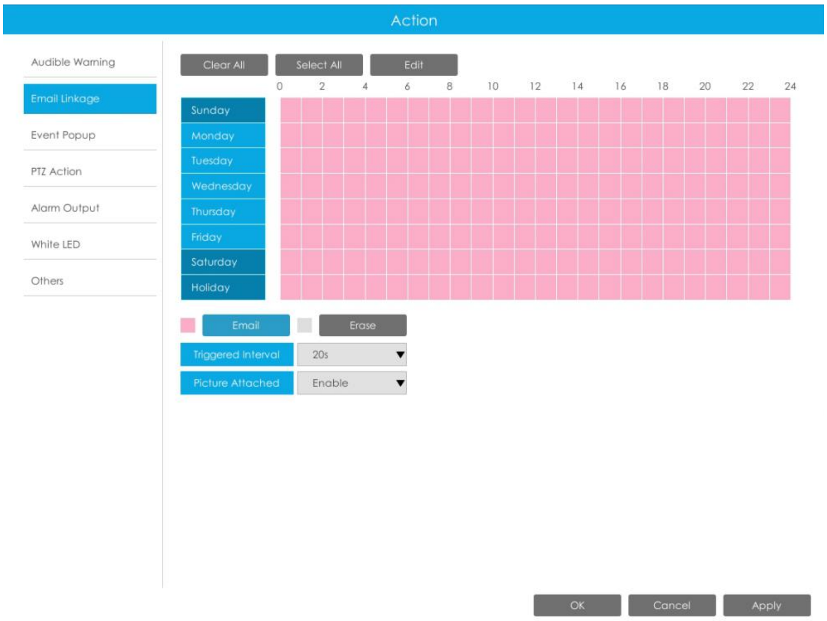
The user can set effective schedule as following two ways:

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

② Click 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.



Triggered Interval: 20s

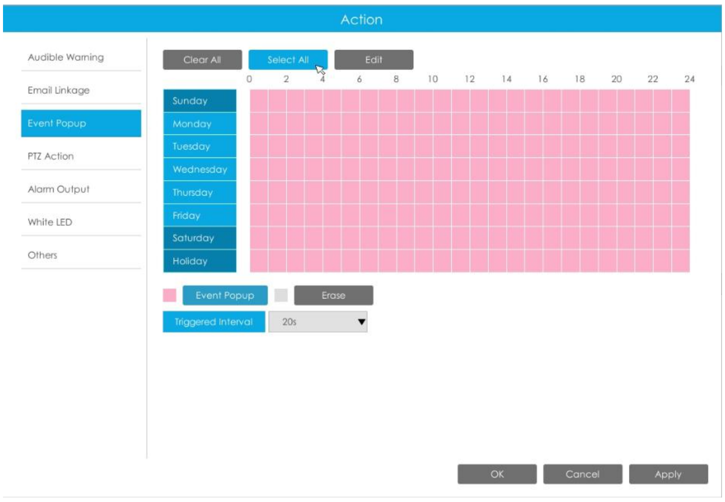
Picture Attached: Enable

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.



Triggered Interval: 20s

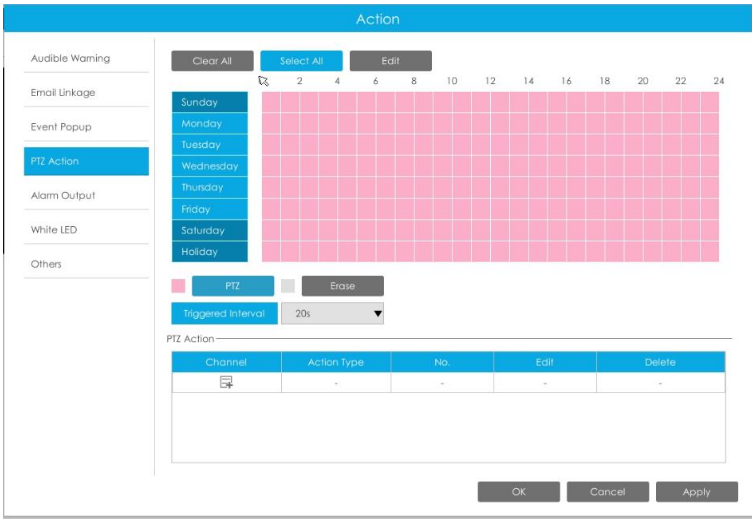
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

User can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

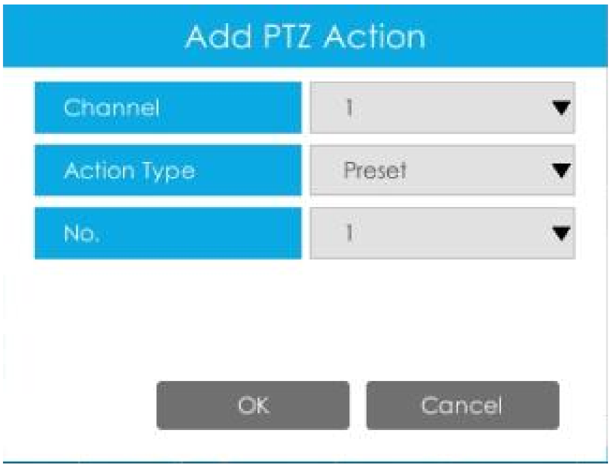
Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval: 20s

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

And you can add PTZ Action by clicking ⊞ .



Channel: 1

Action Type: Preset

No.: 1

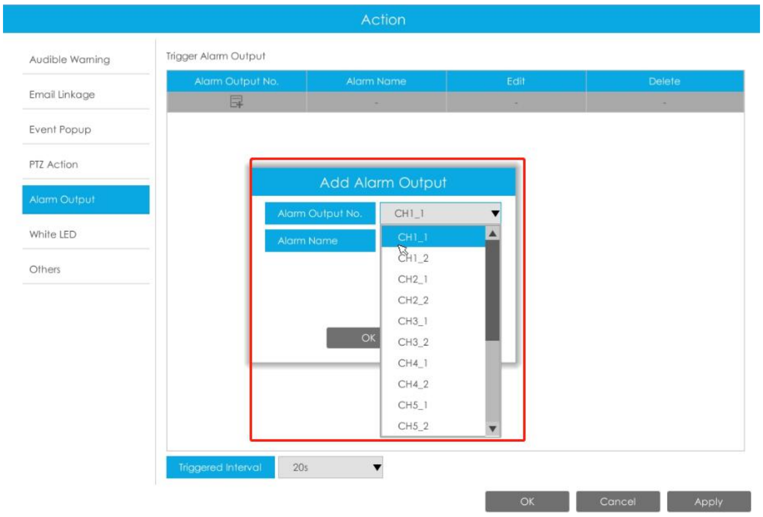
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



Alarm Output No.	Alarm Name	Edit	Delete
	-	-	-

Alarm Output No.: CH1_1

Alarm Name:

Triggered Interval: 20s

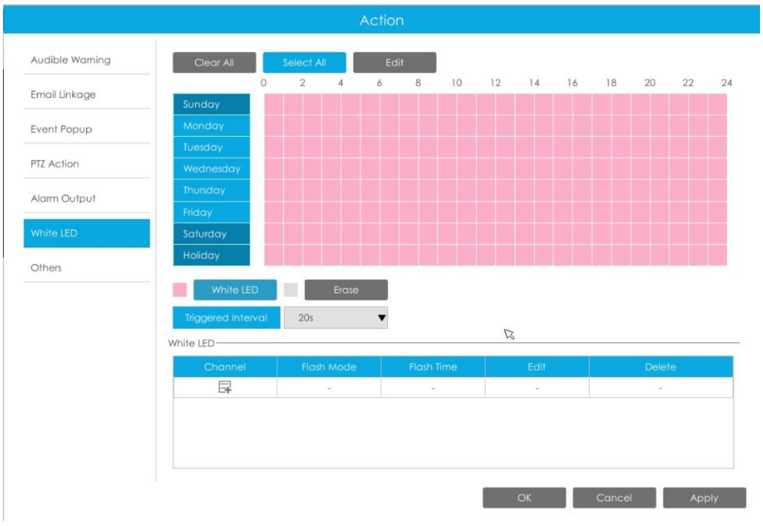
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

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

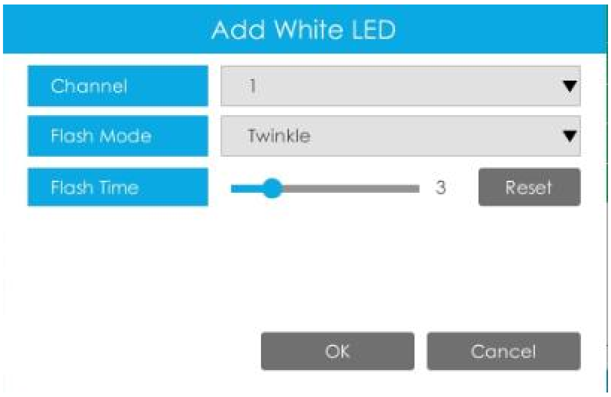
② Click Edit to edit effective time manually.

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



Triggered Interval 20s

And you can add White LED by clicking .



Channel 1

Flash Mode Twinkle

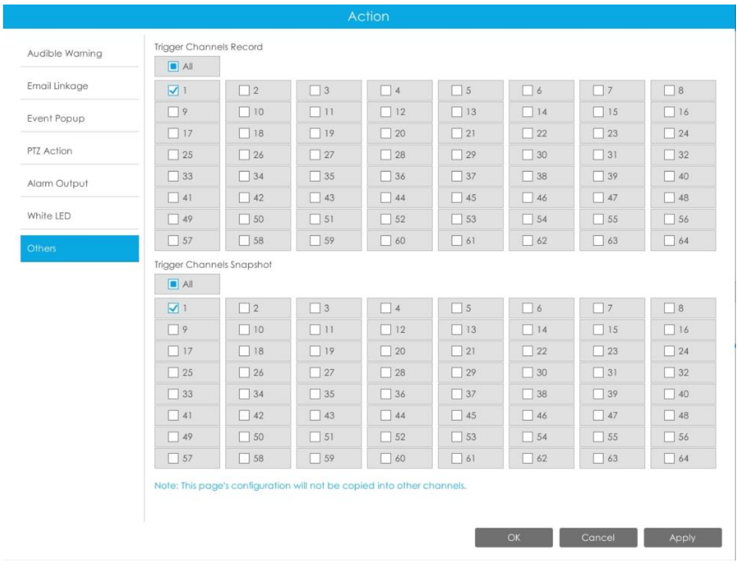
Flash Time 3

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.



Trigger Channels Record: ☑ 1; ☐ 2–64

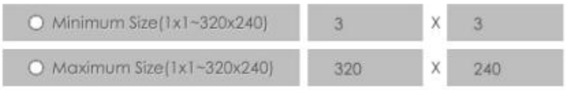
Trigger Channels Snapshot: ☑ 1; ☐ 2–64

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

Note:

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

Step 7. Set Minimum Size and Maximum Size.



○ Minimum Size(1x1~320x240) 3 x 3

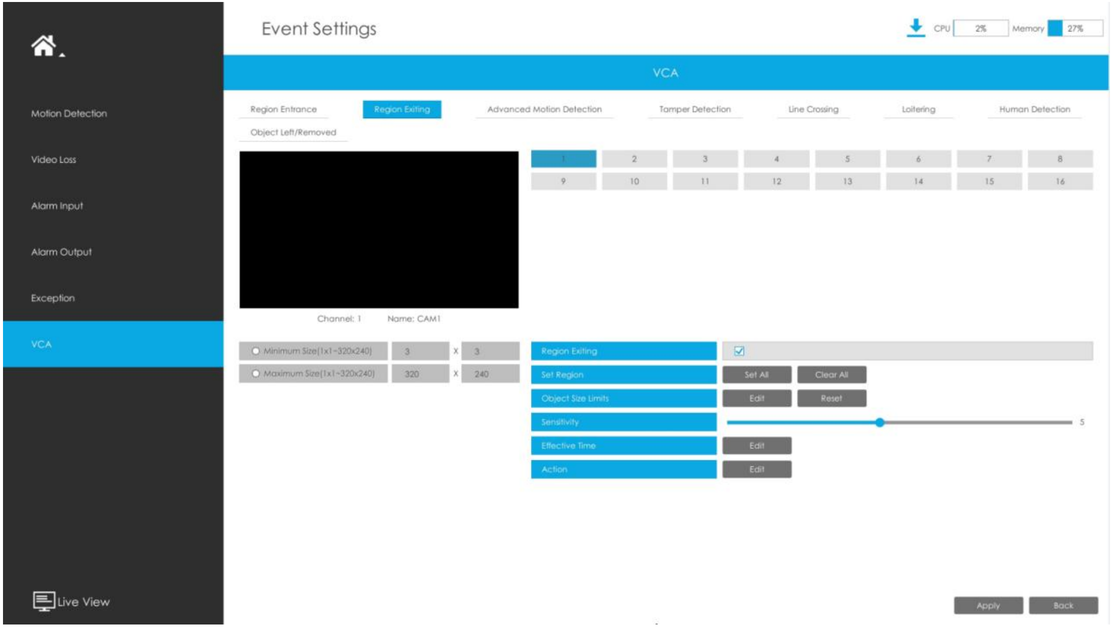
○ Maximum Size(1x1~320x240) 320 x 240

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

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

Region Exiting

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

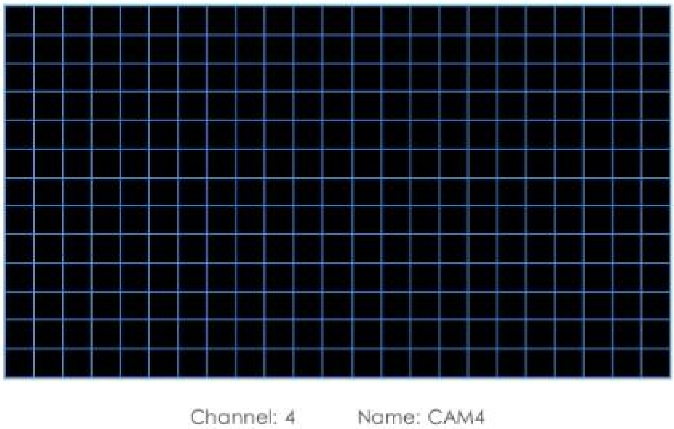


Step 1. Select channel and enable Region Exiting.

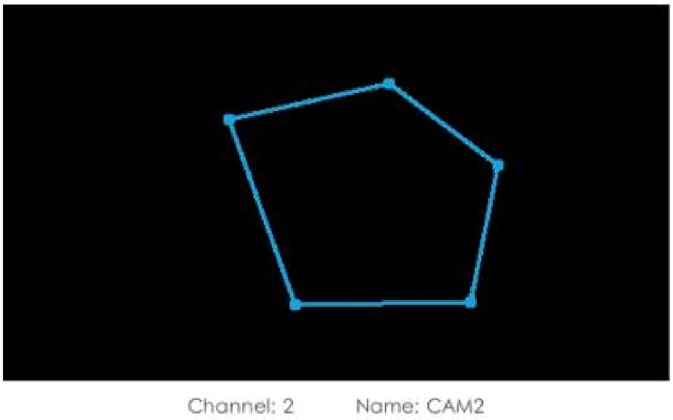
Region Exiting ☑

Step 2. Set exit detection region.

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

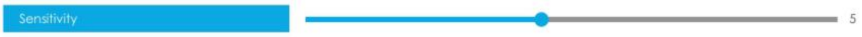


For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



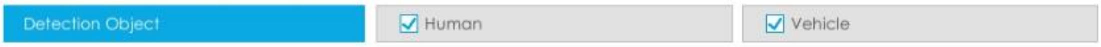
Step 3. Set Sensitivity.

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 5

Step 4. Select the Detection Object.

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


Detection Object ☑ Human ☑ Vehicle

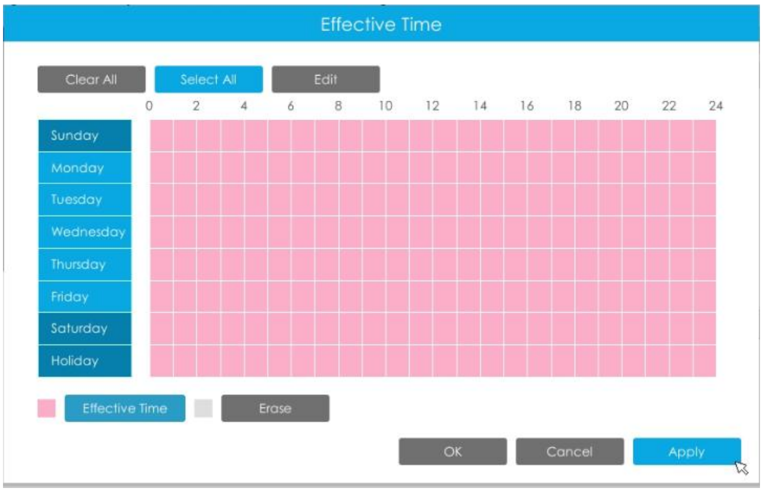
Note：

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

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

Step 5. Set Effective Time of region exiting 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 6. Set Action for region exiting alarm by clicking Edit**.**

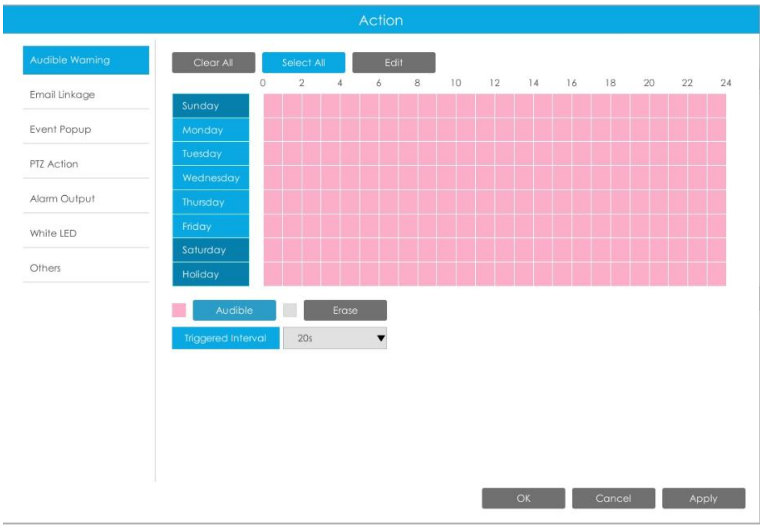
Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

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



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

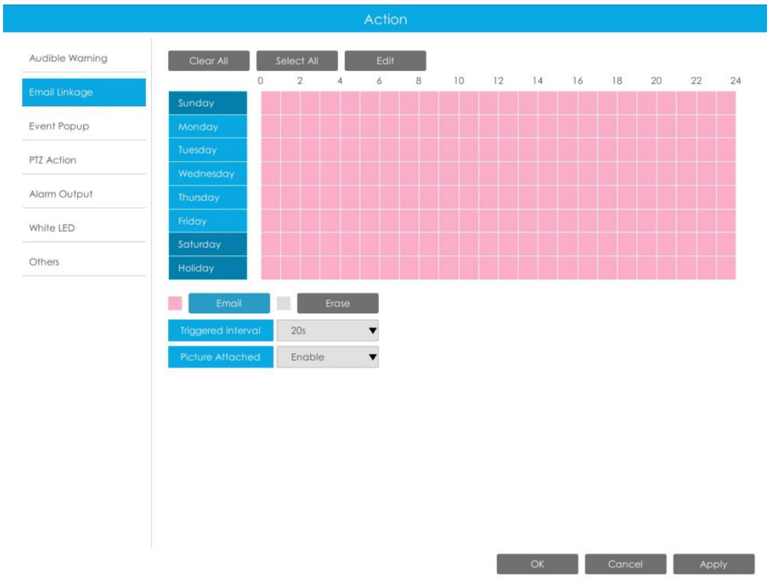
The user can set effective schedule as following two ways:

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

② Click 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.



Triggered Interval: 20s

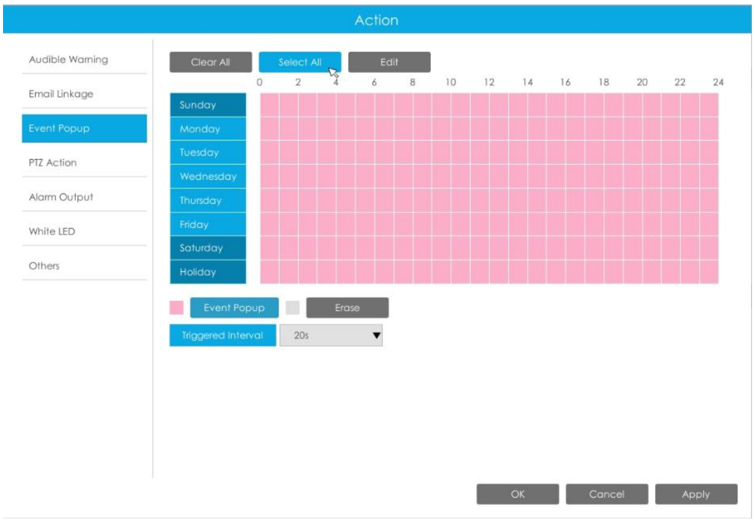
Picture Attached: Enable

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.



Triggered Interval: 20s

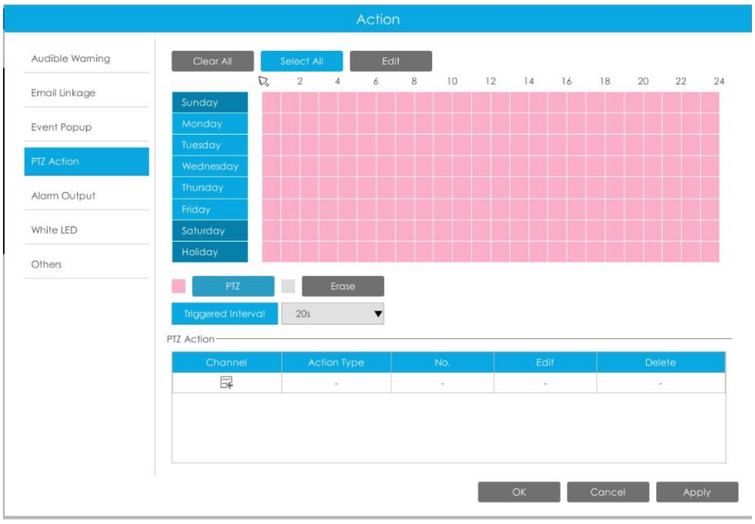
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

User can set effective schedule as following two ways:

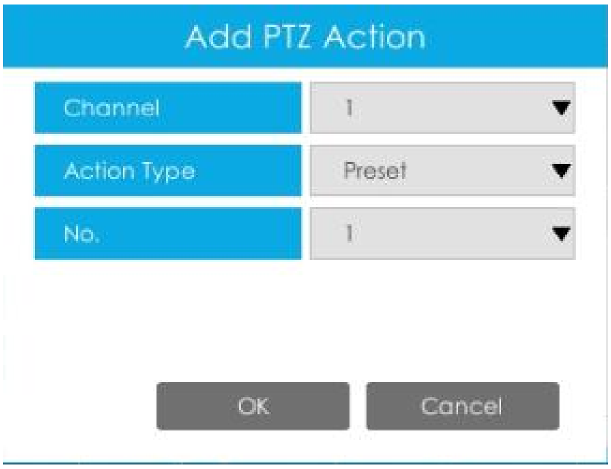
① Select the operation type: PTZ or Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear to set or clear all time settings.

② Click 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 .



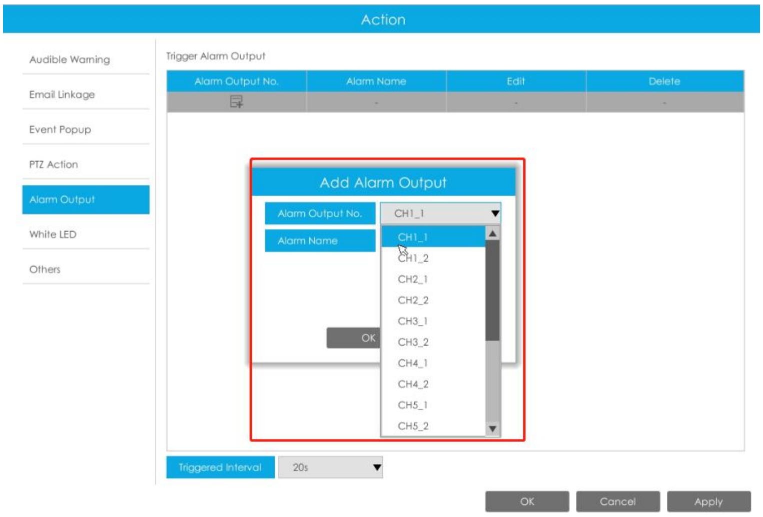
Channel: Select the channel which supports this function.

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.



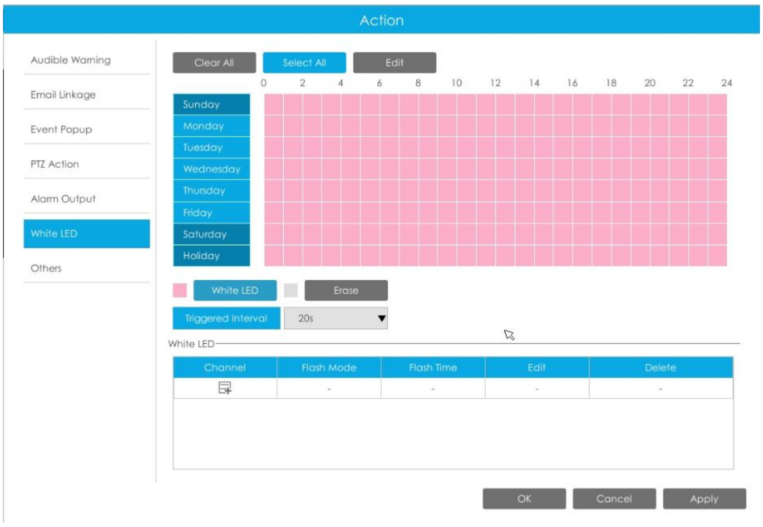
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

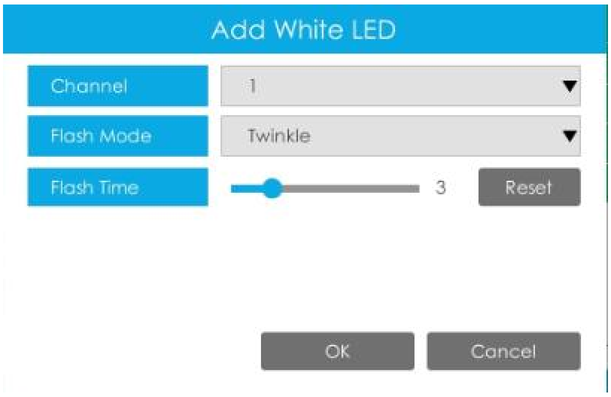
① Select the operation type, White LED and Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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: 1

Flash Mode: Twinkle

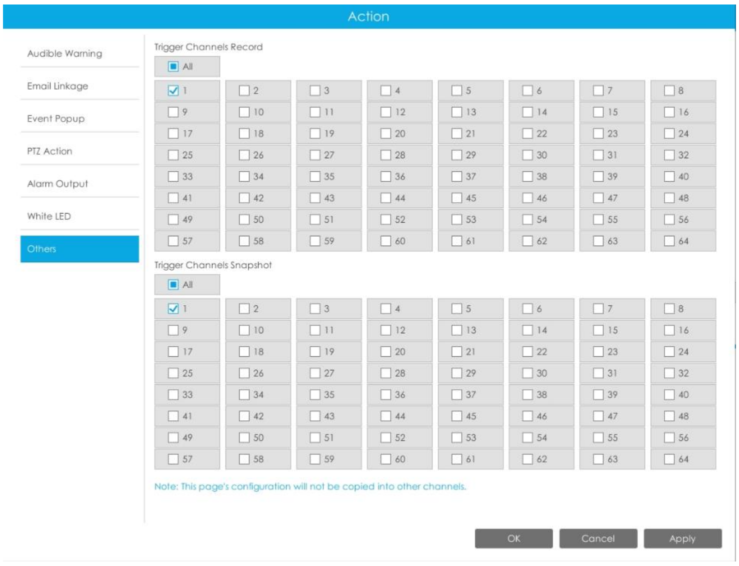
Flash Time: 3

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.



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

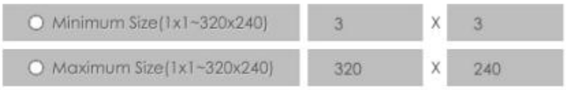
☑ 1	☐ 2	☐ 3	☐ 4	☐ 5	☐ 6	☐ 7	☐ 8
☐ 9	☐ 10	☐ 11	☐ 12	☐ 13	☐ 14	☐ 15	☐ 16
☐ 17	☐ 18	☐ 19	☐ 20	☐ 21	☐ 22	☐ 23	☐ 24
☐ 25	☐ 26	☐ 27	☐ 28	☐ 29	☐ 30	☐ 31	☐ 32
☐ 33	☐ 34	☐ 35	☐ 36	☐ 37	☐ 38	☐ 39	☐ 40
☐ 41	☐ 42	☐ 43	☐ 44	☐ 45	☐ 46	☐ 47	☐ 48
☐ 49	☐ 50	☐ 51	☐ 52	☐ 53	☐ 54	☐ 55	☐ 56
☐ 57	☐ 58	☐ 59	☐ 60	☐ 61	☐ 62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

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

Note:

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

Step 7. Set Minimum Size and Maximum Size.



○ Minimum Size(1x1~320x240) 3 X 3

○ Maximum Size(1x1~320x240) 320 X 240

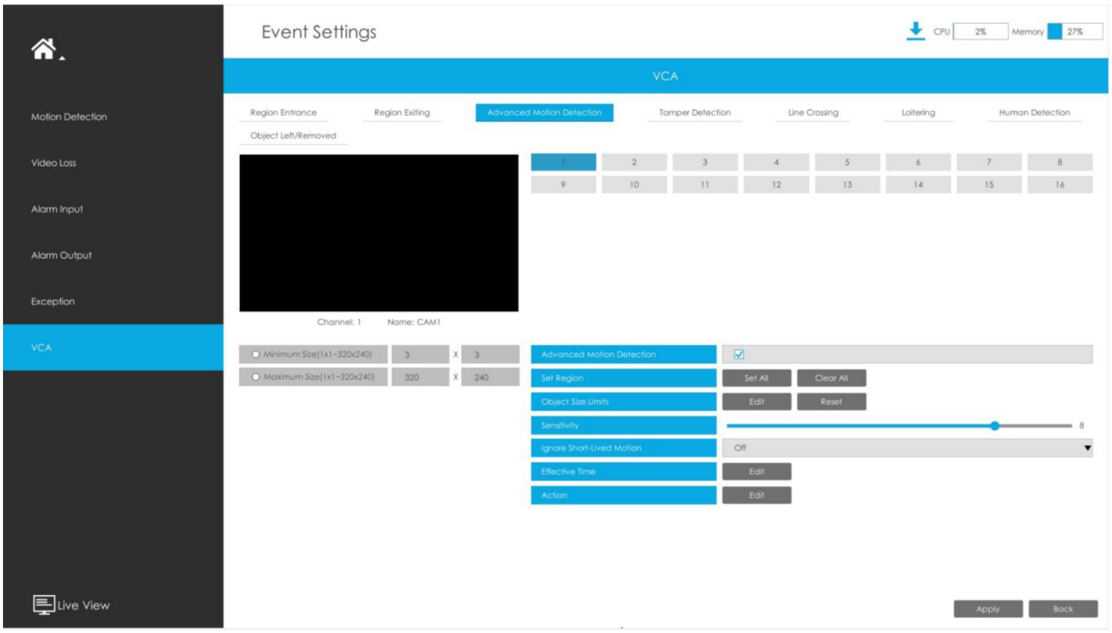
Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Region Exiting will take effect.

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

Advanced Motion Detection

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

Step 1. Select channel and enable Advanced Motion Detection.



Channel: 1 Name: CAM1

○ Minimum Size(1x1~320x240) 3 X 3

○ Maximum Size(1x1~320x240) 320 X 240

Advanced Motion Detection ☑

Set Region: Set All / Clear All

Object Size Limits: Edit / Reset

Sensitivity: 8

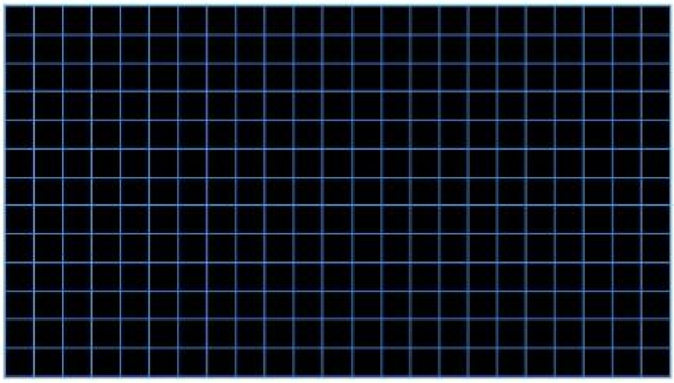
Ignore Short-Lived Motion: Off

Effective Time: Edit

Action: Edit

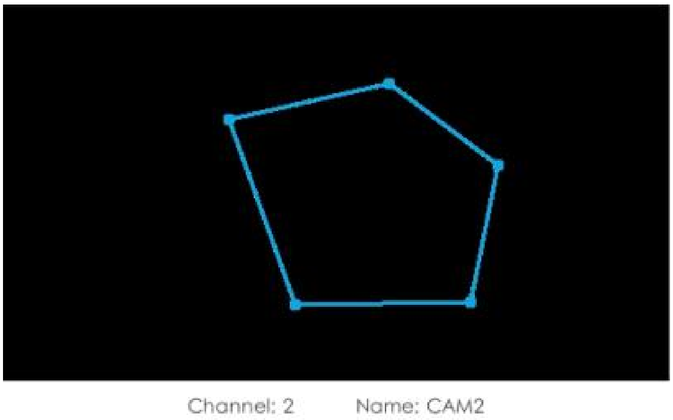
Step 2. Set advanced motion detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking Set All 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 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 4. Select the Detection Object.

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

Detection Object ☑ Human ☑ Vehicle

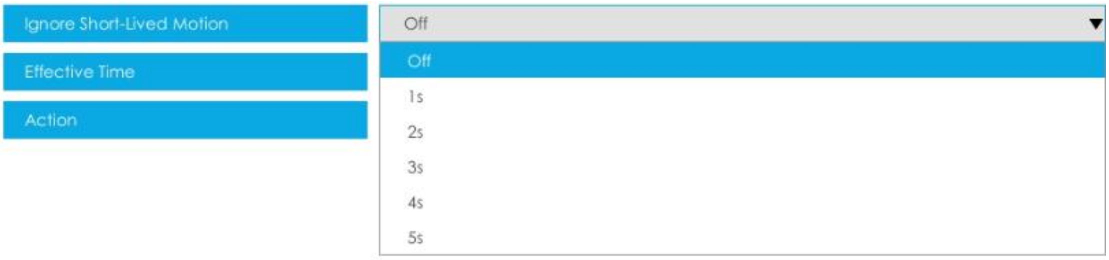
Note:

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

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

Step 5. Set 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.



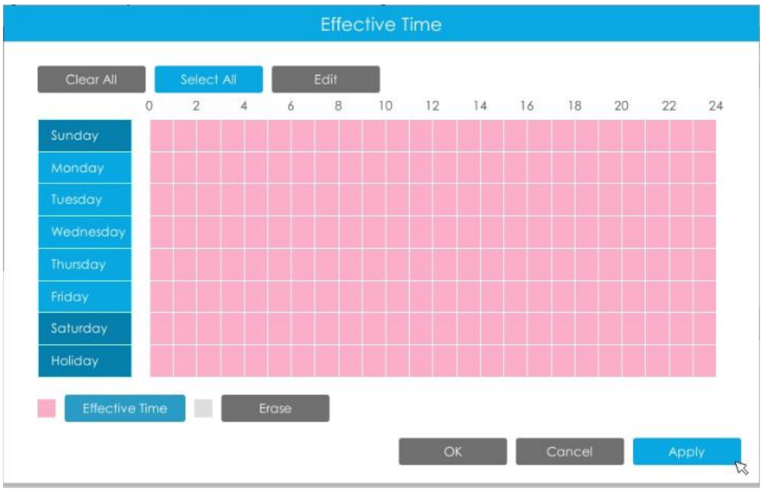
Ignore Short-Lived Motion: Off

Note:

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

Step 6. Set Effective Time of advance motion detection by clicking 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 7. Set Action for advanced motion detection alarm by clicking Edit.

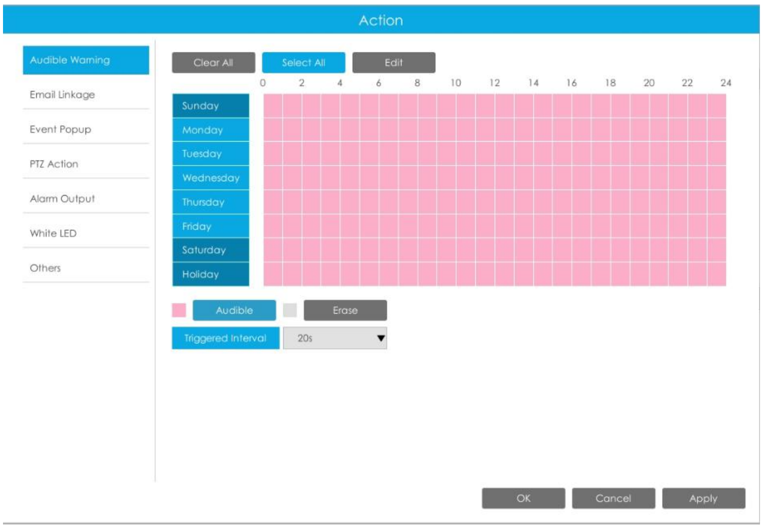
Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

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



Triggered Interval: 20s

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

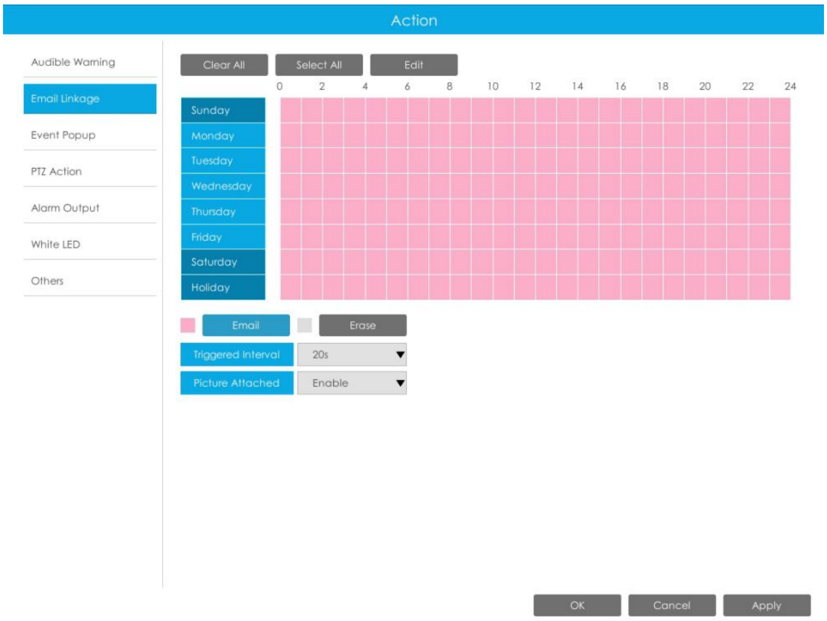
The user can set effective schedule as following two ways:

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.



Triggered Interval 20s

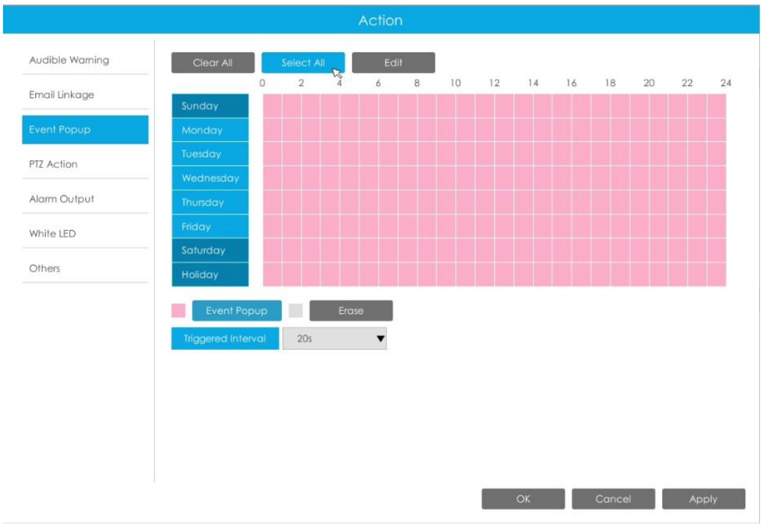
Picture Attached Enable

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.



Triggered Interval 20s

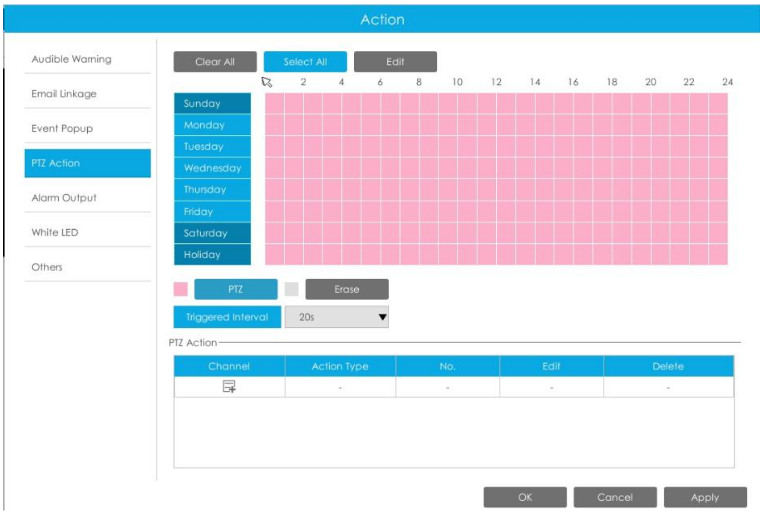
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

User can set effective schedule as following two ways:

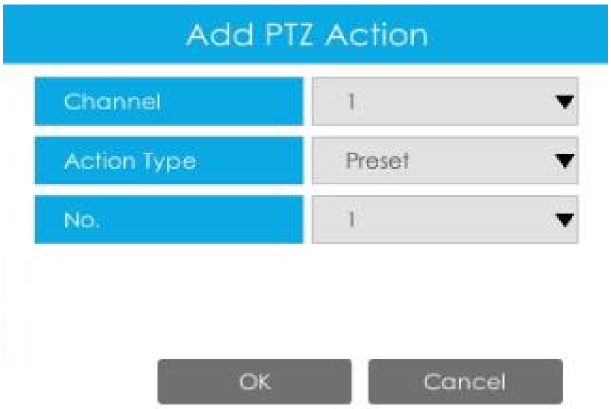
① Select the operation type: PTZ or Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear to set or clear all time settings.

② Click 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 .



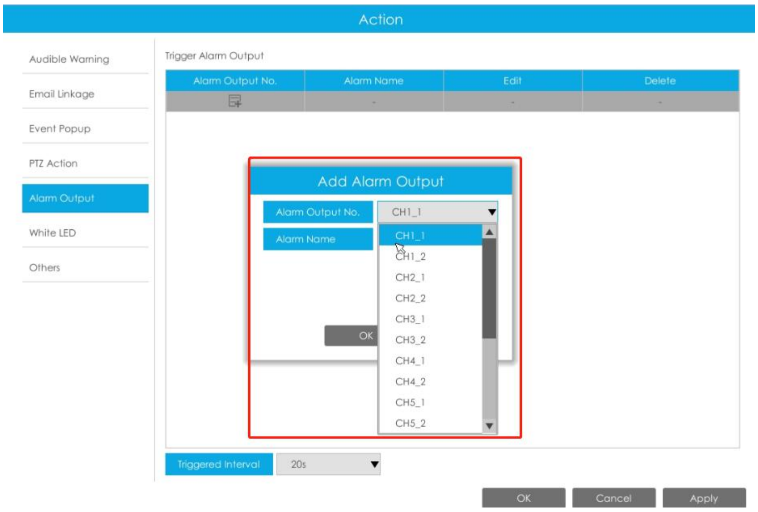
Channel: Select the channel which supports this function.

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.



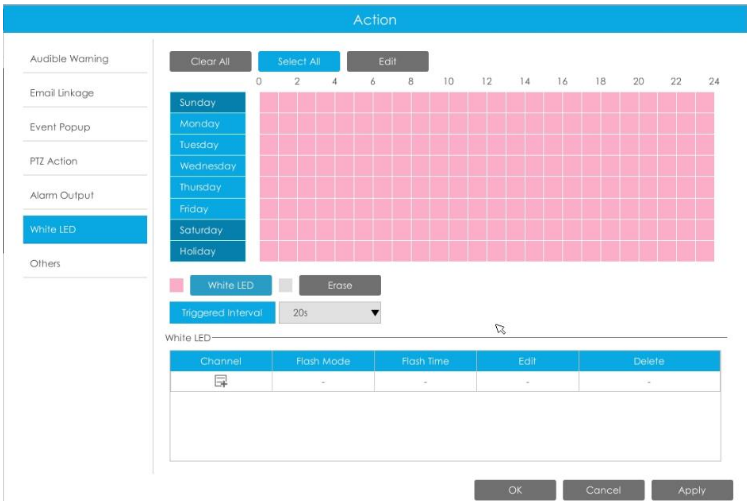
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

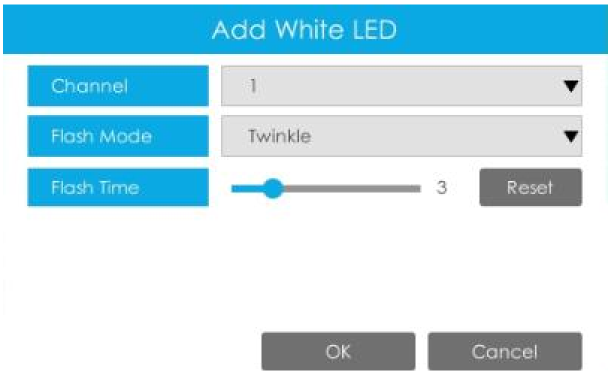
① Select the operation type, White LED and Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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 ☐.

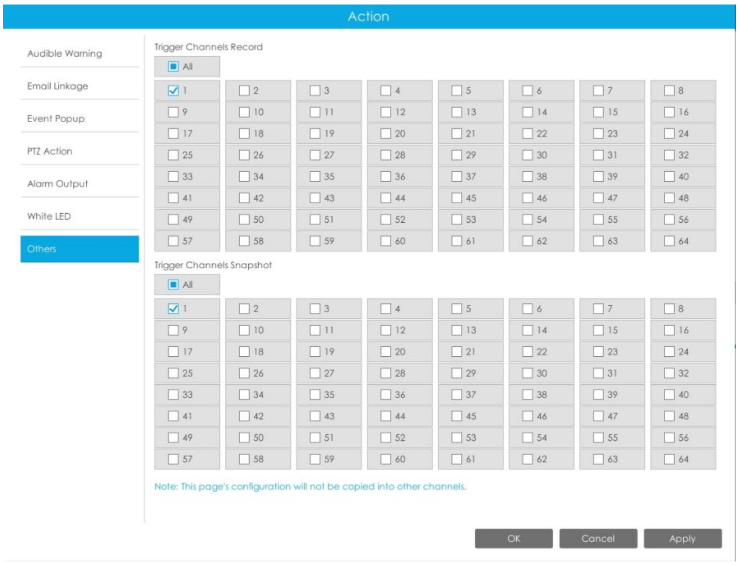


Channel: Select the channel which supports this function.

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.



Trigger Channels Record: ☑ 1

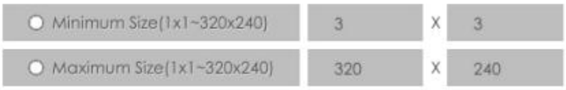
Trigger Channels Snapshot: ☑ 1

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

Note：

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

Step 8. Set Minimum Size and Maximum Size.



○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

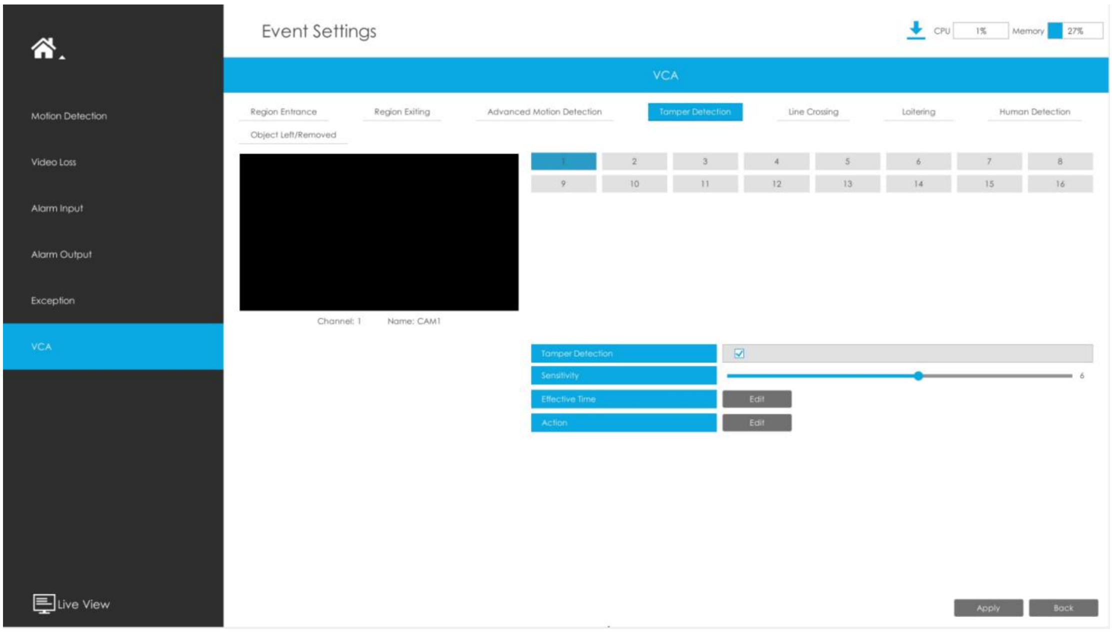
Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Advanced Motion Detection will take effect.

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

Tamper Detection

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

Step 1. Select channel and enable Tamper Detection.



Channel: 1 Name: CAM1

Tamper Detection ☑
Sensitivity 6
Effective Time Edit
Action Edit

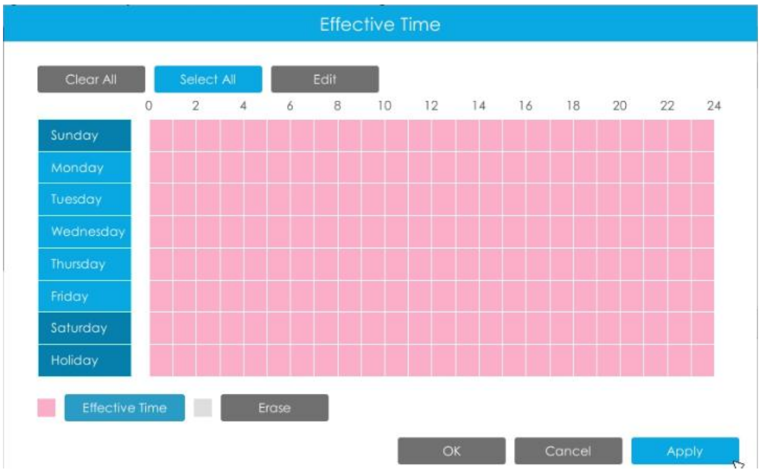
Step 2. Set Sensitivity.

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.

Sensitivity 6

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.

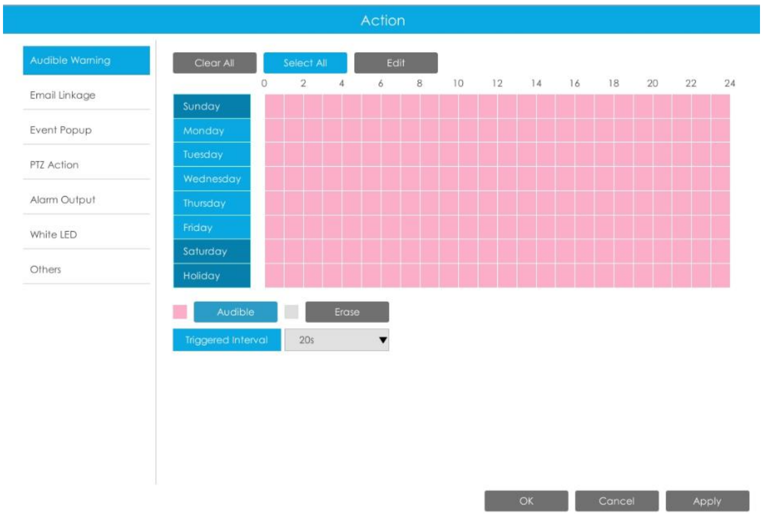
Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

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



Triggered Interval 20s

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

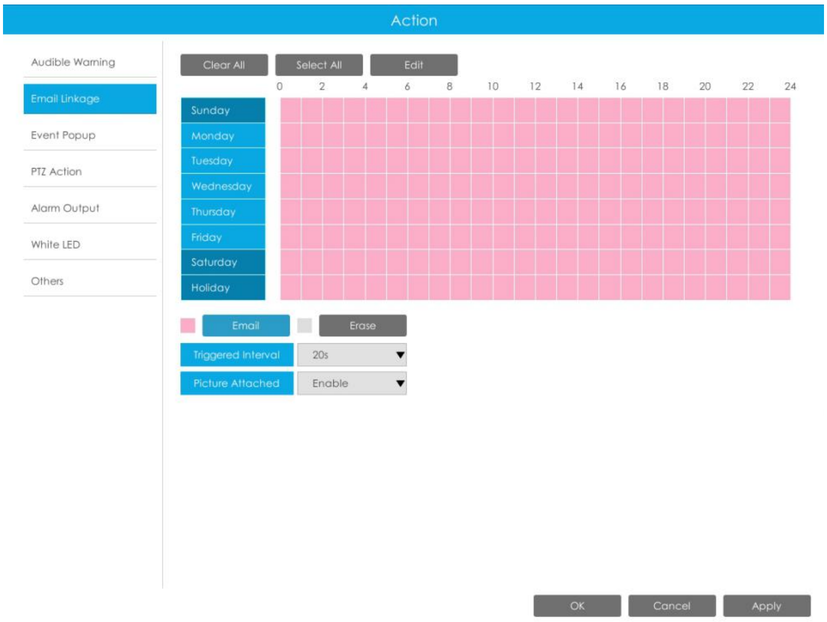
The user can set effective schedule as following two ways:

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.



Triggered Interval 20s

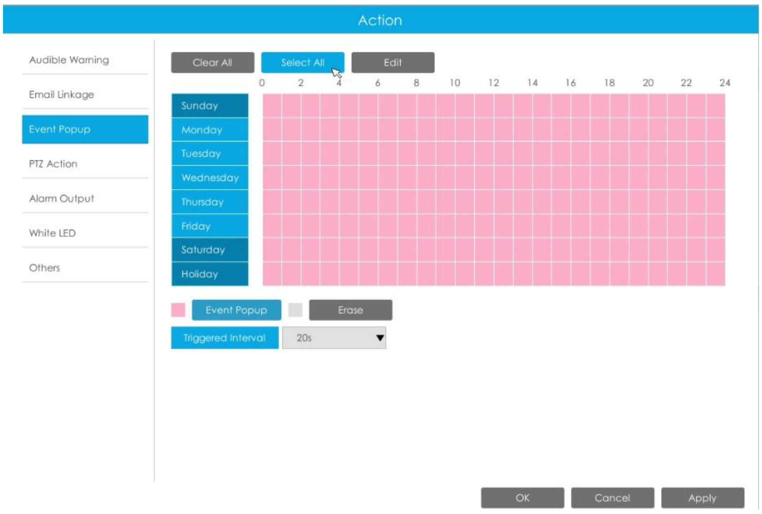
Picture Attached Enable

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.



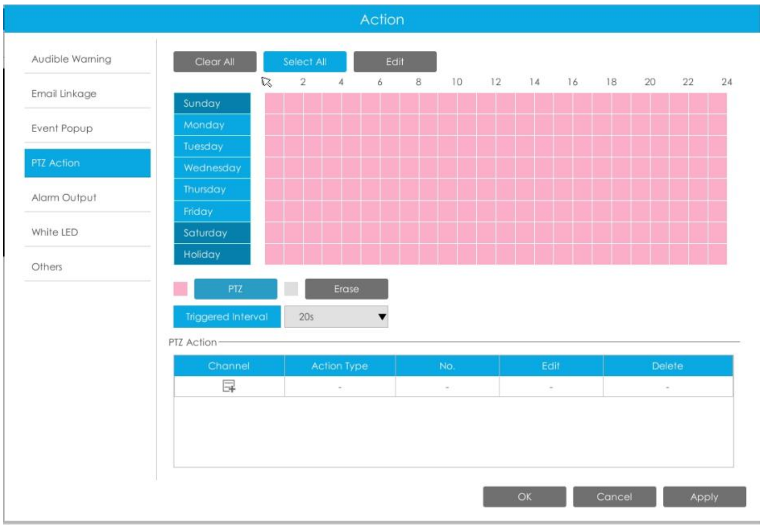
Triggered Interval 20s

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

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

② Click Edit to edit record effective time manually.

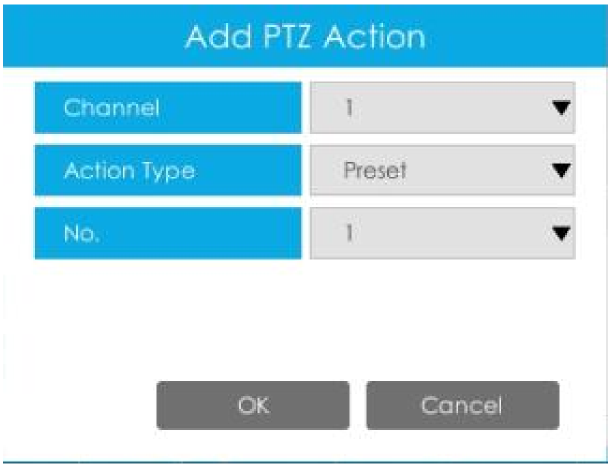
Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval: 20s

Channel	Action Type	No.	Edit	Delete
	-	-	-	-

And you can add PTZ Action by clicking .



Channel: 1

Action Type: Preset

No.: 1

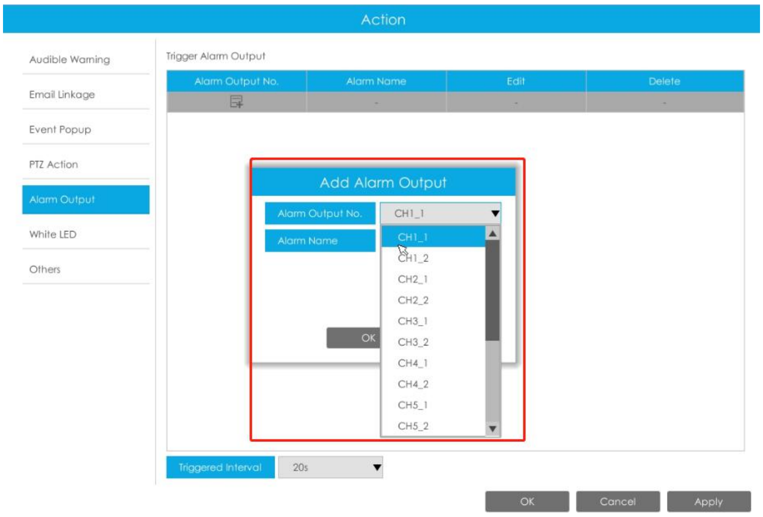
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



Triggered Interval 20s

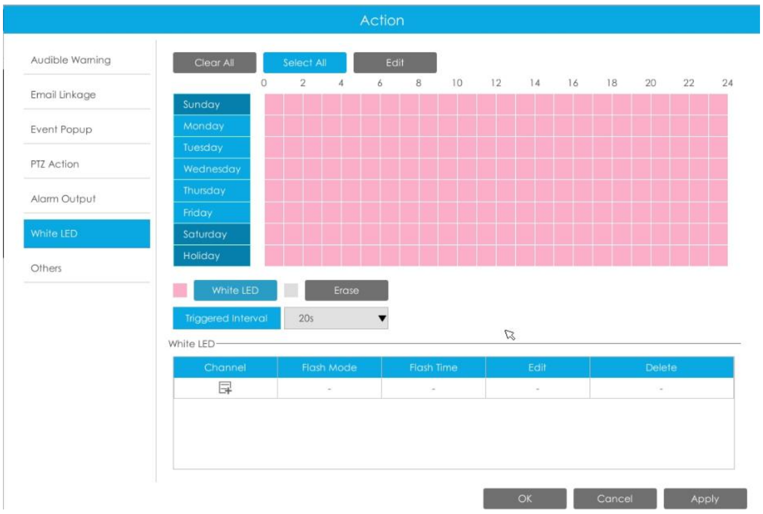
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

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

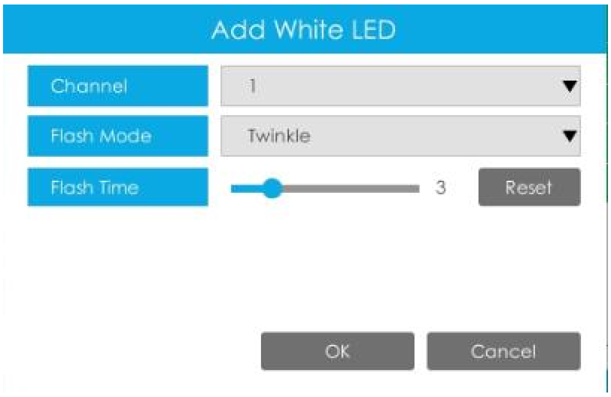
② Click Edit to edit effective time manually.

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



Triggered Interval 20s

And you can add White LED by clicking .



Channel: 1

Flash Mode: Twinkle

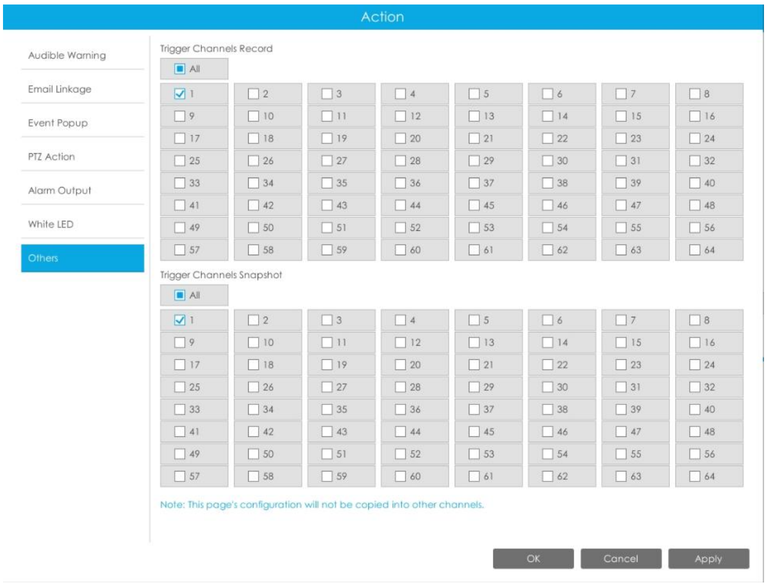
Flash Time: 3

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.



Trigger Channels Record

■ All

☑ 1	☐ 2	☐ 3	☐ 4	☐ 5	☐ 6	☐ 7	☐ 8
☐ 9	☐ 10	☐ 11	☐ 12	☐ 13	☐ 14	☐ 15	☐ 16
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☐ 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
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☐ 33	☐ 34	☐ 35	☐ 36	☐ 37	☐ 38	☐ 39	☐ 40
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☐ 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.

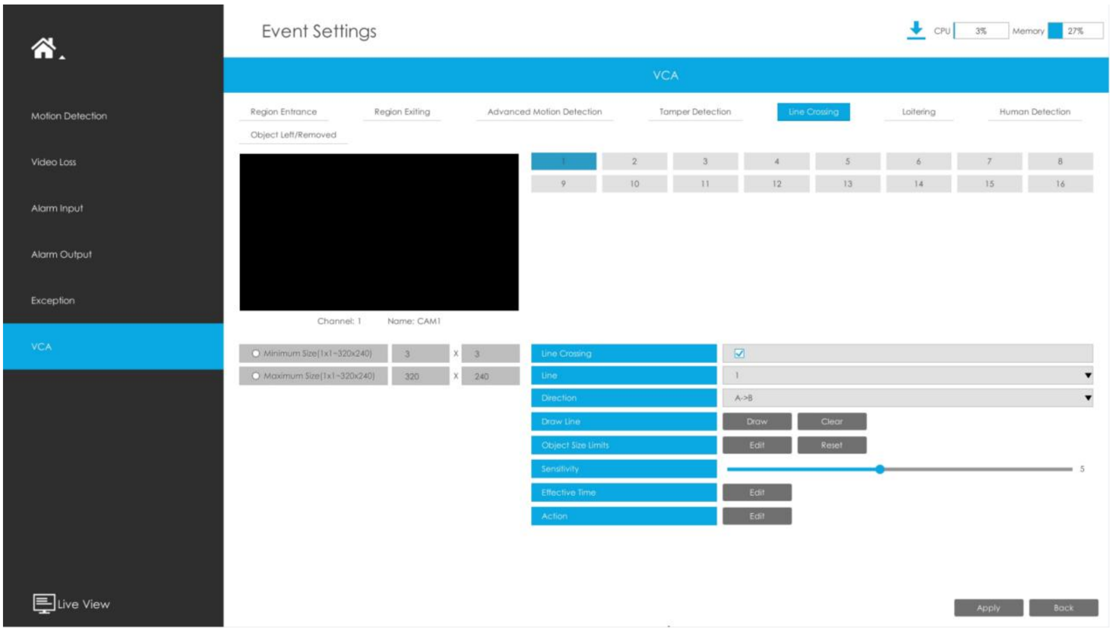
Note:

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

Line Crossing

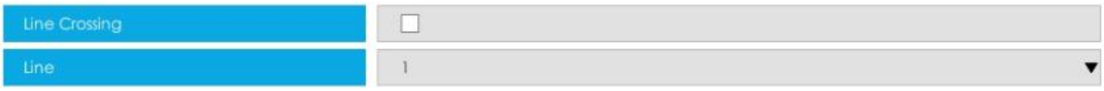
Line Crossing detection is designed to work in most indoor and outdoor environment. An event will be triggered every time when the camera detects objects crossing a defined virtual line.

Settings steps are shown as follows:



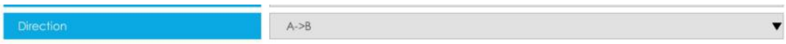
Step1. Select channel and enable Line Crossing.

Step 2. Choose detection line number.

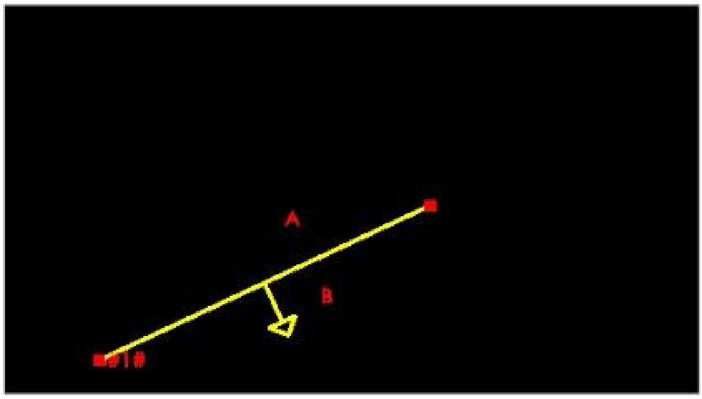


Step 3. Define its direction.

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.



Step 4. Draw detection lines.



Channel: 4 Name: CAM4

Note:

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

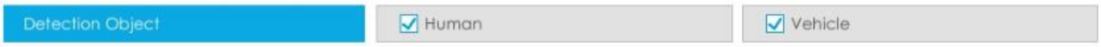
Step 5. Set Sensitivity.

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

Sensitivity 6

Step 6. Select the Detection Object.

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



Detection Object ☑ Human ☑ Vehicle

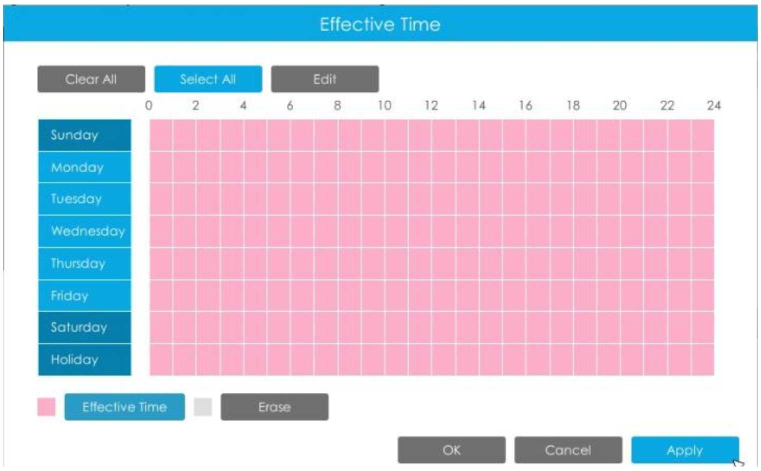
Note:

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

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

Step 7. Set Effective Time of line crossing by clicking 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 line crossing alarm by clicking Edit.

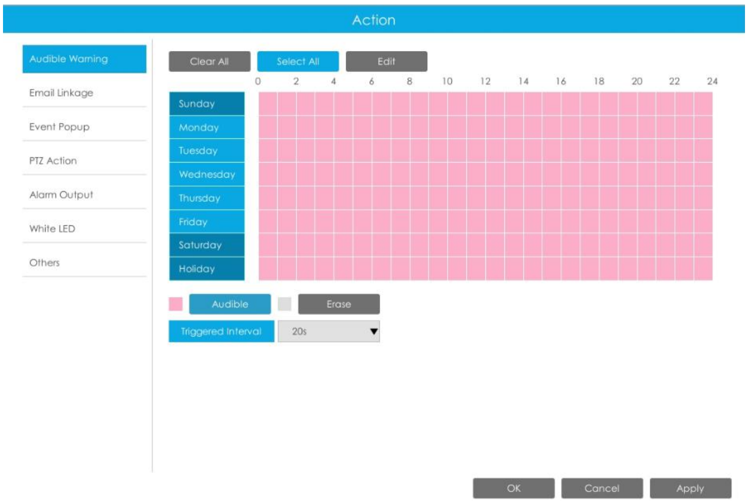
Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

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



Triggered Interval: 20s

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

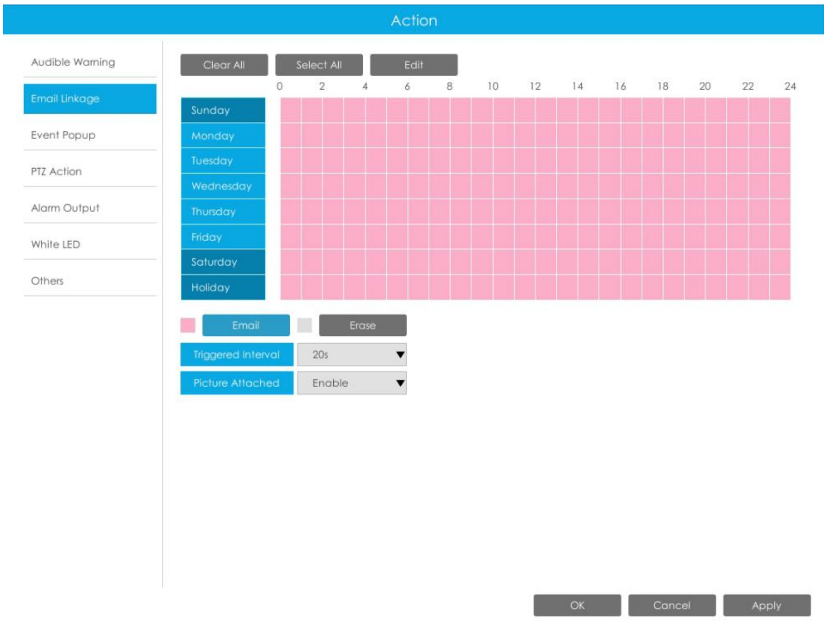
The user can set effective schedule as following two ways:

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.



Triggered Interval: 20s

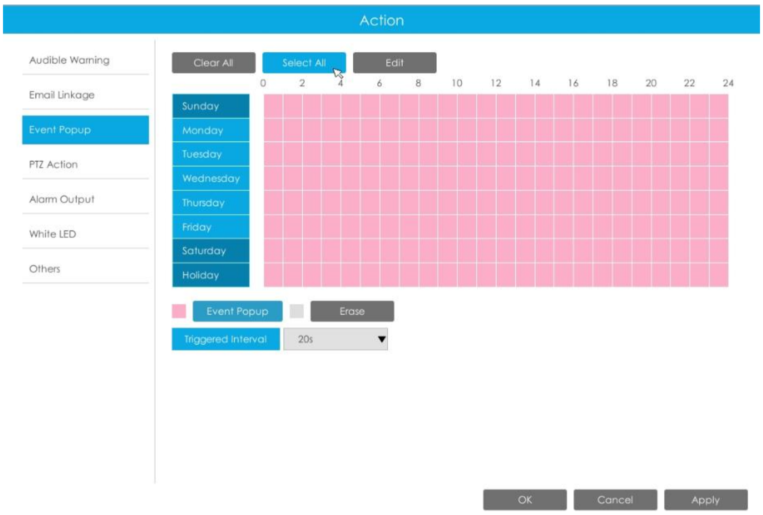
Picture Attached: Enable

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.



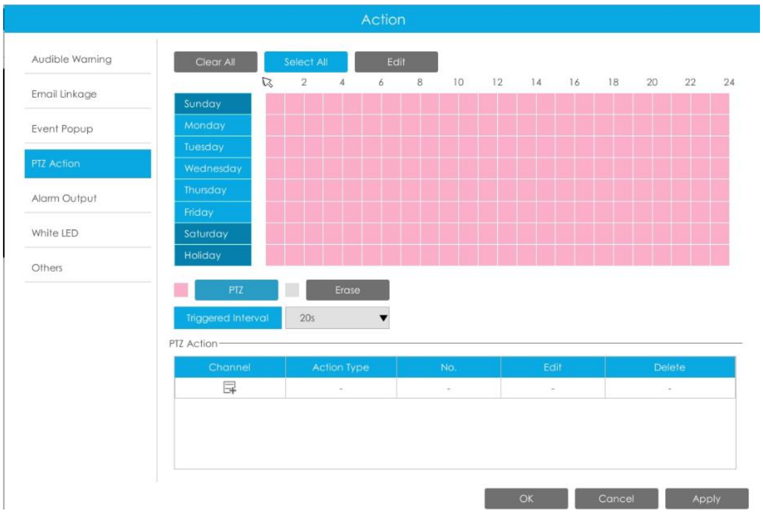
Triggered Interval: 20s

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

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

② Click Edit to edit record effective time manually.

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

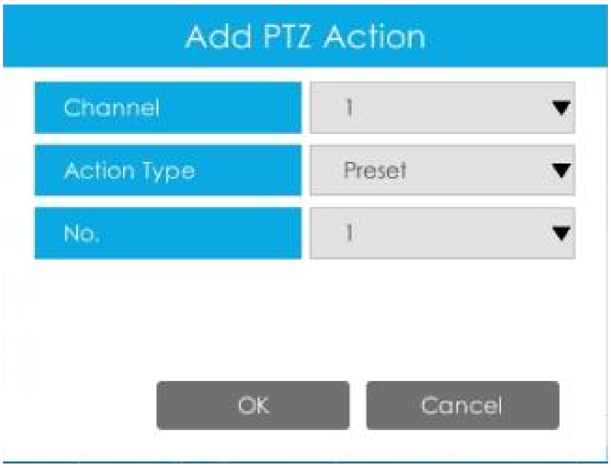


Triggered Interval: 20s

PTZ Action

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

And you can add PTZ Action by clicking ⊞ .



Channel: 1
Action Type: Preset
No.: 1

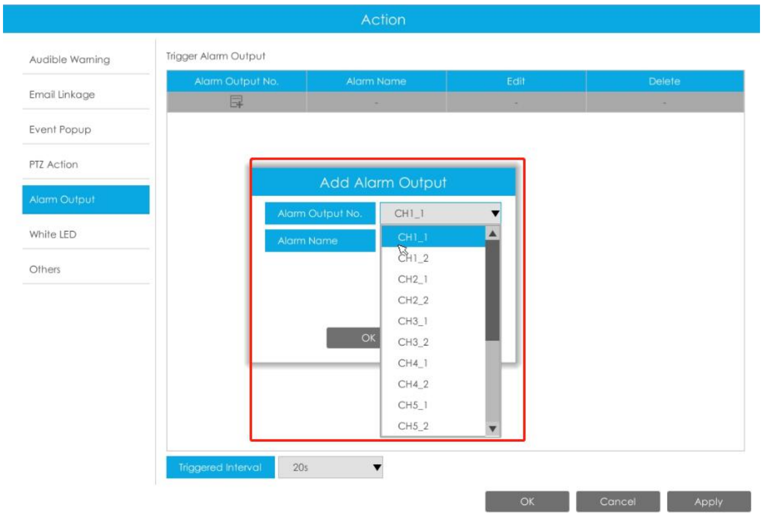
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



Alarm Output No.: CH1_1
Triggered Interval: 20s

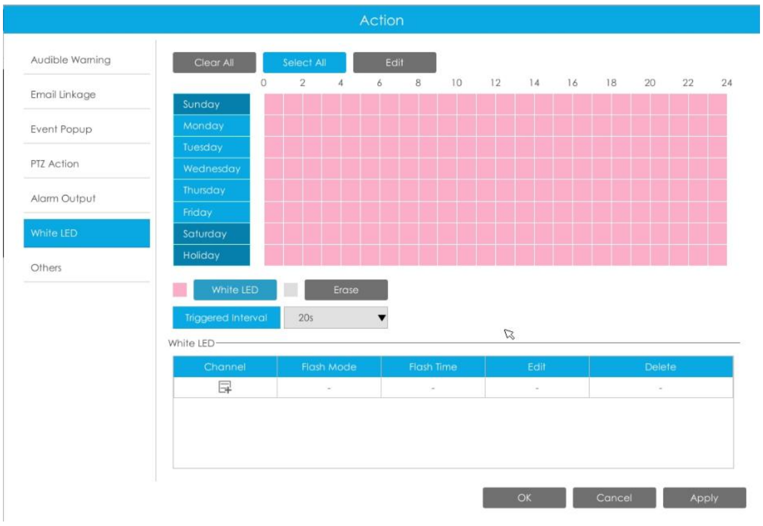
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

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

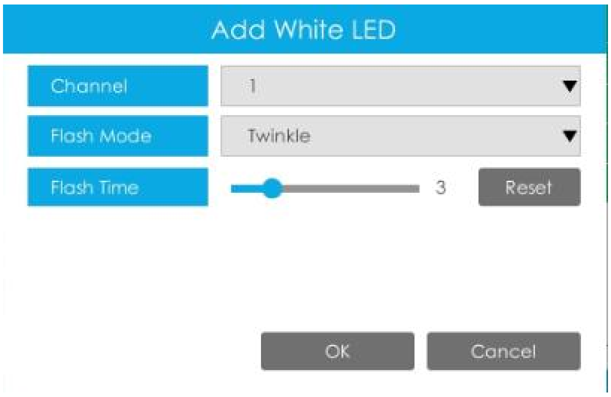
② Click Edit to edit effective time manually.

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



Triggered Interval: 20s

And you can add White LED by clicking ⊞.



Channel: 1

Flash Mode: Twinkle

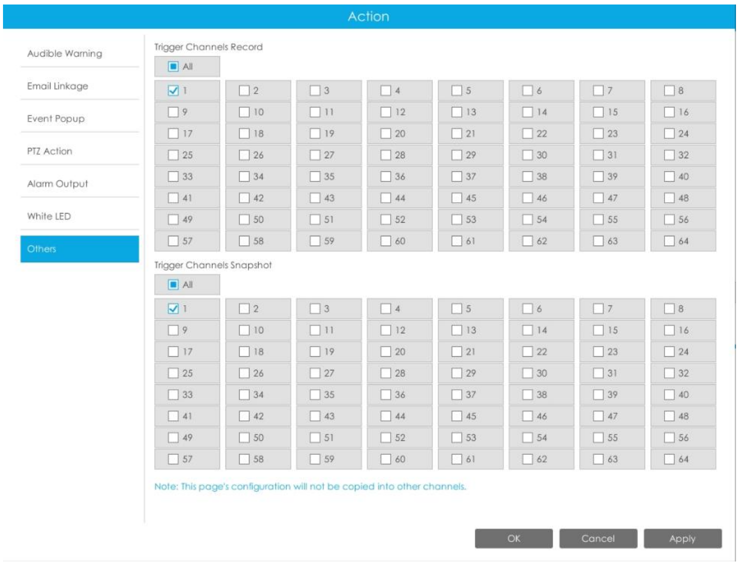
Flash Time: 3

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.



Trigger Channels Record: ☑ 1; ☐ 2–64

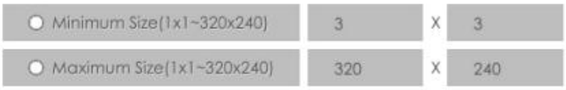
Trigger Channels Snapshot: ☑ 1; ☐ 2–64

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

Note：

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

Step 9. Set Minimum Size and Maximum Size.



○ Minimum Size(1x1~320x240) 3 x 3

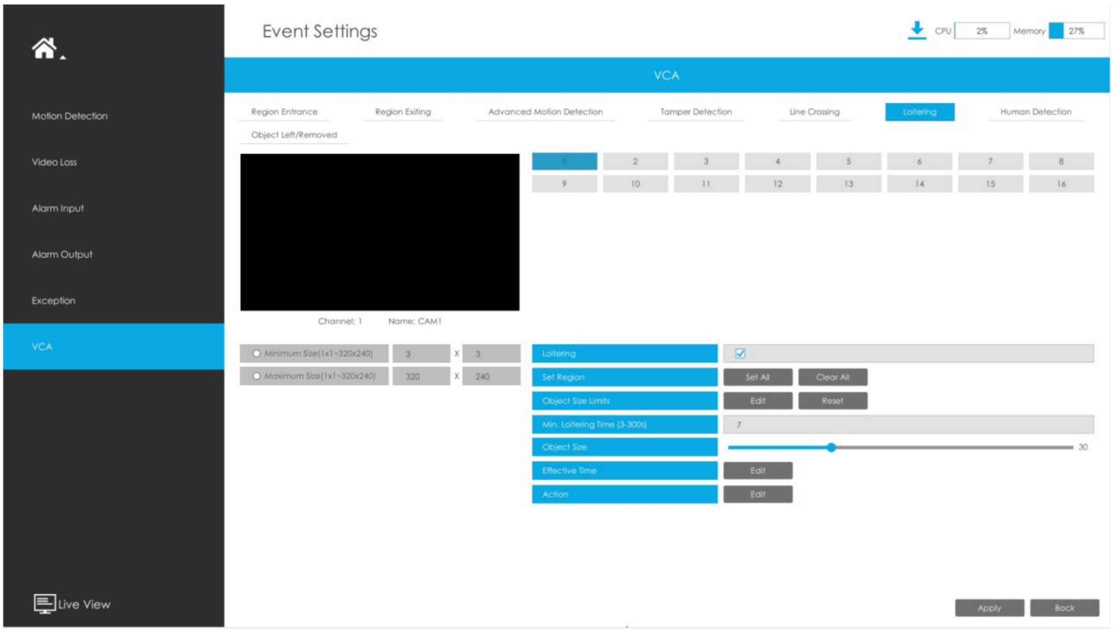
○ Maximum Size(1x1~320x240) 320 x 240

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

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

Loitering

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



Channel: 1 Name: CAM1

○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

Loitering ☑

Set Region

Object Size Limits

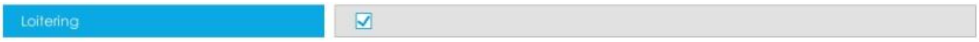
Min. Loitering Time (3-300s) 7

Object Size 30

Effective Time

Action

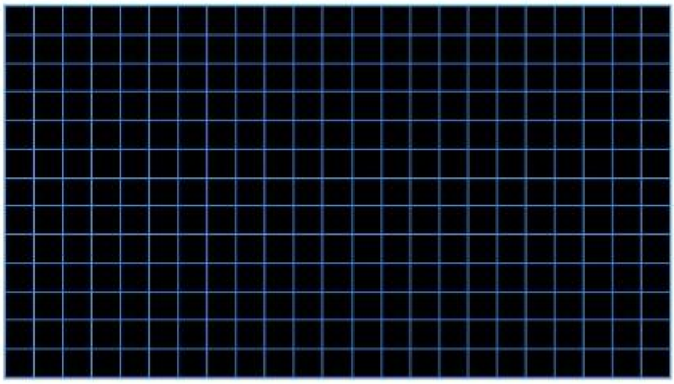
Step 1. Select channel and enable Loitering.



Loitering ☑

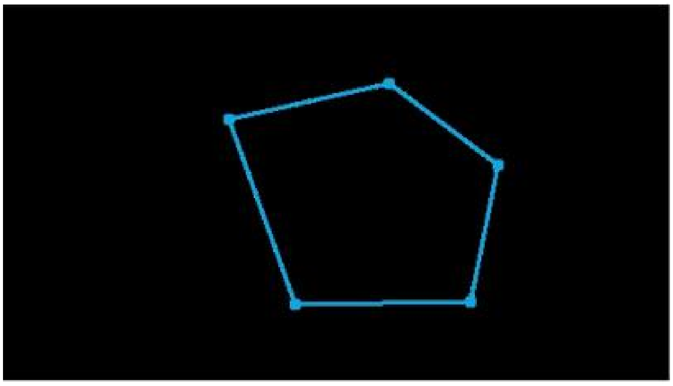
Step 2. Set Loitering detected region.

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 set or clear all set region by directly clicking Set All and Clear All.



Channel: 4 Name: CAM4

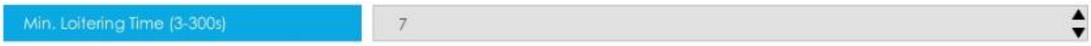
For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



Channel: 2 Name: CAM2

Step 3. Set Min. Loitering Time.

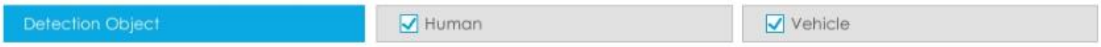
After setting minimum loitering time from 3s to 1800s, any objects loitering in the selected area over the minimum loitering time will trigger the alarm.



Min. Loitering Time (3-300s) 7

Step 4. Select the Detection Object.

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



Detection Object ☑ Human ☑ Vehicle

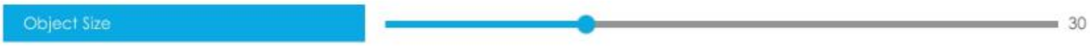
Note:

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

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

Step 5. Set Object Size.

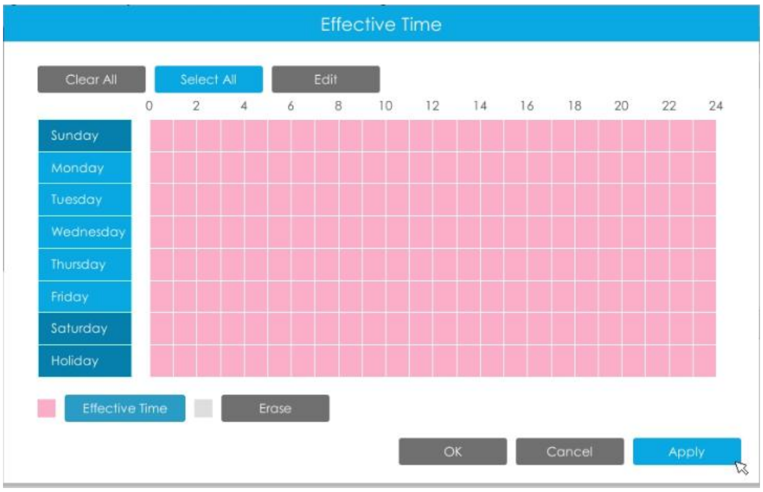
Milesight loitering allows to set "Object Size". Only the object bigger than the set size will trigger the alarm.



Object Size 30

Step 6. Set Effective Time of loitering by clicking Edit.

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



Step 7. Set Action for loitering alarm by clicking Edit**.**

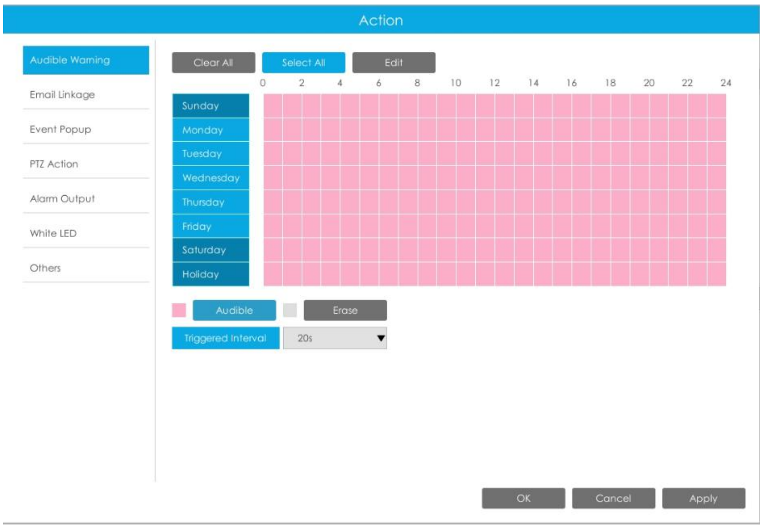
Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

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



Triggered Interval: 20s

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

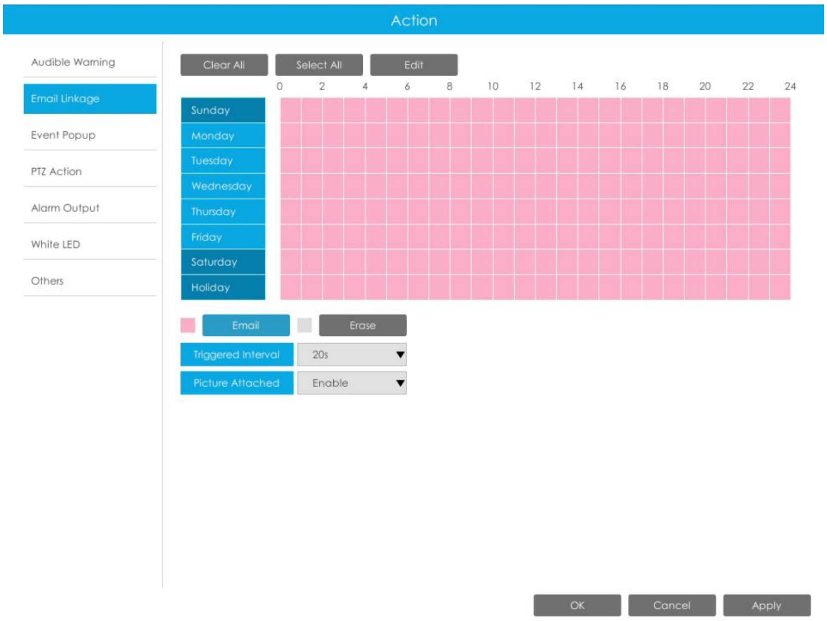
The user can set effective schedule as following two ways:

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.



Triggered Interval: 20s

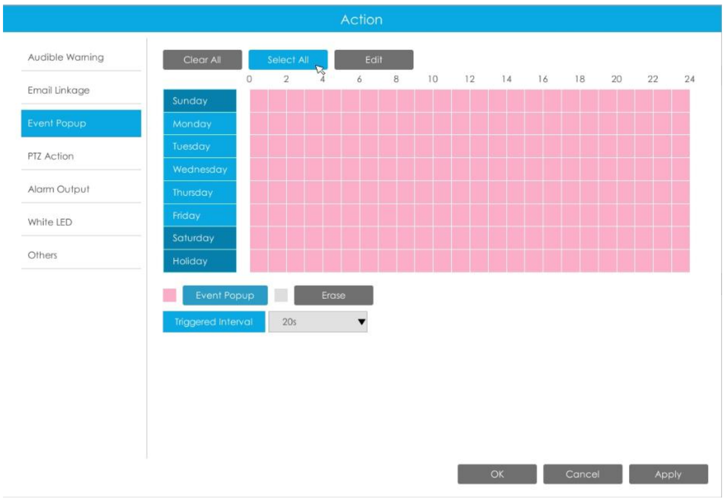
Picture Attached: Enable

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.



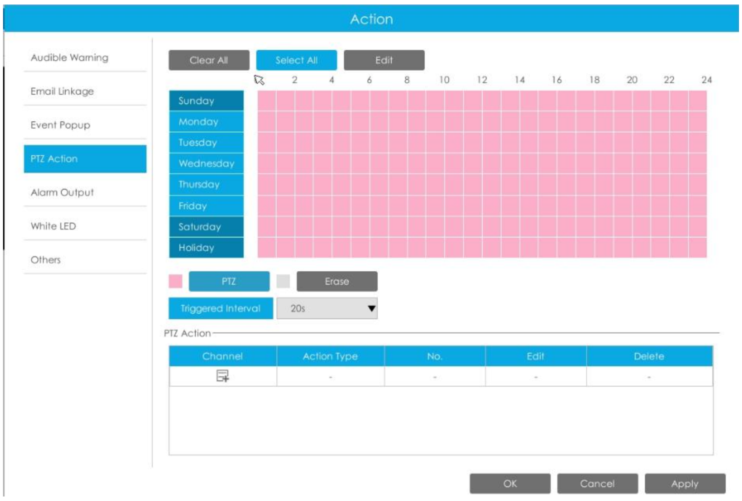
Triggered Interval: 20s

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

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

② Click Edit to edit record effective time manually.

