



# Network Video Recorder User Manual

Web Settings

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# Chapter 1. Safety Regulatory

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

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

- 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 before installed.
- Do not touch components such as heat sinks, power regulators, and processors, which may be hot
- Source with DC/AC 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: Injury or equipment damage may be caused if any of these cautions are neglected.

- 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

# Chapter 2. Product Introduction

# 2.1 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.

# 2.2 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 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 motion detection and video loss alert.
- Support various PTZ protocols and PTZ operations such as preset, patrol, etc.
- 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.
- Support OSD title and date configuration.
- Support setting view to Original or Resize.
- Support playback on slave NVR when Milesight N+1 Hot Spare is enabled.
- 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.
- 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, and Object Left/Removed.
- 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.

• Support Smart Analysis, including ANPR, Face Detection, People Counting, Heat Map and POS.

## Network

- Built-in WEB Server.
- 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, 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.

### **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.

# Chapter 3. Web Settings



# 3.1 Overview

# 3.1.1 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 лате?
Answer2:	
Question3:	What's your father's name?
Answer3:	

# 3.1.2 Login

Step1: Select Language on the top-right of interface.

Step2: Input the user name, password and click "Login" button to log in to NVR web page.

### **E**Note:

- If the NVR firmware version is below xx.7.0.6, the default user name is "admin" and the default password is "123456".
- 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".
- If the NVR firmware version is xx.9.0.3 or above, please set the password before login.
- The account will be locked if the password is entered incorrectly for four times.
- If you forget the password, click Forget Password? to reset password (Only the NVR firmware version xx.9.0.3 or above supports this.).



Step3: The NVR Web page can be used with the most standard operating systems and browsers.

If the NVR version is V7x.9.0.4 or above, Plugin-Free Mode is supported on the NVR. You can preview the video on the browser without plugin. For Windows system, Plugin-Free mode is supported in Chrome/Firefox/Microsoft Edge browser. For MAC system, Plugin-Free mode is supported in Chrome/Firefox/Safari browser.

**Note:** 

- If the firmware version of NVR is below V7x.9.0.14, only H.264 video codec is supported on Plugin-Free Mode for NVR. For better user experience, we recommend that you set the "profile" option to "main" on the camera.
- If the firmware version of NVR is V7x.9.0.14 or above, H.265 video codec is supported on Plugin-Free Mode for NVR.
- 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.
- When you use plugin-free mode, it will display "Plugin-Free" mode in "Settings" "Local Configuration" interface.

# Local Configuration

Plugin Mode	Plugin-free	$\sim$
Primary Stream When Fullscreen		
Note: Plugin-Free mode only supports	H.264.	



If the NVR version is below V7x.9.0.4, the browser will prompt to install the plugin when first

logging in the device. You can click " Download the plugin for NVR " to download the plugin for NVR. Please click "Finish" and refresh the browser, then you will see the video.



**Note:** During installing the plugin, please keep the browsers close.

# 3.1.3 Menu



# Table 1.

Icons	Descriptions
11	Hide or show secondary menu
Live View	Live view
<b>S</b> Playback	Play back the video
Retrieve	Back Up Files
<u>ک</u> Smart An	Smart Analysis
Settings	Make settings for Camera, Record, Event and System

Icons	Descriptions
Status	Check Device Information, Network Status, Camera Status, Disk Status and Event Status
Logs	Check all operation logs
Logout	Log out NVR

# 3.2 Live View

# 3.2.1 Camera List

List and play added cameras on Camera List page.

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



Icons' descriptions of Live View **Table 2. Description of the buttons** 

Icons	Descriptions	Icons	Descriptions
▶	Play Primary Stream	►	Play Secondary Stream
	Save View	8	Play default view
K 7 K 2	Full screen		1 screen mode
E	4 screens mode		8 screens mode
Ħ	9 screens mode		16 screens mode
ŧ	Previous page	⇒	Next page
G	Stop all live view	¢	Start all live view
Ø	Digital Zoom	Ę	Display Settings of Event Detection Region
Ŷ	Two-way Audio	<b>◄</b> >)	Audio on
49	Audio off	Ċ2	Snapshot
Ď3	Snapshot		Record
~	Original Image	, <sup>K</sup>	Resize Image
0	Fisheye Client-side Dewarping	<b>A</b>	Camera Alarm Output

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: 10, 1P, 2P, 4R, 103R, 1P1R, 1P4R, 1P6R, and 108R.

Client-side	Dewarping	×
Enable Dev	warping	
$\odot$		
Installation	n Mode	
_	ı[	_
Display Mo	ode	
	$\leftrightarrow$	#
	•	
$\stackrel{\longleftrightarrow}{\blacksquare}$		•

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

### Two-way Audio

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

NVR · CAM1 · ·	Two-way A	udio	×			
CAM1 &	NVR	ł				
	CAM1	4	<u> </u>			

### **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.

**Table 3. Description of the buttons** 

Icons	Descriptions
	It indicates video loss
<b>-5</b>	It indicates motion detection alarm
0	It indicates VCA alarm

# *3.2.2 PTZ*

For PTZ cameras, you can operate PTZ, Preset, Patrol, Pattern, Lighting for 30s, Lens Initialization and Auxiliary Focus on PTZ page directly.





- 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.

# 3.2.3 Image Configuration

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



# 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.

Playback Type	
General Playback	
General Playback	
Event Playback	
Tag Playback	- 1
Split Playback	- 1
Picture Playback	

# Step2. Select Stream Type.

Primary Stream and Secondary Stream are available.

Stream Type	
Secondary Stream	$\sim$
Primary Stream	
Secondary Stream	

## Step3. Select channel.

**Note:** The playback stream you selected will be remembered when you reenter the web playback page.



Step4. Select date.

Step 5. Click **D** to play.

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.

**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.

### Table 5. Description of the buttons

Icons	Descriptions	Icons	Descriptions
₹	Speed down		Step reverse
▼	Rewind		Stop
	Play	11	Pause
	Step forward	≯	Speed up
	1 screen mode	Ξ	4 screens mode
$\odot$	Smart Search	$\odot$	Client-side Dewarping
VF	Transcoding	E	Display of POS information

Icons	Descriptions	Icons	Descriptions
ପ୍	Digital zoom		Lock video file
IJ	Quick Tag	Ęŋ	Custom Tag
Č2	Snapshot	<b>∢</b> »	Audio on
<b>4</b> 3	Audio off	ж	Backup
*	Original Image	,× <sup>k</sup>	Resize Image

**Lock Video:** Once the video is locked, the whole file where the video located won't be overwritten. The 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. The 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.

**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



#### Step 1. Select Event Playback as playback type.

Playback Type
General Playback
Event Playback

#### 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. Select Event Type.

Motion Detection	
Alarm Input	
VCA	
Smart Analysis	

In particular, the Detection Object option is available only if the Main Type is VCA and the Sub Type is one of several VCA events. You can search and 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:

- Region Entrance
- Region Exiting
- Advanced Motion Detection
- Line Crossing
- Loitering

Playback Type	
Event Playback	$\sim$
Stream Type	
Primary Stream	$\sim$
Main Type	
VCA	$\sim$
Sub Type	
All	$\sim$
Detection Object	
All	
Human Vehicle	

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

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

3.3.3 Tag Playback



## Step 1. Select Tag Playback as playback type.

Playback Type	
Tag Playback	2
General Playback	
Event Playback	
Tag Playback	
Split Playback	
Picture Playback	
Commentary Descent Annual Comments of Comments of Comments	

## 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.

Tag		
tag		

**Step 5: Select Start Time and End Time.** 



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.



Step1. Select Split Playback as playback type.

Playback Type	
Split Playback	2
General Playback	
Event Playback	
Tag Playback	
Split Playback	- 2
Picture Playback	
A DESCRIPTION OF TAXABLE PARTY.	

## Step2. Select Stream Type.

Primary Stream and Secondary Stream are available.

### Step3. Select channel.

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

### Step4. 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	
2020-08-10 00:00:00	
End Time	
2020-08-10 23:59:59	1111

Step5: It would start playing after clicking "Search", displayed in 4 split screens by default.



3.3.5 Picture Playback



#### Step 1. Select Picture Playback as playback type.

Picture Playback	
General Playback	
Event Playback	
Tag Playback	
Split Playback	

#### Step 2. Select channel.

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

Main Type		
Live View Snapsh	ot	
Live View Snapsh	ot	
Playback Snapsh	ot	-
Continuous Snap	shot	
Event Snapshot		_
F-1 -	A 1 1 1 2	

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.

Sub Type	
All	$\sim$
All	
Motion Detection	
Alarm Input	
VCA	
Smart Analysis	

**Step 4: Select Start Time and End Time.** 

Start Time	
2020-08-10 00:00:00	:14
End Time	
2020-08-10 23:59:59	

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

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

# 3.3.6 Transcoding

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

## Step 1. After successfully search out or play video, select the channel you want to transcoding

# and click 🔨

### to expand transcoding panel.

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

### 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.

# 3.3.7 Video Files Backup

Recorded files can be cut and backed up from WEB.

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

### Step2.Select Recorded files for Backup.

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



# Step3. Backup the recorded files.

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



# 3.3.8 Picture Files Backup

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

Record File Path	C:\Users\Eva\WebView\RecordFile		Browse
Preview Picture Path	C:\Users\Eva\WebView\LiveCaptureFile		Browse
Playback Picture Path	C:\Users\Eva\WebView\PBCaptureFile		Browse
Connection Type	HTTP	$\sim$	
Play Mode	Least Delay	$\sim$	
Auto Logout	15 minutes	$\sim$	
Primary Stream When Fullscreen			

Step 2. Click to save the pictureduring 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.



# 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.

🐋 Milesight	Common Bac	kup	
Common Backup Live View	□ AU □ 1 □ 2 □ 3 □ 4		13 🗆 14 🗆 15 🗔 16
9	Time		
Playback	Stream Type	Primary Stream	
=	Record Type	All	
Retrieve	File Type	All	
127	Start Time	2022-02-21 00:00:00	
smart A	End Time	2022-02-21 23:59:59	
メ Settings キャ Status	Search		
Logs			
Logout			

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

All	
	3 27 4 27 5 27 6 27 28
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.



#### to backup all recorded videos.

In Common Backup interface, play, lock and unlock video are supported. Click to play and  $\blacksquare$  to lock. Once the video is locked, the whole file where the video located won't be overwritten.
Step 3: Select the format to be exported, which includes MP4, AVI and PS format and then click "Backup" to export selected files.

How Control       1004       304 fre-theb free       100       100         Image: Control       1       100 free       100 free       100 free       100 free         Image: Control       Image: Control       Image: Control       100 free	Common Backup				
Image:	19/10/2020	a t tak	Stars Time-End Time	lies .	the second
Binerali	Carter and Carter		2020-10-15-11-34-10-12-54	6-98.2008	(E) W
Internet:       Name: LAMI         E2D: 00-19 TEMARK       Image: Control TEMARK         Image: Control 102: 142: 144: 14       Image: Control 10: 15: 142: 15: 15: 15: 15: 15: 15: 15: 15: 15: 15	A. A.		anna die 1912 same an Phile	(Class)	* *
Size And Size Alexand       File Path         Size And Size Alexand       File Path         Size And Size Alexand       Size And Size Alexand         Size And Size Alexand       Size And Size Alexand         Size And Size Alexand       Size Alexand	Alexandre Marcalant	Backup			
Image: Sec: 100: 100: 100: 100: 100: 100: 100: 10	2020-10-13 13:34-18	File Path Video File Formet PS	Bittiese		
and Tools: (42:14:5 10 + 14:44:15)         b) Tool:: (42:14:14:15)         c) Tool: (42:14:14:15)         c) Tool: (42:14:14:15)         c) Tool: (42:14:15)         c) Tool: (42:14:15)         c) Tool: (42:14:15)         c) Tool: (42:1		Channel Start Town End Town	unlost Province Description		
nk Trans. 2020-10-13 13.5480-1417.25 In Else (KE, 2000 Else	arary Thomas Addates Ada 6.0 a & 24/10	1 2020-10-19-13:34:18-13:54:00			
	Fed Time: 2020-010-09 \$7,53600	1 2020-10-19 13:54:00-14:17:38			
Eschop Stop Cancel	File Kines 684.2048				
Eachap Stop Cancel			Translatil Provenue		100 No.
Eachage Stop Cancel				Bacharp All	6.6
		Bockup	Stop Cancel		

## 3.4.2 Event Backup

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

#	Milesight	Event Backup		
-	Common Backup	Main Type	Mation Detection	
Live View	Event Backup	Stream Type	Primary Stream	
	Picture Backup	Start Time	2022-04-18 00:00:00	
Flayback	Picture backup	End Time	2022-04-18 23:59:59	
-		Pre Playback	01	(6)
Retrieve		Post Playback	10s	
-		Channel	🗋 All	
E			D1 D2 D3 D4 D5 D6 D7 D	8 🖸 9 🗍 10 🗋 11 🗋 12 🗋 13 🗍 14 🗍 15 🗐 16
Settorys Status Lags		Search		
Longour				

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 back up 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:

- Region Entrance
- Region Exiting
- Advanced Motion Detection
- Line Crossing
- Loitering

Event Backup		
Main Type	VCA	10
Sub Type	All	10
Detection Object	All	10
Stream Type	All Human	-
Start Time	Vehicle 2022-04-18 00:00:00	
End Time	2022-04-18 23:59:59	
Pre Playback	Os	
Post Playback	10s	
Channel		
	<u>    1    12    13    14    15    16    17    18  </u>	9 0 10 0 11 0 12 0 13 0 14 0 15 0 16
Search		

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

#### Event Backup

Main Type	Motion Detection
Stream Type	Primary Stream
Start Time	2022-04-18 00:00:00
End Time	2022-04-18 23:59:59
Pre Playback	0s 🗸
Post Playback	10s 🗸
Channel	
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Search

#### The search result can be shown as a list.

			Channel	Disk	Event Duration Time	
		CHO	1	26	2022-04-06 02:22:45-02:22:55	۲
		DH1	÷.	26	2022-04-06 02:23:20-02:23:30	۲
		CH1	4	26	2022-04-06 02:23:35-02:23:45	۲
	F 0	CHT	7	25	2022-04-05 02:23:59-02:24:09	۲
		CHIL	1	26	2022-04-06 02:24:26-02:24:36	۲
States and and a state of a		CHI	1	26	2022-04-06 02:24:45-02:24:55	۲
		CHI	4	26	2022-04-06 02:25:01-02:25:11	۲
		CHI	×.	26.	2022-04-06 02:26:43-02:26:53	۲
Channel: 1 Name: CAM1		CH1	- E	26	2022-04-06 02:28:46-02:28:56	۲
2-04-06-02:22:45		CH1		26	2022-04-06 02:29:20-02:29:30	۲
0000		CHI	. F.	26	2022-04-06 02:29:36-02:29:46	۲
		CHT	1	25	2022-04-06 02:30:00-02:30:10	۲
1 Time: 2022-04-06 02:22:45		CHI	¥	26	2022-04-06 02:30:46-02:30:56	۲
Time: 2022-04-05-02-21-05		CHI	P.	26	2022-04-06 02:31:02-02:31:12	۲
Control and the state of the state of the		CHI	1 - E	-26	2022-04-06 02:12:45-02:32:54	۲
Size: 11-billio	17	CHI	1	26	2022-04-05 02:34:51-02:15:01	()
					Totak1541 (tem(s) 1/15	> >> 😽 🚱