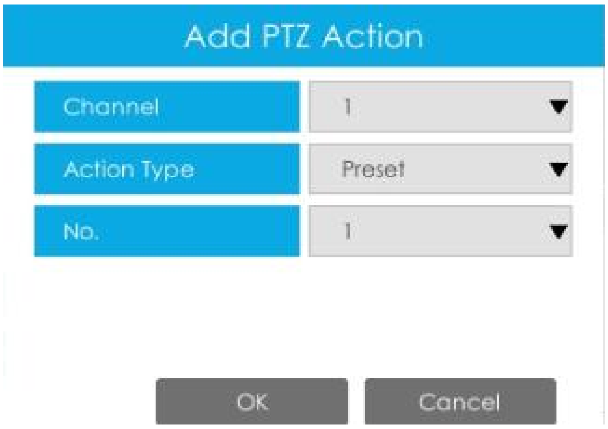
Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval: 20s

Channel	Action Type	No.	Edit	Delete
	-	-	-	-

And you can add PTZ Action by clicking .



Channel: 1
Action Type: Preset
No.: 1

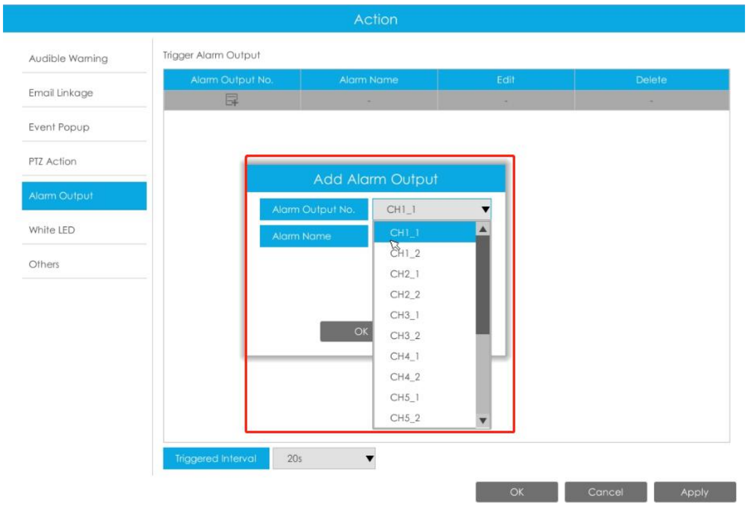
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



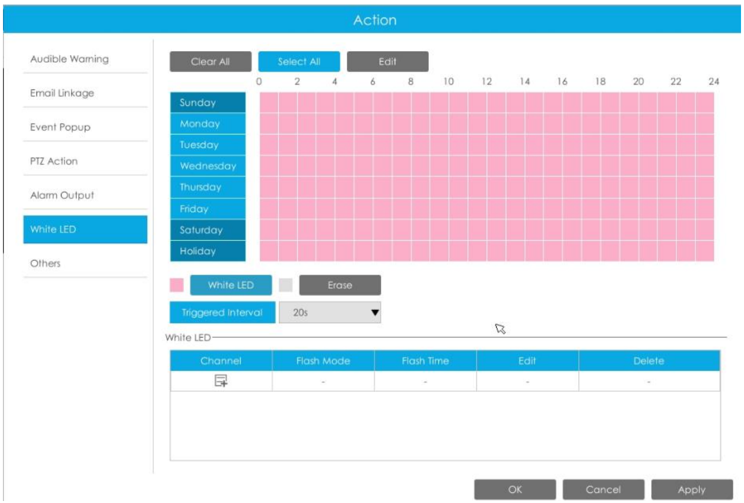
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

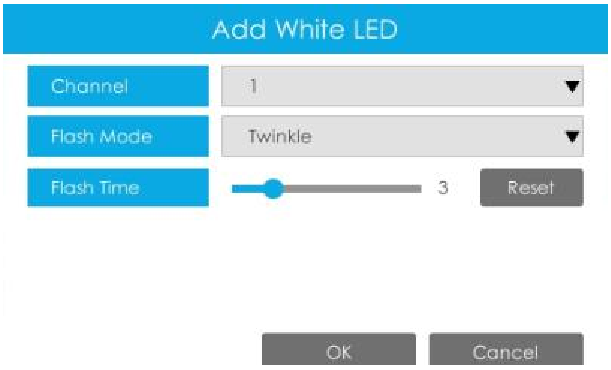
① Select the operation type, White LED and Erase. Then drag a square on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

② Click Edit to edit effective time manually.

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



And you can add White LED by clicking .



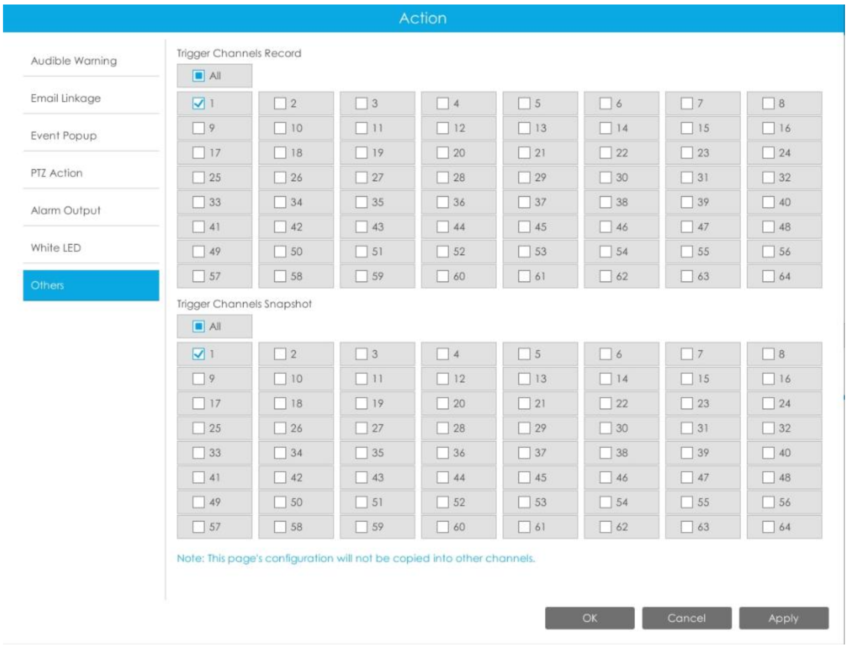
Channel: 1
Flash Mode: Twinkle
Flash Time: 3

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.



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

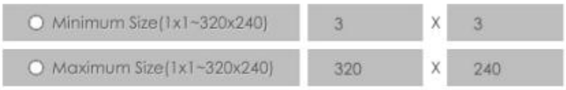
☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8
☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16
☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24
☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32
☐ 33 ☐ 34 ☐ 35 ☐ 36 ☐ 37 ☐ 38 ☐ 39 ☐ 40
☐ 41 ☐ 42 ☐ 43 ☐ 44 ☐ 45 ☐ 46 ☐ 47 ☐ 48
☐ 49 ☐ 50 ☐ 51 ☐ 52 ☐ 53 ☐ 54 ☐ 55 ☐ 56
☐ 57 ☐ 58 ☐ 59 ☐ 60 ☐ 61 ☐ 62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

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

Note:

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

Step 8. Set Minimum Size and Maximum Size.



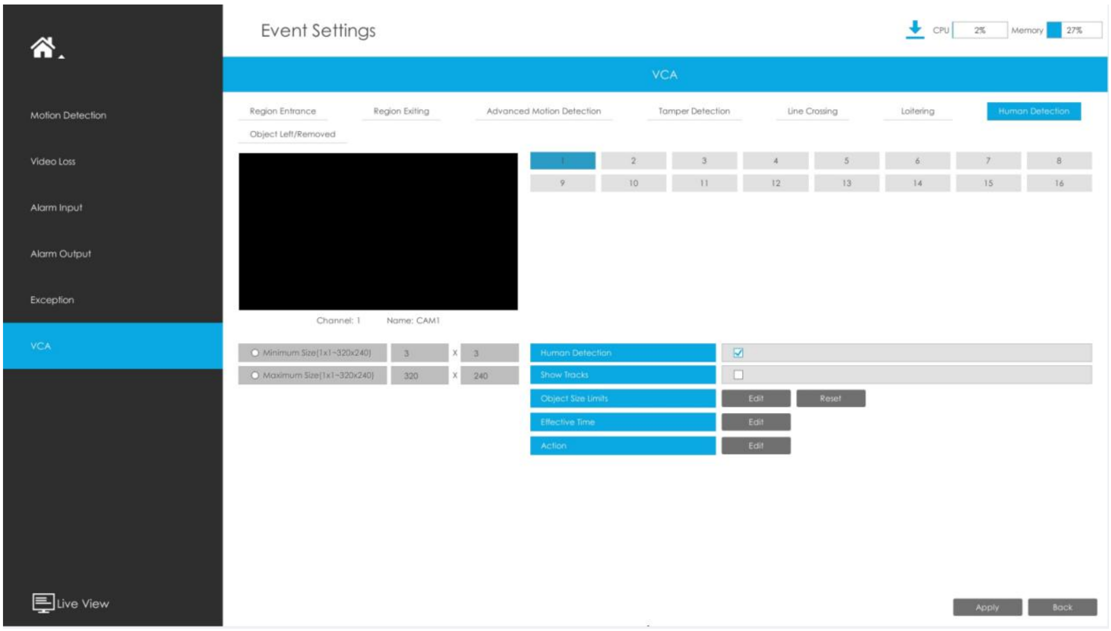
○ Minimum Size(1x1~320x240) 3 X 3
○ Maximum Size(1x1~320x240) 320 X 240

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

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

Human Detection

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



Step 1. Select channel and enable Human Detection.

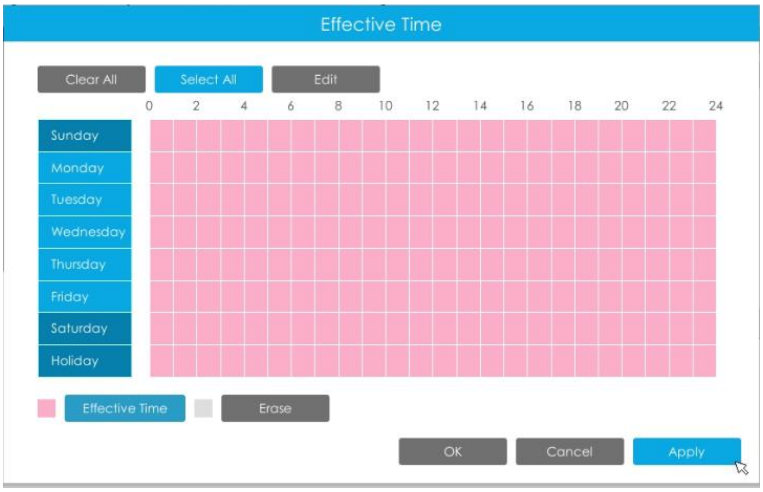
Human Detection ☑

Step 2. Enable Show Tracks or not.

Show Tracks ☑

Step 3. 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 4. Set Action for human detection alarm by clicking Edit**.**

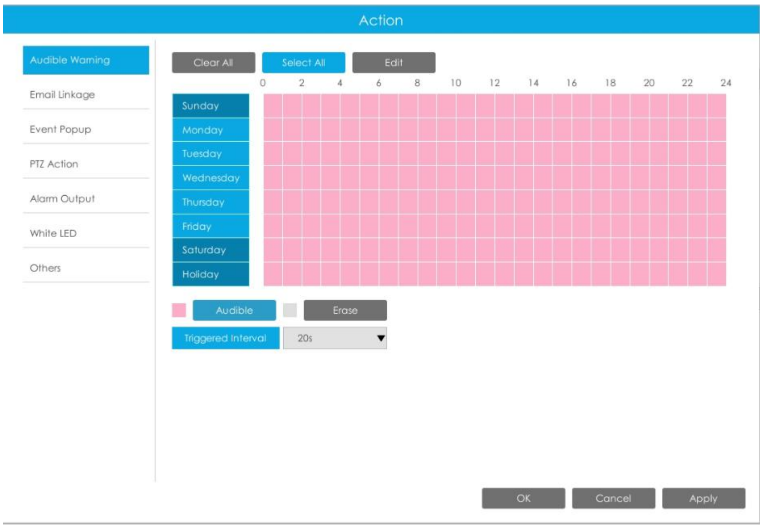
Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

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



Triggered Interval: 20s

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

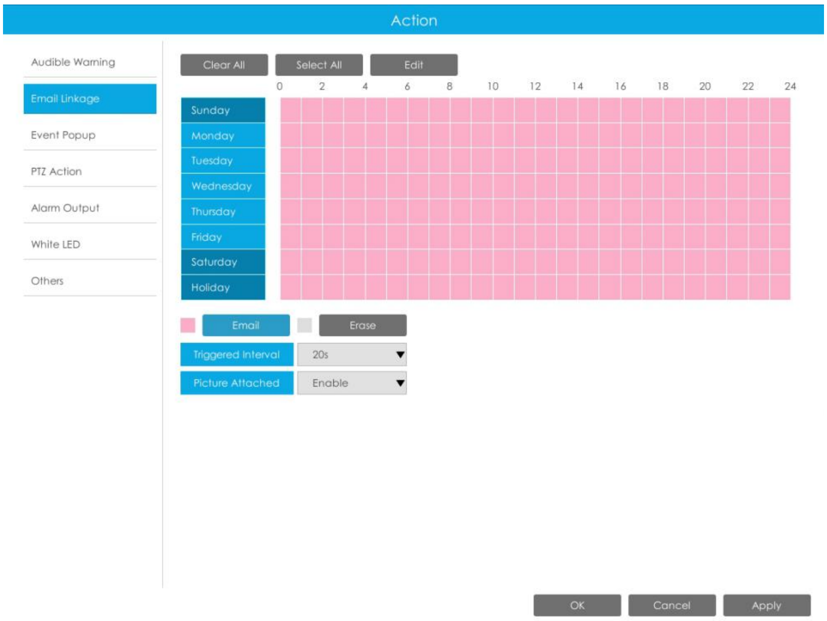
The user can set effective schedule as following two ways:

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.



Triggered Interval: 20s

Picture Attached: Enable

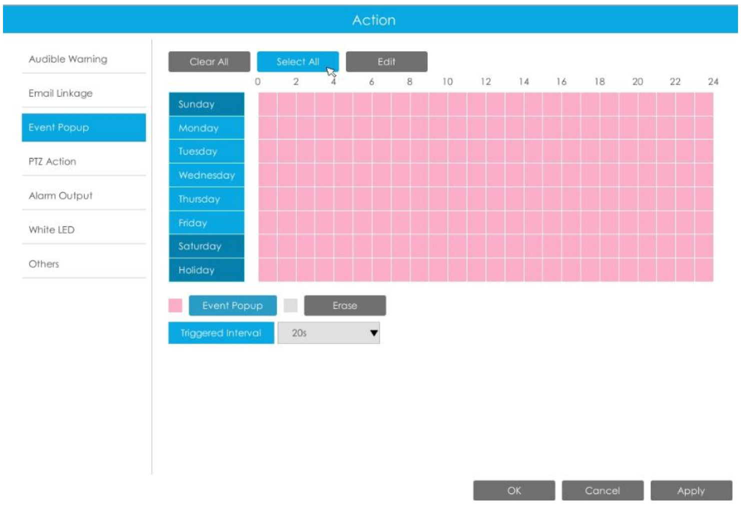
Event Popup: Trigger alarm screen popup to full screen when alarm is triggered. And you can set display duration time of all triggered channel in 'Settings'->'General'->'Event Popup Duration

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.



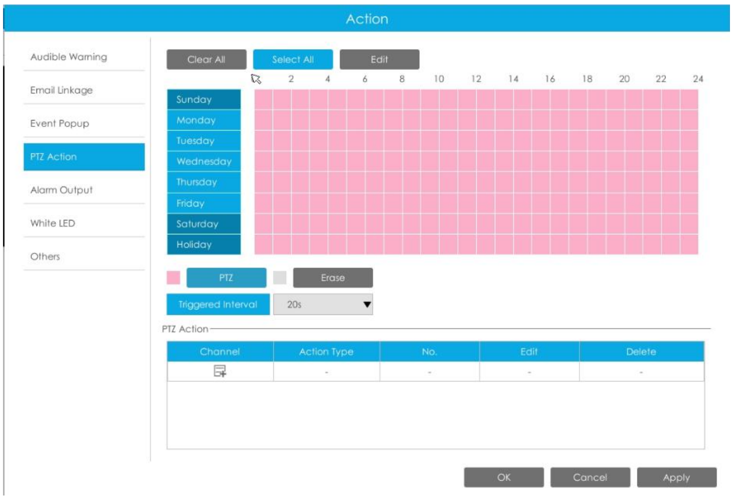
Triggered Interval 20s

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

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

② Click Edit to edit record effective time manually.

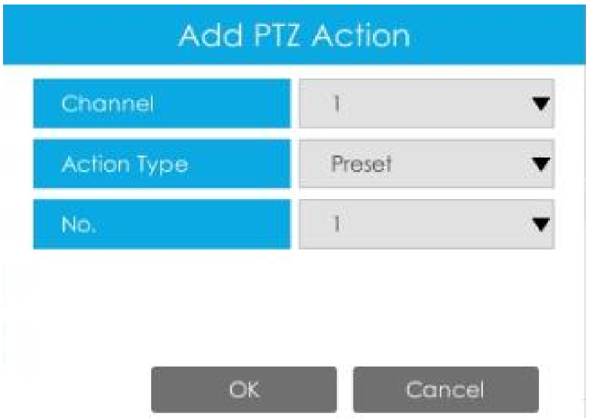
Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

Channel	Action Type	No.	Edit	Delete
	-	-	-	-

And you can add PTZ Action by clicking .



Channel: 1

Action Type: Preset

No.: 1

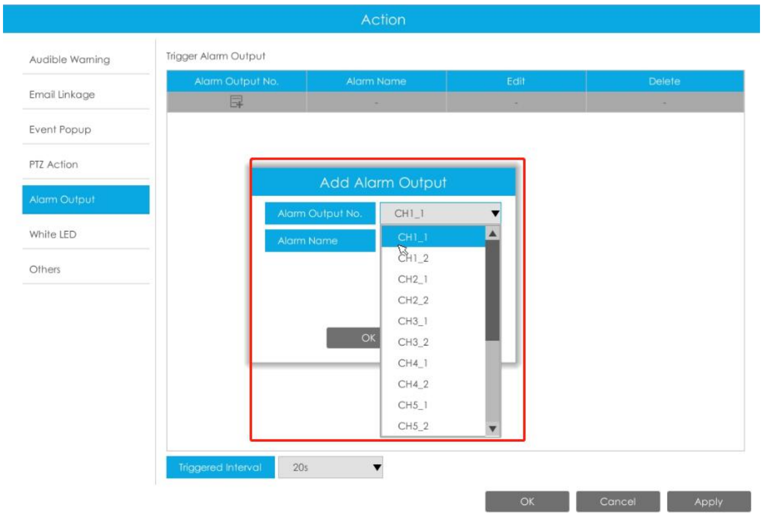
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



Alarm Output No.: CH1_1

Triggered Interval: 20s

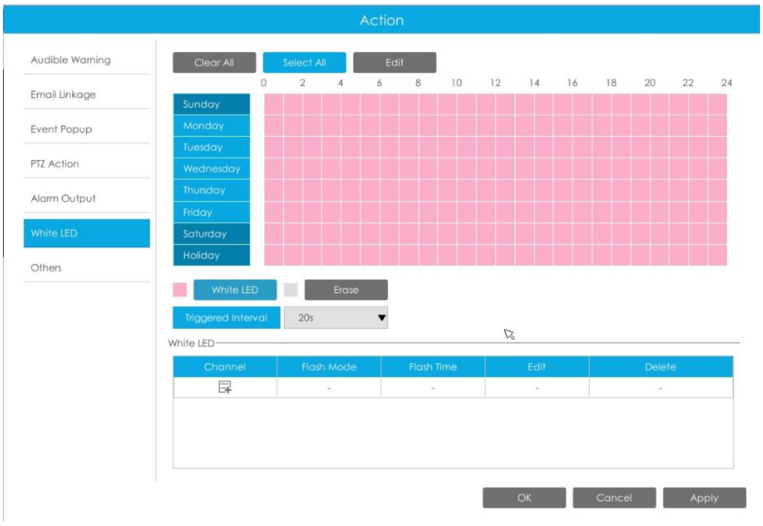
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

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

② Click Edit to edit effective time manually.

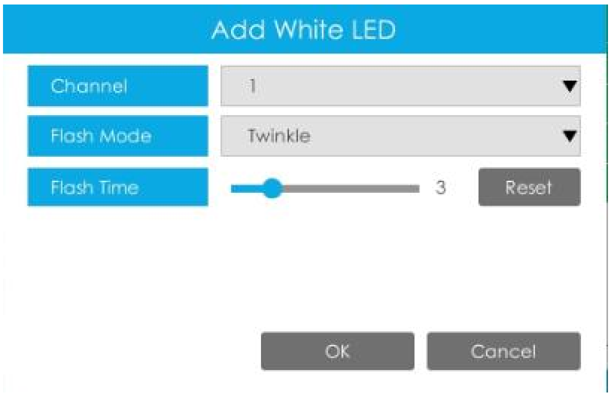
Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

White LED

And you can add White LED by clicking ⊞.



Channel 1

Flash Mode Twinkle

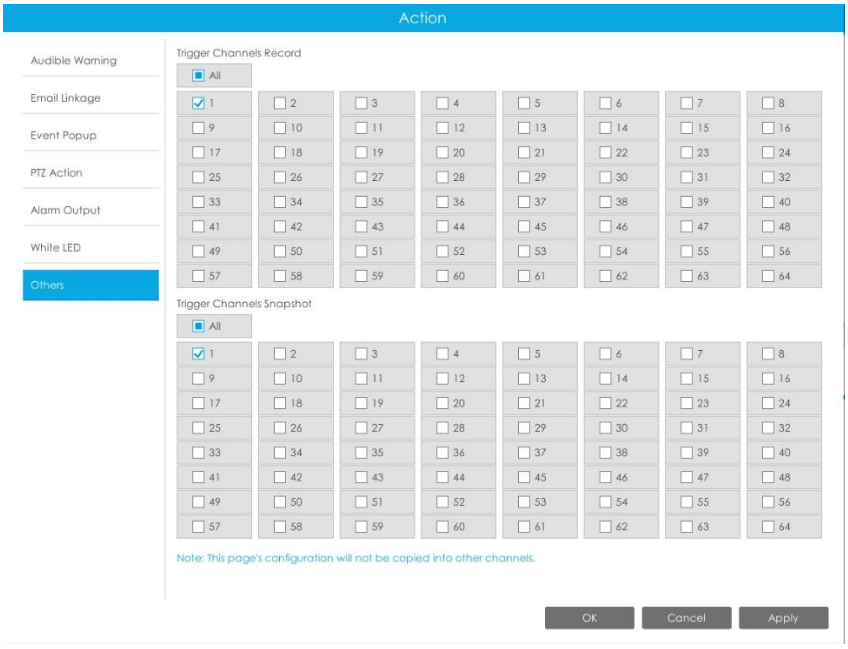
Flash Time 3

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.



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

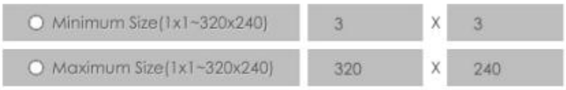
Trigger Channels Snapshot

■ 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.

Step 5. 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 Human Detection will take effect.

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

Note：

① Make sure you have set correct schedule for record and snapshot before setting the Event Action.

② Human Detection tab is no longer displayed separately for all AI cameras.

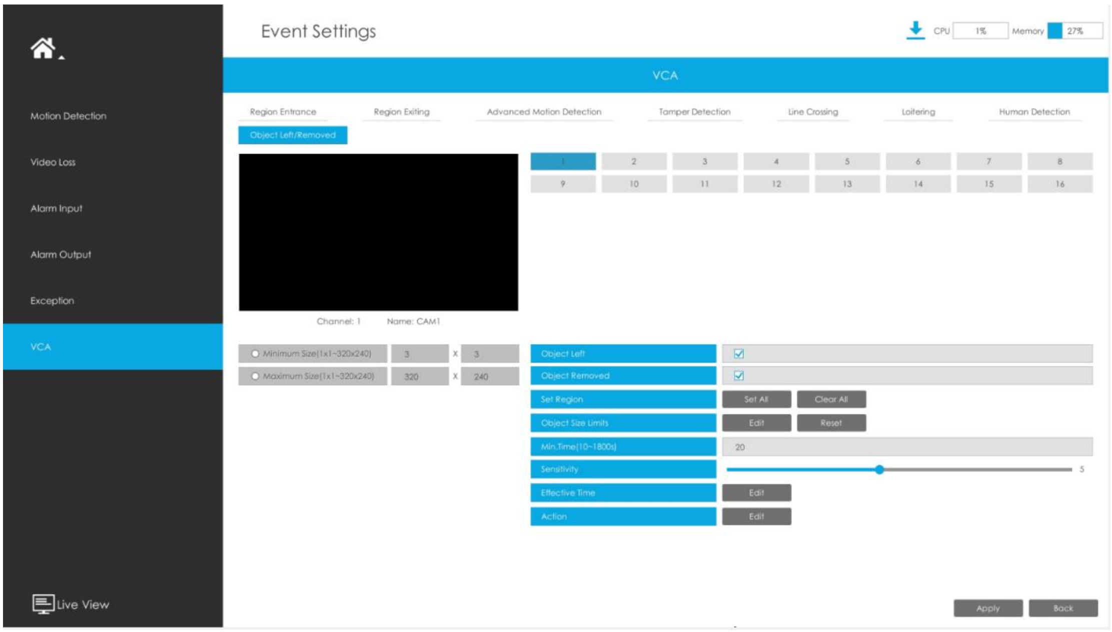
Object Left/Removed

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

Note:

You need to upgrade the NVR to V7x.9.0.4-r2 or above to support this function.

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



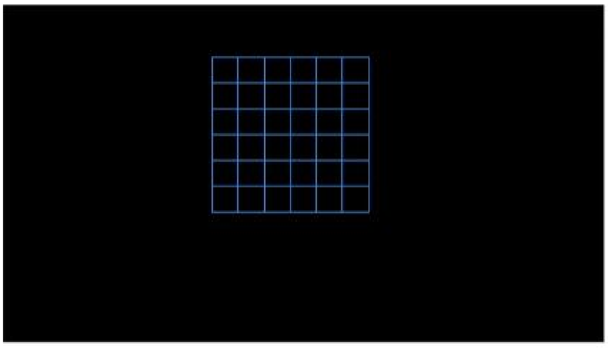
Channel: 1 Name: CAM1

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

Object Left ☑
Object Removed ☑
Set Region
Object Size Limits
Min.Time(10~1800s) 20
Sensitivity 5
Effective Time
Action

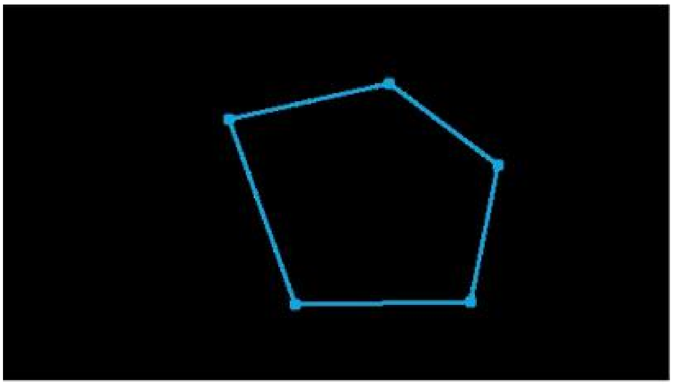
Step 2. Set detection region.

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



Channel: 1 Name: CAM1

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 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

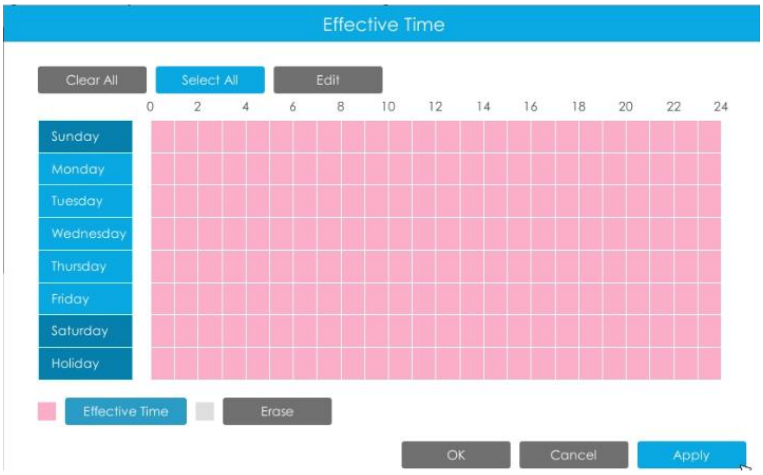
Step 4. Set Sensitivity.

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: 5

Step 5. Set Effective Time of object left/removed 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 6. Set Action for object left/removed alarm by clicking Edit.

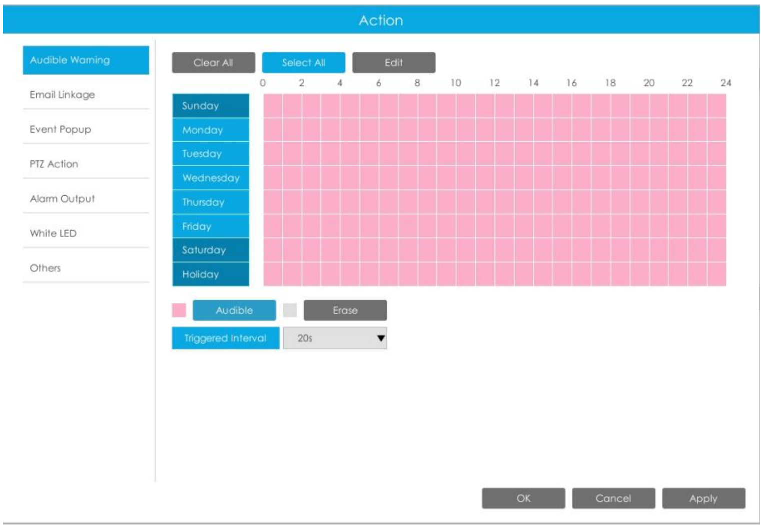
Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

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

② Click Edit to edit record effective time manually.

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



Triggered Interval: 20s

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

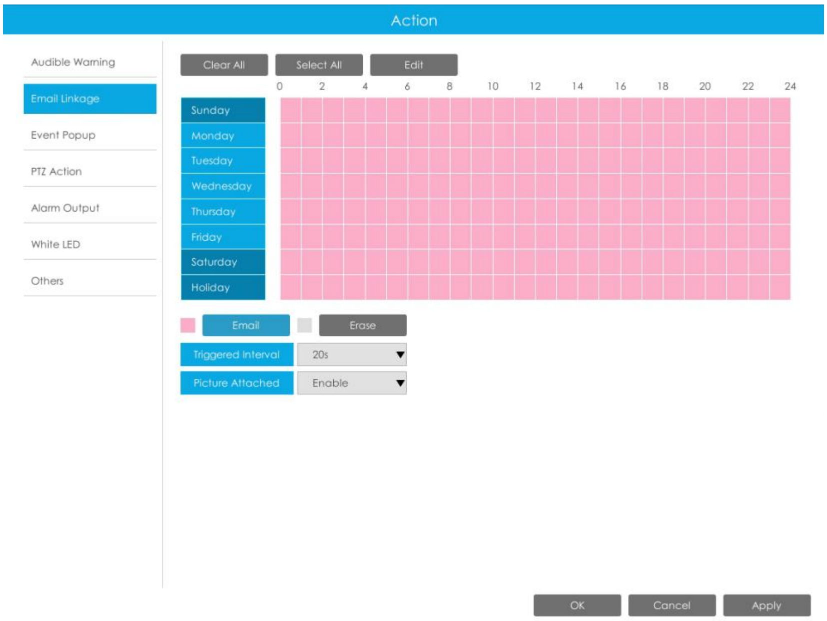
The user can set effective schedule as following two ways:

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.



Triggered Interval: 20s

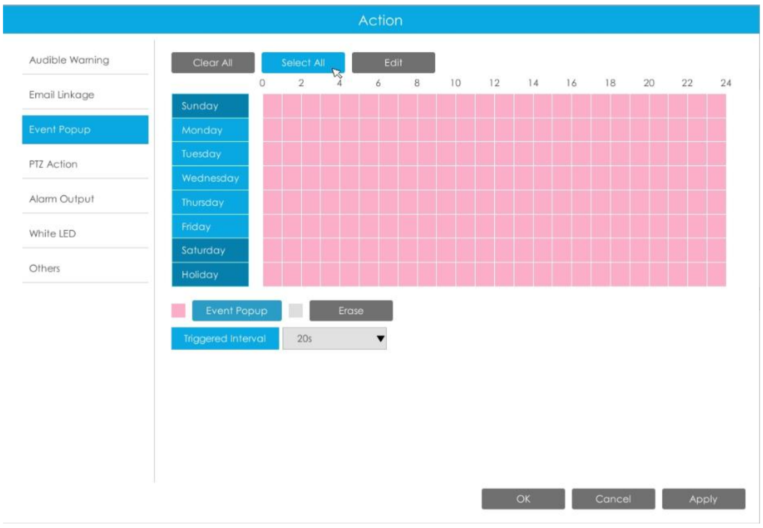
Picture Attached: Enable

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.



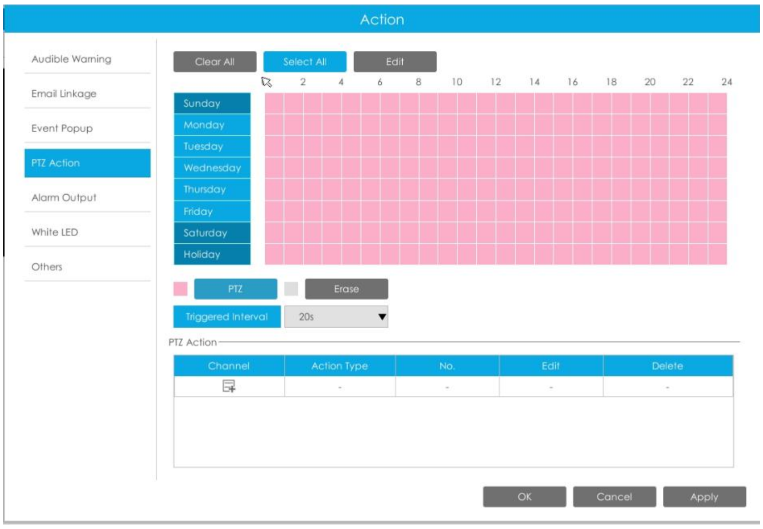
Triggered Interval: 20s

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

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

② Click Edit to edit record effective time manually.

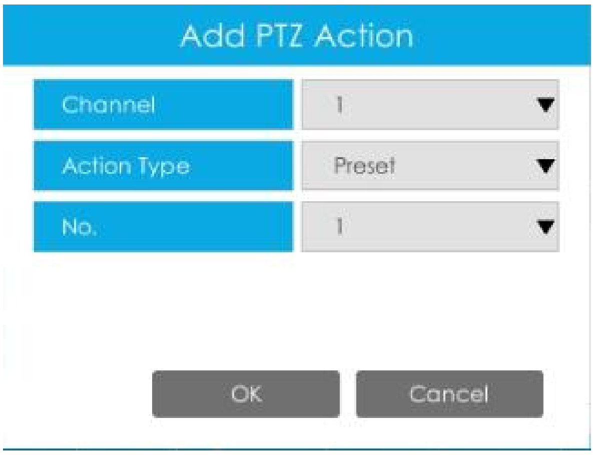
Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval: 20s

Channel	Action Type	No.	Edit	Delete
	-	-	-	-

And you can add PTZ Action by clicking .



Channel: 1
Action Type: Preset
No.: 1

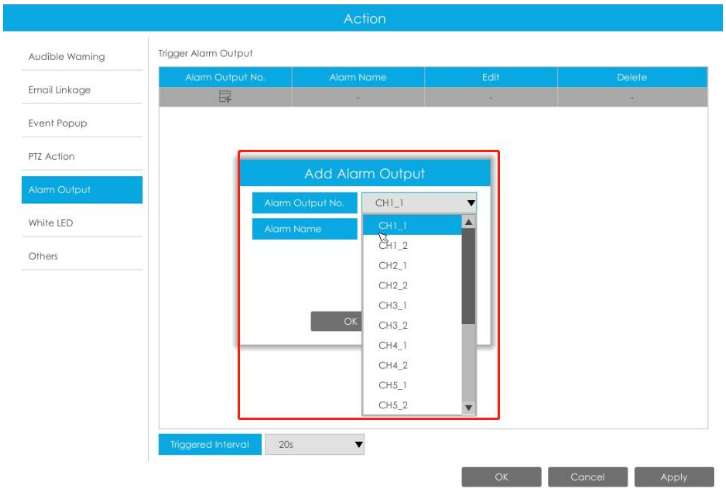
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



Alarm Output No.: CH1_1
Triggered Interval: 20s

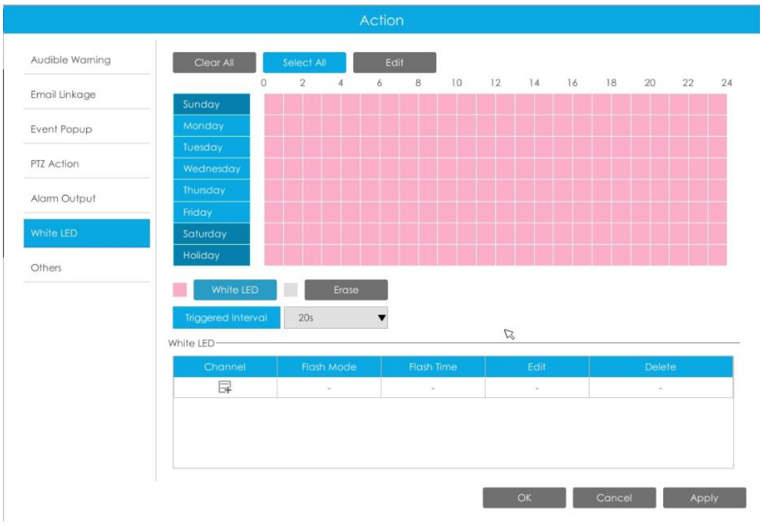
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

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

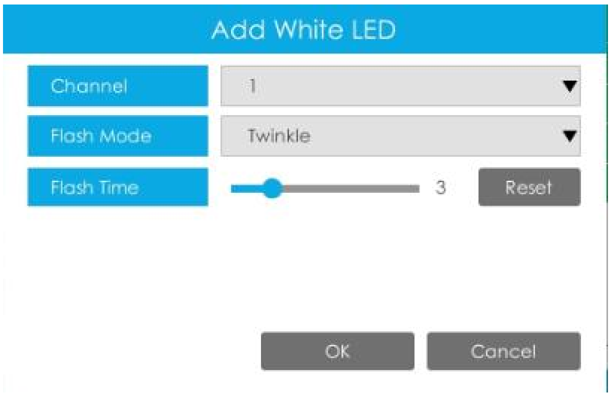
② Click Edit to edit effective time manually.

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



Triggered Interval 20s

And you can add White LED by clicking .



Channel 1

Flash Mode Twinkle

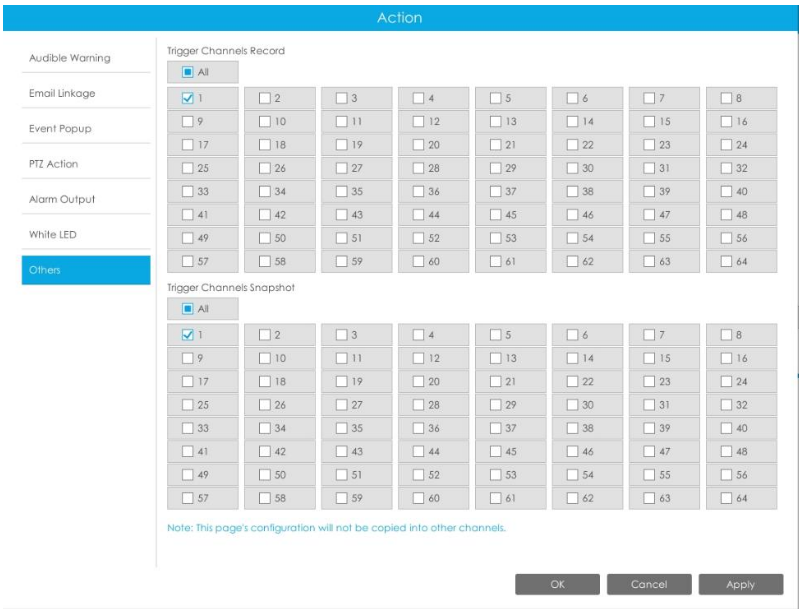
Flash Time 3

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.

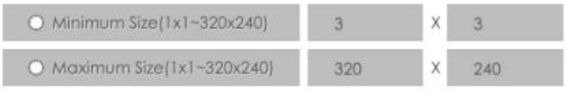


Note: This page's configuration will not be copied into other channels.

Note：

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

Step 7. Set Minimum Size and Maximum Size.



○ Minimum Size(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 Object Left/Removed will take effect.

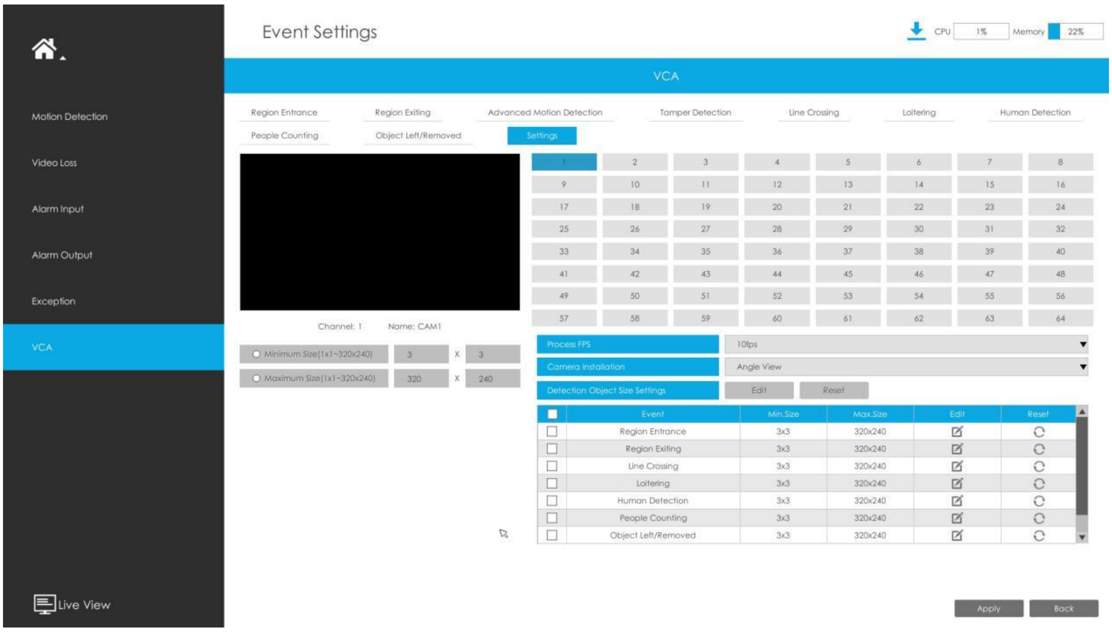
Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Object Left/Removed will take effect.

Settings

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

Note:

For cameras with the firmware version higher than 4X.7.0.78 and the NVRs with firmware version higher than 7X.9.0.12, Settings tab is no longer displayed separately.



Channel: 1 Name: CAM1

○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

Process FPS: 10fps

Camera Installation: Angle View

☐	Event	Min.Size	Max.Size	Edit	Reset
☐	Region Entrance	3x3	320x240		
☐	Region Exiting	3x3	320x240		
☐	Line Crossing	3x3	320x240		
☐	Loitering	3x3	320x240		
☐	Human Detection	3x3	320x240		
☐	People Counting	3x3	320x240		
☐	Object Left/Removed	3x3	320x240		

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.

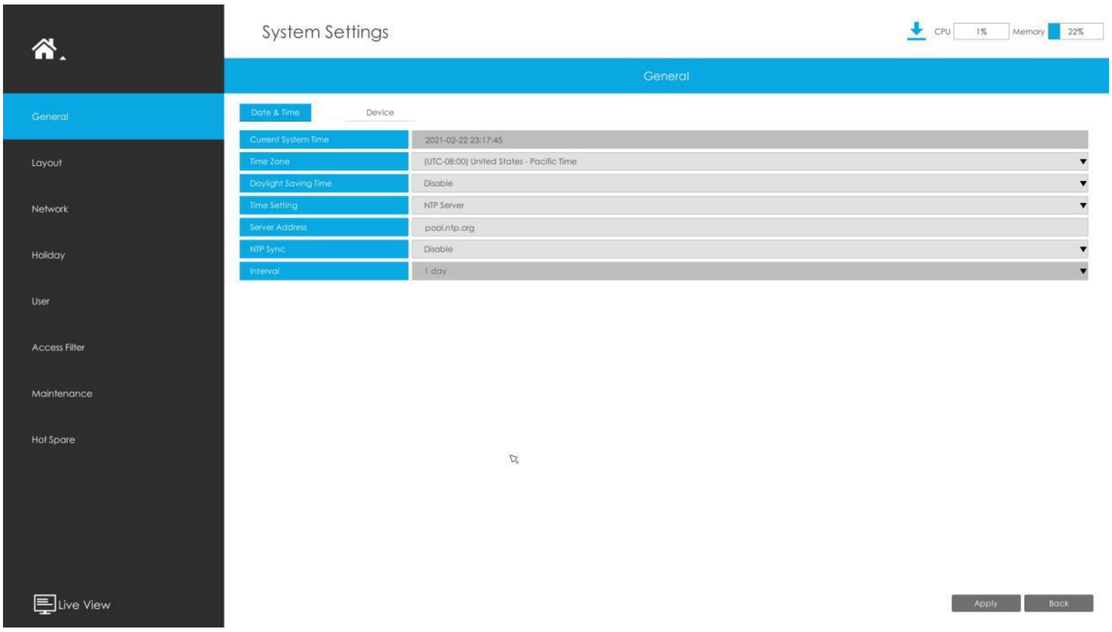
NVR: V7X.9.0.9 or above.

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.



Current System Time: 2021-02-22 23:17:45
Time Zone: (UTC-08:00) United States - Pacific Time
Daylight Saving Time: Disable
Time Setting: NTP Server
Server Address: pool.ntp.org
NTP Sync: Disable
Interval: 1 day

Server Address： Support to Enter the address of NTP Server manually.

NTP Sync： Set the time of NVR to synchronize with the NTP server.

Interval： The interval for synchronizing with NTP server can be set.

Device

It is for setting up the general parameters of NVR, including Device Name, HDMI/VGA Resolution, Language, HDMI2/VGA2, HDMI Audio, Audio Out, etc.

Event Popup Duration Time: The display duration time for the alarm popup screen. If users select "Manually Clear", the live view will exit the alarm screen popup status only after manual operation.

Mouse Pointer Speed Level: Adjust the speed of mouse on monitor. From 1 to 7, there are 7 levels to choose. The default level is 5.

Level	Adjusted speed
1	0.2 times the current speed
2	0.3 times the current speed
3	0.5 times the current speed
4	the current speed
5(Default)	2 times the current speed
6	3 times the current speed
7	4 times the current speed

Boot Wizard: Enable it to pop up boot wizard after rebooting.

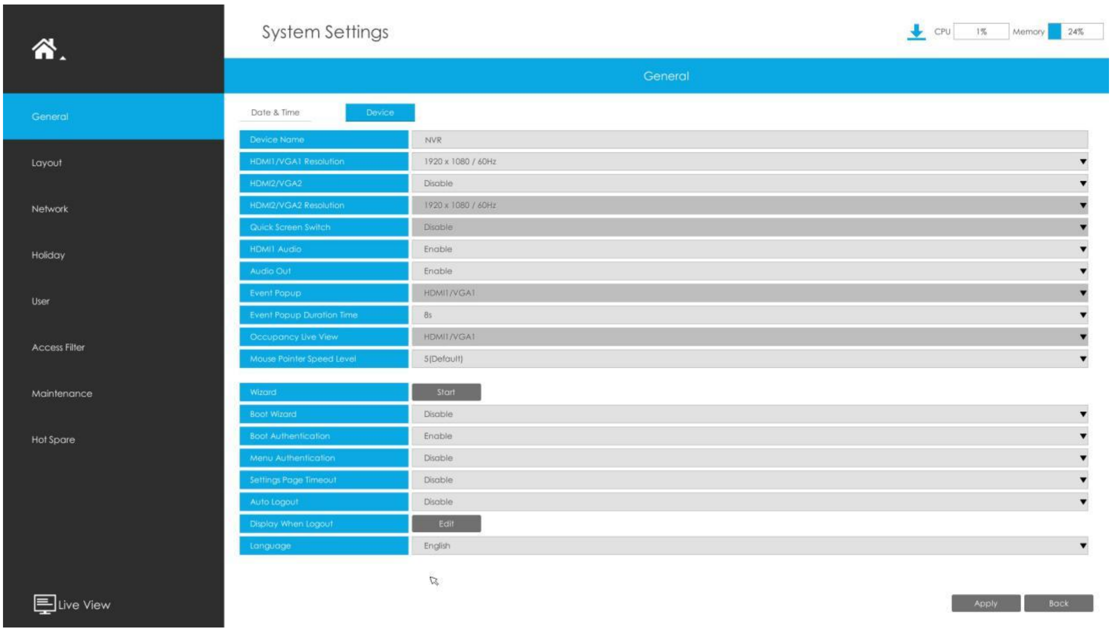
Boot Authentication: Enable it to authenticate the user after rebooting.

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

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

Auto Logout: Users will log out automatically when there is no operation within the set time period.

Display When Logout: Set display mode of the live view interface when users log out. There are three options: Regular Mode, Occupancy Mode and Target Mode.

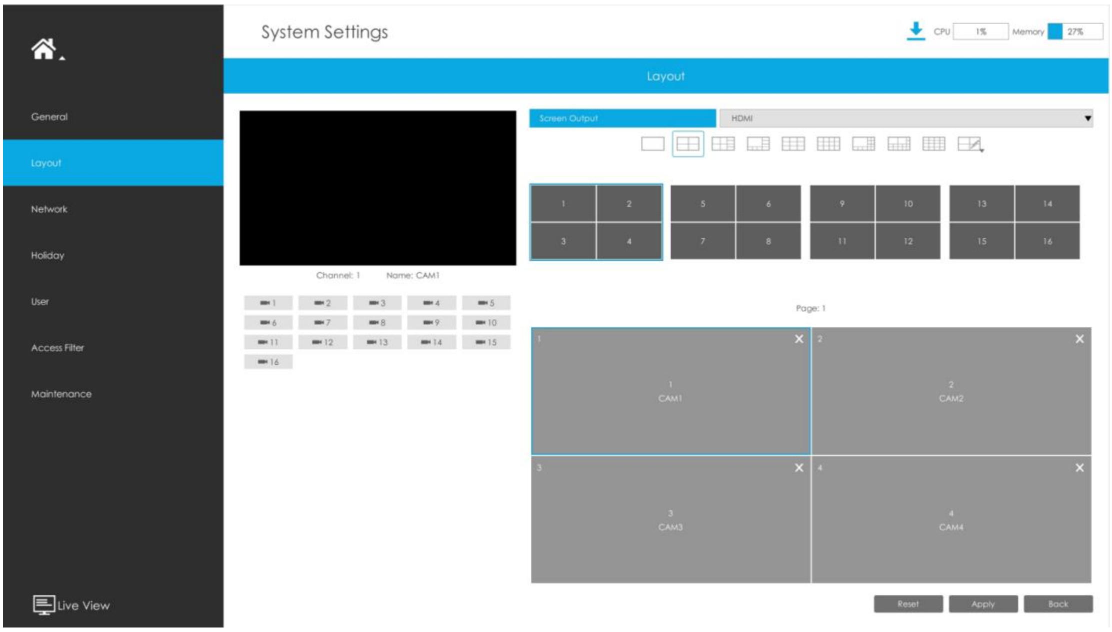


Device Name	NVR
HDMI1/VGA1 Resolution	1920 x 1080 / 60Hz
HDMI2/VGA2	Disable
HDMI2/VGA2 Resolution	1920 x 1080 / 60Hz
Quick Screen Switch	Disable
HDMI1 Audio	Enable
Audio Out	Enable
Event Popup	HDMI1/VGA1
Event Popup Duration Time	8s
Occupancy Live View	HDMI1/VGA1
Mouse Pointer Speed Level	5(Default)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

Note:

Not all NVR supports all the configurations above. For example, only NVR 8000 Series supports HDMI2/VGA2, Event Popup options and switching between the main-screen and sub-screen , which can be controlled by double-click the mouse wheel after enabling Quick Screen Switch function.

3.9.2 Layout



Screen Output: HDMI

Channel: 1 Name: CAM1

Page: 1

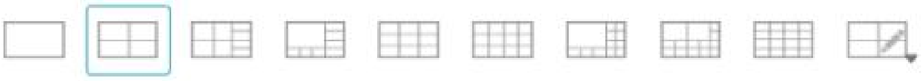
Step 1. Select Screen Output.

You can configure layout for different Screen Output separately to meet the needs of monitoring different scenarios through different Screen Output.

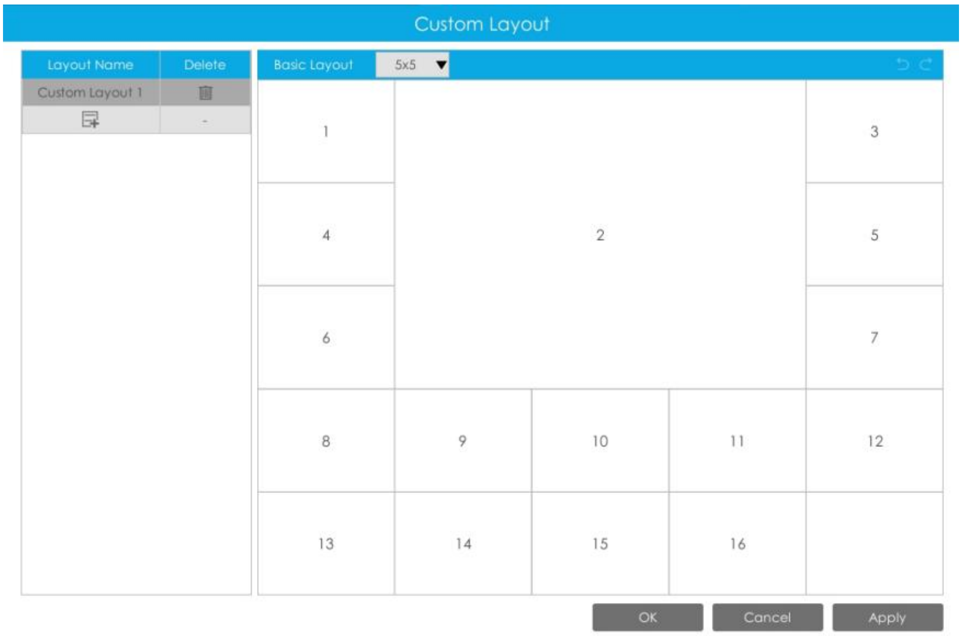
Note:

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 Apply button and then click OK to save the custom layout.



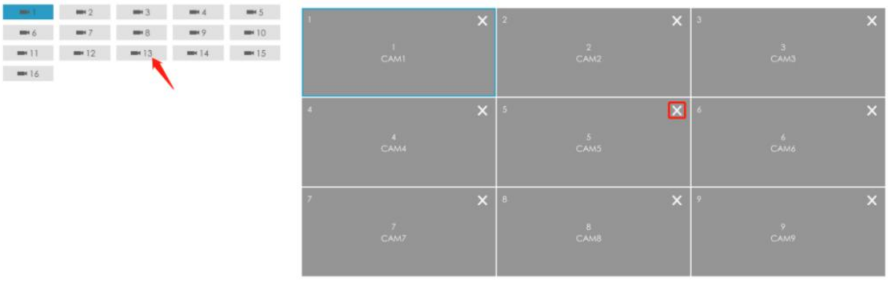
Note:

You can create a custom layout based on a basic layout, and it supports up to 5*5 basic layout.

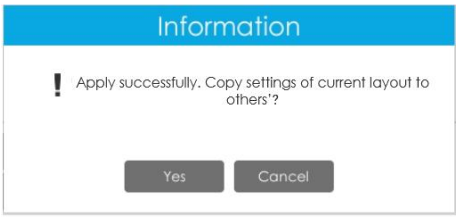
Step 3. Set desired channels.

Click ☒ to close a channel. Select a window and then select a desired channel to add in.

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



Step 4. Select whether to apply settings of current layout to others.



Apply successfully. Copy 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.

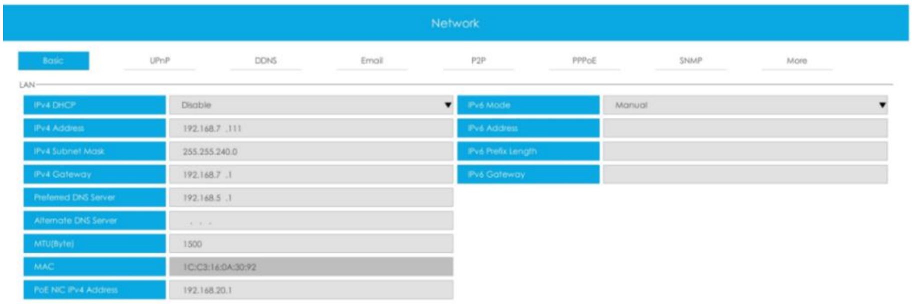
IPv6

Manual/ Router Advertisement/ DHCPv6 are available.

DNS Server

Preferred DNS Server: DNS server IP address.

Alternate DNS Server: DNS server alternate address.



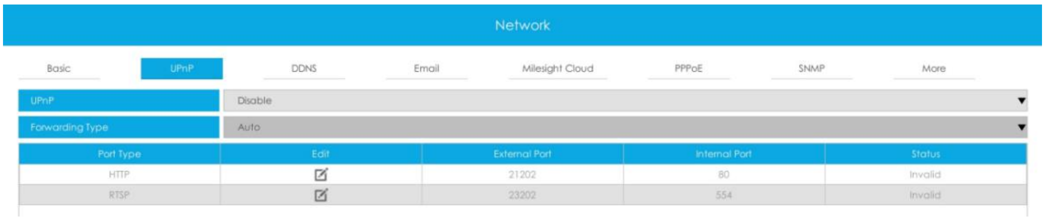
IPv4 DHCP	Disable	IPv6 Mode	Manual
IPv4 Address	192.168.7 .111	IPv6 Address	
IPv4 Subnet Mask	255.255.240.0	IPv6 Prefix Length	
IPv4 Gateway	192.168.7 .1	IPv6 Gateway	
Preferred DNS Server	192.168.5 .1		
Alternate DNS Server	. . .		
MTU(Byte)	1500		
MAC	1C:C3:16:0A:30:92		
PoE NIC IPv4 Address	192.168.20.1		

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**.



UPnP	Disable ▼
Forwarding Type	Auto ▼

Port Type	Edit	External Port	Internal Port	Status
HTTP	✎	21202	80	Invalid
RTSP	✎	23202	554	Invalid

3.9.3.3 DDNS

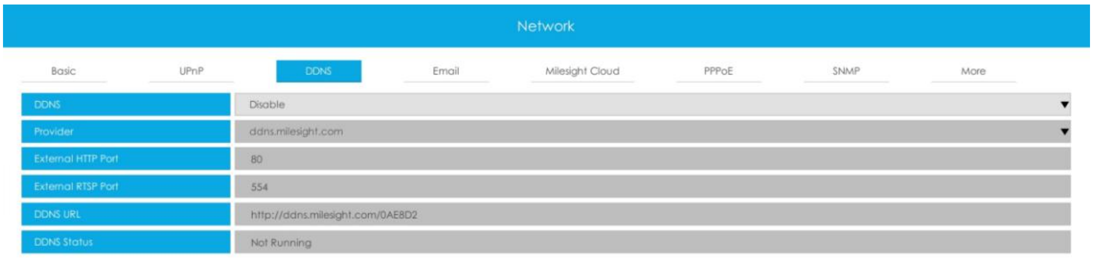
Using DDNS to solve the dynamic IP address problem.

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:

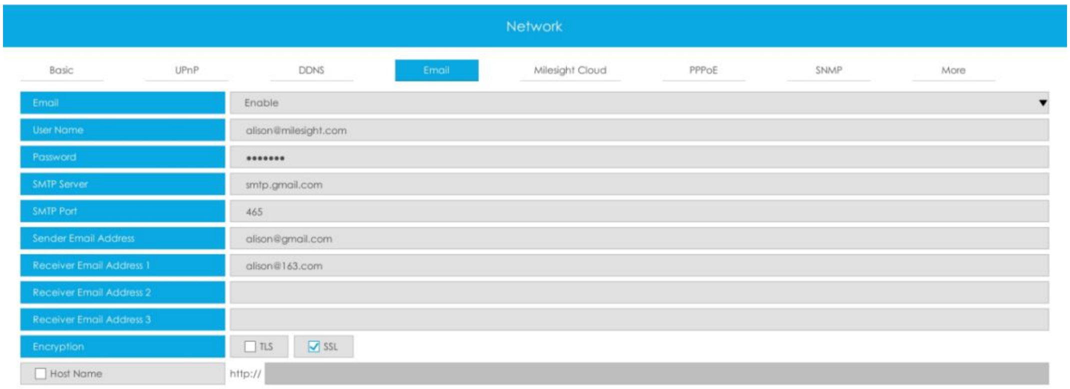
“Host Name” must begin with letters, and it can only contain number, letters, and hyphen.



DDNS	Disable ▼
Provider	ddns.milesight.com ▼
External HTTP Port	80
External RTSP Port	554
DDNS URL	http://ddns.milesight.com/0AE8D2
DDNS Status	Not Running

3.9.3.4 Email

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



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	☐ TLS ☑ SSL
☐ Host Name	http://

Enable Email selection and then begin configuration.

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

Password: The password of the E-mail.

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

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

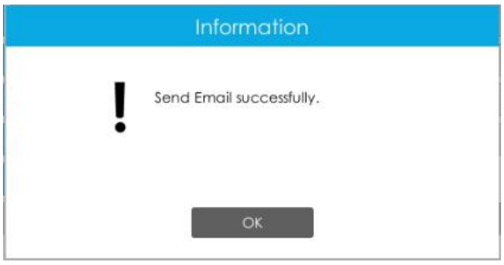
Sender Email Address: It must be same as [User name].

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

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

Host Name: It will be attached in the email.

Select Test to check if the Mail function is workable.



Information

Send Email successfully.

Note:

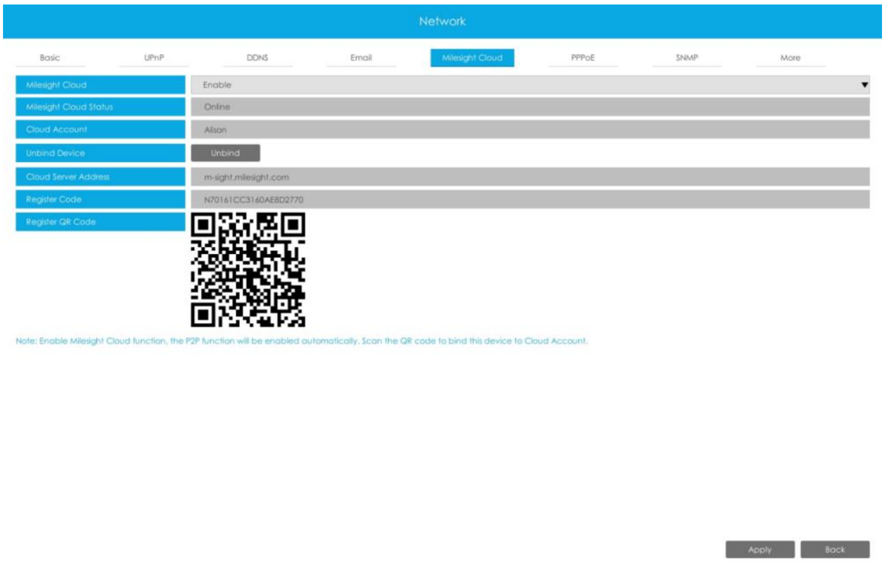
If your NVR has a port forwarding IP for Host Name, please input the complete address that contains the port.

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.



Milesight Cloud: Enable

Milesight Cloud Status: Online

Cloud Account: Alison

Unbind Device

Cloud Server Address: m-sight.milesight.com

Register Code: N70161CC3160AE8D2770

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.

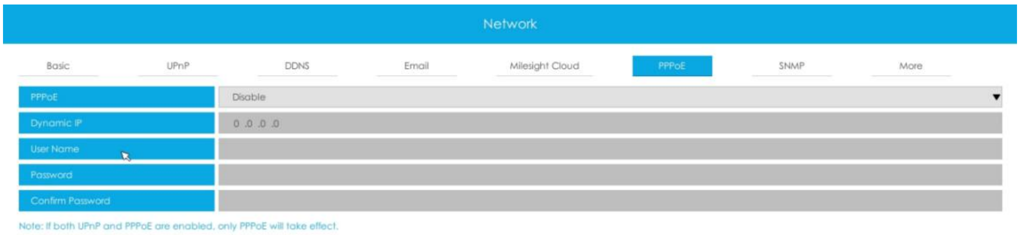
If you enable Milesight Cloud function, the P2P function will be enabled automatically.

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.

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.



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.

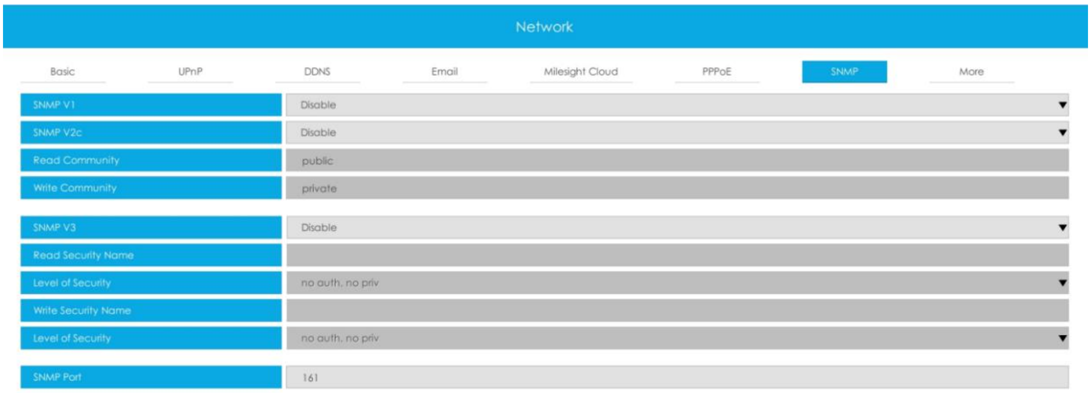
Note：

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.



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

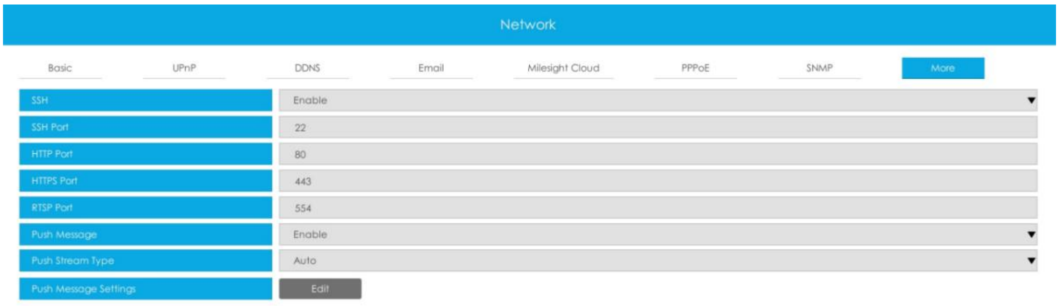
Level of Security: There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv)

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 More



SSH	Enable
SSH Port	22
HTTP Port	80
HTTPS Port	443
RTSP Port	554
Push Message	Enable
Push Stream Type	Auto
Push Message Settings	

SSH

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

SSH Port

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

HTTP Port

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

Note:

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

HTTPS Port

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

Note:

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

RTSP Port

Real Time Streaming Protocol (RTSP) is an application layer protocol in TCP/IP protocol system. The default RTSP port is 554. Please modify RTSP port according to actual application.

Note:

1. RTSP port is used for remote network live view.
2. RTSP port valid range is 554 or 1024~65535.
3. The RTSP format of Milesight NVR is “rtsp://IP:RTSP port/ch_xxx”.

① IP: The IP address of NVR;

② RTSP port: The default RTSP port is 554;

③ ch_xxx: The first number of xxx represents stream type, 1 for main stream and 4 for sub stream. The last two represents channel number, which start from ‘00’ (‘00’ means channel 1). Take ‘rtsp://192.168.8.179:554/ch_402’ as an example:

The IP address of NVR is 192.168.8.179.

The RTSP port is 554.

The stream type is sub stream and the channel number is 3.

Push Message

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

Push Stream Type

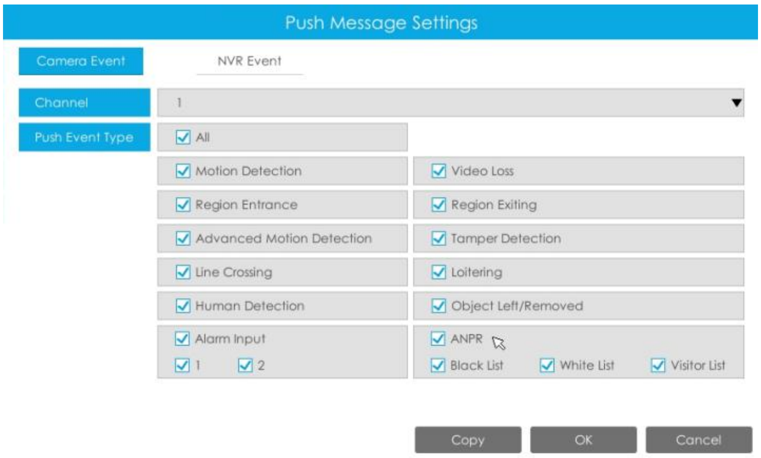
Select which video stream will be pushed to APP M-Sight Pro. Auto, Primary Stream and Secondary Stream are available.

Note:

Only NVR model ends with letter T support this option.

Push Message Settings

① **Camera Event**

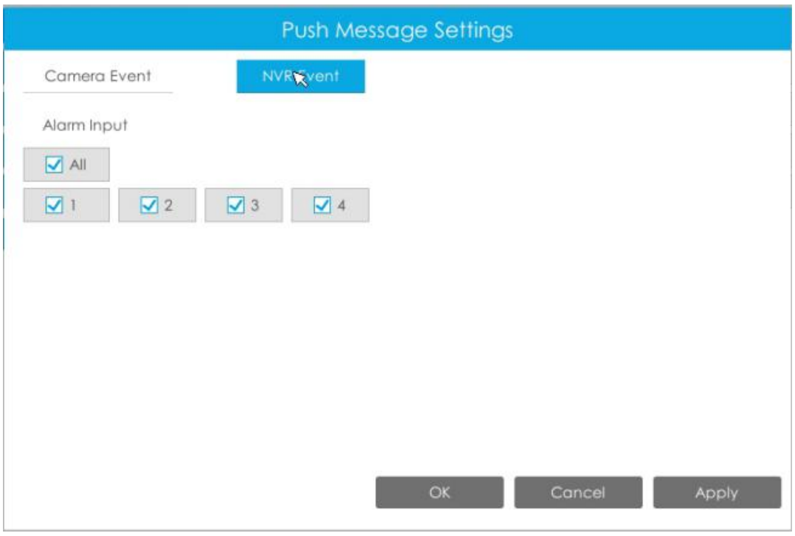


Channel: 1

Push Event Type:
☑ All
☑ Motion Detection ☑ Video Loss
☑ Region Entrance ☑ Region Exiting
☑ Advanced Motion Detection ☑ Tamper Detection
☑ Line Crossing ☑ Loitering
☑ Human Detection ☑ Object Left/Removed
☑ Alarm Input ☑ 1 ☑ 2
☑ ANPR ☑ Black List ☑ White List ☑ Visitor List

Select Push Event Type which will be pushed to APP M-sight Pro. There are different Push Event Types for every channel to choose, which means every camera added in this NVR can choose what Event Type it wants to push, like Motion Detection, Video Loss, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering Human Detection, Object Left/Removed, Alarm Input and ANPR(Only for MS-NXXXX-XXT/H).

② **NVR Event**



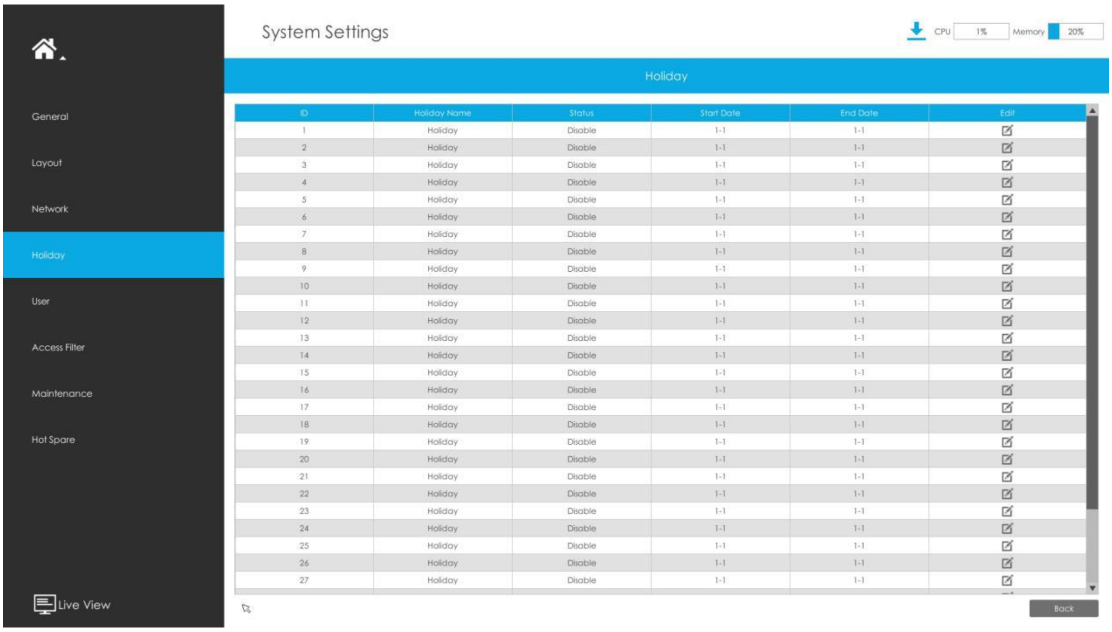
Select channels which you want to push the Alarm Input Event of NVR.

Note：

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

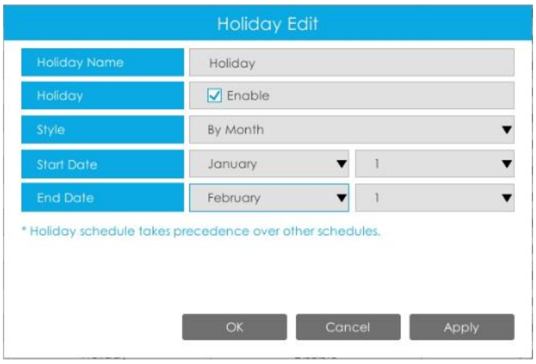
3.9.4 Holiday

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



ID	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	✎
16	Holiday	Disable	1-1	1-1	✎
17	Holiday	Disable	1-1	1-1	✎
18	Holiday	Disable	1-1	1-1	✎
19	Holiday	Disable	1-1	1-1	✎
20	Holiday	Disable	1-1	1-1	✎
21	Holiday	Disable	1-1	1-1	✎
22	Holiday	Disable	1-1	1-1	✎
23	Holiday	Disable	1-1	1-1	✎
24	Holiday	Disable	1-1	1-1	✎
25	Holiday	Disable	1-1	1-1	✎
26	Holiday	Disable	1-1	1-1	✎
27	Holiday	Disable	1-1	1-1	✎

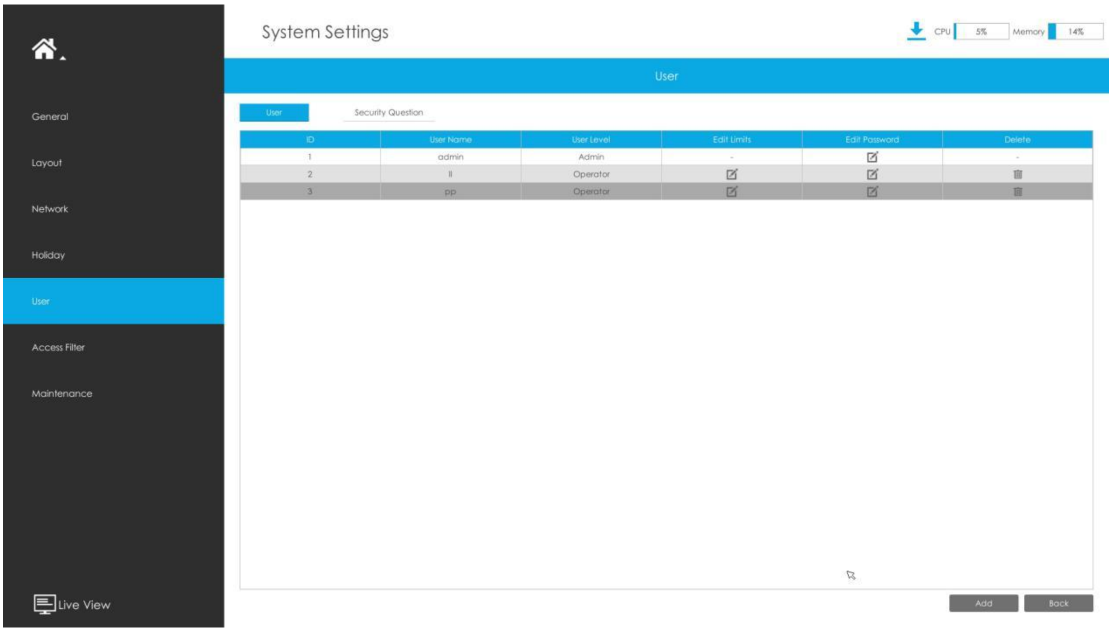
Click ✎ to edit holiday information, including Holiday Name, Holiday Enable, Style, Start Date and End Date. Then click OK to save the configuration.



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

* Holiday schedule takes precedence over other schedules.

3.9.5 User



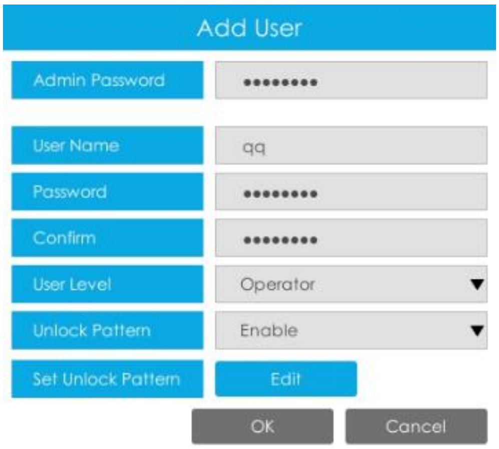
ID	User Name	User Level	Edit Limits	Edit Password	Delete
1	admin	Admin	-	✎	-
2	ll	Operator	✎	✎	🗑
3	pp	Operator	✎	✎	🗑

Note:

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

Add a new user

Click Add, then input user information and click OK to add a new user.


Add User

Admin Password: ••••••••

User Name: qq

Password: ••••••••

Confirm: ••••••••

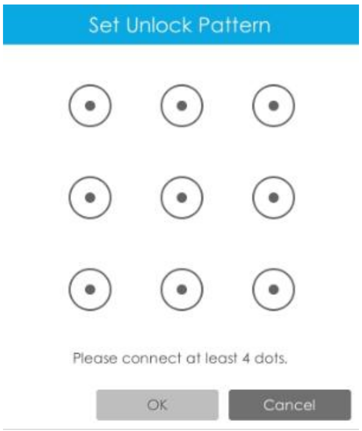
User Level: Operator

Unlock Pattern: Enable

Set Unlock Pattern: Edit

Note:

1. The user name can only contain letters and number. There are two user levels with different authority: Operator and Viewer.
2. You can click Edit to set Unlock Pattern after enabling Unlock Pattern.


Set Unlock Pattern

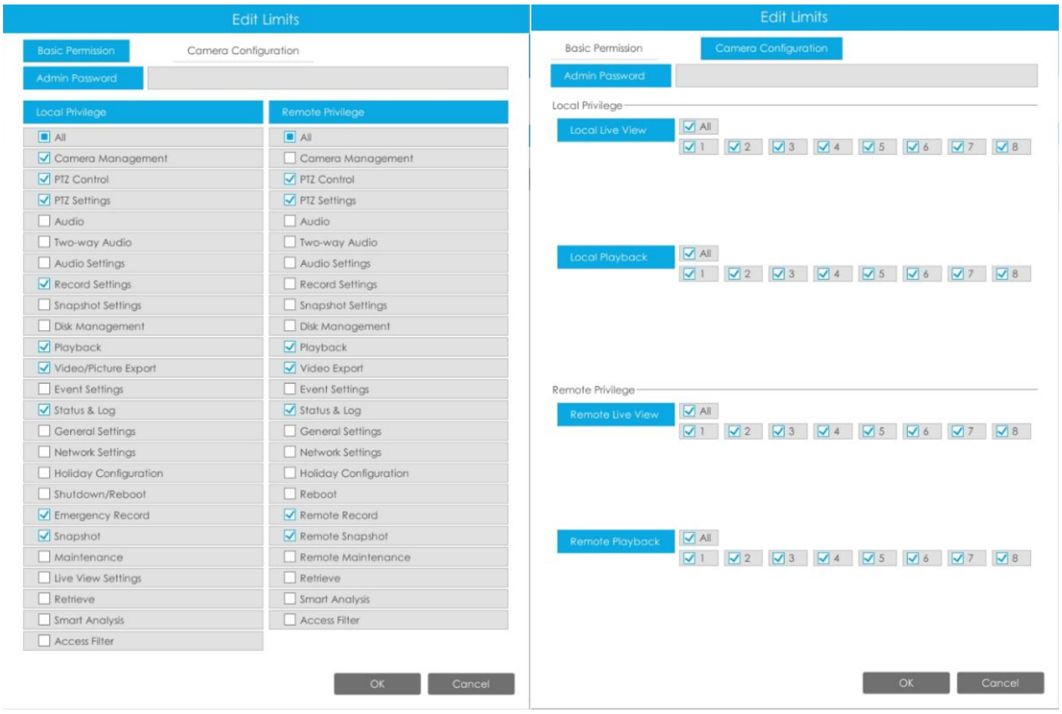
Please connect at least 4 dots.

Edit user limits

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

① Local Privilege means that the privilege to the monitor connected with NVR.

② Remote Privilege means that the privilege to web settings.



Local Privilege	Remote Privilege
■ All	■ All
☑ Camera Management	☐ Camera Management
☑ PTZ Control	☑ PTZ Control
☑ PTZ Settings	☑ PTZ Settings
☐ Audio	☐ Audio
☐ Two-way Audio	☐ Two-way Audio
☐ Audio Settings	☐ Audio Settings
☑ Record Settings	☐ Record Settings
☐ Snapshot Settings	☐ Snapshot Settings
☐ Disk Management	☐ Disk Management
☑ Playback	☑ Playback
☑ Video/Picture Export	☑ Video Export
☐ Event Settings	☐ Event Settings
☑ Status & Log	☑ Status & Log
☐ General Settings	☐ General Settings
☐ Network Settings	☐ Network Settings
☐ Holiday Configuration	☐ Holiday Configuration
☐ Shutdown/Reboot	☐ Reboot
☑ Emergency Record	☑ Remote Record
☑ Snapshot	☑ Remote Snapshot
☐ Maintenance	☐ Remote Maintenance
☐ Live View Settings	☐ Retrieve
☐ Retrieve	☐ Smart Analysis
☐ Smart Analysis	☐ Access Filter
☐ Access Filter	

Local Privilege

Local Live View: ☑ All ☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

Local Playback: ☑ All ☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

Remote Privilege

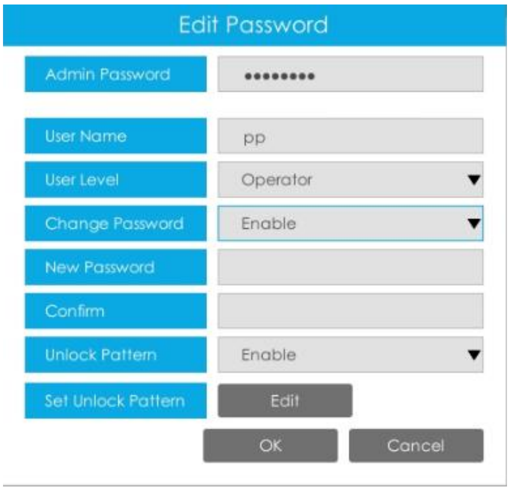
Remote Live View: ☑ All ☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

Remote Playback: ☑ All ☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

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.



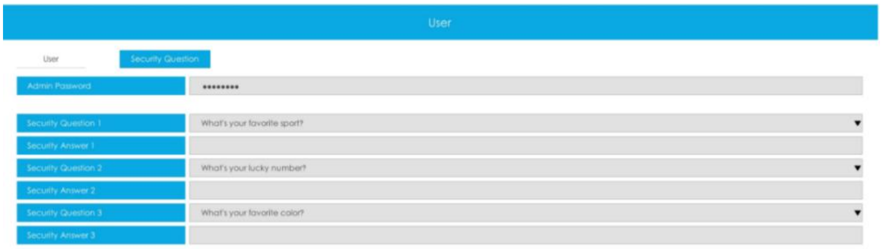
Admin Password	••••••••
User Name	pp
User Level	Operator
Change Password	Enable
New Password	
Confirm	
Unlock Pattern	Enable
Set Unlock Pattern	Edit

Delete user

Select a user and click 🗑 to delete a user.

Modify Security Question

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



Admin Password: ••••••••

Security Question 1: What's your favorite sport?

Security Answer 1:

Security Question 2: What's your lucky number?

Security Answer 2:

Security Question 3: What's your favorite color?

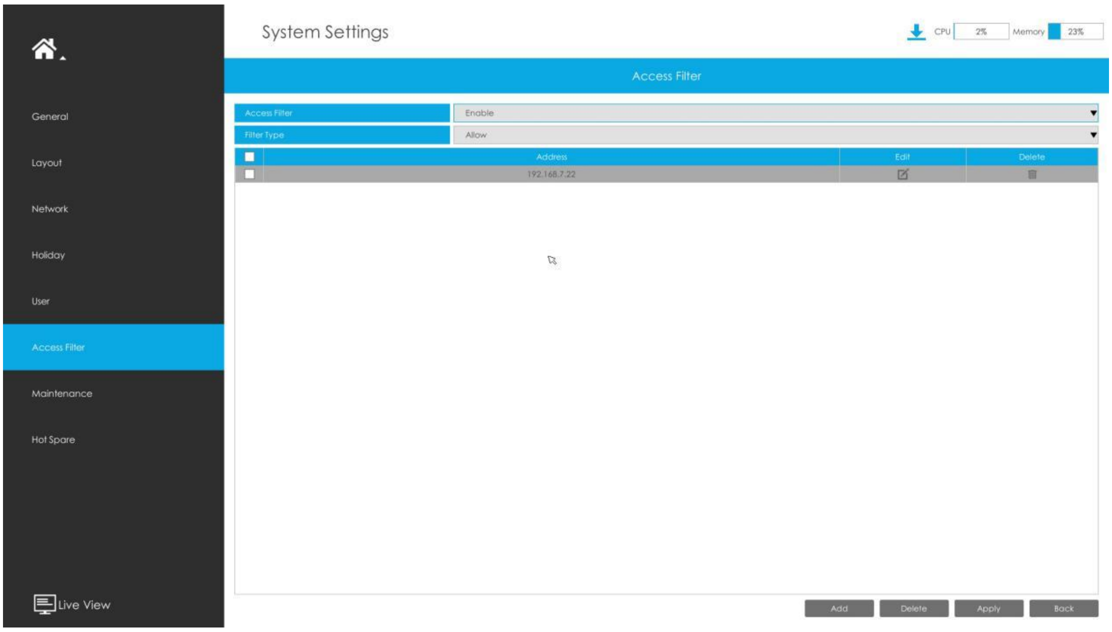
Security Answer 3:

Note:

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

3.9.6 Access Filter

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



Access Filter: Enable

Filter Type: Allow

☐	Address	Edit	Delete
☐	192.168.7.22		

Step 1. Enable Access Filter.

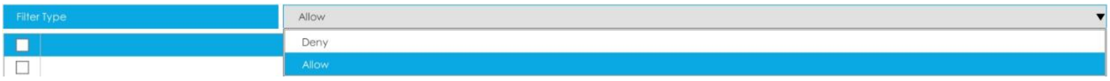
Access Filter: Enable

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.

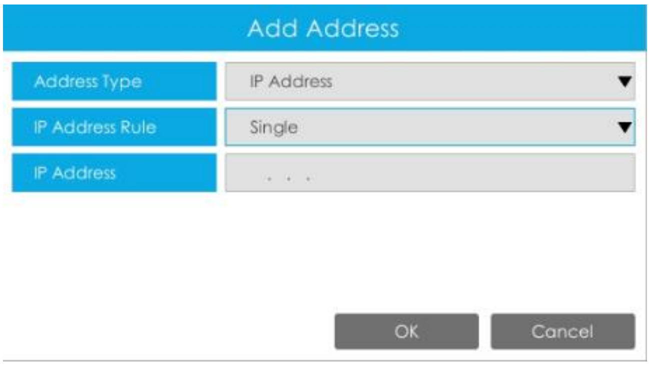


Filter Type: Allow

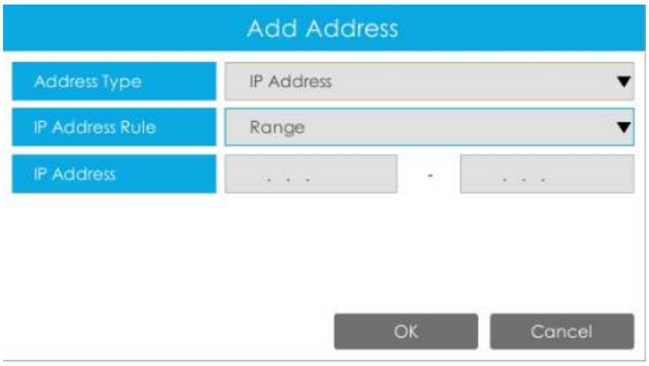
Step 3. Add Address.

Click Add to add device address. You can add the address via IP or MAC.

Method 1: Add the address via IP. You can choose the IP address rule according to your needs. There are two rules: Single and Range.

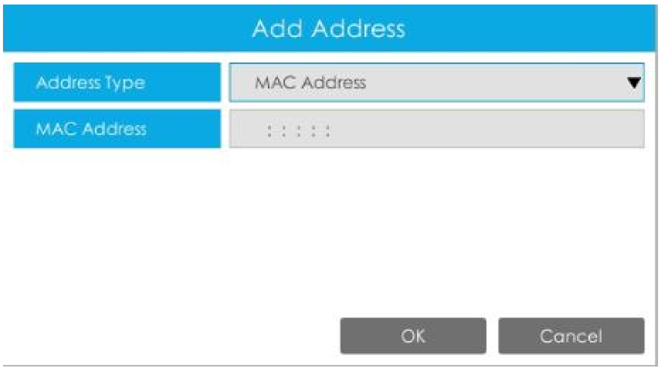


Address Type: IP Address
IP Address Rule: Single
IP Address: . . .



Address Type: IP Address
IP Address Rule: Range
IP Address: . . . - . . .

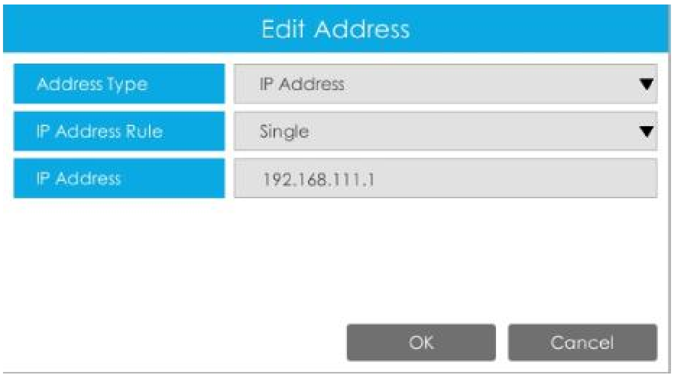
Method 2: Add the address via MAC.



Address Type: MAC Address
MAC Address: : : : : :

Step 4. Then click Apply **to make Access Filter effective.**

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



Address Type: IP Address
IP Address Rule: Single
IP Address: 192.168.111.1

Note:

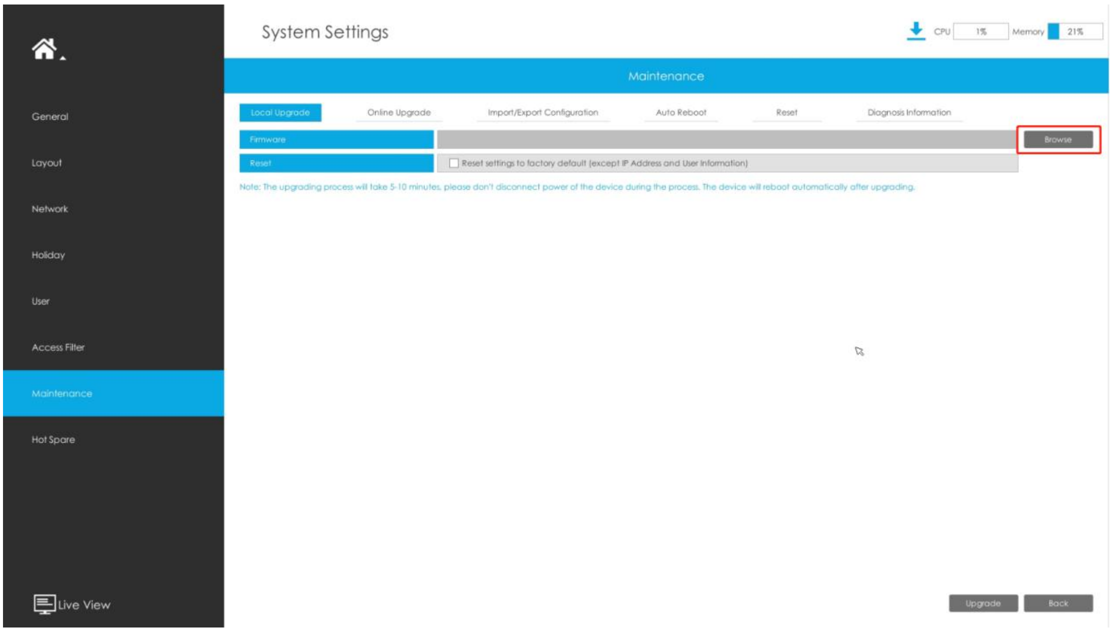
① If Access Filter is enabled and Filter type is Allow, but no address is added to the table, then no address is allowed to Access the NVR.

② If Access Filter is enabled and Filter type is Deny, but no address is added to the table, then all addresses are allowed to Access the NVR.

3.9.7 Maintenance

Local Upgrade

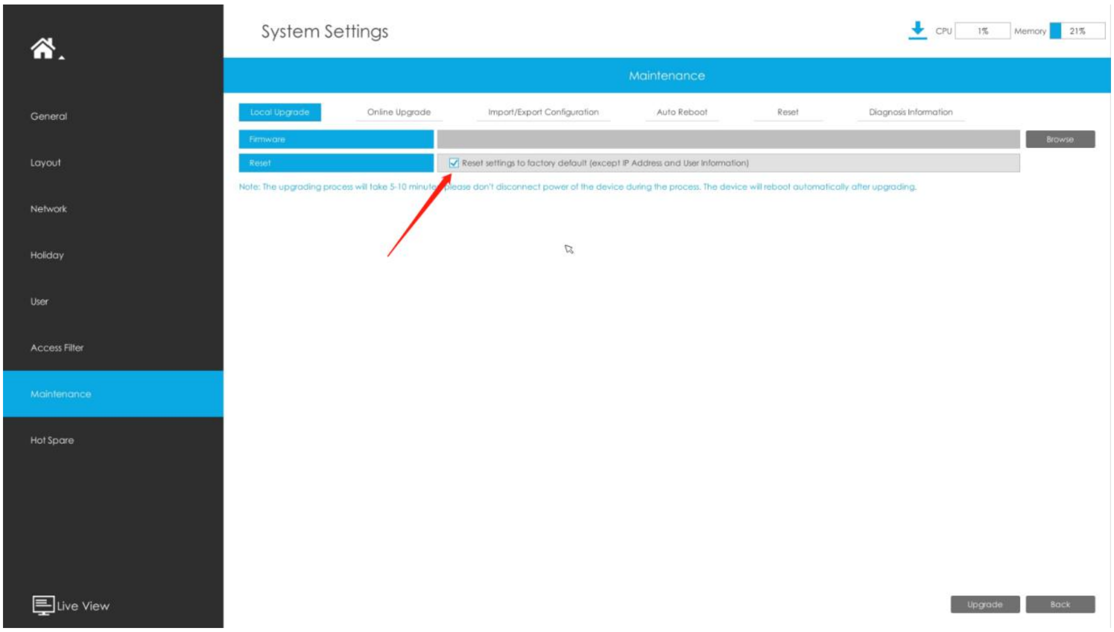
Step 1. Click Browse and select the corresponding firmware you downloaded in your USB;



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

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.

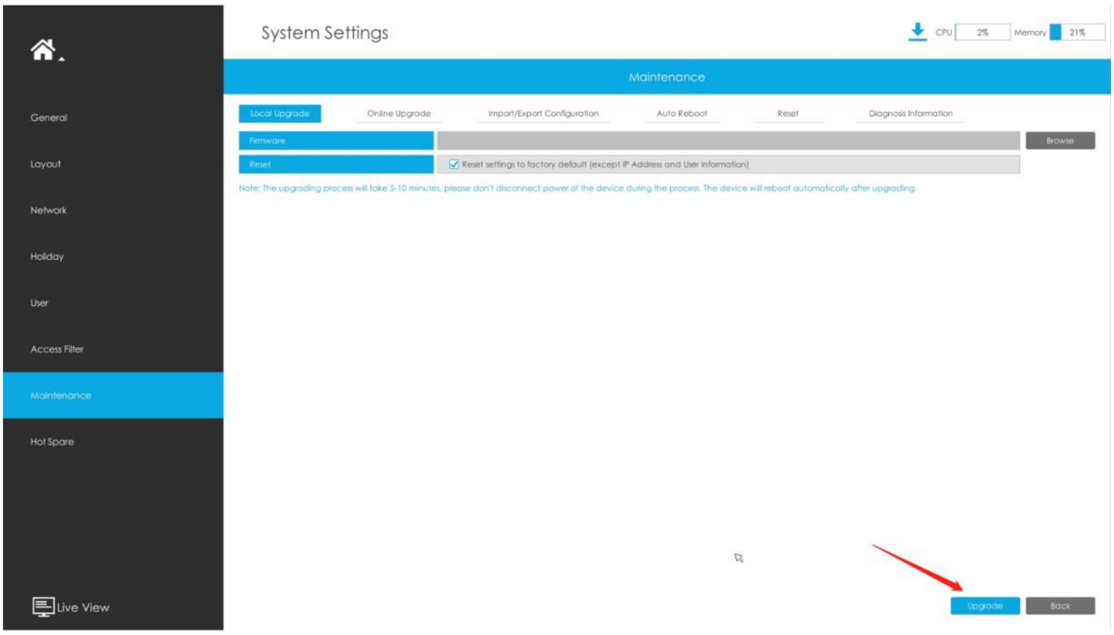
Step 2. Check if you need to reset settings to factory default (except IP Address and User Information) after upgrade;



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

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.

Step 3. Click Upgrade to confirm the upgrade.



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

Note: The upgrading process will take 5-10 minutes, please don't disconnect power of the device during the process. The device will reboot automatically after upgrading.

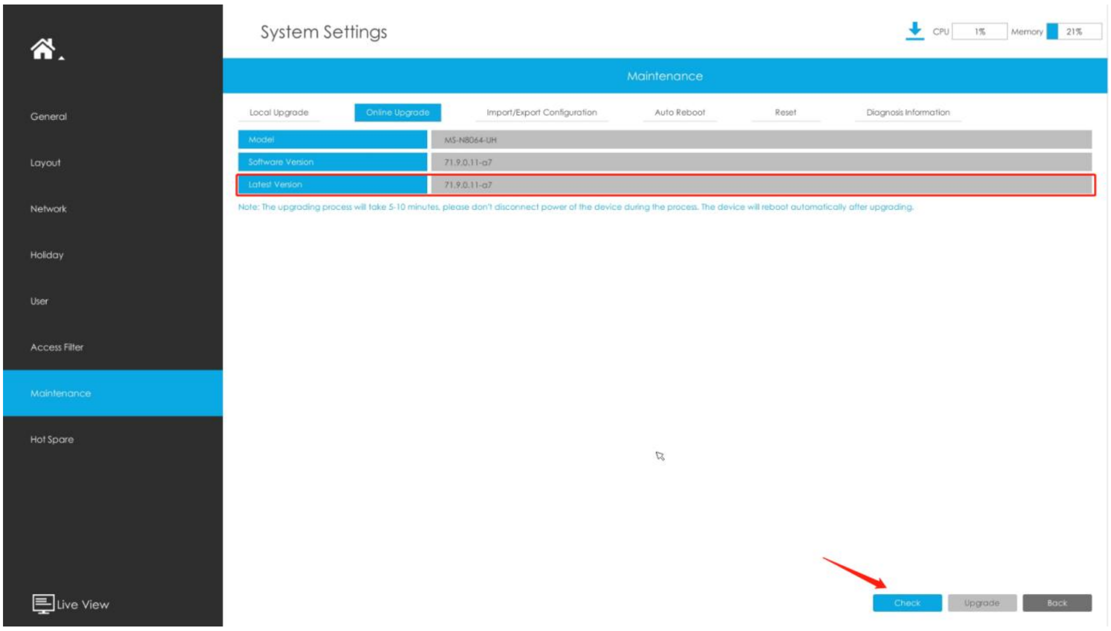
Note:

The system will auto reboot after confirming upgrade.

Online Upgrade

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

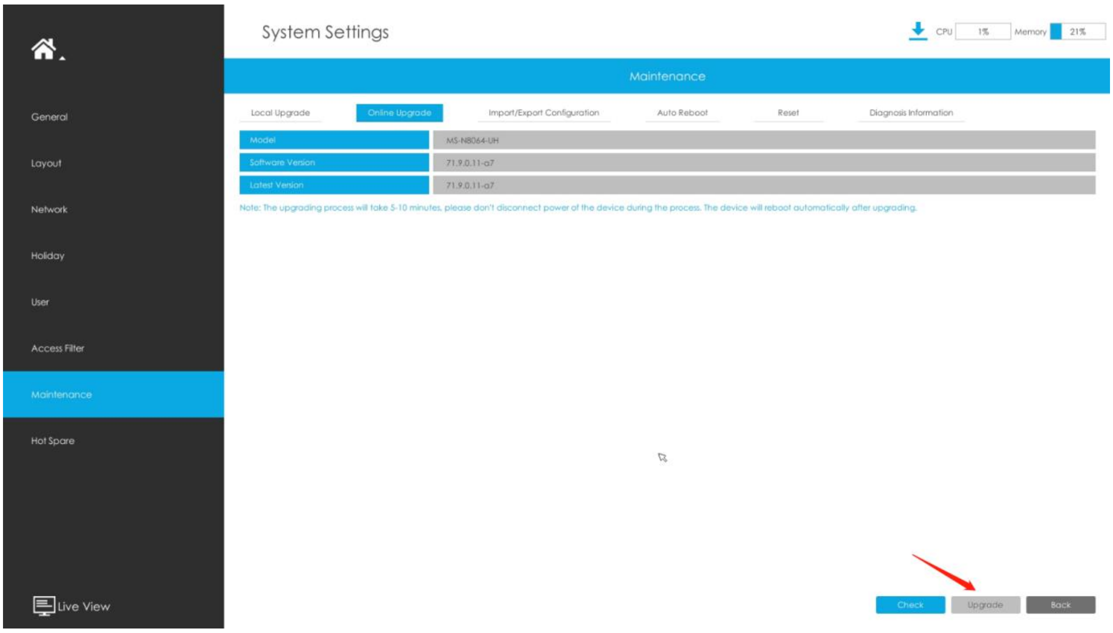
If there is a new version, the Latest Version column will display corresponding information.



Model: MS-N8064-UH
Software Version: 71.9.0.11-a7
Latest 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.

Step 2. Click Upgrade to confirm the upgrade.



Model: MS-N8064-UH

Software Version: 71.9.0.11-a7

Latest 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.

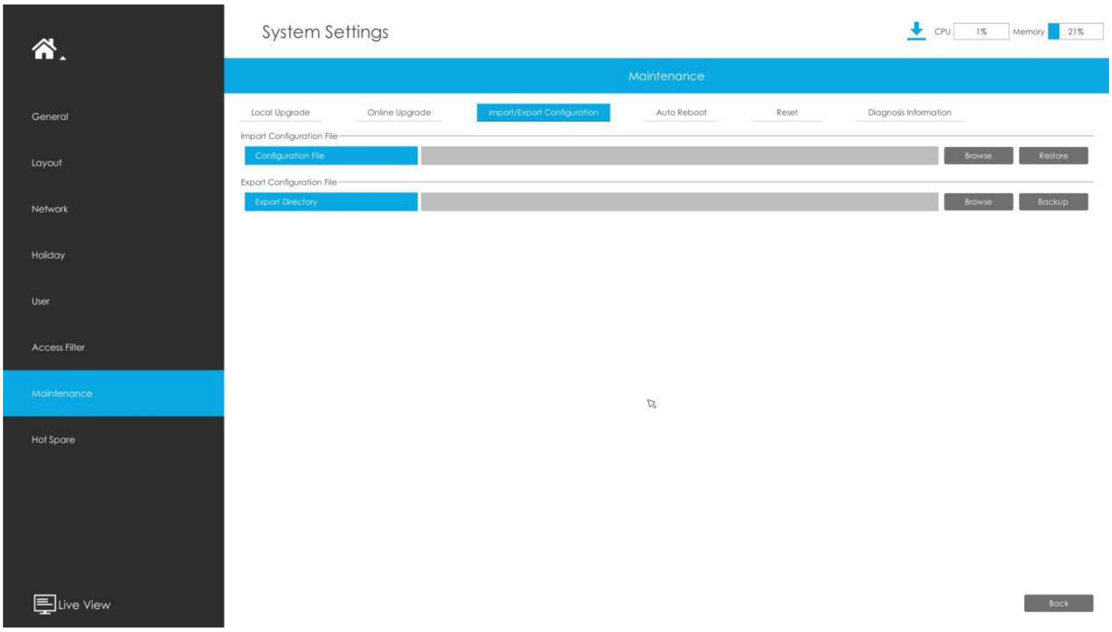
Note:

The system will auto reboot after confirming upgrade.

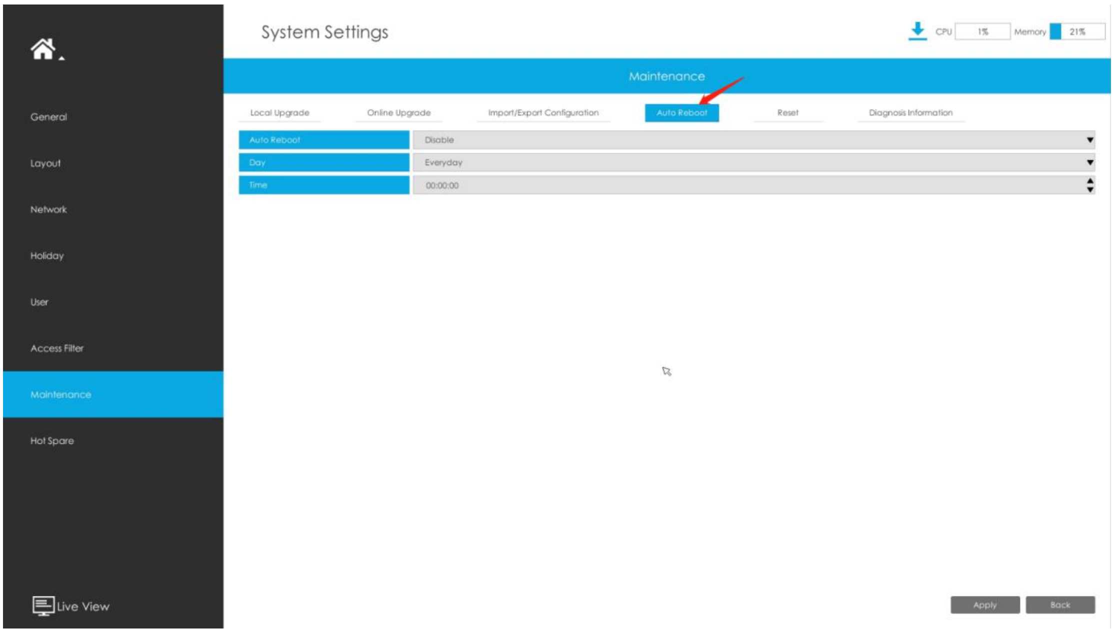
Import/Export Configuration

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.



Auto Reboot



Auto Reboot: Disable
Day: Everyday
Time: 00:00:00

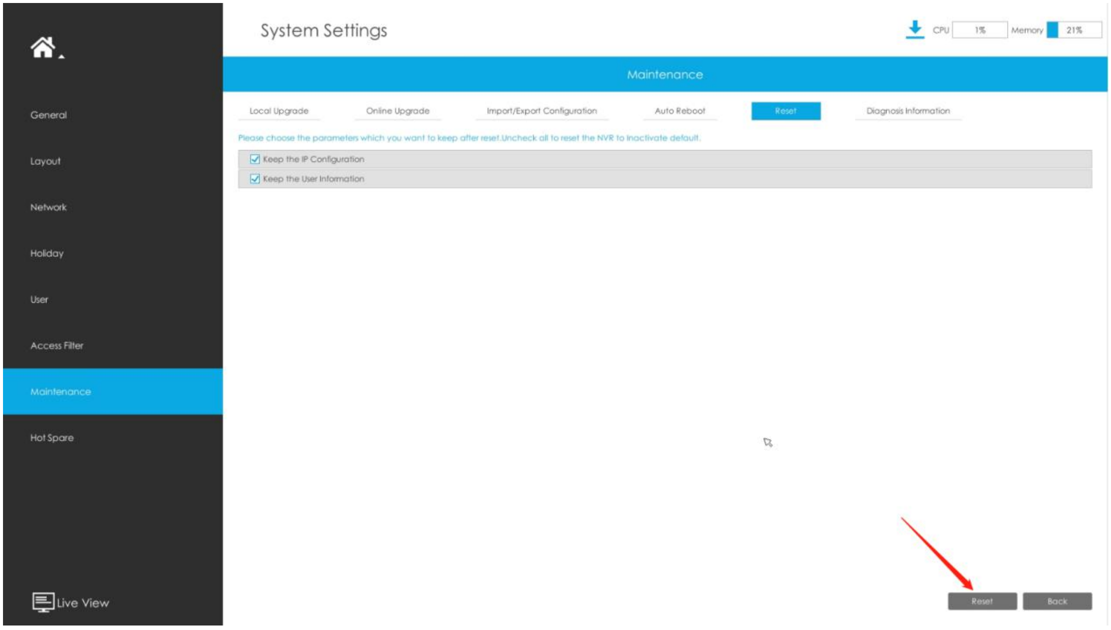
You can set day and time for reboot, and **the NVR will reboot automatically at the time you set.**

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.

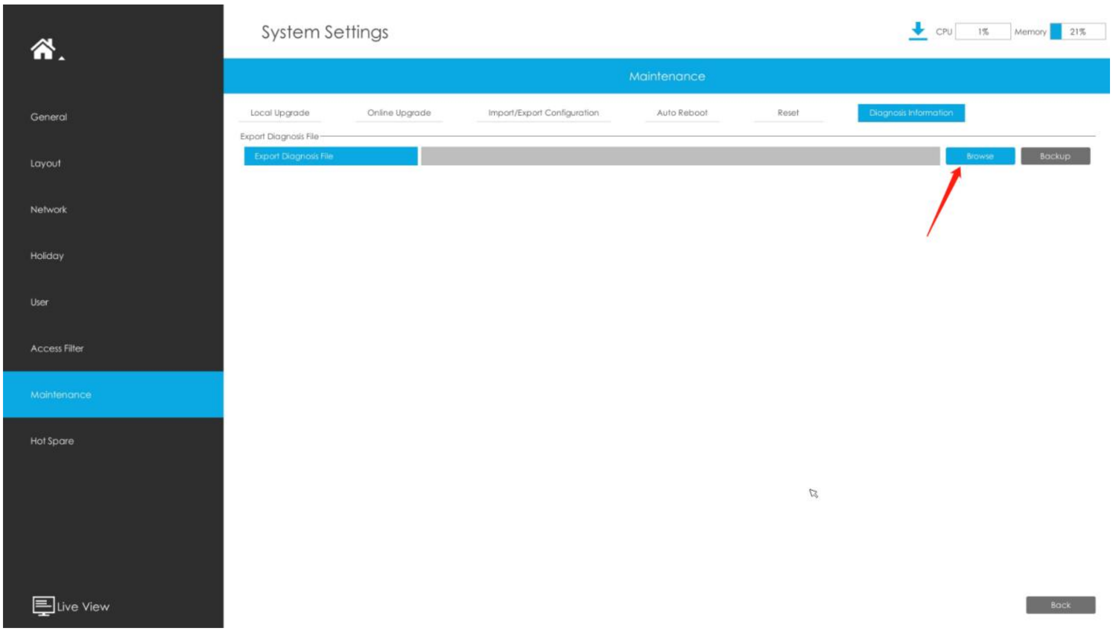


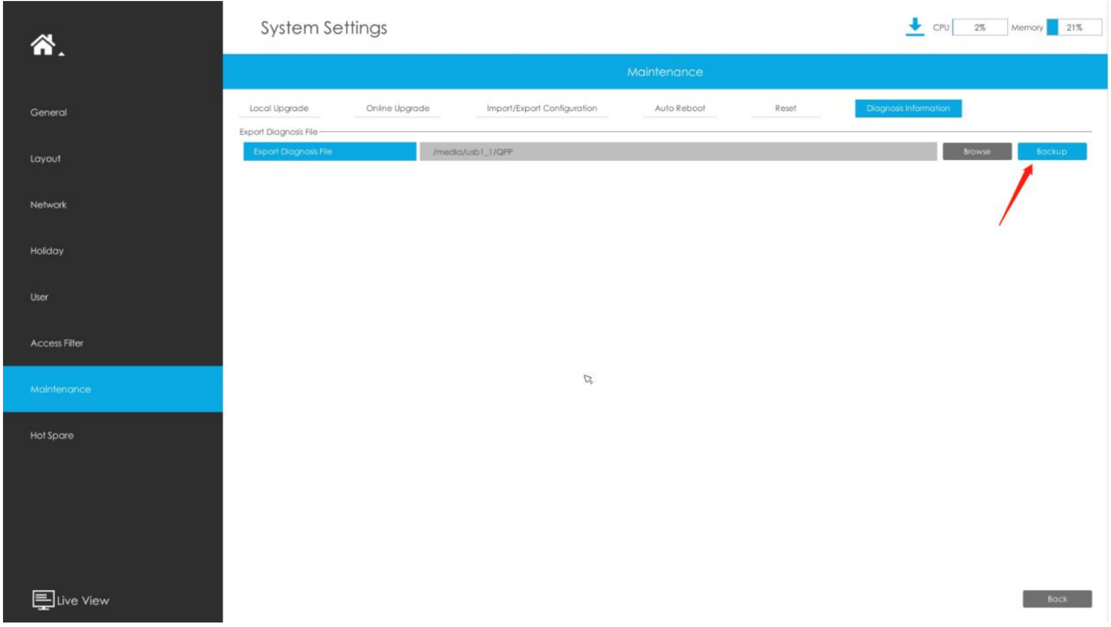
Please choose the parameters which you want to keep after reset.Uncheck all to reset the NVR to inactivate default.

☑ Keep the IP Configuration
☑ Keep the User Information

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.





/media/usb1_1/QPP

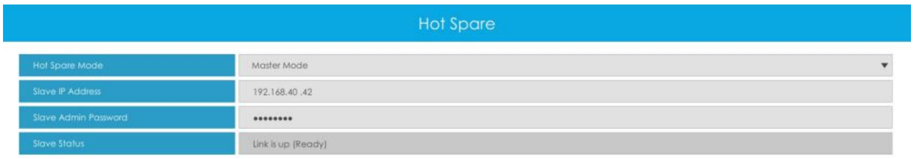
3.9.8 Hot Spare

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

Master Mode:

Step 1: Select Master Mode as Hot Spare Mode.

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



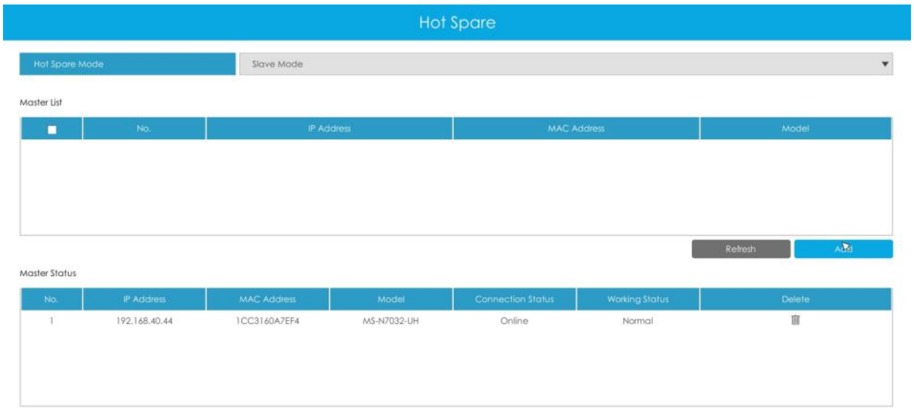
Hot Spare

Hot Spare Mode	Master Mode
Slave IP Address	192.168.40 .42
Slave Admin Password	••••••••
Slave Status	Link is up (Ready)

Slave Mode:

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

Step 2: Add Master which is up to 32.



Hot Spare

Hot Spare Mode	Slave Mode

Master List

☐	No.	IP Address	MAC Address	Model

Master Status

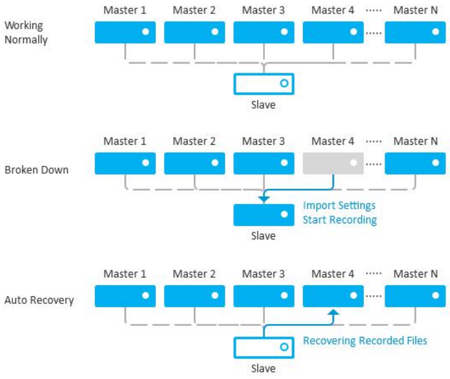
No.	IP Address	MAC Address	Model	Connection Status	Working Status	Delete
1	192.168.40.44	1CC3160A7EF4	MS-N7032-UH	Online	Normal	🗑

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:

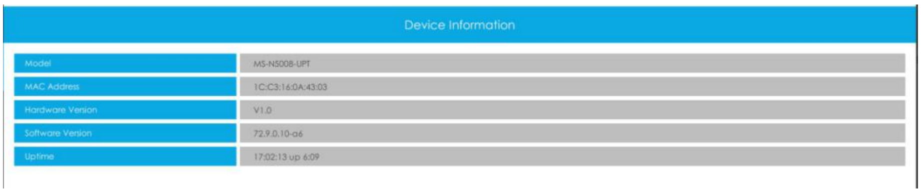
1. Only MS-N7016-UH, MS-N7032-UH, MS-N8032-UH and MS-N8064-UH support N+1 Hot Spare function.
2. It is recommended to set Master NVR and Slave NVR up with the same NVR model.

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, Hardware Version, Software Version, and Uptime.

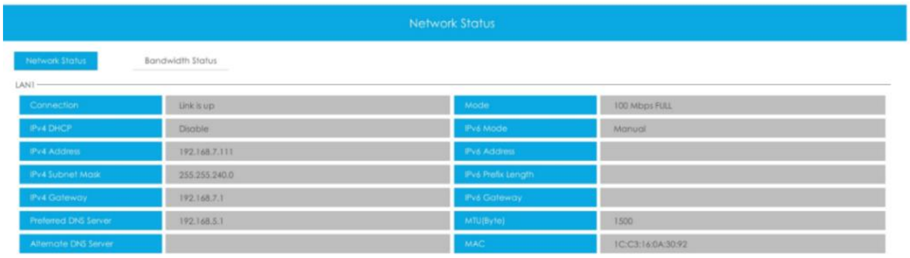


Model	MS-N5008-UPT
MAC Address	1C:C3:16:0A:43:03
Hardware Version	V1.0
Software Version	72.9.0.10-a6
Uptime	17:02:13 up 6:09

3.10.2 Network Status

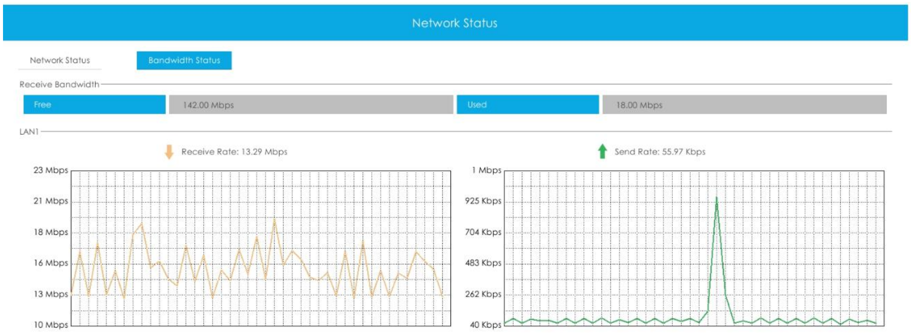
Network Status includes three main parts: Network Status and Bandwidth Status.

Network Status



Connection	Link is up	Mode	100 Mbps FULL
IPv4 DHCP	Disable	IPv6 Mode	Manual
IPv4 Address	192.168.7.111	IPv6 Address	
IPv4 Subnet Mask	255.255.240.0	IPv6 Prefix Length	
IPv4 Gateway	192.168.7.1	IPv6 Gateway	
Preferred DNS Server	192.168.5.1	MTU(Byte)	1500
Alternate DNS Server		MAC	1C:C3:16:0A:30:92

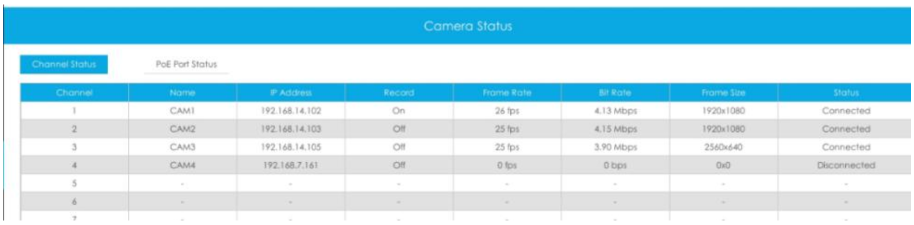
Bandwidth Status



Free	142.00 Mbps	Used	18.00 Mbps

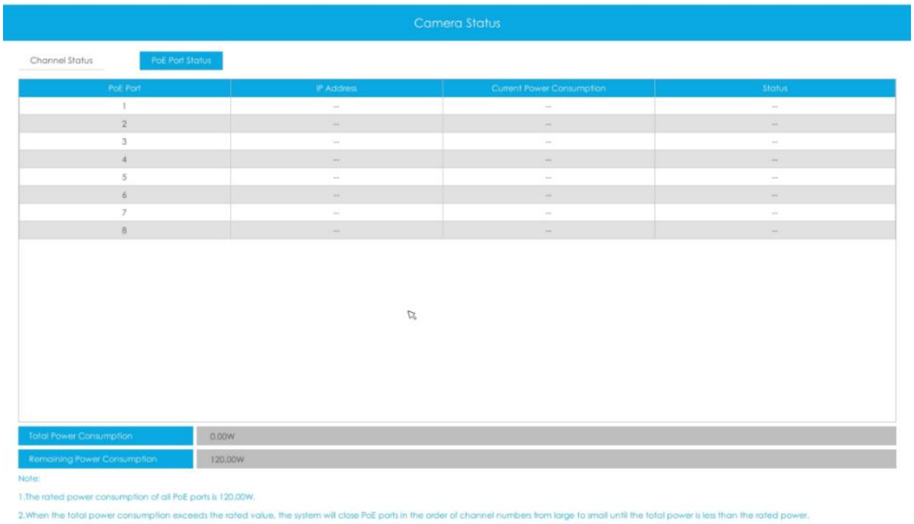
3.10.3 Camera Status

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



Channel	Name	IP Address	Record	Frame Rate	Bit Rate	Frame Size	Status
1	CAM1	192.168.14.102	On	26 fps	4.13 Mbps	1920x1080	Connected
2	CAM2	192.168.14.103	Off	25 fps	4.15 Mbps	1920x1080	Connected
3	CAM3	192.168.14.105	Off	25 fps	3.90 Mbps	2560x640	Connected
4	CAM4	192.168.7.161	Off	0 fps	0 bps	0x0	Disconnected
5	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-

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



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:

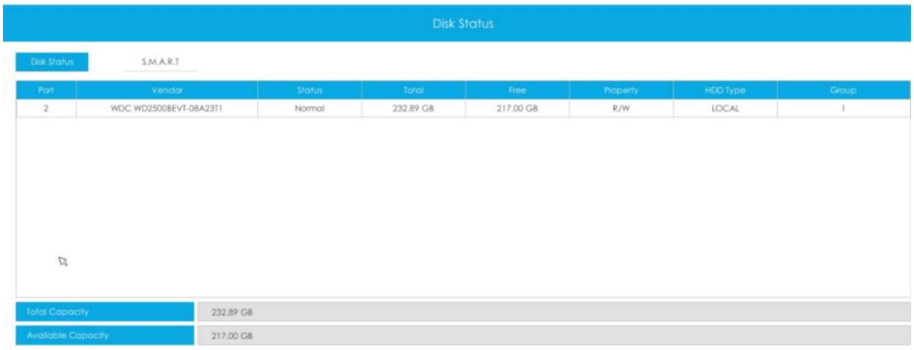
1.The rated power consumption of all PoE ports is 120.00W.

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.



Port	Vendor	Status	Total	Free	Property	HDD Type	Group
2	WDC WD2500BEVT-08A23T1	Normal	232.89 GB	217.00 GB	R/W	LOCAL	1

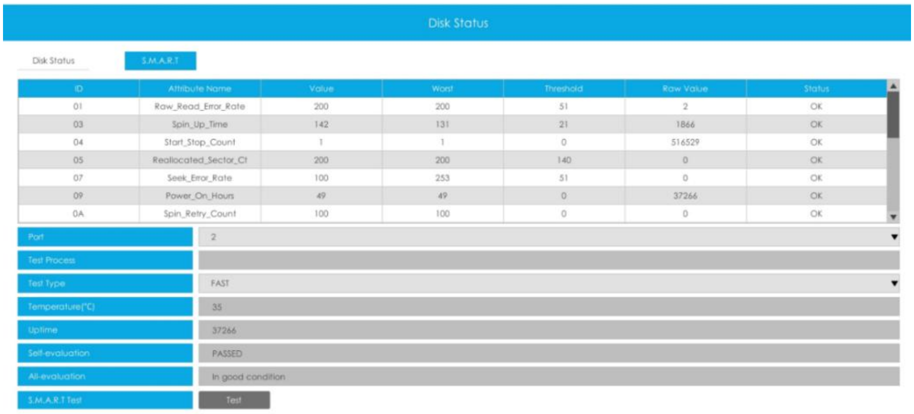
Total Capacity	232.89 GB
Available Capacity	217.00 GB

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.



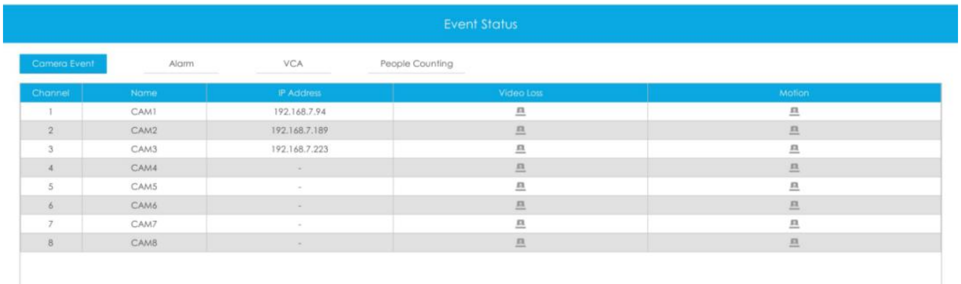
ID	Attribute Name	Value	Worst	Threshold	Raw Value	Status
01	Raw_Read_Error_Rate	200	200	51	2	OK
03	Spin_Up_Time	142	131	21	1866	OK
04	Start_Stop_Count	1	1	0	516529	OK
05	Reallocated_Sector_Ct	200	200	140	0	OK
07	Seek_Error_Rate	100	253	51	0	OK
09	Power_On_Hours	49	49	0	37266	OK
0A	Spin_Retry_Count	100	100	0	0	OK

Port	2
Test Process	
Test Type	FAST
Temperature(°C)	35
Uptime	37266
Self-evaluation	PASSED
All-evaluation	In good condition
S.M.A.R.T Test	Test

3.10.5 Event Status

Camera Event

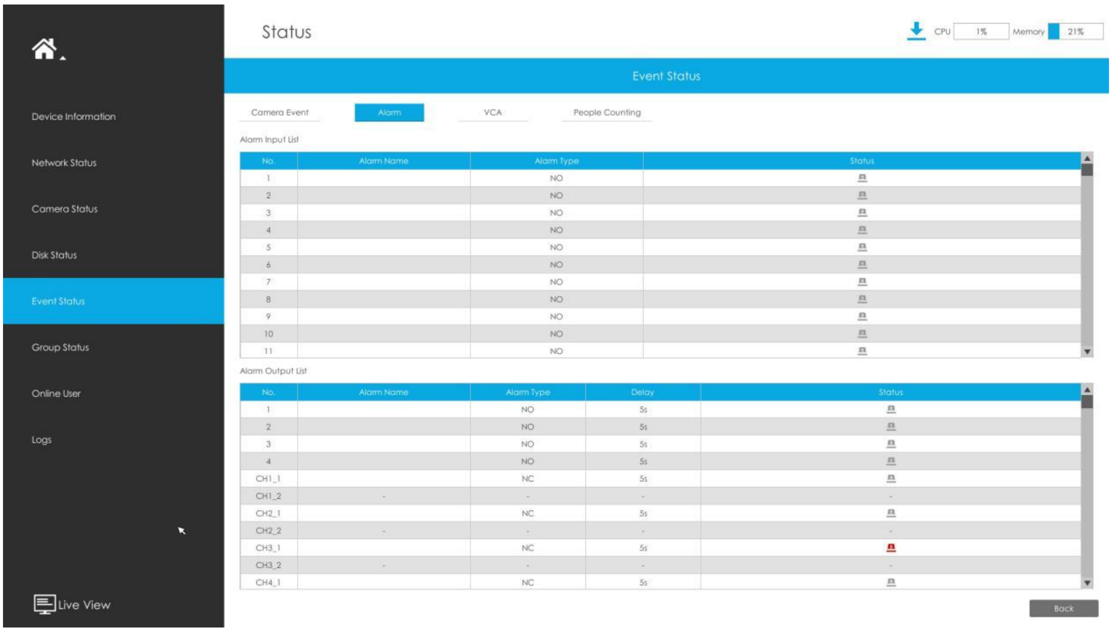
The user can check Camera Event here, including Video Loss, Motion and I/O. 🚨 will turn into 🚨 when the corresponding alarm is triggered.



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.



Alarm Input List

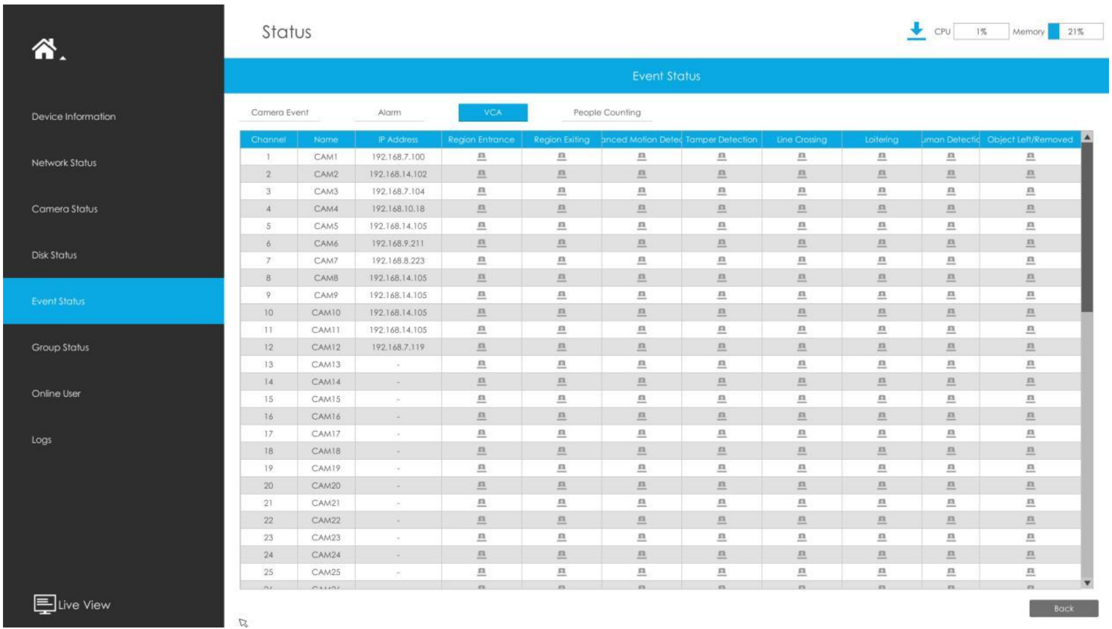
No.	Alarm Name	Alarm Type	Status
1		NO	▣
2		NO	▣
3		NO	▣
4		NO	▣
5		NO	▣
6		NO	▣
7		NO	▣
8		NO	▣
9		NO	▣
10		NO	▣
11		NO	▣

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

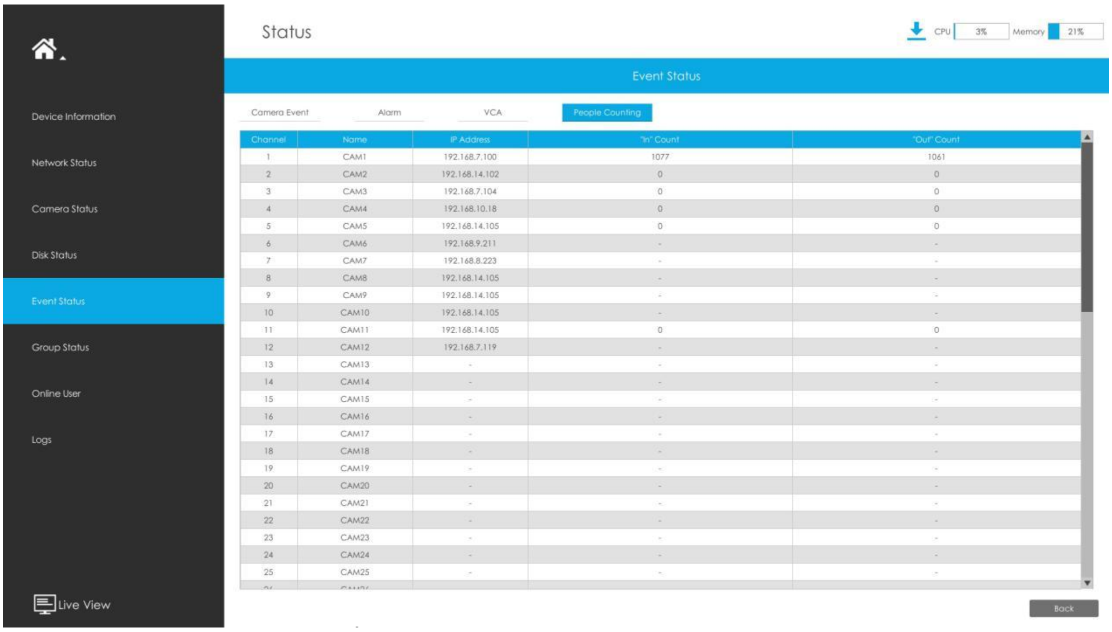
It shows the VCA status. ▣ will turn into 🟥 when alarm is triggered.



Channel	Name	IP Address	Region Entrance	Region Exiting	ənced Motion Detec	Tamper Detection	Line Crossing	Loitering	ɹman Detectic	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

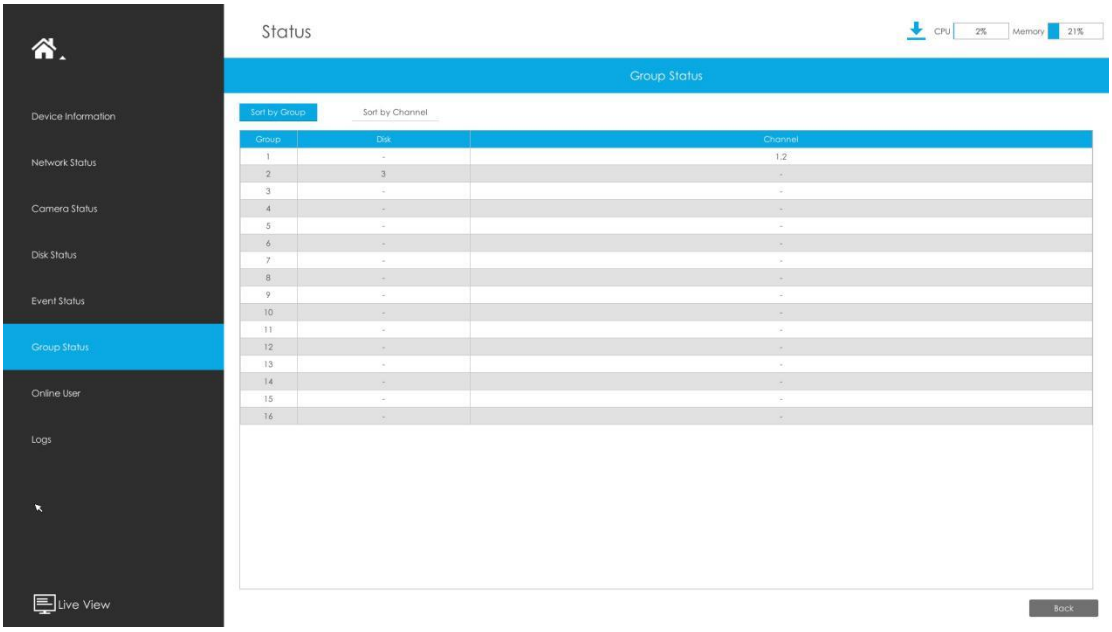
It shows every camera’s current In/Out number of people counting.



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

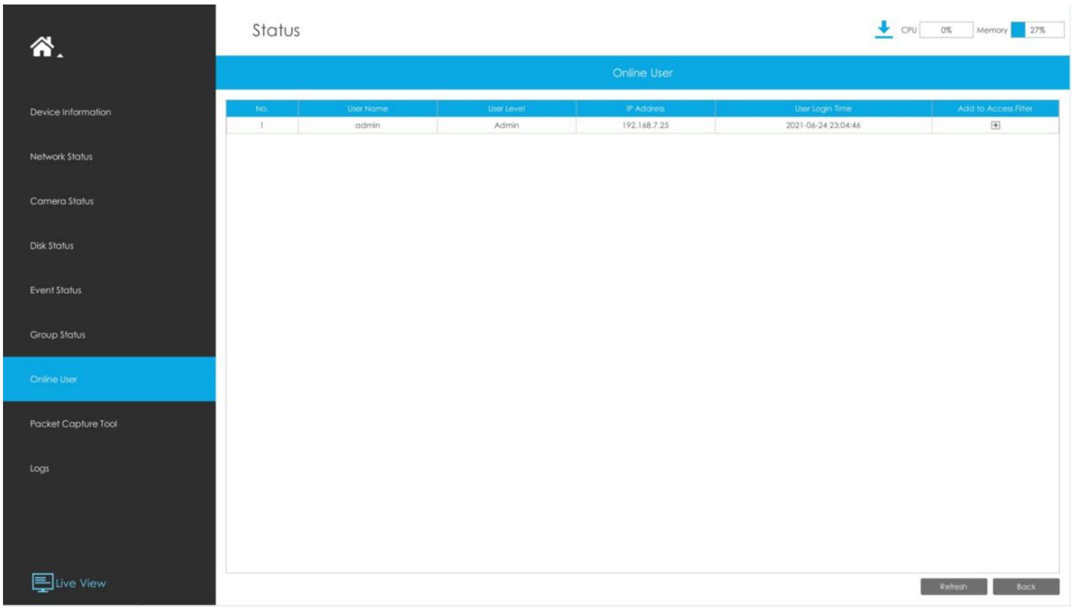
Check Group Status. The status of the all created Groups can be sorted by Group or Channel.



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

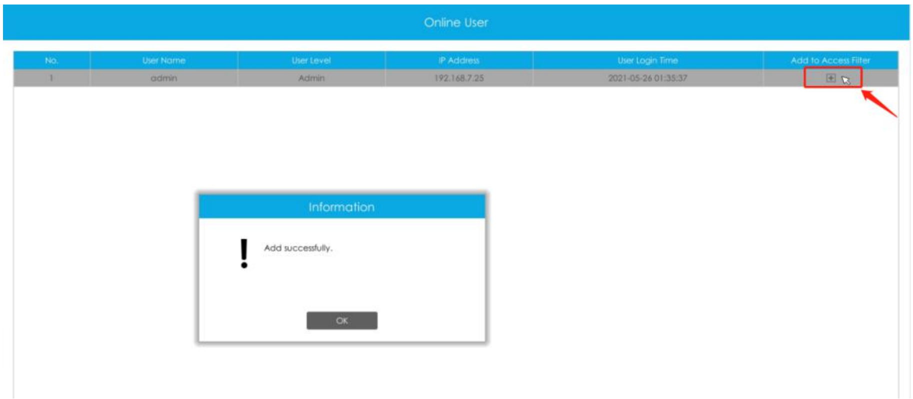
Users who are remotely connecting to the NVR in real time can be listed in Online users interface. The list includes User Name, User Level, IP Address and User Login Time.



Online User

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	⊞

The IP address can be added to Access Filter interface from Online User interface directly.



Online User

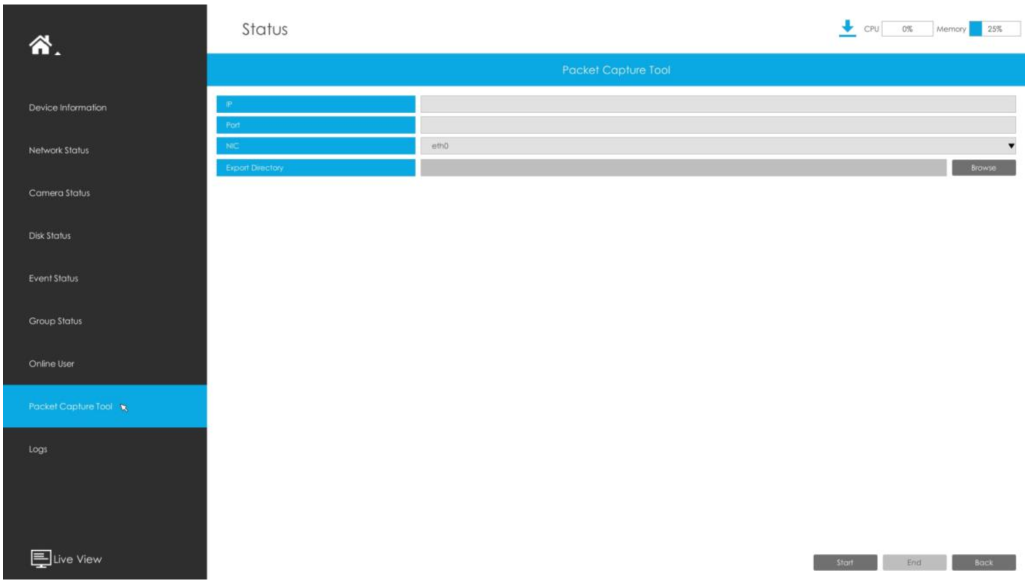
No.	User Name	User Level	IP Address	User Login Time	Add to Access Filter
1	admin	Admin	192.168.7.25	2021-05-26 01:35:37	⊞

Information

Add successfully.

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.



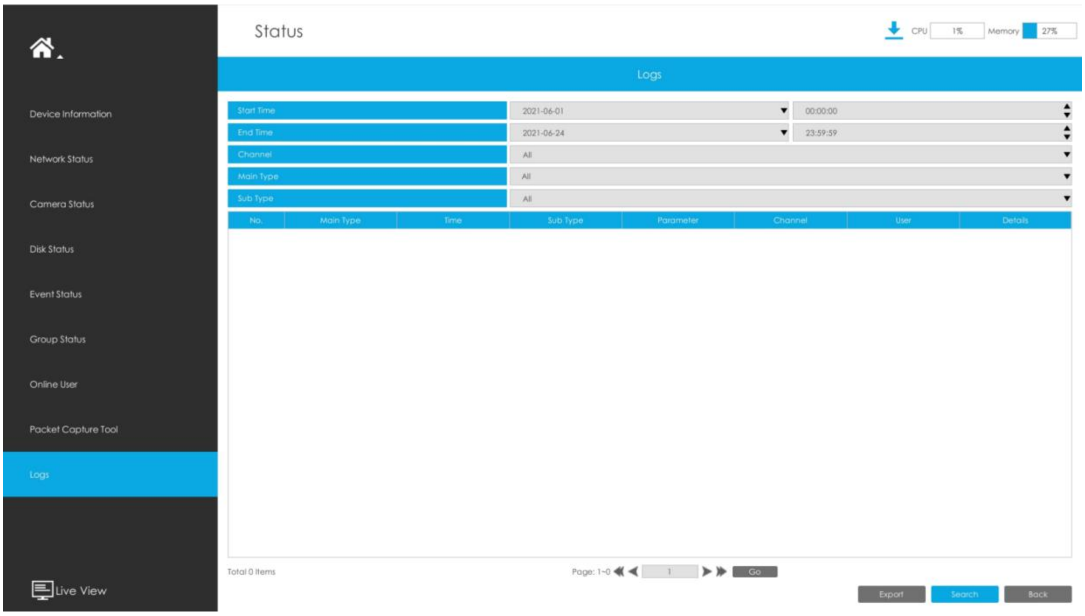
CPU 0%
Memory 25%
IP
Port
NIC eth0
Export Directory

Note:

It is recommended to capture packets not more than 3 minutes on the local monitor side.

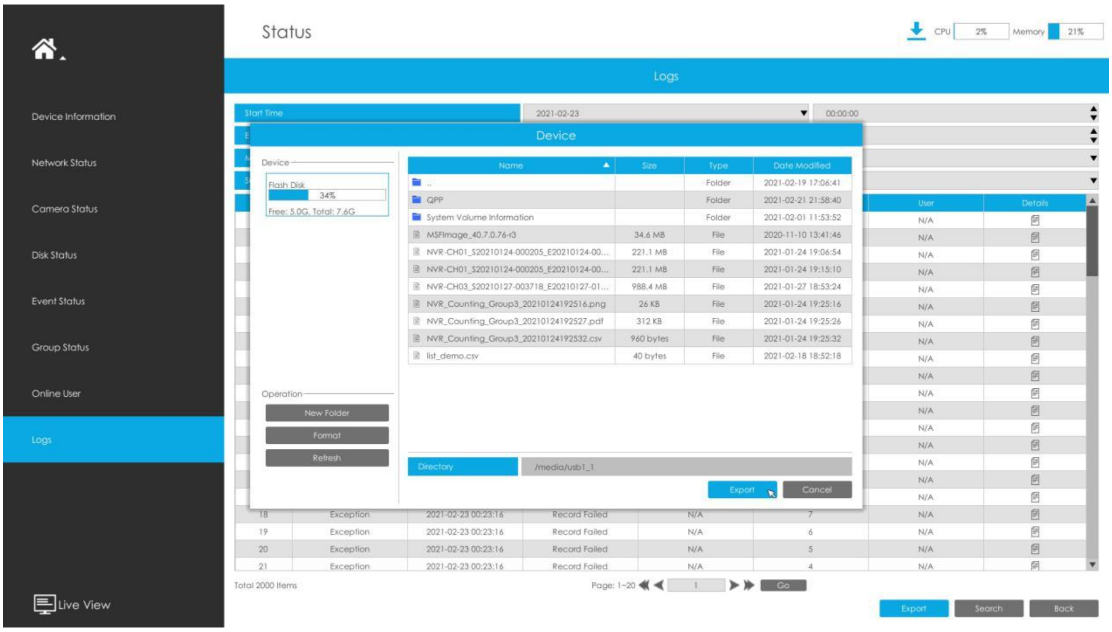
3.10.9 Logs

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.



CPU 1%
Memory 27%
Start Time 2021-06-01 00:00:00
End Time 2021-06-24 23:59:59
Channel All
Main Type All
Sub Type All
Total 0 Items
Page: 1-0 1

Click Export to export searched logs to media device.



Start Time: 2021-02-23 00:00:00

Device: Flash Disk 34% Free: 5.0G, Total: 7.6G

Name	Size	Type	Date Modified
..		Folder	2021-02-19 17:06:41
QPP		Folder	2021-02-21 21:58:40
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
list_demo.csv	40 bytes	File	2021-02-18 18:52:18

Directory: /media/usb1_1

						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	

Total 2000 Items Page: 1~20 1

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

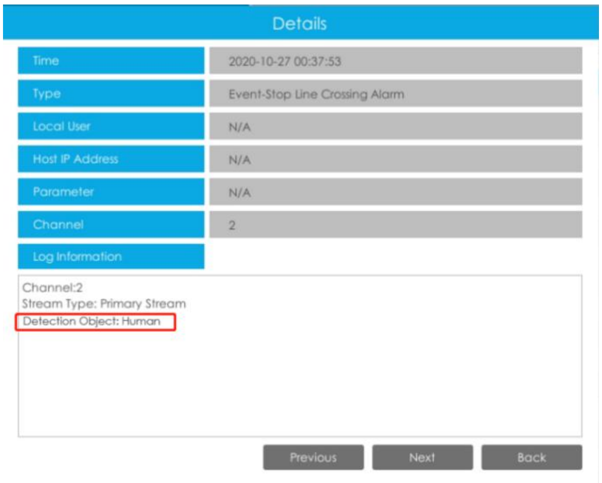
① Region Entrance

② Region Exiting

③ Advanced Motion Detection

④ Line Crossing

⑤ Loitering

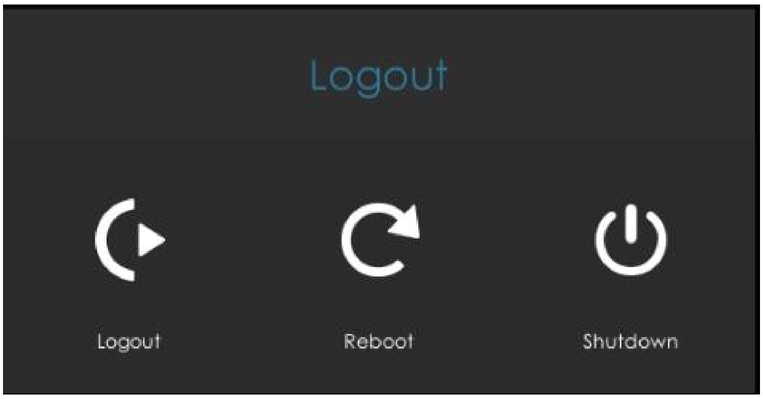


Time	2020-10-27 00:37:53
Type	Event-Stop Line Crossing Alarm
Local User	N/A
Host IP Address	N/A
Parameter	N/A
Channel	2

Log Information

Channel:2
Stream Type: Primary Stream
Detection Object: Human

3.11 Logout



Logout: Exit the current login account.

Reboot: Restart the NVR.

Shutdown: Close the NVR.

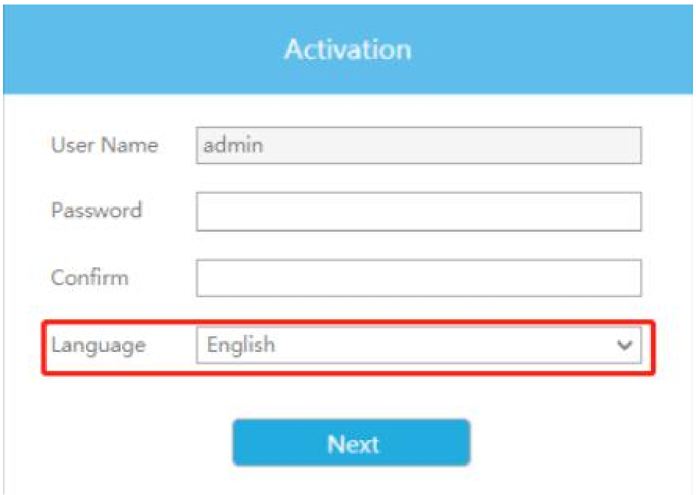
4.WEB Settings

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.



User Name: admin
Password:
Confirm:
Language: English

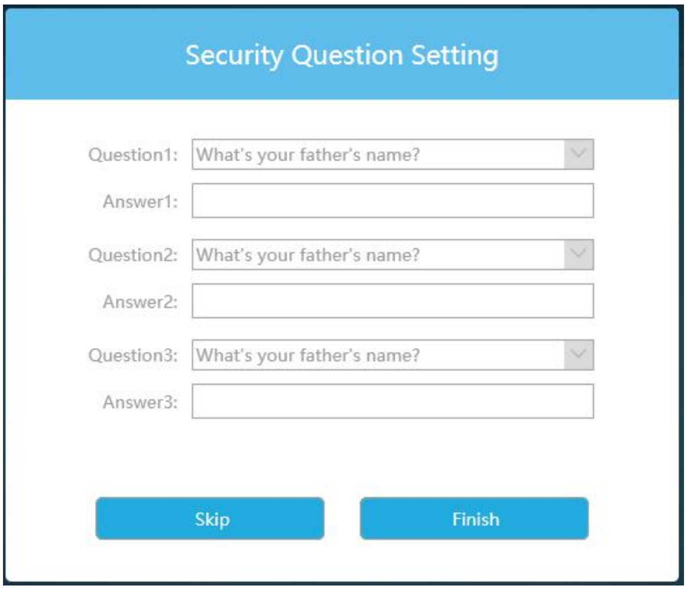
Note:

1. Password must be 8 to 32 characters long.
2. Password must contain at least one number and one letter.
3. You can also choose the system language on the activation interface.

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

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

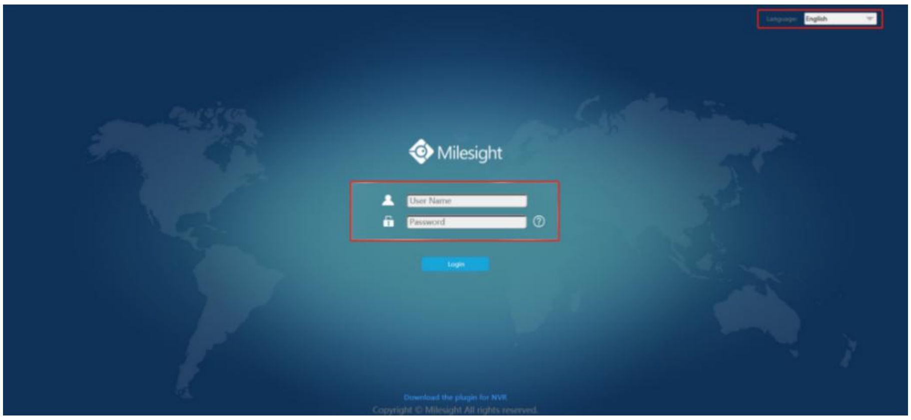
If you skip this step, you can also set it again in Setting -> User interface.



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

4.2 Login

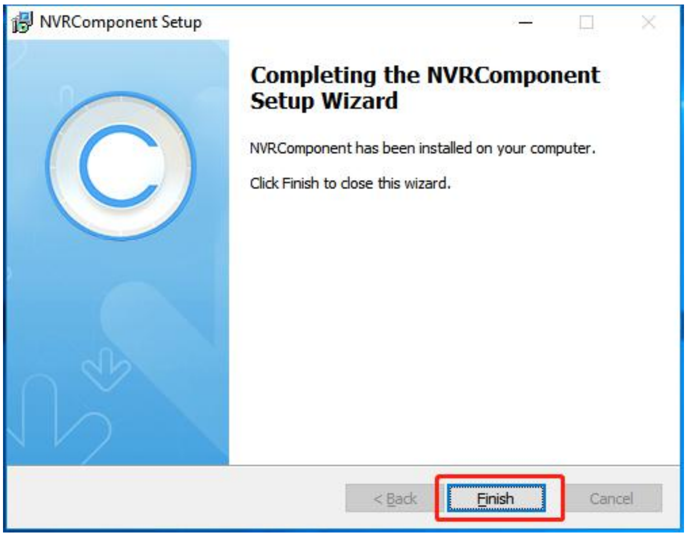
Select Language on the top-right of interface.
Input the user name, password and click Login to login NVR web page.


Language
English
Milesight
User Name
Password
Login
Download the plugin for NVR
Copyright © Milesight All rights reserved.

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.



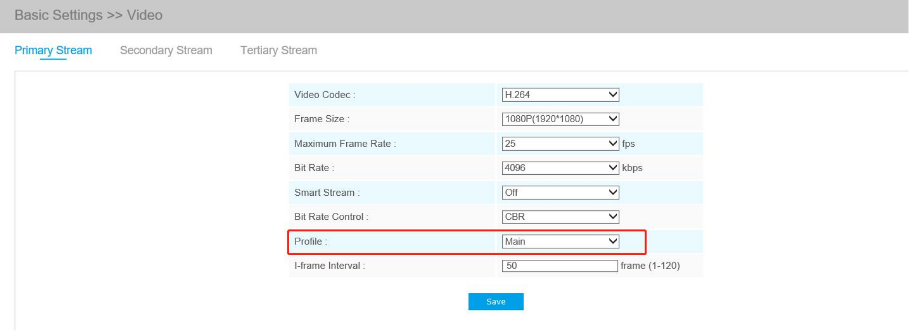
Completing the NVRComponent Setup Wizard

NVRComponent has been installed on your computer.

Click Finish to close this wizard.

Note:
During installing the plugin, please keep the browsers close.
If the firmware version of NVR is V7x.9.0.4 and above, you can preview the video on the browser without plugin in Plugin-Free mode.
1. For Windows system, Plugin-Free mode is supported in Chrome/Firefox/Microsoft Edge browser.
2. For MAC system, Plugin-Free mode is supported in Chrome/Firefox/Safari browser.

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

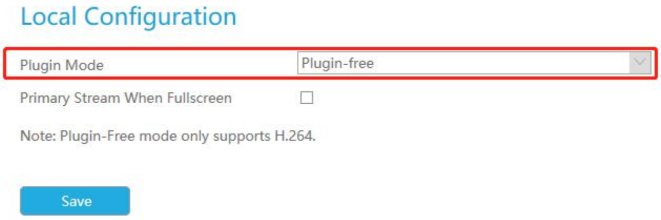


Basic Settings >> Video

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)

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.



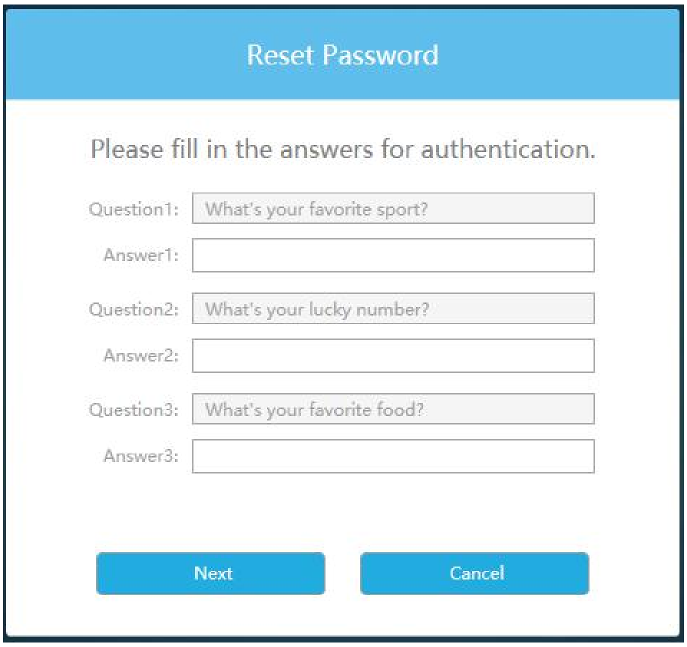
Local Configuration

Plugin Mode: Plugin-free

Primary Stream When Fullscreen ☐

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

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: What's your favorite sport?

Answer1:

Question2: What's your lucky number?

Answer2:

Question3: What's your favorite food?

Answer3:

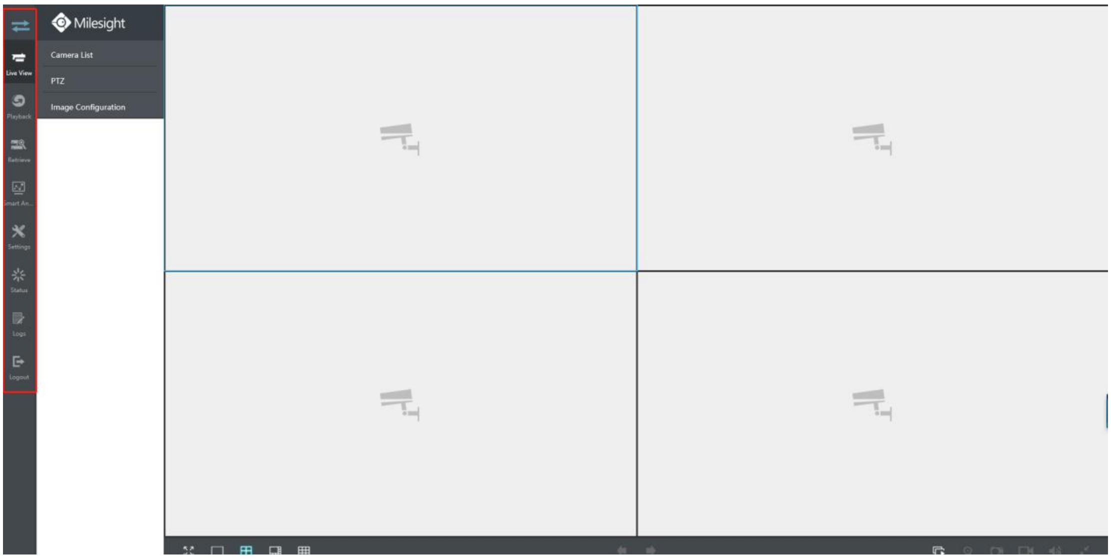
Note:

1. If the NVR firmware version is below xx.7.0.6, the default user name is “admin” and the default password is “123456”.
2. If the NVR firmware version is between xx.7.0.6 and xx.9.0.3, the default user name is

"admin" and the default password is "ms1234".

3. If the NVR firmware version is xx.9.0.3 or above, please set the password before login.

4.3 Menu



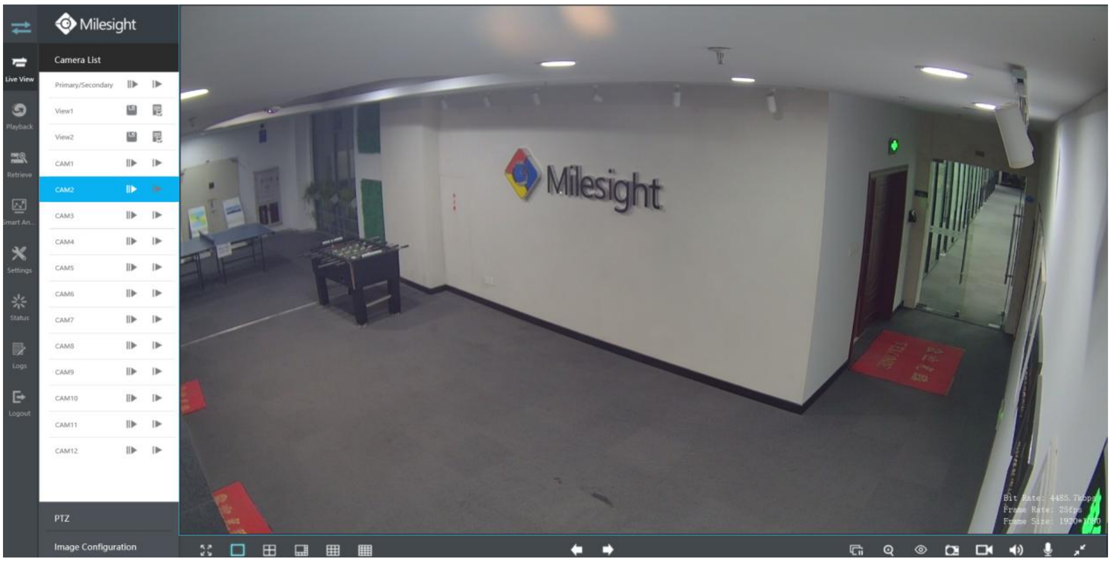
Icons	Descriptions
⇄	Hide or show secondary menu
Live View	Live view
Playback	Play back the video
Retrieve	Back Up Files
Smart An...	Smart Analysis
Settings	Make settings for Camera, Record, Event and System
Status	Check Device Information, Network Status, Camera Status, Disk Status and Event Status
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.



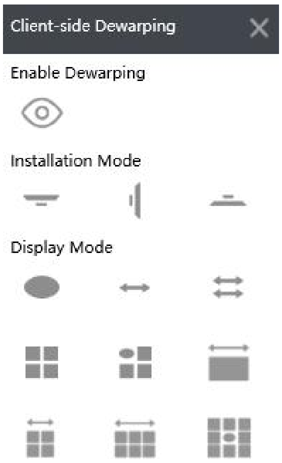
Icons’ descriptions of Live View

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.

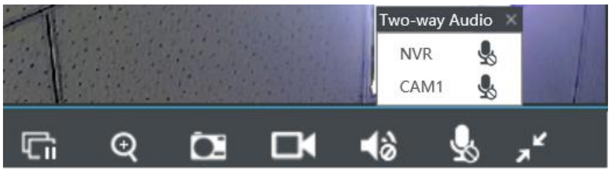


Note：

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.

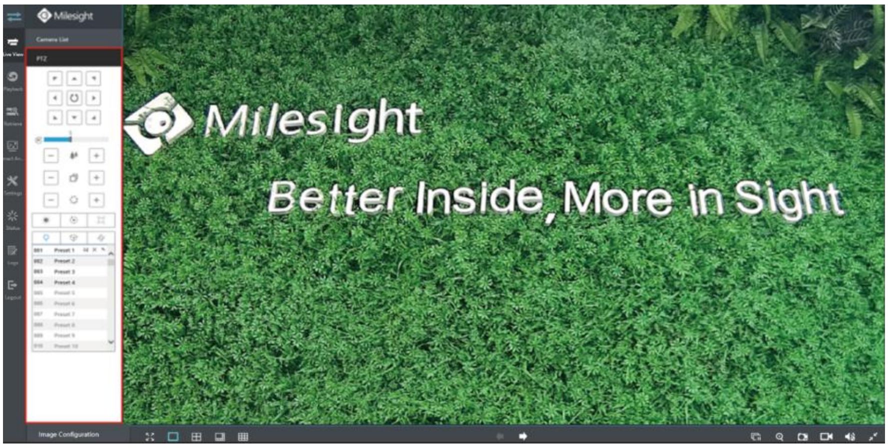
4. The audio interface of NVR can only be used alone. When other devices are talking to NVR, it would indicate that the device is busy if you enable Audio or Two-way Audio of other channels at the same time.

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.



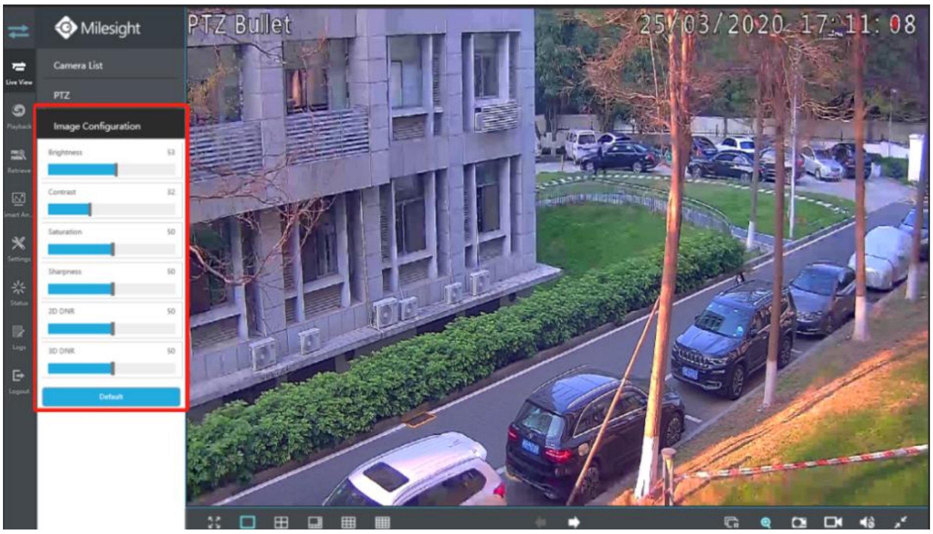
Note:

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

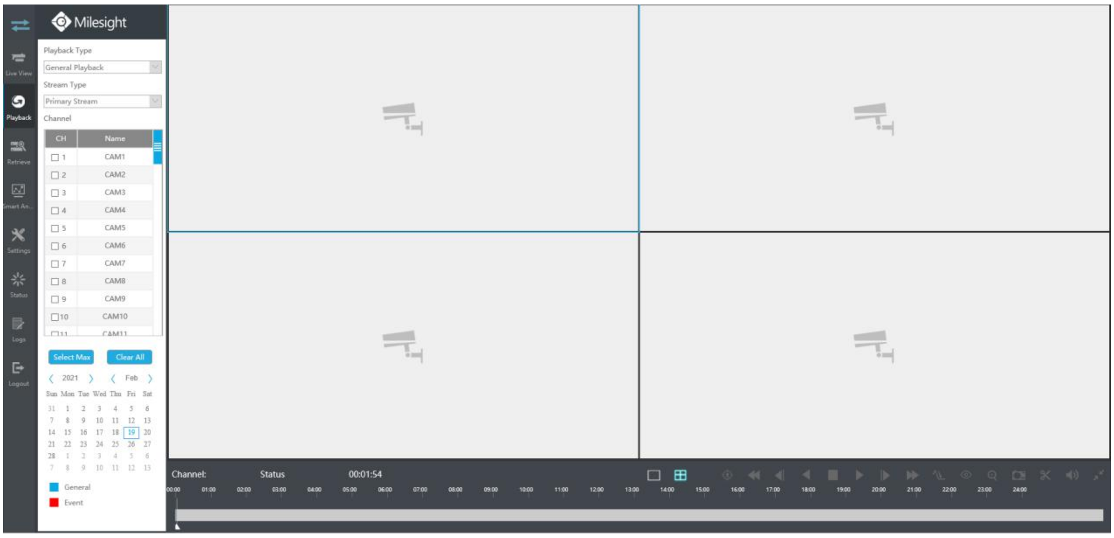
Configuration page.



Brightness 53
Contrast 32
Saturation 50
Sharpness 50
2D DNR 50
3D DNR 50

4.5 Playback

To play and backup the recorded files.

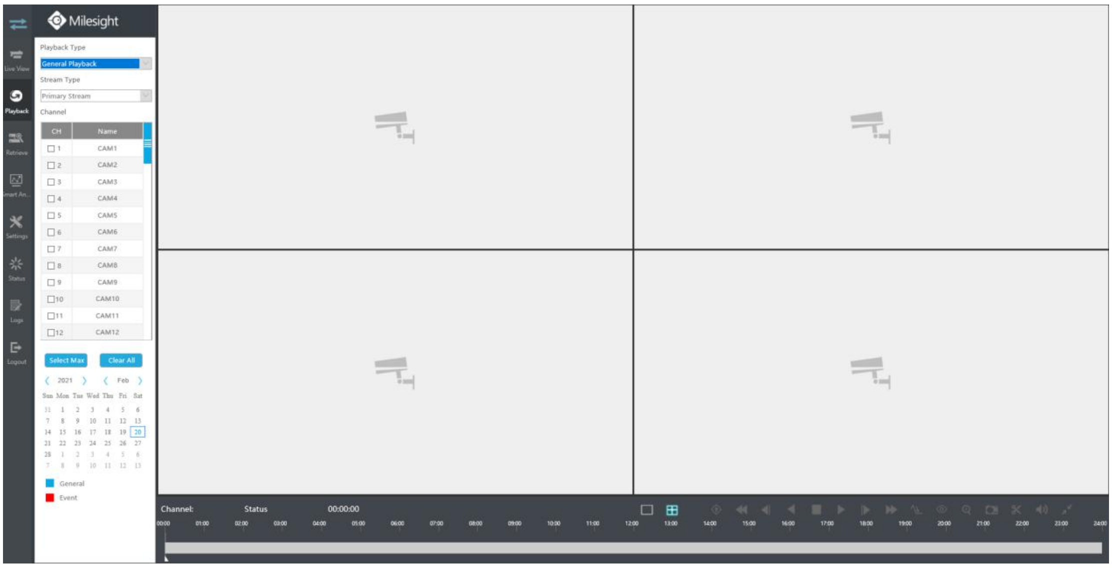


Playback Type: General Playback
Stream Type: Primary Stream

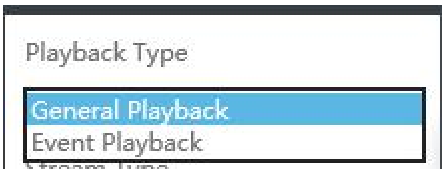
CH	Name
☐ 1	CAM1
☐ 2	CAM2
☐ 3	CAM3
☐ 4	CAM4
☐ 5	CAM5
☐ 6	CAM6
☐ 7	CAM7
☐ 8	CAM8
☐ 9	CAM9
☐ 10	CAM10
☐ 11	CAM11

4.5.1 How to playback

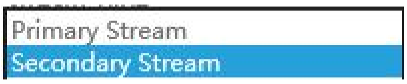
4.5.1.1 General Playback



Step 1. Select General Playback as Playback Type.



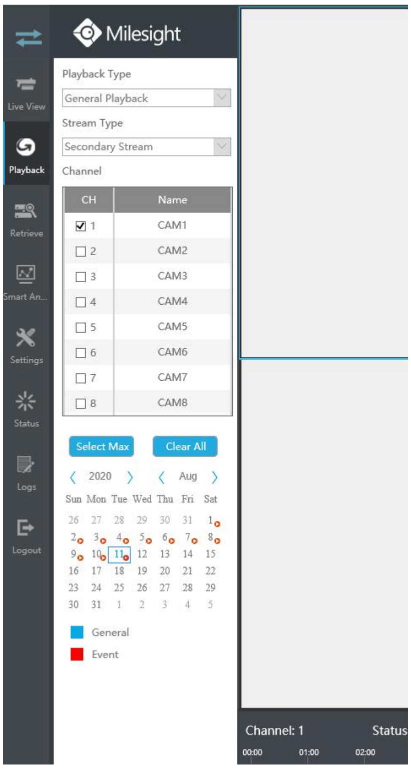
Step 2. Select Stream Type, including Primary Stream and Secondary Stream.



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

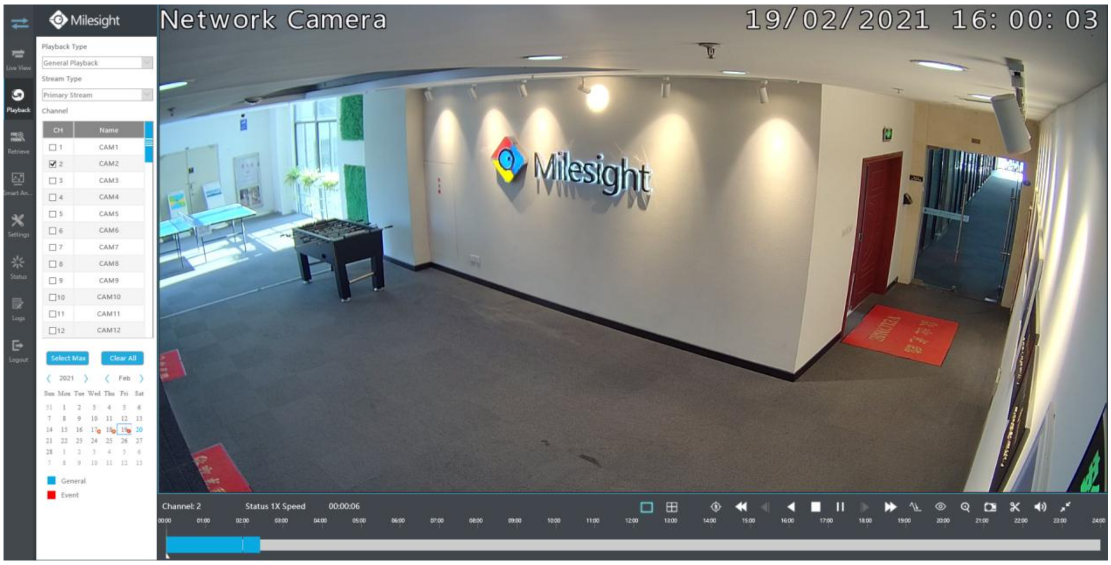
CH	Name
☑ 1	CAM1
☐ 2	CAM2
☐ 3	CAM3
☐ 4	CAM4
☐ 5	CAM5
☐ 6	CAM6
☐ 7	CAM7
☐ 8	CAM8

Step 4. Select Date.

Step 5. Click ▶ to play.

Note:

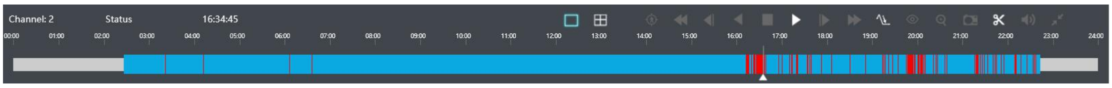
Only the day with a red mark means that there are recorded files.



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

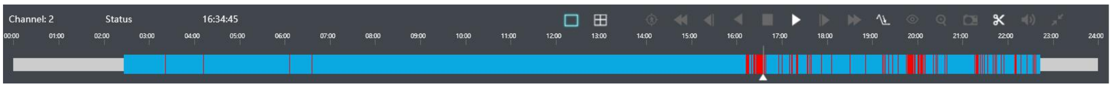
Red --- Event



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.

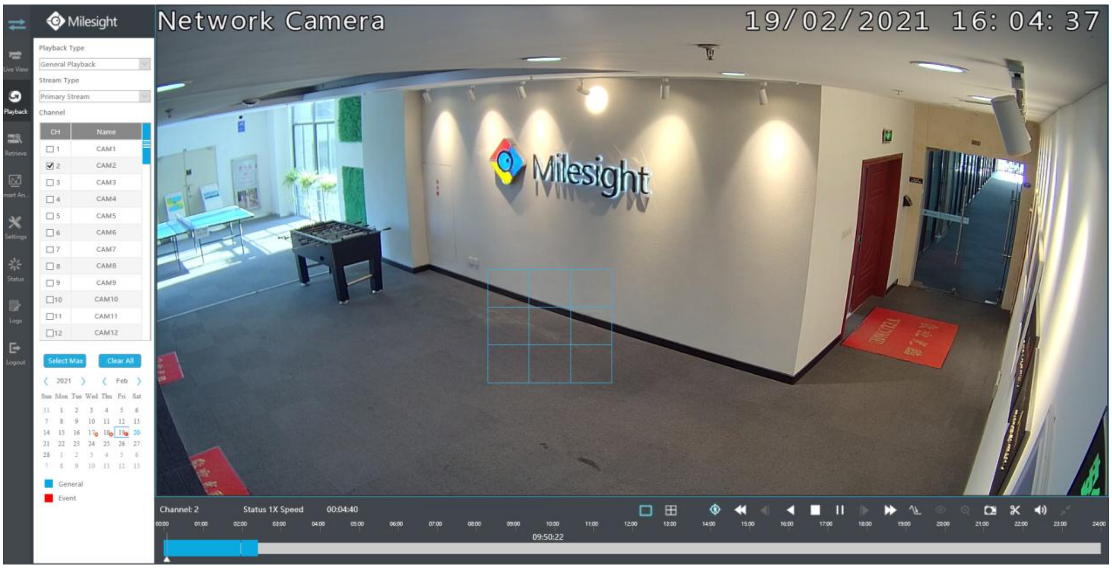
Icons	Descriptions	Icons	Descriptions
☐	1 screen mode	⊞	4 screens mode
⌖	Smart Search	⏪	Speed Down
◀❙	Step Reverse	◀	Rewind
■	Stop	▶	Play
⏸	Pause	❙▶	Step Forward
⏩	Speed Up	∿	Transcoding
👁	Client-side Dewarping	🔍	Digital Zoom
📷	Snapshot	✂	Backup
🔇	Audio On	🔊	Audio Off
⤢	Original Image	⤡	Resize Image

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.



Playback Type: General Playback

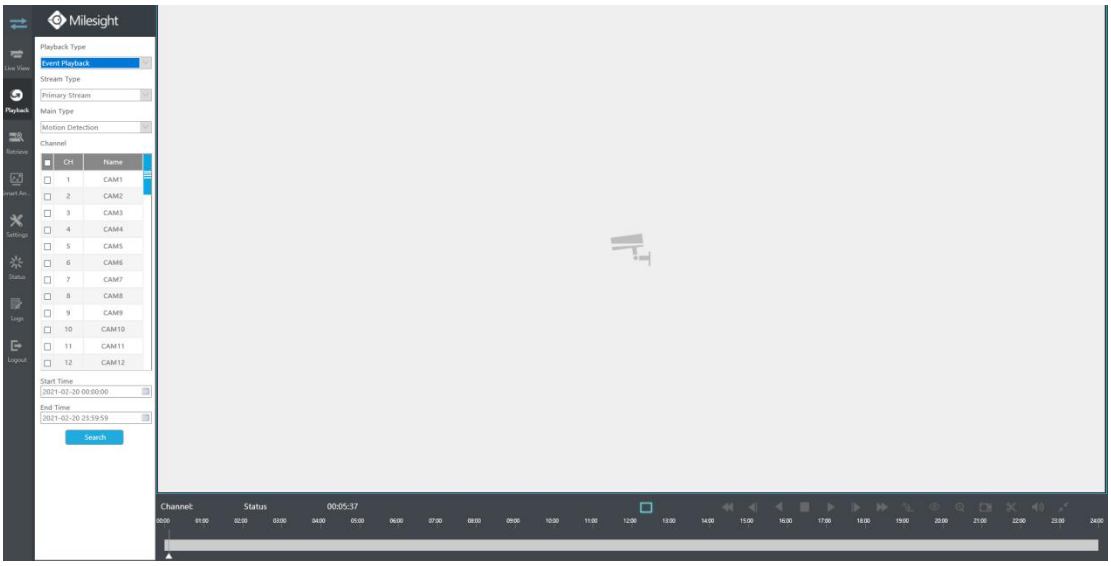
Stream Type: Primary Stream

Channel 2 Status 1X Speed

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



Playback Type: Event Playback

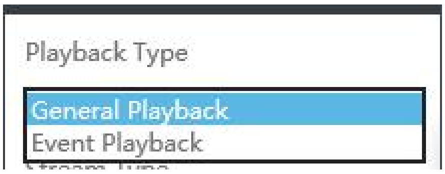
Stream Type: Primary Stream

Main Type: Motion Detection

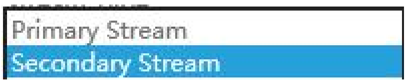
Start Time: 2021-02-20 00:00:00

End Time: 2021-02-20 23:59:59

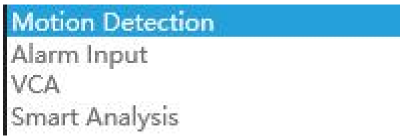
Step 1. Select Event Playback as Playback Type.



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



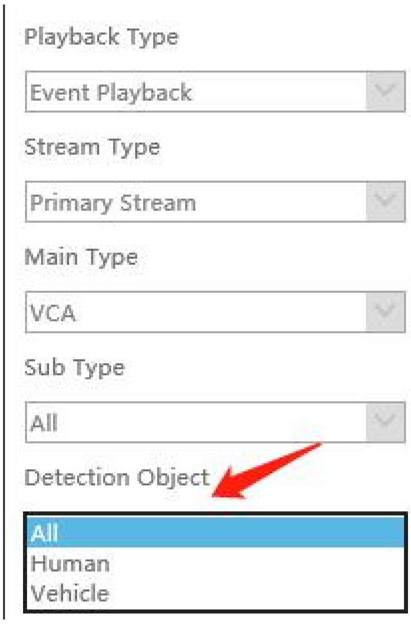
Step 3. Select Event Type



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 palyback the video that meets the corresponding conditions according to the selected Detection Object. The Detection Object has three options: All, Human and Vehicle.

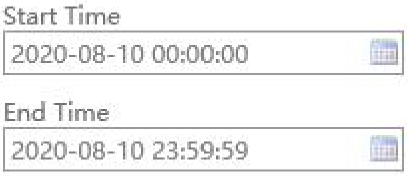
The VCA events which support the human/vehicle detection object function are:

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


Playback Type
Event Playback
Stream Type
Primary Stream
Main Type
VCA
Sub Type
All
Detection Object

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

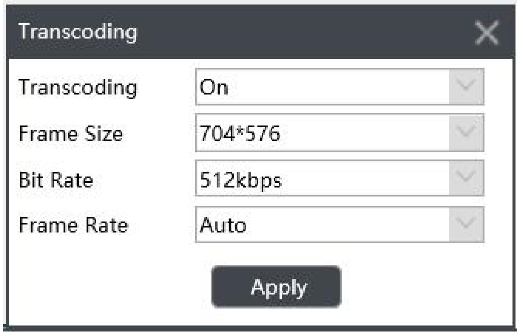
Step 6. Click Search **to search files.**

Step 7. Click ▶ **to play.**

4.5.2 Transcoding

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

Step 1. After successfully search out or play video, select the channel you want to transcoding and click to expand trancoding panel.



Transcoding

Transcoding	On
Frame Size	704*576
Bit Rate	512kbps
Frame Rate	Auto

Step 2. Set Transcoding parameters.

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

Step 3. Click Apply **to make transcoding take effect.**

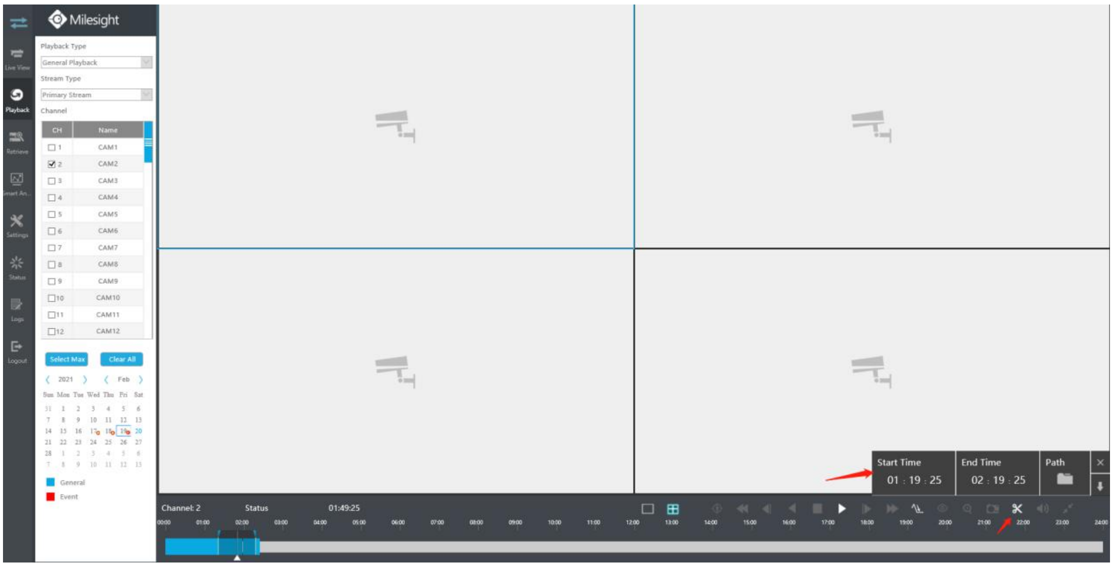
4.5.3 Video Files Backup

Recorded files can be cut and backed up from WEB.