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

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

Event Backup CH1 26 2022-04-06 02:22:45-02:22:55 E CH1 26 2022-04-06 02:23:20-02:23:30 ۲ ۲ CH1 2022-04-06 02:23:35-02:23:45 26 CH1 ۲ 26 2022-04-06 02:23:59-02:24:09 CH1 26 2022-04-06 02:24:26-02:24:36 ۲ CH1 26 2022-04-06 02:24:45-02:24:55 ۲ CH1 E 26 2022-04-06 02:25:01-02:25:11 ۲ CH1 26 2022-04-06 02:26:43-02:26:53 Name: CAM1 CH1 26 2022-04-06 02:28:46-02:28:56 ۲ 2022-04-06 02:22:45 2022-04-06 02:29:20-02:29:30 ۲ CH1 26 ۲ CH1 26 2022-04-06 02:29:36-02:29:46 ۲ CH1 26 2022-04-06 02:30:00-02:30:10 CH1 2022-04-06 02:30:46-02:30:56 œ 26 Start Time: 2022-04-06 02:22:45 ۲ CH1 2022-04-06 02:31:02-02:31:12 26 End Time: 2022-04-06 02:23:05 CH1 26 2022-04-06 02:32:45-02:32:54 6 File Size: 11.6MB Backup Backup All Back Step 3: Select the format to be exported, which includes MP4, AVI and PS format and then click "Backup" to export selected files.

ile Path Ideo File Form	at FS	-	6/D/Hat
Channel	Start Time-End Time	Download Progress.	Operation
1	2020-10-19 13:34:10-12:54:00	· · · · · · · · · · · · · · · · · · ·	
1	2020-10/19 (3:54:00-14:17:39		

# 3.4.3 Picture Backup

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

=	Milesight	Picture Backu	qu		
tive View	Common Backup Event Backup	Channel	0 All	06 07 08 09 010 011 012 013 014 01	5 🖸 16
S Playback	Picture Backup	Picture Type Start Time End Time	All 2022-04-18 00:00:00 2022-04-18 23:59:59		
Smart A		Search			
Settings Status					
Loui					
корон					

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

hannel				
		4 🗆 5 🗆 6 [		11 🗆 12 🗆 13 🗆 14 🗆 15
icture Type	All		$\sim$	
tart Time	2022-04-18 00:00:0	0		
nd Time	2022-04-18 23:59:5	9		
Search				
			Rackup	
p 2: Select the	e file vou want to l	back up and b	lick Backup	. Also, vou can
p 2: Select the	e file you want to l	back up and o	click Backup	. Also, you can
p 2: Select the Backup All	e file you want to l	back up and o	click Backup	. Also, you can
p <b>2: Select the</b> Backup All	e file you want to l to back up all	back up and o recorded vid	click Backup leos.	. Also, you can
p <b>2: Select the</b> Backup All	e file you want to l to back up all	back up and o recorded vid	click Backup leos.	. Also, you can
o 2: Select the Backup All	e file you want to l to back up all	back up and o recorded vid	click Backup leos.	. Also, you can
2: Select the Backup All	e file you want to l to back up all	back up and o recorded vid	click Backup leos.	. Also, you can
2: Select the Backup All	e file you want to l to back up all	back up and o recorded vid	Backup leos.	. Also, you can
o 2: Select the Backup All ure Backup	e file you want to l to back up all	back up and o recorded vid	leos.	. Also, you can
D 2: Select the Backup All	e file you want to l to back up all	back up and o recorded vid	Backup           leos.	Also, you can
2: Select the Backup All Jire Backup	e file you want to l to back up all	back up and o recorded vid	Backup           leos.	Also, you can
D 2: Select the Backup All Ire Backup	e file you want to l to back up all	back up and o recorded vid	Elick         Backup           leos.         Imme           2022-04-07 23:5368         2022-04-07 23:5368           2022-04-07 23:5368         2022-04-07 23:5368           2022-04-07 23:5368         2022-04-07 23:5368	Also, you can
a 2: Select the Backup All	e file you want to l to back up all	back up and o	Ime           20224-07 215:09           20224-07 215:09           20224-07 215:09           20224-07 215:09           20224-07 215:09           20224-07 215:09           20224-07 215:09           20224-07 215:09           20224-07 215:09           2022-04-07 215:09           2023-04-07 215:09           2024-04-07 215:09           2024-04-07 215:09           2024-04-07 215:09           2024-04-07 215:09           202	500 Can
a 2: Select the Backup All Ire Backup	e file you want to l to back up all	back up and o recorded vid	Backup           leos.	<b>Also, you can</b>
D 2: Select the Backup All are Backup	e file you want to l to back up all	back up and o recorded vid	Enckup           Backup           leos.             1000 <t< td=""><td>2. Also, you can</td></t<>	2. Also, you can
a 2: Select the Backup All The Backup	e file you want to l to back up all	back up and o	Iteos.         Backup           Iteos.         Iteos	<b>Also, you can</b>
D 2: Select the Backup All re Backup	e file you want to l to back up all	back up and o	Energy         Backup           leos.         Imm           10000         10000           10000         10000           10000         10000           10000         10000           10000         10000           10000         10000           10000         10000           10000         10000           10000         10000           10000         10000           10000         10000           10000         10000           10000         10000	Also, you can
D 2: Select the Backup All re Backup The Backup	e file you want to l to back up all	back up and of recorded vid	Energy         Backup           leos.         Imm           20224407 213506         20224407 213506           20224407 213506         2022407 213506           20224407 213506         2022407 213506           20224407 213506         2022407 213506           20224407 213506         2022407 213506           20224407 213506         2022407 213506           2022407 213505         2022407 213505           2022407 213505         2022407 213505           2022407 213505         2022407 213505           2022407 213505         2022407 213505           2022407 213505         2022407 213505           2022407 213505         2022407 213505           2022407 213505         2022407 213505           2022407 213505         2022407 213505           2022407 213505         2022407 213505	Also, you can
D 2: Select the Backup All re Backup Underst Channel 1 Channel 1 Channel 1 Channel 1 Channel 1	e file you want to l to back up all	back up and of recorded vid	Energy         Backup           leos.         Image: Comparison of the second seco	Also, you can
2: Select the Backup Al re Backup Ure Backup	e file you want to l to back up all	back up and of recorded vid	Imm           10005.	500 7332 460 7342 460 470 470 470 796 796 796 796 796 796 796 796 796 796
D 2: Select the Backup All re Backup Change 1 New Change	e file you want to l to back up all	back up and o	Energy         Backup           leos.         Imm           1022449178599         125369           1022449178599         125376           1022449178599         125376           1022449178599         125376           1022449178599         125376           1022449178599         125376           1022449178595         1253461           10224491785485         10224491785485           10224491785485         1022449178545           10224491785455         1022449178555           1022449178555         1022449178555	500 can
D 2: Select the Backup All ure Backup Dalaret 1 Narrow Charret 1 Narrow ev Disk Portus 022-04-01 2352:56 ≈7586 more t2389562	e file you want to I to back up all	back up and of recorded vid	Energy         Backup           Leos.         Imm           20224407 53556         20224407 53556           20224407 53556         20224407 53556           20224407 53556         20224407 53556           20224407 53556         20224407 53556           20224407 53556         20224407 53556           20224407 53556         20224407 53556           20224407 53556         20224407 53556           20224407 53546         20224407 53546           20224407 53545         20224407 53545           20224407 53545         20224407 53545           20224407 53545         20224407 53545           20224407 53545         20224407 53545           20224407 53545         20224407 53545           20224407 53545         20224407 53545           20224407 53545         20224407 53545           20224407 53545         20224407 53545           20224407 125545         20224407 125545           20224407 125545         20224407 125545           20224407 125545         20224407 125545           20224407 125545         2023407 125545	Also, you can

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

		Backup	
Snapshot Resolution	Auto		$\checkmark$
		Backup	Cancel

# 3.5 Smart Analysis

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

11	Milesight	ANPR				
=	Analysis Search					
	Anne Paue Derrection Pholos Countring Heart Mais BOG Analysis Settings	License Plate Type License Plate Type Plate Color Verices Type Werces Color Verices Color Verices Color Direction Direction	Adi           Adi           Adi           Adi           Adi           Adi           Data           Data           Data			
		End Time	2022-02-21.2359:59			

# 3.5.1 Analysis Search

## 3.5.1.1 ANPR

You can Search and Backup ANPR logs.

Advert         I Advert         <
11         12         12         14         15         16         17         16         15         16<
Institute Place Place Type All Scatting Lisense Place Place Coor All Vence Type All Vence Coor All Vence Coor All Vence Coor All Uncertain All Uncertain All Uncertain Start Time 2022-02-21 0000/00
Settings Litere Plate Coor An As Settings Wenkie Coor As Settings Wenkie Coor As Settings Wenkie Coor As Setting Setti
Plane Color All Vencer Type All Settings Vence Color All United Speed All Direction All Start Time 2022-22:000000
Settings Venice Opion As Settings Venice Opion As Control Opion Start Time 2022-02-03 0000.000
Settings White Color As Color As Color As Color As Color As Color As Color Start Time 2022-02-21 0000.00
Vehicle Spred All Unrection All Start Time 2022-02-21 0000/00
Libection A4
jitart Timu (2022-02-21 00:00:00
End Time 2022-02-21 23:59:59

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

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

ANPR	Name: CAMB	CHI 2022-11-17 (42/927) CHI 2022-11-17 (42/927) CHI 2022-11-17 (42/927) CHI 2022-11-17 (42/927)
2021-11-17 14:39:22		Total 4 kem(s) 🚿 < 👘 🦄 🕨 🧰 🚳
Chaonel: 3		Backup All Backup Eack
Time: 2021-11-17 14:39:32		
License Plate: RTS78N	Plate Type: Visitor	
Plate Color: N/A	Vehicle Type: N/A	
Vehicle Color: N/A.	Vehicle Speed: 0	
Direction: N/A	Country / Region: N/A	
ROLID: N/A		

You can click  $\bigcirc$  to play the video.



There are two methods to backup ANPR logs.

• Backup license plates you want.

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

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

	Back	cup	
File Palli	Fr\test\test\LPR	backup	Browse
Expart File	🗇 Plate List	📕 Video	[] Picture
Video Stream Type	Primary Stream		
Video File Format	MP4		
		Bedup	Cancel

• 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.

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

### 3.5.1.2 Face Detection

You can Search and Backup the results of Face Detection.



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

#### **Note:**

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





There are two methods to backup Face Detection results.

• Backup Face Detection logs you want.

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

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

	Ba	ckup	
Export File	☑ Video	Picture	
Video Stream Type	Primary Strea	m 🗸	
Video File Format	MP4	$\sim$	
		Backup	Cancel

• 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.

## 3.5.1.3 People Counting

You can Search and Backup the results of People Counting.



**Step1:** Entering search conditions.

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

(1) Select "People Counting by Camera":

**Channel:** Check the corresponding channels. It supports simultaneous search of multi-channel reports.

Line: Check the detection lines. It supports simultaneous search of multi-channel reports.

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

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

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

(2) Select "People Counting by Group":

Group: Select the groups.

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

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

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

(3) Select "Regional People Counting":

**Channel:** Check the corresponding channels. It supports simultaneous search of multi-channel reports.

Region: Check the detection regions. It supports simultaneous search of multi-region reports.

Length of Stay: Choose the length of stay.

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

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

**Step2:** Click 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. For People Counting by Group, you can back up the results in two ways:

(1) Backup the group you want.

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

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



(2) Backup all.

Step1: Click backup all button Backup All

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

Then you will get corresponding file.

## 3.5.1.4 Heat Map

You can Search and Export Heat Map results.



**Step1**: Entering search conditions.

Step2: Check the corresponding channels. It supports simultaneous search of multi-channel reports.

Step3: Select the 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.



**Step4:** Select the Report Type. Daily Report, Weekly Report, Monthly Report and Annual Report are available.

Step5:Input the time from which you want to Search.

**Step6:** Click secret to obtain the corresponding result and then you can click export to export it.

### 3.5.1.5 POS

You can Search and Backup the results of POS.

	N/1-1-11	1		
#	Milesight	POS		
-	Analysis Snarch	PDS No.	E Au	
1 Vin	ANPR		01 02 01 04 05 06 07 08	
-	Face Detection			
-laynad	People Counting	PDS Content		
	Heat Mag	Start Timie	2022-02-21 00:00:00	
23	HTM.	End Time	2022-02-21 2359:59	
and the second s	Analysis Settings			
國		Search		
Smart A				
*				
Summings.				
柴				
- 51				
125				
Lop				
De.				
Lingous				

**Step1:** Entering search conditions.

**POS No.:** Select the POS number first.

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

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

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

**Step2:** Click Search to obtain the corresponding result.

	POS Na.	Dime	POS Information	Play
	× 1	2021-11-01 14:32:33	11111 BOF 111111 BOF 221122 BOF 122122	
Channet 11 Name: CAM1				
-11-01 1433/3	1			
			Total:2 Item(s)	> >> [60]
			Barkup Alt Ba	Chup Back

You can click  $\bigcirc$  to play the video.



There are two methods to backup POS results.

(1) Backup the POS information you want.

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

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

	Backup		
File Path			Browse
Export File	OS List 🗌 Vide	D	
Video File Format MP4	ļ	$\sim$	
		Backup	Cancel

(2) Backup all.

**Step1:** Click backup all Backup All button;

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

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

## 3.5.2 Analysis Settings

### 3.5.2.1 ANPR

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

#### 📑 Note:

- Insert available HDD to NVR.
- Upgrade your device to corresponded firmware version.
  - ° Camera: V4X.7.0.72-r16 or above
  - NVR: V7X.9.0.7-r7 or above
- Ensure both camera and NVR support LPR/ANPR function. Up to 16 ANPR channels are supported for Milesight NVR.
- 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 Settings -> LPR -> General Settings interface.



#### Settings

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



Step 1: Select a channel and enable ANPR function;

License: Generated by camera's information

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

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

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

Image Settings	
LPR Night Mode	Enable
LPR Night Mode Effective Time	Customize
Start Time	18 🗸 00 🔨
End Time	06 🗸 00 🗸
Level	
Image Settings	
LPR Night Mode	Enable
LPR Night Mode Effective Time	Auto
Day to Night Value	<sup>36</sup> Reset
Night to Day Value	
IR Light Sensor Value	0 0
Level	

**Note:** Make sure your camera's version is 4X.7.0.77 or above so that the Auto option for LPR Night Mode Effective Time is available.

**Step 4:** Set ANPR function effective time;

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

	Detec	ction Settings	
Detection Trigger	Always	<u></u>	
Confidence Level		4	-
Repeat Plate Checktime	0	Milliseconds	(0~60000ms)
License Plate Foramt	Edit	]	
Features Identification	🗆 All		
	Region	Direction	
	ROI_ID		
		OK Cance	l Apply

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

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

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

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

License Plate Foramt							
License Plate Character Count							
License Plate Foramt *							
Add							
ID I	license Plate Character C	ount	License Plate Foramt	Enable	Edit	Delete	
0	All		×		-	-	
1	7		AAA1111	✓	1	Ŵ	
Push Correct C	Character Count Results (	Dnly	Disable				
Push Correct C Format Examp	Character Count Results ( le : AA111*	Dnly	Disable				
Push Correct C Format Examp A - Letters Onl	Character Count Results ( le : AA111* y	Dnly	Disable				
Push Correct C Format Examp A - Letters Onl 1 - Numbers C	Character Count Results ( le : AA111* y July	Dnly	Disable				
Push Correct C Format Examp A - Letters Onl 1 - Numbers C * - Unrestricted	Character Count Results ( le : AA111* y )nly d Type	Dnly	Disable				

• Click 💷 to add a License Plate Format.