Step 1. In playback interface, select camera, stream type, the date and time to search record video.

Step 2. Select Recorded files for Backup.

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



Playback Type: General Playback

Stream Type: Primary Stream

Start Time: 01 : 19 : 25

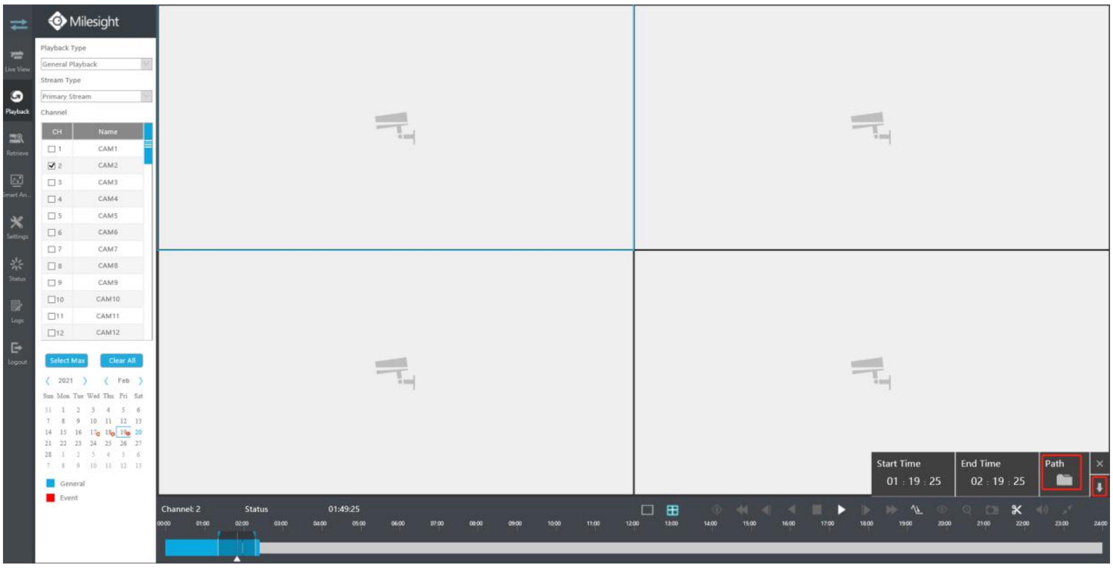
End Time: 02 : 19 : 25

Channel: 2

01:49:25

Step 3. Backup the recorded files.

Click 📁 to select file path, then click ⬇ to back up recorded files.



Playback Type: General Playback

Stream Type: Primary Stream

Start Time: 01 : 19 : 25

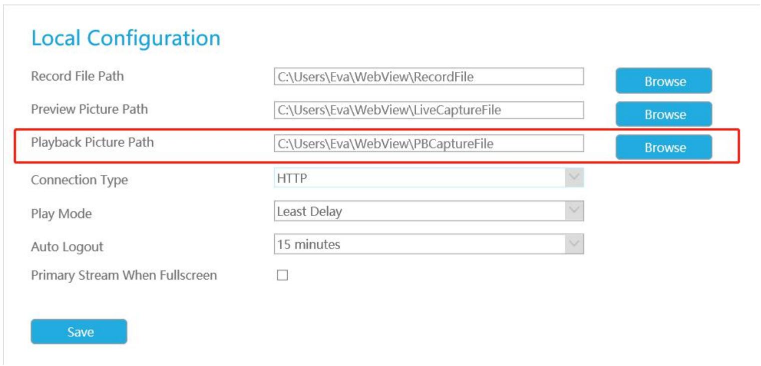
End Time: 02 : 19 : 25

Channel: 2

01:49:25

4.5.4 Picture Files Backup

Step 1. Browse a playback picture path in Local Configuration interface.



Local Configuration

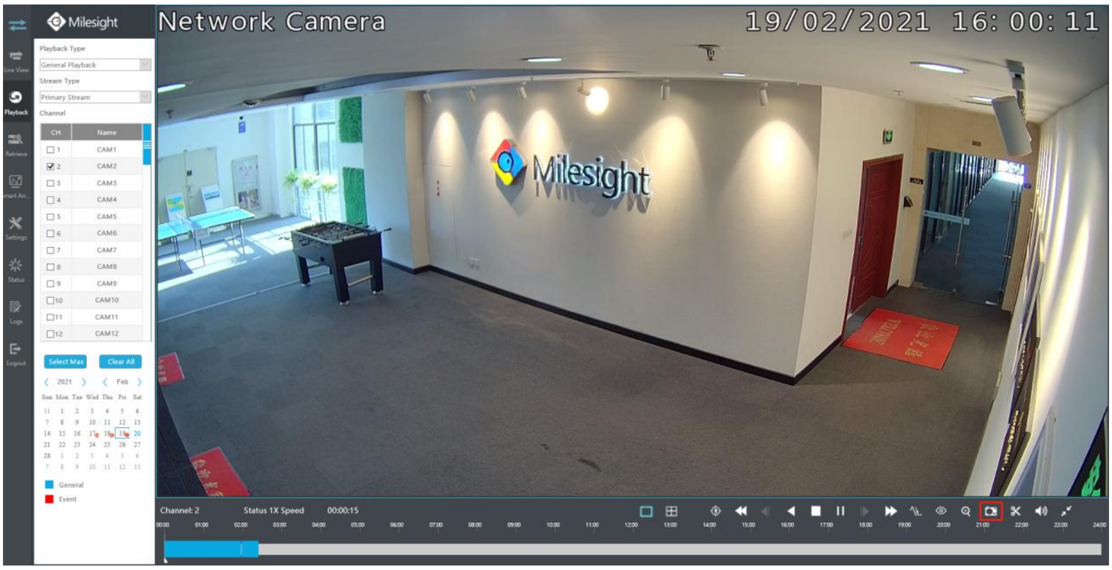
Record File Path	C:\Users\Eva\WebView\RecordFile	Browse
Preview Picture Path	C:\Users\Eva\WebView\LiveCaptureFile	Browse
Playback Picture Path	C:\Users\Eva\WebView\PBCaptureFile	Browse
Connection Type	HTTP	
Play Mode	Least Delay	
Auto Logout	15 minutes	
Primary Stream When Fullscreen	☐	

Save

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

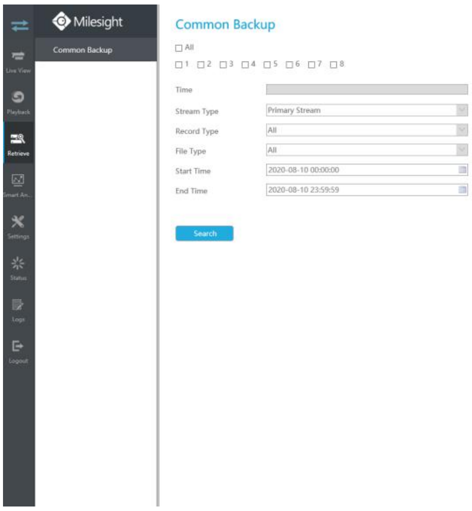
Note:

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



4.6 Retrieve

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



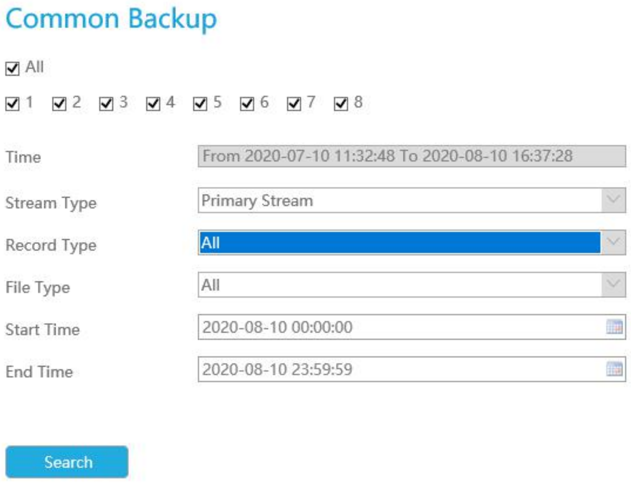
Common Backup

☐ All

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

Time	
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

Step1: Set the search condition and click Search to search video.



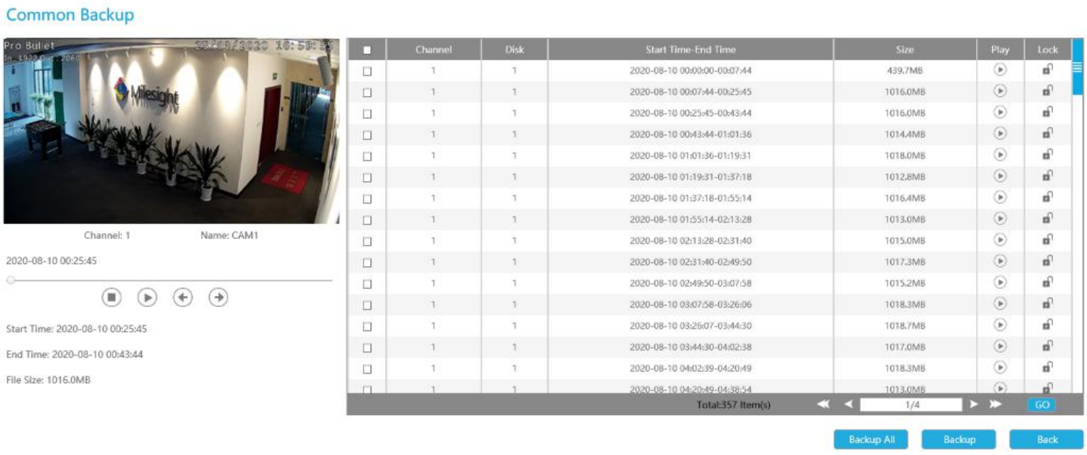
Common Backup

☑ 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

The search result can be shown as a list.



Common Backup

Channel: 1 Name: CAM1

2020-08-10 00:25:45

Start Time: 2020-08-10 00:25:45

End Time: 2020-08-10 00:43:44

File Size: 1016.0MB

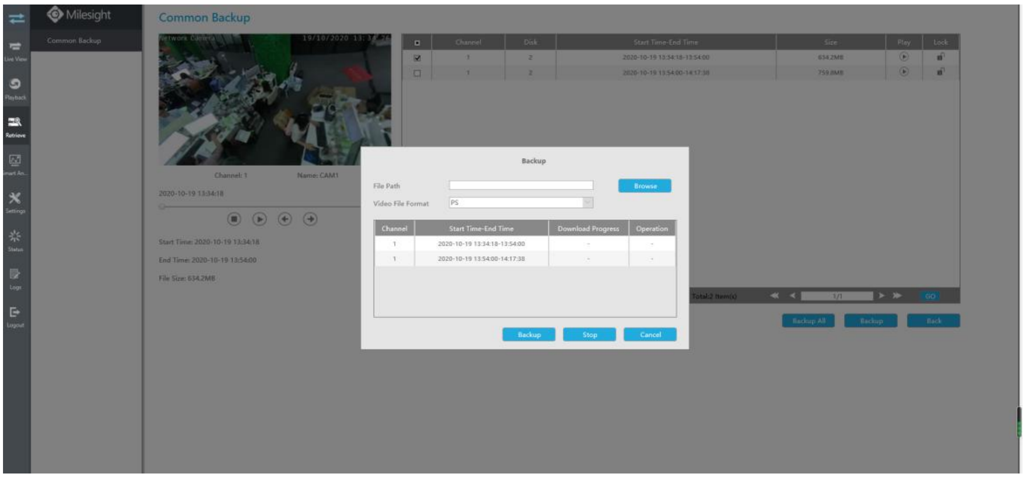
☐	Channel	Disk	Start Time-End Time	Size	Play	Lock
☐	1	1	2020-08-10 00:00:00-00:07:44	439.7MB	▶	🔓
☐	1	1	2020-08-10 00:07:44-00:25:45	1016.0MB	▶	🔓
☐	1	1	2020-08-10 00:25:45-00:43:44	1016.0MB	▶	🔓
☐	1	1	2020-08-10 00:43:44-01:01:36	1014.4MB	▶	🔓
☐	1	1	2020-08-10 01:01:36-01:19:31	1018.0MB	▶	🔓
☐	1	1	2020-08-10 01:19:31-01:37:18	1012.8MB	▶	🔓
☐	1	1	2020-08-10 01:37:18-01:55:14	1016.4MB	▶	🔓
☐	1	1	2020-08-10 01:55:14-02:13:28	1013.0MB	▶	🔓
☐	1	1	2020-08-10 02:13:28-02:31:40	1015.0MB	▶	🔓
☐	1	1	2020-08-10 02:31:40-02:49:50	1017.3MB	▶	🔓
☐	1	1	2020-08-10 02:49:50-03:07:58	1015.2MB	▶	🔓
☐	1	1	2020-08-10 03:07:58-03:26:06	1018.3MB	▶	🔓
☐	1	1	2020-08-10 03:26:07-03:44:30	1018.7MB	▶	🔓
☐	1	1	2020-08-10 03:44:30-04:02:38	1017.0MB	▶	🔓
☐	1	1	2020-08-10 04:02:39-04:20:49	1018.3MB	▶	🔓
☐	1	1	2020-08-10 04:20:49-04:38:54	1013.0MB	▶	🔓

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 Backup to export selected files.



Channel: 1   Name: CAM1

2020-10-19 13:34:18

Start Time: 2020-10-19 13:34:18

End Time: 2020-10-19 13:54:00

File Size: 634.2MB

☐	Channel	Disk	Start Time-End Time	Size	Play	Lock
☑	1	2	2020-10-19 13:34:18-13:54:00	634.2MB	▶	🔓
☐	1	2	2020-10-19 13:54:00-14:17:38	759.8MB	▶	🔓

Total:2 Item(s)

Backup

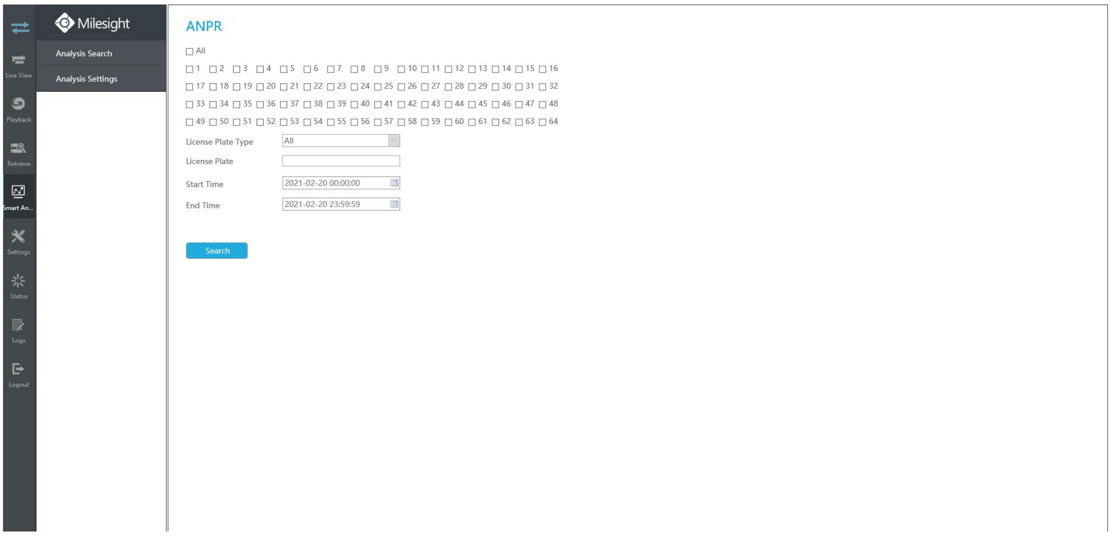
File Path:

Video File Format: PS

Channel	Start Time-End Time	Download Progress	Operation
1	2020-10-19 13:34:18-13:54:00	-	-
1	2020-10-19 13:54:00-14:17:38	-	-

4.7 Smart Analysis

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



ANPR

☐ 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

License Plate Type: All

License Plate:

Start Time: 2021-02-20 00:00:00

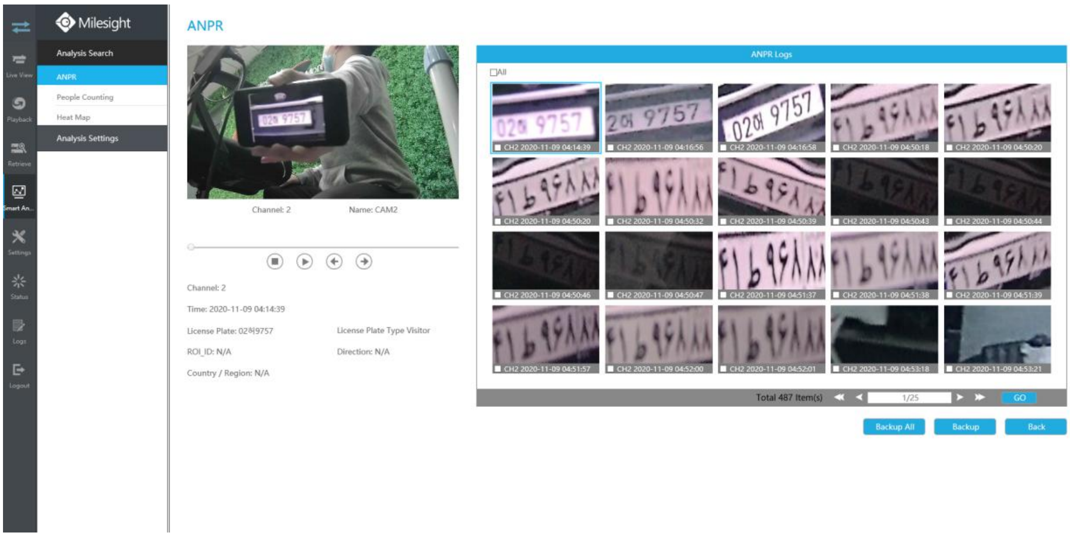
End Time: 2021-02-20 23:59:59

4.7.1 Analysis Search

4.7.1.1 ANPR

You can Search and Backup ANPR logs.

Input corresponding 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.



Channel: 2
Name: CAM2

Channel: 2

Time: 2020-11-09 04:14:39

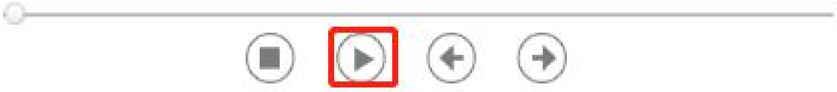
License Plate: 02허9757
License Plate Type Visitor

ROI_ID: N/A
Direction: N/A

Country / Region: N/A

Total 487 Item(s) 1/25 GO

You can click ▷ to play the video.

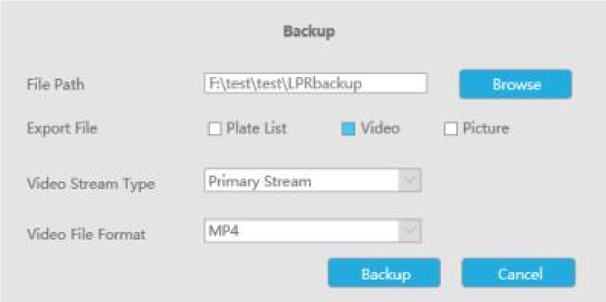


There are two methods to backup ANPR logs.

① Backup license plates you want.

Step 1: Tick license plates you want to backup and click Backup;

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



File Path: F:\test\test\LPRbackup

Export File: ☐ Plate List ☑ Video ☐ Picture

Video Stream Type: Primary Stream

Video File Format: MP4

② Backup all.

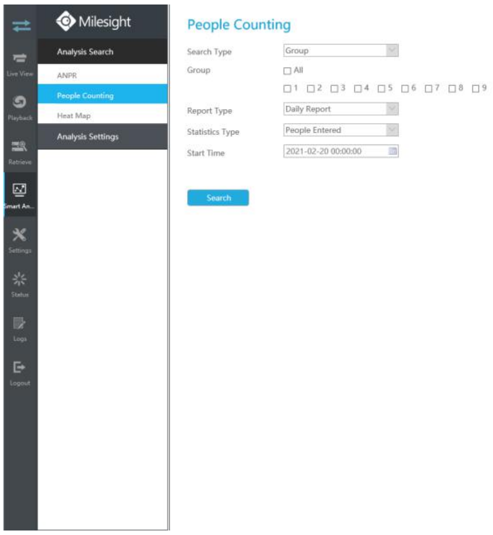
Step 1: Click backup all Backup All button;

Step 2: Select the export file type, video stream type and video file format, then click export button.
Then you will get corresponding file as selected export file type.

Picture	12/19/2019 6:49 AM	File folder
Plate List	12/19/2019 6:48 AM	File folder
Video	12/19/2019 6:49 AM	File folder

4.7.1.2 People Counting

You can Search and Backup the results of People Counting.



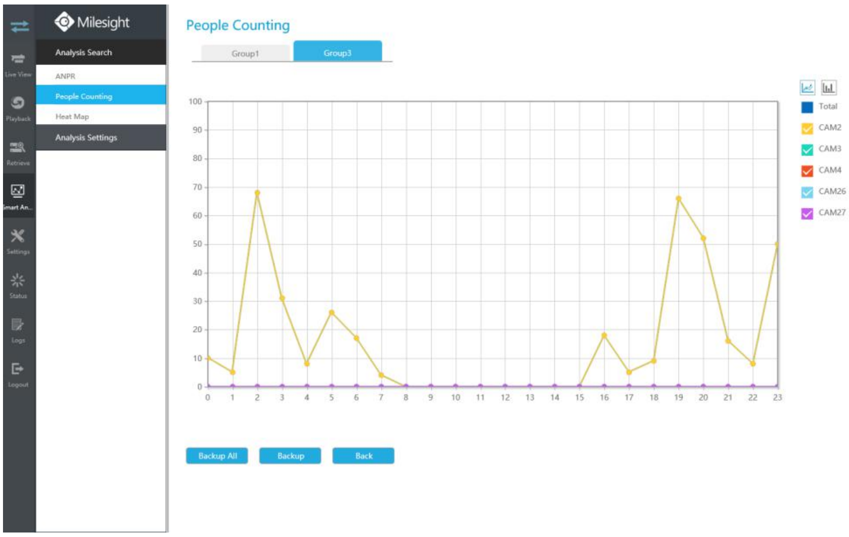
People Counting

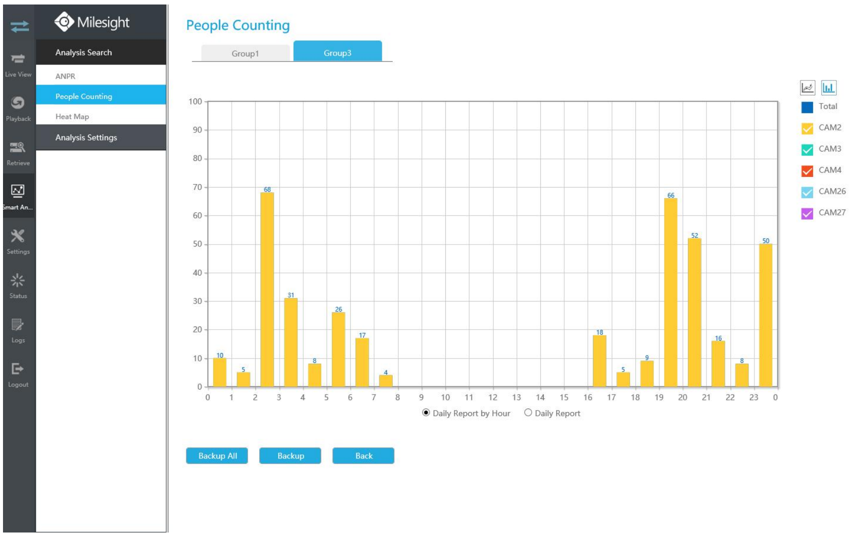
Search Type: Group
Group: ☐ All
☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9
Report Type: Daily Report
Statistics Type: People Entered
Start Time: 2021-02-20 00:00:00

Step 1: Entering search conditions.
Group: Select the groups first.
Report Type: Daily Report, Weekly Report and Monthly Report are available.
Statistic Type: People Entered, People Exited and Sum are available.
Start Time: Input the time from which you want to Search.

Step 2: Click Search 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.



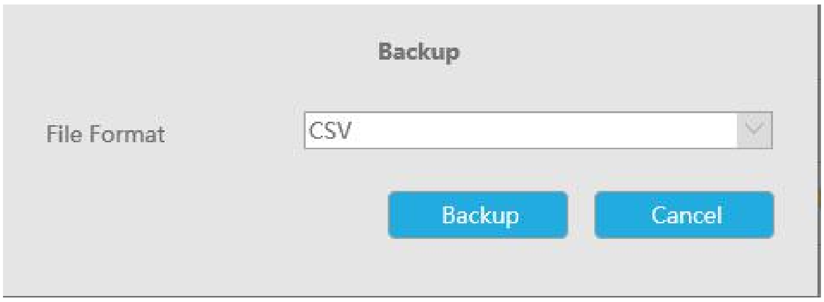


Step 3: You can backup the results of People Counting in two ways:

①Backup the group you want.

Step 1: Choose the group you want to backup and click backup button Backup;

Step 2: Select the file format, and then click backup button Backup.


Backup

File Format CSV

②Backup all.

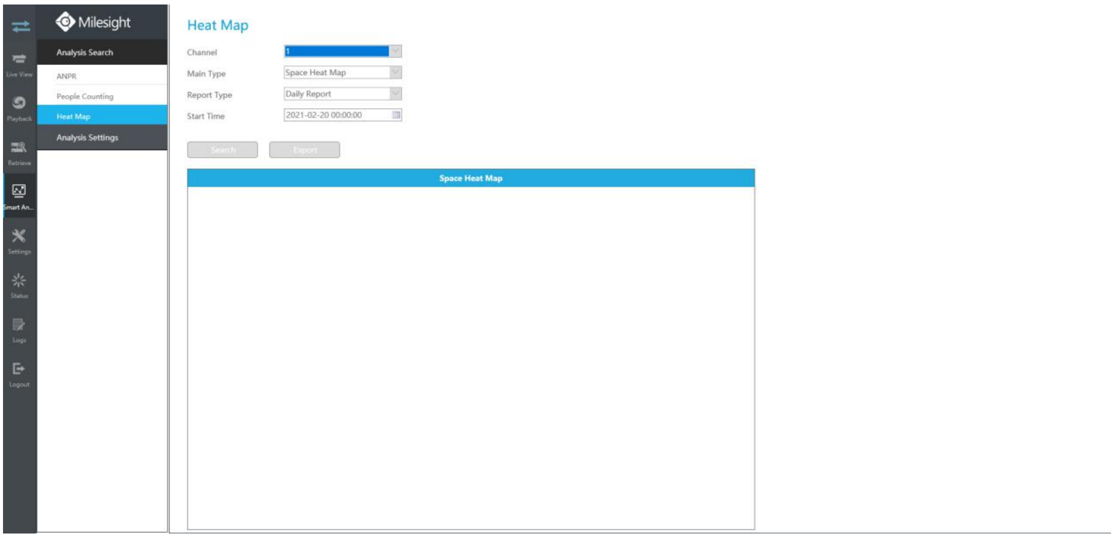
Step 1: Click backup all button Backup All;

Step 2: Select the file format, and then click backup button.

Then you will get corresponding file.

4.7.1.3 Heat Map

You can Search and Export Heat Map results.



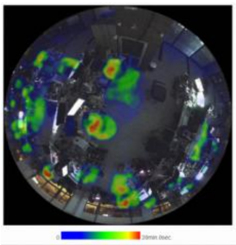
Channel: 1
Main Type: Space Heat Map
Report Type: Daily Report
Start Time: 2021-02-20 00:00:00

Step 1: Entering search conditions.

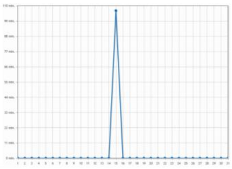
Channel: Select the channel first.

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.

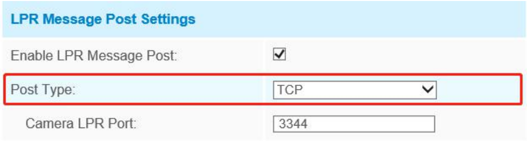
4.7.2 Analysis Settings

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.


LPR Message Post Settings

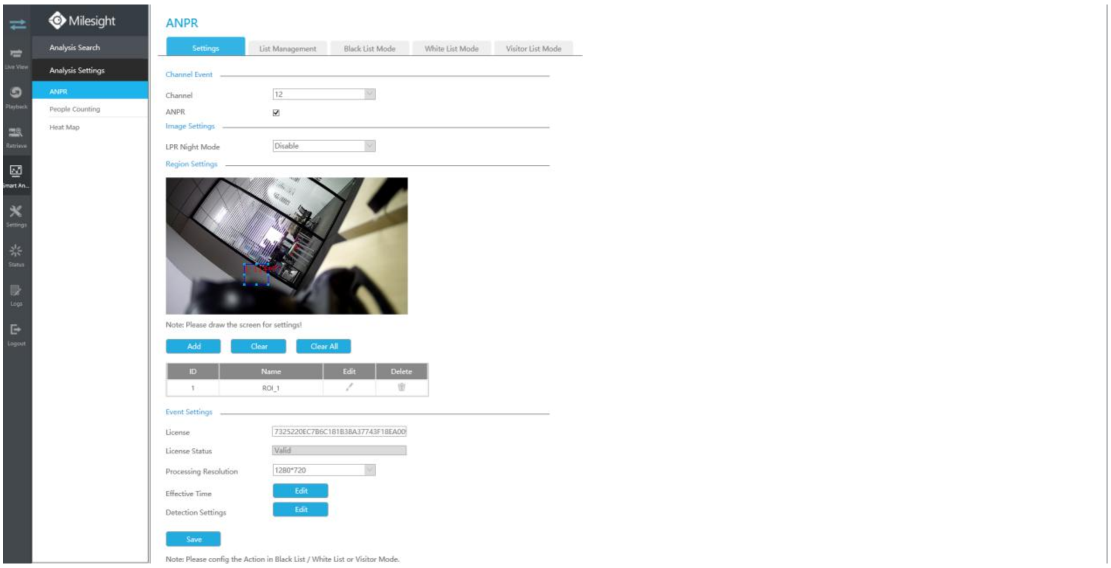
Enable LPR Message Post: ☑

Post Type: TCP

Camera LPR Port: 3344

Settings

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



Channel Event

Channel: 12

ANPR: ☑

Image Settings

LPR Night Mode: Disable

Region Settings

Note: Please draw the screen for settings!

ID	Name	Edit	Delete
1	ROI_1		

Event Settings

License: 7325220EC7B6C181B3BA37743F18EA00

License Status: Valid

Processing Resolution: 1280*720

Effective Time: Edit

Detection Settings: Edit

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

Step 1: Select a channel and enable ANPR function;

License: Generated by camera’s information

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

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

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

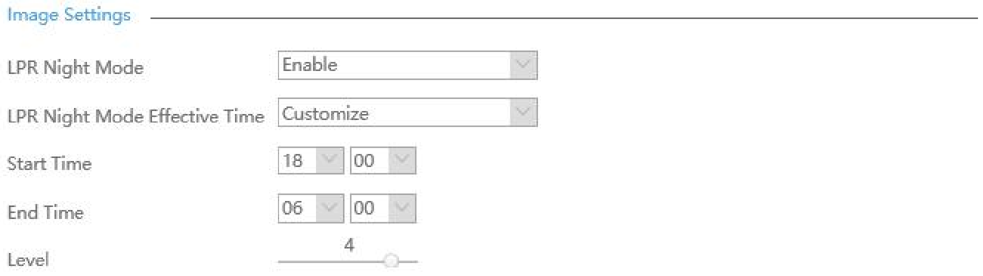


Image Settings

LPR Night Mode: Enable
LPR Night Mode Effective Time: Customize
Start Time: 18 : 00
End Time: 06 : 00
Level: 4

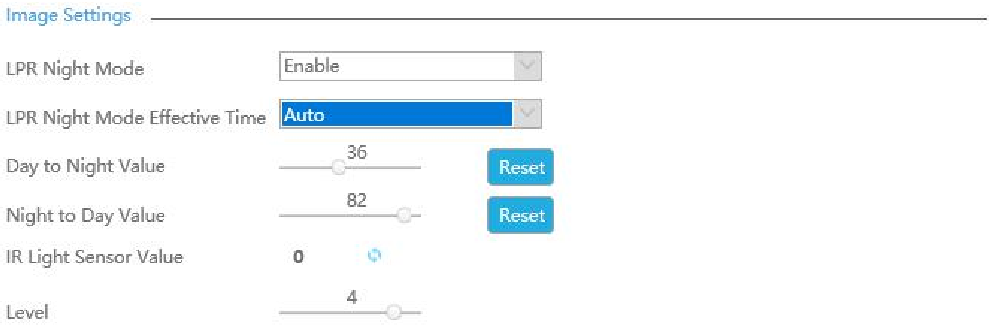


Image Settings

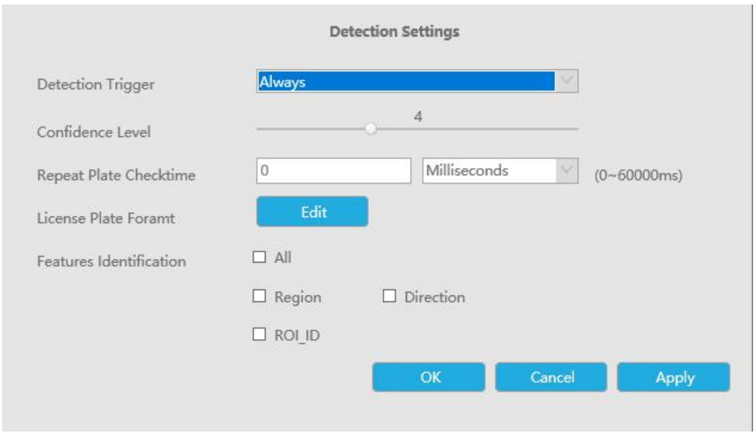
LPR Night Mode: Enable
LPR Night Mode Effective Time: Auto
Day to Night Value: 36
Night to Day Value: 82
IR Light Sensor Value: 0
Level: 4

Note：

Make sure your camera’s version is 4X.7.0.77 or above so that the Auto option for LPR Night Mode Effective Time is available.

Step 4: Set ANPR function effective time;

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



Detection Settings

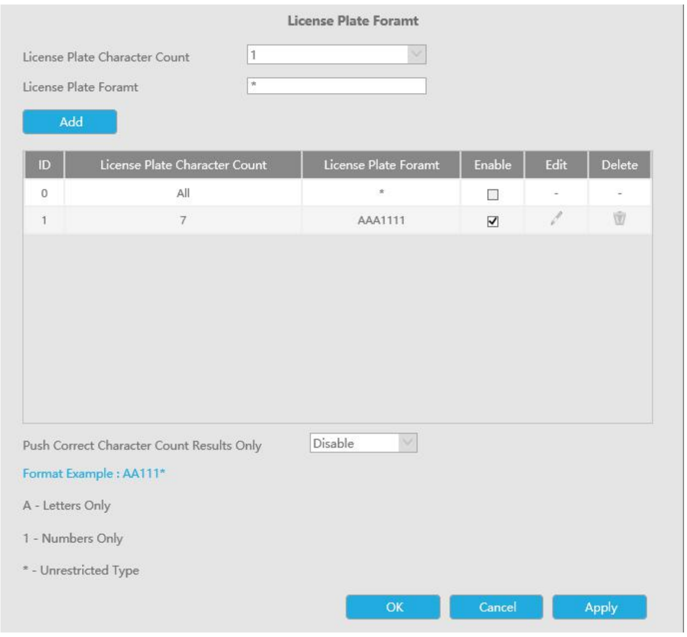
Detection Trigger: Always
Confidence Level: 4
Repeat Plate Checktime: 0 Milliseconds (0~60000ms)
License Plate Foramt
Features Identification
☐ All
☐ Region ☐ Direction
☐ ROI_ID

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.



License Plate Foramt

License Plate Character Count: 1

License Plate Foramt: *

ID	License Plate Character Count	License Plate Foramt	Enable	Edit	Delete
0	All	*	☐	-	-
1	7	AAA1111	☑	✎	🗑

Push Correct Character Count Results Only: Disable

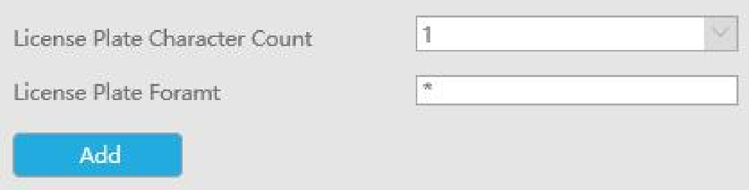
Format Example : AA111*

A - Letters Only

1 - Numbers Only

* - Unrestricted Type

① Click Add to add a License Plate Format.



License Plate Character Count: 1

License Plate Foramt: *

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:

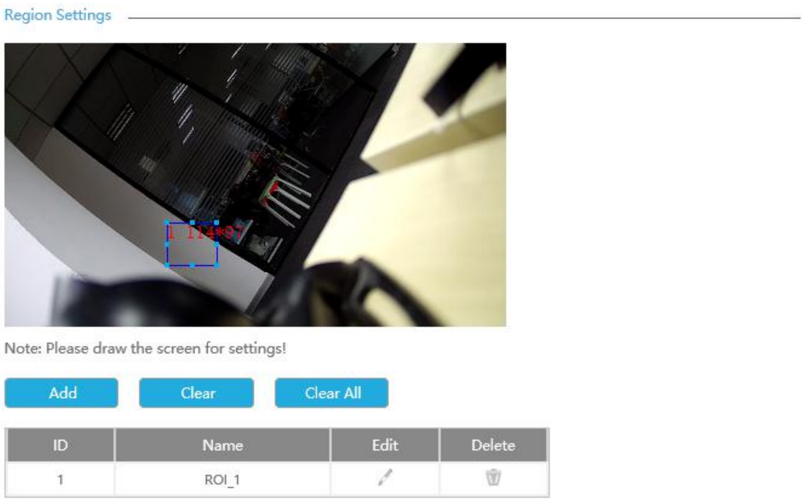
If the count of the detected license doesn’t match your configuration, it will push correct character count results by completing or reducing characters automatically.

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.

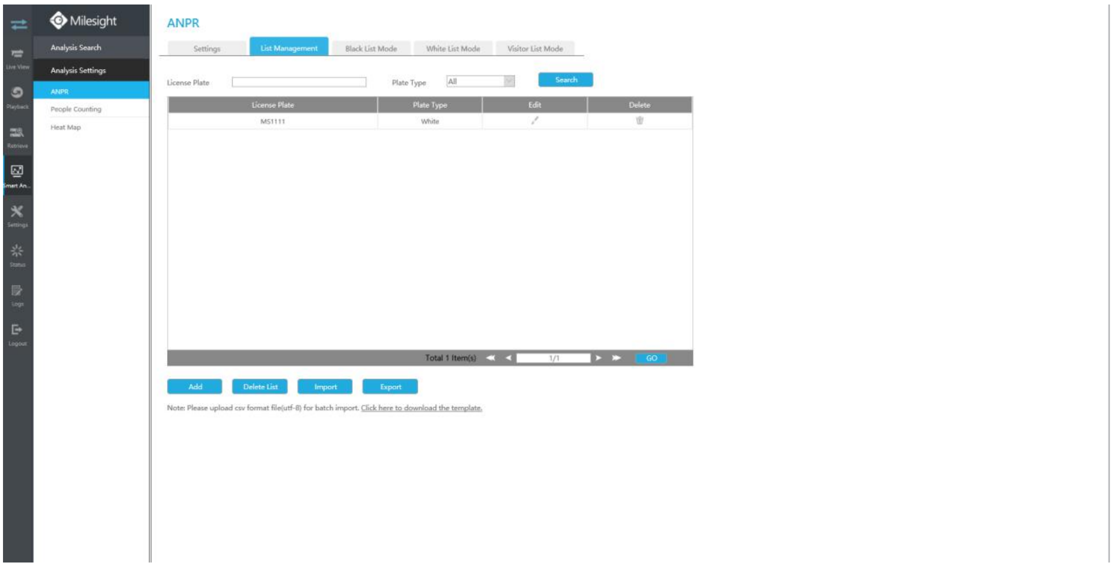


Note: Please draw the screen for settings!

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.



License Plate
Plate Type: All

License Plate	Plate Type	Edit	Delete
MS1111	White		

Total 1 Item(s) 1/1

Note: Please upload csv format file(utf-8) for batch import. Click here to download the template.

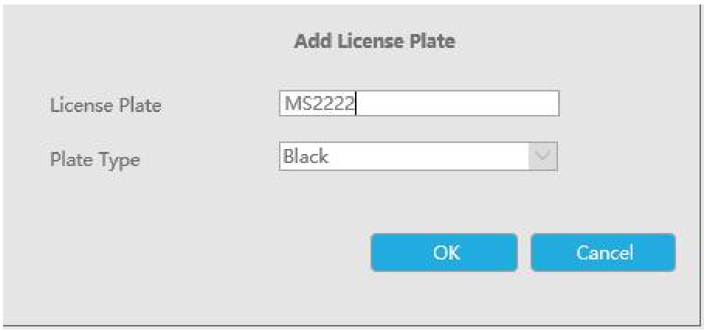
There are two methods to add license plates:

① Add one by one.

Step 1: Click Add button Add;

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

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



Add License Plate

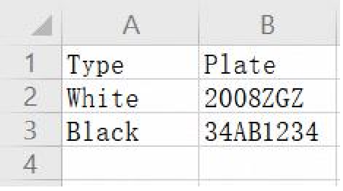
License Plate: MS2222

Plate Type: Black

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 Import, select the file and click Upload to add all license plates into list.

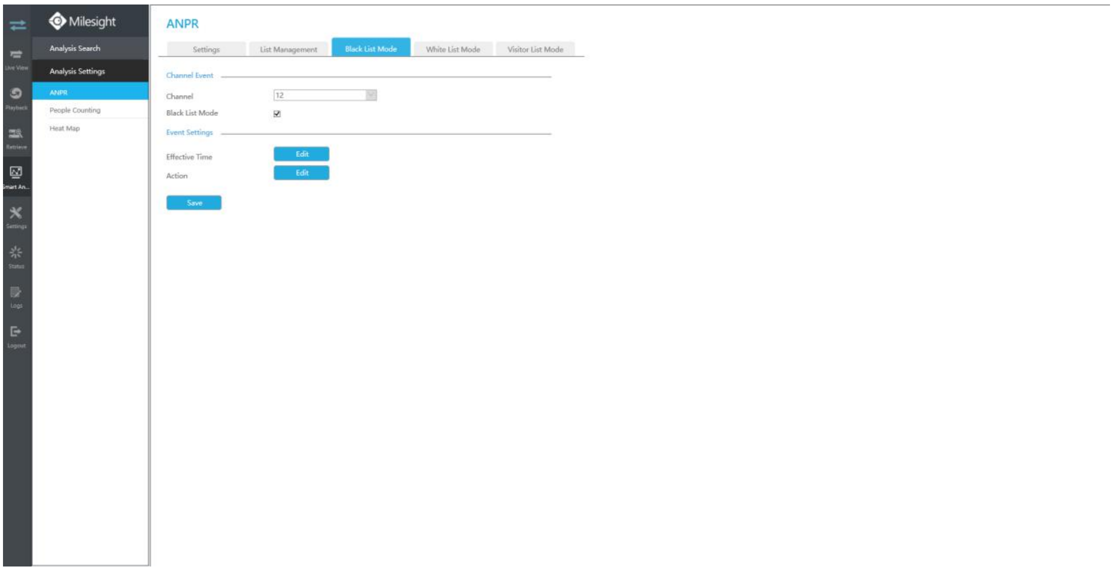
Black List Mode/White List Mode/Visitor Mode

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.



Channel 12

Black List Mode ☑

Effective Time

Action

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

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

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

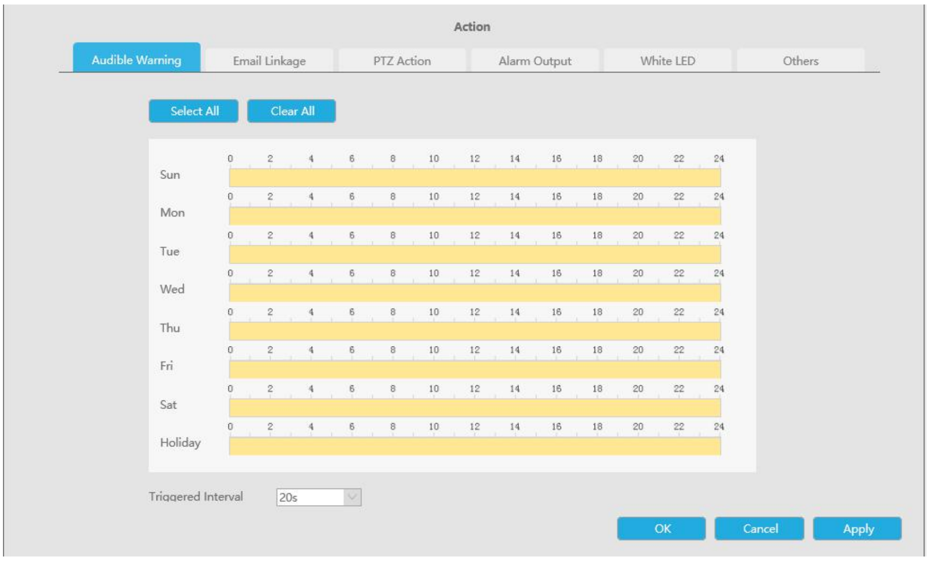
Audible Warning: NVR will trigger an audible beep when region entrance is detected.

The user can set effective schedule as following two ways:

① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting. You can click 📋 to copy the corresponding time Settings to any other time you want.

② It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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



Triggered Interval 20s

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

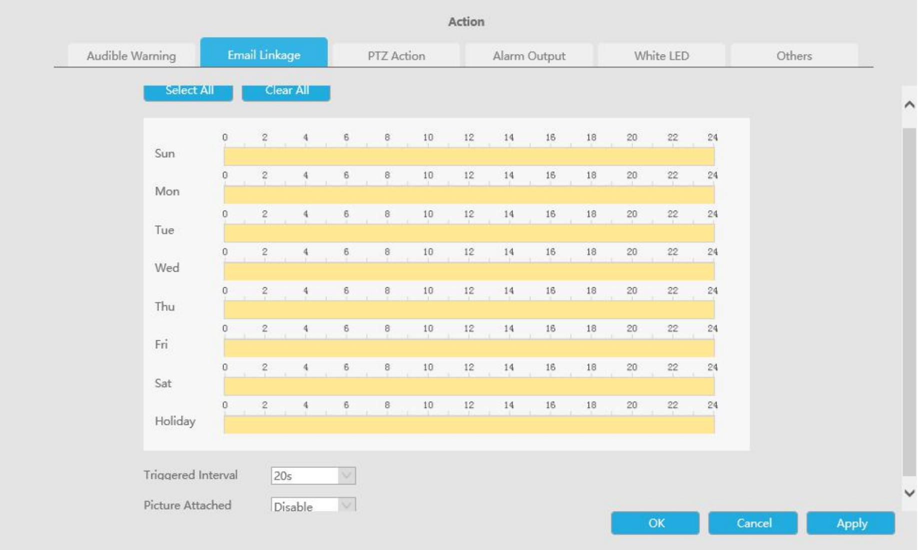
The user can set effective schedule as following two ways:

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.



Triggered Interval 20s

Picture Attached Disable

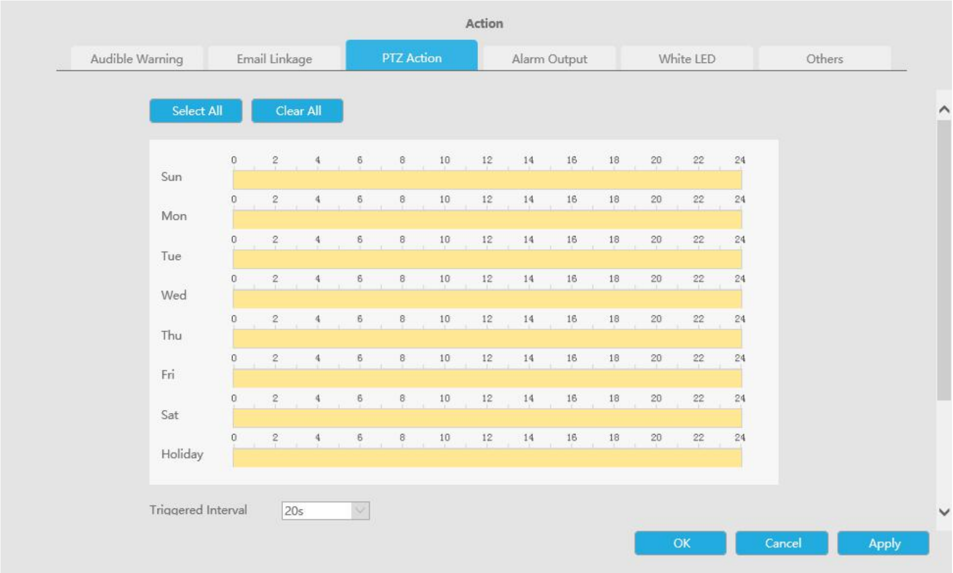
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

User can set effective schedule as following two ways:

① Select the operation type: 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.

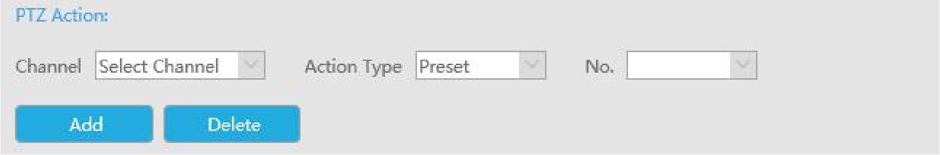
② It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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



Triggered Interval 20s

And you can add PTZ Action by clicking Add.



Channel Select Channel
Action Type Preset
No.

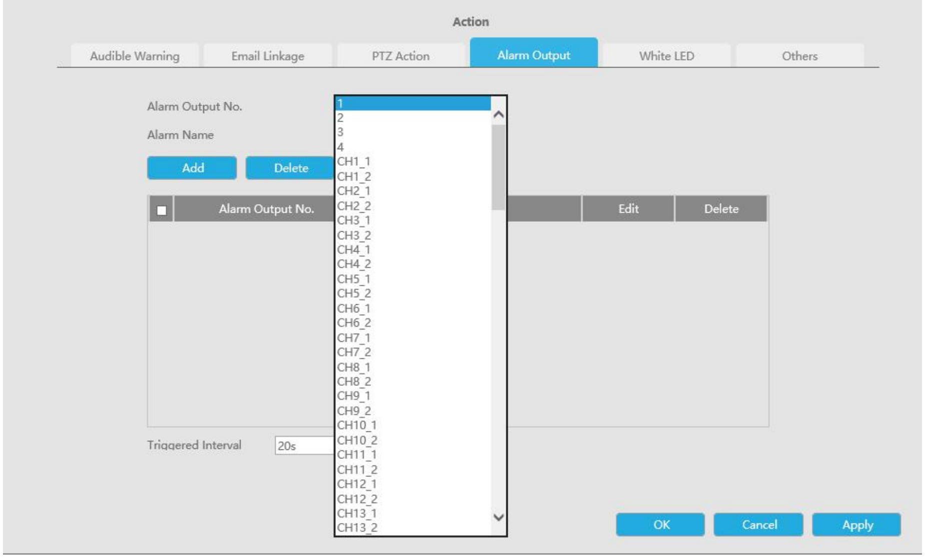
Channel: Select the channel which supports this function.

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.



Triggered Interval 20s

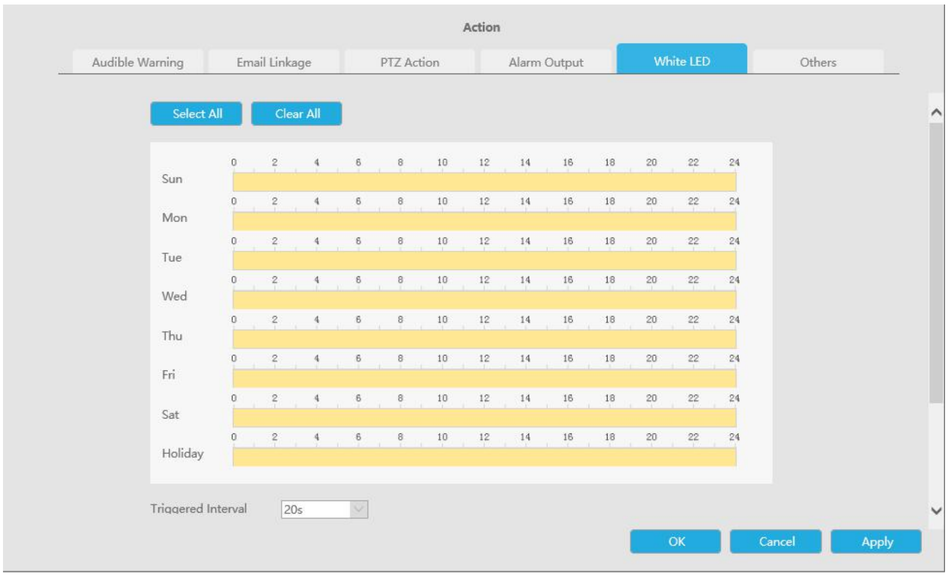
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type: 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.

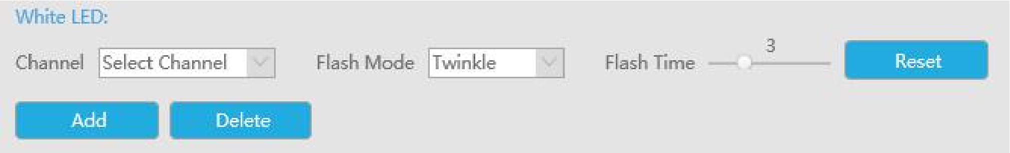
② It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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



Triggered Interval 20s

And you can add White LED by clicking Add.



Channel Select Channel

Flash Mode Twinkle

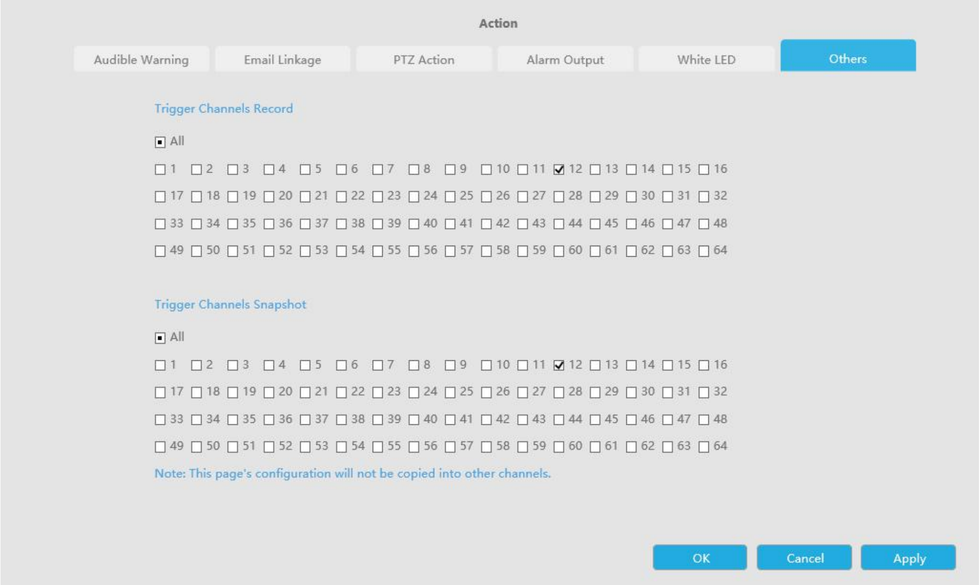
Flash Time 3

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.



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:

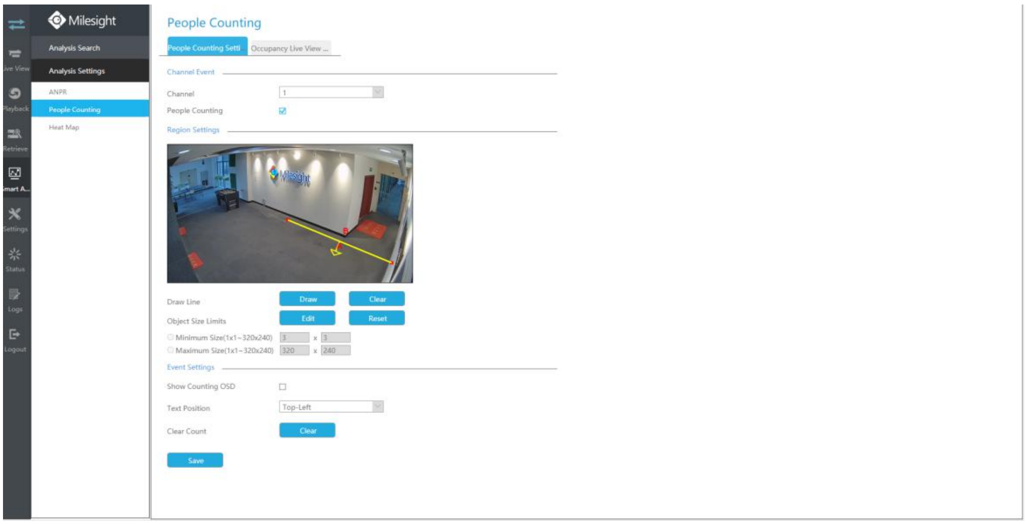
3. The list is exclusive for NVR, working with all LPR cameras you add. It won't synchronize with the list on camera side.
4. Do not forget to enable these modes, set effective time and record action for corresponded mode, ensuring that you can get real-time video when license plate is detected (Effective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

4.7.2.2 People Counting

People Counting

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

Step 1. Select channel.



Channel Event

Channel: 1

People Counting: ☑

Region Settings

Draw Line

Object Size Limits

○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

Event Settings

Show Counting OSD: ☐

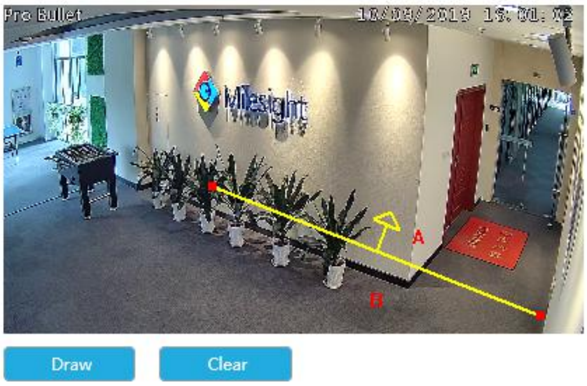
Text Position: Top-Left

Clear Count

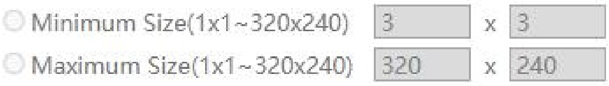
Step 2. Enable People Counting.

People Counting ☑

Step 3. Draw detection line.



Step 4. Set Minimum Size and Maximum Size.



○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

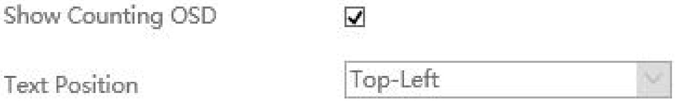
Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for People Counting will take effect.

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 Clear .



Show Counting OSD ☑

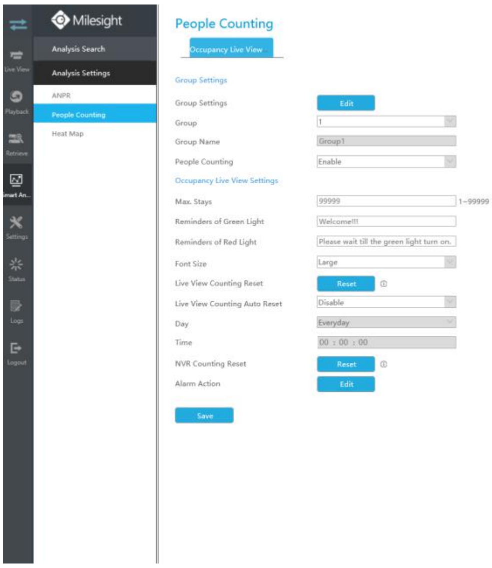
Text Position Top-Left

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.



People Counting

Group Settings

Group Settings: Edit

Group: 1

Group Name: Group1

People Counting: Enable

Occupancy Live View Settings

Max. Stays: 99999 1~99999

Reminders of Green Light: Welcome!!!

Reminders of Red Light: Please wait till the green light turn on.

Font Size: Large

Live View Counting Reset: Reset

Live View Counting Auto Reset: Disable

Day: Everyday

Time: 00 : 00 : 00

NVR Counting Reset: Reset

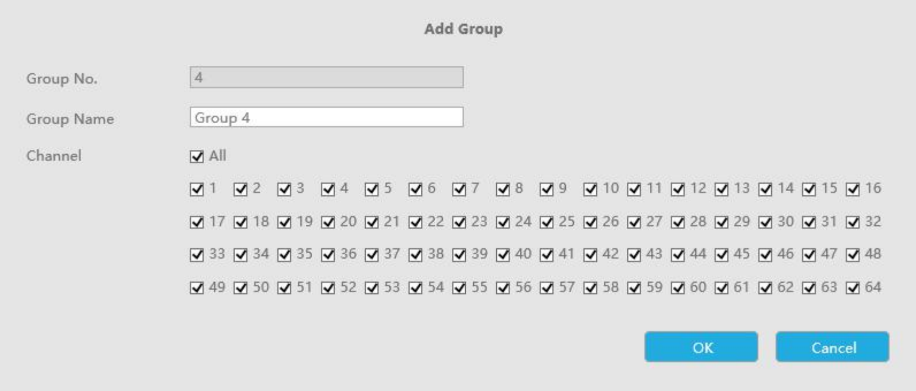
Alarm Action: Edit

Note:

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

Step 1. Set Group.

Group Settings: Click Edit to pop up the Group Settings interface. Then you can click Add to add Group in the interface, and edit the Group Name and select the Channels to join the Group in the Add Group interface. You can add up to 9 Groups.



Add Group

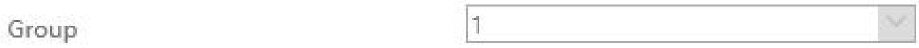
Group No.: 4

Group Name: Group 4

Channel: ☑ 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

Step 2. Select a Group from the added Groups.



Group: 1

Group Name: The corresponding Group Name will be automatically obtained according to the Group No. you choose. You can modify the Group Name by clicking ✎ on the corresponding Group in the Group Settings interface.

Step 3. Enable People Counting for the selected Group.

People Counting: Enable

Step 4. Set the relevant parameters of People Counting.

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

99999.

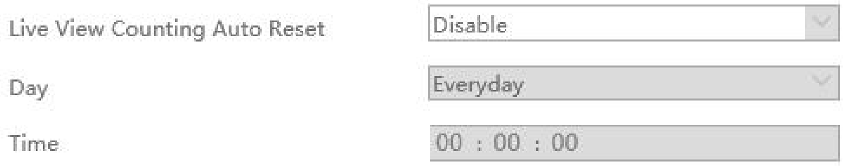
Reminders of Green Light: Set the prompt when Green Light is on in the Occupancy Live View interface, up to 45 characters. The default prompt is “Welcome!!!”.

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

Font Size: Select the font size of the prompt. There are three options: Small, Medium and Large.

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

Live View Counting Auto Reset/Day/Time: The Group counting data is automatically reset at the set time when Live View Counting Auto Reset is enabled.



Live View Counting Auto Reset: Disable
Day: Everyday
Time: 00 : 00 : 00

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

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

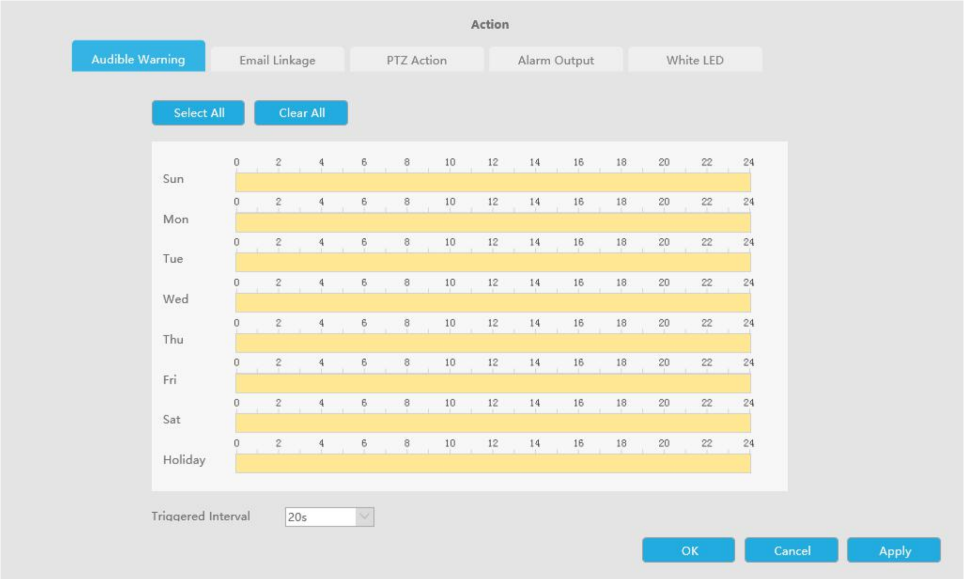
Audible Warning: NVR will trigger an audible beep.

The user can set effective schedule as following two ways:

① Select the operation type: Audible or Erase. Then drag a square on the time table for time setting. You can click to copy the corresponding time Settings to any other time you want.

② It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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



Triggered Interval: 20s

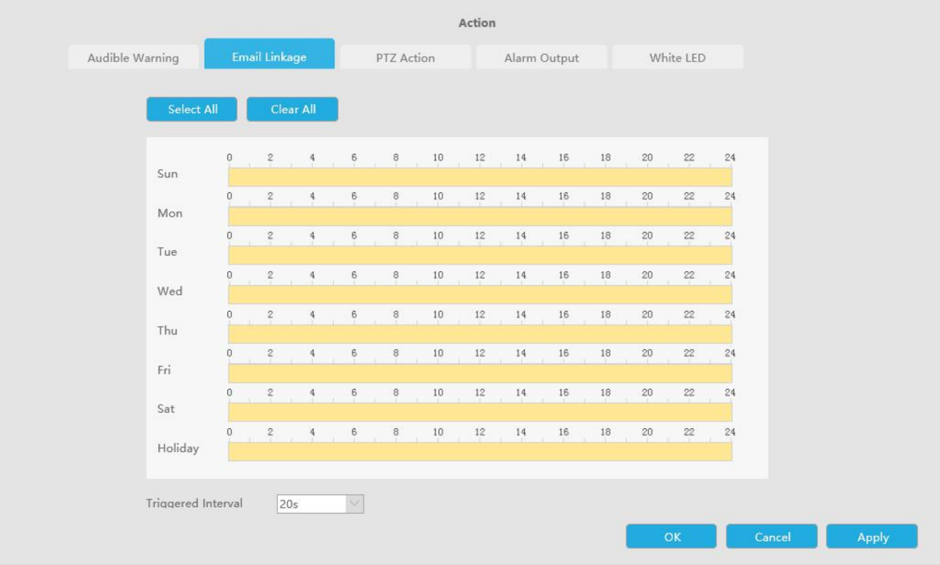
Email Linkage: NVR will send an email to the address you set before.

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.



Triggered Interval 20s

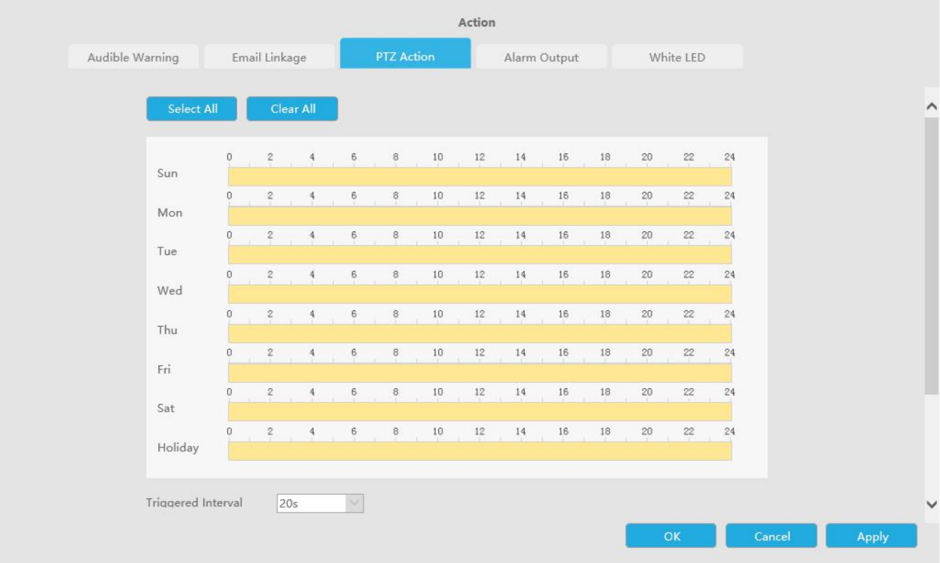
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

User can set effective schedule as following two ways:

① Select the operation type: 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.

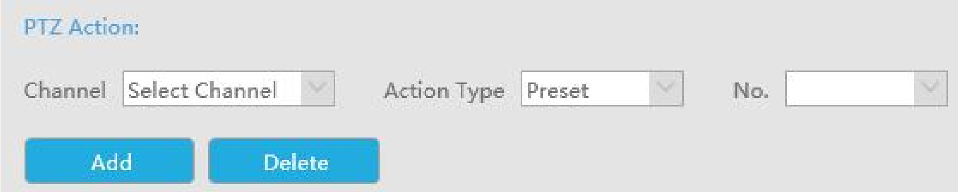
② It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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



Triggered Interval 20s

And you can add PTZ Action by clicking Add.



Channel: Select Channel
Action Type: Preset
No.:

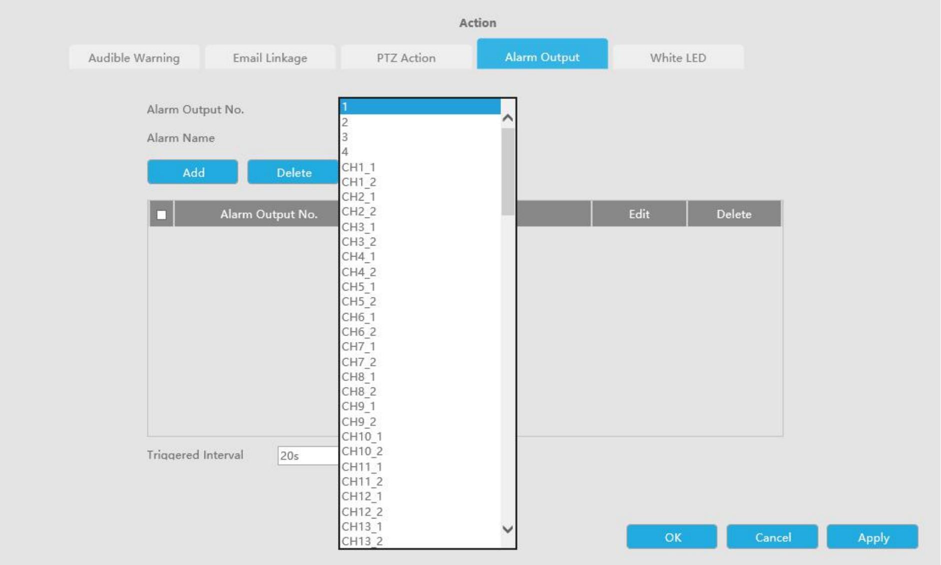
Channel: Select the channel which supports this function.

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.



Triggered Interval: 20s

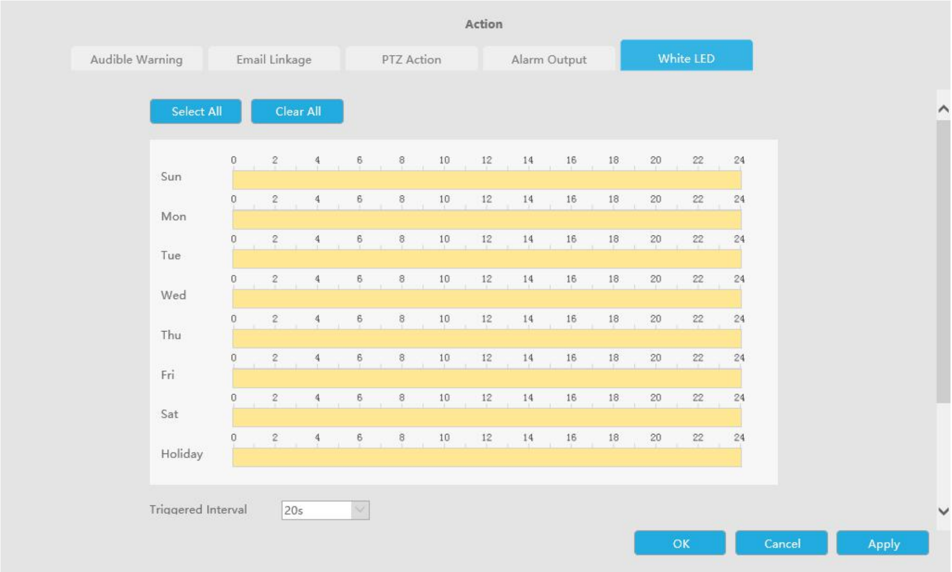
White LED: Trigger White LED flashing when alarm is triggered.

The user can set effective schedule as following two ways:

① Select the operation type: 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.

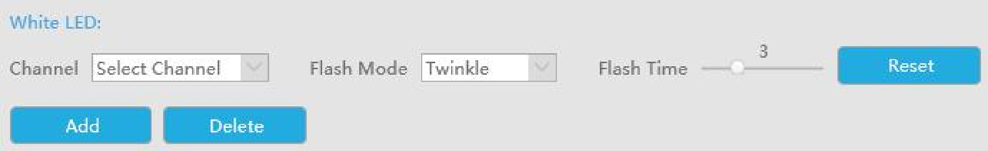
② It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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



Triggered Interval: 20s

And you can add White LED by clicking Add.



Channel: Select Channel
Flash Mode: Twinkle
Flash Time: 3

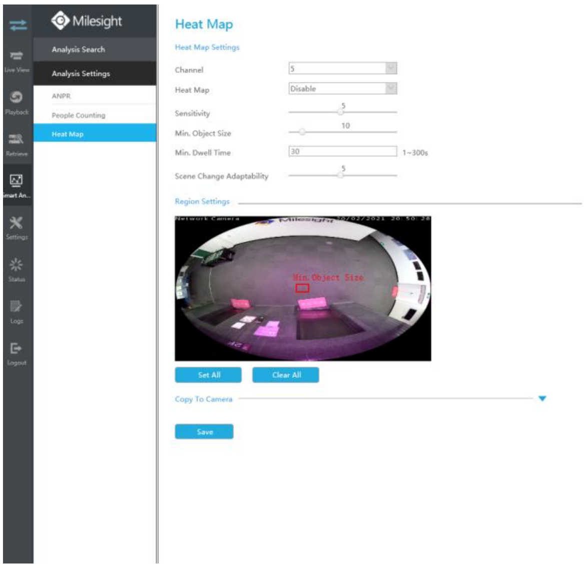
Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

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

4.7.2.3 Heat Map

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



Channel: 5
Heat Map: Disable
Sensitivity: 5
Min. Object Size: 10
Min. Dwell Time: 30 1~300s
Scene Change Adaptability: 5

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:

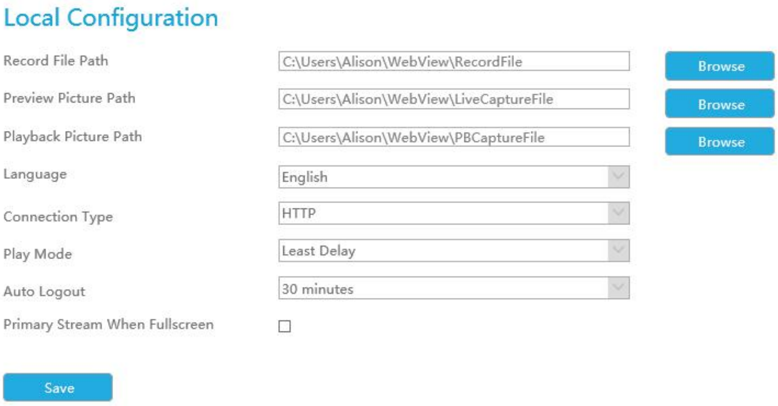
Fisheye: Ensure that the dewarping mode is 1O and the dewarping rule is On-board Dewarping.

Panoramic Mini Bullet: Ensure to turn on the Lens Distort Correct function.

4.8 Settings

4.8.1 Local Configuration

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



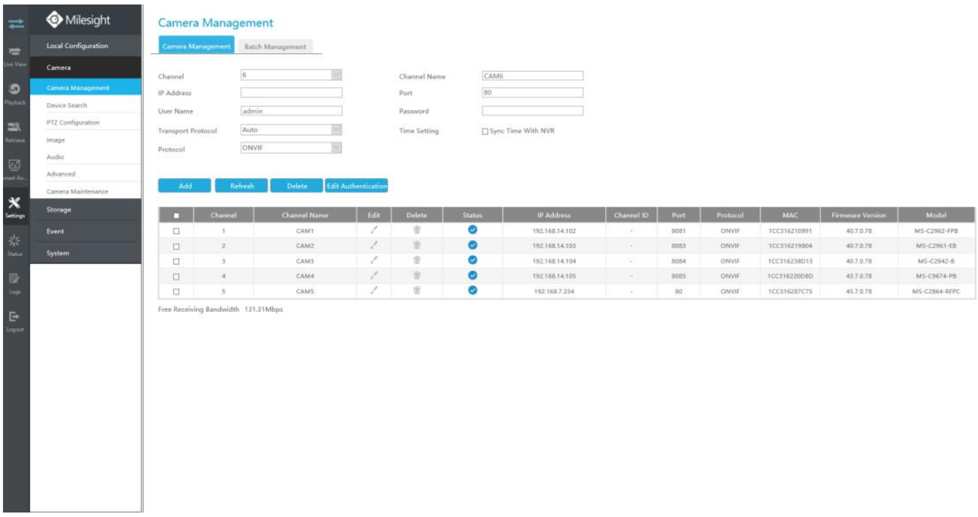
Local Configuration

Record File Path	C:\Users\Alison\WebView\RecordFile
Preview Picture Path	C:\Users\Alison\WebView\LiveCaptureFile
Playback Picture Path	C:\Users\Alison\WebView\PBCaptureFile
Language	English
Connection Type	HTTP
Play Mode	Least Delay
Auto Logout	30 minutes
Primary Stream When Fullscreen	☐

4.8.2 Camera

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

4.8.2.1 Camera Management



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

■	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	-	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

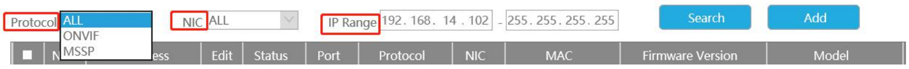
Free Receiving Bandwidth 131.31Mbps

Step1. Add Camera.

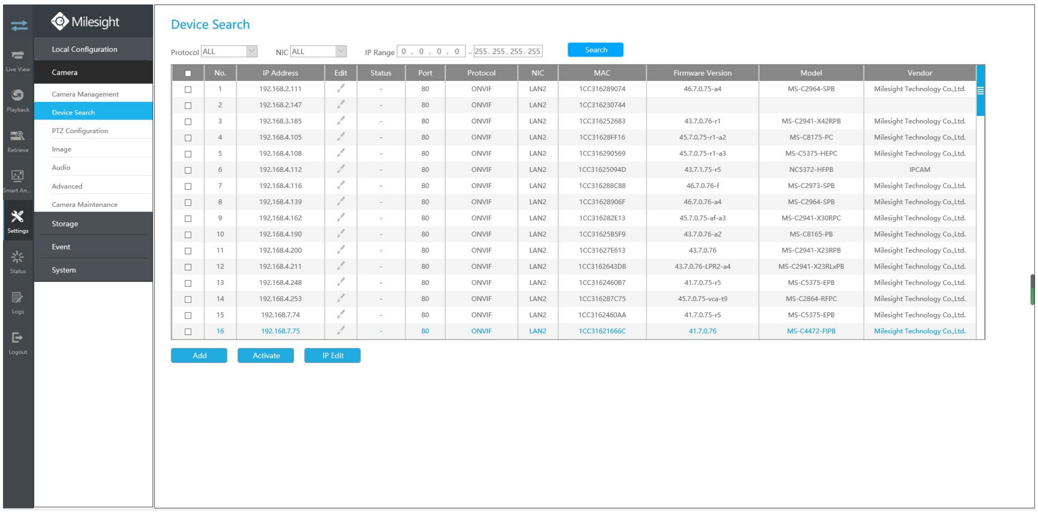
Method1. Add IP Channel in Device Search interface. 'Settings' → 'Camera' → 'Device Search'.

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.



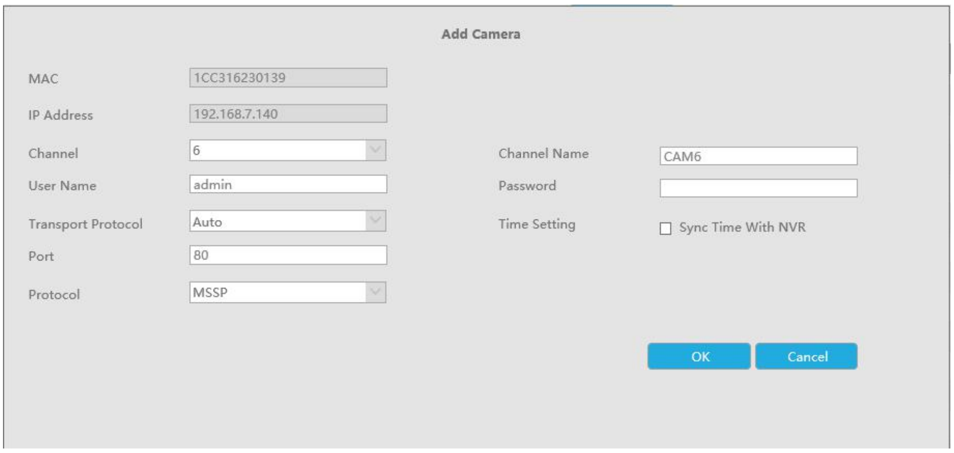
2. Click Search to search cameras at the same network segment with NVR.



Protocol: ALL
NIC: ALL
IP Range: 0 . 0 . 0 . 0 - 255. 255. 255. 255

■	No.	IP Address	Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
☐	1	192.168.2.111		-	80	ONVIF	LAN2	1CC316289074	46.7.0.75-a4	MS-C2964-SPB	Milesight Technology Co.,Ltd.
☐	2	192.168.2.147		-	80	ONVIF	LAN2	1CC316230744			
☐	3	192.168.3.185		-	80	ONVIF	LAN2	1CC316252683	43.7.0.76-r1	MS-C2941-X42RPB	Milesight Technology Co.,Ltd.
☐	4	192.168.4.105		-	80	ONVIF	LAN2	1CC31628FF16	45.7.0.75-r1-a2	MS-C8175-PC	Milesight Technology Co.,Ltd.
☐	5	192.168.4.108		-	80	ONVIF	LAN2	1CC316290569	45.7.0.75-r1-a3	MS-C5375-HEPC	Milesight Technology Co.,Ltd.
☐	6	192.168.4.112		-	80	ONVIF	LAN2	1CC31625094D	43.7.1.75-r5	NC5372-HFPB	IPCAM
☐	7	192.168.4.116		-	80	ONVIF	LAN2	1CC316288C88	46.7.0.76-f	MS-C2973-SPB	Milesight Technology Co.,Ltd.
☐	8	192.168.4.139		-	80	ONVIF	LAN2	1CC31628906F	46.7.0.76-a4	MS-C2964-SPB	Milesight Technology Co.,Ltd.
☐	9	192.168.4.162		-	80	ONVIF	LAN2	1CC316282E13	45.7.0.75-af-a3	MS-C2941-X30RPC	Milesight Technology Co.,Ltd.
☐	10	192.168.4.190		-	80	ONVIF	LAN2	1CC31625B5F9	43.7.0.76-a2	MS-C8165-PB	Milesight Technology Co.,Ltd.
☐	11	192.168.4.200		-	80	ONVIF	LAN2	1CC31627E613	43.7.0.76	MS-C2941-X23RPB	Milesight Technology Co.,Ltd.
☐	12	192.168.4.211		-	80	ONVIF	LAN2	1CC3162643D8	43.7.0.76-LPR2-a4	MS-C2941-X23RLxPB	Milesight Technology Co.,Ltd.
☐	13	192.168.4.248		-	80	ONVIF	LAN2	1CC3162460B7	41.7.0.75-r5	MS-C5375-EPB	Milesight Technology Co.,Ltd.
☐	14	192.168.4.253		-	80	ONVIF	LAN2	1CC316287C75	45.7.0.75-vca-t9	MS-C2864-RFPC	Milesight Technology Co.,Ltd.
☐	15	192.168.7.74		-	80	ONVIF	LAN2	1CC3162460AA	41.7.0.75-r5	MS-C5375-EPB	Milesight Technology Co.,Ltd.
☐	16	192.168.7.75		-	80	ONVIF	LAN2	1CC31621666C	41.7.0.76	MS-C4472-FIPB	Milesight Technology Co.,Ltd.

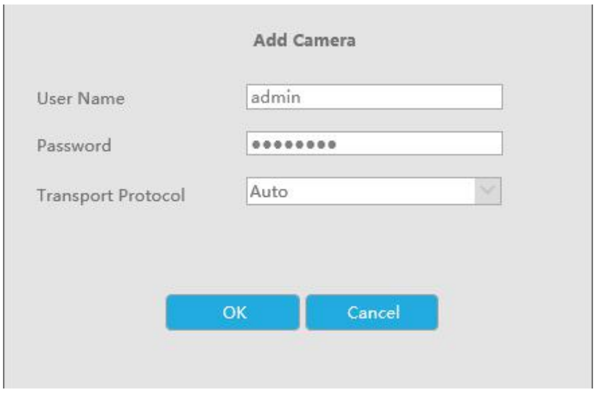
3. Select one channel, click Add button, input password and click OK to finish.



Add Camera

MAC	1CC316230139		
IP Address	192.168.7.140		
Channel	6	Channel Name	CAM6
User Name	admin	Password	
Transport Protocol	Auto	Time Setting	☐ Sync Time With NVR
Port	80		
Protocol	MSSP		

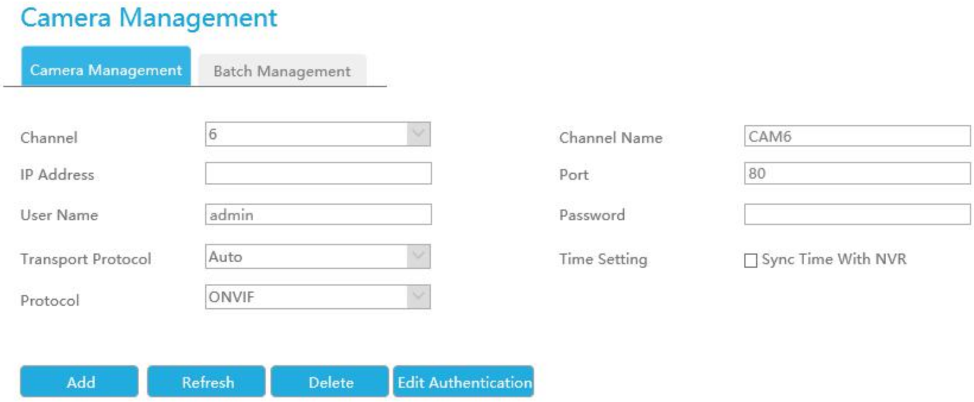
3. Or you can check ☐ to **batch adding** the network cameras if they are of the same password, and you can choose TCP, UDP or Auto transport protocol for it. Click OK to finish batch adding.



Add Camera

User Name	admin
Password	••••••••
Transport Protocol	Auto

Method2. Add camera through camera management interface. 'Settings' → 'Camera' → 'Camera Management'.



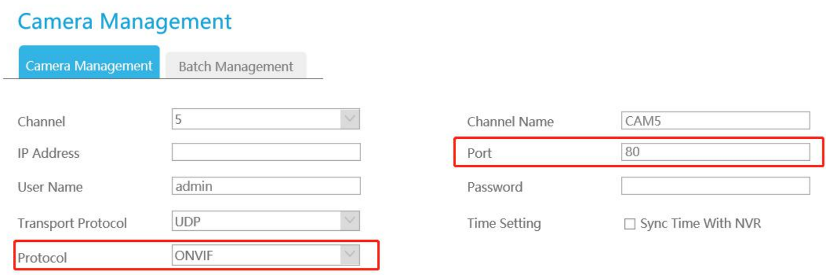
Camera Management

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

Select channel id, input complete information, then click Add button.

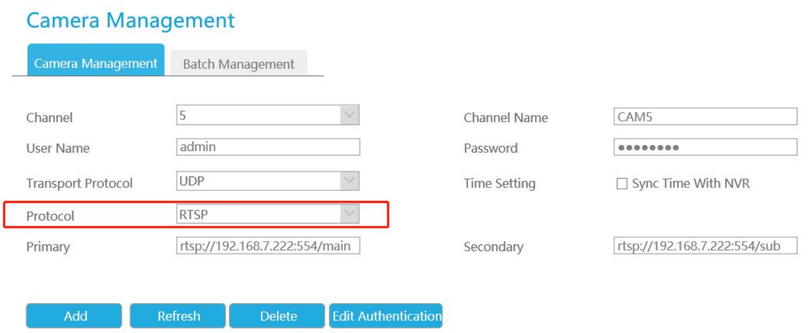
There are three protocols available for camera connection:

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



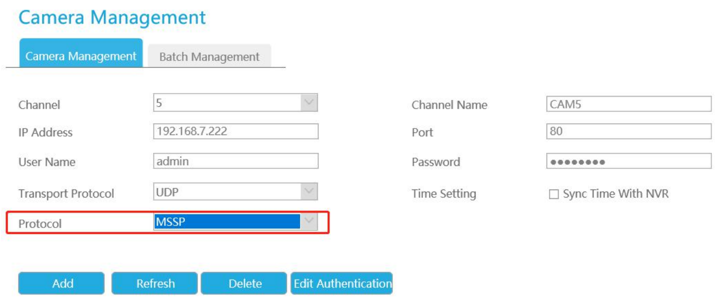
Channel: 5
IP Address:
User Name: admin
Transport Protocol: UDP
Protocol: ONVIF
Channel Name: CAM5
Port: 80
Password:
Time Setting: ☐ Sync Time With NVR

- **RTSP:** You can add any IP cameras with RTSP protocol streams (Port: 554). It needs you to input complete resource path of the IP camera to add it. Take Milesight device for example, the resource path of main stream is "rtsp://IP:port/main" and second stream is "rtsp://IP:port/sub". The length of RTSP can be up to 128 bits.



Channel: 5
User Name: admin
Transport Protocol: UDP
Protocol: RTSP
Primary: rtsp://192.168.7.222:554/main
Channel Name: CAM5
Password: ●●●●●●●●
Time Setting: ☐ Sync Time With NVR
Secondary: rtsp://192.168.7.222:554/sub

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

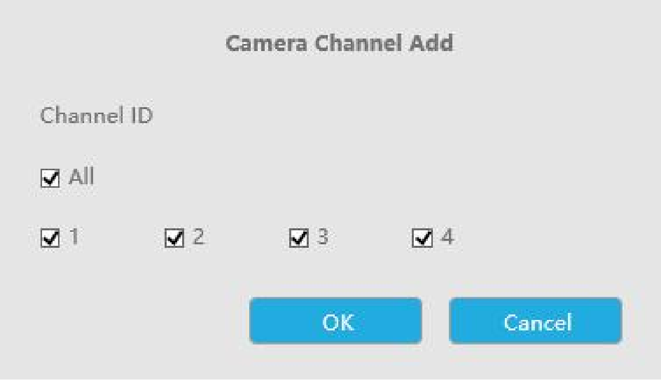


Channel: 5
IP Address: 192.168.7.222
User Name: admin
Transport Protocol: UDP
Protocol: MSSP
Channel Name: CAM5
Port: 80
Password: ●●●●●●●●
Time Setting: ☐ Sync Time With NVR

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.



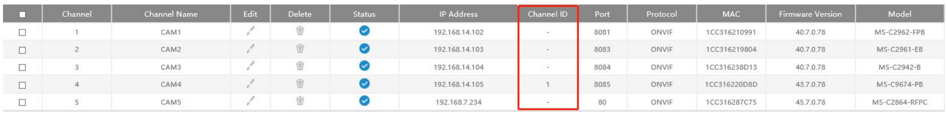
Camera Channel Add

Channel ID

☑ All

☑ 1 ☑ 2 ☑ 3 ☑ 4

2. Only Fisheye camera has Channel ID, which depends on its Display Mode. For Example, if a Fisheye camera's Display Mode is 1O3R, 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.

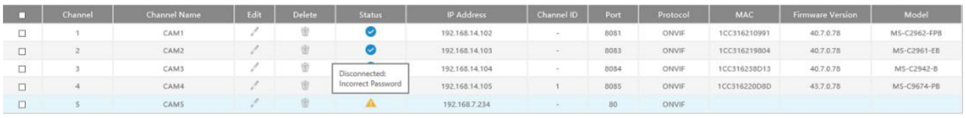


■	Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
☐	1	CAM1	✎	🗑	✓	192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
☐	2	CAM2	✎	🗑	✓	192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
☐	3	CAM3	✎	🗑	✓	192.168.14.104	-	8084	ONVIF	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

Step2. Check the connection status.

After adding the IP channels, click Refresh on Camera Management interface, then ✓ appears under Status.

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

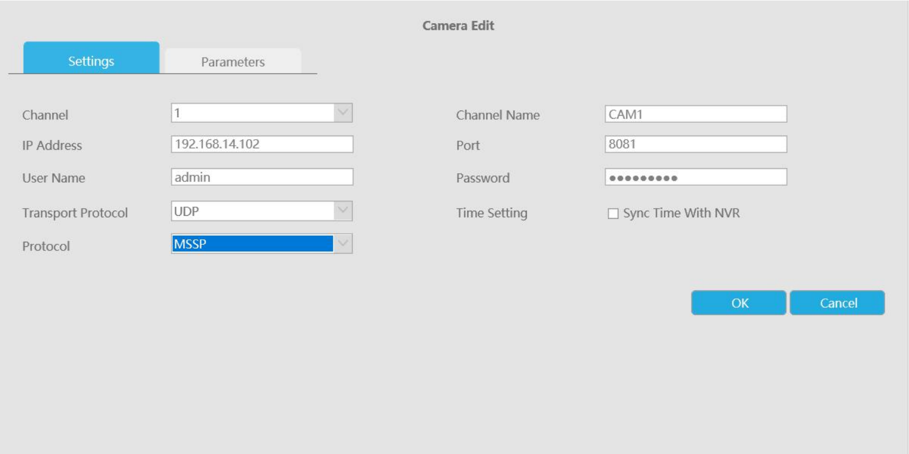


■	Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
☐	1	CAM1	✎	🗑	✓	192.168.14.102	-	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
☐	2	CAM2	✎	🗑	✓	192.168.14.103	-	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
☐	3	CAM3	✎	🗑	Disconnected: Incorrect Password	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			

Step3. Configure IP Channel.

Configure one camera

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



Camera Edit

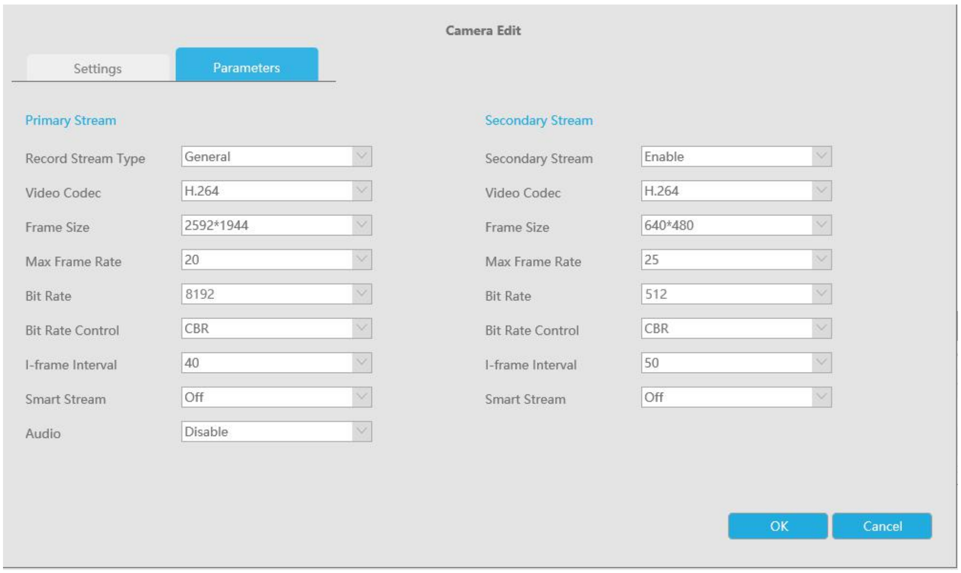
Channel	1	Channel Name	CAM1
IP Address	192.168.14.102	Port	8081
User Name	admin	Password	●●●●●●●●●
Transport Protocol	UDP	Time Setting	☐ Sync Time With NVR
Protocol	MSSP		

Go to Parameters page to re-edit parameters of this channel,select the Record Stream Type as General or Event to set different parameters separately. It is recommended to set lower parameters for General Stream to save certain storage. Click OK to save after your configuration.

Note:

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

2.Make sure your IPC’s firmware version is 4X7.0.75 or above.



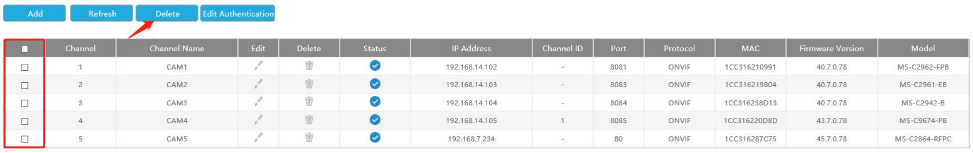
Primary Stream

Record Stream Type: General
Video Codec: H.264
Frame Size: 2592*1944
Max Frame Rate: 20
Bit Rate: 8192
Bit Rate Control: CBR
I-frame Interval: 40
Smart Stream: Off
Audio: Disable

Secondary Stream

Secondary Stream: Enable
Video Codec: H.264
Frame Size: 640*480
Max Frame Rate: 25
Bit Rate: 512
Bit Rate Control: CBR
I-frame Interval: 50
Smart Stream: Off

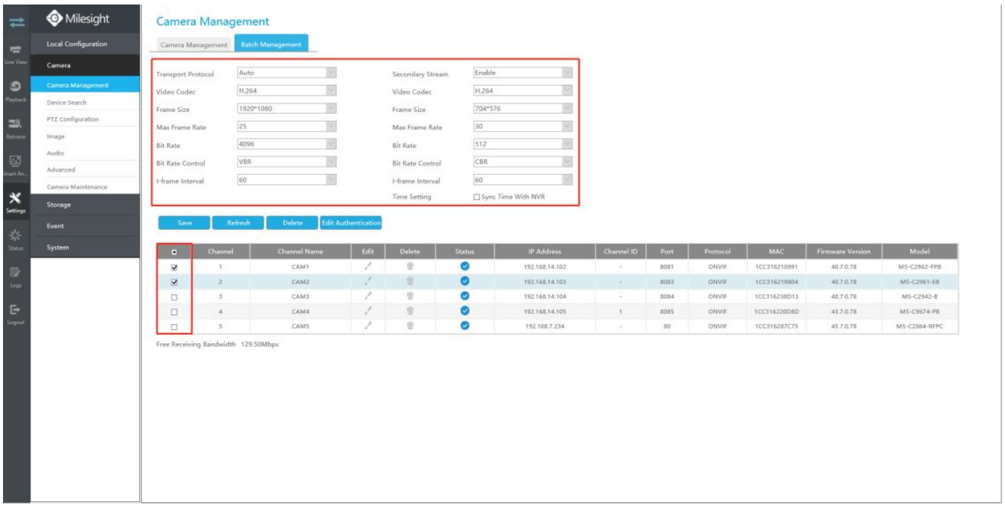
You can delete this channel by clicking 🗑, or you can select multiple devices and then click Delete to delete.



☐	Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmware Version	Model
☐	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

Batch configuring camera

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



Camera Management

Camera Management | Batch Management

Transport Protocol	Auto	Secondary Stream	Enable
Video Codec	H.264	Video Codec	H.264
Frame Size	1920*1080	Frame Size	704*576
Max Frame Rate	25	Max Frame Rate	30
Bit Rate	4096	Bit Rate	512
Bit Rate Control	VBR	Bit Rate Control	CBR
I-frame Interval	60	I-frame Interval	60
		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	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

Free Receiving Bandwidth 129.50Mbps

Note:

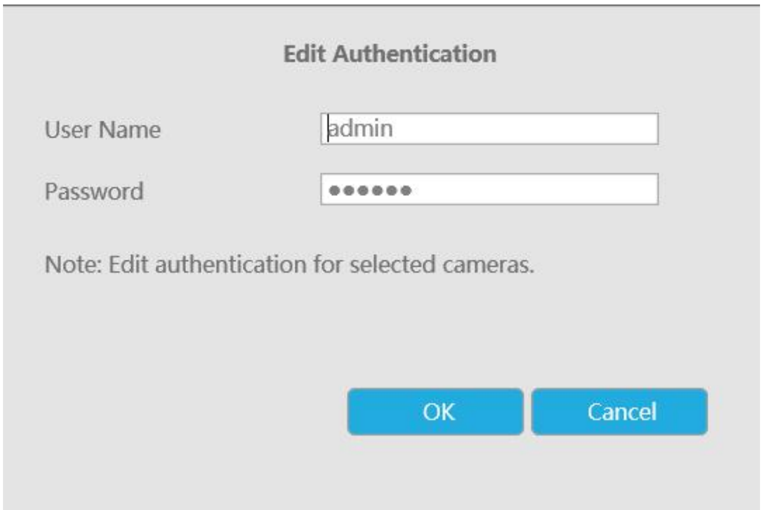
The user name and password entered here are the default user name and password. The management port is 80 and the default Transport protocol is UDP.

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	admin
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.

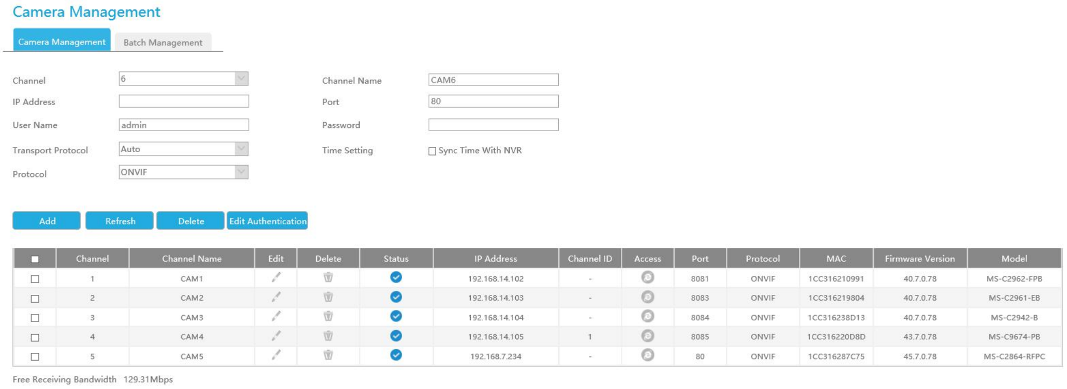
2. The steps for adding the **third party PoE cameras** plugged into Milesight PoE NVR:

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 Search to search out cameras;

③ Select cameras and click Add 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

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

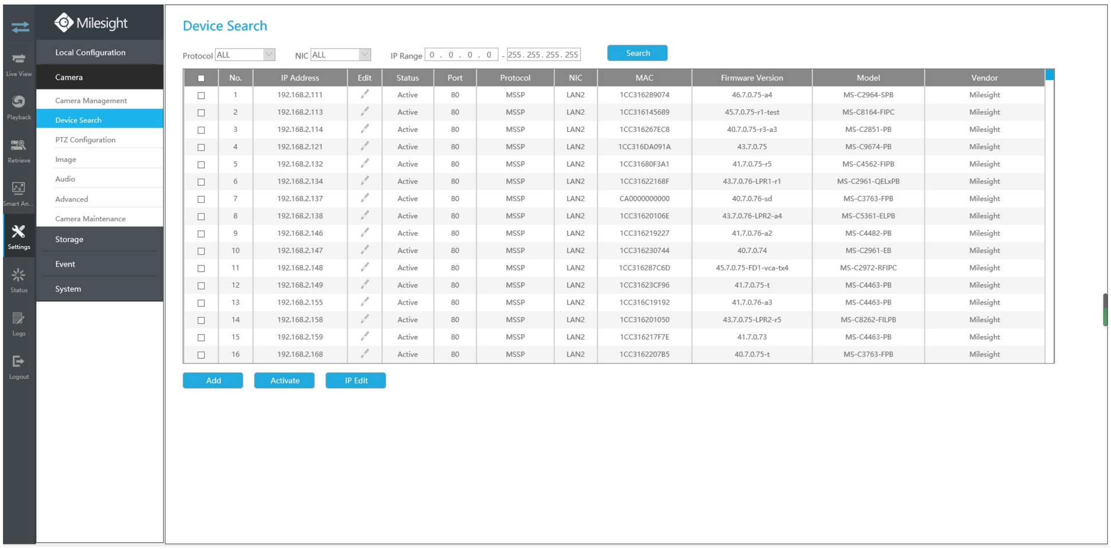
■	Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Access	Port	Protocol	MAC	Firmware Version	Model
☐	1	CAM1	✎	🗑	✓	192.168.14.102	-	◎	8081	ONVIF	1CC316210991	40.7.0.78	MS-C2962-FPB
☐	2	CAM2	✎	🗑	✓	192.168.14.103	-	◎	8083	ONVIF	1CC316219804	40.7.0.78	MS-C2961-EB
☐	3	CAM3	✎	🗑	✓	192.168.14.104	-	◎	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-RFPC

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

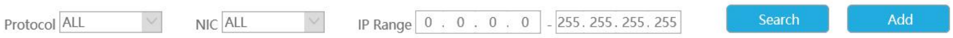


Device Search

Protocol ALL NIC ALL IP Range 0 . 0 . 0 . 0 - 255 . 255 . 255 . 255

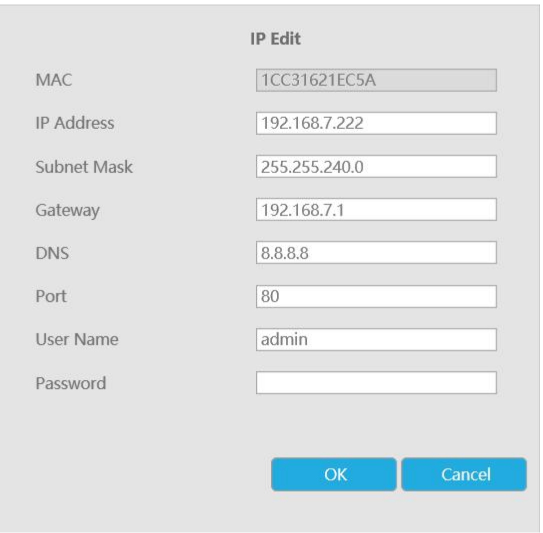
■	No.	IP Address	Edit	Status	Port	Protocol	NIC	MAC	Firmware Version	Model	Vendor
☐	1	192.168.2.111	✎	Active	80	MSSP	LAN2	1CC316289074	46.7.0.75-a4	MS-C2964-SPB	Milesight
☐	2	192.168.2.113	✎	Active	80	MSSP	LAN2	1CC316145689	45.7.0.75-r1-test	MS-C8164-FIPC	Milesight
☐	3	192.168.2.114	✎	Active	80	MSSP	LAN2	1CC316267EC8	40.7.0.75-r3-a3	MS-C2851-PB	Milesight
☐	4	192.168.2.121	✎	Active	80	MSSP	LAN2	1CC316DA091A	43.7.0.75	MS-C9674-PB	Milesight
☐	5	192.168.2.132	✎	Active	80	MSSP	LAN2	1CC31680F3A1	41.7.0.75-r5	MS-C4562-FIPB	Milesight
☐	6	192.168.2.134	✎	Active	80	MSSP	LAN2	1CC31622168F	43.7.0.76-LPR1-r1	MS-C2961-QELxPB	Milesight
☐	7	192.168.2.137	✎	Active	80	MSSP	LAN2	CA0000000000	40.7.0.76-sd	MS-C3763-FPB	Milesight
☐	8	192.168.2.138	✎	Active	80	MSSP	LAN2	1CC31620106E	43.7.0.76-LPR2-a4	MS-C5361-ELPB	Milesight
☐	9	192.168.2.146	✎	Active	80	MSSP	LAN2	1CC316219227	41.7.0.76-a2	MS-C4482-PB	Milesight
☐	10	192.168.2.147	✎	Active	80	MSSP	LAN2	1CC316230744	40.7.0.74	MS-C2961-EB	Milesight
☐	11	192.168.2.148	✎	Active	80	MSSP	LAN2	1CC316287C6D	45.7.0.75-FD1-vca-tx4	MS-C2972-RFIPC	Milesight
☐	12	192.168.2.149	✎	Active	80	MSSP	LAN2	1CC31623CF96	41.7.0.75-t	MS-C4463-PB	Milesight
☐	13	192.168.2.155	✎	Active	80	MSSP	LAN2	1CC316C19192	41.7.0.76-a3	MS-C4463-PB	Milesight
☐	14	192.168.2.158	✎	Active	80	MSSP	LAN2	1CC316201050	43.7.0.75-LPR2-r5	MS-C8262-FILPB	Milesight
☐	15	192.168.2.159	✎	Active	80	MSSP	LAN2	1CC316217F7E	41.7.0.73	MS-C4463-PB	Milesight
☐	16	192.168.2.168	✎	Active	80	MSSP	LAN2	1CC3162207B5	40.7.0.75-t	MS-C3763-FPB	Milesight

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 ALL
NIC ALL
IP Range 0 . 0 . 0 . 0 - 255 . 255 . 255 . 255

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.

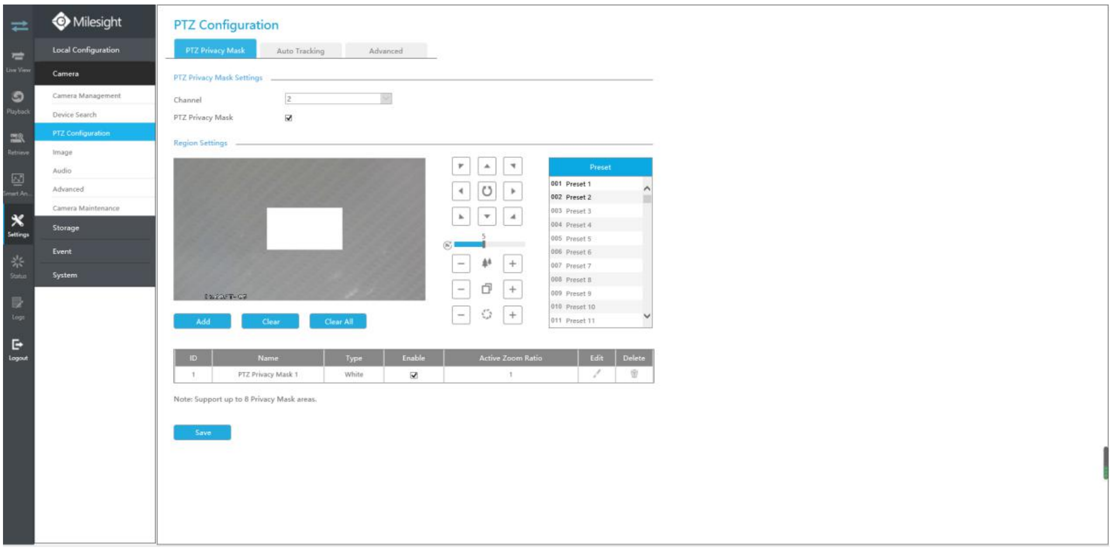

IP Edit

MAC	1CC31621EC5A
IP Address	192.168.7.222
Subnet Mask	255.255.240.0
Gateway	192.168.7.1
DNS	8.8.8.8
Port	80
User Name	admin
Password	

4.8.2.3 PTZ Configuration

PTZ Privacy Mask

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



Channel: 2

PTZ Privacy Mask: ☑

ID	Name	Type	Enable	Active Zoom Ratio	Edit	Delete
1	PTZ Privacy Mask 1	White	☑	1	✎	🗑

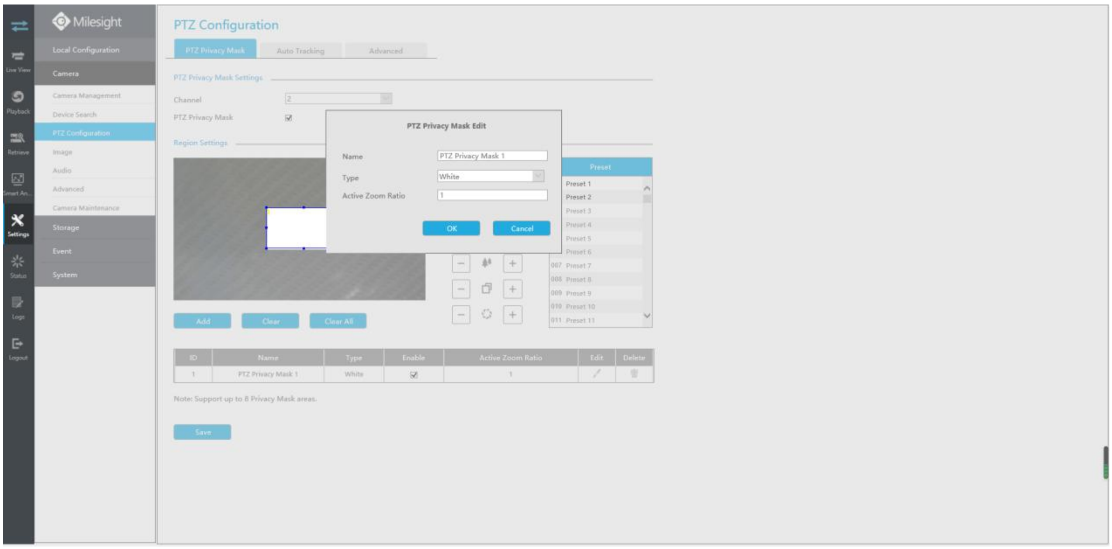
Note: Support up to 8 Privacy Mask areas.

You can add a privacy mask by following steps:

Step1. Select channel and enable Privacy Mask.

Step2. Drag the mouse to select the area which needs to be protected on the live view window and click Add to save the selected areas. You can add 8 areas at most and each zone can be enabled and disabled.

Step3. Click ✎ to edit PTZ Privacy Mask Name, the Privacy Mask Type and Active Zoom Ratio.



Name: PTZ Privacy Mask 1

Type: White

Active Zoom Ratio: 1

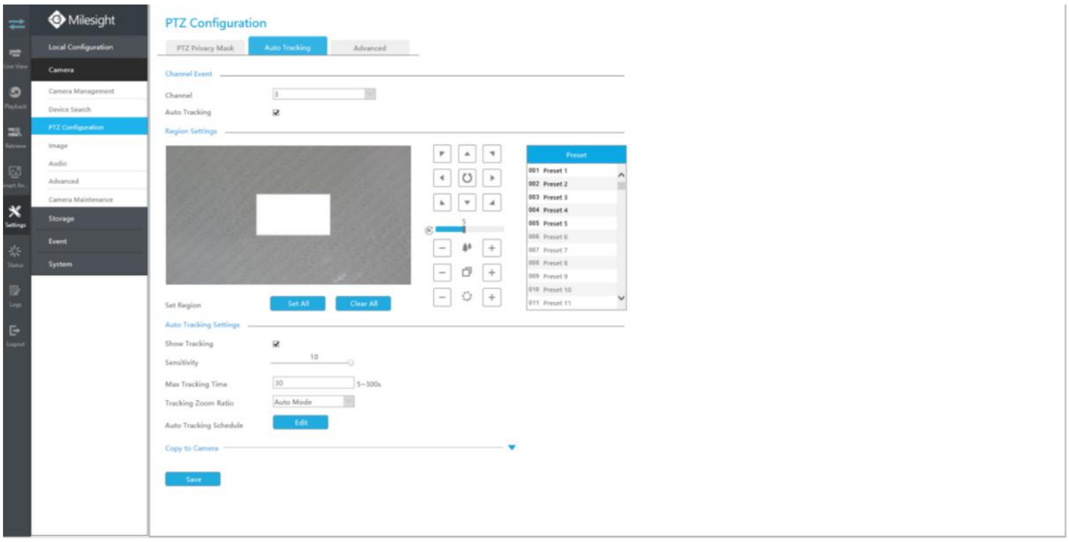
Step4. Select "Apply" to save the settings.

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.



PTZ Configuration

Channel Event

Channel: 3

Auto Tracking: ☑

Region Settings

Set Region

001 Preset 1
002 Preset 2
003 Preset 3
004 Preset 4
005 Preset 5
006 Preset 6
007 Preset 7
008 Preset 8
009 Preset 9
010 Preset 10
011 Preset 11

Auto Tracking Settings

Show Tracking: ☑

Sensitivity: 10

Max Tracking Time: 30 5~300s

Tracking Zoom Ratio: Auto Mode

Auto Tracking Schedule

Copy to Camera

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.

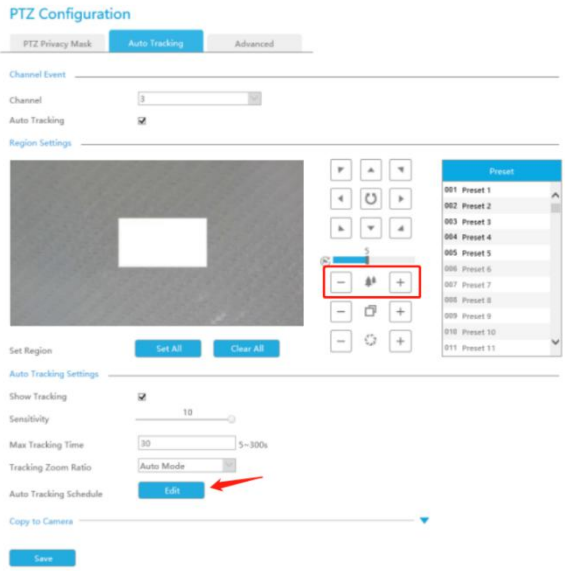
Step6. Select Tracking Zoom Ratio, which includes Auto Mode and Customize.

● 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 Set to save your configuration.



Channel: 3

Auto Tracking: ☑

001 Preset 1
002 Preset 2
003 Preset 3
004 Preset 4
005 Preset 5
006 Preset 6
007 Preset 7
008 Preset 8
009 Preset 9
010 Preset 10
011 Preset 11

Show Tracking: ☑

Sensitivity: 10

Max Tracking Time: 30 5~300s

Tracking Zoom Ratio: Auto Mode

Auto Tracking Schedule: Edit

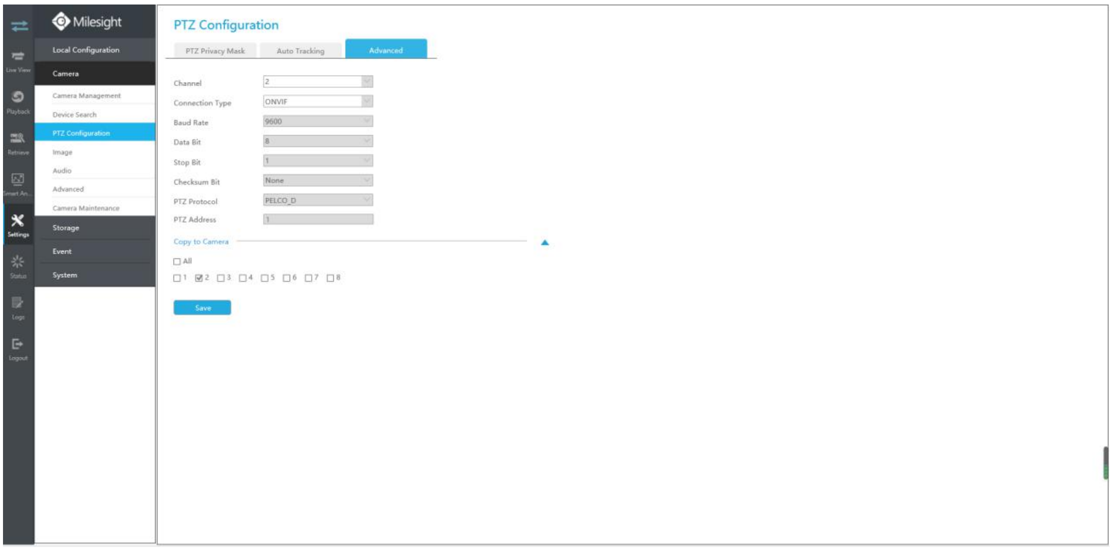
Step5. Click Edit to edit Auto Tracking Schedule which will be synchronized to IP Camera.

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.



Channel: 2

Connection Type: ONVIF

Baud Rate: 9600

Data Bit: 8

Stop Bit: 1

Checksum Bit: None

PTZ Protocol: PELCO_D

PTZ Address: 1

☐ All

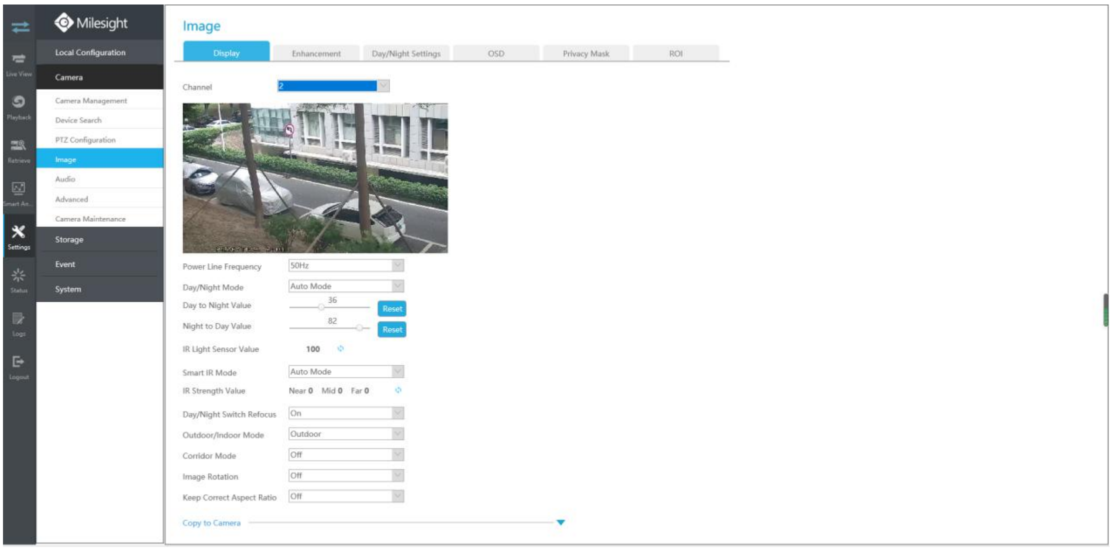
☐ 1 ☑ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

Note:

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

4.8.2.4 Image

Display



Channel: 2
Power Line Frequency: 50Hz
Day/Night Mode: Auto Mode
Day to Night Value: 36
Night to Day Value: 82
IR Light Sensor Value: 100
Smart IR Mode: Auto Mode
IR Strength Value: Near 0 Mid 0 Far 0
Day/Night Switch Refocus: On
Outdoor/Indoor Mode: Outdoor
Corridor Mode: Off
Image Rotation: Off
Keep Correct Aspect Ratio: Off

Step1. Select channel.

Step2. Set the configuration.

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

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

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

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

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

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

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

IR LED Level: Adjust the IR LED level from 1 to 100.

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

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

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

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

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

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

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

Corridor Mode: Set corridor mode.

Image Rotation: Set image rotation.

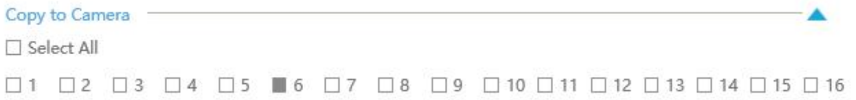
Local Display Video: Select NTSC or PAL for local display.

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

Note:

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

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



Copy to Camera

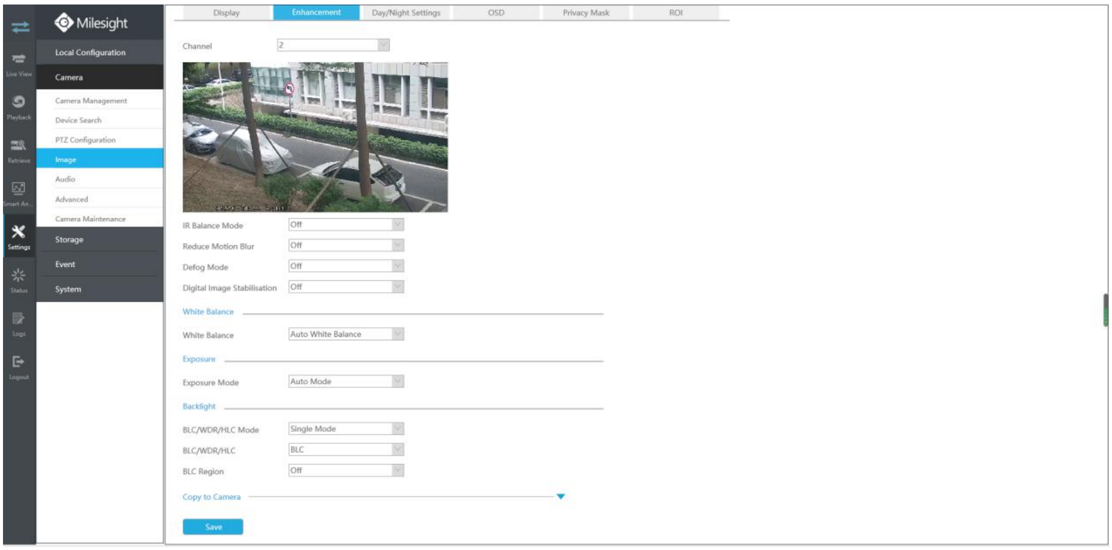
☐ Select All

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

Step4. Click save to save the settings.

Enhancement

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



Channel: 2

IR Balance Mode: Off

Reduce Motion Blur: Off

Defog Mode: Off

Digital Image Stabilisation: Off

White Balance: Auto White Balance

Exposure Mode: Auto Mode

BLC/WDR/HLC Mode: Single Mode

BLC/WDR/HLC: BLC

BLC Region: Off

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.

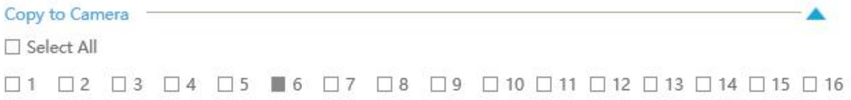
White Balance: Choose a white balance mode for the channel.

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.

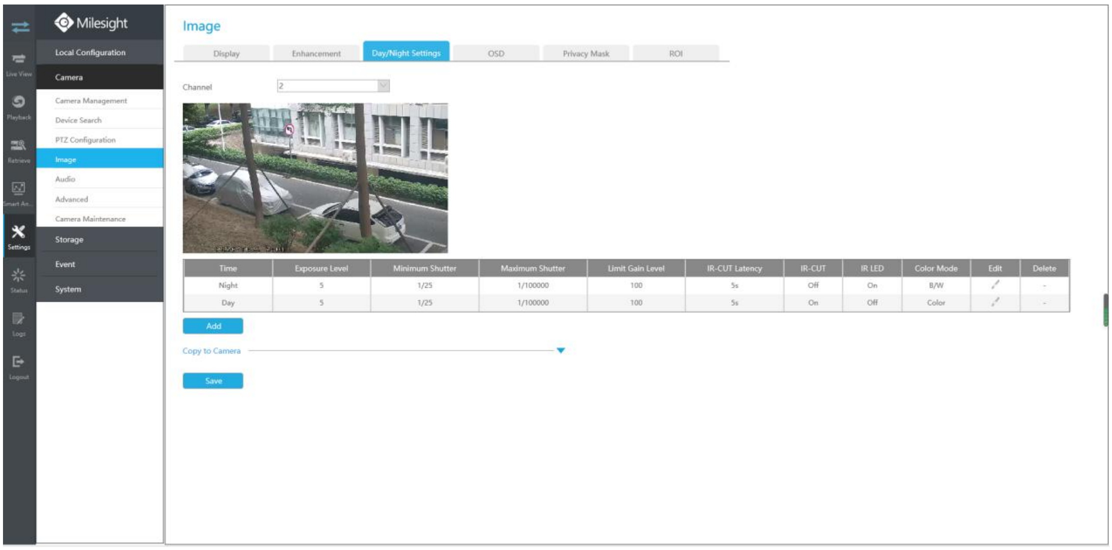
Step3. You can click [Copy to Camera] to copy the same configuration to other channels.



☐ Select All

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

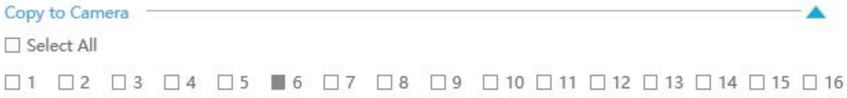
Step4. Click save to save the settings.
Day/Night Settings



Channel: 2

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	✎	-
Day	5	1/25	1/100000	100	5s	On	Off	Color	✎	-

Step1. Select channel.
Step2. Set the configuration.
Exposure Level: Level 0~10 are available to meet your need.
Minimum Shutter: Set the Minimum Shutter to 1~1/100000s.
Maximum Shutter: Set the Maximum Shutter to 1~1/100000s.
Limit Gain Level: Set the Limit Gain Level to 1~100.
IR-CUT Latency: The interval time of switching one mode to another.
IR-CUT: Turn on or turn off IR-CUT.
IR LED: Turn on or turn off IR-LED.
Color Mode: Select B/W or Color mode under Day/Night mode.
Edit: Edit the parameters above.
Step3. You can click [Copy to Camera] to copy the same configuration to other channels.


Copy to Camera

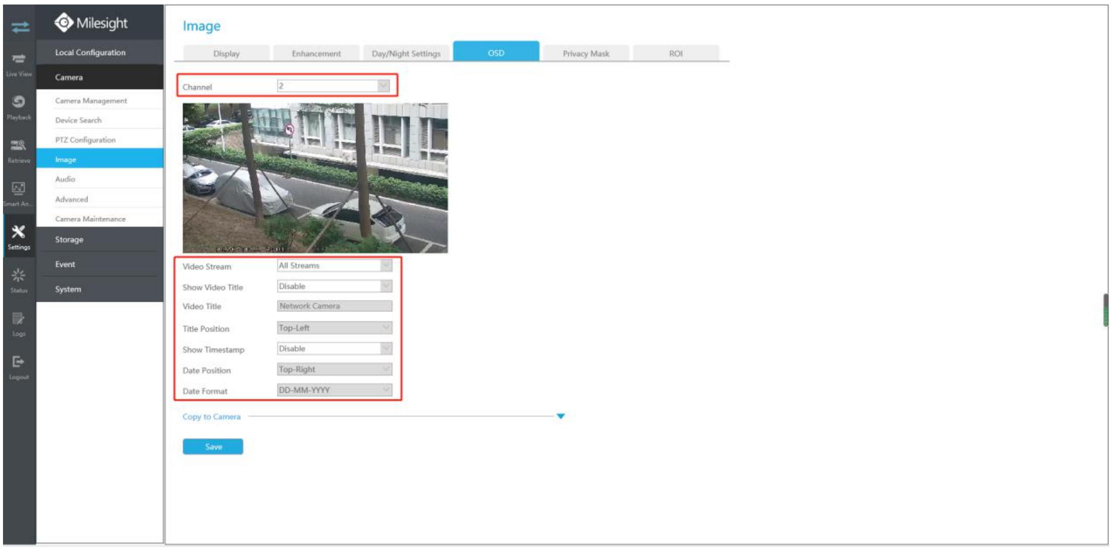
☐ Select All

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

Step4. Click save to save the settings.

OSD

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



Channel: 2

Video Stream: All Streams

Show Video Title: Disable

Video Title: Network Camera

Title Position: Top-Left

Show Timestamp: Disable

Date Position: Top-Right

Date Format: DD-MM-YYYY

Select channel and finish the info and save.

[Video Stream]: Select stream. All Streams, Primary Stream and Secondary Stream are available.

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

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

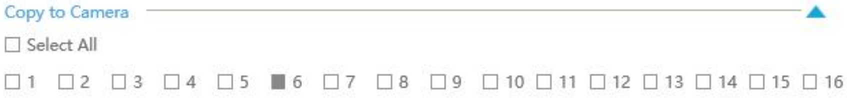
[Title Position]: Set the position for the video title: Top-Left, Top-Right, Bottom-Left or Bottom-Right.

[Show Timestamp]: Enable or disable timestamp.

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

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

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


Copy to Camera

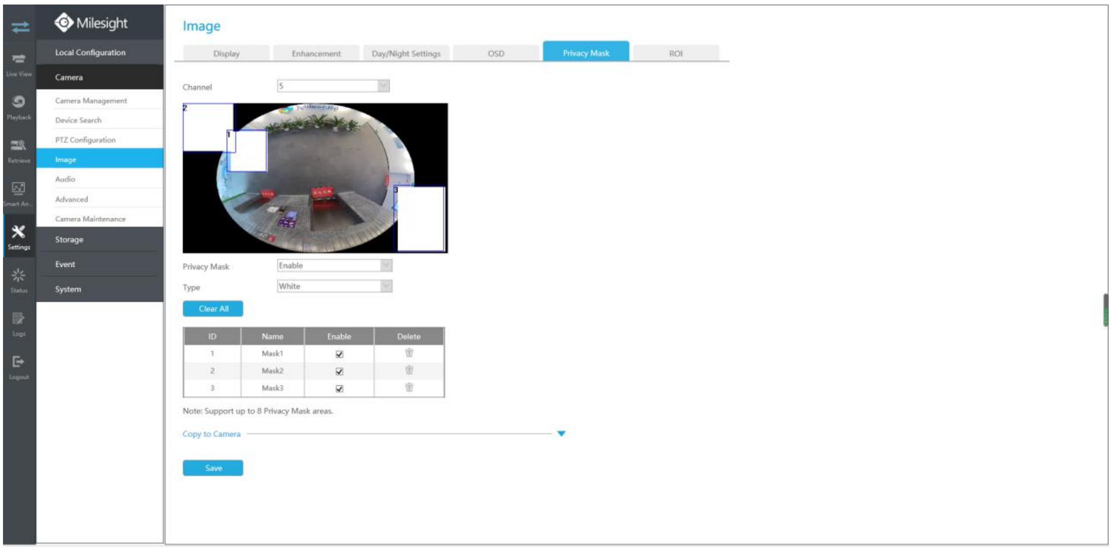
☐ Select All

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

Step4. Click save to save the settings.

Privacy Mask

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



Channel: 5

Privacy Mask: Enable

Type: White

ID	Name	Enable	Delete
1	Mask1	☑	🗑
2	Mask2	☑	🗑
3	Mask3	☑	🗑

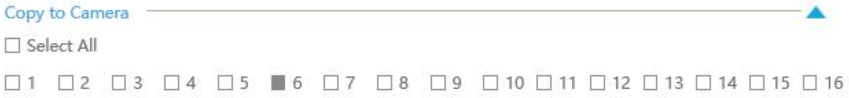
Note: Support up to 8 Privacy Mask areas.

You can add a privacy mask by following steps:

Step1. Select channel and enable privacy mask.

Step2. Set the privacy mask type and drag the mouse to select the area which is privacy on the live window. You can add 8 areas at most and each zone can be enabled and disabled.

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


Copy to Camera

☐ Select All

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

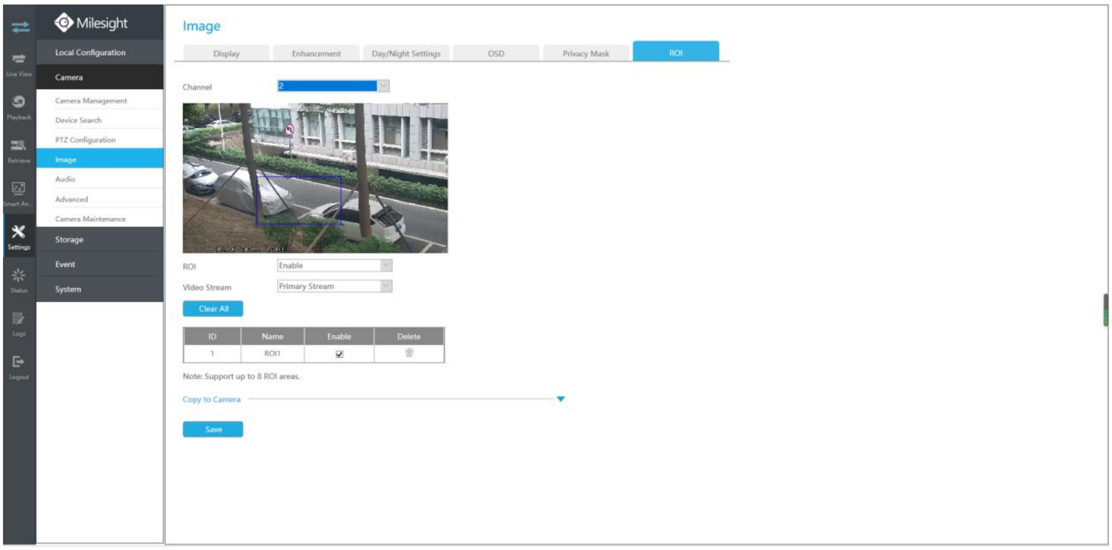
Step4. Click save to save the settings.

Note：

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

ROI

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



Channel: 2

ROI: Enable

Video Stream: Primary Stream

ID	Name	Enable	Delete
1	ROI1	☑	🗑

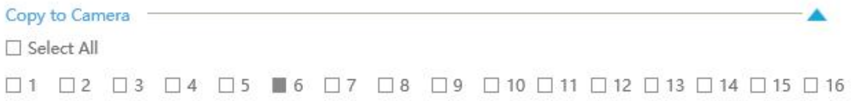
Note: Support up to 8 ROI areas.

You can add a ROI by following steps:

Step1. Select channel and enable ROI.

Step2. Set the video stream type and drag the mouse to select the area in the preview window. You can add 8 areas at most and each zone can be enabled and disabled.

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


Copy to Camera

☐ Select All

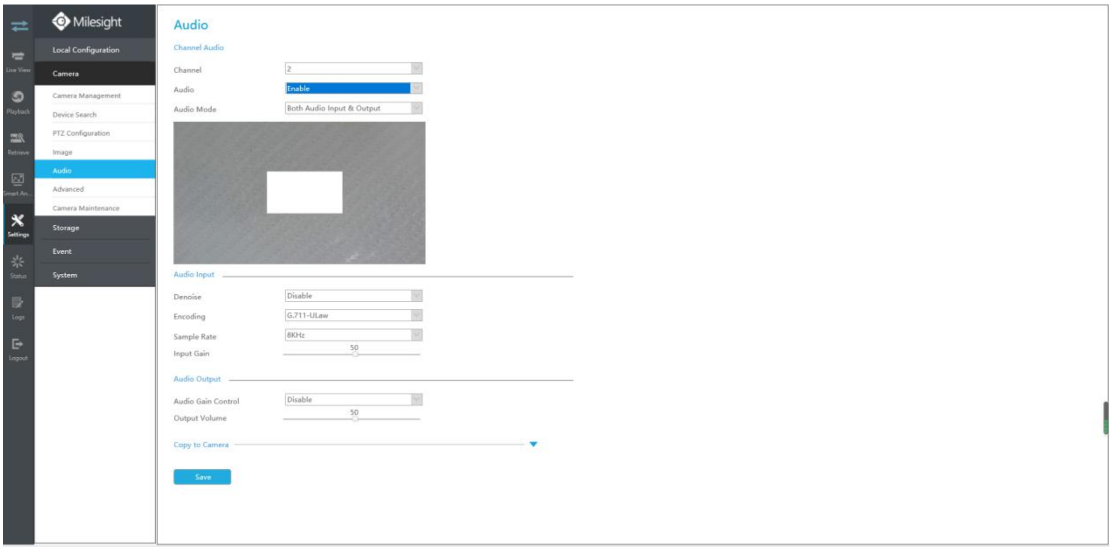
☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☑ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

Step4. Click save to save the settings.

Note:

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

4.8.2.5 Audio



Audio

Channel Audio

Channel: 2

Audio: Enable

Audio Mode: Both Audio Input & Output

Audio Input

Denoise: Disable

Encoding: G.711-ULaw

Sample Rate: 8KHz

Input Gain: 50

Audio Output

Audio Gain Control: Disable

Output Volume: 50

Copy to Camera

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.

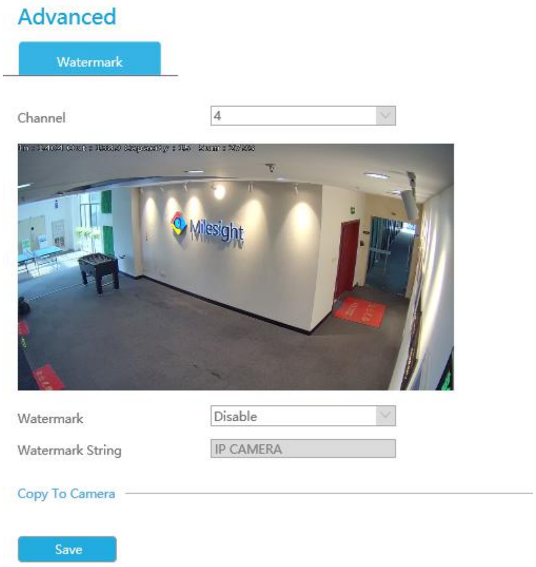
Output Volume: Adjust volume of output.

Note:

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

4.8.2.6 Advanced

4.8.2.6.1 Watermark



Channel: 4

Watermark: Disable

Watermark String: IP CAMERA

You can add a watermark by following steps:

Step1. Select channel.

Step2. Click the checkbox to enable Watermark.

Step3. Enter Watermark String.

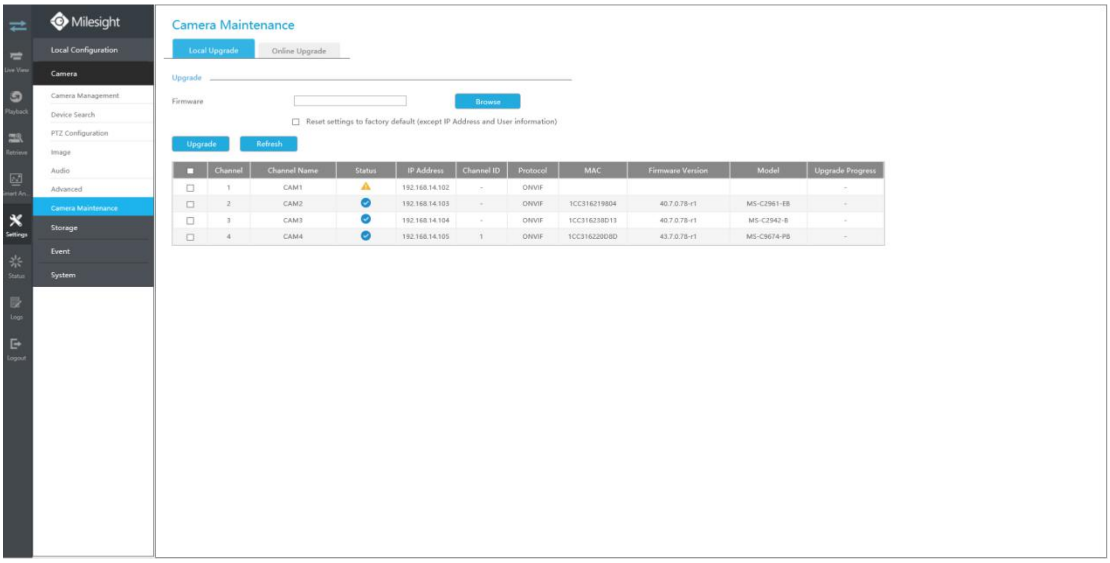
Step4. Copy the image settings to other channels.

Step5. Select Save to save the settings.

Note:

Watermark only appears when exporting by a third party.

4.8.2.7 Camera Maintenance



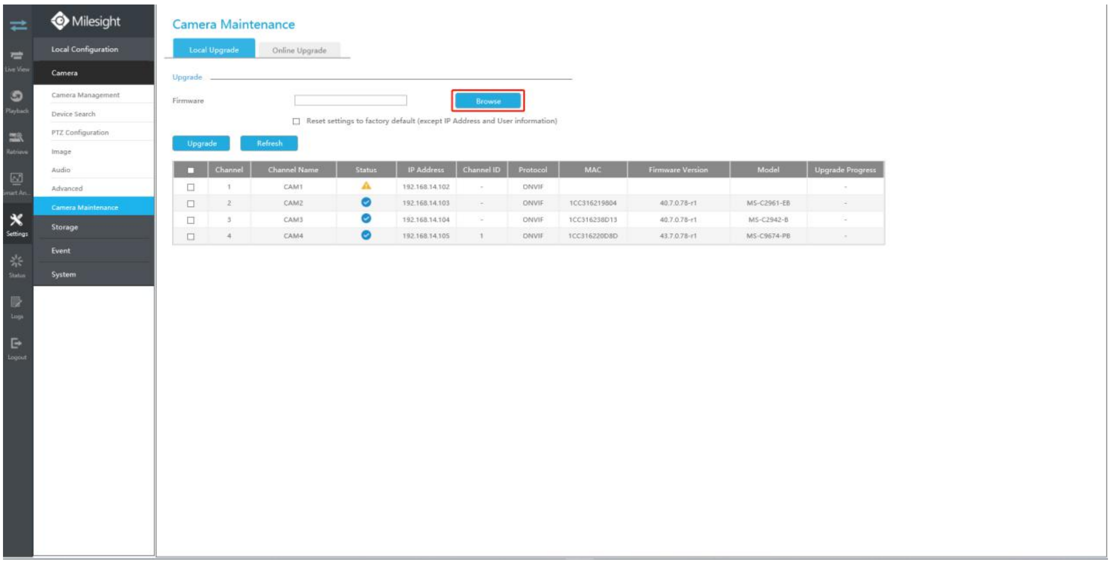
Firmware

☐ 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
☐	1	CAM1	⚠	192.168.14.102	-	ONVIF				-
☐	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	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-

Local Upgrade

Step1. Click **Browse** to select the corresponding firmware.

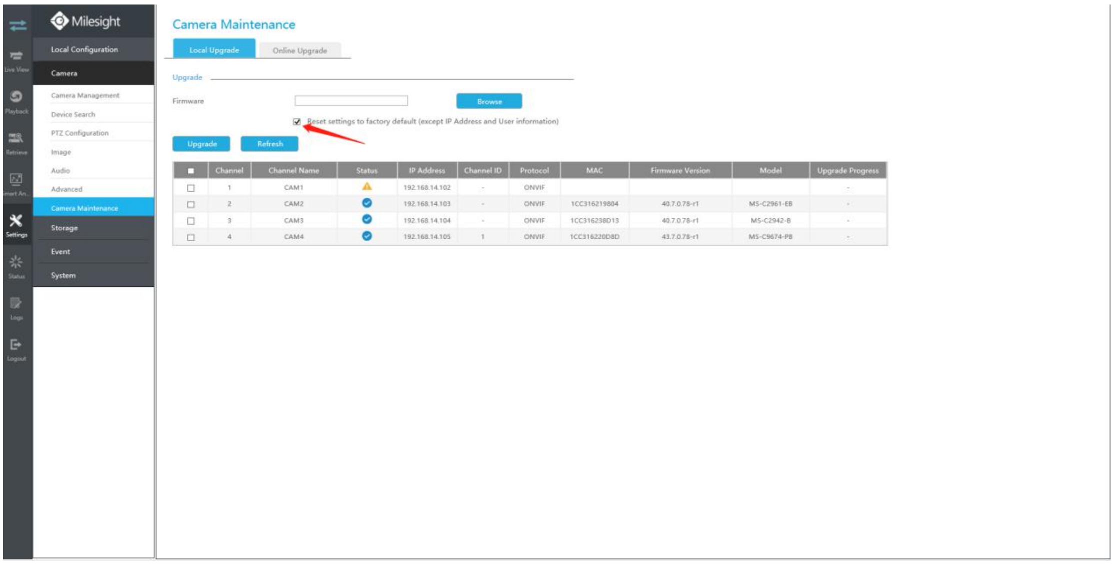


Firmware

☐ 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
☐	1	CAM1	⚠	192.168.14.102	-	ONVIF				-
☐	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	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-

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

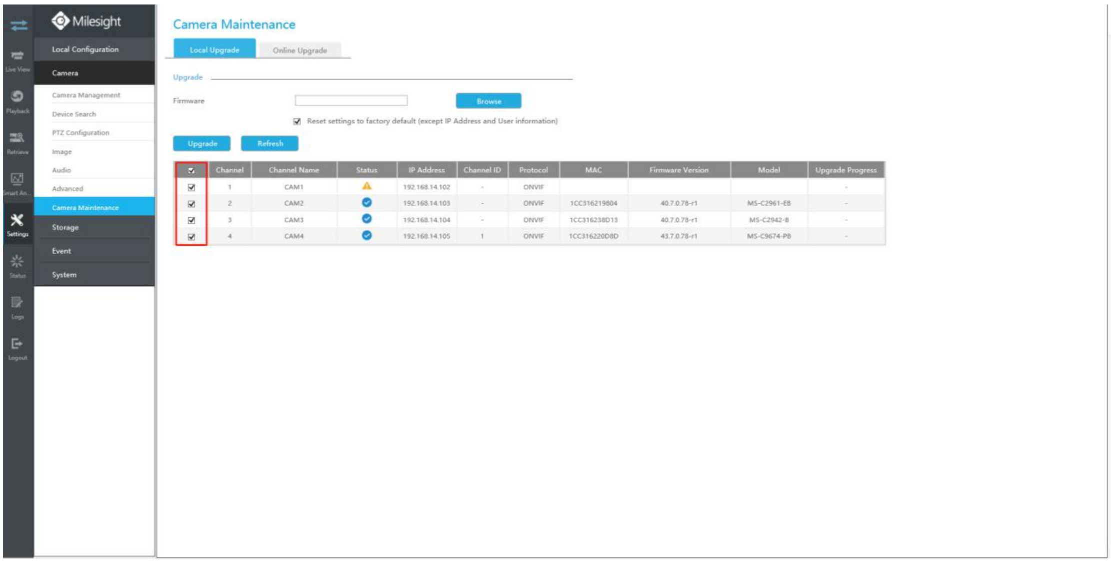


Firmware

☑ 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
☐	1	CAM1	⚠	192.168.14.102	-	ONVIF				-
☐	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	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-

Step3. Choose the corresponding channel you want to upgrade and click Upgrade to upgrade the camera.



Firmware

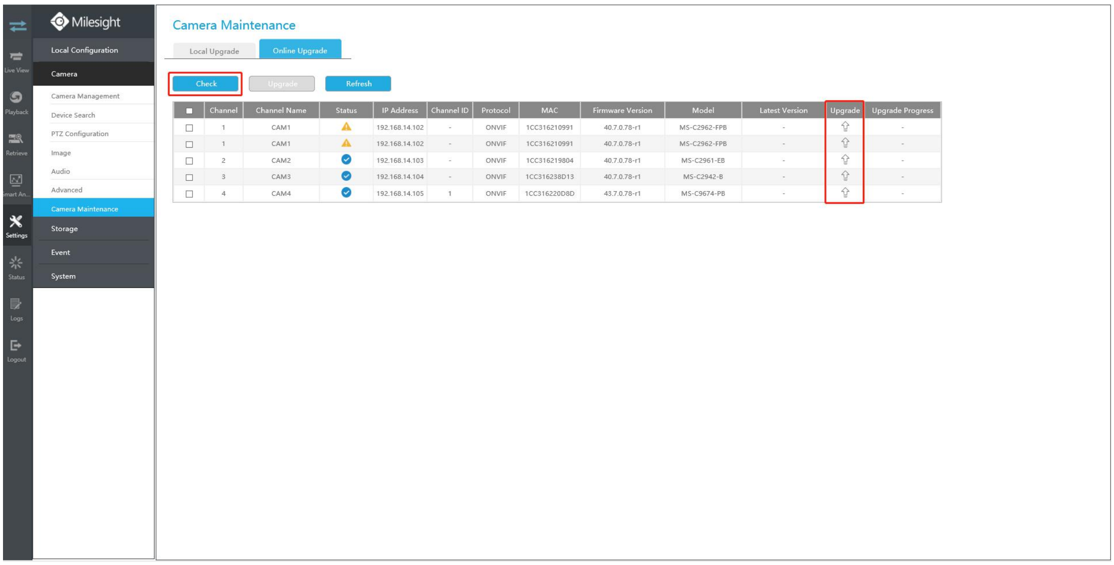
☑ Reset settings to factory default (except IP Address and User information)

☑	Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Upgrade Progress
☑	1	CAM1	⚠	192.168.14.102	-	ONVIF				-
☑	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	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-

Online Upgrade

Step1. Click Check to confirm whether there is a new version for the camera added to NVR;

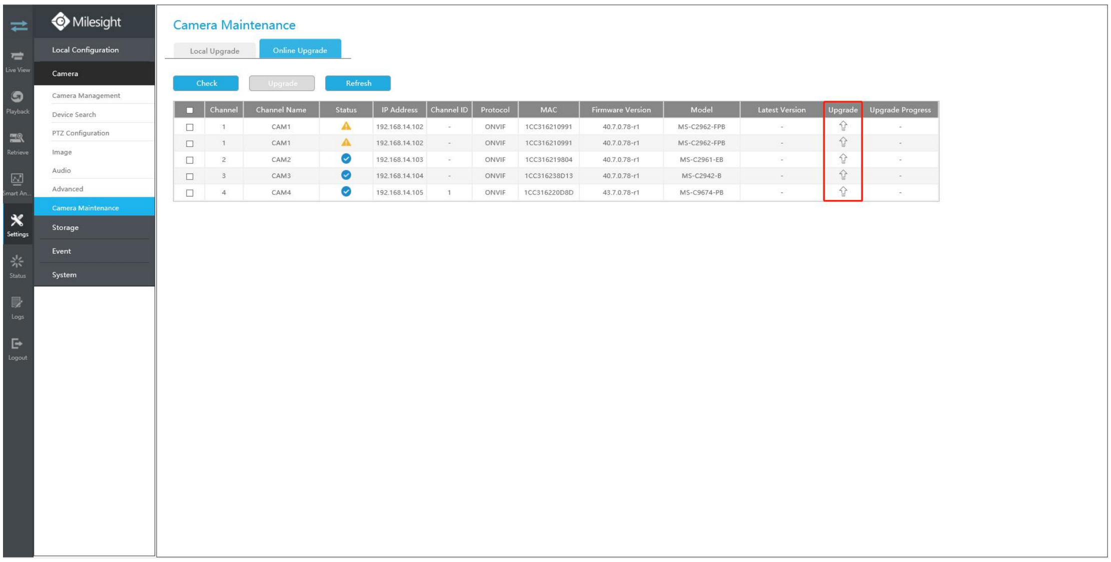
If there is a new version for camera, the icon in corresponding Upgrade column will turn blue and the latest version will be displayed in Latest Version column.



☐	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	-	⇧	-
☐	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	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-	⇧	-

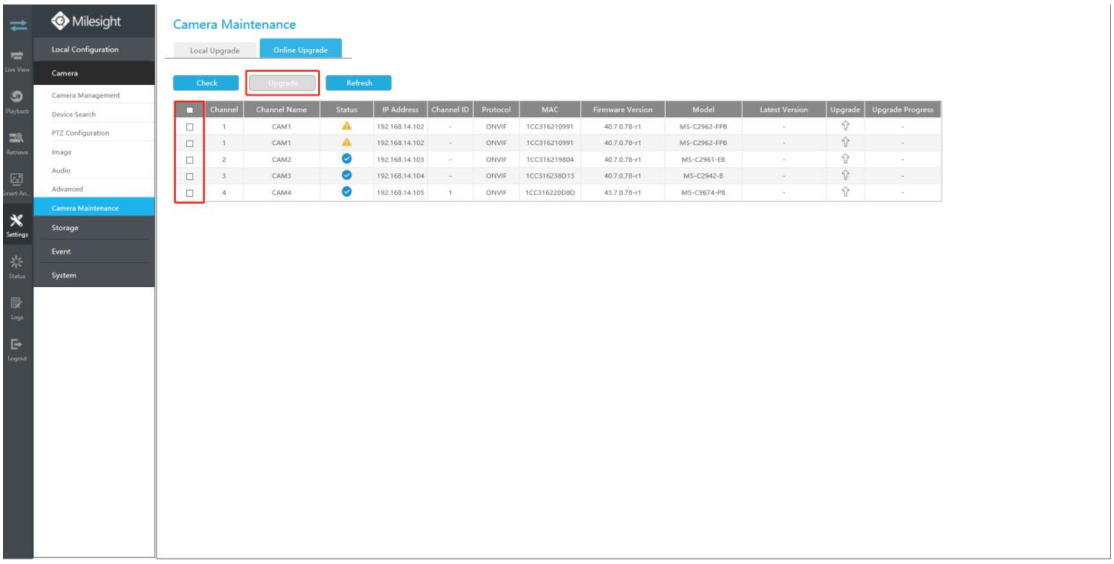
Step2. There are two ways to confirm the upgrade.

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



☐	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	-	⇧	-
☐	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	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-	⇧	-

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

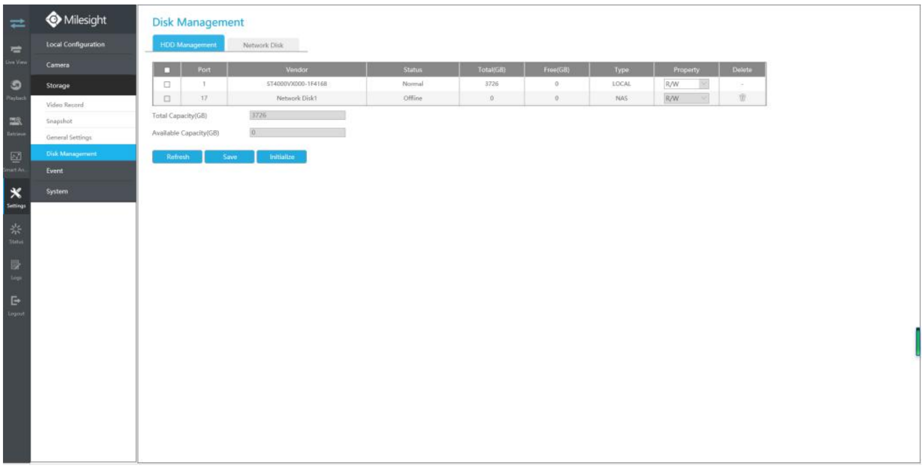


☐	Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgrade	Upgrade Progress
☐	1	CAM1	⚠	192.168.14.102	-	ONVIF	1CC316210991	40.7.0.78-r1	MS-C2962-FPB	-	⇧	-
☐	1	CAM1	⚠	192.168.14.102	-	ONVIF	1CC316210991	40.7.0.78-r1	MS-C2962-FPB	-	⇧	-
☐	2	CAM2	✓	192.168.14.103	-	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	1CC316220D8D	43.7.0.78-r1	MS-C9674-PB	-	⇧	-

4.8.3 Storage

Preparation for Configuration

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



☐	Port	Vendor	Status	Total(GB)	Free(GB)	Type	Property	Delete
☐	1	ST4000VX000-1F4168	Normal	3726	0	LOCAL	R/W	-
☐	17	Network Disk1	Offline	0	0	NAS	R/W	🗑

Total Capacity(GB) 3726

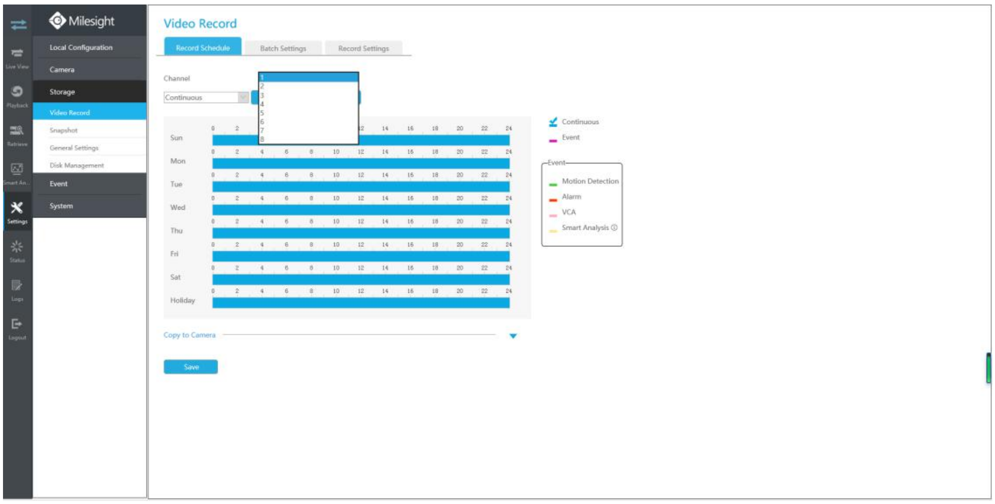
Available Capacity(GB) 0

4.8.3.1 Video Record

Record Schedule

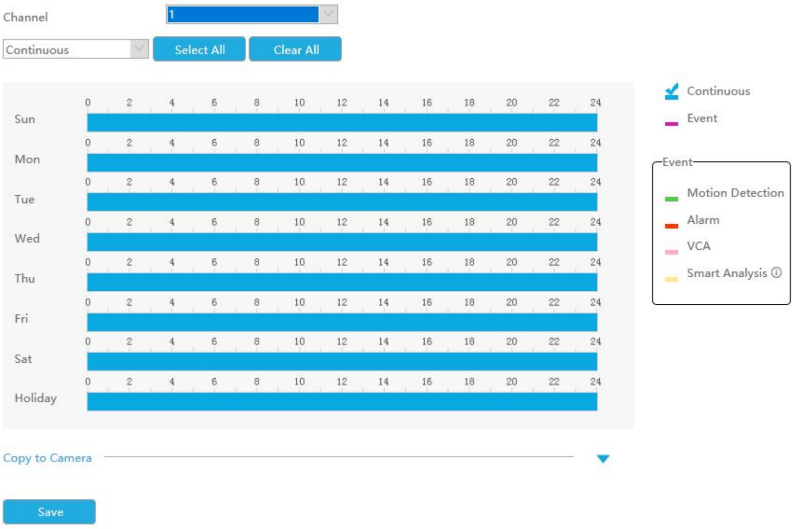
Step1. Select Record Schedule.

Step2. Select the desired channel.



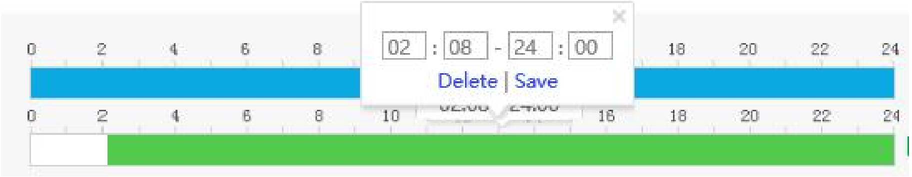
Step3. Set record schedule.

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 Select All or Clear All.

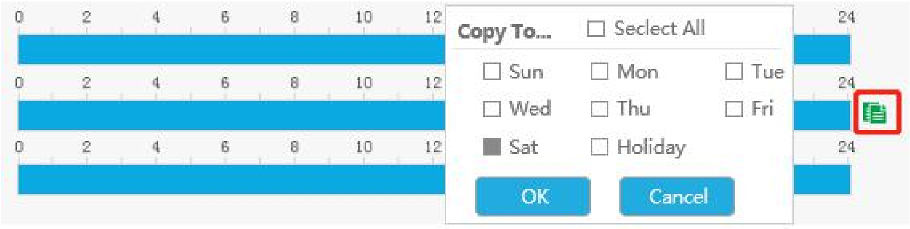

Channel: 1

Continuous

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


02 : 08 - 24 : 00

Click to copy time setting to other days.


Copy To...

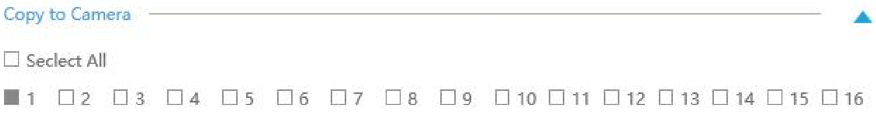
☐ Seclect All

☐ Sun ☐ Mon ☐ Tue

☐ Wed ☐ Thu ☐ Fri

■ Sat ☐ Holiday

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



Copy to Camera

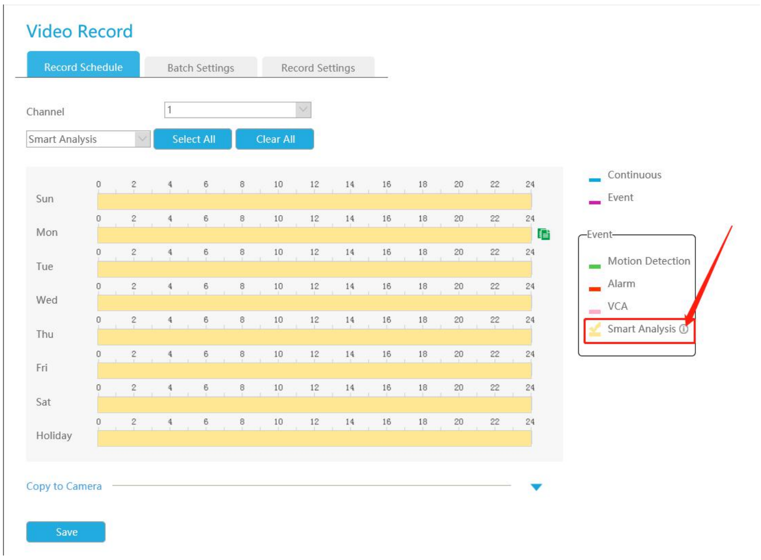
☐ Seclect All

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

Note:

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

Step1: Set Smart Analysis as Record Type in Storage -> Video Record -> Record Schedule interface; The exclamation mark next to Smart Analysis is used to indicate that Smart Analysis includes ANPR.



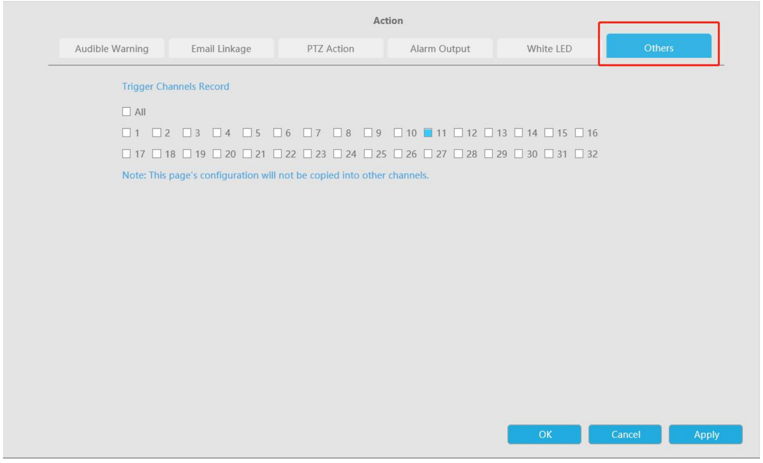
Video Record

Channel: 1

Smart Analysis

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).



Action

Trigger Channels Record

☐ All

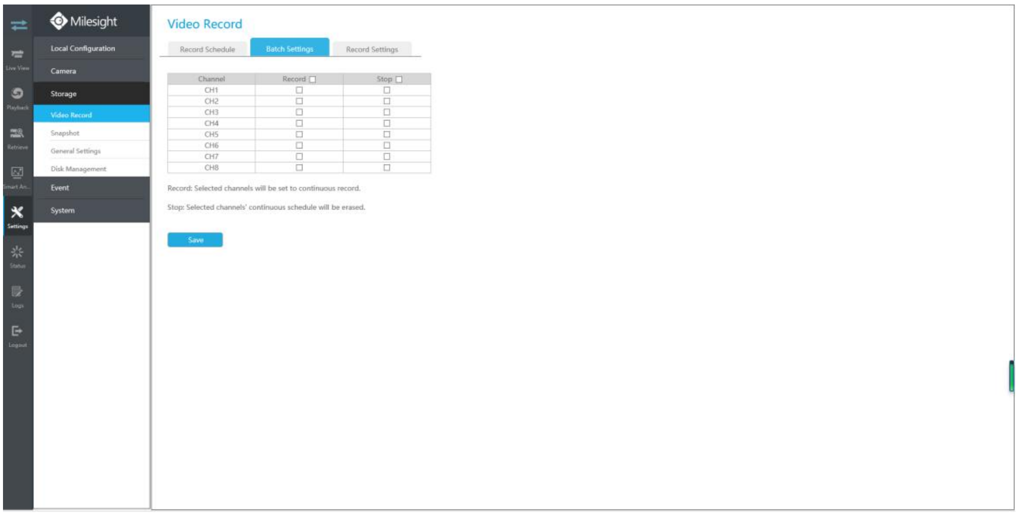
☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☒ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24 ☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32

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

Batch Settings

Record and Stop are available for user to set for selected channels.



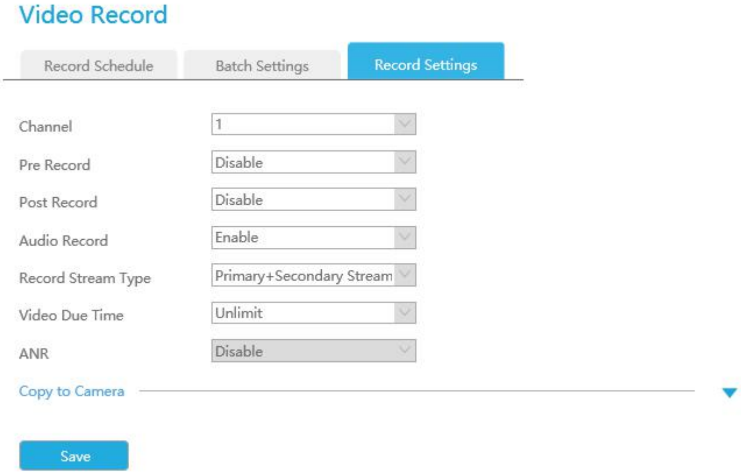
Channel	Record ☐	Stop ☐
CH1	☐	☐
CH2	☐	☐
CH3	☐	☐
CH4	☐	☐
CH5	☐	☐
CH6	☐	☐
CH7	☐	☐
CH8	☐	☐

Record: Selected channels will be set to continuous record.

Stop: Selected channels' continuous schedule will be erased.

Record Settings

Make record settings for selected channels.



Channel: 1
Pre Record: Disable
Post Record: Disable
Audio Record: Enable
Record Stream Type: Primary+Secondary Stream
Video Due Time: Unlimit
ANR: Disable

Channel: Select the channel which will be set.

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

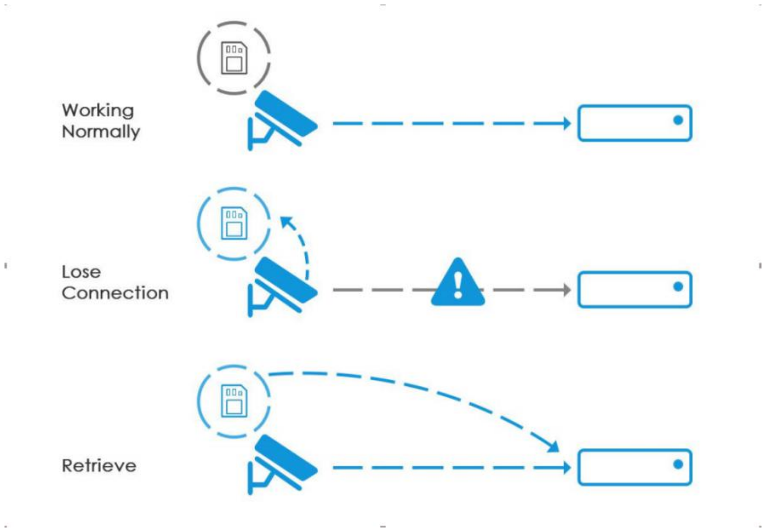
Post Record: Event post-record duration time. It will keep recording after the event is over.

Audio Record: Select to record audio or not.

Record Stream Type: Select Main stream or sub stream for record. Primary+Secondary Stream is available for NVR model ends with T only. If secondary stream is selected for recording while it is disabled, a prompt indicating that the secondary stream is unavailable will pop up.

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

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



Here are some notes for using ANR below:

Note：

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

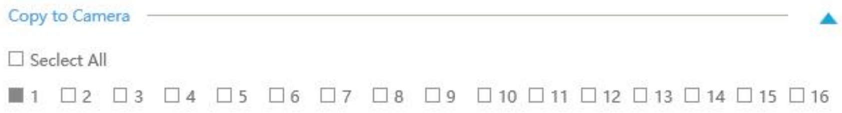
Camera: V4X.7.0.72 or above

NVR: V7X.9.0.6 or above

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

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

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



Copy to Camera

☐ Seclect All

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

4.8.3.2 Snapshot

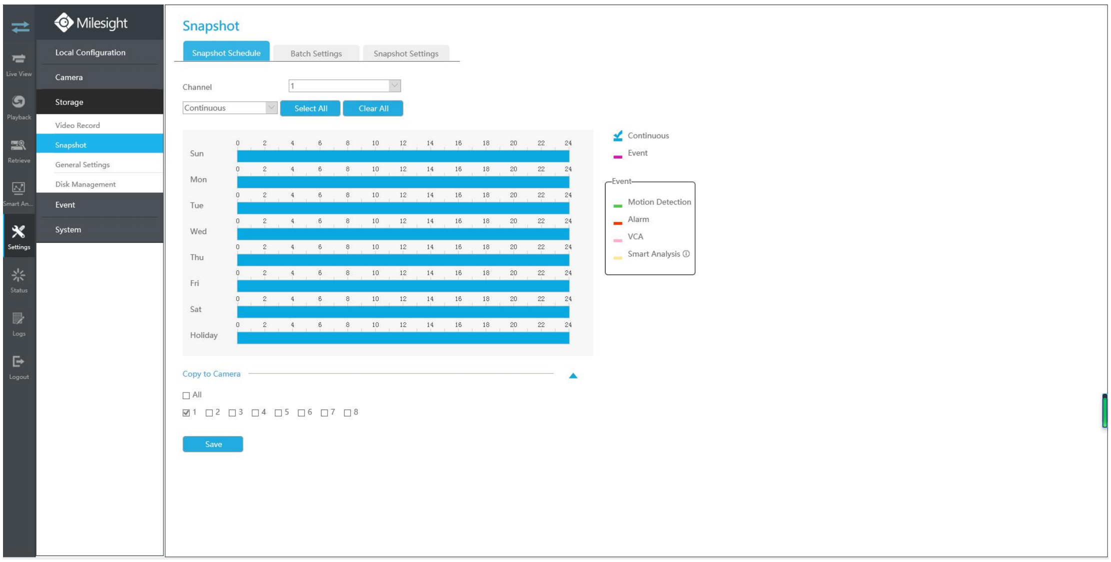
Snapshot Schedule

Step1. Select Record Schedule.

Step2. Select the desired channel.

Step3. Set record schedule.

Select operation type: Continuous, Event or Erase.Event record includes events like Motion Detection, Alarm, VCA and Smart Analysis,which can be searched in Event Playback. Set the time you want to snapshot. It is convenient for you to set or clear all schedule by clicking Select All or Clear All.



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

Click to copy time setting to other days.

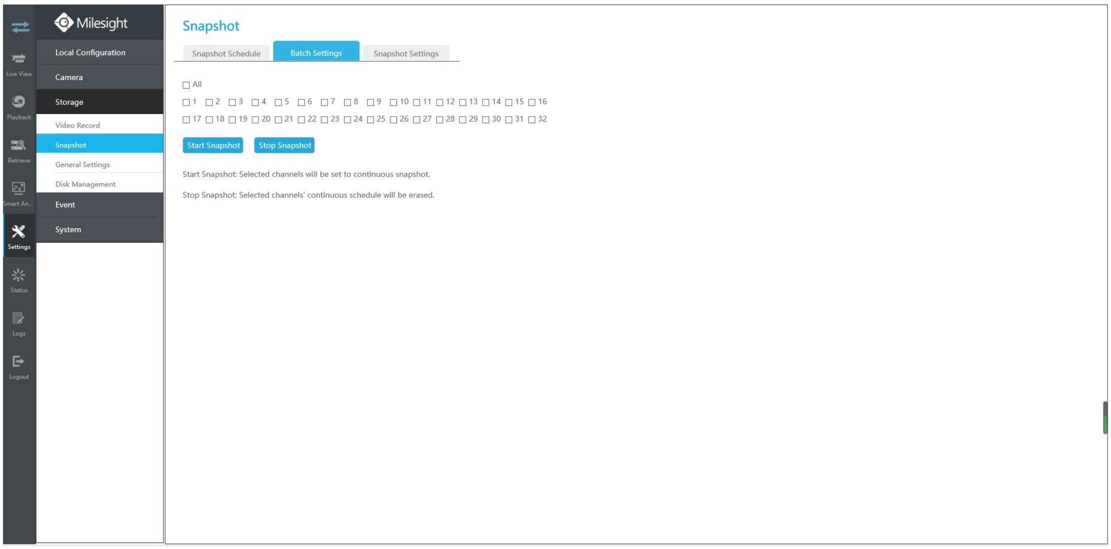
Click [Copy to Camera] to copy the same configuration to other channels.

Batch Settings

Snapshot and Stop are available for user to set for selected channels.

Start Snapshot: Selected channels will be set to continuous snapshot.

Stop Snapshot Selected channels' continuous schedule will be erased.



Start Snapshot: Selected channels will be set to continuous snapshot.

Stop Snapshot: Selected channels' continuous schedule will be erased.

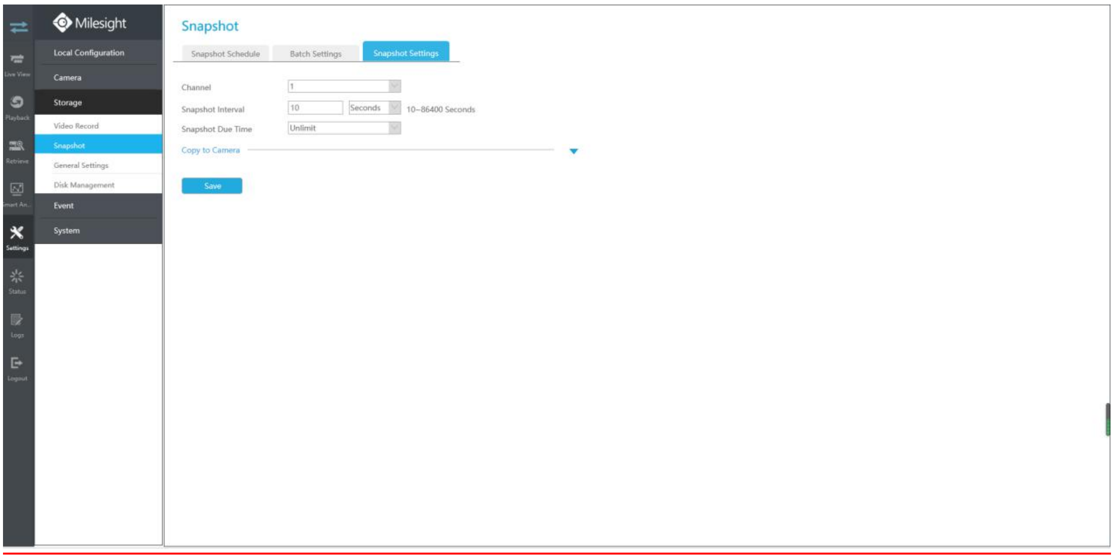
Snapshot Settings

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.

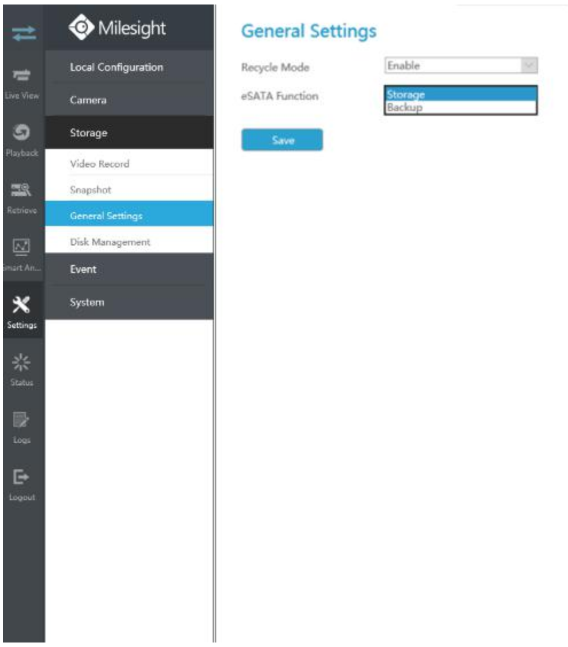


Channel: 1
Snapshot Interval: 10 Seconds 10~86400 Seconds
Snapshot Due Time: Unlimit

Note:

Some models support continuous snapshot function.

4.8.3.3 General Settings



Recycle Mode: Enable
eSATA Function: Storage

Recycle Mode: You can enable or disable Recycle Mode for all storage device.

eSATA Function: Both storage and backup are available.

Note:

eSATA Function is only available for NVR 8000 Series.

4.8.3.4 Disk Management

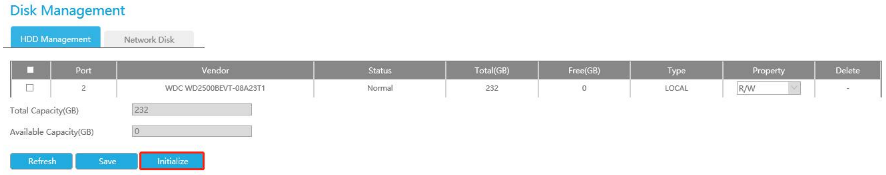
You can check Disk status and add Network Disk here.

HDD Mangement

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

Note:

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



Disk Management

■	Port	Vendor	Status	Total(GB)	Free(GB)	Type	Property	Delete
☐	2	WDC WD2500BEVT-08A23T1	Normal	232	0	LOCAL	R/W	-

Total Capacity(GB) 232

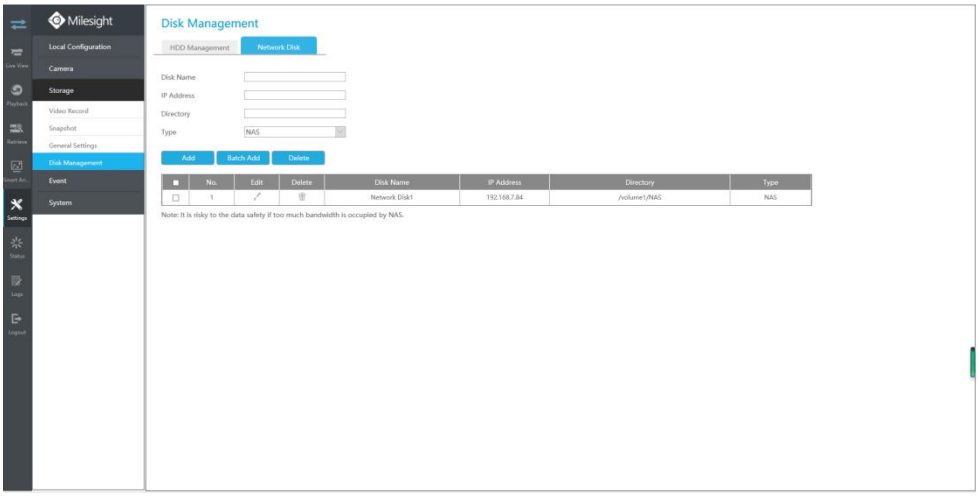
Available Capacity(GB) 0

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.



Disk Management

Disk Name

IP Address

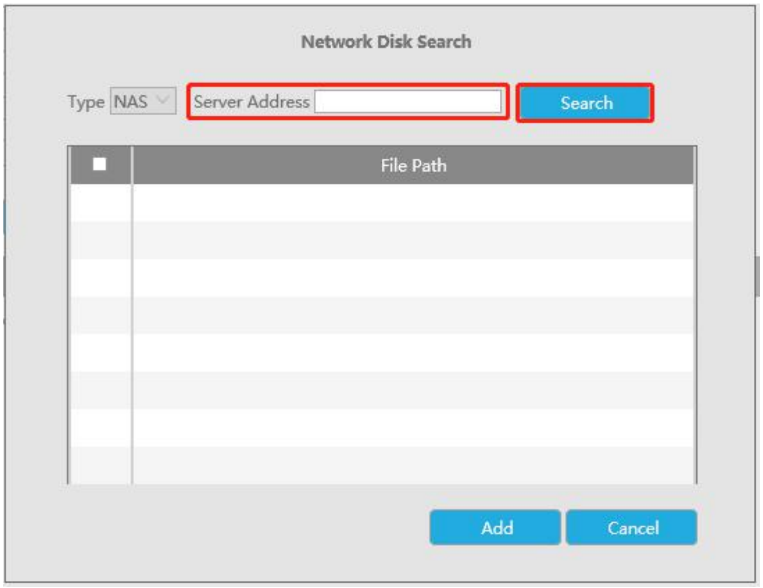
Directory

Type NAS

■	No.	Edit	Delete	Disk Name	IP Address	Directory	Type
☐	1			Network Disk1	192.168.7.84	/volume1/NAS	NAS

Note: It is risky to the data safety if too much bandwidth is occupied by NAS.

You can add it manually or search local NAS by clicking **Batch Add**.



Network Disk Search

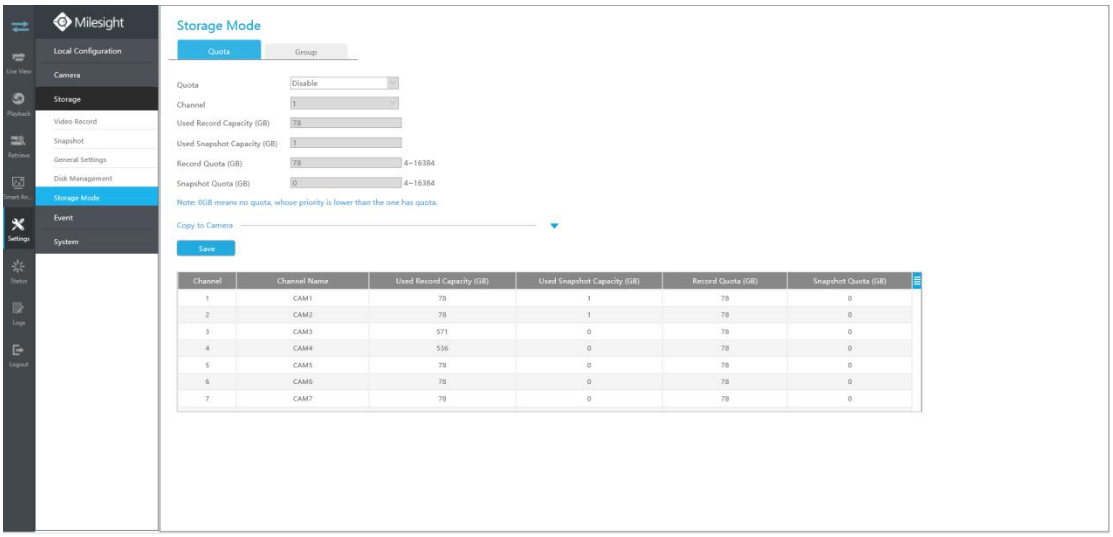
Type NAS Server Address

■	File Path

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.



Quota: Disable

Channel: 1

Used Record Capacity (GB): 78

Used Snapshot Capacity (GB): 1

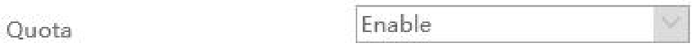
Record Quota (GB): 78 4~16384

Snapshot Quota (GB): 0 4~16384

Note: 0GB means no quota, whose priority is lower than the one has quota.