License Plate Character Count	1 ~
License Plate Foramt	*
Add	

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

• 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.



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

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

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



#### List Management

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

1	Vilasiaht	ANIDO	
	1 · Incolgin		
	Analysis Search	Santingy List Massgement Blank Medie Write Midly Visiter Medie	
	Analysis Settings	Hiteme Plate Plate Search	
	ANPR LAta Detection	Licinus Plate Plate Sype Ealt I	Dettelo
	People Counting		-
	reiner Ways		
	b(22		
		Total O litern(s) 🔍 🚽 (0)(0) 🕨 🍉	GO
		Add Delete List Import Deport	
		Note: Prease uproad city format (Seturt-5) for batch import. Click here to download the template.	

There are two methods to add license plates:

• Add one by one.

**Step 1:** Click Add button

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

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

	Add License Plate	
License Plate	MS2222	
Plate Type	Black	$\checkmark$
	ОК	Cancel

• Batch adding by importing template.

Step 1: Click Click here to download the template. Template;

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

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

**Step 3:** Click Import button , select the file and into list.

, select the file and click OK to add all license plates

### Black List Mode/White List Mode/Visitor Mode

We provide you three modes for better event management, which is based on two license types.

Black List Mode: Manage event for license plates in black list.

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

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



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

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

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

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

The user can set effective schedule as following two ways:

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

settings.

2. Click Edit to edit record effective time manually.

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

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

							Action								
udible Warning	En	nail Li	nkage		PTZ /	Action		Alarm	Output		W	hite LEC		C	Others
Select A		C	lear All												
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24		
Mon	0	2	4	6	8	10	12	14	16	18	20	22	24		
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24		
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24		
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24		
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24		
Sat Holiday	0	2	4	6	8	10	12	14	16	18	20	22	24		
Audio File			Default	: ~											
Triggered Ir	iterval		20s	$\sim$											
														ок	Ca

**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.

		Acti	on		
udible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Other
Select Al	II Clear All				
Sun	0 2 4	6 8 10	12 14 16 18	3 20 22 24	
Mon	0 2 4	6 8 10	12 14 16 14	3 20 22 24	
Tue	0 2 4	6 8 10 6 8 10	12 14 16 18	3 20 22 24	
Wed	0 2 4	6 8 10	12 14 16 1	3 20 22 24	
Thu	0 2 4	6 8 10	12 14 16 10	3 20 22 24	
Sat	0 2 4	6 8 10	12 14 16 16	3 20 22 24	
Holiday	0 2 4	6 8 10	12 14 16 18	3 20 22 24	
Triggered In	terval 20s	$\vee$			
Picture Attac	hed Disable	$\sim$			
				0	ĸ

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

User can set effective schedule as following two ways:

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



And you can add PTZ Action by clicking 💷.

PTZ Action:					
Channel Select C	Channel \vee	Action Type	Preset 🗸	No.	
Add	Delete				

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx\_x (such as CH1\_1) according to the camera channel and corresponding alarm number.

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



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

The user can set effective schedule as following two ways:

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.

		Acti	on		
dible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Select A	II Clear All				
Sun	0 2 4	6 8 10	12 14 16 18	20 22 24	
Mon	0 2 4	6 8 10	12 14 16 18	20 22 24	
Tue	0 2 4	6 8 10	12 14 16 18	20 22 24	
Wed	0 2 4	6 8 10 6 8 10	12 14 16 18	20 22 24	
Thu	0 2 4	6 8 10	12 14 16 18	20 22 24	
Fri	0 2 4	6 8 10	12 14 16 18	20 22 24	
Sat	0 2 4	6 8 10	12 14 16 18	20 22 24	
Holiday					
Triggered In White LED:	terval 20s	$\sim$			
				·	

And you can add White LED by clicking .

White LED:					
Channel Select C	Channel V	Flash Mode Twinkle	∨ Flash Time	3	Reset
	Delete				

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

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

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



### 📑 Note:

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

#### 3.5.2.2 Face Detection

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

#### **Note:**

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

hable Face Detection		
Basic Settings		,
Schedule Settings		,
Alarm Action		>
Face Detection Message F	Post Settings	
Enable Face Detection N	lessage Post	
Post Type	O TCP HTTP	
Port	0214	
Save		

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

#### **Face Capture**

Milesight	Face Detection	n
Analysis Search	New Capture	Administration
Analysis Settings	Channel Yount	
ANDR	Destruit	18
Face Detection	Face Detection	2
Persole Counting	Record Settings	
roat Mag	Descent Pages	
205	1	
	·	
	The state of the s	
	1.15	
	1.1	
	Min. Detection Sae	30
	Region Edit	Detection Region
	Edit Operation	Sint All Dedete All
	Shield Region (D	Name Enable Delete
	ACCOUNTS ON A DESCRIPTION OF A DESCRIPTI	And a second sec
	Event.Settings	
	Tace Capture Settings	Add:
	Effective Time	Fale
	Action	Edit
	2010	

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

Step 2: Set Min. Detection Size;

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

directly, or you can also click Only the faces in the detection region will be detected, and the faces in the shield region will not be detected.

Step 4: Make configuration for face capture snapshot.

	Face Capture Settings	
Capture Mode	Quality Priority	$\sim$
Capture Quality	01	
Target Snapshot Type	Target Snapshot Type	$\sim$
Background Snapshot	Disable	$\sim$
Snapshot	1	
	OK	Cancel
		Cancer

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

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

**Note:** It is recommended to choose Quality Priority Mode.

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

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

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

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

Snapshot Interval: 80 milliseconds, 200 milliseconds, 500 milliseconds, 1 second, 2 seconds and 4

seconds are available. This option is optional for Customize mode.

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

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

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

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

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

**Step 5:** Set Face Detection function effective time;

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

For detailed settings of these actions, please refer to <u>Alarm Action (page 63)</u>.

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

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

#### Advanced

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


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

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

#### **Note:**

- 1. Attribute Recognition function cannot be used together with Face Privacy function
- 2. To enable Face Privacy Mode, the video parameters will be changed to the recommended configuration as shown below:
- H.265 video codec (all streams)
- Primary Stream: 1080P@25fps
- Secondary Stream: 704\*576@25fps
- Tertiary Stream: Disabled

# 3.5.2.3 People Counting

#### **People Counting Settings**

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



### Step1. Enable Channel Event.

Select Channel and Detection Line, then enable People Counting.

5
4

# **Step 2. Set Detection Lines.**

Select the direction and draw the line after clicking button.



**Note:** It supports drawing up to 4 detection lines and configures them individually.

#### Step 3. Set Object Size Limits.

Object Size Limits	Finish		Reset
Minimum Size(1x1~320x240)	3	<b>x</b>	3
OMaximum Size(1x1~320x240)	320	<b>x</b>	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 4. Set Detecting Sensitivity.** 

Step 5. Set Counting Information by clicking "Edit" button.

	Counting Information Edit	
Count Type	■ All 🗹 In 🔽 Out 🔲 Sum 🗌 Capacity	
OSD	Disable	$\sim$
OSD Font Size	Small	$\sim$
OSD Text Position	Top-Left	$\sim$
Line Counting Information	Enable	$\sim$
Reset Counting Information	Reset ①	
Reset Counting Data	Reset	
Auto Reset	Disable	$\sim$
Day	Everyday	$\sim$
Time	00 : 00 : 00	*
	OK Cancel	

# Table 6.

Parameters	Function Introduction
Count Type	Users can choose the information they want to display in Live Video.
OSD	Enable/disable the OSD shown.
OSD Font Size	The font size of the OSD display.
OSD Text Position	The text position of the OSD display.
Line Counting Information	Enable/disable the line counting information.
Reset Counting Information	Click this button to clear the count information on the OSD
Reset Counting Data	Click this button to clear the count information in the database. <b>Note:</b> After enabling this option, the count information of the search interface will also be cleared.
Auto Reset	It is used to automatically clear the counting information according to your settings.
Day	The day of Auto Reset.
Time	The time of Auto Reset.

Step 6. Set Alarm Trigger and Alarm Action.

Sensitivity	5		
Counting Information	Edit		
Alarm Trigger	Total Counting	$\sim$	
Thresholds	Edit		
People Counting Schedule	Edit		
Action	Edit		
Copy to Camera			

# Table 7.

Parameters	Function Introduction			
	Alarm will be triggered 9999. Total Counting a Thresholds of In/Out/C	when the threa and Single Cou apacity/Sum.	sholds reaches to a ce nting are available. Yo	rtain value from 1 to u can set the Alarm
			Thresholds	
	In		9999	1~9999
	Out		9999	1~9999
	Capacity	/	9999	1~9999
Alarm Trigger	Sum		9999	1~9999
			ОК	Cancel
	<ul> <li>For Total Counting lines.</li> <li>For Single Counting</li> </ul>	g, the threshold	ds are the sum of the to	otal number of 4 detection
	Set action including Au White LED, HTTP Noti please refer to <u>Alarm A</u>	udible Warning fication and Ot Action <i>(page 63</i>	, Email Linkage, PTZ A hers. For detailed setti 3).	action, Alarm Output, ngs of these actions,
Alarm Action	<ul> <li>The alarm action i</li> <li>If you enable Externation time, when the thread time alarm time</li> </ul>	s effective on 4 rnal Output an resholds reach will be always	4 detection lines simulta d choose Constant Ext to a certain value you constant till the alarm i	aneously. ernal Output Action set, External Output s released.

Step 7. Set People Counting detection schedule by clicking "Edit" button.



Step 8. Click [Copy to Camera] to copy the same configuration to other channels.

#### **Occupancy Live View Settings**

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



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

Step 1. Set Group.

**Group Settings:** Click Edit to pop up the Group Settings interface. Then you can click of 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	
	<b>v</b> 33 <b>v</b> 34 <b>v</b> 35 <b>v</b> 36 <b>v</b> 37 <b>v</b> 38 <b>v</b> 39 <b>v</b> 40 <b>v</b> 41 <b>v</b> 42 <b>v</b> 43 <b>v</b> 44 <b>v</b> 45 <b>v</b> 46 <b>v</b> 47 <b>v</b> 48
	𝑥 49 𝑥 50 𝑥 51 𝑥 52 𝑥 53 𝑥 54 𝑥 55 𝑥 56 𝑥 57 𝑥 58 𝑥 59 𝑥 60 𝑥 61 𝑥 62 𝑥 63 𝑥 64
	OK Cancel

#### Step 2. Select a Group from the added Groups.

Group	1	$\sim$

Group Name: The corresponding Group Name will be automatically obtained according to the

Group No. you choose. You can modify the Group Name by clicking on the corresponding Group in the Group Settings interface.

#### Step 3. Enable People Counting for the selected Group.

People Counting	Enable	$\sim$
· · · · ·		

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 turns 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.

For detailed settings of these actions, please refer to Alarm Action (page 63)

#### **Regional People Counting Settings**

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



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

Channel	1	$\sim$
Region No.	1	$\sim$
Regional People Counting	✓	

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

#### Step 2. Set detection region.



#### Step3.Set Minimum Size and Maximum Size.

Object Size Limits	Finish		Reset
Minimum Size(1x1~320x240)	3	x 3	
OMaximum Size(1x1~320x240)	320	x 240	)

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

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

#### Step4.Set Sensitivity.

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

	5
Constitution	
Sensitivity	

Step5. Set alarm trigger. Alarm will be triggered when the threshold exceeds the certain value.

Max. Stay	60	1~60
Min. Stay	1	1~60
Max. Length of Stay	30	1~1800s

#### Step 6. Set detection schedule by clicking "Edit" button.

Regional People Counting Schedule	Edit	
Action	Edit	
Copy to Camera	₹	
Save		
Please configure Regional People Cour	ting schedule on camera side.	

# Step 7. Set alarm action including Audible Warning, Email Linkage, Event Popup, PTZ Action, Alarm Output, White LED and Trigger Channels Record.

For detailed settings of these actions, please refer to <u>Alarm Action (page 63)</u>.

#### **Report Auto Backup Settings**

Here users can configure Auto Backup of People Counting reports. Then you can periodically export .CSV reports of the last day, last week, or all to the external device or Email.

=	Milesight	People Counting
-	Analysis Search	People Counting Settl., Cocupancy Live View., Regional People Count., Report Auto Backup 5
The second seco	Analysis Search Analysis Search Activit Face Distriction Teach Search PDA	Preset Counting Sett.       Occupancy Uve Werk:       Regional Private Count       Report Auto Backup S         Preset Type       Preset Counting by Camera         Report Auto Backup       Imabe         Ocannil       Q AI         Q for Q 1       Q 1

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

Step 2: Enable Report Auto Backup, and then select the Channel or Group.

Step 3: Set the day and the time.

Day	Everyday	$\sim$
Time	16 : 41 : 00	÷

**Step4:** Select the Detection Line.

Step 5: Select Backup Time Range including Last Day and Export All.

**Step 6:** Users can export the reports to the Email.

### 3.5.2.4 Heat Map

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

#### **Heat Map**

=	Milesight	Heat Map
	Analysis Search	Heat Map Faport Alex Backap S.
Lock Vinne	Analysis Settings	Heat Map Sattings
9 Partial	ANPR Face Detection People Counting Head Map	Channel 6 9
×	157	Min. Duvell Time 30: 1+300+ Scene Dulangé Adaptaktify 3 Tangton familitys
********		
		Negon Education Faith

**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.

Heatmap Schedule: Set Heat Map schedule by clicking "Edit" button..

#### **Note:**

1. Ensure that your camera's version is 4X.7.0.74 or above.

- 2. Please configure Heat Map schedule on camera side.
- 3. The Heat Map function only works on the following cameras:

Fisheye: Ensure that the dewarping mode is 10 and the dewarping rule is On-board Dewarping.

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

#### **Report Auto Backup Settings**

Here users can configure Auto Backup of Heat Map reports. Then you can periodically export .CSV reports of the last day, last week, or all to the external device or Email.

=	Milesight	Report Auto Ba	ckup	
-	Analysis Search	Heat Map	eport Auto Backup 5	
Liver View Splayback Status Servine Stratus Status Lieges Lieges	Analysis Search Analysis Settings ANPR Face Detection People Counting Hank Map POS	Heat Map Report Auto Backup Channel Day Time Report Type Backup Time Range Backup To	Enable         W All         N1         N2       102       25       3       4       15       16       17       18       19       10       111       12       15       14       15       16         Everyday       Image: Contract of the state of the stat	

Step 1: Enable Report Auto Backup, and then select the channels.

Step 2: Set the day and the time.

Day	Everyday	$\sim$
Time	16 : 41 : 00	▲ ▼

Step 3: Select Report Type including Space Heat Map and Time Heat Map.