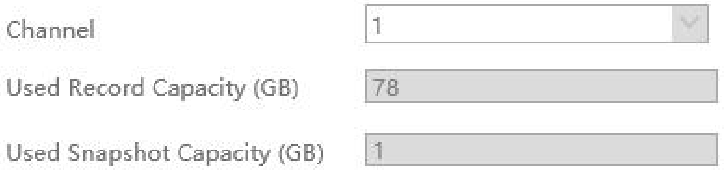
Channel	Channel Name	Used Record Capacity (GB)	Used Snapshot Capacity (GB)	Record Quota (GB)	Snapshot Quota (GB)
1	CAM1	78	1	78	0
2	CAM2	78	1	78	0
3	CAM3	571	0	78	0
4	CAM4	536	0	78	0
5	CAM5	78	0	78	0
6	CAM6	78	0	78	0
7	CAM7	78	0	78	0

Step 1. Enable Quota.



Quota: Enable

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

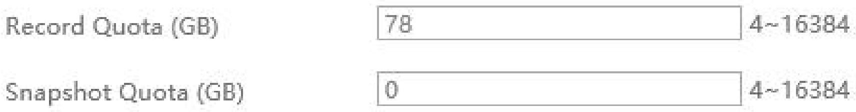


Channel: 1

Used Record Capacity (GB): 78

Used Snapshot Capacity (GB): 1

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

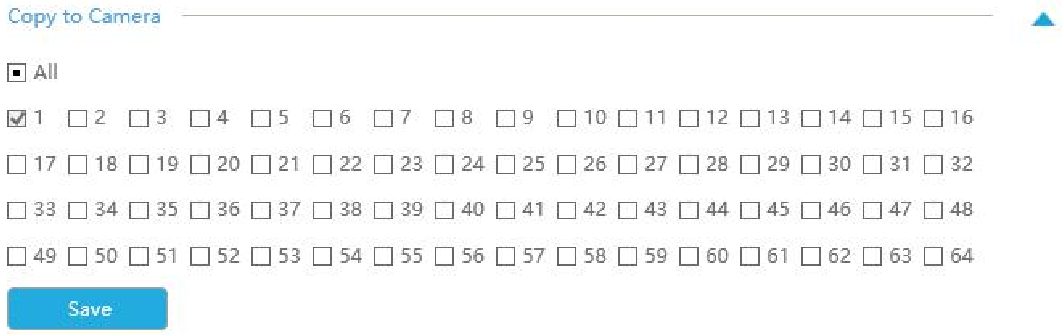


Record Quota (GB): 78 4~16384

Snapshot Quota (GB): 0 4~16384

Step 4. Click Save to take effect 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 Save to take effect the configuration.



Copy to Camera

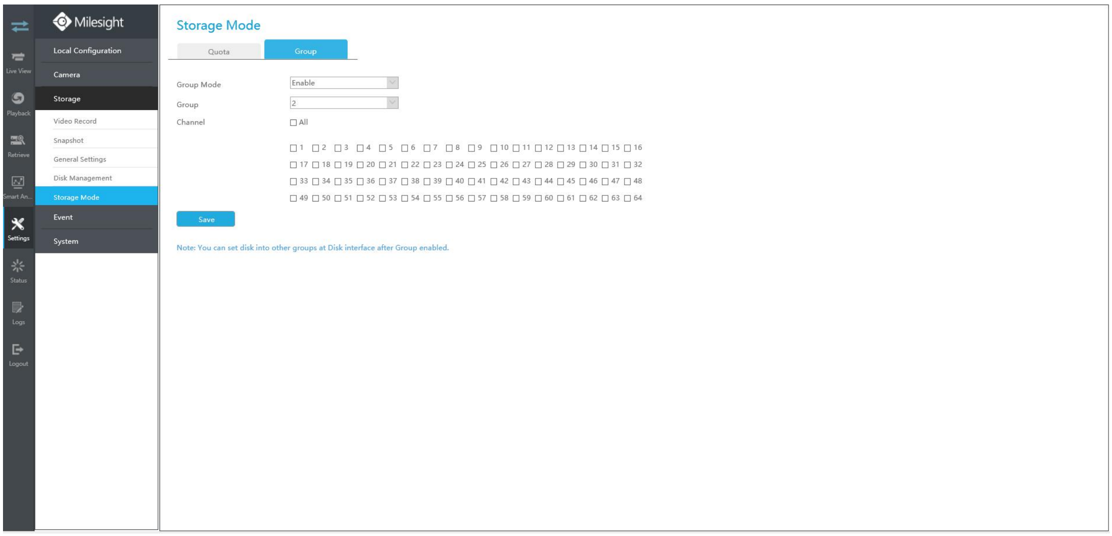
▣ All

☑ 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

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.



Group Mode: Enable

Group: 2

Channel: ☐ 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: You can set disk into other groups at Disk interface after Group enabled.

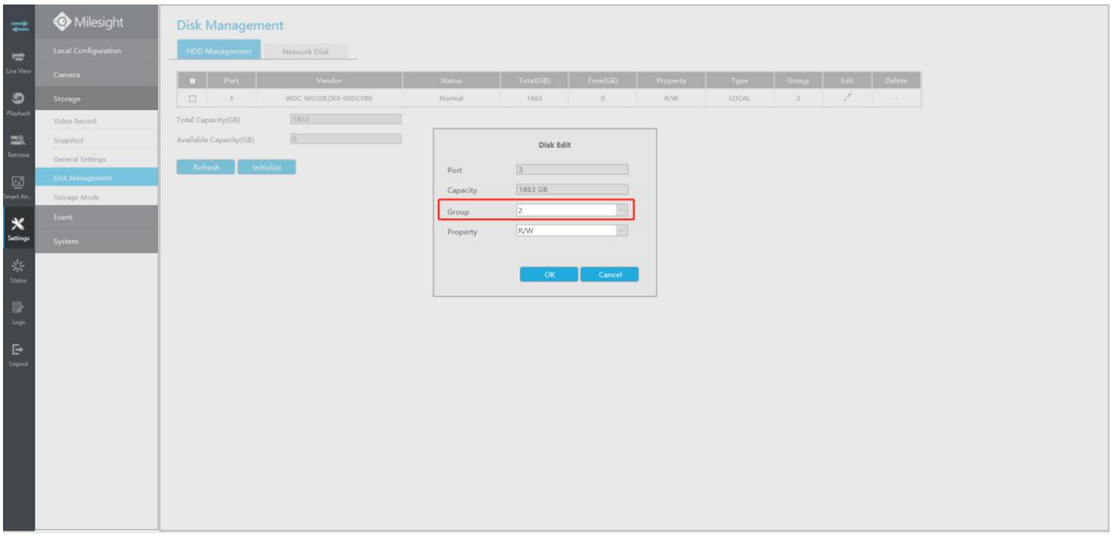
Step 1. Enable Group.

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.



Disk Management

HDD Management | Network Disk

■	Port	Vendor	Status	Total(GB)	Free(GB)	Property	Type	Group	Edit	Delete
☐	3	WDC WD20EZRX-00DC0B0	Normal	1863	0	R/W	LOCAL	2		-

Total Capacity(GB): 1863
Available Capacity(GB): 0

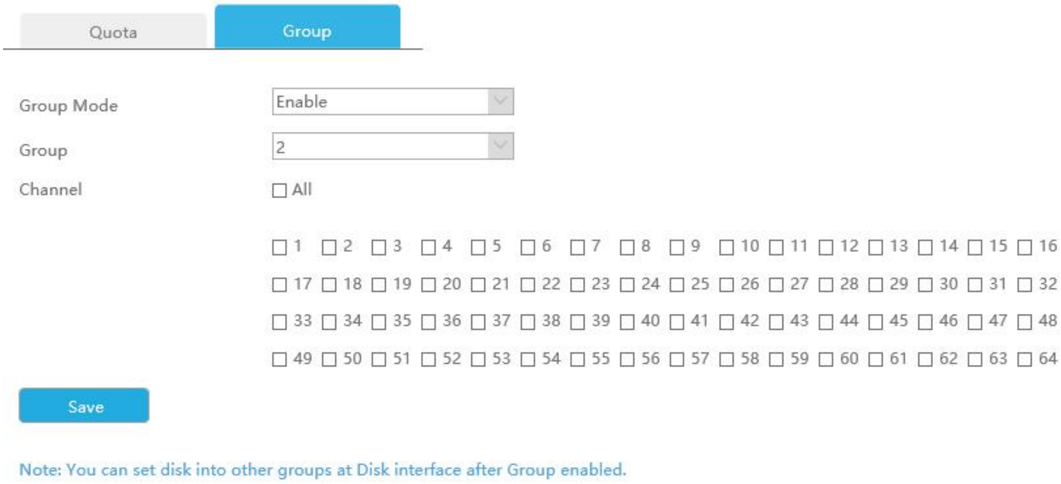
Refresh | Initialize

Disk Edit

Port: 3
Capacity: 1863 GB
Group: 2
Property: R/W

OK | Cancel

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



Group Mode: Enable

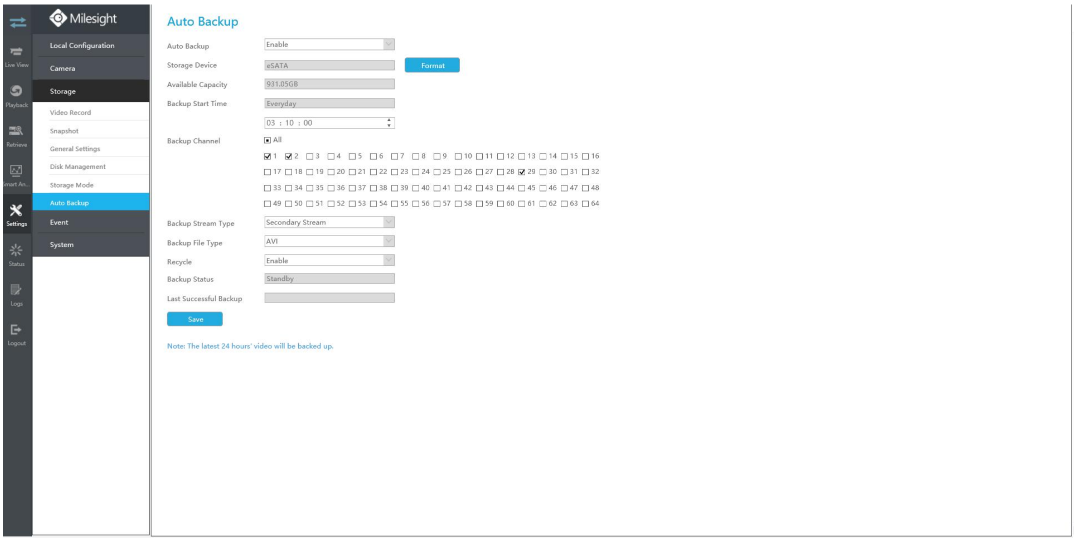
Group: 2

Channel: ☐ 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: You can set disk into other groups at Disk interface after Group enabled.

4.8.3.6 Auto Backup



Auto Backup

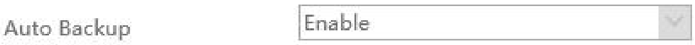
Auto Backup: Enable
Storage Device: eSATA
Available Capacity: 931.05GB
Backup Start Time: Everyday
03 : 10 : 00
Backup Channel: ■ All

☑ 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

Backup Stream Type: Secondary Stream
Backup File Type: AVI
Recycle: Enable
Backup Status: Standby
Last Successful Backup:

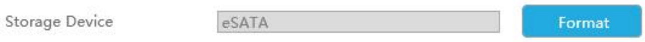
Note: The latest 24 hours' video will be backed up.

Step 1. Enable Auto Backup.



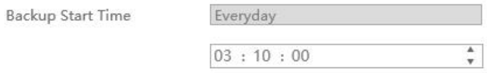
Auto Backup Enable

Step 2. Click Format to format the eSATA disk.



Storage Device eSATA

Step 3. Set Backup Start Time.



Backup Start Time Everyday 03 : 10 : 00

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 Save 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.

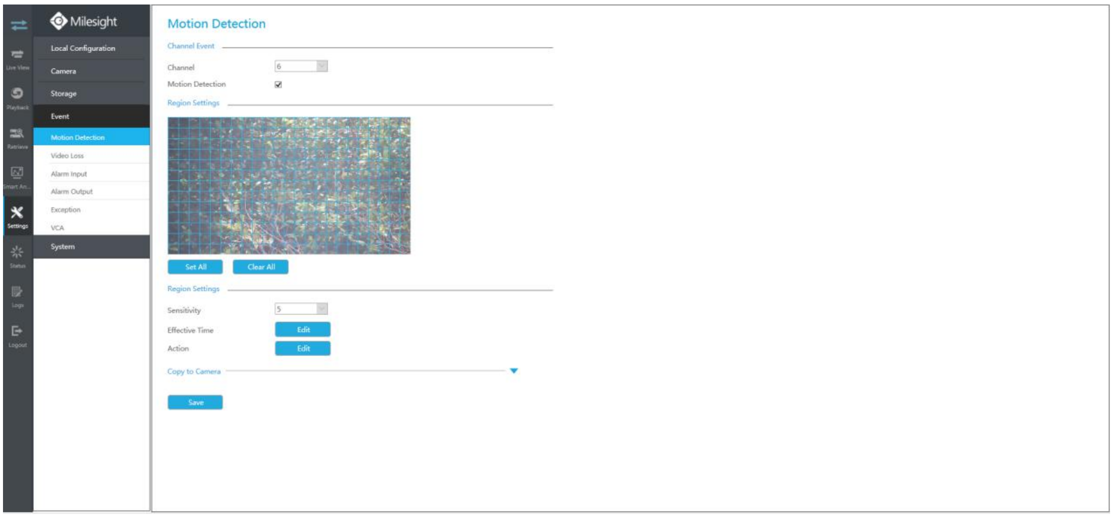
- No Storage Device
- Unsupported Storage Device Format
- Standby
- Working (xx%)

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



Channel 6

Motion Detection ☑

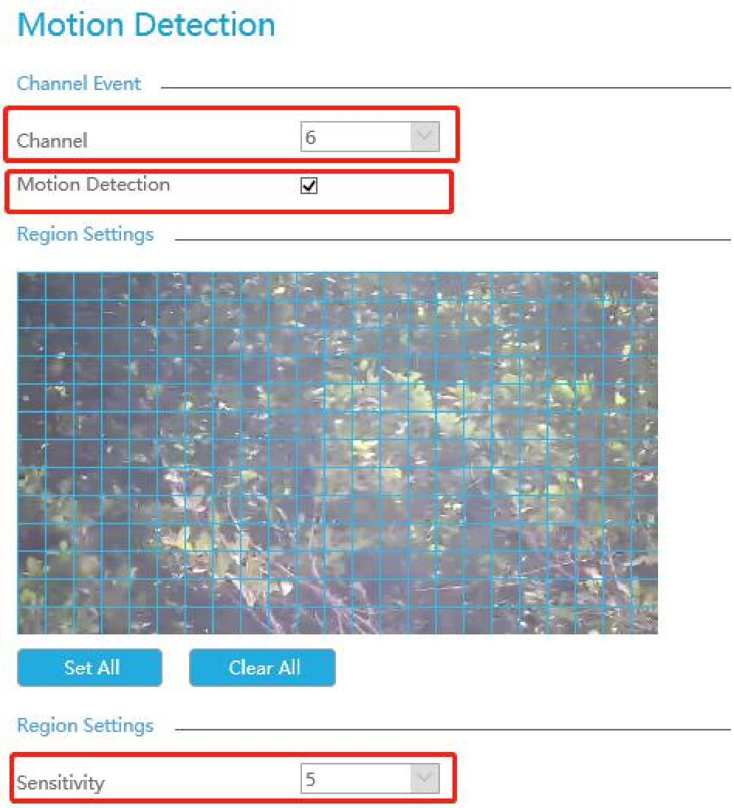
Sensitivity 5

Effective Time Edit

Action Edit

Step 1. Enable Motion Detection.

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



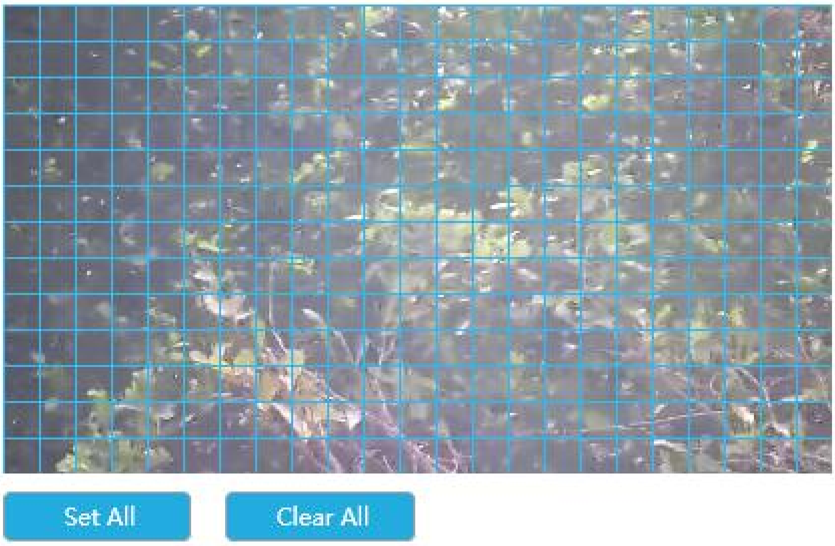
Channel 6

Motion Detection ☑

Sensitivity 5

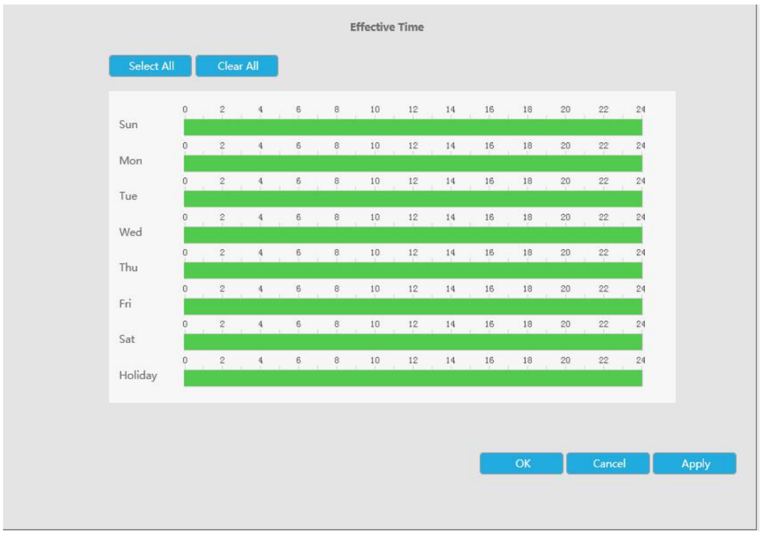
Step2: Set the area for triggering motion detection.

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



Step 3. Set Effective Time of motion 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.



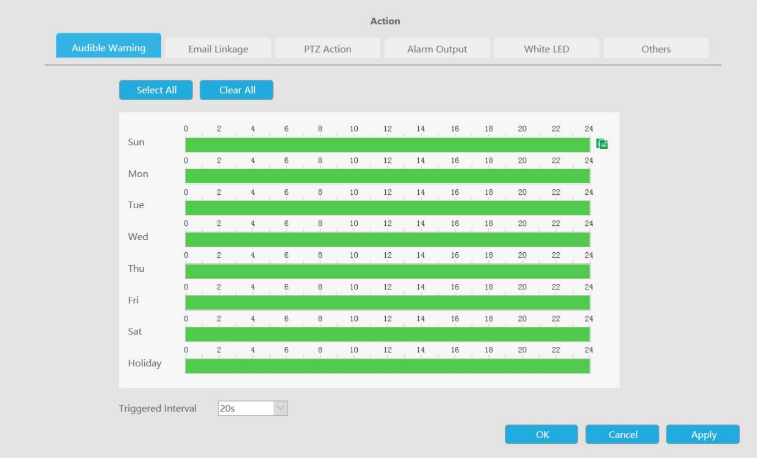
Step 4. Set Action for motion detection alarm by clicking Edit **.**

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

Moreover, you can click time bar to edit the time accurately.

Click 📋 to copy time setting to other day.

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



Triggered Interval 20s

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

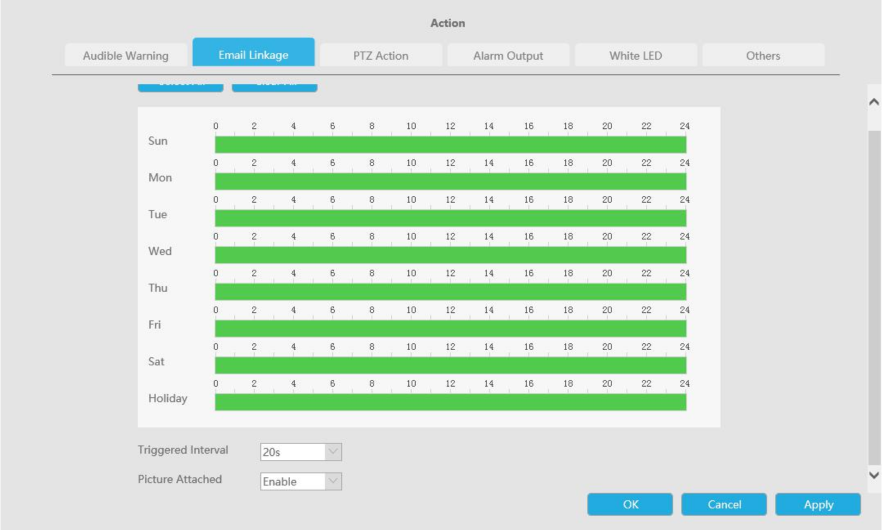
Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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.



Triggered Interval 20s

Picture Attached Enable

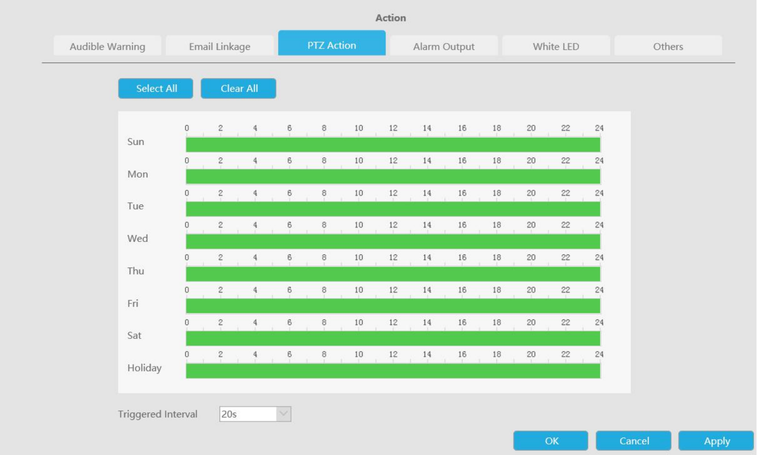
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

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.

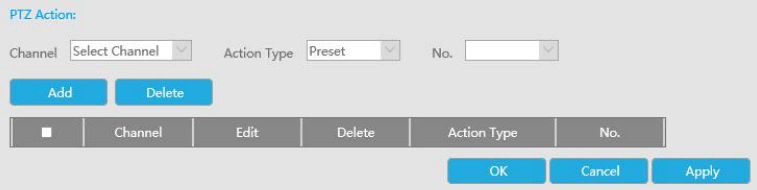
Click 📋 to copy time setting to other day.

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



Triggered Interval 20s

And you can add PTZ Action.



Channel Select Channel Action Type Preset No.

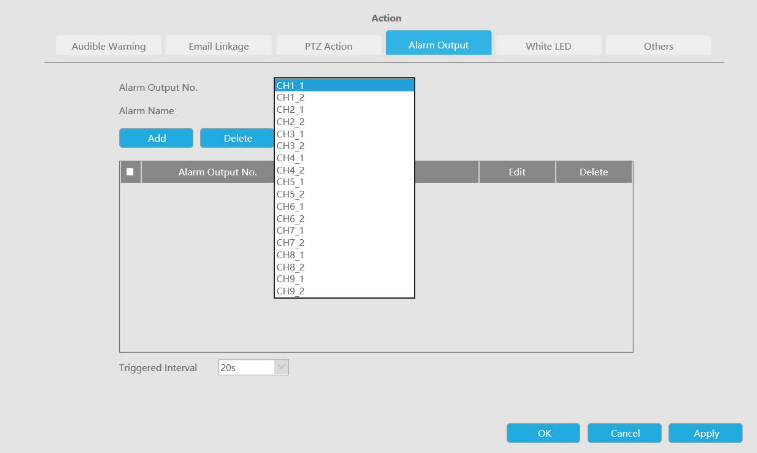
Channel: Select the channel which supports this function.

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.



Triggered Interval 20s

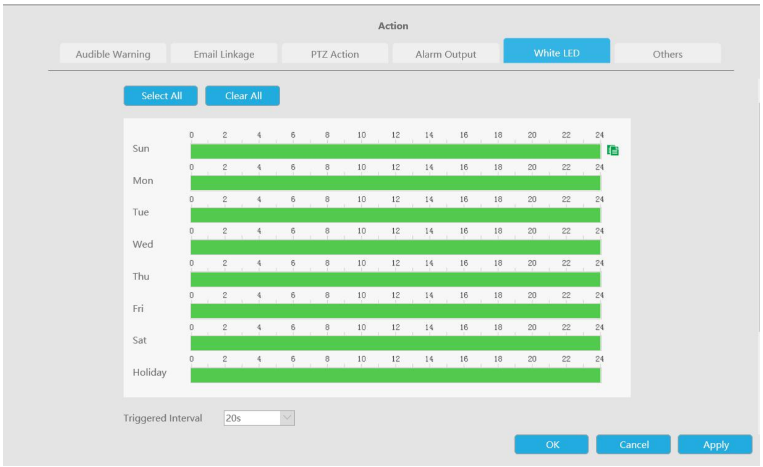
White LED: Trigger White LED flashing when alarm is triggered.

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

Moreover, you can click time bar to edit the time accurately.

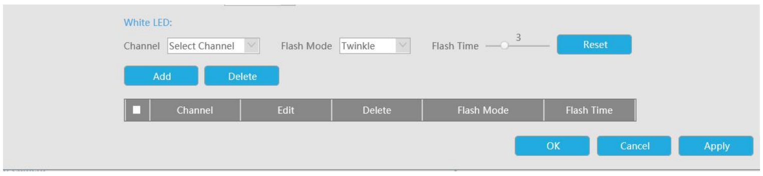
Click 📋 to copy time setting to other day.

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



Triggered Interval 20s

And you can add White LED.



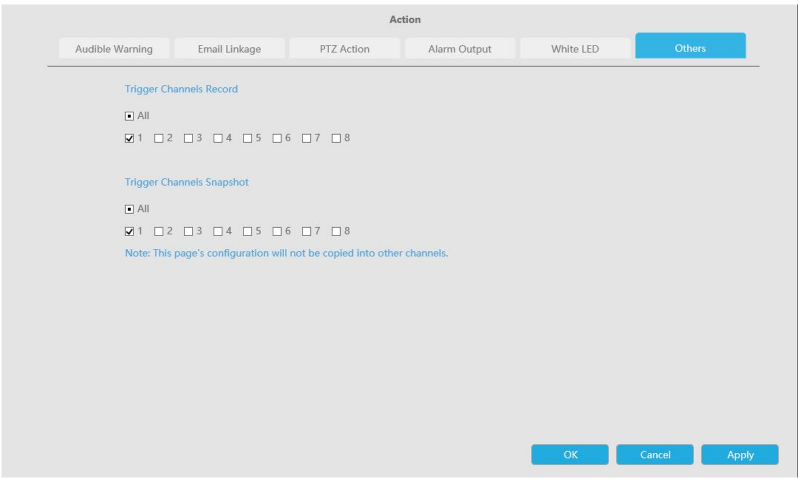
Channel: Select Channel
Flash Mode: Twinkle
Flash Time: 3

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.



Trigger Channels Record
☐ All
☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

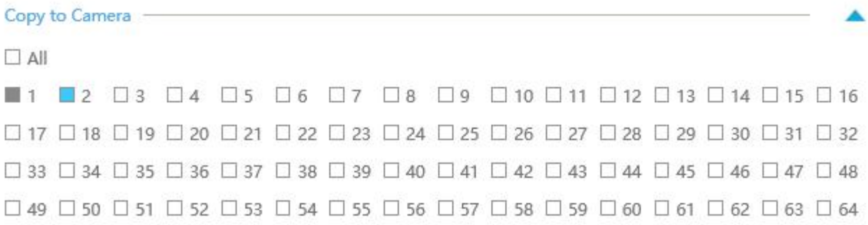
Trigger Channels Snapshot
☐ All
☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

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

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.



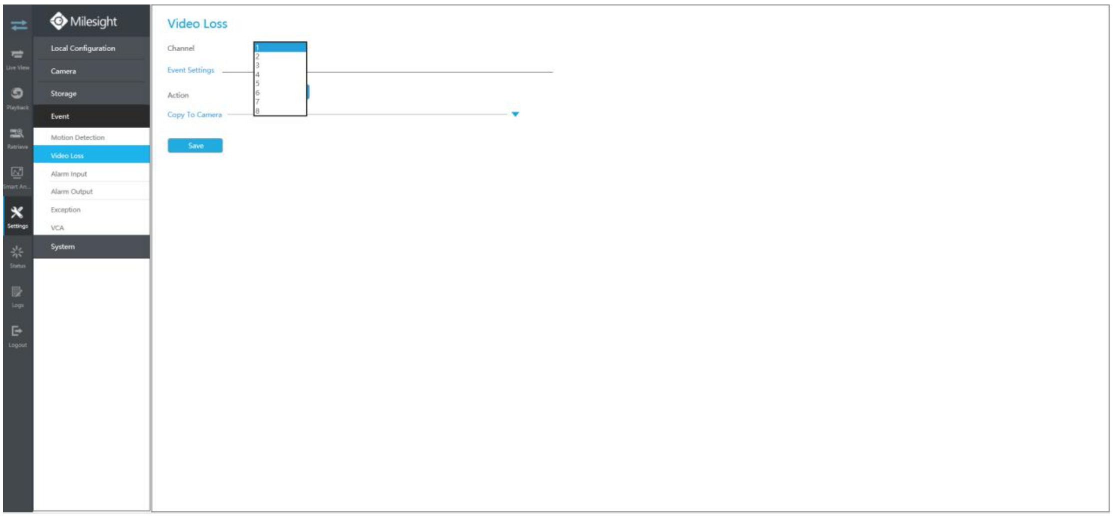
Copy to Camera

☐ 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

4.8.4.2 Video Loss

Step1. Select a channel



Step2. Set Action for video loss.

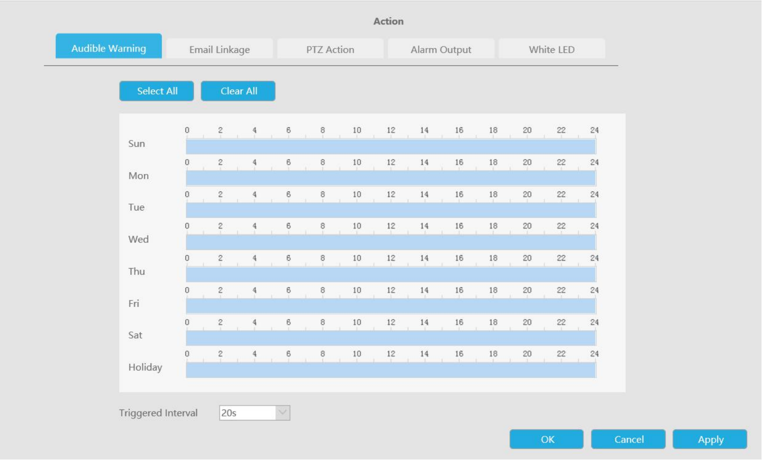
Audible Warning: NVR will trigger an audible beep when alarm is triggered.

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

Moreover, you can click time bar to edit the time accurately.

Click to copy time setting to other day.

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



Triggered Interval 20s

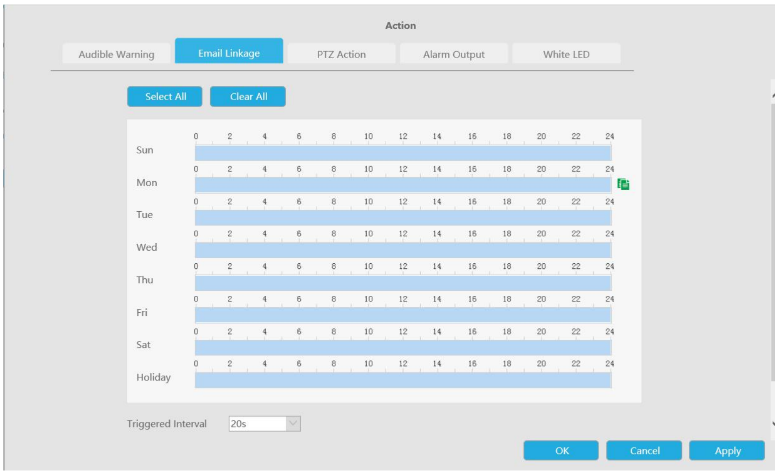
Email Linkage: NVR will send an email to the address you set before.

Drag a line on the time table for time setting. It will be more convenient by clicking **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.



Triggered Interval 20s

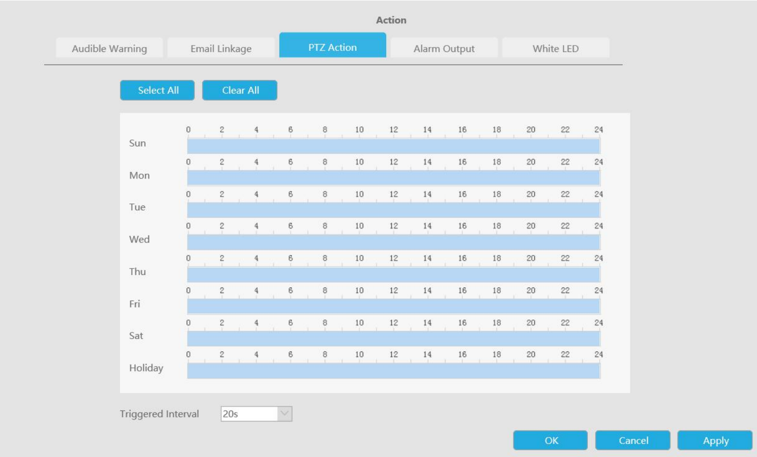
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

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.

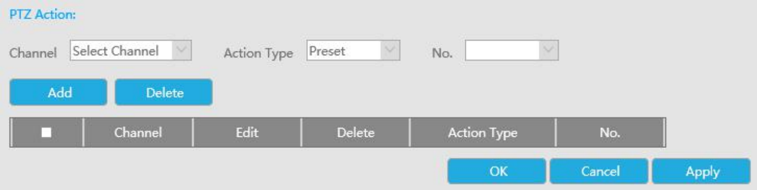
Moreover, you can click time bar to edit the time accurately.

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.



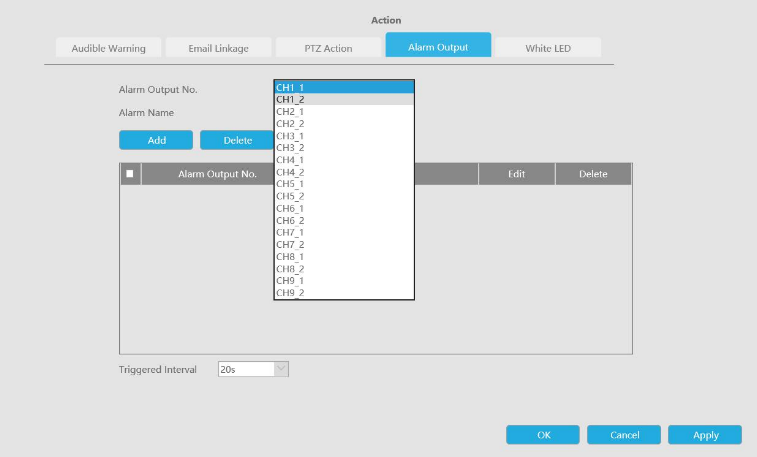
Channel: Select the channel which supports this function.

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.



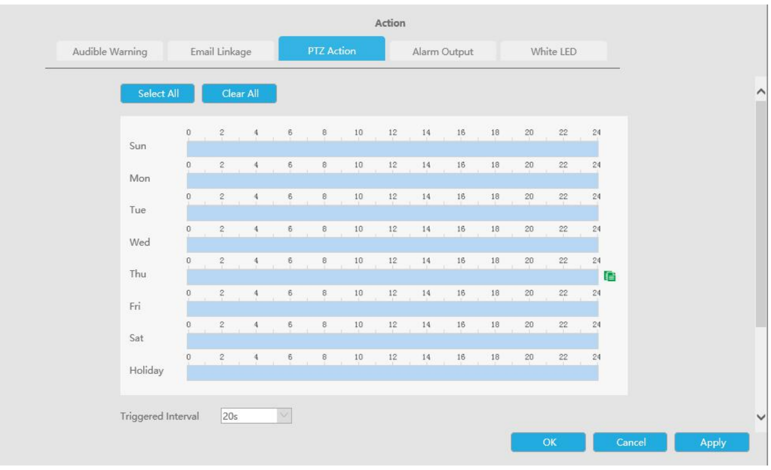
White LED: Trigger White LED flashing when alarm is triggered.

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.

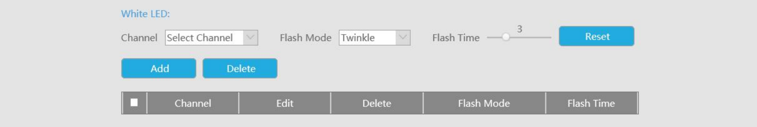
Click 📋 to copy time setting to other day.

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



Triggered Interval: 20s

And you can add White LED.



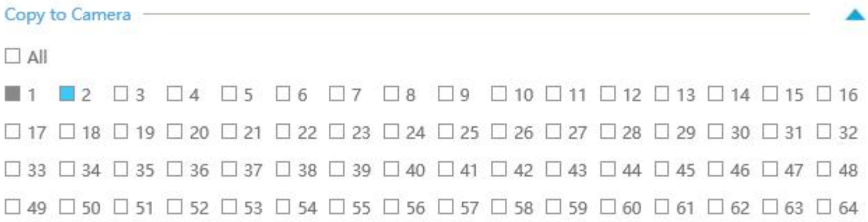
Channel: Select Channel
Flash Mode: Twinkle
Flash Time: 3

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.



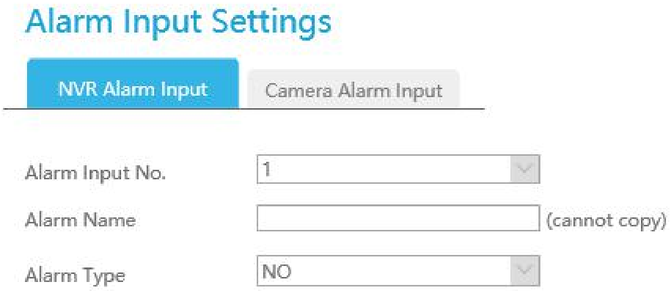
☐ All
☒ 1 ☑ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16
☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24 ☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32
☐ 33 ☐ 34 ☐ 35 ☐ 36 ☐ 37 ☐ 38 ☐ 39 ☐ 40 ☐ 41 ☐ 42 ☐ 43 ☐ 44 ☐ 45 ☐ 46 ☐ 47 ☐ 48
☐ 49 ☐ 50 ☐ 51 ☐ 52 ☐ 53 ☐ 54 ☐ 55 ☐ 56 ☐ 57 ☐ 58 ☐ 59 ☐ 60 ☐ 61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

4.8.4.3 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 No. 1

Alarm Name (cannot copy)

Alarm Type NO

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

Alarm Name: Set a name for the alarm.

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

Step 2. Set effective time for alarm input.

Step3. Set action for alarm input.

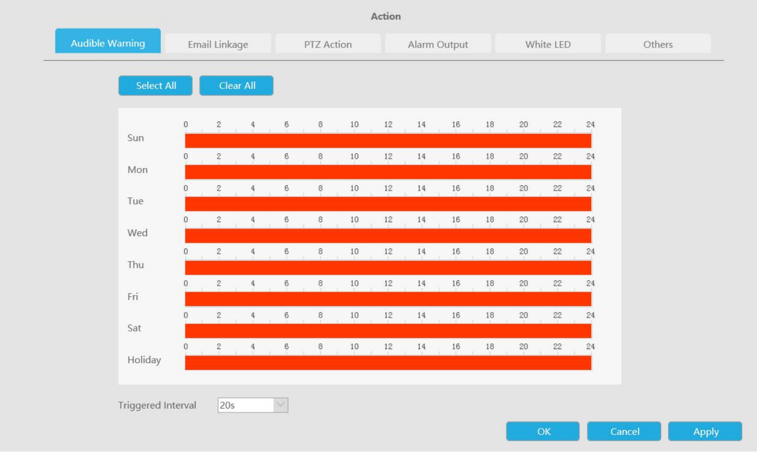
Audible Warning: NVR will trigger an audible beep when alarm is triggered.

Drag a line on the time table for time setting. It will be more convenient by clicking Select All or 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.



Triggered Interval 20s

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

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

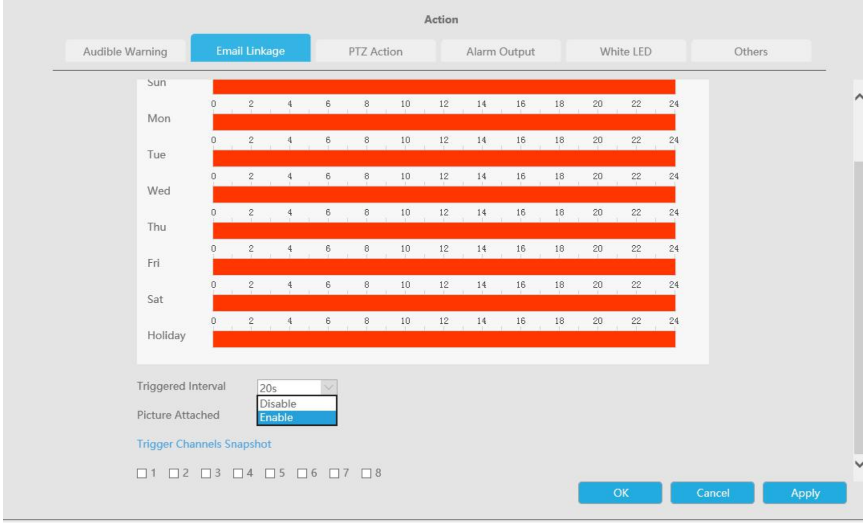
Moreover, you can click time bar to edit the time accurately.

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.



Triggered Interval: 20s

Picture Attached: Enable

Trigger Channels Snapshot

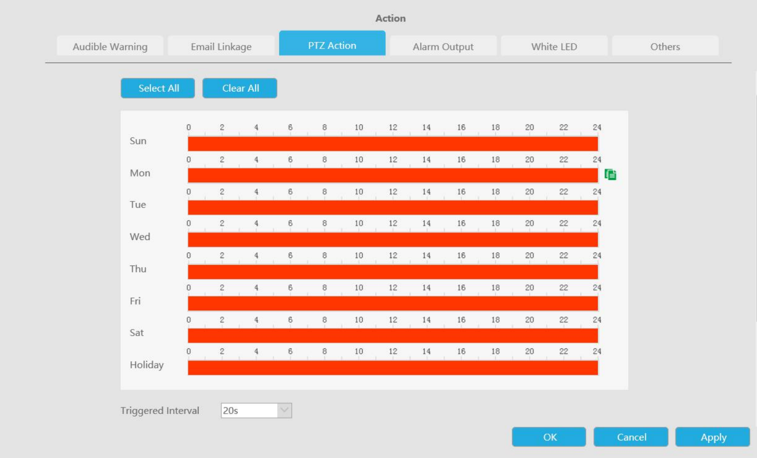
☐1 ☐2 ☐3 ☐4 ☐5 ☐6 ☐7 ☐8

PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.** Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

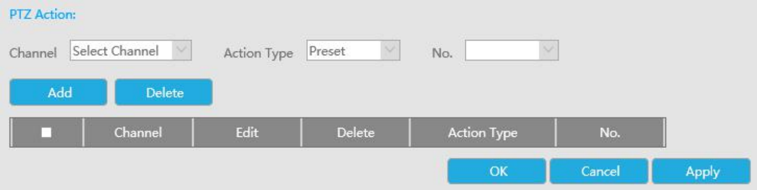
Click 📋 to copy time setting to other day.

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



Triggered Interval: 20s

And you can add PTZ Action.



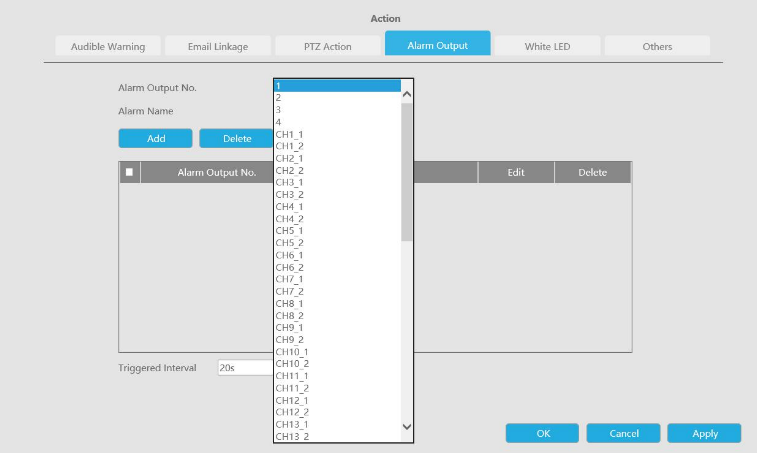
Channel: Select the channel which supports this function.

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.



Triggered Interval 20s

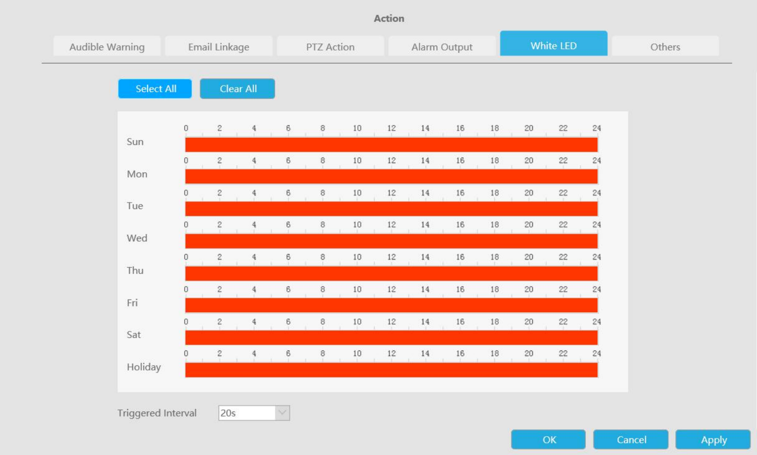
White LED: Trigger White LED flashing when alarm is triggered.

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

Moreover, you can click time bar to edit the time accurately.

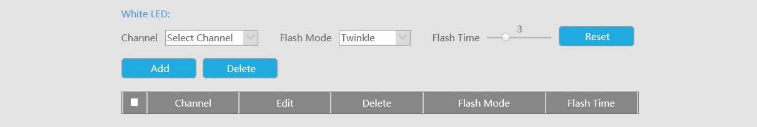
Click 📋 to copy time setting to other day.

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



Triggered Interval 20s

And you can add White LED.



Channel Select Channel
Flash Mode Twinkle
Flash Time 3

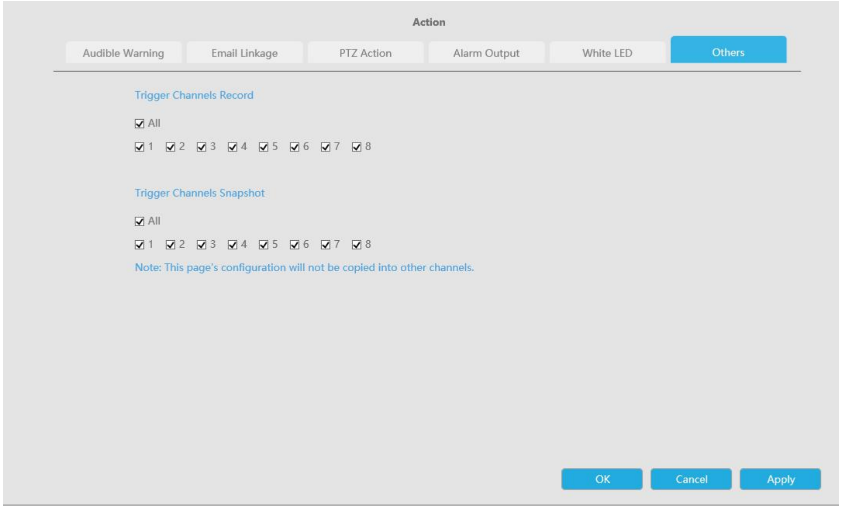
Channel: Select the channel which supports this function.

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.



Trigger Channels Record

☑ All

☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

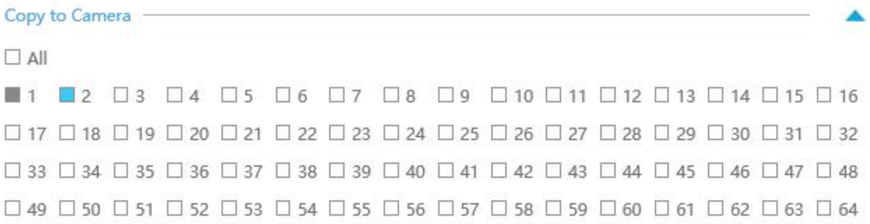
Trigger Channels Snapshot

☑ All

☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

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

Step 4. 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

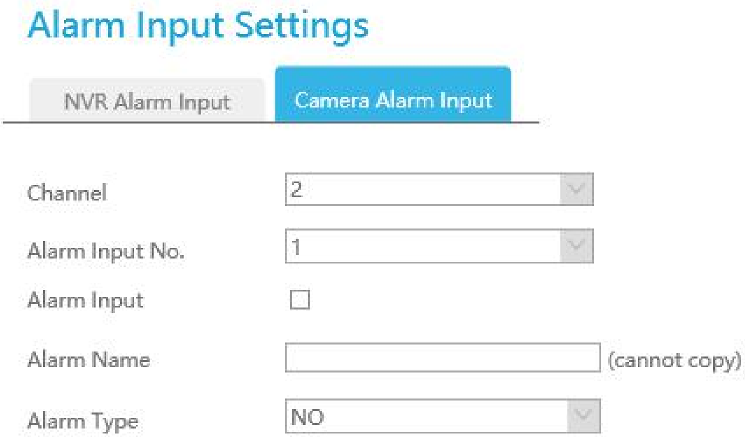
☐ 33 ☐ 34 ☐ 35 ☐ 36 ☐ 37 ☐ 38 ☐ 39 ☐ 40 ☐ 41 ☐ 42 ☐ 43 ☐ 44 ☐ 45 ☐ 46 ☐ 47 ☐ 48

☐ 49 ☐ 50 ☐ 51 ☐ 52 ☐ 53 ☐ 54 ☐ 55 ☐ 56 ☐ 57 ☐ 58 ☐ 59 ☐ 60 ☐ 61 ☐ 62 ☐ 63 ☐ 64

4.8.4.3.2 Camera Alarm Input

Milesight NVRs support the upgrade of Milesight Cameras.

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



Channel 2

Alarm Input No. 1

Alarm Input ☐

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.

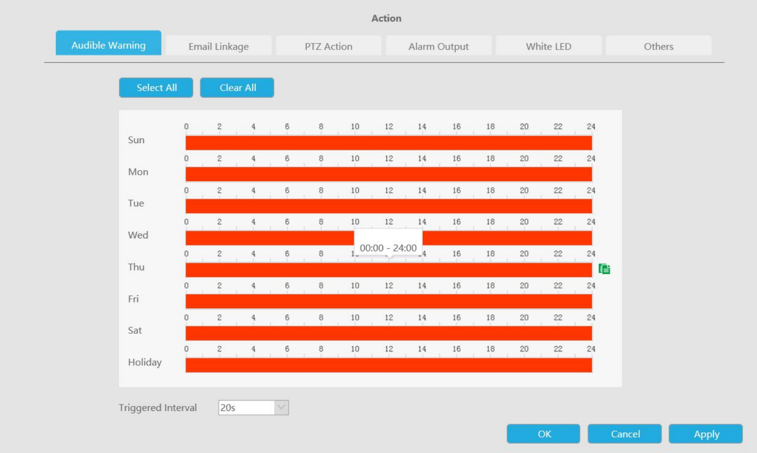
Audible Warning: NVR will trigger an audible beep when motion is detected.

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

Moreover, you can click time bar to edit the time accurately.

Click 📋 to copy time setting to other day.

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



Triggered Interval 20s

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

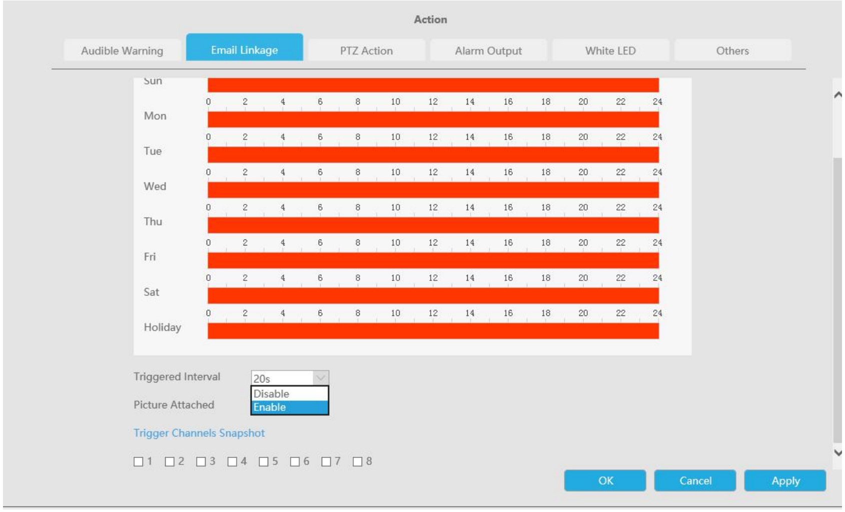
Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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.



Triggered Interval: 20s

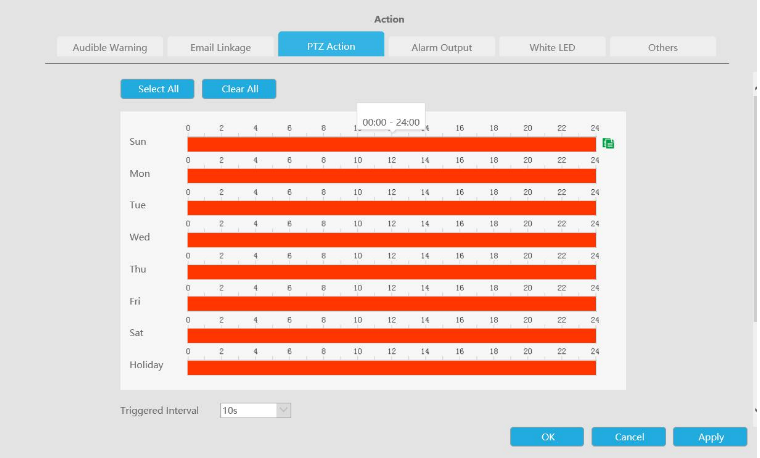
Picture Attached: Disable / Enable

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.

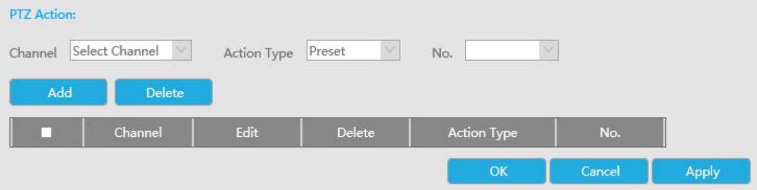
Click to copy time setting to other day.

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



Triggered Interval: 10s

And you can add PTZ Action.



Channel: Select Channel

Action Type: Preset

No.:

■	Channel	Edit	Delete	Action Type	No.

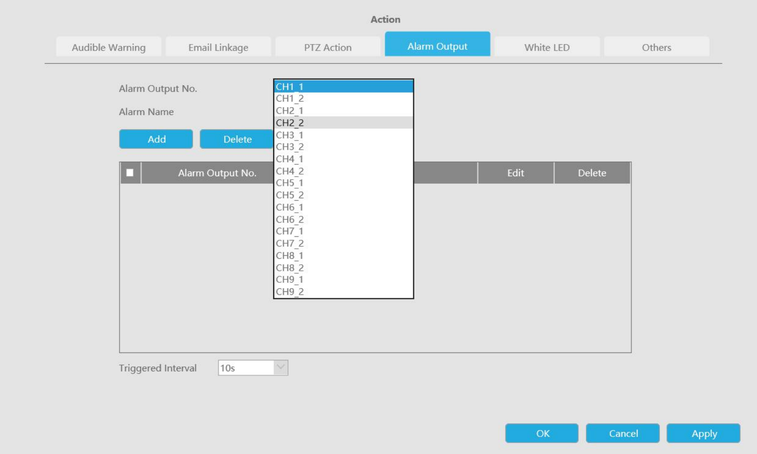
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

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

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



Triggered Interval 10s

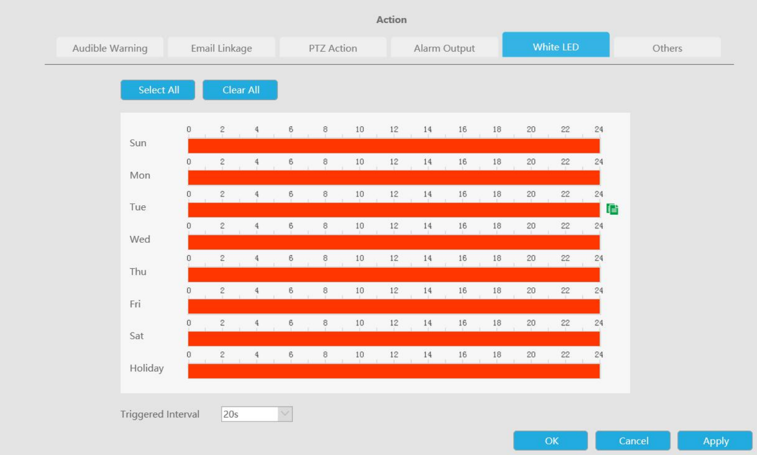
White LED: Trigger White LED flashing when alarm is triggered.

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.

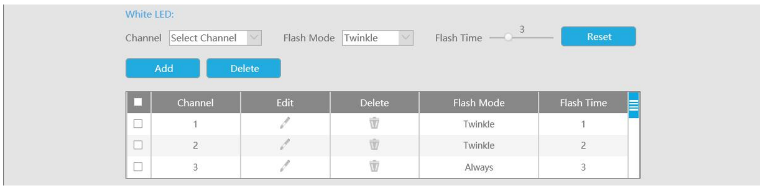
Click 📋 to copy time setting to other day.

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



Triggered Interval 20s

And you can add White LED.



Channel Select Channel Flash Mode Twinkle Flash Time 3

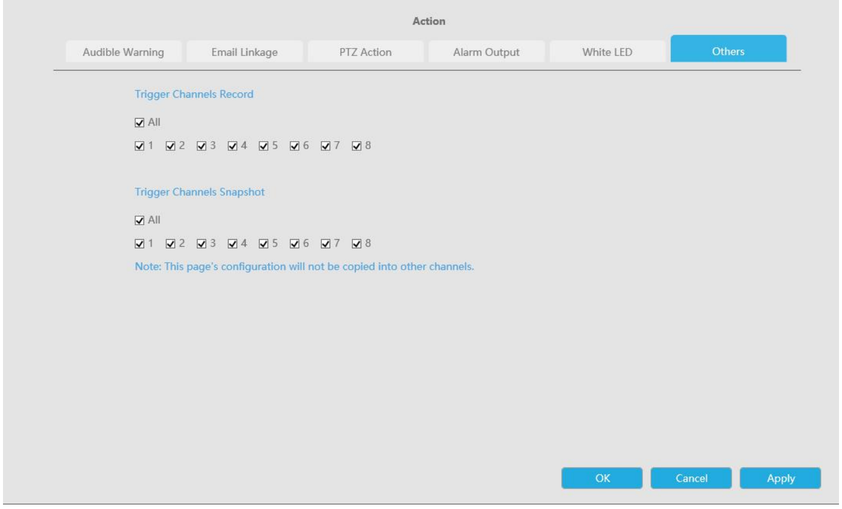
☐	Channel	Edit	Delete	Flash Mode	Flash Time
☐	1			Twinkle	1
☐	2			Twinkle	2
☐	3			Always	3

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

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

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



Trigger Channels Record

☑ All

☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

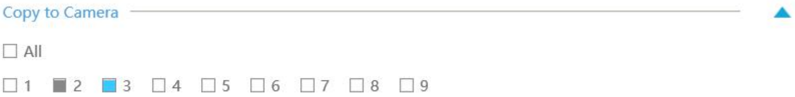
Trigger Channels Snapshot

☑ All

☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

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

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



Copy to Camera

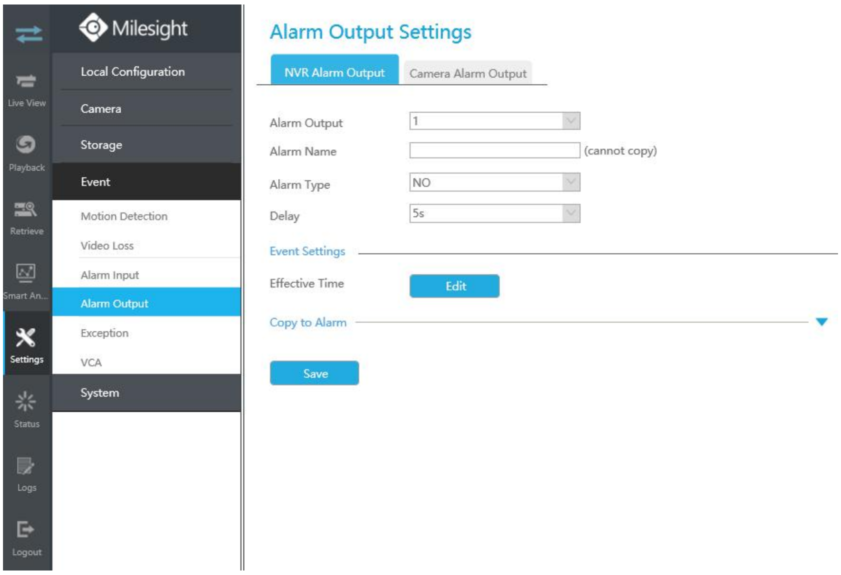
☐ All

☐ 1 ■ 2 ☑ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9

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.



Alarm Output: 1

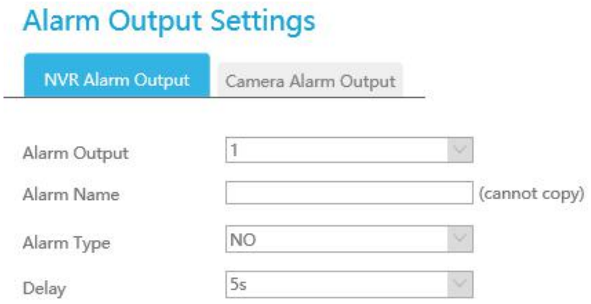
Alarm Name: (cannot copy)

Alarm Type: NO

Delay: 5s

Effective Time

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



Alarm Output: 1

Alarm Name: (cannot copy)

Alarm Type: NO

Delay: 5s

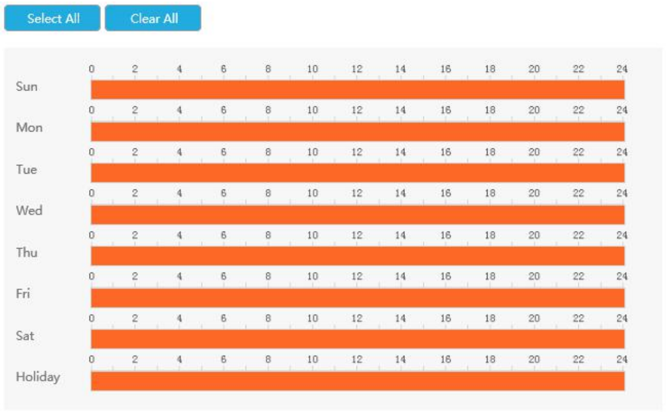
Alarm Output: The channel which will output the alarm signal.

Alarm Type: Select alarm type: NO or NC.

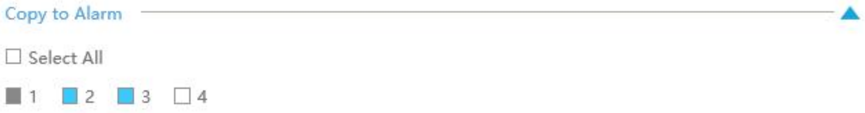
Delay: Set the output time for alarm. If the output alarm lasts too long, you can select the Manually Clear to stop it.

Alarm Name: Set a name for the alarm.

Step 2: Set effective time.

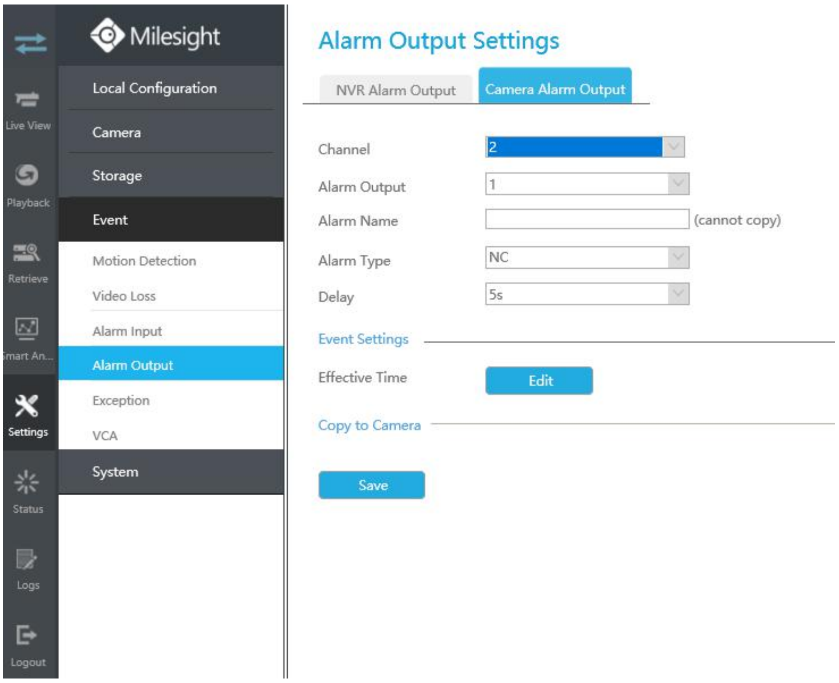


Step3. Click [Copy to Alarm] and 🟦 to copy the same configuration to other alarm channels.



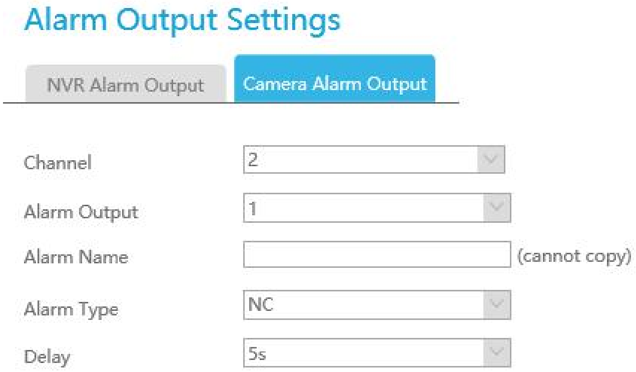
4.8.4.4.2 Camera Alarm Output

Milesight NVRs support the upgrade of Milesight Cameras.



Channel: 2
Alarm Output: 1
Alarm Name: (cannot copy)
Alarm Type: NC
Delay: 5s
Effective Time: Edit

Step 1. Set Alarm Output Channel, Alarm Type, Delay and Alarm Name.



Channel: 2
Alarm Output: 1
Alarm Name: (cannot copy)
Alarm Type: NC
Delay: 5s

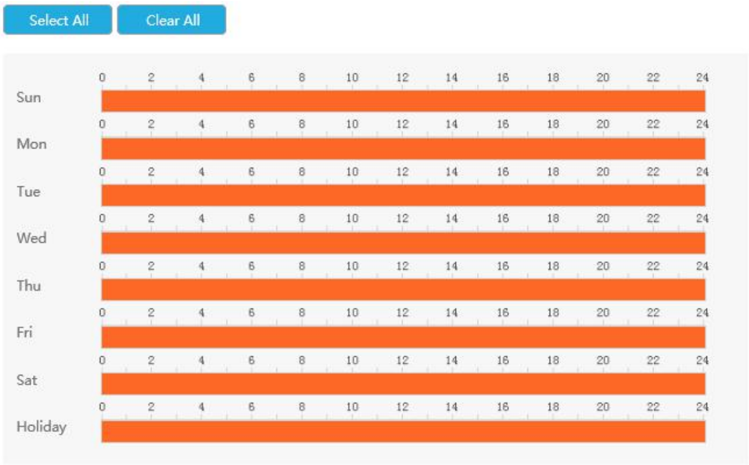
Alarm Output: The alarm output number of the corresponding channel which has input signal.

Alarm Type: Select Alarm Type: NO or NC.

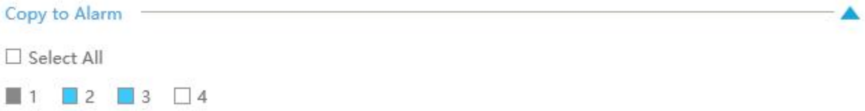
Delay: Set the output time for alarm. If the output alarm lasts too long, you can select the Manually Clear to stop it.

Alarm Name: Set a name for the alarm.

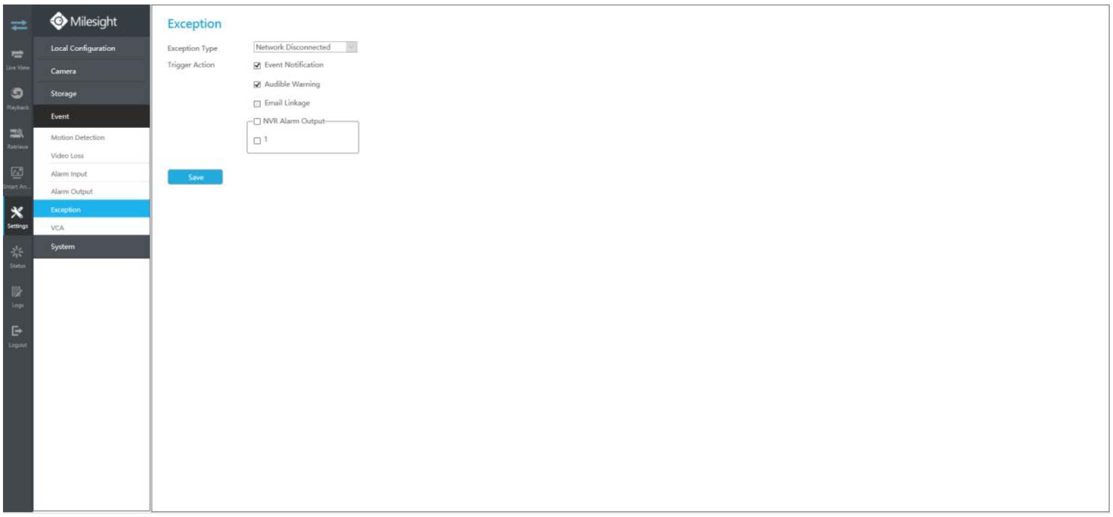
Step 2: Set effective time.



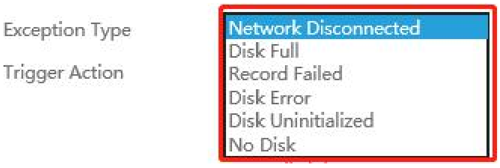
Step3. Click [Copy to Alarm] and 🟦 to copy the same configuration to other alarm channels.



4.8.4.5 Exception



Step1. Select Exception Type.



Network Disconnected: Loss of network.

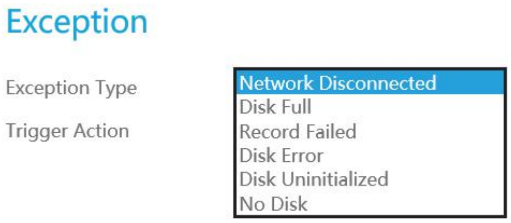
Disk Full: HDD full, it usually happens when Recycle Mode is OFF.

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

Disk Error: Failed to recognize HDD.

Disk Uninitilized: HDD is uninitialized.

No Disk: There is no Disk.



Step 2. Select Action includes Event Notification, Audible Warning, Email Linkage and Alarm Output.

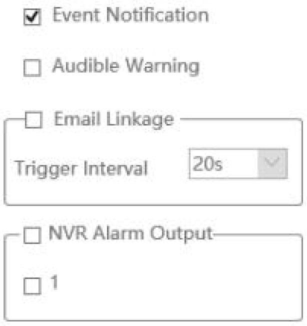
Event Notification: You will got a notification in Live View if an alarm is triggered.

Audible Warning: NVR will trigger an audible beep.

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

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

NVR Alarm Output: NVR will trigger the corresponding Alarm Output.



☑ Event Notification

☐ Audible Warning

☐ Email Linkage

Trigger Interval 20s

☐ NVR Alarm Output

☐ 1

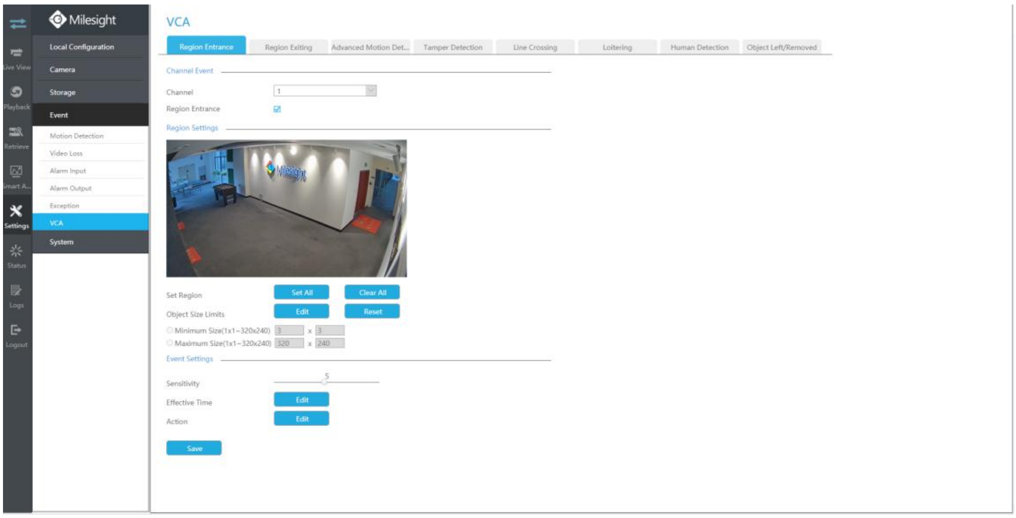
4.8.4.6 VCA

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

Region Entrance

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

Step 1. Select channel.



Channel Event

Channel: 1

Region Entrance ☑

Region Settings

Set Region

Object Size Limits

○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

Event Settings

Sensitivity: 5

Effective Time

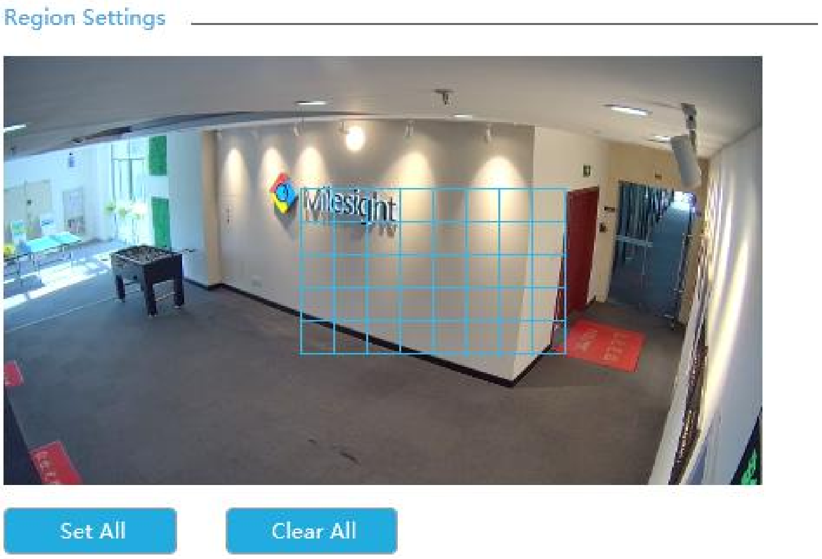
Action

Step 2. Enable Region Entrance.

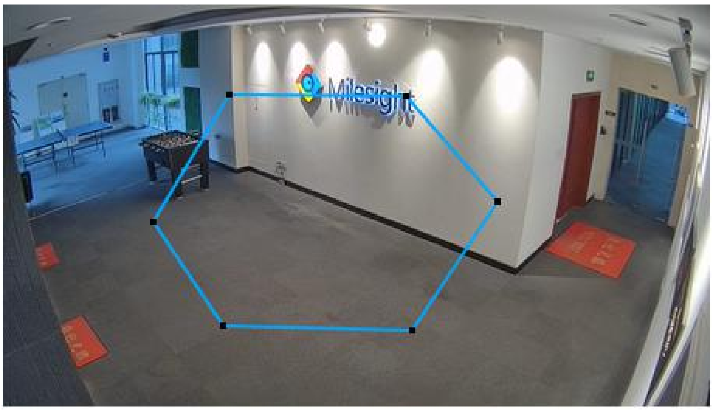
Region Entrance ☑

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 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 4. Set Sensitivity to trigger event.

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.

Detection Object ☑ Human ☑ Vehicle

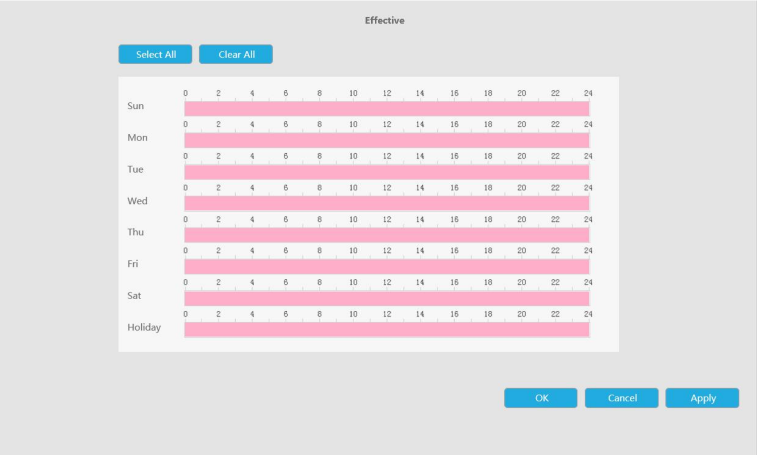
Note：

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

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

Step 6. Set Effective Time of region entrance by clicking Edit .

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


Effective

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

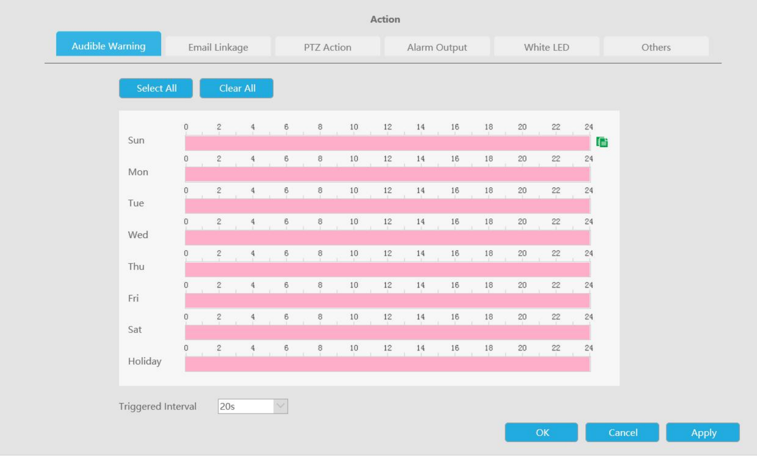
Audible Warning: NVR will trigger an audible beep when motion is detected.

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

Moreover, you can click time bar to edit the time accurately.

Click 📋 to copy time setting to other day.

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



Triggered Interval 20s

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

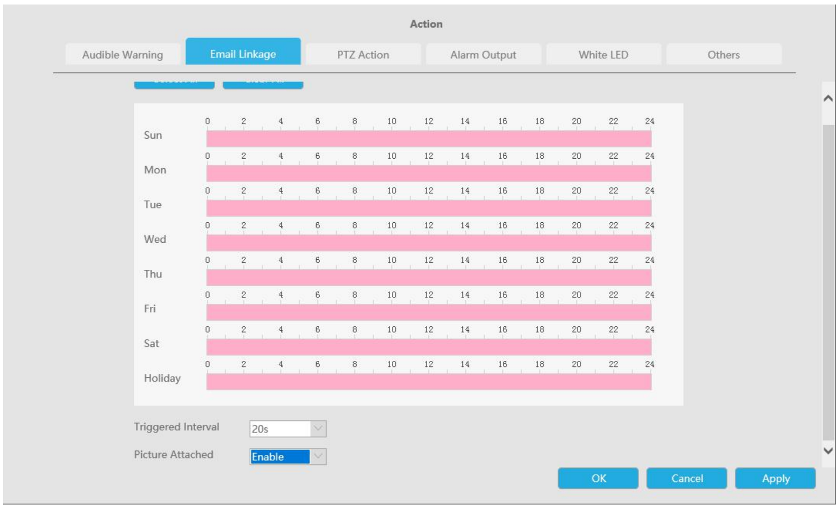
Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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.



Triggered Interval 20s

Picture Attached Enable

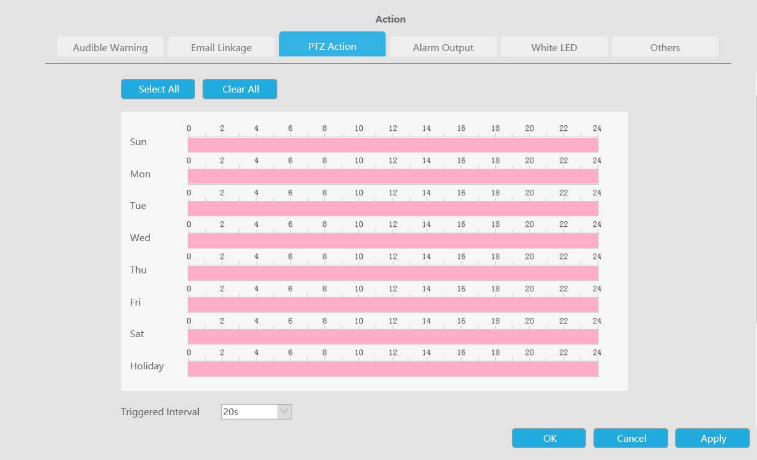
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

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.

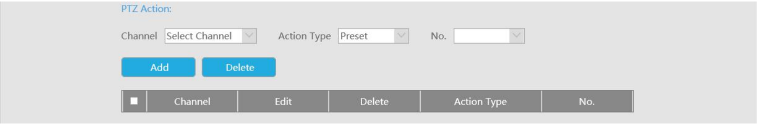
Click to copy time setting to other day.

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



Triggered Interval 20s

And you can add PTZ Action.



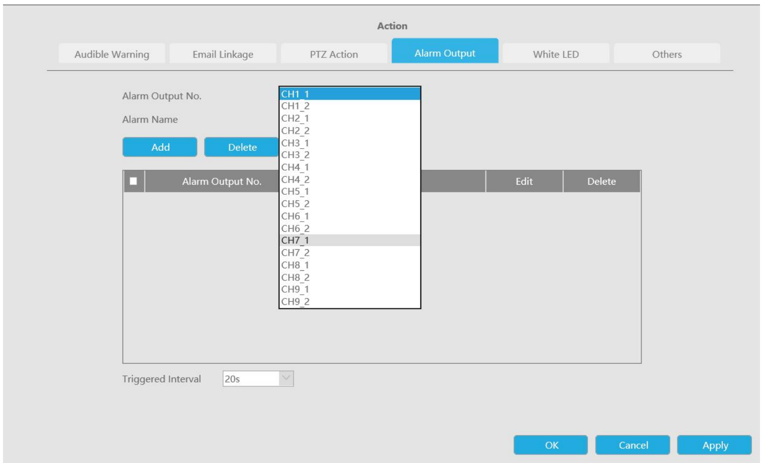
Channel: Select the channel which supports this function.

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.



Triggered Interval 20s

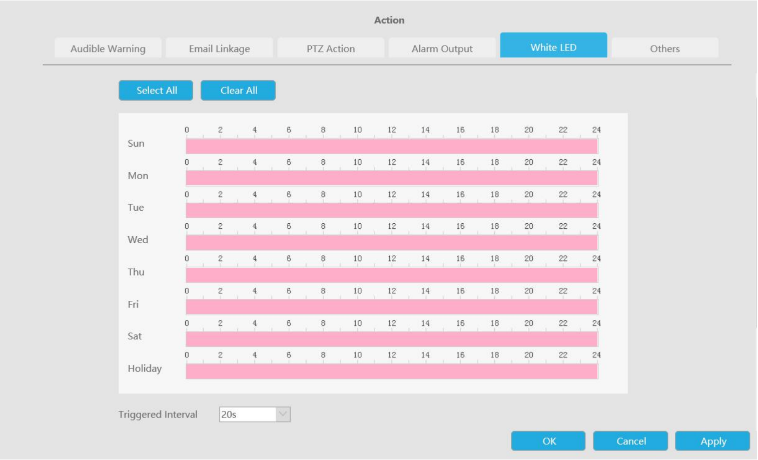
White LED: Trigger White LED flashing when alarm is triggered.

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

Moreover, you can click time bar to edit the time accurately.

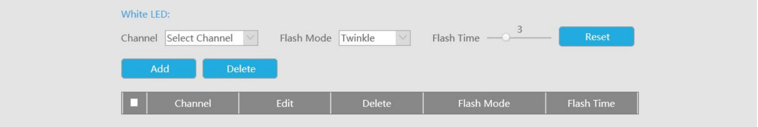
Click to copy time setting to other day.

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



Triggered Interval 20s

And you can add White LED.



Channel: Select Channel

Flash Mode: Twinkle

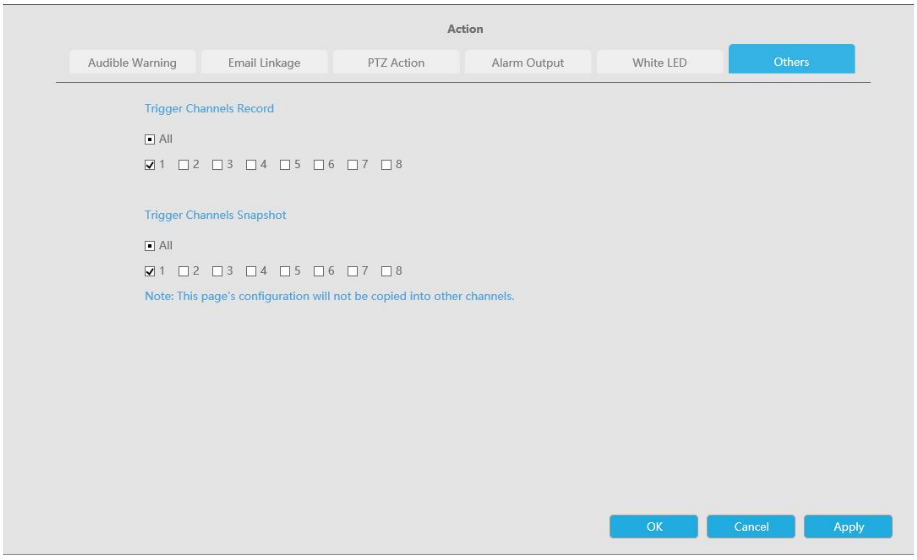
Flash Time: 3

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.



Trigger Channels Record

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

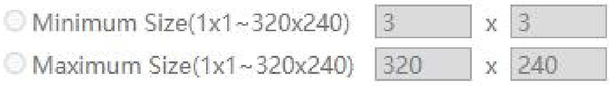
Trigger Channels Snapshot

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

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

Step 7. Set Minimum Size and Maximum Size.



○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

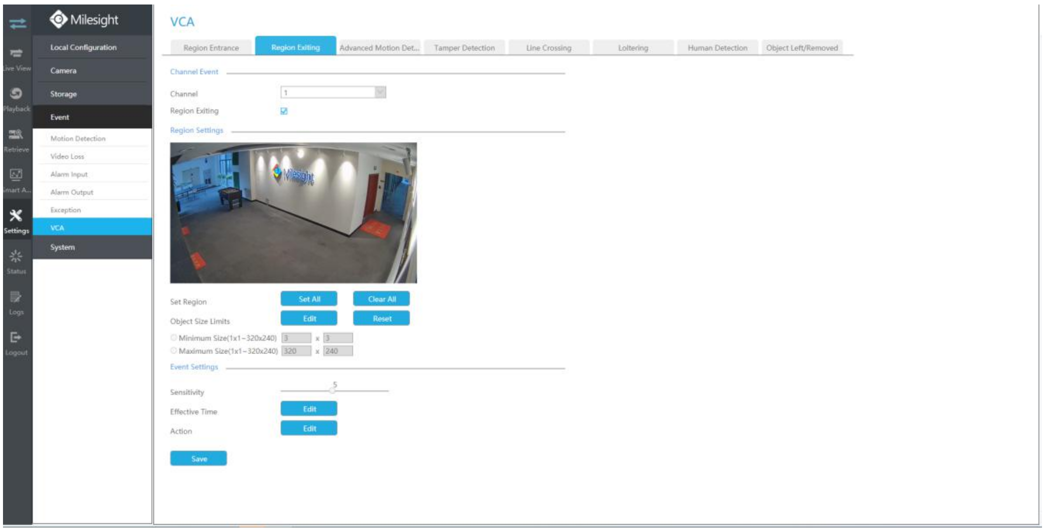
Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Region Entrance will take effect.

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

Region Exiting

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

Step 1. Select channel.



Channel: 1

Region Exiting: ☑

○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

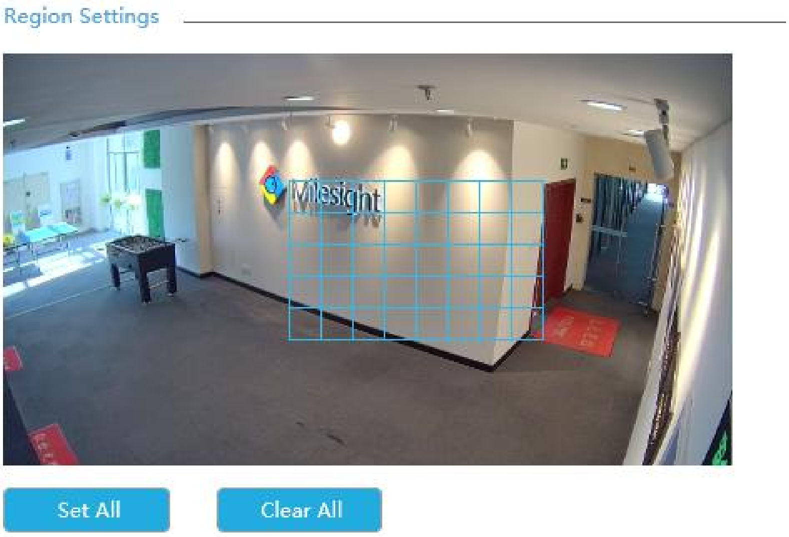
Sensitivity: 5

Step 2. Enable Region Exiting.

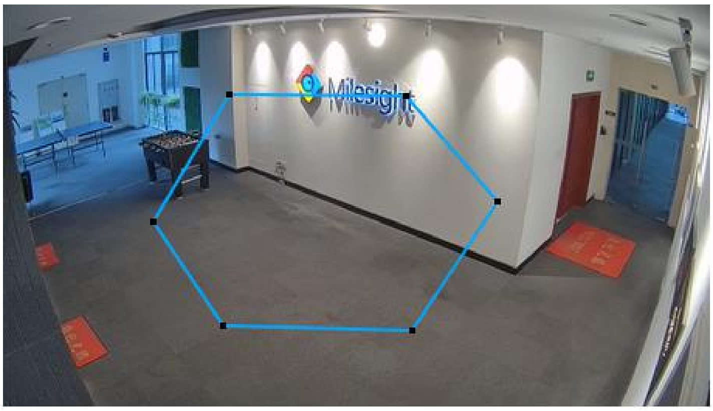
Region Exiting ☑

Step 3. Set exit detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking 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 4. Set Sensitivity to trigger event.

Step 5. Select the Detection Object.

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

Detection Object ☑ Human ☑ Vehicle

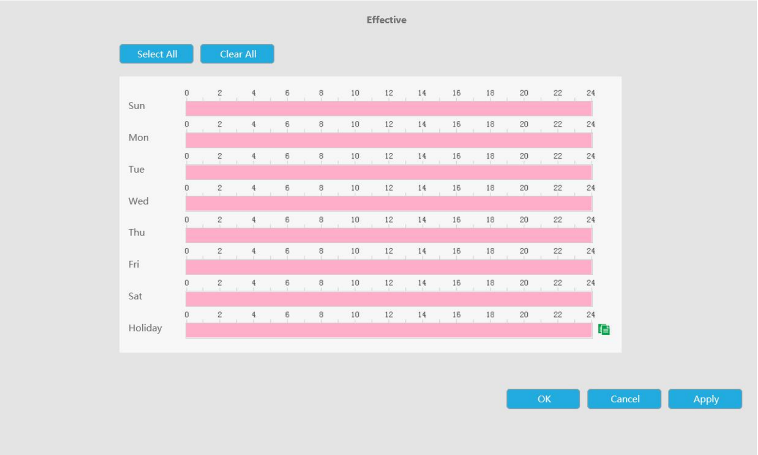
Note:

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

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

Step 6. Set Effective Time of region exiting 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 7. Set Action for region exiting alarm by clicking Edit .