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

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

#### 3.5.2.5 POS

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



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

POS Name: You can customize the POS name as needed

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

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

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

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

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

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

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

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

Font Size: Set the font size of POS information

Font Color: Set the font color of POS information

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

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

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

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

Step 3: Set POS function effective time;

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

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

# 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

	Contero mor	lagement									
Local Configuration	Camera Manageme	ol Batziv Management									
Camera	Chappel	(f.		Channel Name	CAMI						
Carmen Management	Protocol	ONWE		IP Address							
Device Search	Part	80		Transport Protocol	Auto	10					
FT2 Configuration	User Name	admin		Password							
mage	Time Setting	Sync Time With NVR									
8=50											
Advanced.		Reduct Particip	-								
Demera Maintenance	130	Romesta Desete	pair sumenication								
Storage	Dianne	I Channel Name	Edit Delete	Status IP	Address Ch	annel 1D Port	Protocol	MAC	Firmware Version	Model	SN
Event	日 3	CAM3	2 8	192	168.69.66	-80	MSSP	1CE3162AB1E6	45.8.0,1-web-a5	MS-C2975-RFIPC	
System	□ 4	CAM4	1 0	9 192	168.69.107	80	MISSP:	100316222220	43,7.0,78+1	M5-C2962-RF#B	
	Free Receiving Bandy	width 151,00Mbps									
	1										

#### Step 1. Add camera.

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

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



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

Photogrammet         No.         IP Addomsk         Total         Vanture         Partner         MAC         MAC         Termsnume Vandade         Mache         Mache <thm< th=""></thm<>
number       Image       Image <t< th=""></t<>
Nove Scherful         B2         192,168,692.13         v <sup>2</sup> Anive         100         MSP         LAW         102182/MB28         4MSr - S23         Mole Scherful         Mole Sch
P12 Configuration:         0         102.166.0525         1/2         Assive Assive Total Add/215         1/2         Assive Assive Assive Total Add/215         1/2         Assive Assive Assive Total Add/215         1/2         Assive Assive Total Add/215         1/2         1/2         Assive Assive Total Add/215         1/2         Assive Assive Total Add/215         1/2
Image         Image <th< td=""></th<>
Image: Second
Number         Image         Image <t< td=""></t<>
Abased         Interface         I
Camera Maintrasce         14         192,168,09,227         x <sup>2</sup> 100         ONVIP         LAN         2057(15)315A           Storage         15         192,168,09,228         x <sup>2</sup> 40         ONVIP         LAN         4856431E83.44           Prent         13         192,168,69,228         x <sup>2</sup> 40         ONVIP         LAN         4856431E83.44           Syntam         13         192,168,69,249         x <sup>2</sup> Active         100         ONVIP         LAN         4856431E83.44           Syntam         13         192,168,69,249         x <sup>2</sup> Active         100         MSP         LAN         10C2116122658         452,0279+20.3469;ee         MS-C2562-719A         Milesight           Syntam         192         192,168,69,249         x <sup>2</sup> Active         100         MSP         LAN         10C2116122658         452,7279+20.3469;ee         MS-C2562-719A         Milesight           Syntam         192,168,69,249         x <sup>2</sup> Active         100         MSP         LAN         10C2116122658         452,7279+20.3469;ee         MS-C2562-719A         Milesight           10         192,168,69,249         x <sup>2</sup> Active         100         MSP         LAN         10C2116
Sporage         ID         192 188.69.228         1         807         LAN         4826A51888A         4         4826A51888A           Ivent.         ID         36         192.188.69.211         .4         1         807         ABBA512617.61           Min-C2602.7188A         Min-sight           System         ID         192.188.69.248         .4         Active         80         MSSP         LAN         4826A51818A         Min-C2602.7188A
Count         Image: Description of the state
Spritter         ID         37         182.186.66.248         /*         Active         80         MSEP         LAN         10C.11612269         117.0.79         McC-080-7HPA         Molecipit           Spritter         ID         38         392.186.66.248         /*         Active         80         MSEP         LAN         10C.11612269         457.029+20 3-84ye         McC-080-7HPA         Molecipit           ID         39         192.168.66.248         /*         Active         80         MSEP         LAN         10C.116122768         337.079+1         McC-080-7HPA         Molecipit           ID         39         192.168.66.248         /*         Active         80         MSEP         LAN         10C.11612068         337.079+1         McC-080-7HPA         Molecipit           ID         40         192.168.662.250         /*         Active         80         MSEP         LAN         10C.11612068         337.079+1         McC-080-7HPA         Molecipit           ID         40         192.168.662.250         /*         Active         100         MSEP         LAN         10C.11612068         337.079+1         McC-080-7HPA         Molecipit           ID         40         192.168.662.250         /*
Spetam         I         B8         192.166.66.240         v/*         Active         80         MSP         LAN         1CC316327CI5         457.076+283-36vy         MSC358-36         MSC358-36           I         B9         152.166.66.240         v/*         Adive         80         MSP         LAN         1CC316327CI5         457.076+283-36vy         MSC358-36C         MSIcrospit           I         B9         152.166.66.240         v/*         Adive         80         MSP         LAN         1CC316317CB8         337.079+10         MSC358-36C         MSIcrospit           II         A0         152.168.662.200         v/*         Adive         80         MSP         LAN         1CC316317CB8         337.079+10         MSC358-36C         MSIcrospit           III         A0         152.168.662.200         v/*         Adive         100         MSSP         LAN         1CC316287CB8         455.2.376+00         MSC3163-4C         MSIcrospit           III         Adive         100         MSSP         LAN         1CC316287CB8         455.2.376+00         MSC3163-4C         MSIcrospit           III         Adive         100         MSSP         LAN         1CC316287CB8         455.2.376+00         MSIC3163-4C
19         15216866250         x <sup>2</sup> Adive         80         MSEP         LAN         10C15101056         337,079+0         M5-0576-7A         Millioght           10         10216806251         x <sup>2</sup> Adive         100         MSEP         LAN         10C15101056         337,079+0         M5-0516-7C         Millioght           11         40         10216806251         x <sup>2</sup> Adive         100         MSEP         LAN         10C15127C8I         453,737+00         M5-0516-7C         Millioght
☐ 40 1321848231 2 <sup>4</sup> Anive 18 MISP Link 1021453708 433737×30 MIS-018-PC Millingki 27 41 13214845331 2 <sup>4</sup> Anive 18 MISP Link 1021453708 433737×30 MIS-018-PC Millingki
17 41 102146460352 Autor 00 10260 135 1220367 127676.7 146.20176.76 146
42 192,168,69,253 4 Active 80 MS2P LAN 102316266509 41.7.0.79 MS-C5373-96 Milleight
Add Actively IP Edit

3. Select one channel, click Add button, input password and click Add button 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		
			OK Cancel

4. Check to **batch adding** the network cameras if they are with the same password, you can choose TCP, UDP or Auto transport protocol for it. Click **OK** to finish batch adding.

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

	Add Camera
User Name	admin
Password	••••
Transport Protocol	Auto
_	
	OK Cancel

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

Camera Manag	gement			
Camera Management	Batch Management	_		
	6	~		0.005
Channel	0	×	Channel Name	CAM6
IP Address			Port	80
User Name	admin		Password	
Transport Protocol	Auto	$\sim$	Time Setting	Sync Time With NVR
Protocol	ONVIF	$\sim$		
Add R	efresh Delete	Edit Authentication		

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.

### **Camera Management**

Camera Management	Batch Management			
Channel	5	$\sim$	Channel Name	CAM5
IP Address			Port	80
User Name	admin		Password	
Transport Protocol	UDP	$\sim$	Time Setting	Sync Time With NVR
Protocol	ONVIF	$\sim$		

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

# **Camera Management**

R
54/sub

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

Camera Manag	gement		
Camera Management	Batch Management		
Channel	5	Channel Name	CAM5
IP Address	192.168.7.222	Port	80
User Name	admin	Password	•••••
Transport Protocol	UDP	Time Setting	□ Sync Time With NVR
Protocol	MSSP		
Add	efresh Delete Edit Authentication		

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

#### Camera Management

Camera Management	Batch Management	_		
Channel	12	$\sim$	Channel Name	CAM12
Protocol	Milesight DDNS	$\sim$	Domain Address	ddns.milesight.com/24F03C
Transport Protocol	Auto	$\sim$	User Name	admin
Password			Time Setting	Sync Time With NVR
Add	Refresh Delete	Edit Authentication		

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

#### **Note:**

1. When adding a fisheye camera in Multi-Stream Mode, NVR would distinguish all of its channels as independent channels for adding, which depends on its Display Mode. For Example, if a Fisheye camera's Display Mode is 103R, there would be 4 Channels to be added. The original view gets Channel ID as 1, and the first region view gets Channel ID as 2, and so on. Thus you can select the ID to add as your demand.

	Ca	imera Chanr	nel Add	
Channel	ID			
🗹 All				
<b>I</b> 1	<b>2</b> 2	<b>V</b> 3	☑ 4	
		ОК		Cancel

2. Only Fisheye camera has Channel ID.

	-Chennel	Channel Name	Edit	Delete	Status	ID Address	Channel ID	Port	Pretiscol	MAC	Firmware Version	Model
D.	1	CAMI	1.1	1	۲	192.188.14.102	1.000	1506	ONVIR	100316210991	40.7.0.78	MS-C2962-FP6
	ž	CAM2	2°	1.6	۲	192.168.14.105		8088	ONVIE	100316219804	407.078	MS-C2961-EE
	1	CAM3.	1	1	۲	192.165.14.164	-	8884	ONVE	100316236011	40.7.0.75	MS-02942-B
		CAMA	1	1	٢	192,168,14,105		8085	ONVIE	IC/C316220D8D	43.7,0.76	M5-C9674-P8
0	8	CAMS	0	- 0	0	192.10117.231		80	SNVI#	100316287075	45.7.0.70	MS-C2864-RPPC

# **Step 2.Check the connection status.**

After adding the IP channels, click Refresh button on Camera Management interface, then appears under Status.

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

1.0	Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID.		Protocol		Firmware Version	Mode)
	9	CAMT	4	8	0	192 168 14 102		8081	DNVIF	1CC316210991	40.7.0.78	M5-C296Z-FP8
		CAMZ	1	1	0	192.163.14.103		6083	ONVIF	100316219804	40.7.0.75	MS-C2961-EB
	1	CAM3	1	и.,	Disconnected:	192,166,14,104	-	8084	ONVE	100316230015	40.7.0.78	MS-C2942-B
	4	CAM4	1		Indorrect Password	192.168.14.105	1	8085	ONVIE	100316220060	45.7.0.78	MS-C9674-PE
	5	CAMS	7	100	A	192.168.7.234		80	ONVIE			

#### Step 3.Configure camera.

**Configure one camera** 

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

	-		
Shennel	102 168 14 102	Channel Name	RORT
Jser Name	admin	Password	*******
ransport Protocol	UDP	Time Setting	Sync Time With NVR
rotocol	MSSP		
			OK Cancel

Go to Parameters page to re-edit parameters of this channel, select the Record Stream Type as General or Event to set different parameters separately. It is recommended to set lower parameters for General Stream to save certain storage. Click [OK] to save after your configuration.

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

#### **Batch configuring camera**

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

cal Configuration	Campra N	lanagement	Barch Management											
amera	Transmit	interal	Auto	19	-	Committee Stop and	Enable		10					
enera Managament	Wideo Code	rotocor	14.764	191		Secondary sumar	H 25A		100					
rvice Search	TOPO LOGA	~	102011000	100		VIGEO COUPL	6 401 400							
12 Configuration	Prame Super		1920-1000	-		trame saze	040-400		-					
-age	Maxifiame	ecate.	23			Max trame Rate	(25							
udia	Bit Rate		4096			Bit Rate	512		-					
hyanced	Bit Rate Co	rstrol	CBR	191		Bit Rate Control	CBR		100					
amera Maïntenance	I-framy Inte	reval	50	15		i-frame interval	50		199					
lorage	Smart Street	im	Off	14		Smart Stream	Off		100					
rent						Time Satting	Sync Tit	ne With NVR						
ystern	Save	a da a	elresh Delete	Edit Authori	entication									
		_		-	-	_	_	_	_	_	_			_
		Ournel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Port	Protocol	MAC	Firmwate Version	Model	SN
	8	Ournel T	Channel Name CAMT	Edit	Delete	Status.	IF Address 92.168.68.42	Channel ID	Port	Protocol	MAC 10C316500027	Firmware Version 6) 8.0.2-image307-spd- a1	Model MS-C2971-X23RDE	SN
	8	Damel T 2	Channel Name CAMT CAMZ	Edit	Delete	Status C 1	19 Address 92.168.68.42 92.168.69.161	Channel ID	Port. 80 10	Protocol MSSP MSSP	MAC 100316500027 100316282802	Firmwate Version 51.8.0.2-image307-spd- a1 45.8.25.3-a4	Model MS-C2971-X23RPE MS-C5341-X23PC	SN
	8 8 8	Damel T 2	Channel Name CAM1 CAM2 CAM1 CAM1	Edit	Delete	Status Status T S S S S S S S S S S S S S	IF Address - 92.168.68.42 92.168.69.161 92.168.69.133	Channel ID	Port. 80 80 80 80 80	Protocol MSSP MSSP MSSP	MAC 100316500027 100316282802	Firmwine Vorsion 61.8.0.2-image307/spd- a1 45.8.25.3-a4	Model MS-C2971-X238PE MS-C534T-X23PC	570
	8 22 22 22 22	Dunnel T 2 J 4 S	Channel Name CAN1 CAN2 CAN3 CAN4 CAN5	Edit	Delete	Status	IP Address 92.168.68.42 92.168.69.161 92.168.69.183 92.168.69.185 92.168.69.182	Channel tD	Port. ao ao sour en en	Protocol MSSP MSSP MSSP MSSP MSSP	MAC 100316500027 100316282802	Firmware Worston 61.8.0.2-image307-spd- 3 45.8.25.3-a4	Model MS-C2971-X23RPE MS-C534T-X23PC	578
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Dunnel T 2 1 a 5 6	Channel Name GAMT CAM2 CAM2 CAM3 CAM4 CAM4 CAM4	Edit No. 1. No. 1. No. 1.	Detete 10 10 10 10 10 10 10 10 10 10 10 10 10	Status	IP Address 92.168.69.42 92.168.69.161 92.168.69.165 92.168.69.165 92.168.69.165 92.168.69.162	Channel ID	Port ao ao ao ao ao ao ao ao ao ao ao	Protocol MSSP MSSP MSSP MSSP MSSP MSSP	MAC 100316500027 100316282502	Firmware Vorsion (6).8.0.2-image307-spd- a1 45.8.25.3-a4	Model MS-C2971-X23RPE MS-C5341-X23PC MS-C5442-X110A	<u>SN</u>
		Channel T 2 3 4 5 6 7	Channel Name CANT CANT CANS CANS CANS CANS CANS	Edit 2012 2012 2012	Detete W W W W	Status	IP Address 92,168,66,42 92,168,69,161 92,168,69,165 92,168,69,165 92,168,69,162 92,168,69,162 92,168,69,162	Channel tD	Port 80 80 80 80 80 80 80 80 80 80 80 80 80	Protocol MSSP MSSP MSSP MSSP MSSP MSSP MSSP	MAC 100316500027 100316282802 10003161720489 1003161720489 1003162153020	Firmwate Version 51.8.0.2-image307-spd- a1 45.8.25.3-a4 11.8.0.5-a4 45.7.0.79-11-65	Model MS-C2971-X23RPE MS-C5341-X23PC MS-C2962-11684 MS-C2962-11684	570 
	8 8 8 8 8 8 8 8 8 8	Channel T 2 3 4 5 6 7 8	Channel Name GANT GANS GANS GANS GANS GANS GANS GANS	201 とうとう くろう		Satus	P Address 92.168.66.42 92.168.66.42 92.168.66.161 92.168.69.165 92.168.69.165 92.168.69.162 92.168.69.162 92.168.69.161	Channel (D	Port. 80 80 80 80 80 80 80 80 80 80 80 80 80	Protocol MSSP MSSP MSSP MSSP MSSP MSSP MSSP	MAC 100316500027 100316382802 100316112088 100316112088 100316112088	Firmwate Version 51.8.0.2-image307-spd- a1 45.8.25.3-a6 11.8.0.5-s4 45.7.0.79-11-65	Model MS-C2971-X23RPE MS-C3M1-X23PC MS-C2882-THRA MS-C2886-X48PC	5N 
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Channel T 2 9 4 5 6 7 8 9	Channel Name CANT CANT CANS CANS CANS CANS CANS CANS CANS				P Address 92.168.66.42 92.168.66.42 92.168.69.161 92.168.69.105 92.168.69.165 92.168.69.162 92.168.69.162 92.168.69.204 92.168.69.60	Channel 1D	Port	Protocol MSSP MSSP MSSP MSSP MSSP MSSP MSSP MSS	MAC 100316500027 100316282692 10031618282692 10031618366	Firmwate Version 63.8.02-image307-spd- a3 45.8.25.3-a4 11.8.0.5-a4 45.7.0.79=1-o5 45.8.02-i.581.+1	Model MS-C2971-32389E MS-C3341-3029C MS-C3842-3789A MS-C2882-3489C MS-C2882-3489C	5N 
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Dummel T 2 3 4 5 6 7 8 9 9	Channel Name CANF CANF CANS CANS CANS CANS CANS CANS CANS CANS				PP Address 50:168.66.42 92:168.66.161 92:168.69.165 92:168.69.165 92:168.69.182 92:168.69.102 92:168.69.204 92:168.69.161 92:168.69.60	Channel 1D	Port: 80 80 80 80 80 80 80 80 80 80	Protocol MSSP MSSP MSSP MSSP MSSP MSSP MSSP MSS	MAC 100316500027 100316282692 10031618282692 10031618283500 10031611497E	Emmata Virsion 618.022-integotor spd- a3 458.253-a4 978.035-p4 457.079-41-65 458.02-i581-41	Model MS-C2917-X23896 MS-C2947-X23897 MS-C2947-X2967 MS-C2967-X238197 MS-C2967-X238197	992 

#### Step 4. Delete camera.

You can delete this channel by clicking <sup>III</sup>, or you can select multiple devices and then

ick	Dele	to de	elete.									
Add	Refresh	Delete Edit A	adientication									
	Channel	Channel Name	Ēde	Delete	Status	IP Äddress	Channel ID	Port	Protocol	MAC	Firmware Version	Model
a.		CAMI	7	1	0	192,368,34,302		6/061	ONVIE	1CC316210991	40,7,0,78	M5-C2962-898
	2	CAMZ	10		0	192 165 14101		/5003	ONVIE	102316219804	407078	MS-C2961-ED
		CAME	1	1	0	102 168 14.104		10084	ONVIE	ICCIHOLID15	407.078	M5-C2942-6
0.01			100						Second :	Territoria	in the second	
0		CAM4	6		0	192,168,14,105		0085	CANALE	100116220060	43.7.0.78	M5-C9674-P0

#### 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 <u>Edit Authentication</u> 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 The PoE NVR:
  - Set camera's IP segment to the same as NVR PoE NIC before plugging to PoE NVR;
  - Select PoE for NIC in Device Search interface, click Search button to search out cameras;
  - Select cameras and click Add button to add them.

Edit	t Authentication								
User Name	admin								
Password	••••								
Note: Edit authentication for selected cameras.									
	ОК	Cancel							

4. You can **access tocameras website** directly by clicking , which can save much steps to configure cameras with complete settings which were unavailable.

Camera	Manageme	nt											
Caminto Ma	Supement Batch	Management											
Channel	6		10	Channel Name		CAME	36						
IP Address.				Port		80							
User Name	Indenio			Pasavorril									
Transport Pro	toral Auto			Time Setting		Sync Time With NVII							
Protocol	ONVIE		10.1										
Add	Refresh	Deletr	Edit Authentication										
STORE OF	Channel	Channel Name	Edit	Delete	Status	IP Address	Channel ID	Acces	Port	Protocol	MAC	Firmware Vanion	Model
	Channel	Channel Name CAM1	Edia	Delete	Status	IP Address 192.163.14.102	Channel ID	Access	Port	Protocol	MAC 100316210991	Firmware Venion	Madel MS-C2962-FPB
	Channel I 2	Channel Name CAM1 CAM2	Edit	Delete	Status ©	IP Address 192 168 14 102 192 168 14 103	Channiel ID	Anteria O O	Port 8081 8083	Protocol DNVIE DNVIE	MAC 100316210991 100316219804	Firmware Version #0.7.0.78 40.7.0.76	Model MS-C2962-FPB MS-C2961-EB
	Channel I Z I	Channel Name CAM1 CAM2 CAM3	Edit .	Delete	Status O O	ID Address 192.168.14.102 192.168.14.103 192.168.14.104	Channel ID	Access O O	Port 8081 8083	Protocol DNVIF DNVIF DNVIF	MAC 100316210991 100316219304 (000316236013	FirmWare Vettikon 407.0.78 407.0.76 40.70.75	Model MS-C2962-FP5 M5-C2961-EE M5-C2942-6
• • • • •	Channel I I I 4	Channel Name CAM1 CAM2 CAM3 CAM3 CAM4	Edit V V V	Delete	Status O O O	IP Address 19216514102 19216514103 19216514103 19216514104 19216514105	Channel ID		Pore 0081 8081 8084 8084	Protocol DNVIF DNVIF DNVIF DNVIF	MAC 100316210991 100316219804 (00816236D13 100816230080	Firmware Version #0.7.0.78 40.7.0.78 40.7.0.75 43.7.6.78	Model M5-C2962-FP5 M5-C2961-E8 M5-C2942-8 M5-C2674-P6

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.

# 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		NOC MAL	-	In Hange Ca		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						
iera	1000	No.	IP Address	Edit	Stattas	Port	Protocol	NIC	MAC	Firmware Weston	Model	Windor	SN
merá Management		27	192.168.69.212	1	Active	80	MSSP	LAN	100316290165	43.7.0.79	MS-C2973-898	Milesight	
wice Search		28	192,168,69,213	6	Active	80	MSSP	LAN	10C3162A0B39	45.7.0.79-12	MS+C2964-TFIPC	Milesight	
2 Configuration		29	192.168.69.215	4	Active	85	MSSP	LAN	100316297170	41.7.0.79-17	MS-C5383-28	Milesight	
		30	192.168.69.216	- C	Active	82	MSSP	LAN	10C31629BCFA	41.7.0.79	MS-C8176-P8	Milesight	
dia		31	192.168.69.222	- (r		80	ONVIF	LAN	4CBD8FDE68FD				
handad		32	192.168.69.223	5		80	ONVIE	LAN	64DB884ECF08				
energies and a second			192.168.69.224	- (c.		82	ONVIF	LAN	Seconds areas				
mera Mantenance		24	192,108.09.227	- 5		90	ORVI	LAN	205781531540				
orage		35	192.168.69.228	5		80	UNVIF	LAN	435453155844				
ent	L.	20.	192.108.09.231	1		- 80	LIVVIP	LAN	ASEADSLOTLIN			10.11	
		37	192.158.09.240	1	Active	100	MSSP	1.1.1	ACC316112ADV	45 3 0 70 - 30 3 4 - 9	Ma-Geybe-Trime	Arti-Jula	
- MENTS		20	192.168.09.249	5	Active	00	MISSP.	Lan	100316267045	43.7.0.79750-506ye	MS-C3303-PL	Arthorization	
	-	30	192.100.09.230	5	Active		AACCE.	LAN	100510112005	45 9 8 96 -34	ME COSTO PR	Alleria	
	10	40.	192.108.09.251	3	Active	- 00	MISSP	1.1.1.	100316257082	43.7.0.79-70	MG-C0103-PC	Milecola	
		42	102 168 60 252	1	Action	20	AACCD-	LAN	1002162625DD	317079	MG-P6070.00	Atlacidat	
	TO HE	-	192 (00092233		PALLER		maar	Line	100310200303	41-10019	113 (231 270	renergen	
	4.0		Arthony	IP For									

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

							1		- 1	
Protocol ALL	$\sim$	NIC ALL	$\sim$	IP Range 0 . 0 .	0.0	255.255.255.255		Search		Add

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	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	
	OK Cancel

# 3.6.3 PTZ Configuration

# Basic

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

Milesight	PTZ Configuratio	n	
Local Configuration	Basic	PTZ Privacy Mash Auto Tracking Advansed	
Camera	Channel		
Camera Management Device Learch	Channel PT2 050	1	
FT2 Configuration	Zoom Status	5 seconds	
Image	PandcTilt Status	5 seconds	
AudRo	Preset Status	5 seconds	
Adjuncid	Patrol Status	Always Open	
Camera Mantenanze	Pattern Status	Always Open	
Storage Event	Auto Scan Status Precet	Ahways Open	
System	Preset Freezing Speed		
	Preset Spend Patrol	5	
	Patrol Recovering	п	
	Patrol Recovery Time Yocus	30. (5-720a)	
	Focus Mode	Semi-Auto	
	Minimum Focus Distance Power Off Memory	1 meter	
	Set Resume Time Dishumbilitying	Disable	
	Fan Working Mode	General	
	Copy to Camera	*	

Step1. Select channel.

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

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

Step 4.Set Speed.

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

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

Step 5.Set Patrol.

Patrol Recovering: Enable Patrol Recovering

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

Step 6.Set Focus.

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

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

Step 7.Set Power Off Memory

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

Step 8.Set Dehumidifying.

**Fan Working Mode:** Three fan working modes are available: General/Enhancement/Constant **General:** The fans are turned on from 4am to 7am and 5pm to 8pm every day

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

**Constant:** The fans work 24 hours a day

#### **PTZ Privacy Mask**

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



You can add a privacy mask by following steps:

#### Step1. Select channel and enable Privacy Mask.

Step2. Select the Region Type as Mask or Mosaic.

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

**Note:** 

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

Step3. Click 🔟 to edit PTZ Privacy Mask Name, the Privacy Mask Type and Active Zoom Ratio.



Step4. Select "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.



Step1. Check the checkbox to enable Auto Tracking.

**Step2.** Enable "Report to Motion Detection" to trigger Motion Detection alarm during auto tracking.

Step3. Enable "Show Tracking" to show tracking in Auto Tracking function.

**Step4.Set detection region.** 

Step5.Set detecting sensitivity.

Step6. Set Max. Tracking Time which must be between 5~300s. The camera will stop tracking when the tracking time is used up.

Step7. 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:
- Set zoom ratio by 🔳 🎽 🛍 button.
- Click "Set" to save your configuration.



Step8. Check the type of tracking object as Human or Vehicle.

Step9. Click "Edit" to edit Auto Tracking Schedule which will be synchronized to IP Camera.

Step10. Click [Copy to Camera] to copy the same configuration to other channels.

#### Step11. Click "Save"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.

filesight PTZ Co	Configuration	
Configuration	Basic P(2 Privacy Mask Auto Tracking Advanced	
Channel	t.	
n/Management	On Type ONVE	
e Search Baud Rate	2000	
Data Bit	1C.	
Stop Bit		
Checksum f	n Bit Prope	
A Mantenance PTZ Protoco	sent VELCO D	
oe PTZ Addres	N4. T	
Copy to Car	Centres 🖌	
12.44		
WT 122		
WT [22	2 01 04 05 06 07 08 09 010 01 01 01 01 016 016	

# **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

3.6.4.1 Display



Step1. Select channel.

Step2. 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 to Camera''on the bottom of the windows.

#### Step 4. Select "Save" to save the settings.

#### 3.6.4.2 Enhancement

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

	Milesight	Image					
	Local Configuration	Display	Enhangement	Dwy/Night Settings	050	Privacy Mask	RDI
ļ	Camera	Channel	4				
	Carner's Management		1	- /			
	PTZ Configuration		100				
	knage						
	obult.			1 4			
	Camera Maintenance	7	-	_			
	Storage						
	Event	IR Balance Mode	Off				
ļ	System	Reduce Motion Blur	Off	15			
		Delog Mode	Off				
		Write Balance					
		White Balance	Auto White Balan	co-			
		Exposure					
		Exposure Mode	Auto Mode	14			
		Backlight					
		BLC/WDR/HLC Mode	Single Mode	10			
		BLC/WDR/HLC	BLC				
		DLL ragion	Lon				
		reable to ensure the					

Step1. Select channel.