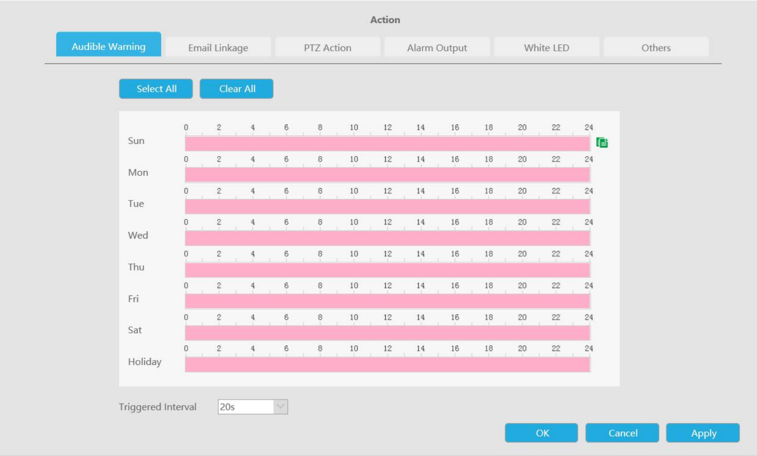
Audible Warning: NVR will trigger an audible beep when motion is detected.

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

Moreover, you can click time bar to edit the time accurately.

Click 📋 to copy time setting to other day.

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



Triggered Interval 20s

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

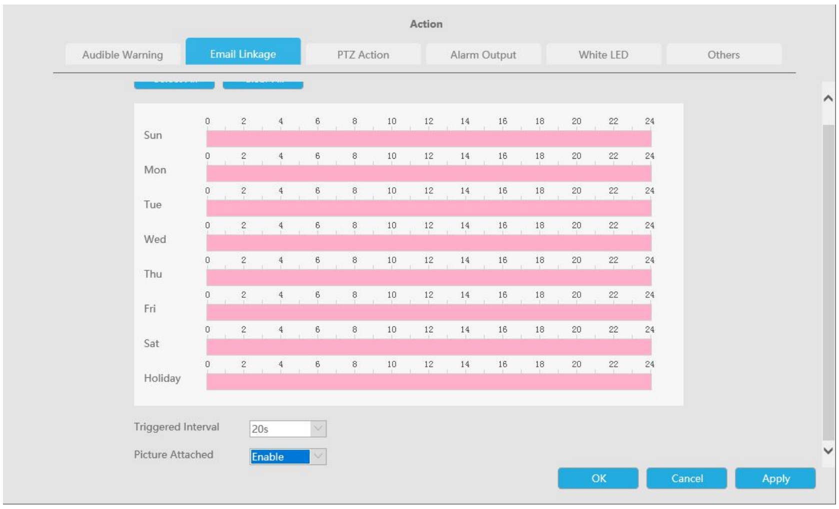
Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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.



Triggered Interval 20s

Picture Attached Enable

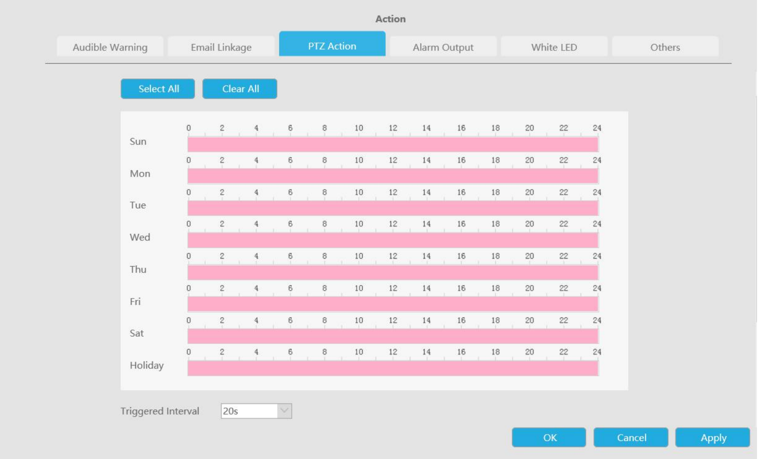
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

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.

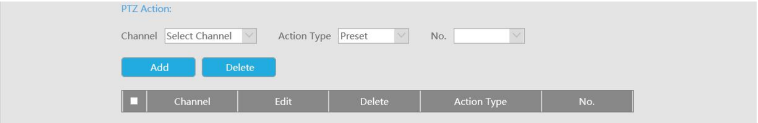
Click to copy time setting to other day.

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



Triggered Interval 20s

And you can add PTZ Action.



Channel Select Channel
Action Type Preset
No.

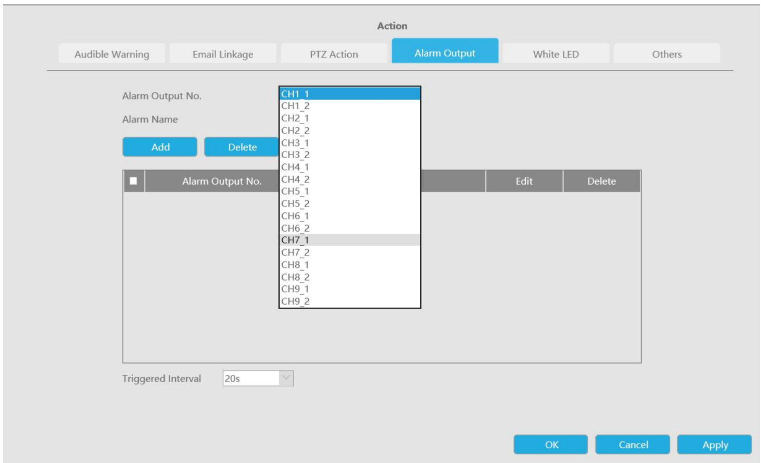
Channel: Select the channel which supports this function.

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.



Triggered Interval 20s

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

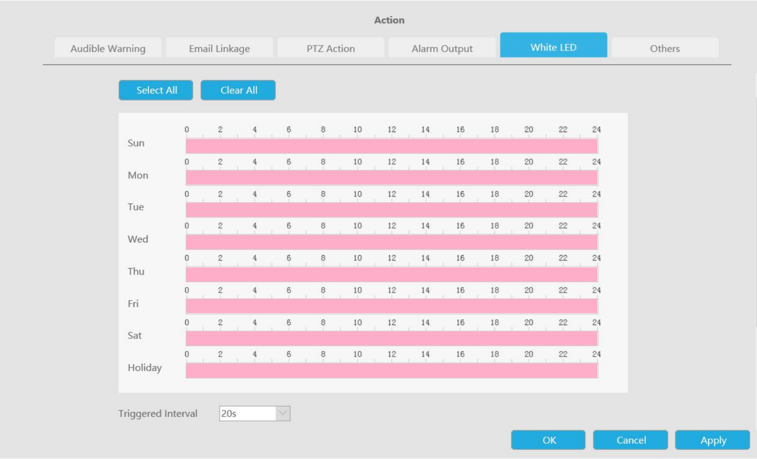
Drag a line on the time table for time setting. It will be more convenient by clicking

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

Moreover, you can click time bar to edit the time accurately.

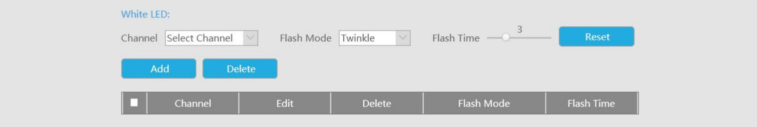
Click 📋 to copy time setting to other day.

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



Triggered Interval 20s

And you can add White LED.



Channel: Select Channel

Flash Mode: Twinkle

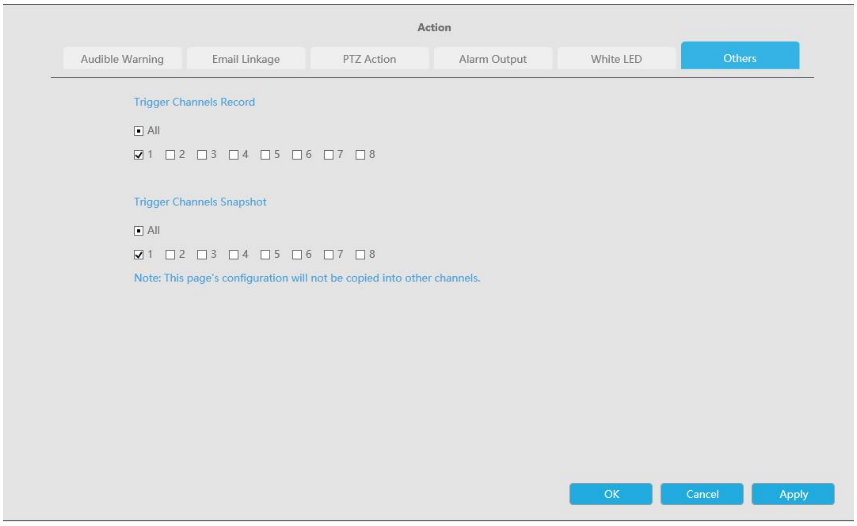
Flash Time: 3

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.



Trigger Channels Record

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

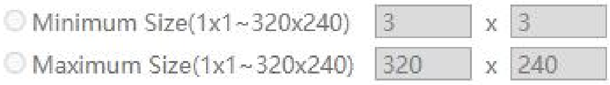
Trigger Channels Snapshot

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

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

Step 8. Set Minimum Size and Maximum Size.



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

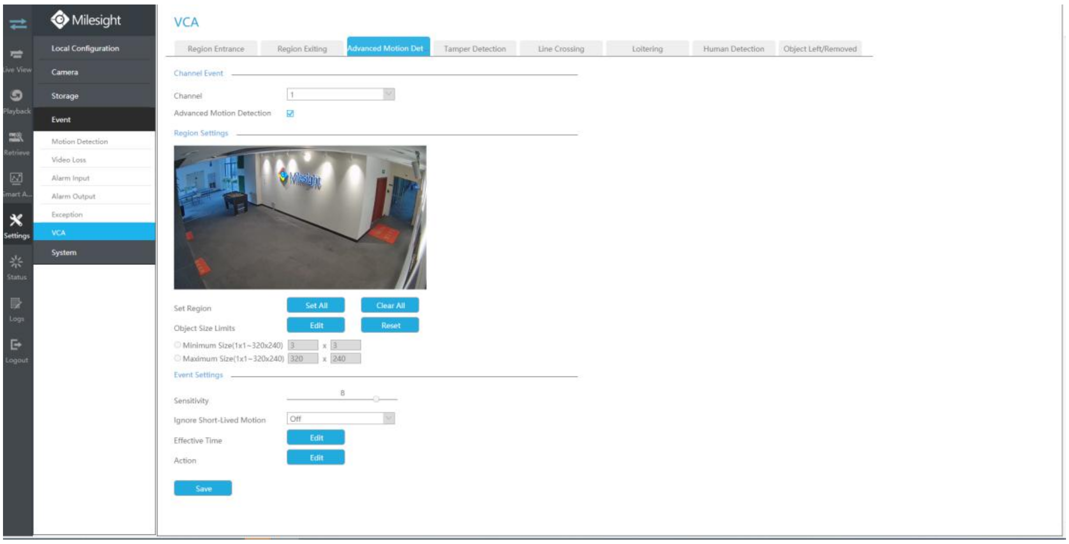
Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Region Exiting will take effect.

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

Advanced Motion Detection

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

Step 1. Select channel.



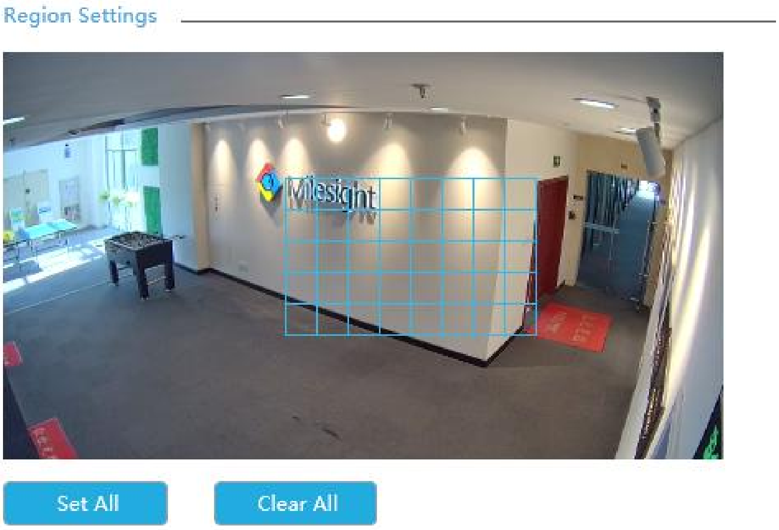
Channel: 1
Advanced Motion Detection ☑
Set Region
Object Size Limits
○ Minimum Size(1x1~320x240) 3 x 3
○ Maximum Size(1x1~320x240) 320 x 240
Sensitivity: 8
Ignore Short-Lived Motion: Off
Effective Time
Action

Step 2. Enable Advanced Motion Detection.

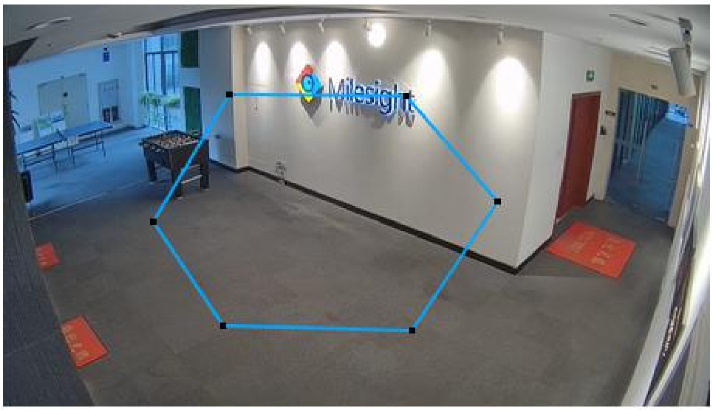
Advanced Motion Detection ☑

Step 3. Set advanced motion detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking 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 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 7

Step 5. Select the Detection Object.

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

Detection Object ☑ Human ☑ Vehicle

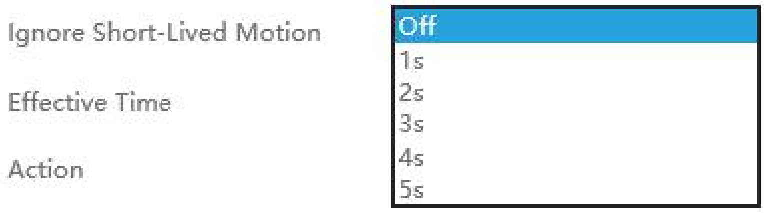
Note：

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

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

Step 6. Set 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.



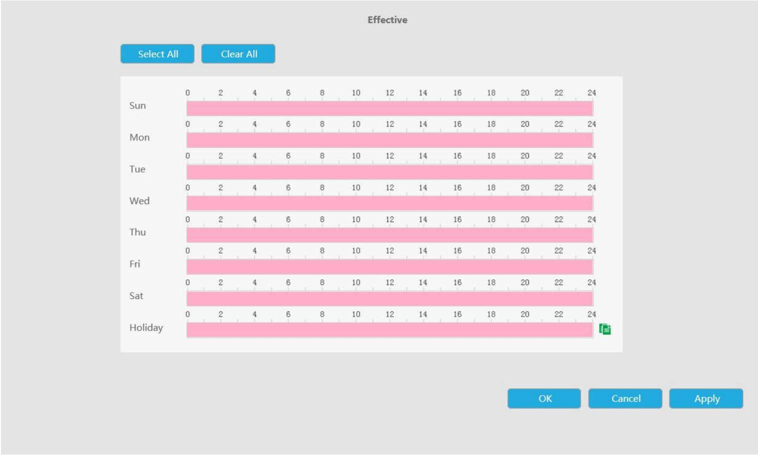
Ignore Short-Lived Motion
Effective Time
Action

Note:

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

Step 7. Set Effective Time of advance motion 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 7. Set Action for advanced motion detection alarm by clicking Edit**.**

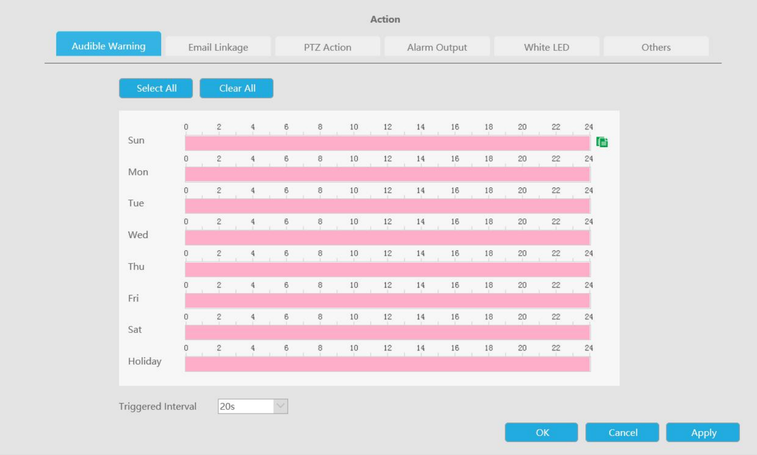
Audible Warning: NVR will trigger an audible beep when motion is detected.

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

Moreover, you can click time bar to edit the time accurately.

Click ⧉ to copy time setting to other day.

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



Triggered Interval 20s

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

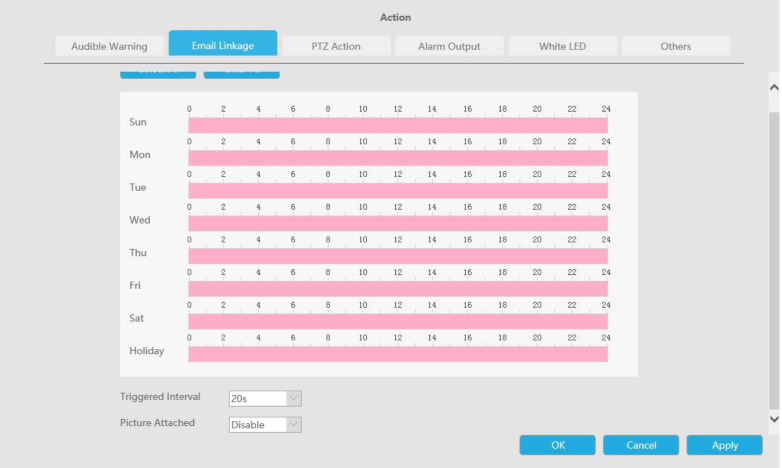
Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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.



Triggered Interval 20s

Picture Attached Disable

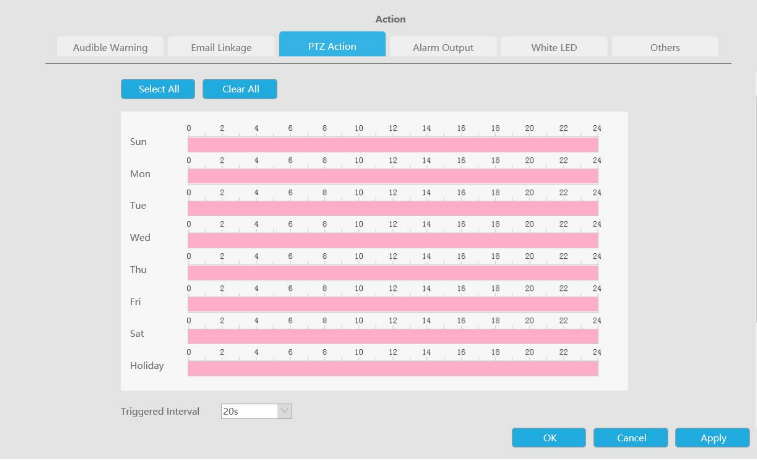
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

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.

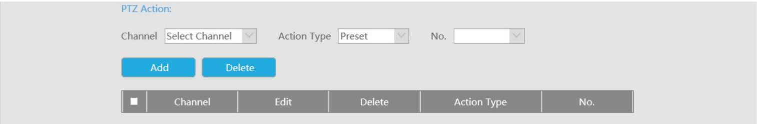
Moreover, you can click time bar to edit the time accurately.

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.



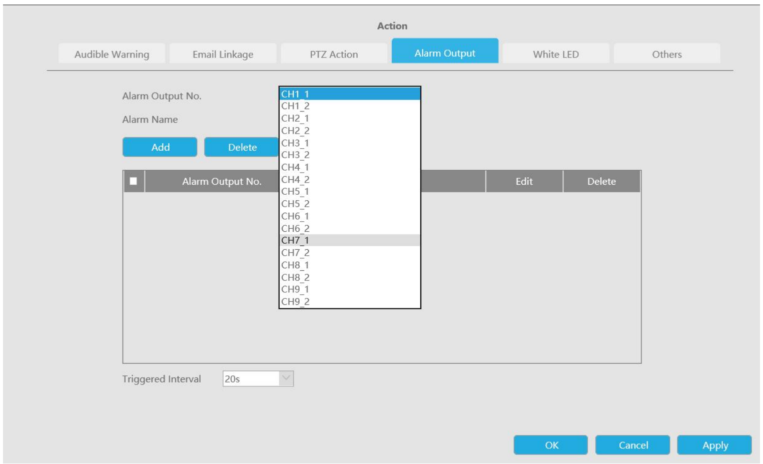
Channel: Select the channel which supports this function.

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.



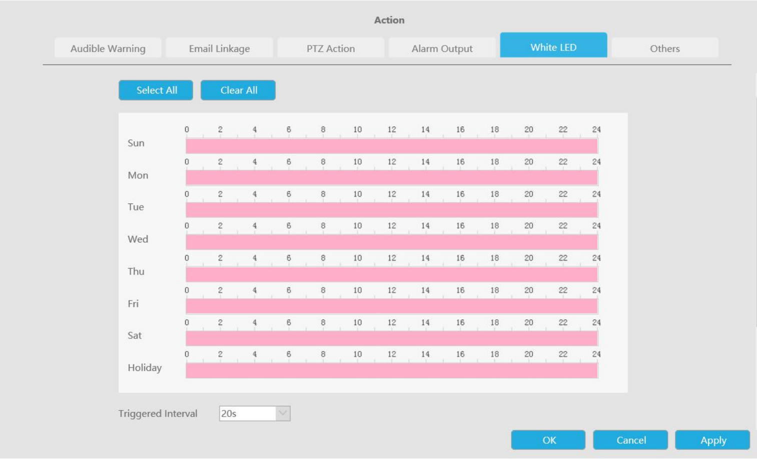
White LED: Trigger White LED flashing when alarm is triggered.

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.

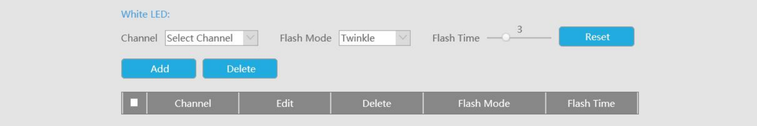
Click to copy time setting to other day.

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



Triggered Interval: 20s

And you can add White LED.



Channel: Select Channel

Flash Mode: Twinkle

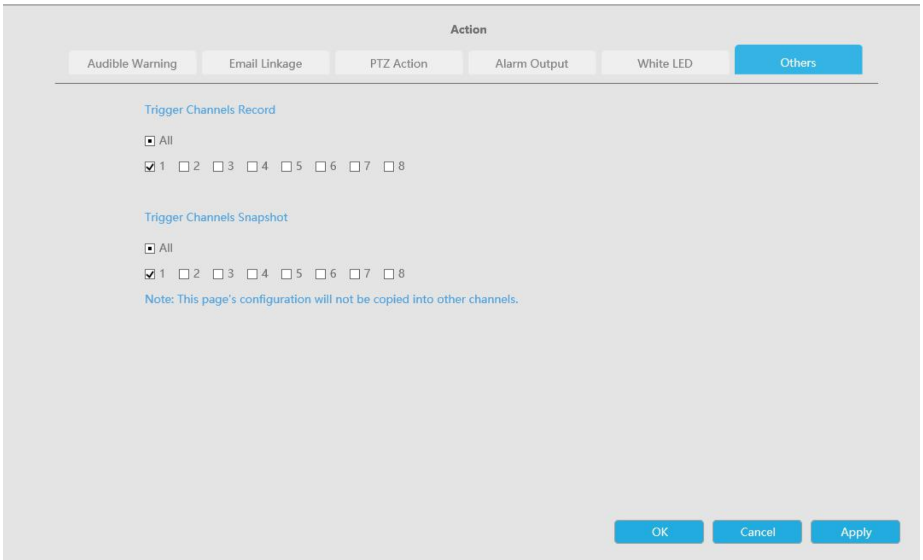
Flash Time: 3

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.



Trigger Channels Record

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

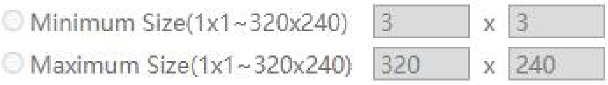
Trigger Channels Snapshot

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

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

Step 8. Set Minimum Size and Maximum Size.



○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

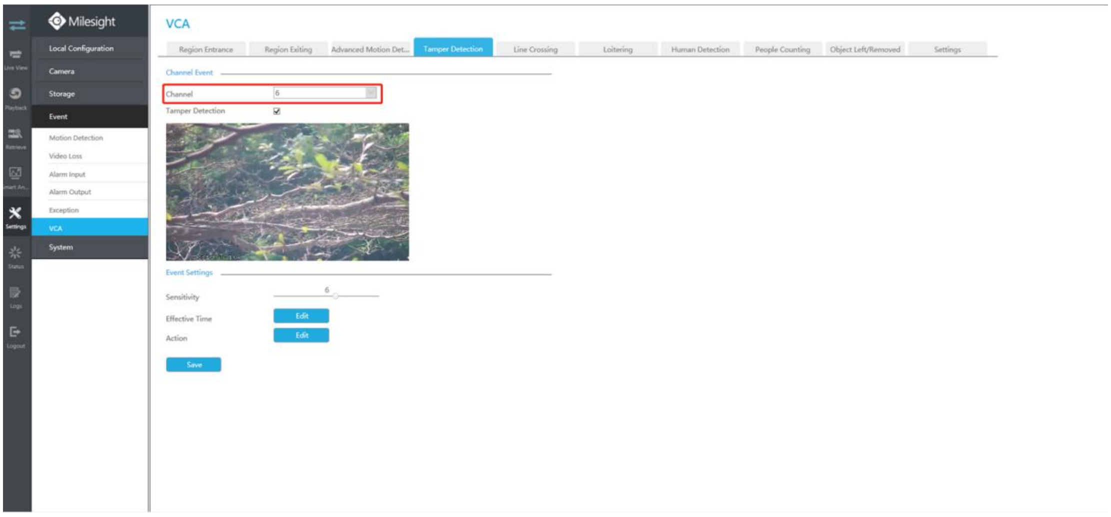
Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Advanced Motion Detection will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Advanced Motion Detection will take effect.

Tamper Detection

Tamper Detection is used to detect possible tampering like the camera being unfocused, obstructed or moved. This functionality alerts security staff immediately when any above-mentioned actions occur.

Step 1. Select channel.



Channel: 6

Tamper Detection: ☑

Sensitivity: 6

Effective Time

Action

Step 2. Enable Tamper Detection.

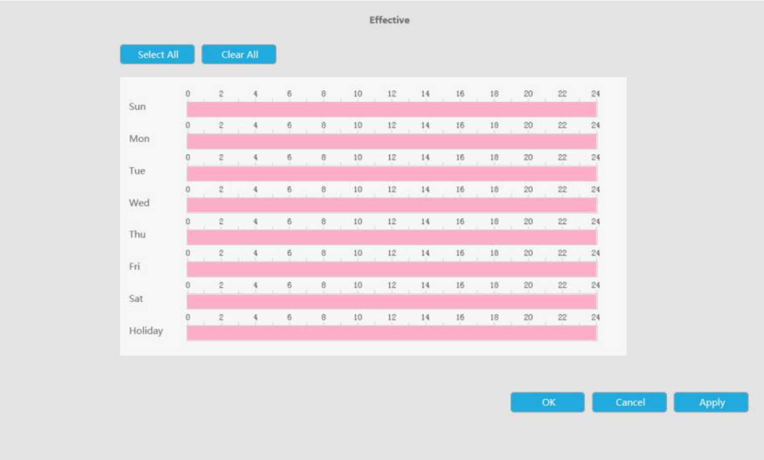
Tamper Detection ☑

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.

Step 4. 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 5. Set Action for tamper detection alarm by clicking Edit **.**

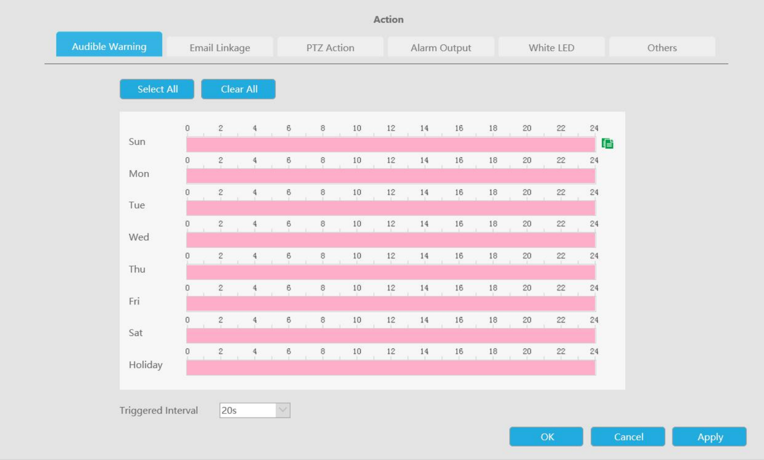
Audible Warning: NVR will trigger an audible beep when motion is detected.

Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📋 to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

Email Linkage: NVR will send an email to the address you set before.

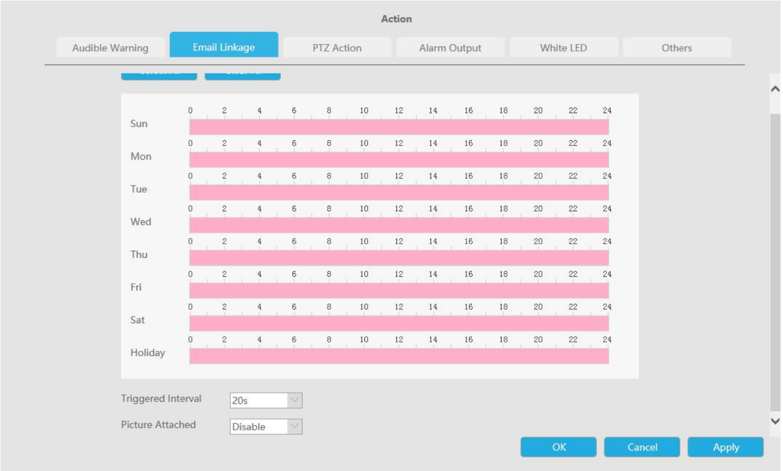
Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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.



Triggered Interval: 20s

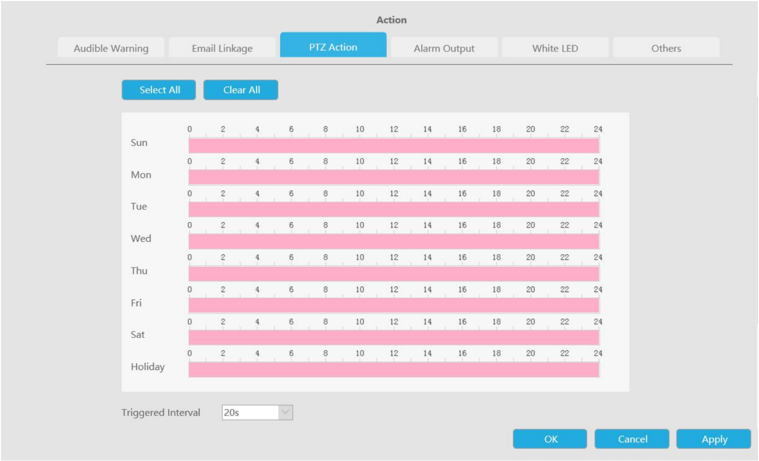
Picture Attached: Disable

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.

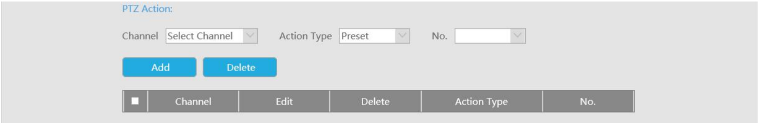
Click 📋 to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval: 20s

And you can add PTZ Action.



Channel: Select Channel

Action Type: Preset

No.:

☐	Channel	Edit	Delete	Action Type	No.

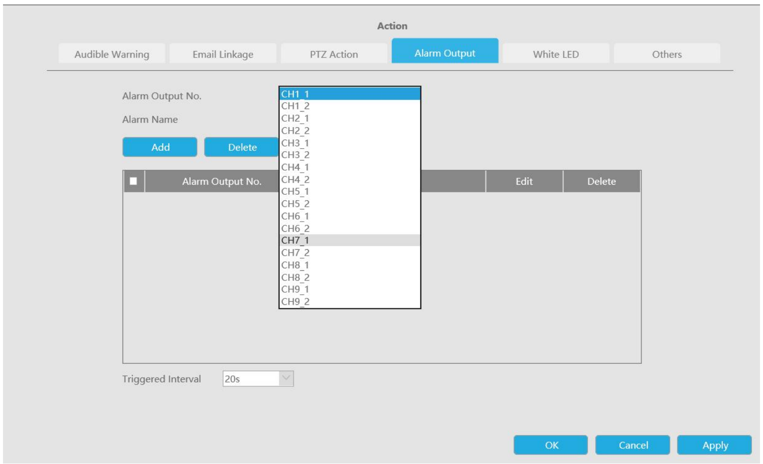
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

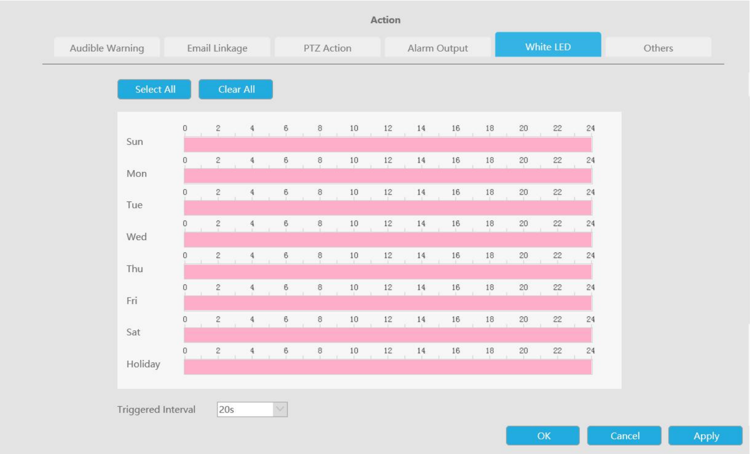
White LED: Trigger White LED flashing when alarm is triggered.

Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

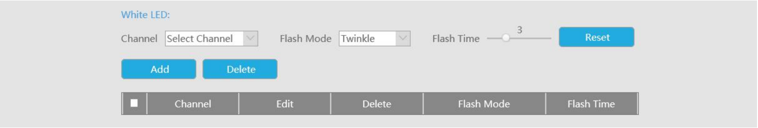
Click 📋 to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

And you can add White LED.



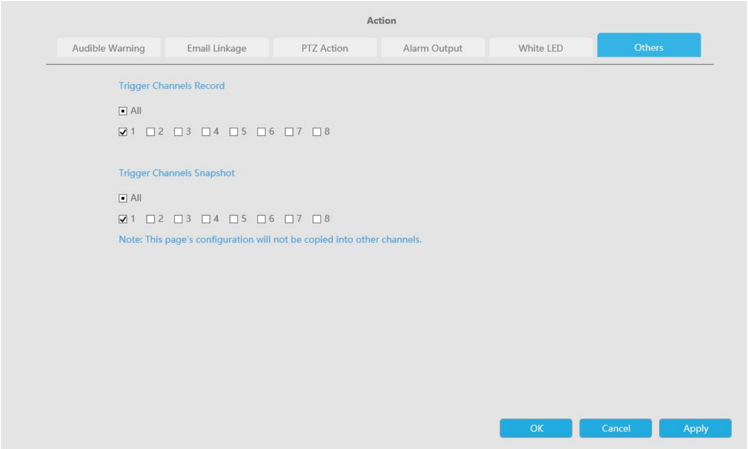
Channel Select Channel
Flash Mode Twinkle
Flash Time 3

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

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

Trigger Channels Snapshot

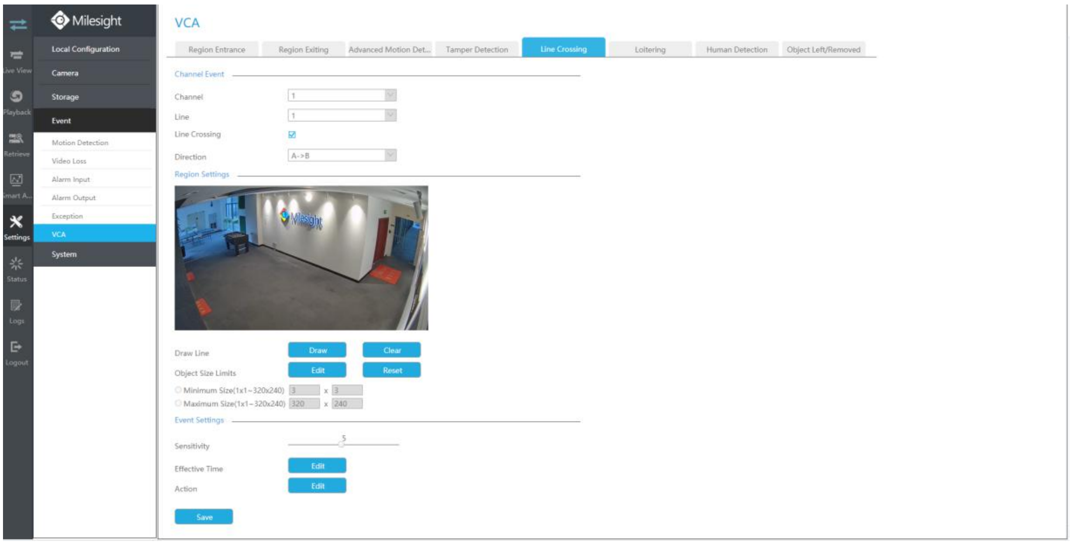
☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

Note: This page's configuration will not be copied into other channels.

OK | Cancel | Apply

Line Crossing

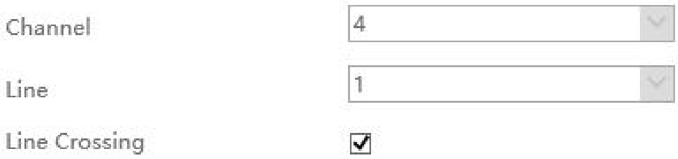


Line Crossing detection is designed to work in most indoor and outdoor environment. An event will be triggered every time when the camera detects objects crossing a defined virtual line.

Settings steps are shown as follows:

Step 1: Select channel and choose detection line number.

Step 2. Enable Line Crossing.



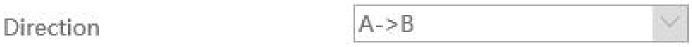
Channel 4

Line 1

Line Crossing ☑

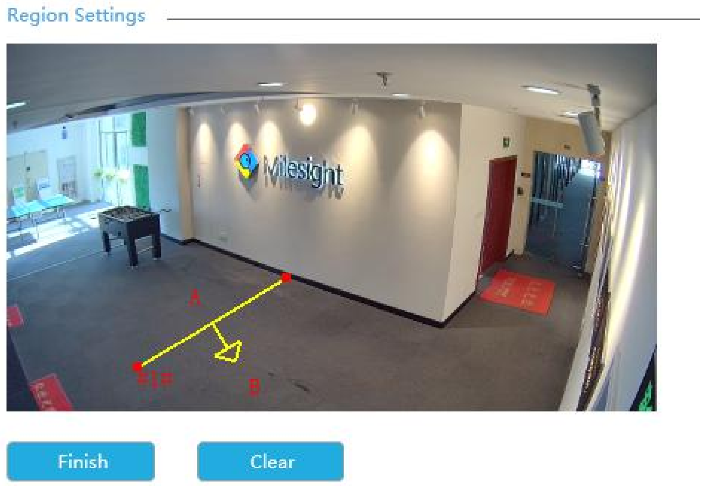
Step 3. Define its direction.

It allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm. "A→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.



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 5

Step 6. Select the Detection Object.

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.

Detection Object ☑ Human ☑ Vehicle

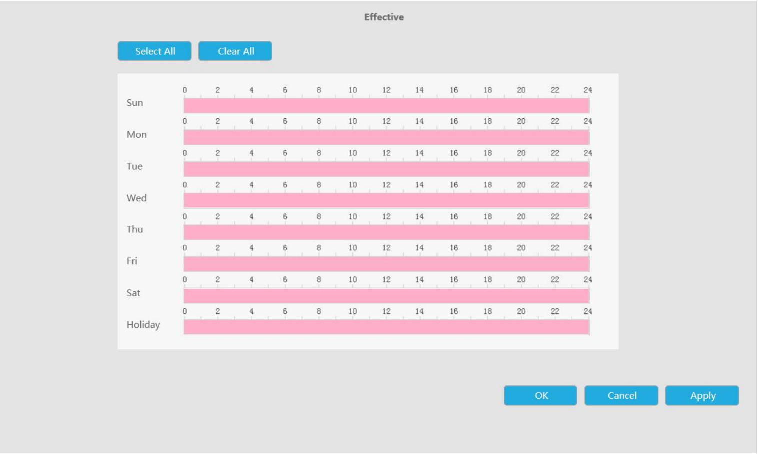
Note：

① Make sure your camera’s version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

② Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

Step 7. Set Effective Time of line crossing by clicking 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 7. Set Action for line crossing alarm by clicking Edit.

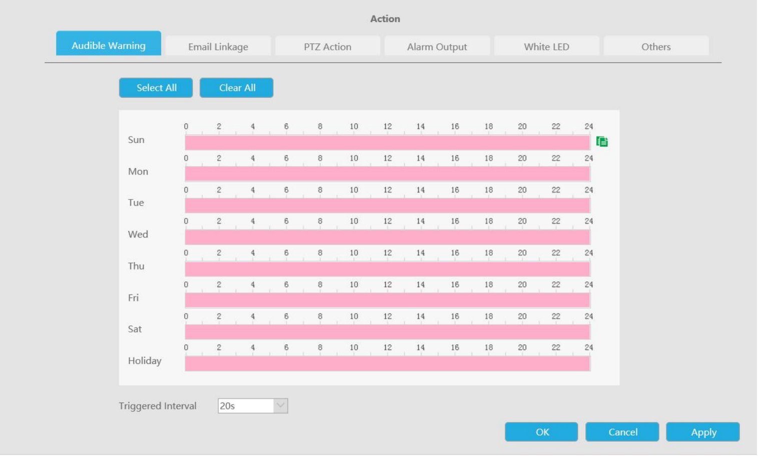
Audible Warning: NVR will trigger an audible beep when motion is detected.

Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

Email Linkage: NVR will send an email to the address you set before.

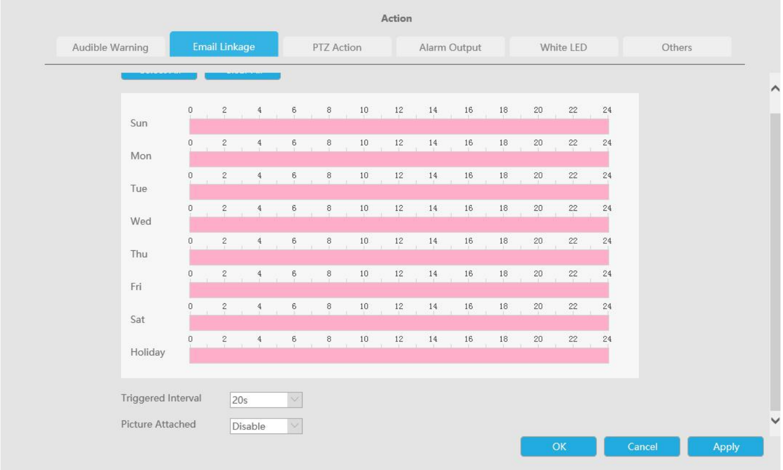
Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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.



Triggered Interval 20s

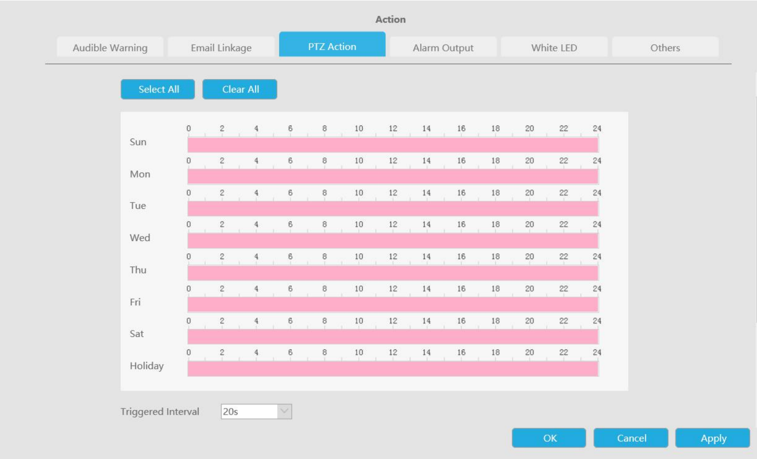
Picture Attached Disable

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.

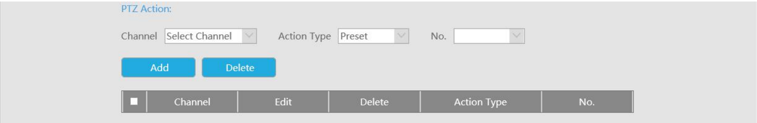
Click 📋 to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

And you can add PTZ Action.



Channel Select Channel Action Type Preset No.

■	Channel	Edit	Delete	Action Type	No.

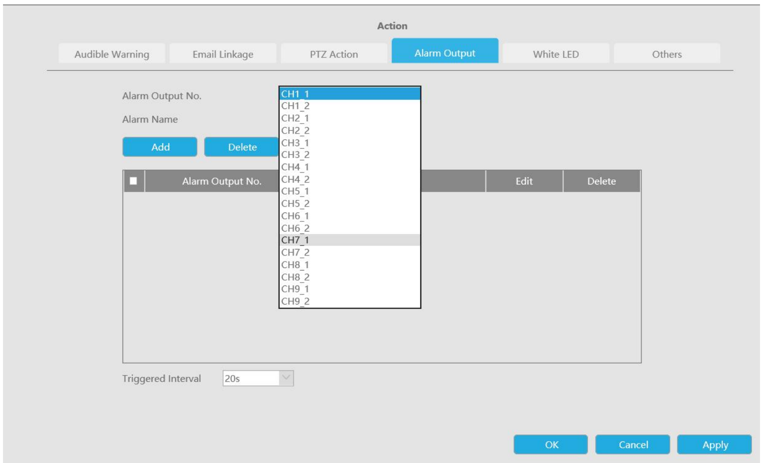
Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx_x (such as CH1_1) according to the camera channel and corresponding alarm number.

Triggered Interval: The effective interval between two actions when event triggered.



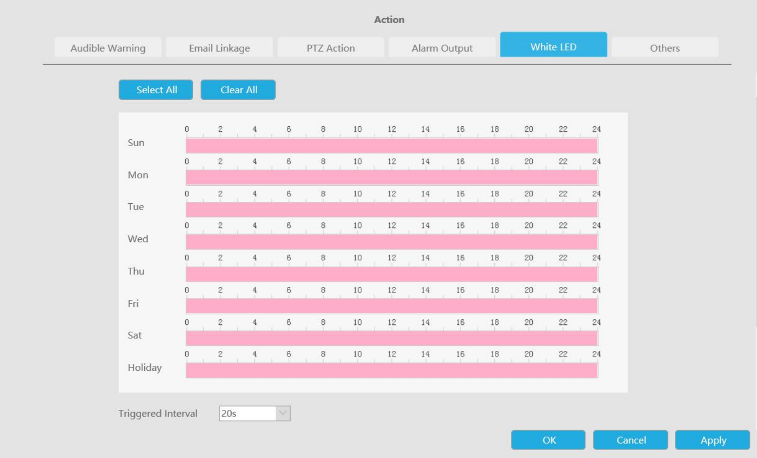
White LED: Trigger White LED flashing when alarm is triggered.

Drag a line on the time table for time setting. It will be more convenient by clicking **Select All** or **Clear All** to set or clear all time settings.

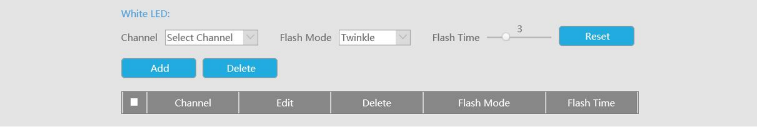
Moreover, you can click time bar to edit the time accurately.

Click 📋 to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



And you can add White LED.

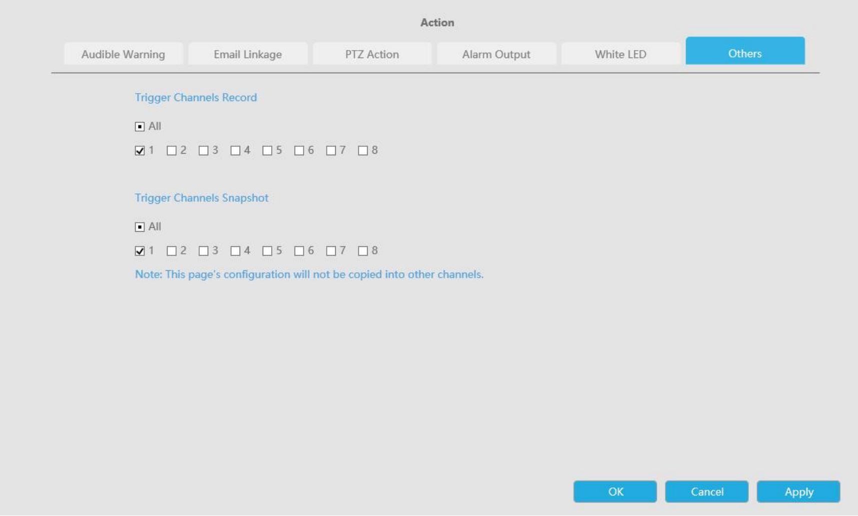


Channel: Select the channel which supports this function.

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.



Trigger Channels Record

▣ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

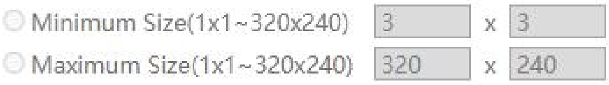
Trigger Channels Snapshot

▣ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

Note: This page's configuration will not be copied into other channels.

Step 8. Set Minimum Size and Maximum Size.



○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

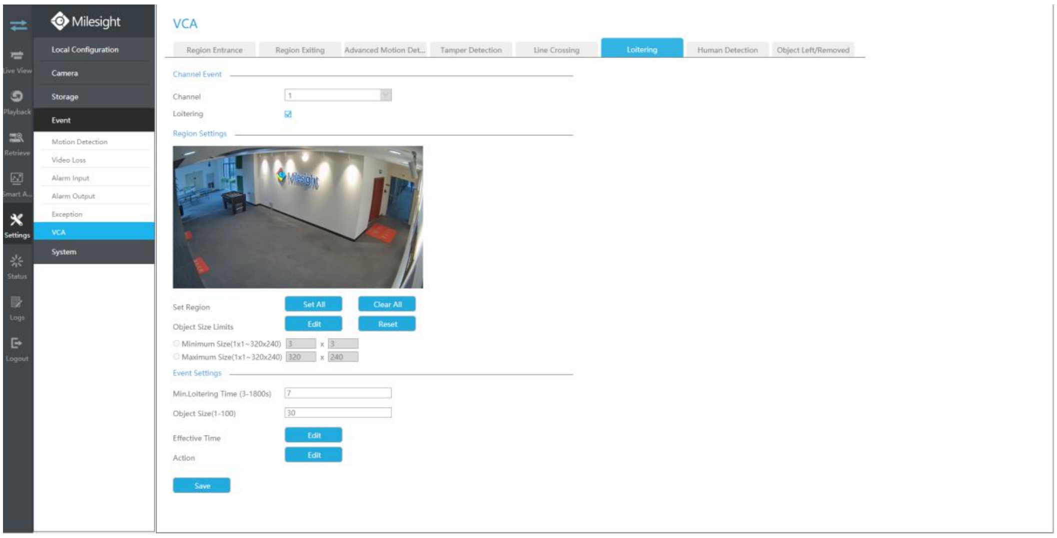
Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Line Crossing will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Line Crossing will take effect.

Loitering

When objects are loitering in a defined area for a specific period of time, it would trigger an alarm.

Step 1. Select channel.



Channel Event

Channel: 1

Loitering: ☑

Region Settings

Set Region

Object Size Limits

○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

Event Settings

Min.Loitering Time (3-1800s): 7

Object Size(1-100): 30

Effective Time

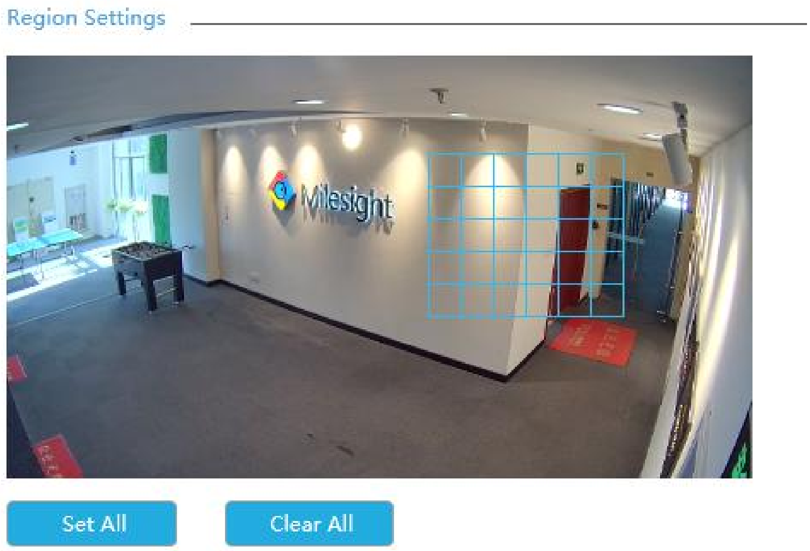
Action

Step 2. Enable Loitering.

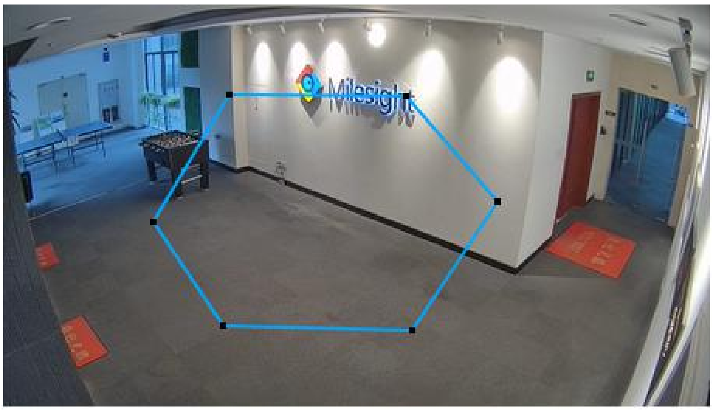
Loitering ☑

Step 3. Set Loitering detected region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking 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 4. Set Min. Loitering Time.

After setting minimum loitering time from 3s to 1800s, any objects loitering in the selected area over the minimum loitering time will trigger the alarm.

Min.Loitering Time (3-1800s) 7

Step 5. Select the Detection Object.

Human or Vehicle or both are selected as the detection object according to the need. Only the selected detection object can trigger the alarm.

Detection Object ☑ Human ☑ Vehicle

Note：

① Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.

② Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

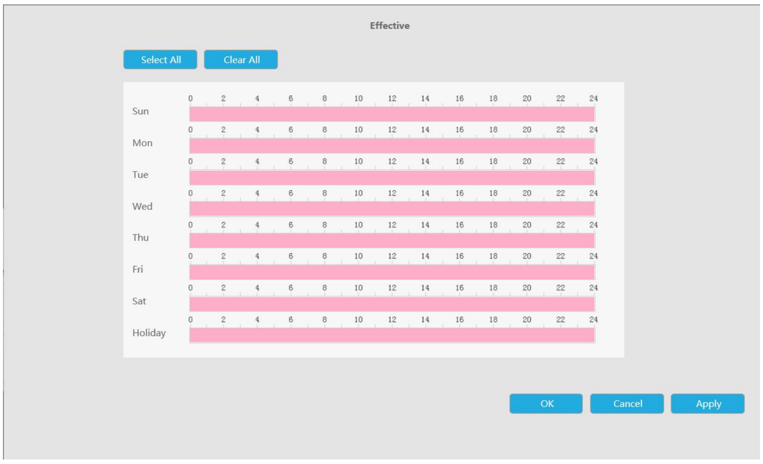
Step 6. Set Object Size.

Also Milesight loitering allows to set “Object Size”. Only the object bigger than the set size will trigger the alarm.

Object Size(1-100) 30

Step 7. Set Effective Time of loitering by clicking Edit .

NVR receives the alarm when effective time has been set. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.



Step 8. Set Action for loitering alarm by clicking Edit **.**

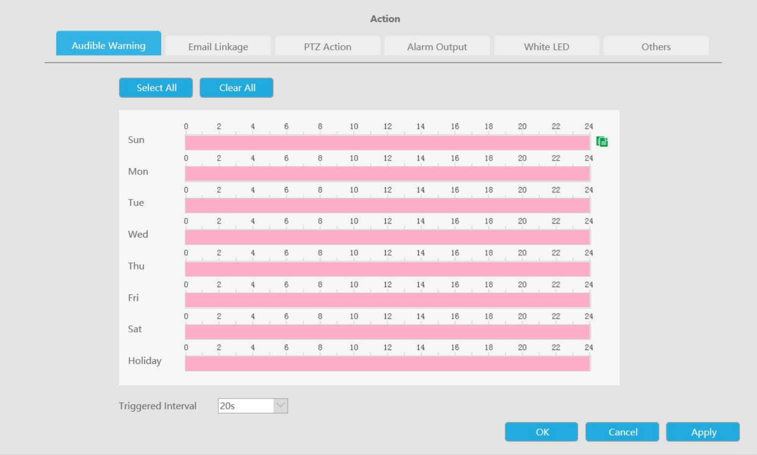
Audible Warning: NVR will trigger an audible beep when motion is detected.

Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📋 to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

Email Linkage: NVR will send an email to the address you set before.

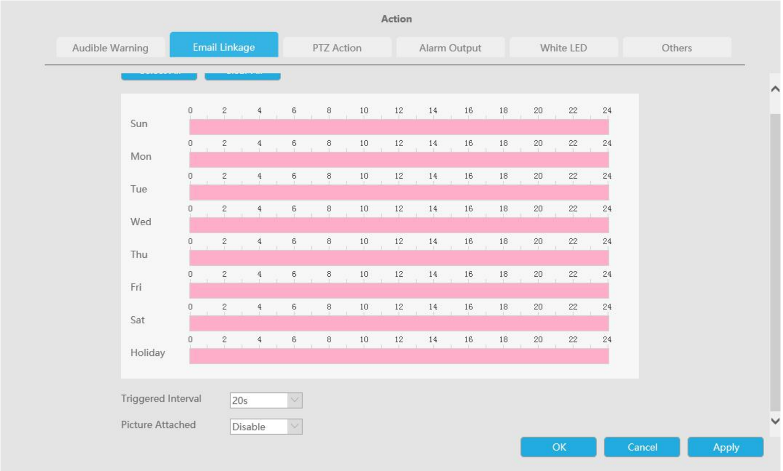
Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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.



Triggered Interval 20s

Picture Attached Disable

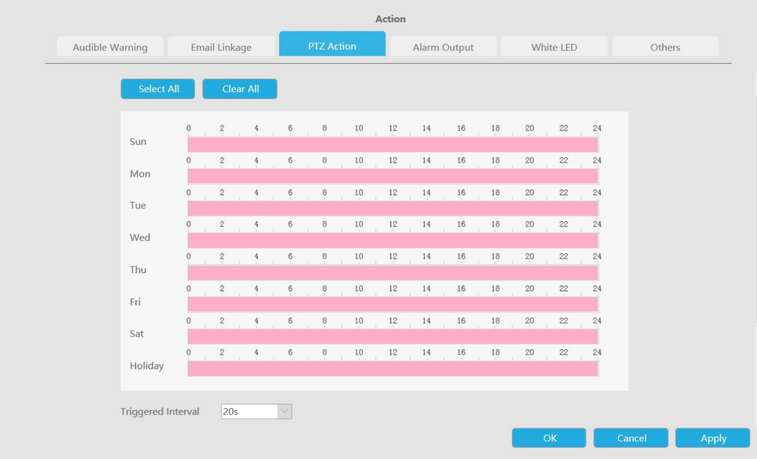
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

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.

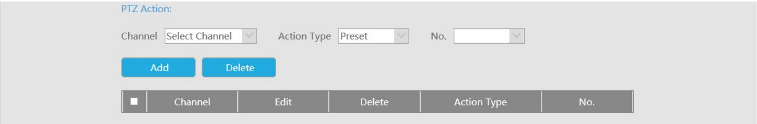
Click to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

And you can add PTZ Action.



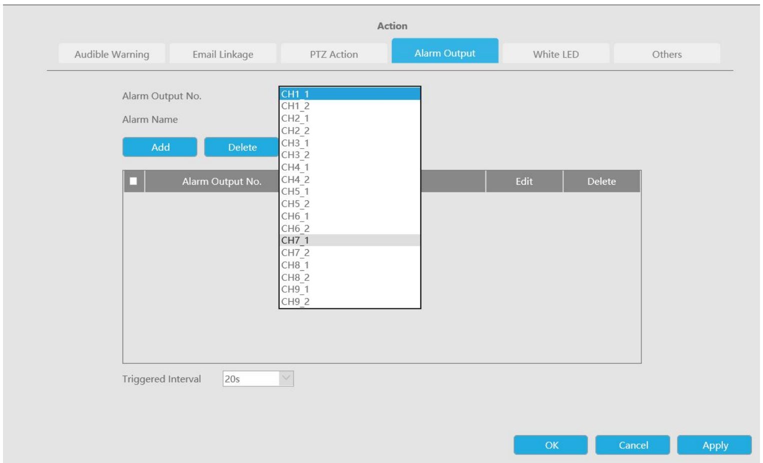
Channel: Select the channel which supports this function.

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.



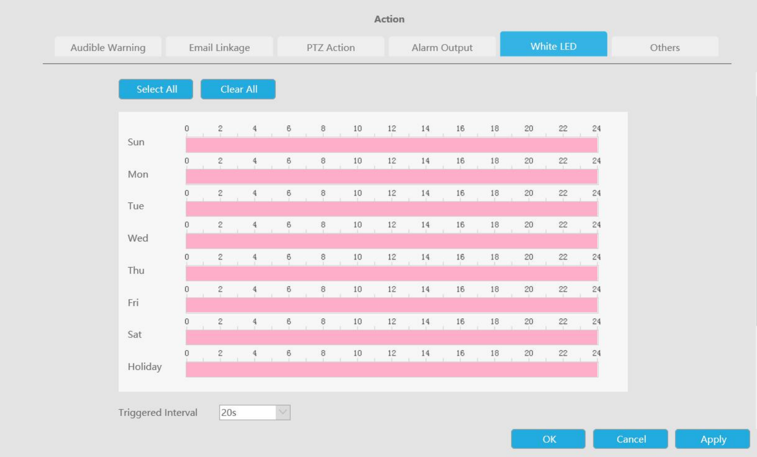
White LED: Trigger White LED flashing when alarm is triggered.

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.

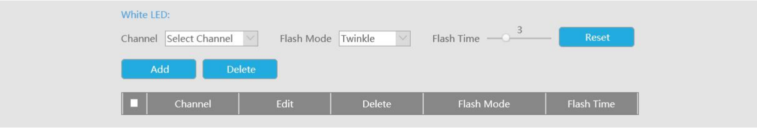
Moreover, you can click time bar to edit the time accurately.

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.


White LED:

Channel: Select Channel

Flash Mode: Twinkle

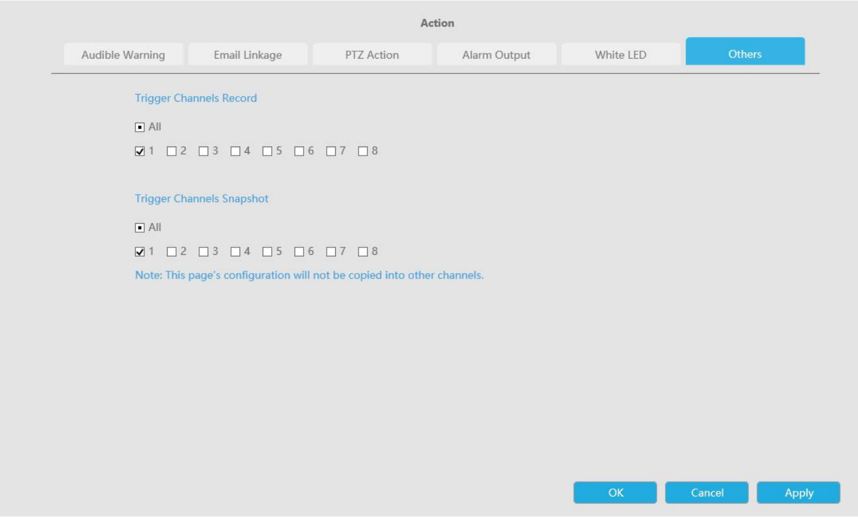
Flash Time: 3

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.



Trigger Channels Record

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

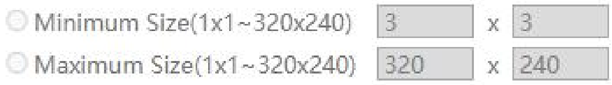
Trigger Channels Snapshot

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

Note: This page's configuration will not be copied into other channels.

Step 9. Set Minimum Size and Maximum Size.


○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

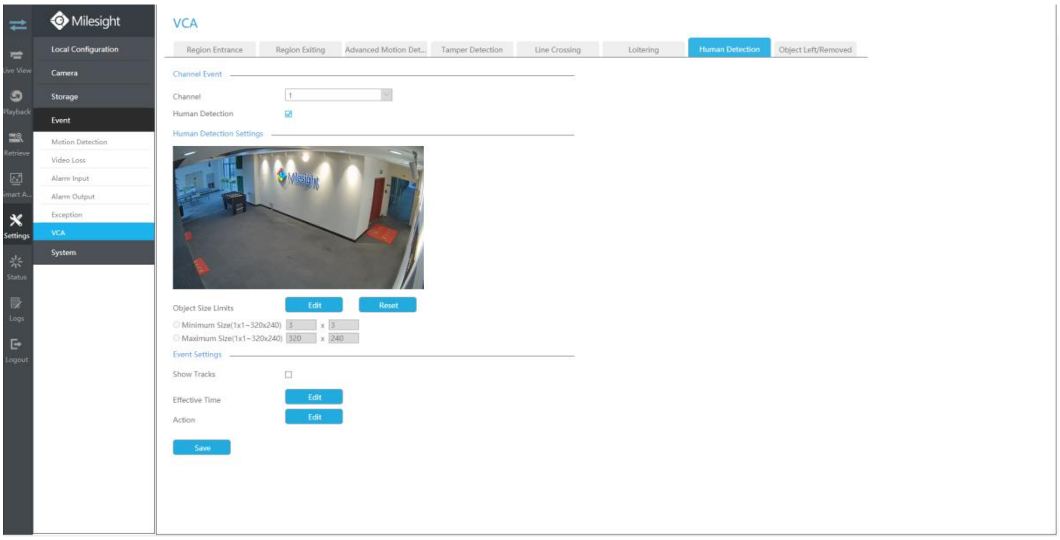
Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for Loitering will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Loitering will take effect.

Human Detection

Human detection is used for figuring out whether an object is a human or not.

Step 1. Select channel.



Channel: 1

Human Detection ☑

○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

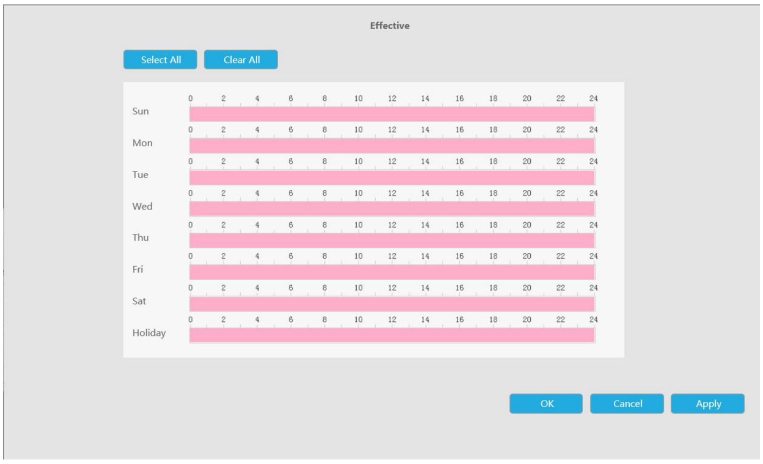
Show Tracks ☐

Step 2. Enable Human Detection.

Human Detection ☑

Step 3. 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 4. Set Action for human detection alarm by clicking Edit **.**

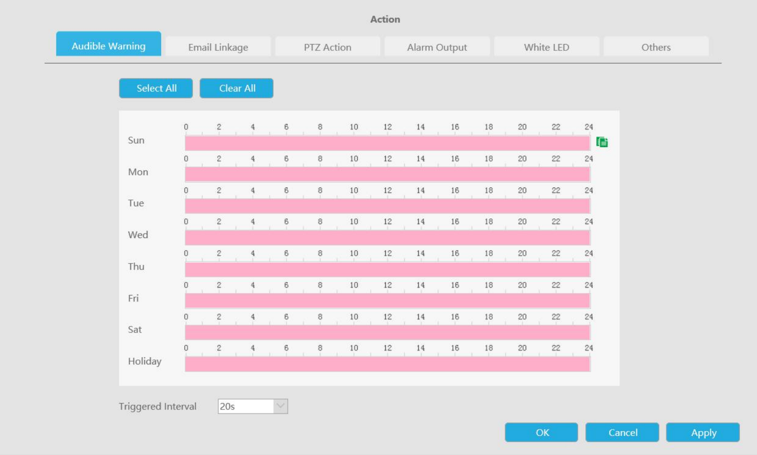
Audible Warning: NVR will trigger an audible beep when motion is detected.

Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📋 to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

Email Linkage: NVR will send an email to the address you set before.

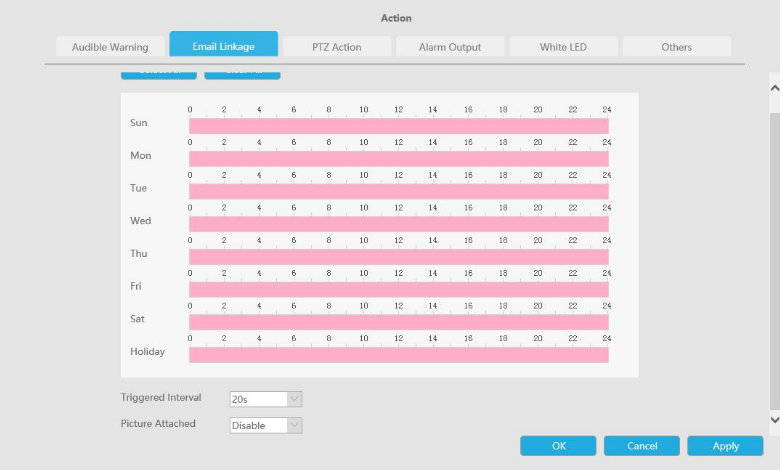
Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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.



Triggered Interval 20s

Picture Attached Disable

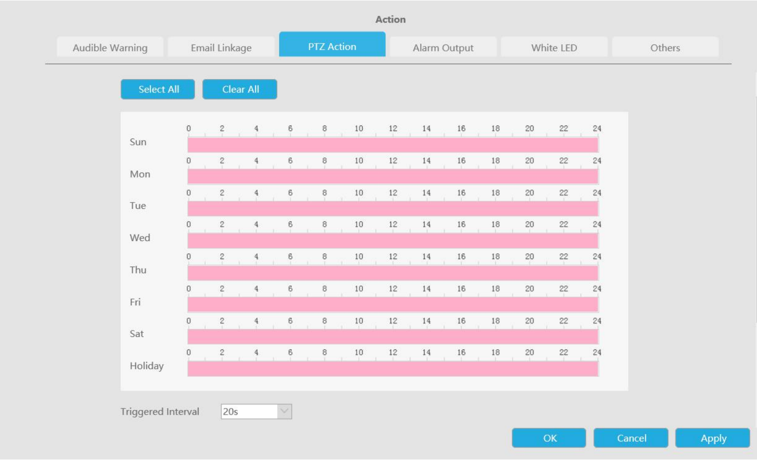
PTZ Action: Trigger PTZ action when alarm is triggered. PTZ action includes **Preset and Patrol.**

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.

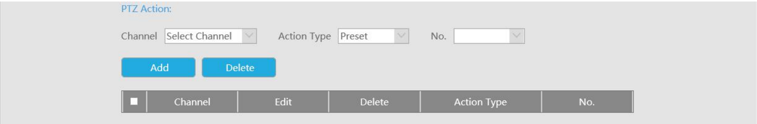
Click 📋 to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

And you can add PTZ Action.



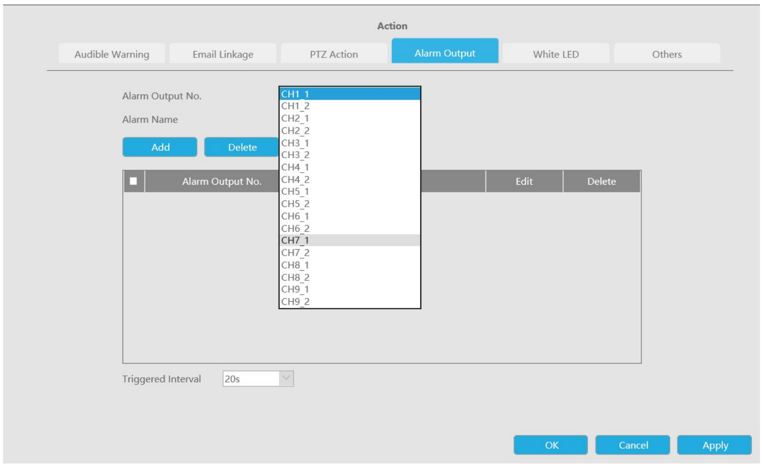
Channel: Select the channel which supports this function.

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.



Triggered Interval 20s

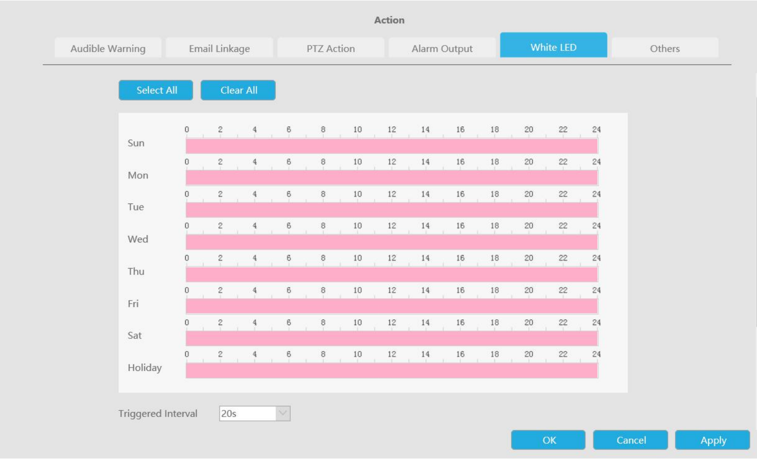
White LED: Trigger White LED flashing when alarm is triggered.

Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

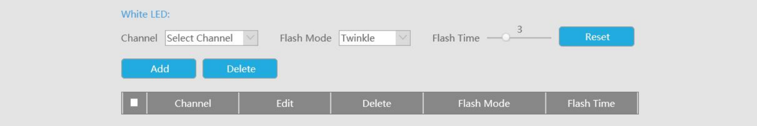
Click to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval: 20s

And you can add White LED.



White LED:

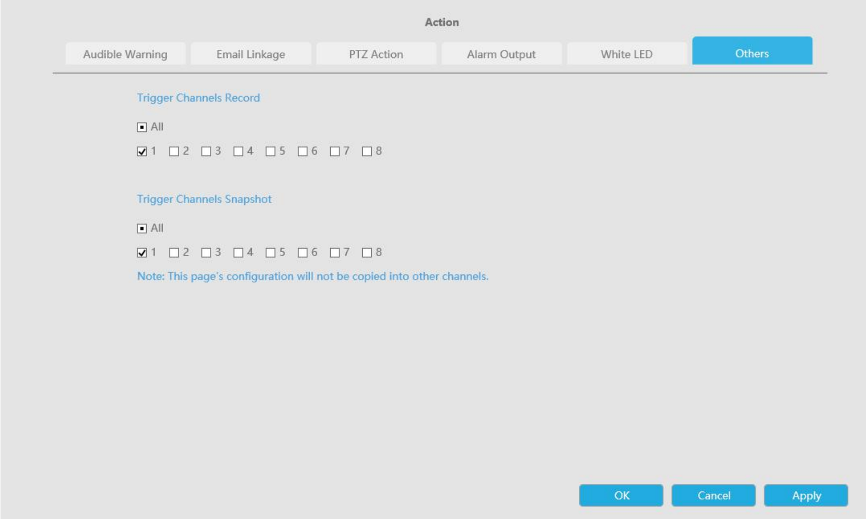
Channel: Select Channel   Flash Mode: Twinkle   Flash Time: 3

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.



Trigger Channels Record

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

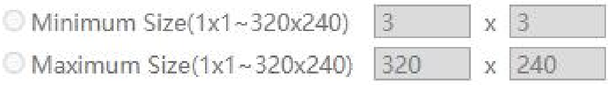
Trigger Channels Snapshot

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

Note: This page's configuration will not be copied into other channels.

Step 5. 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 Human Detection will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Human Detection will take effect.

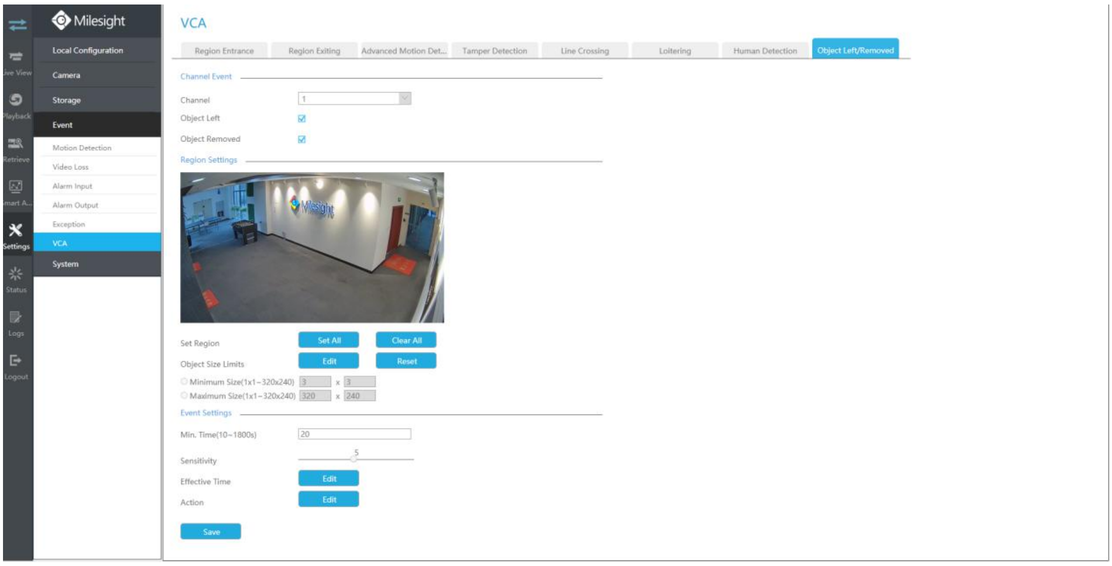
Object Left/Removed

Object Left can detect and prompt an alarm if an object is left in a pre-defined region. Object Removed can detect and prompt an alarm if an object is removed from a pre-defined region.

Note:

You need to upgrade the NVR to V7x.9.0.4-r2 or above to support this function.

Step 1. Select channel and enable Object Left or Object Removed(Or you can enable both features at the same time).



Channel Event

Channel: 1

Object Left: ☑

Object Removed: ☑

Region Settings

Set Region

Object Size Limits

○ Minimum Size(1x1~320x240) 3 x 3

○ Maximum Size(1x1~320x240) 320 x 240

Event Settings

Min. Time(10~1800s): 20

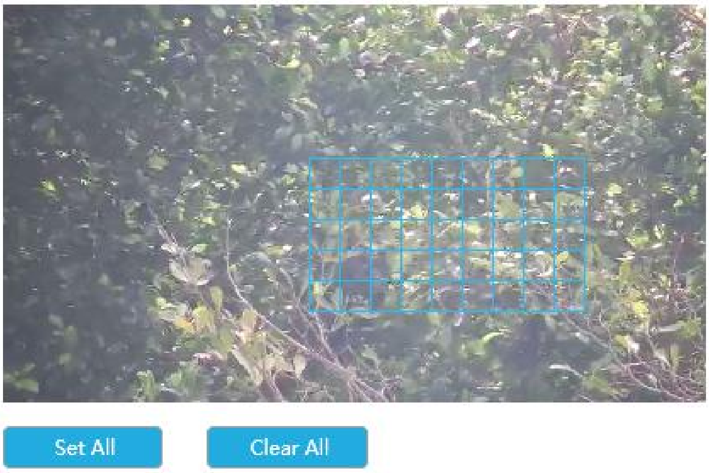
Sensitivity: 5

Effective Time

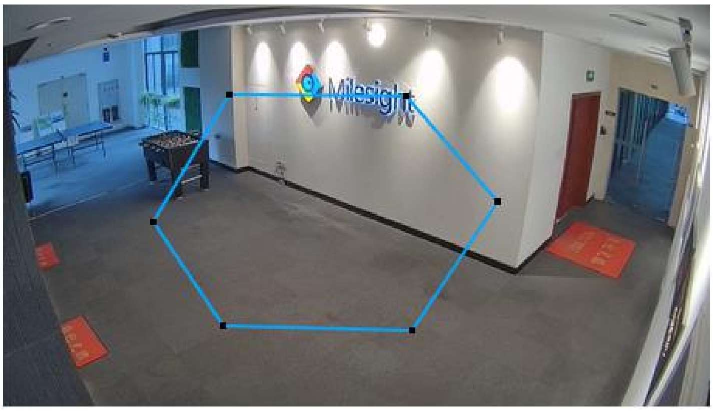
Action

Step 2. Set detection region.

You can select an area by dragging the mouse to set the trigger area, and this area will be synchronized to camera. Also, you can set or clear all set region by directly clicking Set All and Clear All.



For cameras with the firmware version higher than 4X.7.0.78, it supports drawing polygon detection region for VCA function.



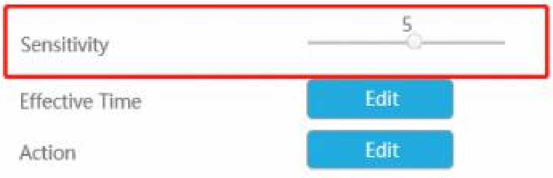
Step 3. Set Min. Time.

After setting minimum time from 3s to 1800s, any objects are left in the selected area or removed from the selected area over the minimum time will trigger the alarm.

Min. Time(10~1800s) 20

Step 4. Set Sensitivity.

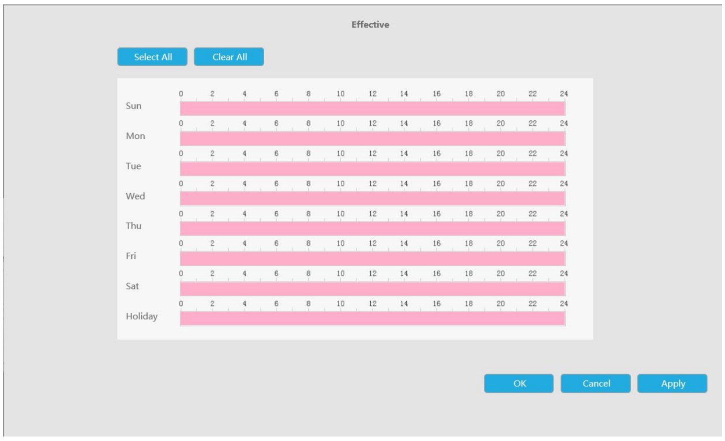
The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.



Sensitivity 5

Step 5. Set Effective Time of object left/removed 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 6. Set Action for object left/removed alarm by clicking Edit**.**

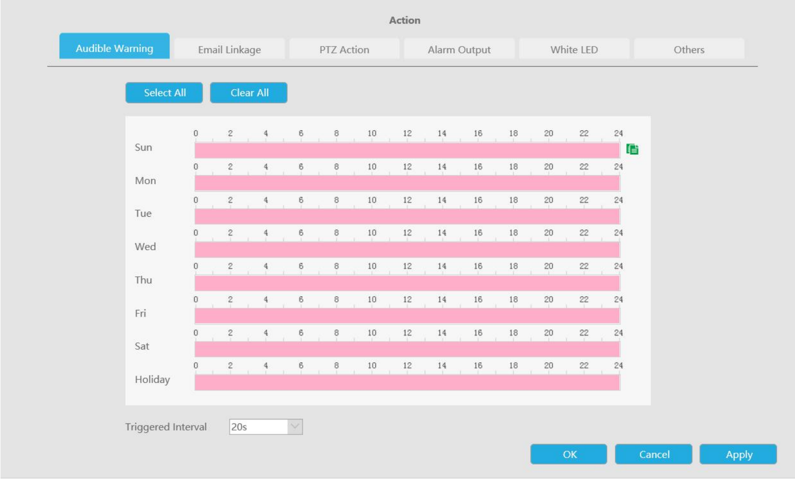
Audible Warning: NVR will trigger an audible beep when motion is detected.

Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

Click 📋 to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

Email Linkage: NVR will send an email to the address you set before.

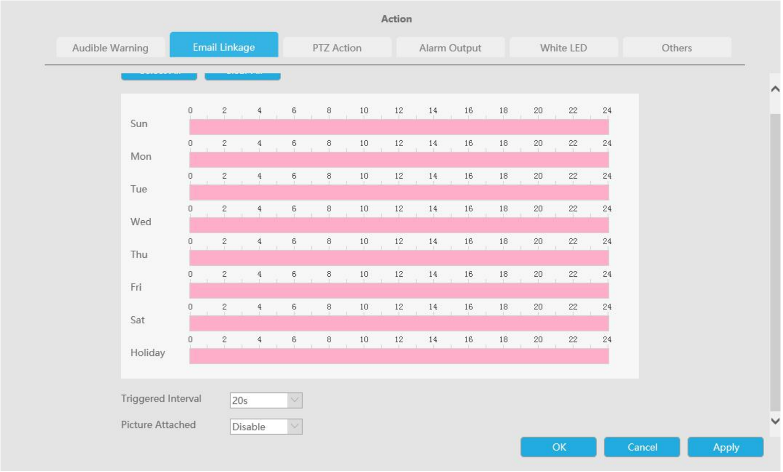
Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

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.



Triggered Interval 20s

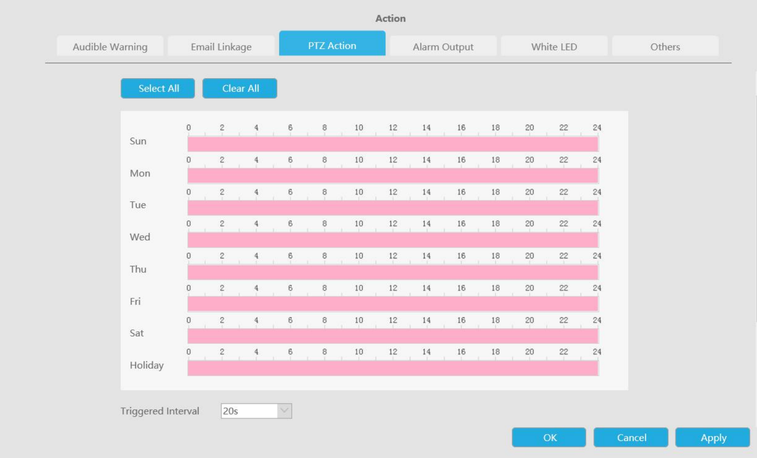
Picture Attached Disable

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.

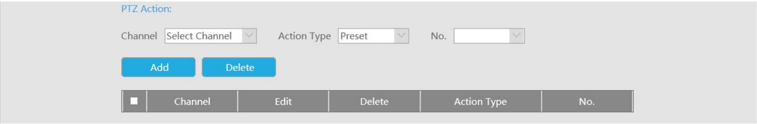
Click 📋 to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

And you can add PTZ Action.



Channel: Select Channel
Action Type: Preset
No.:

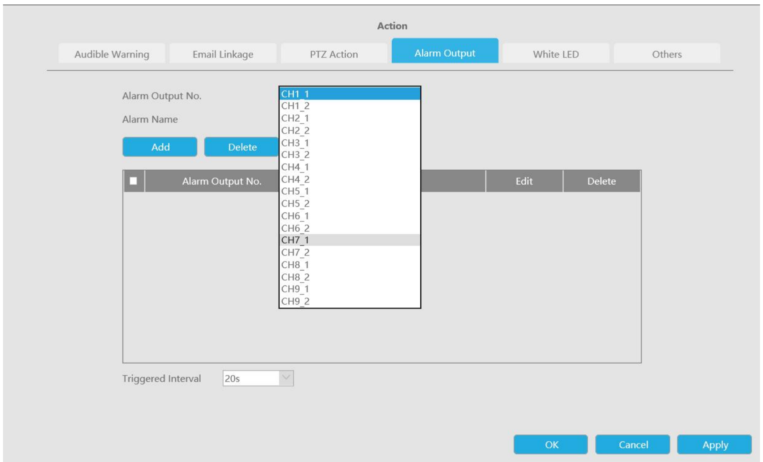
Channel: Select the channel which supports this function.

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.



Triggered Interval 20s

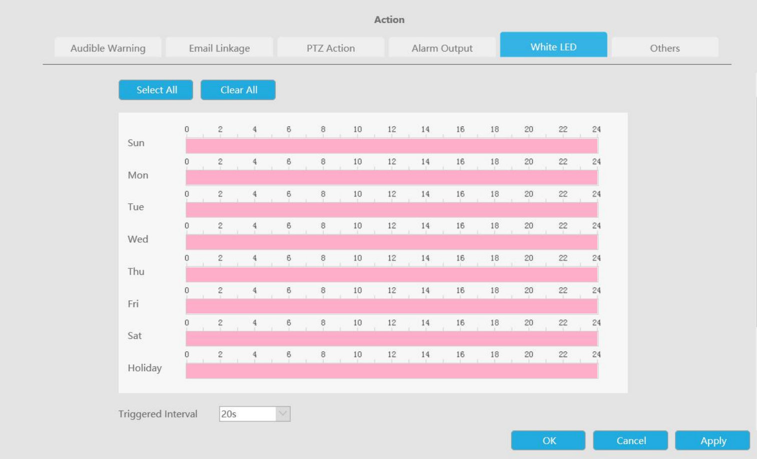
White LED: Trigger White LED flashing when alarm is triggered.

Drag a line on the time table for time setting. It will be more convenient by clicking Select All or Clear All to set or clear all time settings.

Moreover, you can click time bar to edit the time accurately.

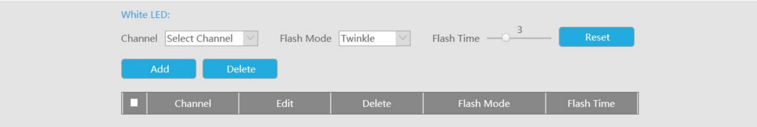
Click to copy time setting to other day.

Triggered Interval: The effective interval between two actions when event triggered.



Triggered Interval 20s

And you can add White LED.



Channel Select Channel

Flash Mode Twinkle

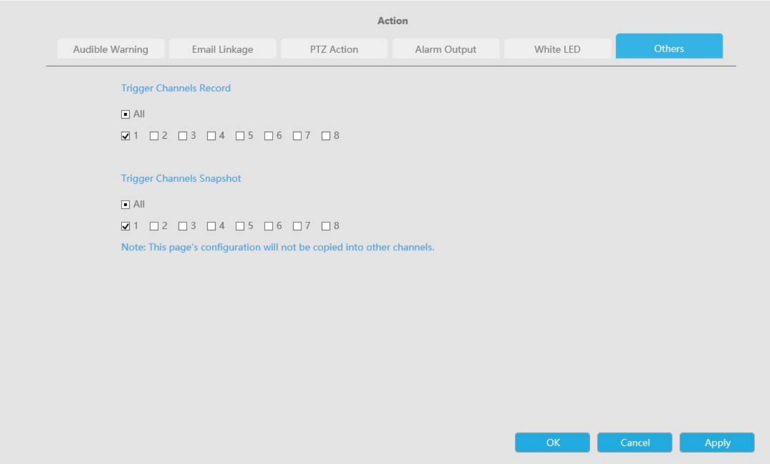
Flash Time 3

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.



Trigger Channels Record

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

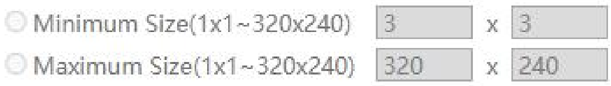
Trigger Channels Snapshot

☐ All

☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

Note: This page's configuration will not be copied into other channels.

Step 7. 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 Object Left/Removed will take effect.

Maximum Size: The Max. Size means the opposite, only if the object size is smaller than the frame you drew on the screen, the settings for Object Left/Removed will take effect.

Settings

Milesight VCA provides the primary setting for the whole VCA functions.

Process FPS: Five different periods are available(5, 10, 15, 20, 25 fps) for process fps.

Camera Installation: Select camera installation view, including **Angle View, Horizontal View and Overhead View**

Detection Object Size Settings: Edit the frame size you draw to trigger events. You can set Min. Size and Max. Size for different events.

Minimum Size: The Min. Size means that only if the object size is bigger than the frame, the settings for other VCA functions will take effect.