Step2. 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 to Camera" on the bottom of the windows.

```
      Copy to Camera

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

#### Step 4. Select "Save" to save the settings.

# 3.6.4.3 Day/Night Settings



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 to Camera" on the bottom of the windows.

Сору	to Can	nera -												-
🗌 Se	lect All													
1	2	3	4	5	6	□ 7	8 🗌	9	□ 10 □	11 🗌 12	□ 13	14	□ 15	16

#### Step 4. Select "Save" 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.



Step 1. Select channel.

Step 2. Select Video Stream, including All Streams, Primary Stream and Secondary Stream.

Step 3. Select OSD Font Size, including Smallest, Small, Medium, Large, Largest and Auto.

Step 4. Enable video title and timestamp.

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 5. Copy the OSD settings to the other channels by clicking the "Copy to Camera" button on the button of the windows.

Step 6. Select "Save" to save the settings.



#### 3.6.4.5 Privacy Mask

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



You can add a privacy mask by following steps:

Step1. Select channel and enable privacy mask.

Step2. Select the Region Type as Mask or Mosaic.

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

📃 Note:

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

# Step3. Copy the privacy area to the other channels by clicking the "Copy to Camera" button on the button of the windows.

#### Step4. Select "Save" 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

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



You can add a ROI by following steps:

Step1. Select channel and enable ROI.

Step2. Set thevideo stream type to achieve bandwidth and storage optimization, including Primary Stream and Secondary Stream. And drag the mouse to select the area in the preview window. Then click "Add"

button to add the area to the table. You can add 8 areas at most and each zone can be enabled and disabled. Please note that the areas added to the table will not take effect until you click''Apply''.

Step3. Copy the ROI area to the other channels by clicking the "Copy to Camera" button on the bottom of the windows.

Step4. Select "Save" to save the settings.

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

3.6.5 Audio

#	Milesight	Audio				
-	Local Configuration	Eternel Auto				
	Camera	Channel	4			
໑	Сагтига Малацинний	Audio	Enable			
lunck	Device Search	Audio Mode	Both Audio Input & Output			
R	PTZ Configuration	The second	13/02 - 1/ 20 31 29			
	lmagé					
r	Austo-					
<u>.</u>	Camera Maintenance					
	Storage	- (7	-			
95 J	Event					
	System					
Г		Dessing	Dicable			
L		Encoding	G.711-ULaw			
L		Sample Rate	BKHz F			
		Input Gain	50			
		Audio Gutput			_	
		Audio Gain Control	Disable			
		Output Volume	50			
		Copy to Camera		*		
		-				
		Save				

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

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

Denoise: Set it as On/Off. When you set the function on, the noise detected can be filtered.

Encoding: G.711-ULaw, G.711-ALaw, AAC LC, G.722 and G.726 are available.

Sample Rate:8KHz, 16KHz, 32KHz, 44.1KHz, and 48KHz are available.

Audio Bit Rate: The function is available only for AAC LC, and supports up to 256kbps.

Input Gain: Input audio gain level, which is 0-100.

Auto Gain Control: This function is only for H.265 series, improve the quality of audio.

Output Volume: Adjust volume of output.

**Note:** Make sure you camera version is xx.7.0.76 or above.

### 3.6.6 Advanced

3.6.6.1 Watermark



You can add a watermark by following steps:

Step 1. Select channel.

Step 2. Click the checkbox to enable Watermark.

Step 3.Enter Watermark String.

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

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

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

### 3.6.7 Camera Maintenance

Milesight NVRs support both Online Upgrade and Local Upgrade of Milesight Cameras. Also, Milesight NVRs support batch maintenance of cameras including Import&Export Configuration, Reboot, Reset, etc., making Milesight NVRs become the central management site to manage the cameras more easily.

#### Local Upgrade

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

Local Configuration     Local Lipprode     Online Lipprode     Import/Export Castlig
Camical         Upgride           Camical         Firmulate           Camical Minsignment         Firmulate           Device Seach         Reset settings to factory default (accept IP Address and User Information)           PTC Configuration         Image           mage         Image           Advanced         Channel Chunnol Namo           1         CAMIN           2         CAMI2           2         CAMI2           12         CAMI2
Camiral Minsgement     Emersian       Decke Search     Reset settings to factory default (accept IP Address and User Information)       IPIC configuration     Upgrade       Image     Image       Advanced     Image       Image     Channel       Channel     Channel       Image     Image       Image     Channel       Image     Image       Image     Image       Image     Channel       Image     Channel       Image     Image       Image     Channel       Image     Channel       Image     Channel       Image     Channel       Image     Channel       Image     Channel       Image     Image       Image     Image       Image     Channel       Image     Image       Image     Image       Image     Channel       Image     Image
Device StateCh         Image: Image: Advanced         Image: Image
P12 Configuration         Description         Description <thdescription< th=""></thdescription<>
Upgzale         Upgzale         Putmoti           Audia <ul> <li>Channel</li> <li>Channel</li> <li>Channel</li> <li>Product</li> <li>Protocit</li> <li>MAC:</li> <li>Firmware Wrision</li> <li>Model:</li> <li>Channel</li> <li>Channel</li> <li>Product</li> <li>Protocit</li> <li>MAC:</li> <li>Firmware Wrision</li> <li>Model:</li> <li>Upgzale:</li> <li>Channel</li> <li>Protocit</li> <li>MAC:</li> <li>Firmware Wrision</li> <li>Model:</li> <li>Upgzale:</li> <li>Channel, Midprouve</li> <li>CAMIT</li> <li>Status:</li> <li>192.196.66.42</li> <li>Model:</li> <li>Model:</li></ul>
Aldia         Channel         Channel         Status         IP Address         Channel ID         Protocol         MAX:         Firmwere Weston         Model         Upgrade Pro-           Advected         1         CAM1         2         192.186.84.2         -         MSSP         10231650027         b1.8.0.2 image107-sp3 at         MS-52971-323876         -           Camera Marietmanze         2         CAM3         2         193.196.96.161         MSSP         10231620027         45.8.0.2-11         MS-52371-323876         -
Advanced         I         CAM1         IS2:168.88.42         MSSP         TCC316500027         B1.8.0.2 image/871-apd/art         MS-C2971-32387E         -           Canverd Ministratory         I         2         CAN12         IS2:168.69.161         MSSP         TCC316500027         B1.8.0.2-image/871-apd/art         MS-C2971-32387E         -
Cennes Michimacet 🛛 2 CAN3 🥥 19239849.161 : MSSP 10231982802 458.02-11 MS-C3341-323PC -
Storage I CAM3 A 192106.09.115 : M55P
C CAMS 🛆 192,168,46,182 MSSP
System CC3161 T2669, 1192 MSSP 11CC3161 T2689, 11.8.0.1.1/1 MS-C2962-1799A -
□ 7 CAM7 O 192.188.80.254 - MSSP 102.11638510C 45.7.0.79-11-03 MS-C2866-X4RPC -
0 CAM8 🛕 1921 Maga
9 CAMB 2 192.168.09.60 I MSSP 10C39611407E 45.8.0.2-UR91-H1 MS-C2967-X23RLPC

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

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

Cold Hogeneth     Online Upgrade     import/Export Config.     Reloct     Bieset     Diagraphies     Logs       mma     Homewall     Homewall     Immed     Immed     Immed     Immed       mma     Homewall     Homewall     Immed     Immed     Immed       mma     Homewall     Immed     Immed     Immed       Management     Reset settings to factory default (except IP Address and Uper Information)     Immed       22 Configuration:     Reset settings to factory default (except IP Address and Uper Information)     Immed       40:-     Reset settings to factory default (except IP Address and Uper Information)     Immed       40:-     Reset settings to factory default (except IP Address and Uper Information)     Immed       40:-     Reset settings to factory default (except IP Address and Uper Information)     Immed       40:-     Reset settings to factory default (except IP Address and Uper Information)     Immed       40:-     Reset settings to factory default (except IP Address and Uper Information)     Immed       40:-     Reset settings to factory default (except IP Address Challerer ID     Immed Address Addres
Samera         Utgosale           amera Mansgerment NoteStaamh         Permeare           2006 Samh         Permeare           22 Configuration maju:         Reset settings to factory default (secopt IP Address and User Information):           12 Configuration maju:         Pertende           10 Samh         Satura           10 Saturation         Pertende           10 Saturation         Permeare
Camera Management Invice Search 42 Configuration mage     Environ     Environ       12 Configuration mage     Exert settings to factory default (except IP Address and Use information)       12 Configuration mage     Environ       10 Configuration mage     Environ       10 Configuration mage     Environ       10 Configuration mage     Environ       11 CAN1     19 Address       12 Configuration Marchanovic     11 CAN1       12 Configuration Marchanovic     11 CAN1       11 CAN1     1121/06.06/42       12 Configuration Marchanovic     11 CAN1       11 CAN1     1121/06.06/42       12 Configuration Marchanovic     1102/16/20202       11 CAN1     1121/06.06/42       12 Configuration Marchanovic     1102/16/20202       12 CAN1     1121/06.06/13       11 CAN1     1121/06.06/14       11 CAN1
Bit         Channel Klaine         Status         IP Address         Channel Kl         Product         MAC         Timmaard Version         Model         Mystebic Prograd           sheered         Q         1         CAN1         Q         192.166.842         -         MSSP         10C315500027         81.8.8.2 image/307-spb.st         MS-22977-0230F8         -           smmt Multishnuke         Q         2         CAM3         Q         152.166.643 init         MSSP         10C31500027         81.8.8.2 image/307-spb.st         MS-22977-0230F8         -           smmt Multishnuke         Q         2         CAM3         Q         152.166.643 init         MSSP         10C315020202         45.8.02-y1         MS-5341-3229C         -           status         Q         F         CAM3         A         152.166.643 init         MSSP         - </th
diversed 22 1 CAM1 2 112168.68.42 - M559 102315500027 61.8.0.2 image107-spd.=1 M5-C2971-12289€ - sees Ministerious 20 2 CAM2 2 112166.69.161 : M559 102316282502 45.8.0.2+1 M5-C3811-3239C - 102350 2 11 CAM1
amena Multidemande 02 2 CAM/2 ♥ 192.166.69.161 : MISSP 102316282502 458.0.2-1 Mis-CSB41-323PC : 192.95
102.000 II CAM3 🔥 192.168.69.135 : M559 -
😰 4 CAM4 🛕 102.106 - MISCP
Vent 27 5 CAMS 🛆 192.168.40.182 MSSP
ntami 😥 6 CAM6 🥥 19216669.192 MSSP 10231912669 114.01.1-1 MS-02902-11994
20 7 CAN7 Q 19215889.254 - MSSP 10211638510C 452.079.17.∞5 MS-C2864-X48PC -
😥 e cane 🛆 tsz.telas.tet i Msz.r
8 9 CAM9 9 192.168.69.60 MSSP 10231511407E 43.8.02.4081+1 MS-C2967.X238LPC

#### **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  $\widehat{}$  in corresponding Upgrade column will turn blue and the latest version will be displayed in Latest Version column.

lilesight	Cam	era Mai	ntenance										
el Configuration	Lo	al Upgrade	Online Upgrade	Impor	t/Export Conlig_	Reb	oot	Revet	Diagnosis informa	aian Logs			
pera		berti -		Dates	di .								
uma Managorment							-	-			_	a horse of the	-
(ce Search	10	Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Latest Version	Upgraide	Upgrade Progress
Configuration		-	CAMT		192.168.68.42		MSSP	100316500027	61.8.0.2-image307-sp8-a1	MS-C2971-X23RPE		V	
Q+-		. 4	CAMS		192.168.69.161		MSSP	1CC316282E02	45.6.0.2-11	MS-C5341-X23PC		X	
6a			CAMS		192.158.69.115		MSSP						
apred	4		CAMO		142 168 69 143		MOOP					0	
era Maintenance		3	CANS		192.108.09.102		Mose	100010000000	S1001.3	140 00000 7000		42	
1406			CANAD		103.140.00.004		MO3P MOVO	100316312409	is to the st	MA-CORE-ITER		0	
			CALLS	-	103 146 40 141		Mare	The Internation	471211411-02	MIS-LEDUC-MARTS.		0	
nt			CANIG	0	192 168 69 60		MCCP	107318414075	458074PR1-4	ME CREAT YORK DO		4	

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

- Milesight Camera Maintenance = Local Configuratio Local Upgrade 9 Channel Channel N 0 0 CAM 45.8.0.1 - LPR\_ELL-1 CAMZ 00 192.168.69.85 MSSP 45.8.0.1-web-a5 MS-C2975-RFPC 1 CAMA 192,168,85,107 NEED 43.7.078-11 MS-C2962-RF98 \*
- Click the blue icon in corresponding Upgrade column to upgrade camera.

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



#### **Import/Export Configuration**

<b>Step 1.</b> Choose the corresponding channel you want to import/export configu
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	Call	cro mante	enonee.	0.000	-						
ocal Configuration	Los	al Upgrade	Online Upgrade	import/Expo	rt Config	Reboot	Res	et Diagra	ovis information Lo	25	
amera	leiport	Configuration R	ю					_			
Lamana Management	Configu	ration Film				Browse					
Device Search		_									
TZ Configuration	Im	port									
mage.	Export	configuration Fil	·								
Audia	R.	hum									
Advanced	-										
	Channel										
itorage	Flor	rests									
vent		Ourrel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Timmware Version	Model	Progress
lystem	80	- 1	CAM1	0	192,168,68,42		MSSP	100\$16500027	61.8.0.2-image307-spid-e1	MS-C2971-X23RPE	
	2	2	CAM2	0	192.168.69.101		MSSP	100816282802	45.825.8-#4	ME-C5341-X23PC	
	20	4	CAM3	A .	192.768,69,135		MISSP				
	100	4	CAM4		192,168,69,166		MSSP				
	2	5	CAMS		192.168.69.182		MSSP				
	8	Б.	CAMO	0	192.158.69.152		MSSP	TCCST6112A89	37.8.0.3-a4	AKS-C2962-TERA	
	2	7	CAM7	0	192.168.69.204		MSSP	100316285100	45.7,0.79-(1-05	MS-C2856-X4RPC	
	10	В	CAMB	A .	192.168.69.161		MSSP				
	2	9	CAMP	0	192.168.69.60		MSSP	10C31611407E	45.8.0.2-LP81-r1	MS-C2967-X23RLPC	

#### • Import Configuration File:

Step 2. Click "Browse" and select a .cfg file.

Step 3. Click "Import" to import a configuration file.

Milesight	Cam	era Mainte	enance								
Local Configuration	Lo	al Upgrade	Online Upgrade	import/Espo	n Config	Reboot	Hen	et Diagre	osis information La	21	
Camera	Interest	Configuration Fil						2.4			
Camera Marsagement	Configu	ration File			- 'E						
Device Search	2					DIDWSE					
PTZ Configuration	Im	port									
Image	Export	Configuration File									
Audia		-									
Advanced	64	xup									
Camera Maintenance	Ehannai							_			
Storage	Ret	irests									
Event		Ourrel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Vecsion	Model	Progress
System	82	- 7	CAM1	0	192,168,68,42		MSSP	100816500027	61.8.0.2-image307-spd-e1	MI5-C2971-X23RPE	
	2	2	CAM2	0	192.168.69.161		MSSP	100816282802	45.825.8144	MS-C5341-323PC	
	8	1	CAM3	A .	192.168.69.135		NISSP.				
	88	4	CAM4		192,168,69,166		MSSP				
	2	- 5	CAMS		192.168.69.182		MSSP				
	88	6	CAME	0	192.168.69.152		1455P	TECHTETTEARY	17.0.0.3-64	ARS-C2962-TEIRA	
	2	7	CAM7	0	192.168.69.204		MSSP	100316285100	45.7,0.79-(1-05	MS-C2856-X4RPC	
		8	CAMB	A .	192.168.69.161		MSSP				
	80						44/10	100334114075	458023091-1	MS-02067-V218/ pc	

## • Export Configuration File:

Step 2. Click "Backup" to export configuration file.

Interort Con	ofiguration File									
Configurat	ion File				Browse					
Impo	rt.									
Export Cor	fliguration File	Го <u></u>								
Backu	æ.									
Channel .							_			
Police										
	_									
	Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Virraware Vecsion	Model	Progress
82	- 7	CAM1	0	192.168.68.42		MSSP	100316500027	61.8.0.2-image307-spd-e1	M5-C2971-X23RPE	
2	2	CAM2	0	192.168.69.161		MSSP	100316282802	45.825.3-#4	ME-C5341-323PC	
8	1	CAM3	•	192.768,69.135		MSSP.				
83	4	CAM4	•	192,168,69,166		MSSP				
2	5	CAMS	•	192.158.69.182		MSSP				
88	ð.	CAME	0	192.108.69.152		MSSP	100316112489	37.8.0.3-84	AKS-C2962-TERA	
2	7	CAM7	0	192.168.69.204		MSSP	100316285100	45.7.0.79-11-05	MS+C2856-X4RPC	
12	8	CAMB	4	192.168.69.161		MSSP				
28	Ŷ	CAMP	0	192.168.69.60		MSSP	10C31811407E	45.8.0.2-LPR1-r1	MS-C2967-X21RLPC	