Maximum Size: The Max. Size means the opposite, the frame you draw on the screen stands for that only if the object size is smaller than the frame, the settings for other VCA functions will take effect.

Note:

For cameras with the firmware version higher than 4X.7.0.78 and NVRs with the firmware version higher than 7X.9.0.12, Settings tab is no longer displayed separately.

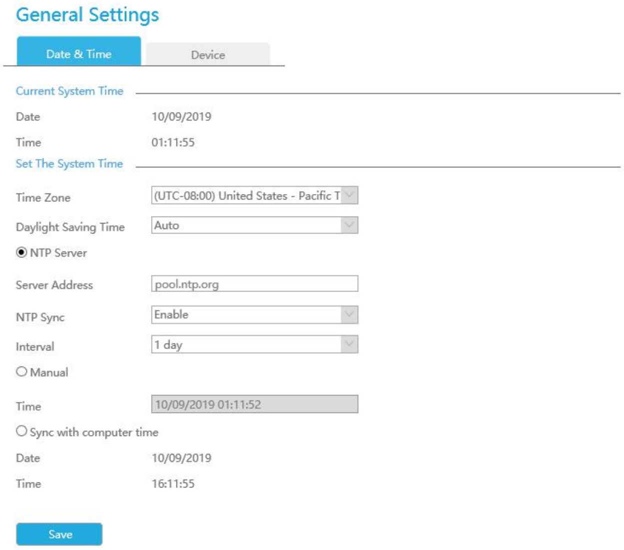
4.8.5 System

4.8.5.1 General Settings

To setup the general parameters of NVR, including modify the Device Name, Boot Wizard, set system time manually and auto logout, etc.

Date & Time

It is for setting up the Time parameters of NVR, including Time Zone, Daylight Saving Time, Server Address, NTP Sync, the interval for synchronizing with NTP server, Sync with computer time, etc.



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

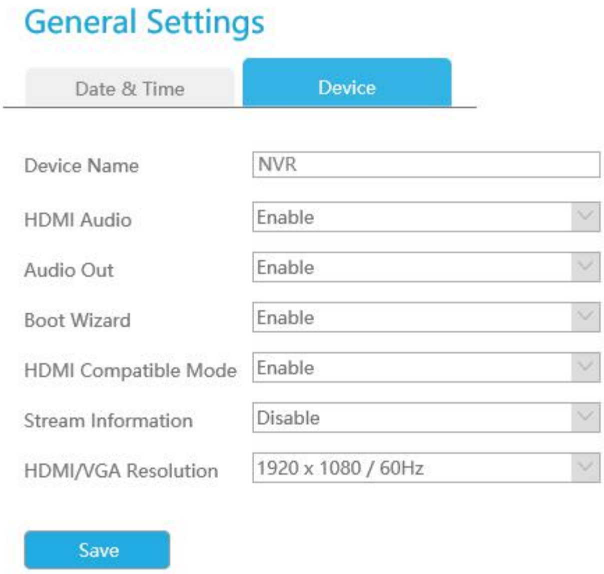
○ Sync with computer time

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

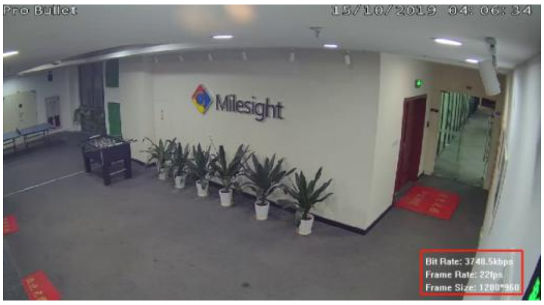
Device Name	NVR
HDMI Audio	Enable
Audio Out	Enable
Boot Wizard	Enable
HDMI Compatible Mode	Enable
Stream Information	Disable
HDMI/VGA Resolution	1920 x 1080 / 60Hz

Save

Audio Out: This option will be hidden if NVR does not have Audio Out function.

Boot Wizard: Enable it to pop up boot wizard after rebooting.

Stream Information: Enable it to see bit rate, frame rate and frame size in both live view and playback interface.



Note:

1. For some models, the stream information will reveal synchronously while transcoding is enabled.
2. Channels that play H.265 in plugin-free mode will not display the stream information.

4.8.5.2 Network

4.8.5.2.1 Basic

Working Mode

It supports three working modes of Multi-address, Load Balance and Net Fault-tolerance.

For Multi-address mode, you can set LAN1 or LAN2 as the default route according to the needs.

Note:

Only Pro NVR 7000 Series and Pro NVR 8000 Series support this function.

The system supports two IP address format: IPv4 and IPv6

IPv4

Enable IPv4 DHCP to auto search IP. When enable DHCP function, you can not modify IP/ Subnet mask/ Gateway.

Disable IPv4 DHCP to modify IP/ Subnet mask/ Gateway manually.

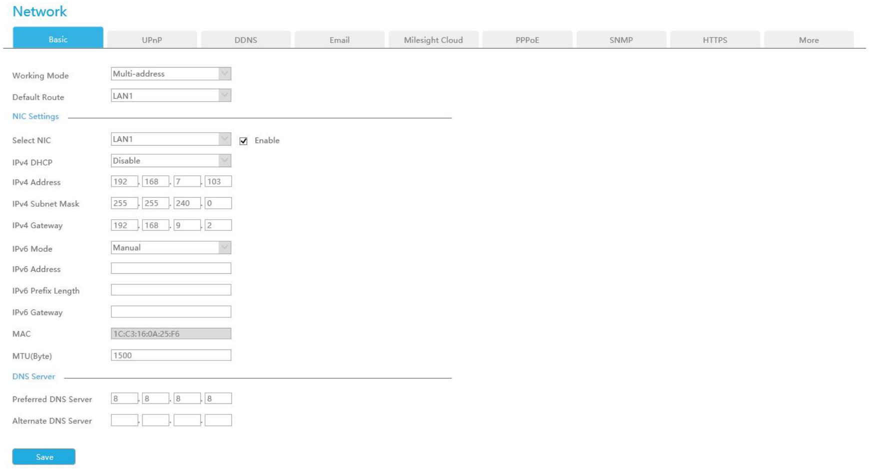
IPv6

Manual/ Router Advertisement/ DHCPv6 are available.

DNS Server

Preferred DNS Server: DNS server IP address.

Alternate DNS Server: DNS server alternate address.



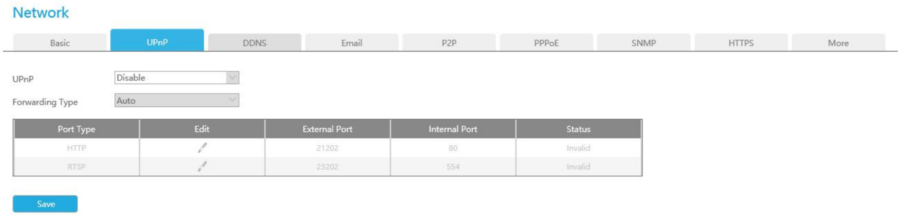
Working Mode: Multi-address
Default Route: LAN1
NIC Settings
Select NIC: LAN1 ☑ Enable
IPv4 DHCP: Disable
IPv4 Address: 192.168.7.103
IPv4 Subnet Mask: 255.255.240.0
IPv4 Gateway: 192.168.9.2
IPv6 Mode: Manual
IPv6 Address:
IPv6 Prefix Length:
IPv6 Gateway:
MAC: 1C:C3:16:0A:25:F6
MTU(Byte): 1500
DNS Server
Preferred DNS Server: 8.8.8.8
Alternate DNS Server:

Note:

1. Check the DHCP check-box when there is a DHCP server running in the networks.
2. Once DHCP is enabled, DNS will change accordingly.
3. The valid range of MTU is 1200~1500.
4. Do not input an IP address conflicting with another device.

4.8.5.2.2 UPnP

With the function enabled, you don't need to configure the port mapping for each port in router, it will do the port mapping in router automatically once **router supports UPnP**.



UPnP: Disable
Forwarding Type: Auto

Port Type	Edit	External Port	Internal Port	Status
HTTP	✎	21202	80	Invalid
RTSP	✎	23202	554	Invalid

4.8.5.2.3 DDNS

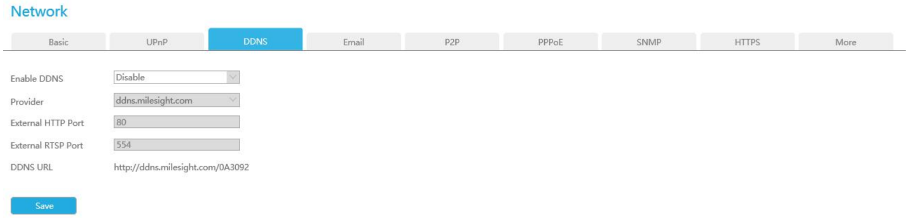
Using DDNS to solve the dynamic IP address problem.

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:

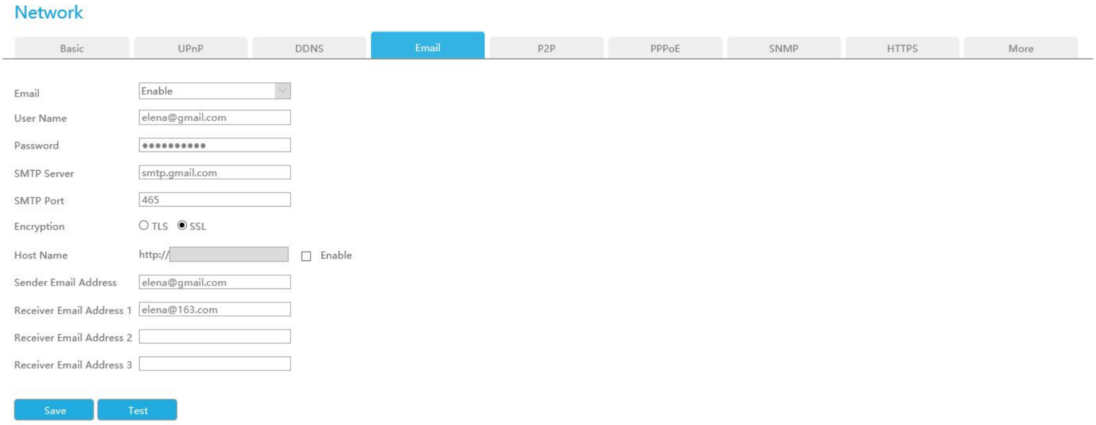
"Host Name" must begin with letters, and it can only contain number, letters, and hyphen.



Enable DDNS: Disable
Provider: ddns.milesight.com
External HTTP Port: 80
External RTSP Port: 554
DDNS URL: http://ddns.milesight.com/0A3092

4.8.5.2.4 Email

Email will send receivers a screenshot when the alarm is triggered.



Email: Enable
User Name: elena@gmail.com
Password: ●●●●●●●●●●
SMTP Server: smtp.gmail.com
SMTP Port: 465
Encryption: ○ TLS ● SSL
Host Name: http:// ☐ Enable
Sender Email Address: elena@gmail.com
Receiver Email Address 1: elena@163.com
Receiver Email Address 2:
Receiver Email Address 3:

Enable Email selection and then begin configuration.

User name: The E-mail address you choose to send emails. Please input **full email address** into it.
Password: The password of the E-mail.
SMTP Server: The SMTP Server of your E-mail.
SMTP Port: The port of SMTP Server, it's usually 25.
Encryption: Security Protocol of email sending, including TLS and SSL.
Host Name: It will be attached in the email.
Sender Email Address: It must be same with [User name].
Receiver Email Address: E-mail Address for the receivers.

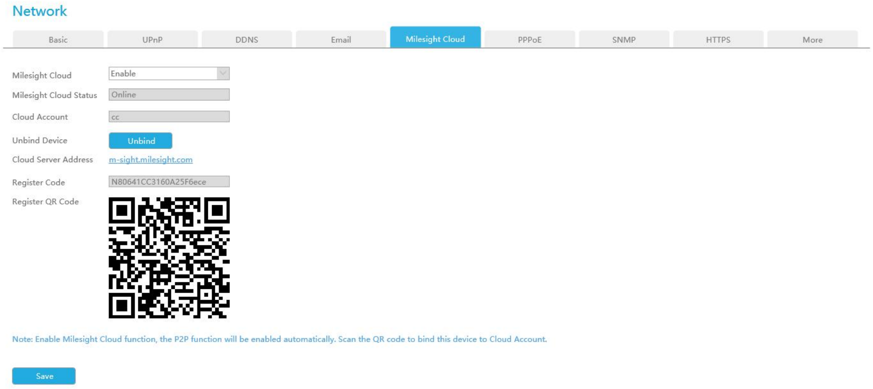
Select Test to check if the Mail function is workable.

Note:

If your NVR has a port forwarding IP for Host Name, please input the complete address that contains the port.

4.8.5.2.5 Milesight Cloud

You can add the devices to M-sight Pro app via Milesight Cloud, which can bind the devices with the cloud accounts. You can log into the cloud account directly on the APP, no need to add devices repeatedly.
Click "Enable" and "Apply" to enable Milesight Cloud.
After enabling, you can add the NVR on the APP M-Sight Pro for live view via scanning the QR code on Milesight Cloud page directly, or inputting the register code manually.



Milesight Cloud: Enable
Milesight Cloud Status: Online
Cloud Account: cc
Unbind Device
Cloud Server Address: m-sight.milesight.com
Register Code: N80641CC3160A25F6ece
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.

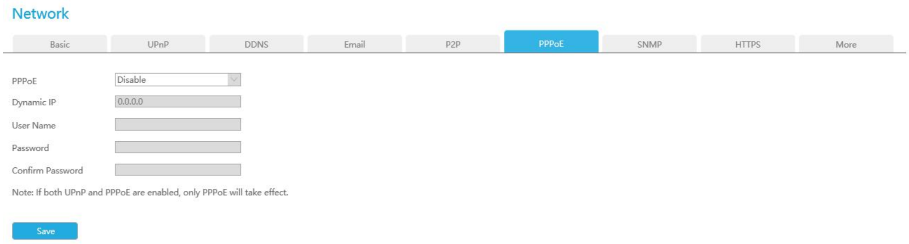
If you enable Milesight Cloud function, the P2P function will be enabled automatically.

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.



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.

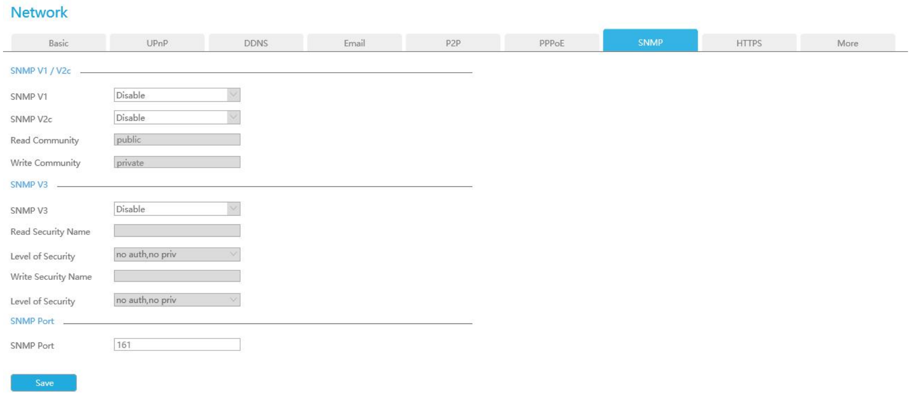
Note:

If both UPnP and PPPoE are enabled, only PPPoE will take effect.

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.



SNMP V1 / V2c
SNMP V1: Disable
SNMP V2c: Disable
Read Community: public
Write Community: private
SNMP V3
SNMP V3: Disable
Read Security Name
Level of Security: no auth,no priv
Write Security Name
Level of Security: no auth,no priv
SNMP Port
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)

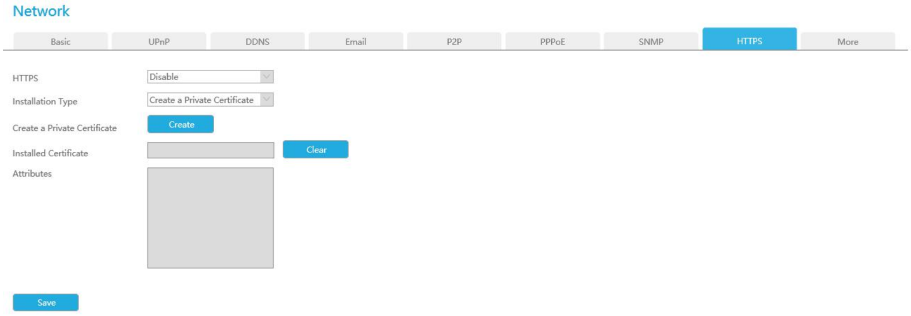
Write Security Name: Input the name of Write Security Community

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

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.

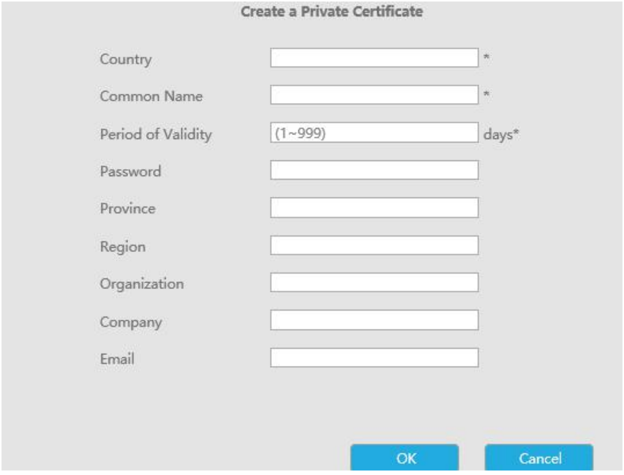


HTTPS: Disable
Installation Type: Create a Private Certificate
Create a Private Certificate
Installed Certificate
Attributes

There are three certificate installation types:

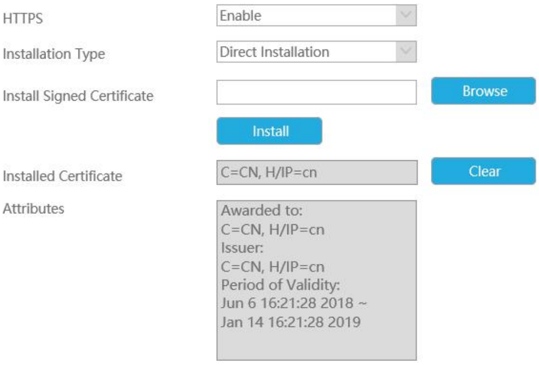
Create a Private Certificate

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.



Direct Installation

Click "Browse" to select a signed certificate locally and click "Install" to install it.



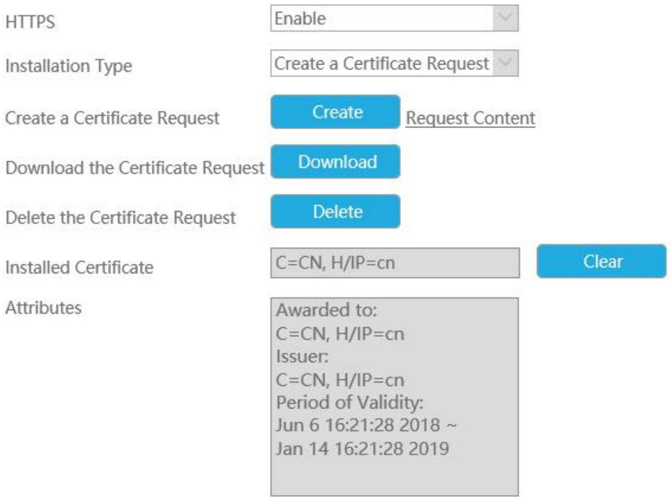
HTTPS: Enable
Installation Type: Direct Installation
Installed Certificate: C=CN, H/IP=cn
Attributes:
Awarded to:
C=CN, H/IP=cn
Issuer:
C=CN, H/IP=cn
Period of Validity:
Jun 6 16:21:28 2018 ~
Jan 14 16:21:28 2019

Create a Certificate Request

Firstly, click "Create" button. And then enter Country, Common Name and other information to create the certificate request;

Download the certificate request and submit it to the trusted certificate authority for signature;

After receiving the signed valid certificate, import the certificate to the device.


HTTPS: Enable

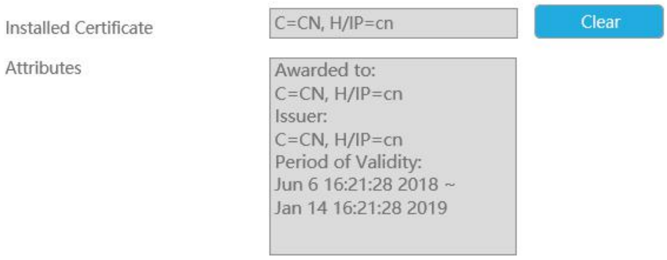
Installation Type: Create a Certificate Request

Installed Certificate: C=CN, H/IP=cn

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
Create
Request Content
Download the Certificate Request
Download
Delete the Certificate Request
Delete
Clear

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.

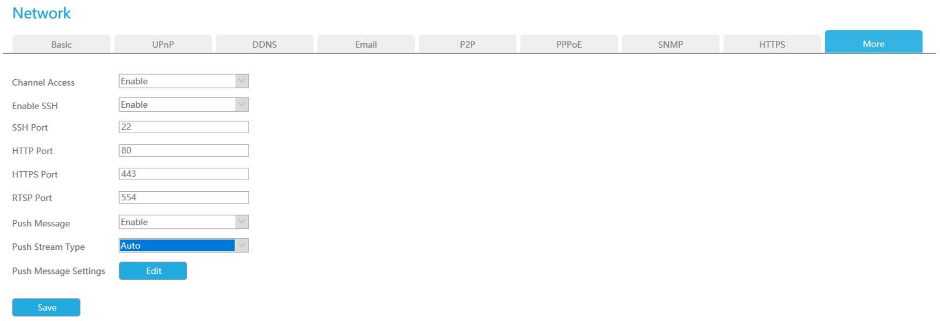

Installed Certificate: C=CN, H/IP=cn

Attributes:
Awarded to:
C=CN, H/IP=cn
Issuer:
C=CN, H/IP=cn
Period of Validity:
Jun 6 16:21:28 2018 ~
Jan 14 16:21:28 2019

Note:

The default HTTPS port is 443, you can modify it on the “More” interface.

4.8.5.2.9 More


Channel Access: Enable

Enable SSH: Enable

SSH Port: 22

HTTP Port: 80

HTTPS Port: 443

RTSP Port: 554

Push Message: Enable

Push Stream Type: Auto

Channel Access

With this option enabled, you can access PoE-connected cameras website directly in Camera

Management.

Enable SSH

Enable or disable SSH access. Secure Shell (SSH) has many functions; it can replace Telnet, and also provides a secure channel for FTP, POP, even for PPP.

SSH Port

The default SSH port is 22. Only for Milesight R&D debugging.

HTTP Port

The default HTTP port is 80. Please modify HTTP ports according to actual application.

Note:

1. The default HTTP port for IE browser is 80.
2. HTTP port is used for remote network access for 4k/H.265 NVR Series.

HTTPS Port

The default HTTPS port is 443. Please modify HTTPS ports according to actual application.

Note:

1. The default HTTPS port for IE browser is 443.
2. HTTPS port is used for remote network access for 4k/H.265 NVR Series.

RTSP Port

Real Time Streaming Protocol (RTSP) is an application layer protocol in TCP/IP protocol system. The default RTSP port is 554. Please modify RTSP port according to actual application.

Note:

1. RTSP port is used for remote network live view.
2. RTSP port valid range is 554 or 1024~65535.
3. The RTSP format of Milesight NVR is "rtsp://IP:RTSP port/ch_xxx".

① IP: The IP address of NVR;

② RTSP port: The default RTSP port is 554;

③ ch_xxx: The first number of xxx represents stream type, 1 for main stream and 4 for sub stream. The last two represents channel number, which start from '00' ('00' means channel 1). Take 'rtsp://192.168.8.179:554/ch_402' as an example:

The IP address of NVR is 192.168.8.179.

The RTSP port is 554.

The stream type is sub stream and the channel number is 3.

Push Message Enable

With this option enabled, you can receive the alarm message on the mobile application.

Push Video Stream

Select which video stream will be pushed to APP M-Sight Pro. Auto, Primary Stream and Secondary Stream are available.

Note:

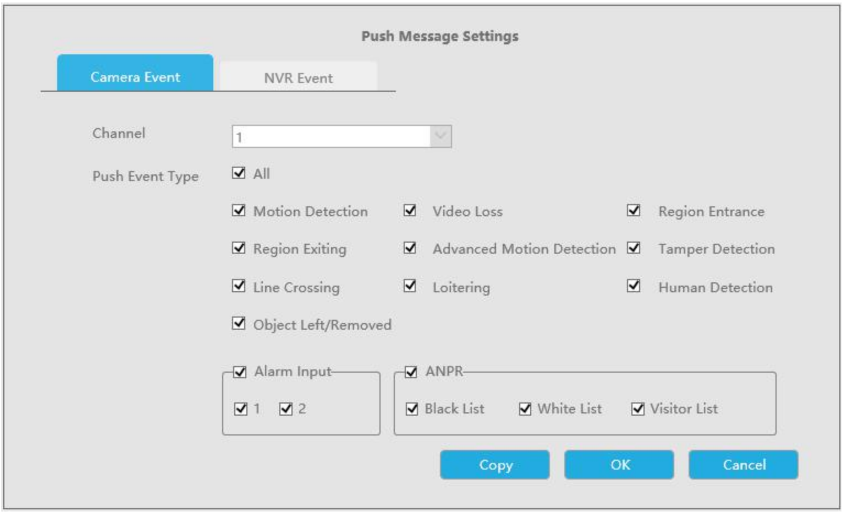
Only NVR model ends with letter T support.

Push Event Type

Click Edit to select which alarm type will be pushed to APP M-sight Pro. There are different Push Event Types for every channel to choose, which means every camera added in this NVR can choose what Event Type it wants to push, like Motion Detection, Video Loss, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering and Human Detection.

Push Message Settings

① **Camera Event**



Channel 1

Push Event Type ☑ All

☑ Motion Detection ☑ Video Loss ☑ Region Entrance

☑ Region Exiting ☑ Advanced Motion Detection ☑ Tamper Detection

☑ Line Crossing ☑ Loitering ☑ Human Detection

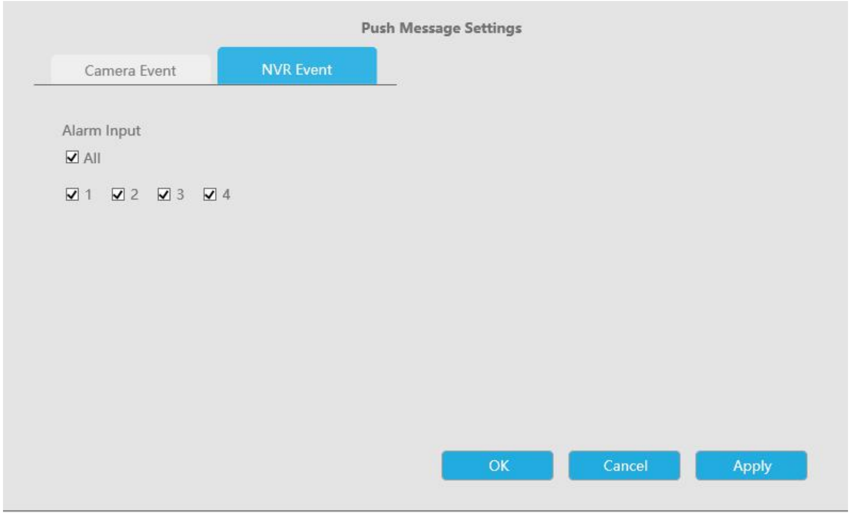
☑ Object Left/Removed

☑ Alarm Input: ☑ 1 ☑ 2

☑ ANPR: ☑ Black List ☑ White List ☑ Visitor List

Select Push Event Type which will be pushed to APP M-sight Pro. There are different Push Event Types for every channel to choose, which means every camera added in this NVR can choose what Event Type it wants to push, like Motion Detection, Video Loss, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering Human Detection, Object Left/Removed, Alarm Input and ANPR(Only for MS-NXXXX-XXT/H).

② **NVR Event**



Alarm Input

☑ All

☑ 1 ☑ 2 ☑ 3 ☑ 4

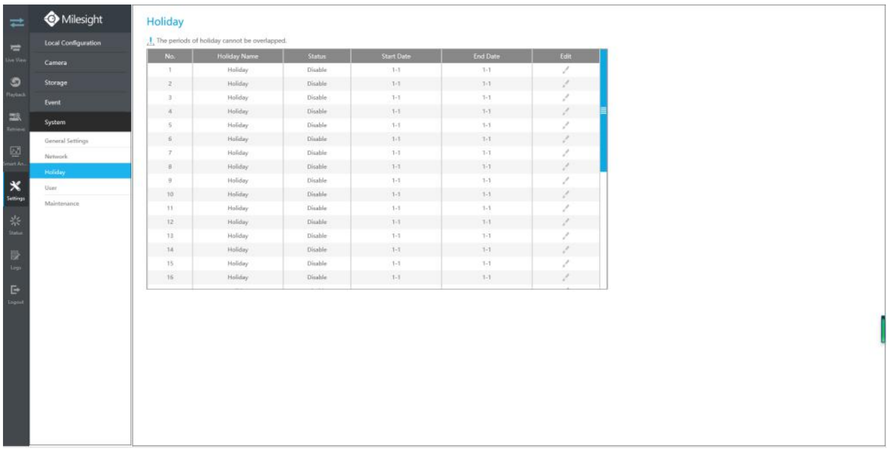
Select channels which you want to push the Alarm Input Event of NVR.

Note:

There would not have NVR Event interface if your NVR doesn’t have alarm input interface.

4.8.5.3 Holiday

It can configure the record or image capture schedule for holidays of the current year.

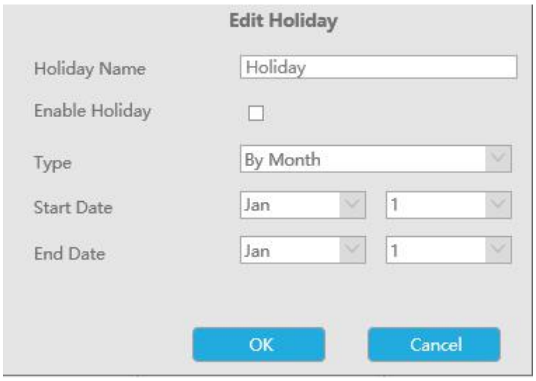


Holiday

The periods of holiday cannot be overlapped.

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	✎
16	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: Holiday

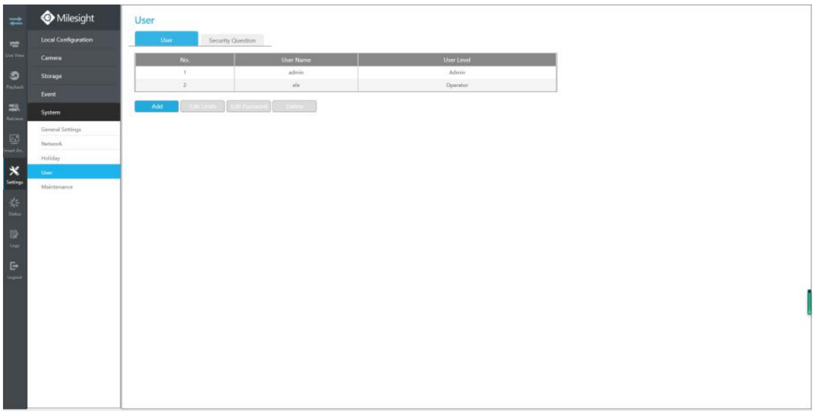
Enable Holiday ☐

Type: By Month

Start Date: Jan 1

End Date: Jan 1

4.8.5.4 User



User

No.	User Name	User Level
1	admin	Admin
2	ale	Operator

Note:

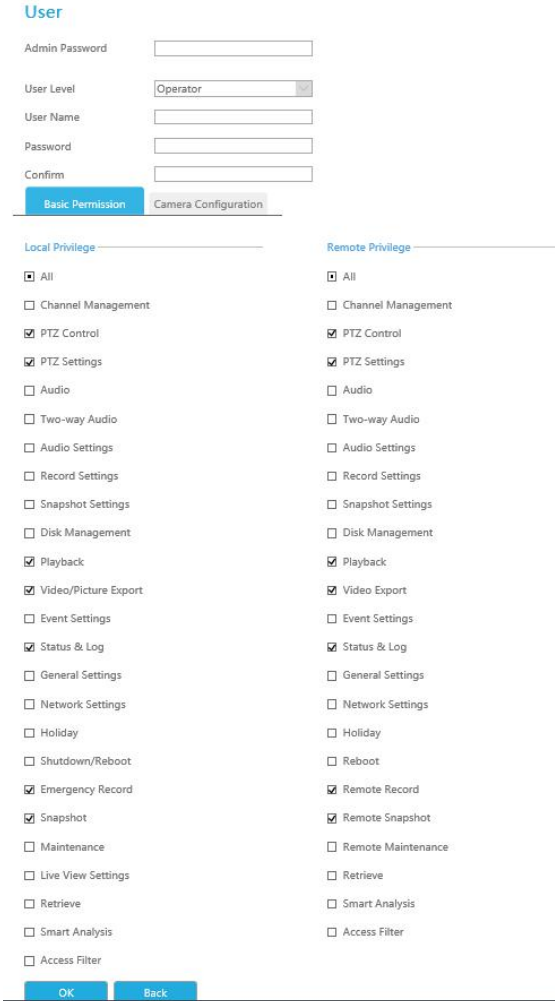
1. If the NVR firmware version is below xx.7.0.6, the default user name is "admin" and the

default password is “123456”.

2. If the NVR firmware version is between xx.7.0.6 and xx.9.0.3, the default user name is “admin” and the default password is “ms1234”.
3. If the NVR firmware version is xx.9.0.3 or above, please set the admin password before login.

Add a new user

Click Add to enter the user add interface, input information for the new user, select user level and set user privileges, then click OK to save settings.



User

Admin Password

User Level: Operator

User Name

Password

Confirm

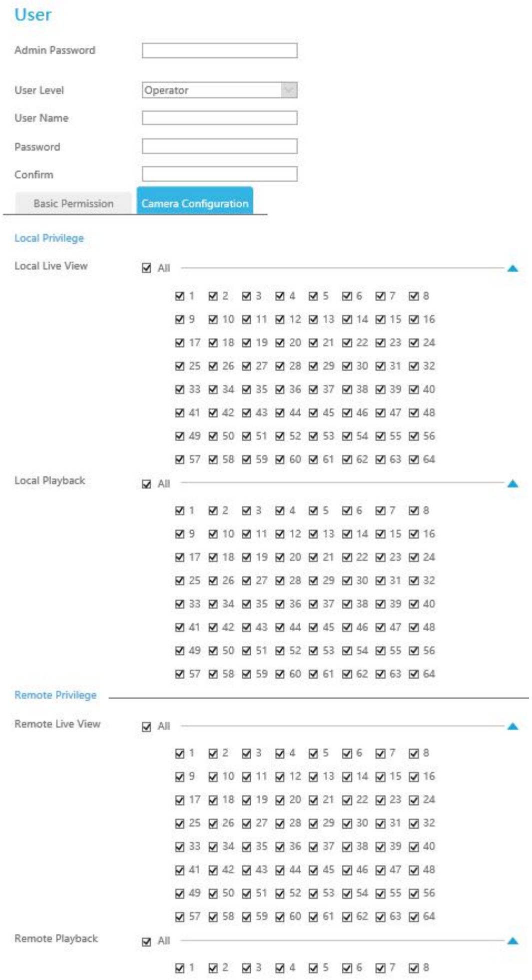
Basic Permission | Camera Configuration

Local Privilege

▣ All
☐ Channel Management
☑ PTZ Control
☑ PTZ Settings
☐ Audio
☐ Two-way Audio
☐ Audio Settings
☐ Record Settings
☐ Snapshot Settings
☐ Disk Management
☑ Playback
☑ Video/Picture Export
☐ Event Settings
☑ Status & Log
☐ General Settings
☐ Network Settings
☐ Holiday
☐ Shutdown/Reboot
☑ Emergency Record
☑ Snapshot
☐ Maintenance
☐ Live View Settings
☐ Retrieve
☐ Smart Analysis
☐ Access Filter

Remote Privilege

▣ All
☐ Channel Management
☑ PTZ Control
☑ PTZ Settings
☐ Audio
☐ Two-way Audio
☐ Audio Settings
☐ Record Settings
☐ Snapshot Settings
☐ Disk Management
☑ Playback
☑ Video Export
☐ Event Settings
☑ Status & Log
☐ General Settings
☐ Network Settings
☐ Holiday
☐ Reboot
☑ Remote Record
☑ Remote Snapshot
☐ Remote Maintenance
☐ Retrieve
☐ Smart Analysis
☐ Access Filter



User

Admin Password

User Level: Operator

User Name

Password

Confirm

Basic Permission | Camera Configuration

Local Privilege

Local Live View ☑ 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

Local Playback ☑ 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

Remote Privilege

Remote Live View ☑ 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

Remote Playback ☑ All
☑ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8

Note:

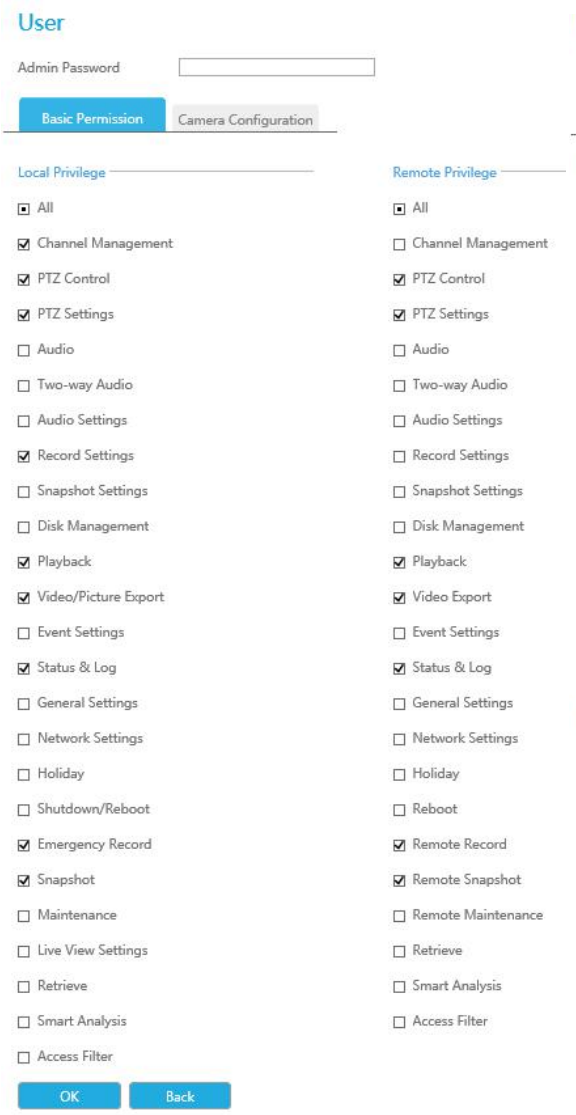
User name can only contain letters and number. There are two user levels with different authority: Operator and Viewer.

Edit user limits

Click a user, when the background color changes into blue, click Edit Limit to edit user privileges.

① Local Privilege means the privilege to the monitor connected with NVR.

② Remote Privilege means the privilege to web settings.



User

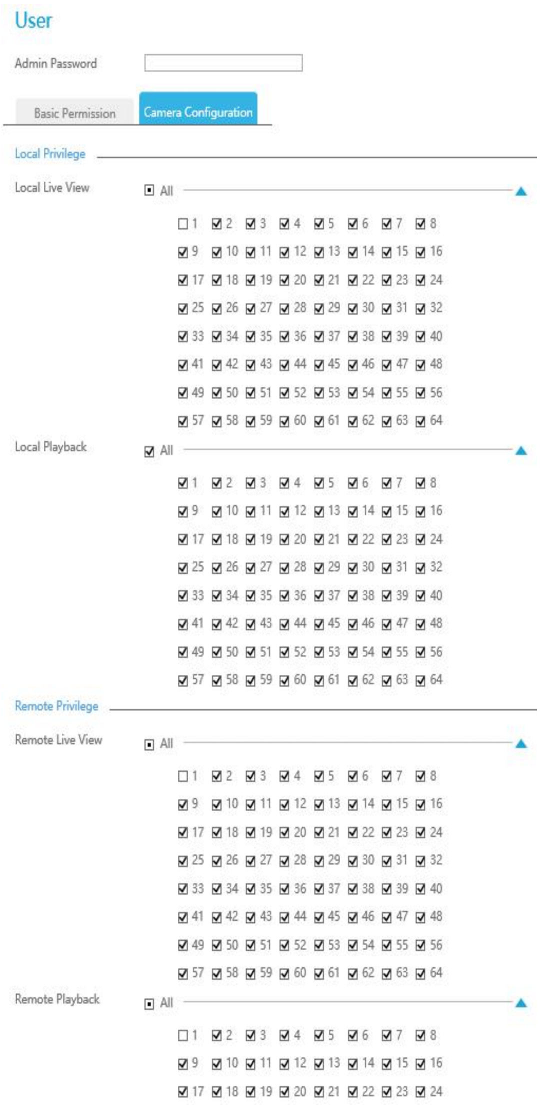
Admin Password

Local Privilege

▣ All
☑ Channel Management
☑ PTZ Control
☑ PTZ Settings
☐ Audio
☐ Two-way Audio
☐ Audio Settings
☑ Record Settings
☐ Snapshot Settings
☐ Disk Management
☑ Playback
☑ Video/Picture Export
☐ Event Settings
☑ Status & Log
☐ General Settings
☐ Network Settings
☐ Holiday
☐ Shutdown/Reboot
☑ Emergency Record
☑ Snapshot
☐ Maintenance
☐ Live View Settings
☐ Retrieve
☐ Smart Analysis
☐ Access Filter

Remote Privilege

▣ All
☐ Channel Management
☑ PTZ Control
☑ PTZ Settings
☐ Audio
☐ Two-way Audio
☐ Audio Settings
☐ Record Settings
☐ Snapshot Settings
☐ Disk Management
☑ Playback
☑ Video Export
☐ Event Settings
☑ Status & Log
☐ General Settings
☐ Network Settings
☐ Holiday
☐ Reboot
☑ Remote Record
☑ Remote Snapshot
☐ Remote Maintenance
☐ Retrieve
☐ Smart Analysis
☐ Access Filter



User

Admin Password

Local Privilege

Local Live View ▣ 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

Local Playback ☑ 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

Remote Privilege

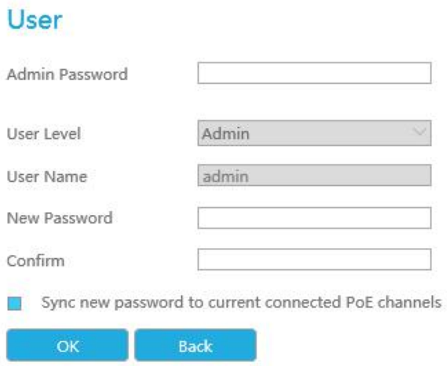
Remote Live View ▣ All
☐ 1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑ 8
☑ 9 ☑ 10 ☑ 11 ☑ 12 ☑ 13 ☑ 14 ☑ 15 ☑ 16
☑ 17 ☑ 18 ☑ 19 ☑ 20 ☑ 21 ☑ 22 ☑ 23 ☑ 24
☑ 25 ☑ 26 ☑ 27 ☑ 28 ☑ 29 ☑ 30 ☑ 31 ☑ 32
☑ 33 ☑ 34 ☑ 35 ☑ 36 ☑ 37 ☑ 38 ☑ 39 ☑ 40
☑ 41 ☑ 42 ☑ 43 ☑ 44 ☑ 45 ☑ 46 ☑ 47 ☑ 48
☑ 49 ☑ 50 ☑ 51 ☑ 52 ☑ 53 ☑ 54 ☑ 55 ☑ 56
☑ 57 ☑ 58 ☑ 59 ☑ 60 ☑ 61 ☑ 62 ☑ 63 ☑ 64

Remote Playback ▣ 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

Edit user password

Click Edit Password to modify password.

Sync new password to current connected PoE channels is available for PoE NVR Series.



User

Admin Password:

User Level: Admin

User Name: admin

New Password:

Confirm:

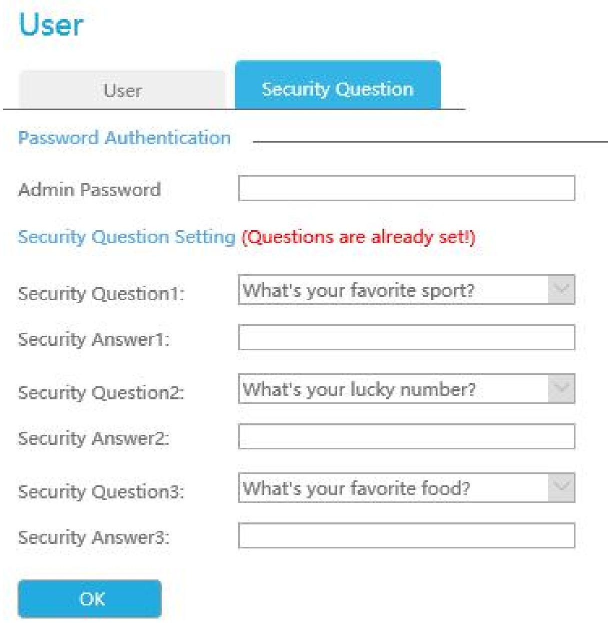
☐ Sync new password to current connected PoE channels

Delete user

Select a user and click Delete to delete a user.

Modify Security Question

Input Admin Password, select security question and answer. Click OK to save.



Password Authentication

Admin Password

Security Question Setting (Questions are already set!)

Security Question1: What's your favorite sport?

Security Answer1:

Security Question2: What's your lucky number?

Security Answer2:

Security Question3: What's your favorite food?

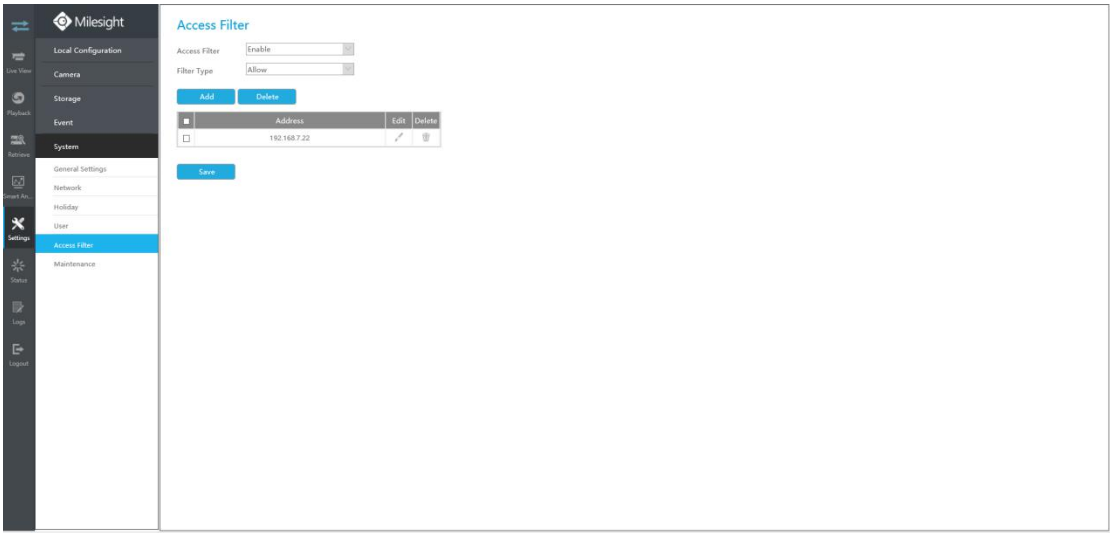
Security Answer3:

Note:

1. This option is available for the NVR firmware version xx.9.0.3 or above only.
2. Security question is used for resetting admin password if you forget current one.

4.8.5.5 Access Filter

Enable Access Filter to restrict or open the access to device address added via IP or MAC.

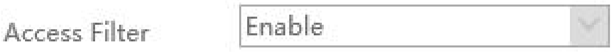


Access Filter: Enable

Filter Type: Allow

☐	Address	Edit	Delete
☐	192.168.7.22		

Step 1. Enable Access Filter.



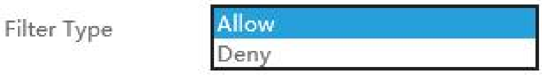
Access Filter: Enable

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.

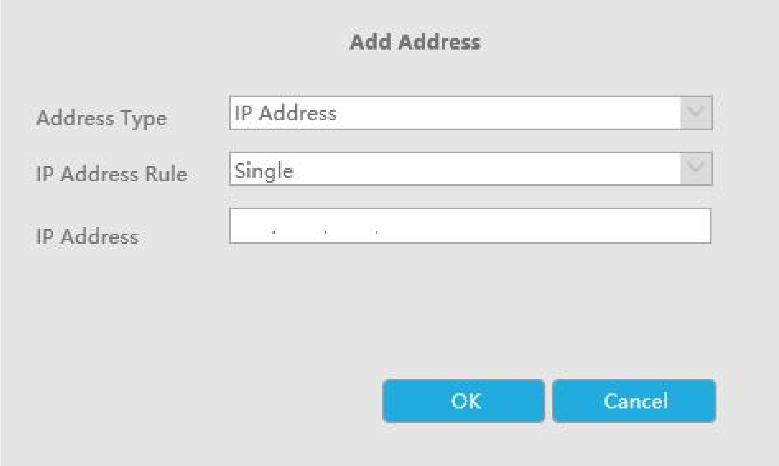


Filter Type: Allow / Deny

Step 3. Add Address.

Click Add 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.

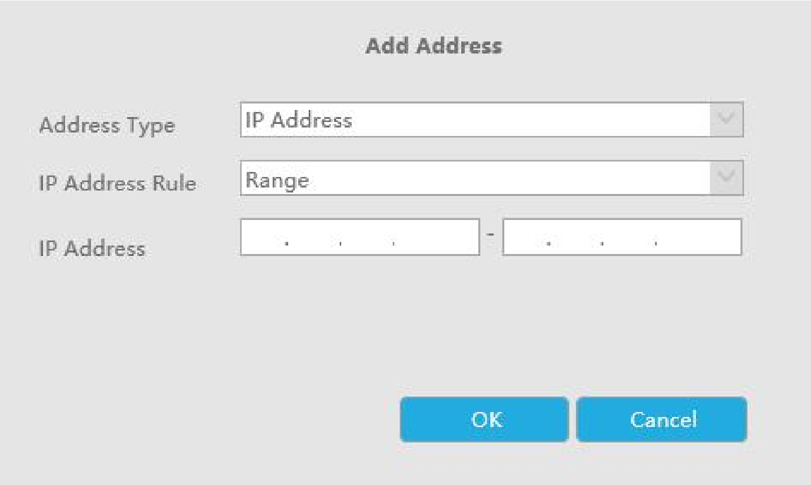


Add Address

Address Type: IP Address

IP Address Rule: Single

IP Address: . . .



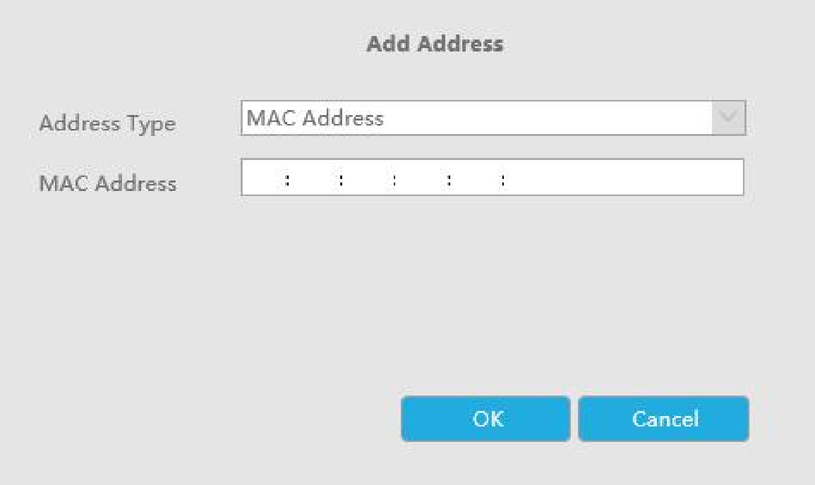
Add Address

Address Type: IP Address

IP Address Rule: Range

IP Address: . . . - . . .

Method 2: Add the address via MAC.



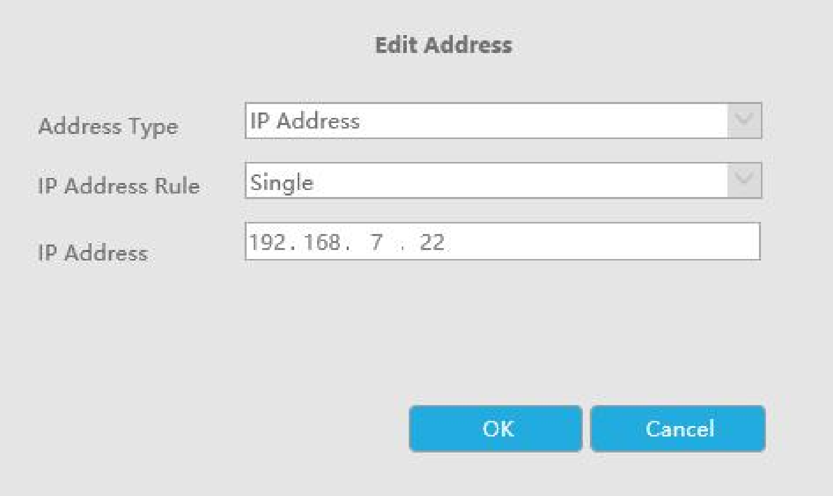
Add Address

Address Type: MAC Address

MAC Address: : : : : :

Step 4. Then click Save to make Access Filter effective.

You can click ✎ in the Access Filter interface to edit the corresponding address again.



Edit Address

Address Type: IP Address

IP Address Rule: Single

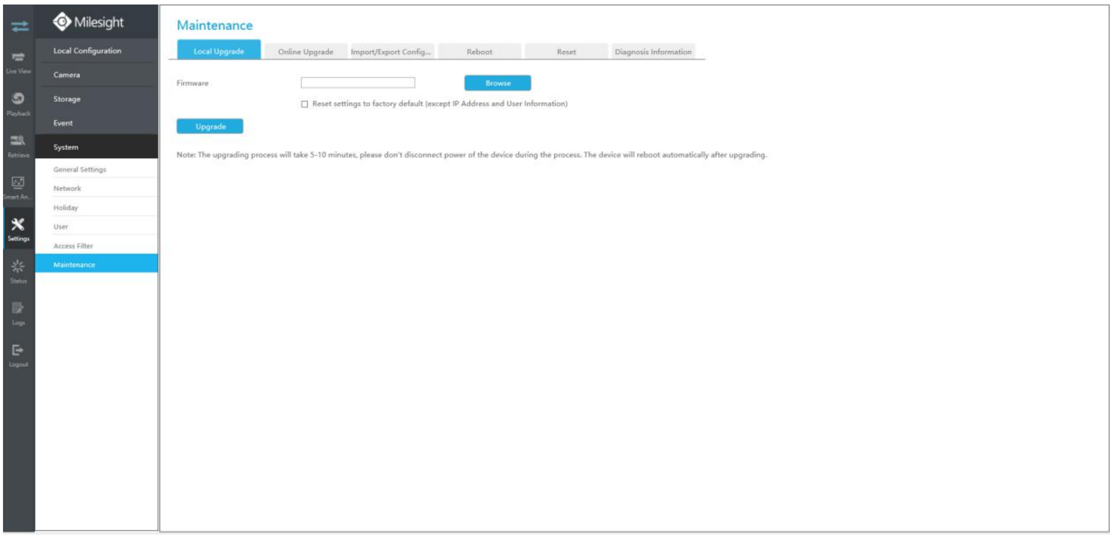
IP Address: 192.168.7.22

Note:

① If Access Filter is enabled and Filter type is Allow, but no address is added to the table, then no address is allowed to Access the NVR.

② If Access Filter is enabled and Filter type is Deny, but no address is added to the table, then all addresses are allowed to Access the NVR.

4.8.5.6 Maintenance



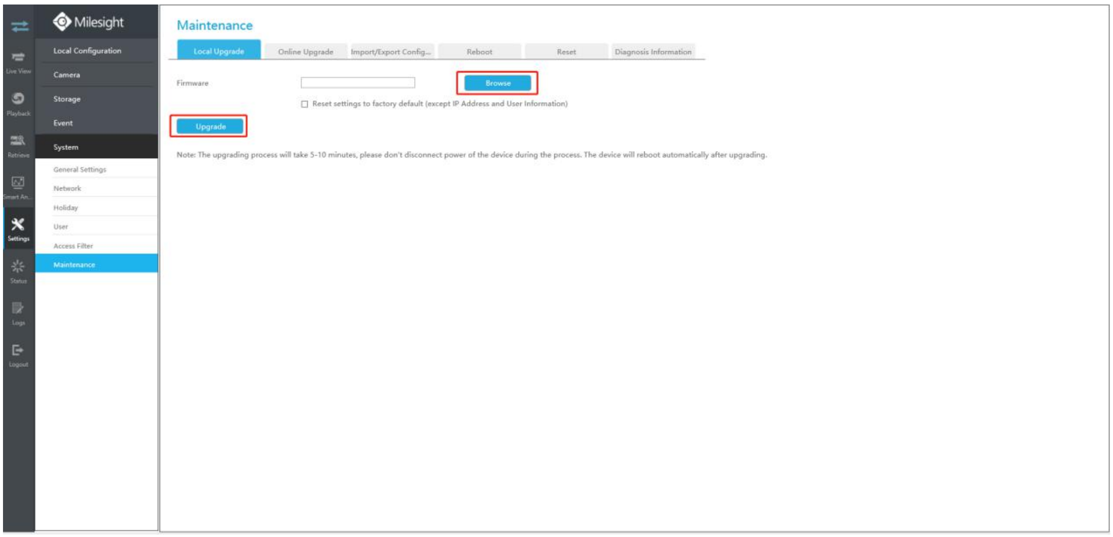
☐ Reset settings to factory default (except IP Address and User Information)

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.

Local Upgrade

Step1. Click Browse to select the firmware file, and you can check ☐ to reset configuration to factory defaults;

Step2. Click Upgrade to confirm the upgrade.



☐ Reset settings to factory default (except IP Address and User Information)

Note: The upgrading process will take 5-10 minutes, please don't disconnect power of the device during the process. The device will reboot automatically after upgrading.

Note:

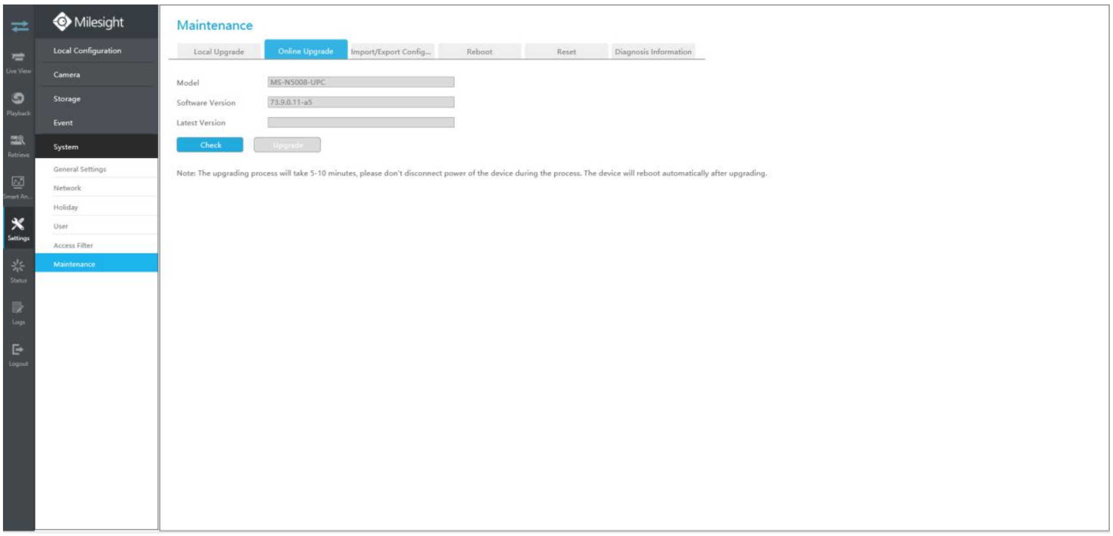
It will take 5 to 10 minutes to upgrade, please do not disconnect the device power during the process. The device will reboot automatically after upgrading.

Online Upgrade

Step1. Click Check to confirm whether there is a new version;

If there is a new version, the Latest Version column will display corresponding information.

Step2. Click Upgrade to confirm the upgrade.



Model: MS-N5008-UPC

Software Version: 73.9.0.11-a5

Latest Version:

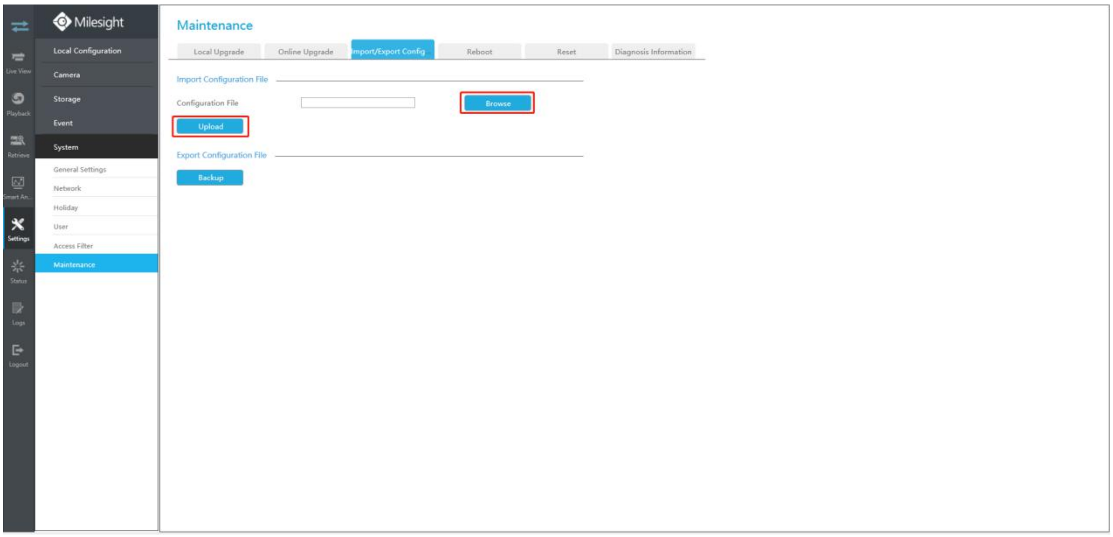
Note: The upgrading process will take 5-10 minutes, please don't disconnect power of the device during the process. The device will reboot automatically after upgrading.

Note:

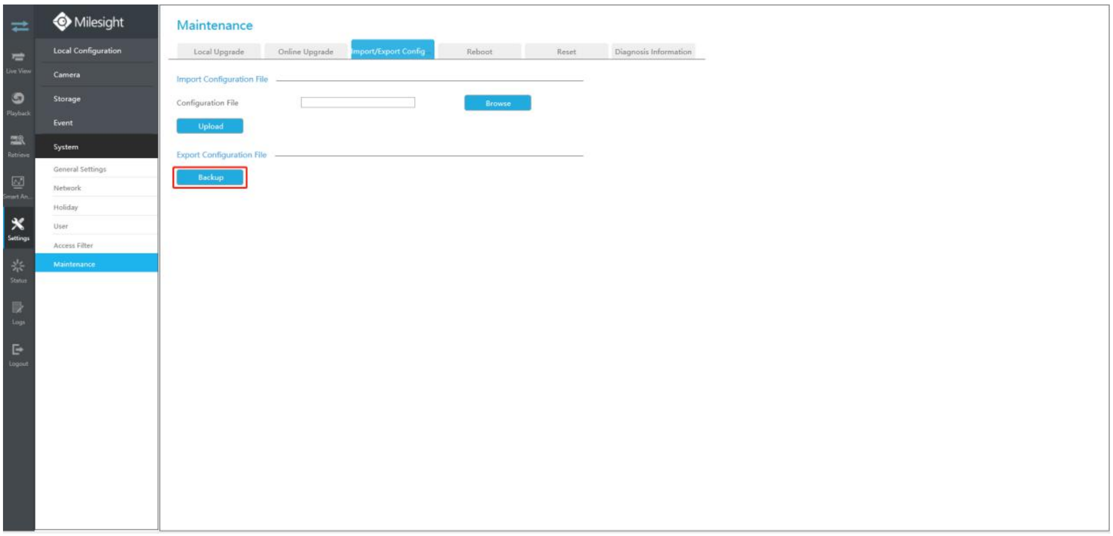
It will take 5 to 10 minutes to upgrade, please do not disconnect the device power during the process. The device will reboot automatically after upgrading.

Import/Export Configuration

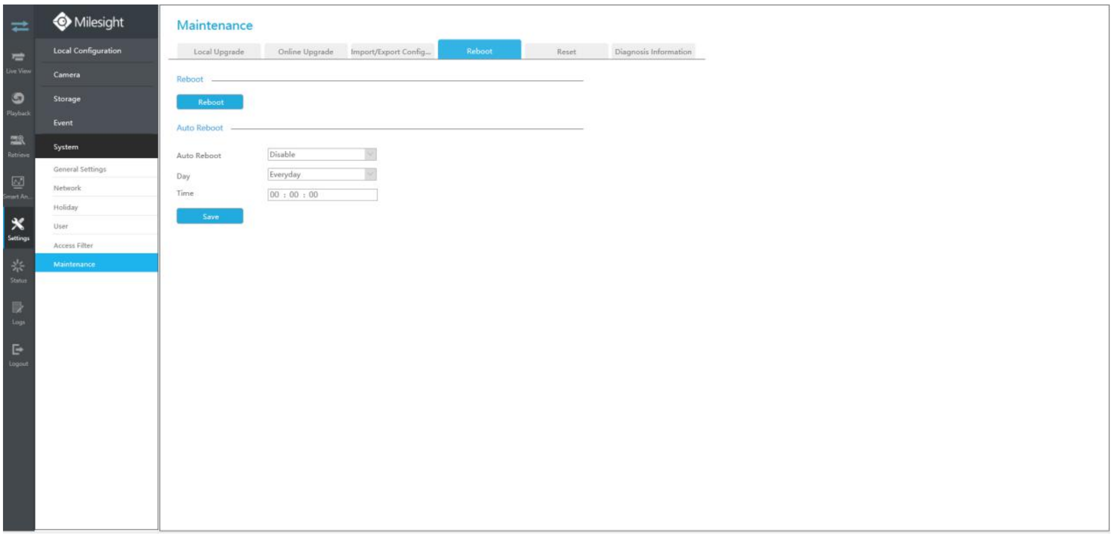
Import Configuration File: Click Browse to select one file and click Upload to import the NVR configuration.



Export Configuration File: Click Backup to backup current NVR settings.



Reboot



Auto Reboot: Disable
Day: Everyday
Time: 00 : 00 : 00

Reboot

Click Reboot to reboot the NVR.

Auto Reboot

You can set day and time for reboot, and **the NVR will reboot automatically at the time you set.**

Day: Everyday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.

Time: Adjustable range from 00:00:00 to 23:59:59.

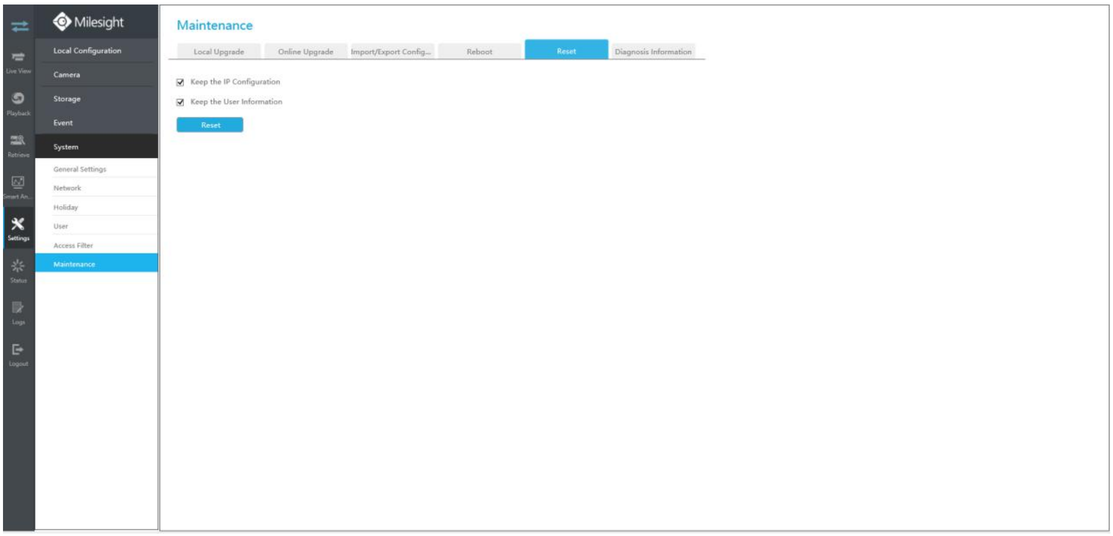
Note：

1. Some models support this function.
2. Auto Reboot can be enabled in User -> Edit Limit -> Remote Privilege.
3. The record will display in the log when Auto Reboot takes effect.
4. If a user without Auto Reboot permission logs in, the function will be hidden.

Reset

Click Reset to reset the NVR to factory defaults.

Keeping the IP parameters and Keeping the User information are available.

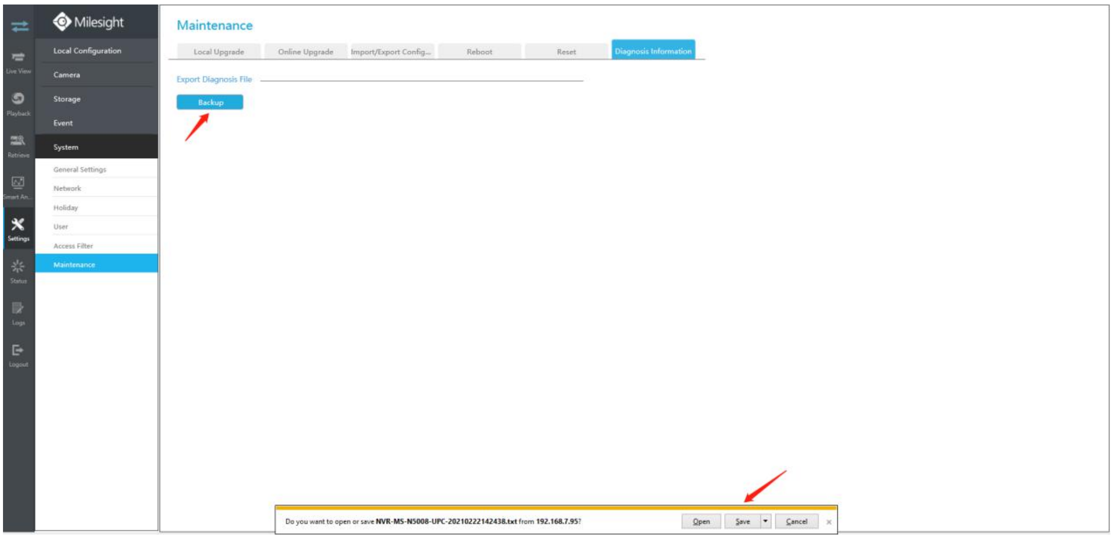


☑ Keep the IP Configuration

☑ Keep the User Information

Diagnosis Information

Click Backup and select the path to save the diagnosis file to export the diagnosis file.



Do you want to open or save **NVR-MS-N5008-UPC-20210222142438.txt** from **192.168.7.95**?

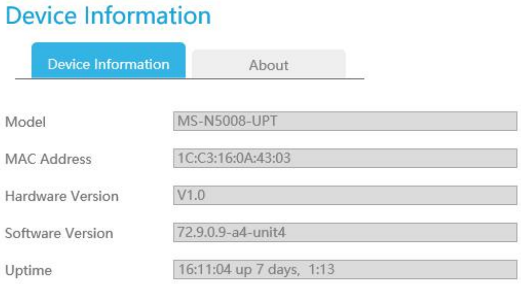
4.9 Status

You can have a quick view of the information of the device, network, camera, disk and event. This part is only for your rapid reference. If you want to make any configuration, please go to corresponding interfaces accordingly.

4.9.1 Device Information

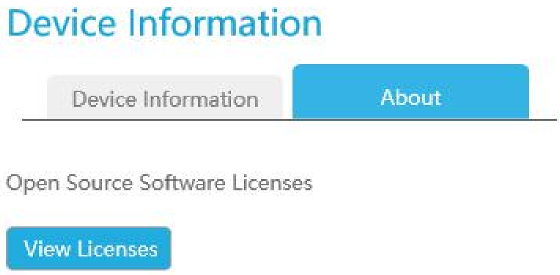
4.9.1.1 Device Information

Device information includes Model, MAC Address, Hardware Version, Software Version and Uptime.

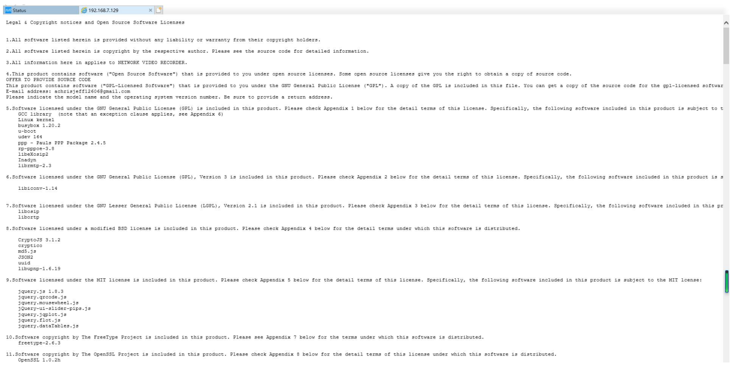


Model: MS-N5008-UPT
MAC Address: 1C:C3:16:0A:43:03
Hardware Version: V1.0
Software Version: 72.9.0.9-a4-unit4
Uptime: 16:11:04 up 7 days, 1:13

4.9.1.2 About



Click **View Licenses** to jump to the web link that shows the Open Source Software Licenses.



```
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E-mail address: achrisjeff12606@gmail.com
Please indicate the model name and the operating system version number. Be sure to provide a return address.

5.Software licensed under the GNU General Public License (GPL) is included in this product. Please check Appendix 1 below for the detail terms of this license. Specifically, the following software included in this product is subject to t
    GCC library  (note that an exception clause applies, see Appendix 6)
    Linux kernel
    busybox 1.20.2
    u-boot
    udev 164
    ppp - Pauls PPP Package 2.4.5
    rp-pppoe-3.8
    libeXosip2
    Inadyn
    librmtp-2.3

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    libosip
    libortp

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    CryptoJS 3.1.2
    cryptico
    md5.js
    JSON2
    uuid
    libupnp-1.6.19

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    jquery.js 1.8.3
    jquery.qrcode.js
    jquery.mousewheel.js
    jQuery-ui-slider-pips.js
    jquery.jqplot.js
    jquery.flot.js
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    OpenSSL 1.0.2h
```
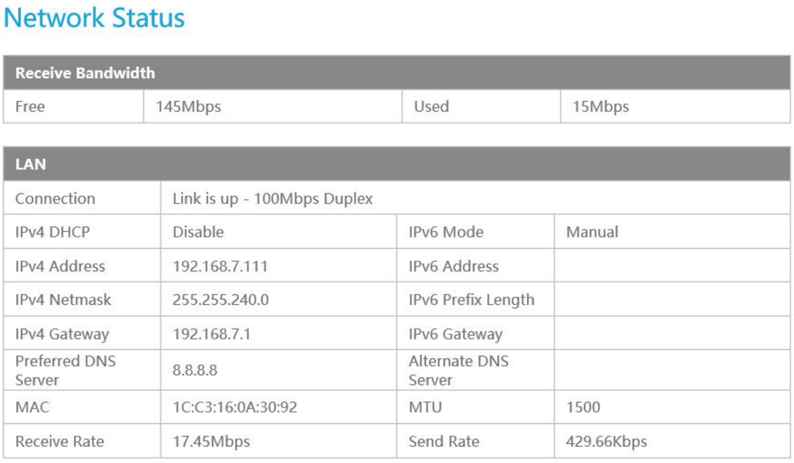

4.9.2 Network Status

Network Status includes three main parts: Receive Bandwidth, LAN.



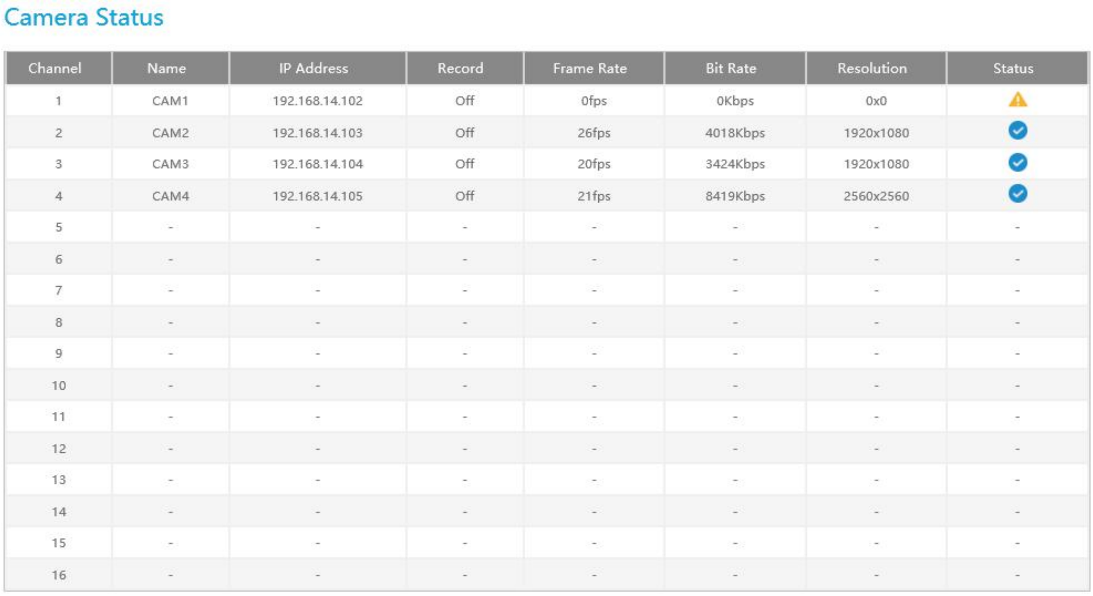
Network Status

Receive Bandwidth			
Free	145Mbps	Used	15Mbps

LAN			
Connection	Link is up - 100Mbps Duplex		
IPv4 DHCP	Disable	IPv6 Mode	Manual
IPv4 Address	192.168.7.111	IPv6 Address	
IPv4 Netmask	255.255.240.0	IPv6 Prefix Length	
IPv4 Gateway	192.168.7.1	IPv6 Gateway	
Preferred DNS Server	8.8.8.8	Alternate DNS Server	
MAC	1C:C3:16:0A:30:92	MTU	1500
Receive Rate	17.45Mbps	Send Rate	429.66Kbps

4.9.3 Camera Status

Camera status includes Channel, Name, IPv4 Address, Record, Frame Rate, Bit rate, Resolution and Status.

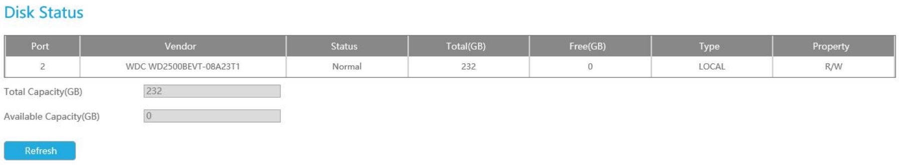


Camera Status

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

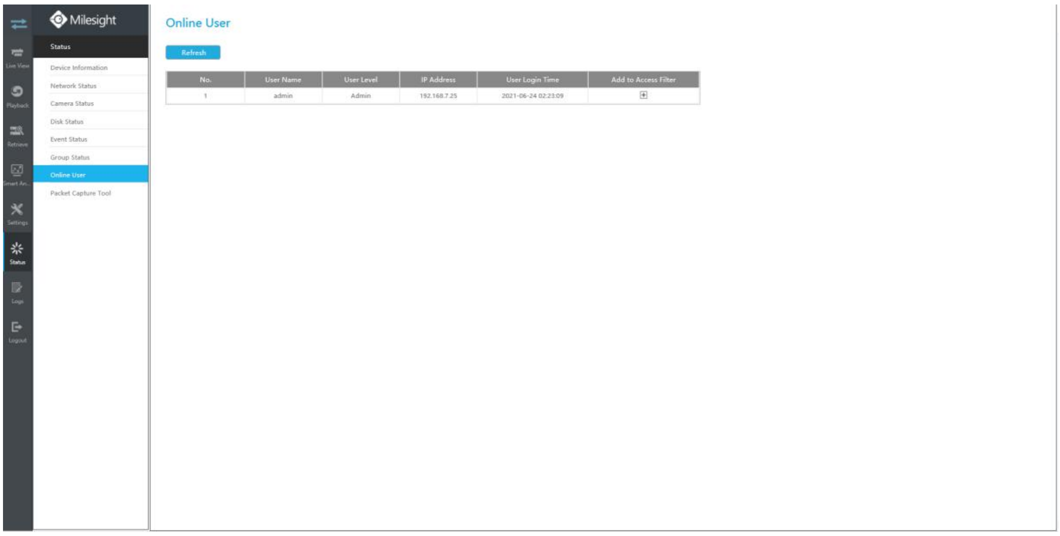
Port	Vendor	Status	Total(GB)	Free(GB)	Type	Property
2	WDC WD2500BEVT-08A23T1	Normal	232	0	LOCAL	R/W

Total Capacity(GB) 232

Available Capacity(GB) 0

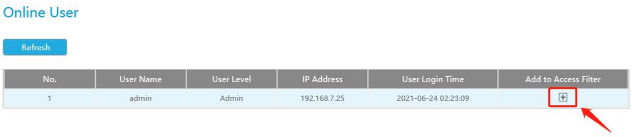
4.9.5 Online Users

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.

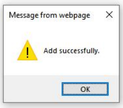

Online User

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	⊞

The IP address can be added to Access Filter interface from Online User interface directly.


Online User

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	⊞


Message from webpage

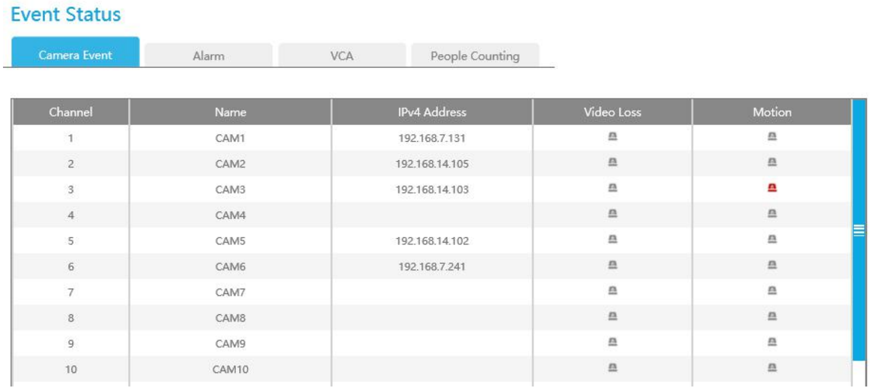
Add successfully.

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.

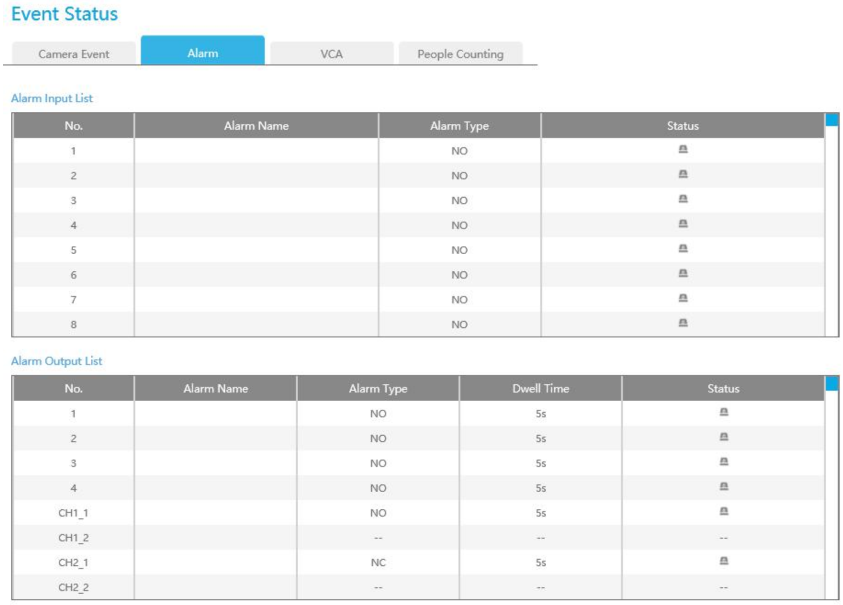


Event Status

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

Alarm Input List

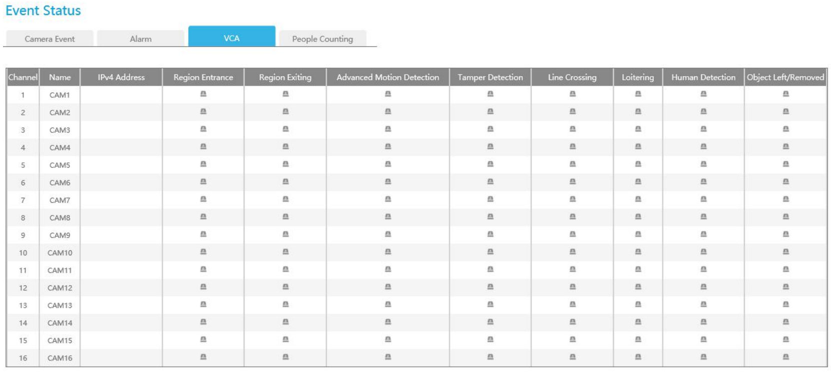
No.	Alarm Name	Alarm Type	Status
1		NO	○
2		NO	○
3		NO	○
4		NO	○
5		NO	○
6		NO	○
7		NO	○
8		NO	○

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.

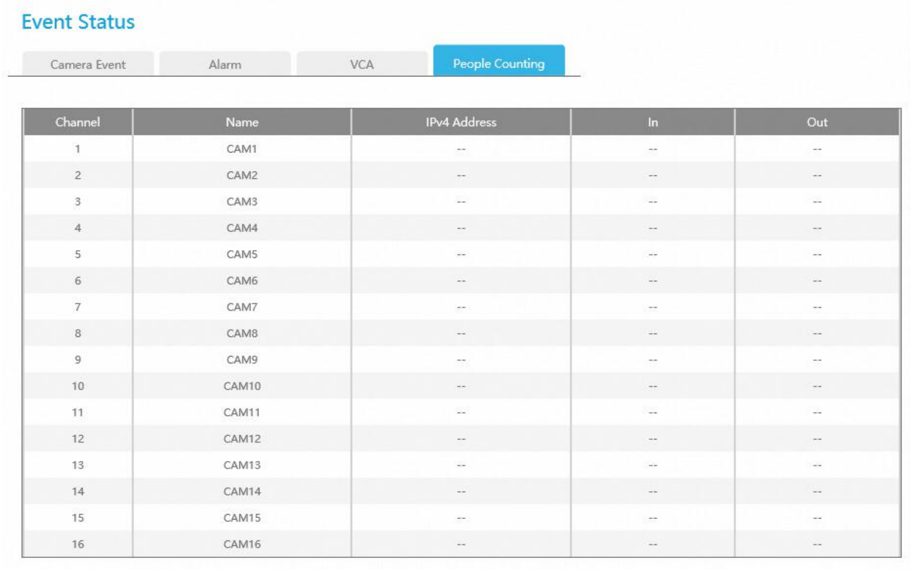


Event Status

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

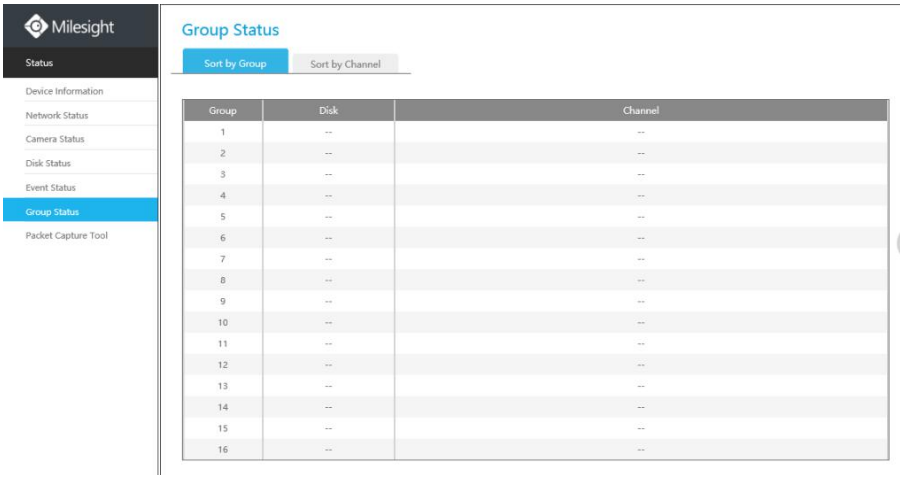
It shows every camera’s current In/Out number of people counting.



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

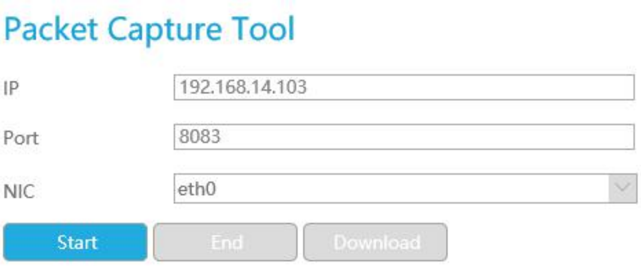
Check Group Status. The status of the all created Groups can be sorted by Group or Channel.



Group	Disk	Channel
1	--	--
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.



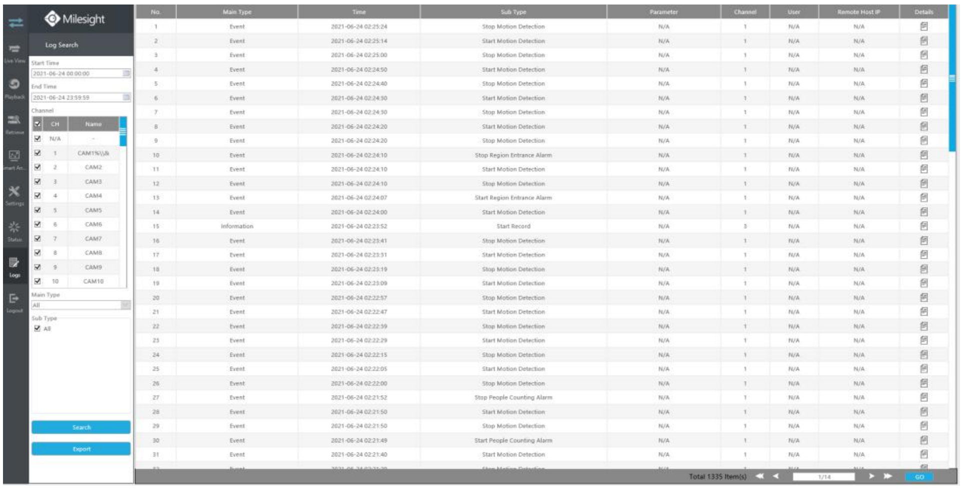
IP 192.168.14.103

Port 8083

NIC eth0

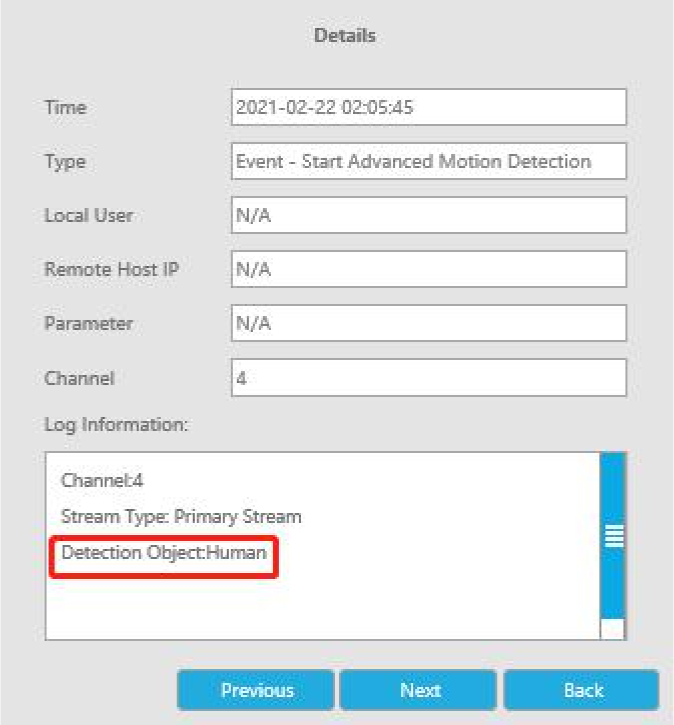
4.10 Logs

In Log interface, you can check, search and export logs. By selecting the Main Type , Sub Type, Channel, Start Time and End Time which can narrow down the scale of logs, you can search for logs that you need and then export them locally.



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



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:

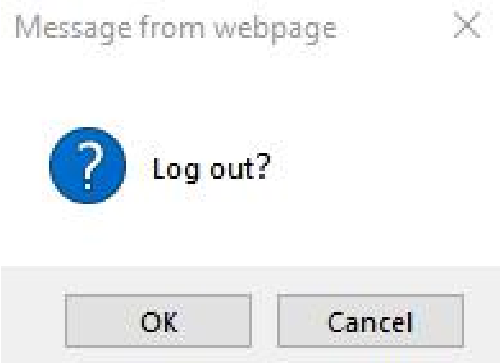
Channel:4

Stream Type: Primary Stream

Detection Object:Human

4.11 Logout

Click Logout to exit the current account.



Log out?

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: No.23 Wanghai Road,2nd Software Park, Xiamen, China

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Better Inside, More in Sight