	Emplet Co Configurat Expert Co Example Backton Rate Rate Rate Rate Rate Rate Rate Rate	Insport Configuration File Configuration File Export Configuration File Extended Dummel Channe	Inecol Configuration File Configuration File Import Export Configuration File Extends	Insport Configuration File Configuration File Export Configuration File Extended Channel Channel Stame Status Channel Channel Channel Stame Status Channel Status Chan	Inscrit Configuration Ris           Emport           Import           Import           Extend           Backup           Extend           Channel           Channel           Channel           Channel           Schlein           P2 Channel           Schlein           Schlein      <	Lescon Configuration File         Browse           Emport         Emport           Export Configuration File         Browse           Extended         Extended           Browse         Browse           Extended         Extended           Browse         Extended	Lesont Configuration File         Browne           Engont         Browne           Engont         Engont           Engont         Engont	Lescolit Configuration File         Bitraine           Engont         Import           Export Configuration File         Export Configuration File           External         External           External         External <tr< td=""><td>Beconf Configuration File         Browne           Export         Frame           Exclusion         File           Exclusion         Exclusion           Exclusion         File           Exclusion         Exclusion           Exclocon         Exclusion      &lt;</td><td>Bowne           Bowne           Bowne</td></tr<>	Beconf Configuration File         Browne           Export         Frame           Exclusion         File           Exclusion         Exclusion           Exclusion         File           Exclusion         Exclusion           Exclocon         Exclusion      <	Bowne           Bowne

#### Reboot

Step 1. Choose the corresponding channel you want to reboot.

Local Configuration         Local lupusel         Onlow lupusel         Onlow lupusel         Onlow lupusel         Onlow lupusel         Debot         Biner         Diagends Holomasian         Loga           Carsa         Carsa         Inter	Milesight	Camera Mai	itenance								
Carcia         Interf         Carenal           Carena Manigurmeri         Dravadi Masari media         Status         Dravadi Masari Masari Media	Local Configuration	Local Lipgrade	Online Upgrade	import/Expo	ort Config_	Reboot	Res	et Diagra	osis Information Lo	91	
Construction         Channel         Channel         Device         Address         Channel ID         Protocol         MAC         Firmmark Mexicon         Model         Redoct Ompress           Intagin         I         CAMPI         I         CAMPI         I         Protocol         MAC         Firmmark Mexicon         Model         Redoct Ompress         Image	Camera		-								
Drike Saarch         F         Outward         Outward         Statu         IP Address         Chunnel ID         Protocol         MAC         Immune Mectadon         Model         Redoct Magnets           IP 2 Configuration         II         C.AM1         IP 2 182.786.842         MSIP         ICC11650027         BLB.D2-image107-red-41         MSI-C2971-023.092         AMI-C2971-023.092         MSI-C2971-023.092         AMI-C2971-023.092         AMI-C2971-023.092	Camera Management	Halboot	Bernich								
M2 Configuration       I       CAM1       I       192.186.84.2       M58       10C21850027       01.80.2.imge07.md/al       M8-C2971.023.08       -         Imagin-       III       C       AAA       IIII       M58       10C21850027       01.80.2.imge07.md/al       M8-C2971.023.08       -	Device Search	Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Vecsion	Model	Reboot Progress
Imagin     Imagin <td>PTZ Configuration</td> <td><b>1</b></td> <td>CAM1</td> <td>۲</td> <td>192.168.68.42</td> <td></td> <td>MSSP</td> <td>ICC\$16500027</td> <td>61.8.0.2-image307-upd-#1</td> <td>M5-C2971-X23RPE</td> <td>-</td>	PTZ Configuration	<b>1</b>	CAM1	۲	192.168.68.42		MSSP	ICC\$16500027	61.8.0.2-image307-upd-#1	M5-C2971-X23RPE	-
Audio       Adviso       Adviso       Hold Freedering       Hold Freedering       -       Hold Freedering       -       Hold Freedering       -       -       Hold Freedering       -       -       Hold Freedering       -       -       -       Hold Freedering       -       -       Hold Freedering       -<	Image	2	CAM2	0	192,168,69,161		MSSP	100336282802	458253-94	MS-C5341-3(2)PC	
Adversel         R         4         CAM         1923/962/01466         MSSP           Concept Microscove         SS         CAMS         A         1923/962/01466         MSSP         MSSP           Soctope         G         CAMS         G         1923/962/01462         MSSP         CCMMSP         38.8.0.1.44         MS-C2865-XR40c         -           Soctope         R         CAMSI         CAMSI         CAMSI         CAMSI         MSSP         CC2316/912/02         43.7.0.7.9.1-05         MS-C2865-XR40c         -           System         R         CAMSI         CAMSI         MS         1923/962/912C         43.7.0.7.9.1-05         MS-C2865-XR40c         -           System         R         CAMSI         CAMSI         MS29         10C316/11407E         45.0.0.2.4/811v1         MS-C2865-XR40c         -	Audia	82 L	CAM3	Δ.	192.168.69.135		MSSP				
Conservation         R2         S         CAMS         A         19234848192         MSDP         MSDP         Intelligence         Inteli	Advanced	<b>10</b> 4	CAM4	4	192,168.69,166		MSSP				
Scorege         G         CAM6         O         102/164/85.452         -         MSDP         102/164/81.424         MSDP         112/31.424         MSDP         MSD	Camera Maintenance	2 5	CAMS	- A-	192.168.69.182		MSSP				
Solution         R         7         CAMP         P         195,546,82,904         -         MSP         102234283102C         433,2479-1-65         MSE-2869-XARE         -           Event         R         CAMB         A         192,158,39,181         MSS         -<	Division	<b>3</b> 6	CAMO	0	192.768.69.162		MISSP	100316112489	32.8.0.1-a4	MS-C2962-TERA	
Event         Ø         C.A.MR         A         192.168.09.401         MSSP         -           System         Ø         C.A.MR         Ø         192.168.09.400         MSSP         102.114011407E         454.0.02-L/PE1+11         MS-C2667.0238L/PC         -	storage	<b>1</b> 7	CAM?	0	192,168,69,204		MSSP	100316285100	45.7,0.79-r1-o5	MS-C2865-X4RPC	
System	Event	<b>1</b> 8	CAMB		192.168.89.161		MSSP				
	Surtien	<b>2</b> 9	CAMB	0	192.168.69.60		MSSP	1CC31611407E	45.8.0.2 LPR   + )	M5-C2967-X23RLPC	

Cal Configuration         Local Lipportal         Online Lipportal         Independent         Defendent         De	Liber         Delayers         Online Uggada         Operation         Makes         Diagrada (microstation)         Diagrada (microstation) <thdiagrad< th=""><th>filesight</th><th>Cam</th><th>nera Main</th><th>tenance</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thdiagrad<>	filesight	Cam	nera Main	tenance								
Intel         Reference         Extension           discussion         20.000/2011         Channel Name         Status         IP Address         Channel ID         Portacol         MAC         Immunate Monitor         Reference         IP Address         Channel ID         Portacol         MAC         Immunate Monitor         IP Address         Channel ID         Portacol         MAC         Immunate Monitor         IP Address         Channel ID         Portacol         MAC         Immunate Monitor         IP Address         IP Address         Channel ID         Portacol         MAC         Immunate Monitor         IP Address         IP Addres         IP Addres <th>Carrond         Reboord         Channel Name         Status         IP Addense         Channel ID         Personal         Handle Addense         Model         Reboord Programs           172 Configuration         1         CAM1         2         192.188.84.2         MSIP         1002.168.00027         618.02.4-mmgal D2-mmgal D2-mm</th> <th>Local Configuration</th> <th>-D</th> <th>scal Upgraide</th> <th>Online Upgrade</th> <th>import/Export</th> <th>t Config.</th> <th>Reboot</th> <th>Ress</th> <th>t Diagra</th> <th>osis information La</th> <th>95</th> <th></th>	Carrond         Reboord         Channel Name         Status         IP Addense         Channel ID         Personal         Handle Addense         Model         Reboord Programs           172 Configuration         1         CAM1         2         192.188.84.2         MSIP         1002.168.00027         618.02.4-mmgal D2-mmgal D2-mm	Local Configuration	-D	scal Upgraide	Online Upgrade	import/Export	t Config.	Reboot	Ress	t Diagra	osis information La	95	
Norskynnerit         Norskynner         Norsk	Camera Minisjement         Nature         Status         IP Address         Channel ID         Prodocol         MAC         Firmsare Version         Model         Rabota Progress           72 Configuration         1         CAM1         2         102/188.4.2         MSIP         10221680027         618.6.2 -mugato Vocada         MI-C2977 3-028.0E	Camera											
Bit         Channell         Channell         Producell         MAC         Firmware Mersion         Model         Reboot (Impress)           22 Configuration         10         CAM1         0         192/168/06.42         MSSP         10/2116/20027         61/8.0.2 -may=807-sed-41         MSC-2571-922.8FE	Ref         Channel         Channel         Statu:         IP Address:         Channel ID         Protocol         MAC:         Firmware Municion         Model         Redood Progress:           PIZ Configuration         RI         CAMP         C         192.148.68.42         MSIP         FICE 10500027         91.8.62-images107-mod-M         MAC:COFT 3-02.8 PE	Camera Managemen		6)boot	Refinita								
Configuration:         R3         1         CAM1         O         192/168.68.42         -         MSP         10C215500027         64.8.0.2 +mge187 + mg641         MS-C2971-323.896         -           Asp- dar, and         R2         2         CAM2         O         192/168.68.42         -         MSP         10C215500027         64.8.0.2 +mge187 + mg641         MS-C2971-323.896         -           Asp- dar, and         R2         CAM2         O         192/168.69.195         -         MSP         10C2154059007         64.8.0.2 +mge187 + mg641         MS-C2971-323.896         -         <	M2 CAMGunution       M3       1       CAM1       Image       192.148.64.82       M55P       1002.116000027       61.6.0.2+mug4.87       M6-C2971-92.38.F6       -         mage       M2       CAM2       Image       192.148.64.81       M55P       1002.11600027       61.6.0.2+mug4.87       M6-C2971-92.38.F6       -         Machine       M2       CAM2       Image       192.148.64.81       M55P       1002.11600027       61.6.0.2+mug4.87       M6-C2971-92.38.F6       -         Machine       M2       CAM3       A       192.148.64.818       M55P       1002.116000260       458.25.3-44       M6-C2971-92.38.F6       -       -         Machine       M2       CAM3       A       192.148.64.818       M55P       1002.116009160       458.25.44       M6-C2971-92.38.F6       -         Macronu       M2       S       CAM5       Imp2.148.64.812       M55P       1002.1160.84       31.60.3-a4       M6-C2963-7190A       -         Macronu       M2       G       CAM6       Imp2.148.64.812       M55P       1002.1160.84       31.60.3-a4       M6-C2963-7190A       -         Macronu       M3       CAM8       A       192.148.64.81       M55P       1002.1160.91       45.8.02.41.81+1       M6-	Device Search		Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Reboot Progress
Age:         Q         2         CAAQ         C         102164/0.101         MSDP         1CC214/0284/02         4SE23-64         ME25314/0234/C         -           da         Q         4         CAAA3         A         102186/0156         MSDP         -	magina sudia sudia Majere	PTZ Configuration	52	1	CAM1	0	192.168.68.42		MSSP	CC\$16500027	61.8.0.2-image307-spd-#1	M5-C2971-X23RPE	-
dig         i         CAM3         A         19219640115         -         MSSP         -         -         -         -         -         -         -         -         -         -         -         -         -         MSSP         -         -         -         MSSP         -         -         MSSP         -         -         MSSP         SUB / SUB	Stadia         GC         S         CAMA3         A         192,1868,015         -         M59         - <td>Image-</td> <td></td> <td>2</td> <td>CAM2</td> <td>0</td> <td>192,168,69,101</td> <td></td> <td>MSSP</td> <td>100316282802</td> <td>45.8253-94</td> <td>MS-C5341-323PC</td> <td></td>	Image-		2	CAM2	0	192,168,69,101		MSSP	100316282802	45.8253-94	MS-C5341-323PC	
Second         S2         4         CAMA1         A         1923/864.0166         MSSP           Marce Multiframove         S2         S         CAMS         A         1923/864.0166         MSSP         SSSP         SSSSP         SSSSP         SSSSP         SSSSP         SSSSP         SSSSSP         SSSSSP         SSSSSSP         SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	Numercial         R2         A         CAMAS         A         1923/1466/41/66         MSDP           Camas Mandomary         B         S         CAMAS         A         1923/1466/41/66         MSDP           Camas Mandomary         B         S         CAMAS         A         1923/1466/41/82         I         MSDP           Camas Mandomary         B         CAMAS         C         1923/1466/41/82         I         MSDP         TCC114114/248         318/0.1-84         MSD-2468/41/84         I           Vinit         B         CAMAS         C         1923/1468/41/81         MSDP         TCC114114/278         435/0.2/4/81/41         MSD-2466/43/826         I           Vinit         B         CAMAS         C         192.1468/46/80         MSDP         TCC114114/078         435/0.2/4/81/41         MSD-2667/0238LPC         -           Vinit         B         CAMS         C         192.1468/6/80         MSDP         TCC116114078         435.0.2/4/81/41         MSD-2667/0238LPC         -           Vinit         B         CAMS         C         192.1466/6/8/8         MSDP         TCC116114078         435.0.2/4/81/41         MSD-2667/0238LPC         -	Audia	8	8	CAM3	A.	192.168.69.115		MSSP				
Sect. Maildowno/sect.         S         C.AMS         A         192.146.86.102         MSSP         Incl.11638         313.80.3 + M         MSS-2565-3196A         Incl.11638         MSSP         Incl.11638         313.80.3 + M         MSS-2565-3196A         Incl.11638         MSSP         Incl.11638         MSS-2565-3196A         Incl.11638         MSSP         Incl.11638         MSS-2565-3196A         Incl.11638         MSSP         Incl.11638         MSS-2565-3196A         Incl.11638         MSSP         Incl.116383         MSSP         Incl.116	Same         Same         CAMS         A         19221668.182         I         MSSP         C <thc< th="">         C         C         <thc< th=""></thc<></thc<>	Advanced	58	4	CAM4	4	192,168.69,166		MSSP				
Rope         ©         6         CAM6         ©         1923/864/0432         MSGP         1023/811/2489         312.03.44         A65/226531764         -           VM         ©         7         CAM7         ©         1023/864/2634         -         MSGP         1023/8253100         433/2.376-1-05         MSC23663-340,07         -           VM         ©         8         CAM8         A         1023/8643-024         -         MSGP         10023/803/803         -         MSGP         - <t< td=""><td>Orrage         6         CAM6         O         192.164.64.162         MS2P         1CC31613A8P         31.8.0.1-44         MS-C2863-3179A         -           VM R         7         CAM7         O         192.164.64.162         MS2P         1CC31613A8P         31.8.0.1-45         MS-C2863-3179A         -           VM R         0         192.164.64.162         MS2P         1CC31613A8P         45.9.2.79-H-65         MS-C2867.4028HC         -           VM R         0         CAM8         A         192.164.69.00         MS3P         TCC31613A8P         45.8.0.2.48H+1         MS-C2867.4023H2PC         -</td><td>Camera Maintenance</td><td>52</td><td>5</td><td>CAMS</td><td>A</td><td>192.158.69.182</td><td></td><td>MSSP</td><td></td><td></td><td></td><td></td></t<>	Orrage         6         CAM6         O         192.164.64.162         MS2P         1CC31613A8P         31.8.0.1-44         MS-C2863-3179A         -           VM R         7         CAM7         O         192.164.64.162         MS2P         1CC31613A8P         31.8.0.1-45         MS-C2863-3179A         -           VM R         0         192.164.64.162         MS2P         1CC31613A8P         45.9.2.79-H-65         MS-C2867.4028HC         -           VM R         0         CAM8         A         192.164.69.00         MS3P         TCC31613A8P         45.8.0.2.48H+1         MS-C2867.4023H2PC         -	Camera Maintenance	52	5	CAMS	A	192.158.69.182		MSSP				
EZ         7         CAMP         ●         19214848/3204         -         MSDP         432/2379-1-05         MSC-2486-348/80C         -           ext extrem         Ø         CAMB         A         19231848/3181         MSSP         -	Marting         Mill         P         CAMP         O         193.1484/2014         MISSP         TECTINE/RESIDE         453.0.31+rl-o5         Mic-colle-skalar	0	82	6	CAM6	0	192.168.69.162		MSSP	100016112489	32.8.0.1-a4	MS-C2962-TEPA	
Vot         Q2         B         C.A.M8         A         192.168.69.09         MISSP         -           term         Q2         9         C.A.M9         Q2         192.168.69.60         -         MISSP         10C.01401H07E         454.6.02.4.091H1         MIS-C2697.3228LBC         -	Const         P         Is         CAMB         A         192.168.89.81         Assp         -	Skorage		7	CAM?	0	192,168,69.204		MSSP	100316285100	45.7,0.79-r1-o5	MS-C2865-X4RFC	
tem	QUEERE Q CAMINE Q 192148.69.40 - M453P TCC11611407E 45.40.2.4481+1 M5-C2667.9238LBC	Event	8	8	CAMB	A.	192.168.89.161		MSSP				
		System	12 E	9	CAM9	0	192.168.69.60		MSSP	1CC31611407E	45.8.0.2-LPR1+1	M5-C2967-X23RLPC	

Step 2. Click "Reboot" button to restart the selected channels.

#### Reset

Step 1. Choose the corresponding channel you want to reset.

**Step 2.** Enable the "Keep the IP" option to keep the IP configuration when resetting the selected channels. And enable the "Keep the User" option to keep the User configuration when resetting the selected channels.

Step 3. Click "Reset" button to reset the selected cameras to factory default settings.

lilesight	C	amera	a Mainte	enance								
al Configuration	1.1	Local L	lpgrade	Online Upgrade	import/Export	rt Config_	Rebort	Re	ari Diagra	avis information Lo	91	
nera	1	Keen th	e IP. Configur	ration								
ana Managoment		Kana th	e Lines forderer	mations								
ice Search		NEED IN		THEORY .								
Configuration		Rese	ŧ	Refresh								
pe.	2		Chinnel	Channel Name	52Mus	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Result Program
a		8	1	CAMI	0	102.168.66.42		MSSP	100316500027	61.8.0.2-image 107-spd-a1	MG-02971-X23RPI	
erced		8	2	CAM2	0	192,168,69,161		MSSP	100316282602	45.8.25.3 w4	MS-C5341-X23PC	
sen Maintenance		2	3	CAMS	A	192.168.69.135		MSSP				
age		88		CAMA	4	192.168.69.166		MSSP				
		10	5	CAMS	Δ.	192,160,69,182		MSSP				
π.		8	6	CAME	0	192.168.69.162		MSSP	100316112AB9	31.8.0.3+#4	MIS-C2962-TEIPA	
em		8	<i>J</i> .	CAM7	0	192.168.69.204		MISSP	1CC3162851CC	#5.7.0.79-(1-65	MS+C2856+X4RPC	
		2	0	CAMB		192.168,89.761		MSSP-				
		52	ġ.	CAM9	0	192.168.69.60		MSSP	10C31611407E	45.8.0.2-LPR1 +T	MS-C2967-X23RLPC	

### **Diagnosis Information**

Step 1. Choose the corresponding channel you want to diagnose the information.

Step 2. Click "Backup" button to export the diagnosis file .

Local Configuration         Local Upgrade         Derive Upgrade         memory Disport Config.         Retort         Disport         Logs           Concess         2         Retorn         <	Local Upgrade         Onlive Upgrade         Onlive Upgrade         Network         Network         Dags being Merstacht           arrenz         2         Churred         Name         Dags being Merstacht         Dags being Merstacht         Dags being Merstacht         Mach         Permaante Merstacht         Mach         Permaante Merstacht         Mach         Permaante Merstacht         Mach         Permaante Merstacht         Mach	Milesight		Camer	a Maint	enance								
Control         2         Description           Control         0         Control         0         PAddress         Channel ID         Prodocol         MAC         Firmmana Version         Model         Backage Programs           PIC Configuration         0         1         CAM1         0         192.186.8.42         MSSP         1000100027         61.86.2+mages187:nd=31         MS-C2971.90231874         -           Mader         2         CAM2         0         192.186.8.42         MSSP         1000100276         61.86.2+mages187:nd=41         MS-C2971.90231874         -           Mader         2         CAM2         0         192.186.8.42         MSSP         1000100276         61.86.2+mages187:nd=41         MS-C2971.90231874         -           Mader         2         CAM2         0         192.186.8.42         MSSP         1000100276         45.825.3-re4         MS-C2971.90231874         -           Adverted         3         6         CAM3         4         192.186.8.42         MSSP         10001000276         45.825.3-re4         MS-C2971.90231874         -           Socrap         5         CAM3         4         192.186.8.4182         MSSP         10001181174289         318.8.1.4         -         -<	aniral         2         Deckop         Refresh           aniral Managumani twoka Sasah         1         Colume         Status         IP Address         Channel ID         Protocol         MAC         Firmsante Wandom         Model         Backagi Phogenesi           12         Colume         Channel         Channel         Channel         Dial Address         Channel ID         Protocol         MAC         Firmsante Wandom         Model         Backagi Phogenesi           12         Colume         Channel         Channel         Dial Address         Channel ID         Protocol         MAC         Firmsante Wandom         Model         Backagi Phogenesi	Local Configuration		Local	Upgrade	Online Upgrade	import/Exp	ort Conlig	Reboot	fin	Nit Diagna	sis Information	195	
Cannex Massgement         Produce         NAC         Finnesse Version         Model         Backagi Progress           Diric Selech         1         CANnoll Name         Statis         IP Address         Channel ID         Produces         MAC         Finnesse Version         Model         Backagi Progress           Diric Selech         1         CAN1         ©         192.168.A42         MSEP         TCC116030027         61.80.2+mugalID*ugd=A1         MS-C2971492.B184         -           Mage:         III         CAN1         ©         192.168.A42         MSEP         TCC116030027         61.80.2+mugalID*ugd=A1         MS-C2971492.B184         -         -         MSEP         -         MSEP         -         -         MSEP         -         MSEP         -	America Managements         Example Transmit         Example Transmit         Model         Example Transmit           1000 Stample         1         CAMPI         0         192.168.66.42         Model         Model         Exatage Transmit         Model         Exatage Transmit	Camera	2	Back		Referet								
Davide Statech         1         Channell         Channell Name         Status         IPA Address.         Channel ID         Protocol         MAC         Firmuare Version         Model         Backagi Progress.           PTC Configuration         II         CAM1         III         182.188.48.2         MSSP         TOCE1600027         61.8.62+mpact87 rad-a1         MS-C2971-923874	Image: charmed Sameh         Image: charmed Name         Charmed Name         Charmed D         IP Address         Description         Model         Backag Progress           12         Configuration         1         CAM1         C         192.166.642         MSSP         10CE16500027         61.8.0.2-image107-upd-s1         Mic2097.192.1874         -           12         CAM2         C         192.166.642         MSSP         10CE16500027         61.8.0.2-image107-upd-s1         Mic2097.192.1874         -           12         CAM2         C         192.166.642         MSSP         10CE16500027         61.8.0.2-image107-upd-s1         Mic2097.192.1874         -           12         C         CAM2         A         192.166.6166         -         MSSP         10CE16500027         61.8.0.2-image107-upd-s1         Mic2097.192.1874         -           12         CAM3         A         192.166.6166         -         MSSP         -         -         -         -           12         CAM9         C         192.166.6166         -         MSSP         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -<	Camera Management												
PT2 Configuration         Image         1         CAM1         Image         102 (184.04.02)         MSDP         102 (186.02)         41.88.2-image.877-rod-34         MI-CONT-30238PE         -           Image         I	Image:       1       CAM1       Image:       MSS       10CE1600022       61.80.2+mage:R7-qode)       MC2071-02884       -         sage:       A       CAM2       Image:       -       MSS       10CE1600022       61.80.2+mage:R7-qode)       MC2071-02884       -         udia       Image:       -       MSS       10CE1600022       61.80.2+mage:R7-qode)       MC2071-02884       -         udia       Image:       -       MSS       10CE1600022       61.80.2+mage:R7-qode)       MC2071-02884       -         udia       Image:       -       MSS       MSS       -       MSS       -       -         udia       Image:       -       MSS       -       MSS       - <t< th=""><th>Device Search</th><th>1</th><th></th><th>Channel</th><th>Channel Name</th><th>Status</th><th>IP Address</th><th>Channel ID</th><th>Protocol</th><th>MAC</th><th>Firmware Vecsion</th><th>Model</th><th>Backsup Progress</th></t<>	Device Search	1		Channel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Vecsion	Model	Backsup Progress
Image:         Image:<	Magin         IP         IP         CAM2         IP         MS2F         TCC31488402         458.25.344         MFC5341-3238C         -           usia         iii         CAM3         A         192.18484135         -         MS2F         TCC314884027         458.25.344         MFC5341-3238C         -         -           dweeded         IP         III         CAM4         A         192.18484135         -         MS2F         - <td< td=""><th>PFZ Configuration</th><td></td><td>52</td><td>1</td><td>CAM1</td><td>0</td><td>192.168.68.42</td><td></td><td>MSSP</td><td>1CC\$16500027</td><td>61.8.0.2 image307-spd-#1</td><td>M5-C2971-X23RPE</td><td>-</td></td<>	PFZ Configuration		52	1	CAM1	0	192.168.68.42		MSSP	1CC\$16500027	61.8.0.2 image307-spd-#1	M5-C2971-X23RPE	-
Autor         Image: Caluary Autor         Image: Caluary Autor         Image: Caluary Autor         MSSP         Image: Caluary Autor         Image: Caluary Autor         Image: Caluary Autor         Image: Caluary Autor         MSSP         Image: Caluary Autor         Image: Caluary Aut	uda     2     4     CAM3     A     192,1848,118     -     M55P     -     -       abserd     10     12,104,116     A     192,1848,118     -     M55P     -     -       abserd     12     3     CAM5     A     192,1848,118     -     M55P     -     -       abserd     12     5     CAM5     A     192,1848,118     -     M55P     -     -       abserd     12     6     CAM5     O     192,1848,118     -     M55P     102,1181,1848     31,45,1,44     M5,6292,178A,     -       abserd     12     6     CAM5     O     192,1848,118     -     M55P     102,1181,1848     31,45,1,44     M5,6292,178A,     -       abserd     7     CAM7     O     192,1848,129     -     M55P     102,1181,1848     31,45,1,44     M5,629,379,41,45     M5,629,67,323,119,62     -       abserd     12     CAM8     Q     192,164,66,60     M53P     100,2111,1407E     45,40,24,481,14     M5,626,73,233,129,C     -       abserd     192,164,66,60     192,164,66,60     M53P     100,2111,1407E     45,40,24,481,14     M5,626,73,233,129,C     -	Image		2	2	CAM2	0	192,168,69,161		MSSP	100336282802	45.8.25.3-#4	MS-C5341-X23PC	
Adversed         D         4         CAMA         As         192,166.66,166         MSSP           Americal Meldinaware         D         5         CAMA         As         192,166.66,166         MSSP           Americal Meldinaware         D         6         CAMASI         As         192,166.66,182         MSSP         International Meldinaware           Origina         D         6         CAMASI         O         192,166.66,182         MSSP         TCC2161112A289         31.8.0.1.44         MSC-2667.9290.1794.         -           Origina         D         CAMAI         O         192,166.86,182         MSSP         TCC21612132489         31.8.0.1.44         MSC-2667.9290.1794.         -           Wett         D         B         CAMAI         O         192,166.86,181         MSSP         TCC21612143210         MSC-2667.9238LPC         -           Wett         D         CAMAI         A         192,166.69,60         MSSP         TCC11611407E         45.8.0.2.481 H1         MSC-2867.9238LPC         -           Mettry         D         CAMAI         D         International MSSP         TCC11611407E         45.8.0.2.481 H1         MSC-2867.9238LPC         -	Ausred         R         CAMP         A         192/1464/166         MSSP           amery Maidemanne         S         CAMPS         A         192/1464/166         MSSP           corage         S         CAMPS         O         192/1464/182         MSSP           wert         O         S         CAMPS         O         192/1464/182         MSSP           wert         O         S         CAMPS         O         192/1464/182         MSSP         1000000000000000000000000000000000000	Rudio		88	4.1	CAMI	4	192.168.69.135		MSSP				
Camera Ministremush         IZ         S.         CAM         M         1923/88.81/82         MSSP           Strange         S         CAMS         S         1923/88.81/82         MSSP         Strange	Matrix Matrixouxit         S         CAMS         A         102/M84/M22         MISSP         INSP         Insp           92         5         CAMS         ©         102/M84/M22         MISSP         INSP         Insp <th>Advanced</th> <td></td> <td>88</td> <td>- 4</td> <td>CAM4</td> <td></td> <td>192,168.69,166</td> <td></td> <td>MSSP</td> <td></td> <td></td> <td></td> <td></td>	Advanced		88	- 4	CAM4		192,168.69,166		MSSP				
Sorage         Ø         CAM6         Ø         102.766/0.1432         MSGP         102.7161/0.2486         31.80.3-a4         464-C2983-7194A         -           Sorage         Ø         7         CAM7         Ø         192.166/0.1432         MSGP         102.7162/0.2486         ASS.2379-r1-65         MS-C2069-5048PC         -           Event         Ø         CAM8         Å         192.168/0.0487         MSS.P         -	Orage         6         CAM6         O         102.164.04.162         MISSP         TCC11611A249         31.80.3-44         Aft-2805.11940         -           Writ         IZ         7         CAM7         O         102.164.04.02         MISSP         TCC11611A249         31.80.3-44         Aft-2805.11940         -           writ         IZ         7         CAM7         O         102.164.04.02         MISSP         TCC11611A249         31.80.3-44         Aft-2805.71940         -           Vite         IZ         7         CAM7         O         102.164.04.02         MISSP         TCC11611A249         31.80.3-44         Aft-2805.71940         -           Vite         IZ         CAM8         A         102.164.04.00         MISSP         TCC11611A07E         45.80.2.4.PE1+1         MIS-C2807.9238LPC         -           Vite         9         CAM89         O         192.164.04.00         MISSP         TCC31611407E         45.80.2.4.PE1+1         MIS-C2807.9238LPC         -	Camera Maintenance		- 12	5	CAMS	•	192.168.69.182		MSSP				
Venet         7         CAMP         Q         162.184.842.04         -         MSEP         102.184.03.00C         45.74.379-11-05         MSE-2886-344.87C         -           Evenet         B         CAMB         A         192.168.83.181         -         MSEP         -	M         7         CAMP         P         192.148.49/204         MS3P         102.148.8910C         453.0.79-11-65         Ad5-22.466.34AB/C         -           Vote         B         CAMP         A         192.148.49101         MISSP         - </td <th>Storage</th> <td></td> <td>88</td> <td>6</td> <td>CAME</td> <td>ø</td> <td>192.168.69.162</td> <td></td> <td>MSSP</td> <td>100316112A89</td> <td>32.8.0.1-64</td> <td>MS-C2962-TFIRA</td> <td></td>	Storage		88	6	CAME	ø	192.168.69.162		MSSP	100316112A89	32.8.0.1-64	MS-C2962-TFIRA	
Event         Ø         a         CAMB         A         192.186.89.01         Assp.         -           System         Ø         CAMB         Ø         192.186.89.40         -         Assp.         -	Avect         D         B         C.AVAR         A         192/164.69.60         Asso           vetem         9         C.AMS         0         192/164.69.60         MSSP         100/11/167E         45.60.2.4PR1+1         MS-02567-02384/PC			20	7	CAM?	0	192,168,69,204		MSSP	100316285100	45.7.0.79-r1-o5	MS-C2865-X4RPC	
System	ytom Q 9 (CAM9 Q 192148.69.60 - M52P 1021191M07E 45.60.2,4481+1 M5-C2697.3238LIpC -	Event		8	8	CAMB	A	192.168.89.161		MSSP				
		System		22	9	CAMB	0	192.168.69.60		MSSP	1CC31611407E	45.8.0.2 (LPR1++)	M5-C2967-X23RLPC	

Logs

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

Step 1. Choose the corresponding channel you want to search for logs.

Step 2. Select the Main Type, Sub Type, Start Time and End Time

Step 3. Click "Backup" to export searched logs to media device.

esight Carr	nera 1	Mainte	nance								
onfiguration	ocal Lipg	grade	Online Upgrade	mport/Export	Config_	Rebort	Ĥn	et Diegra	avis indemnation	gs	
Management Sub Ty each Start T End Te	ype pe ime		All Types All 2022-10-17 00:00:00 2022-10-17 23:59:59								
3	Backup		Refnish								
d 1 8	a	turnel	Channel Name	Status	IP Address	Channel ID	Protocol	MAC	Firmware Version	Model	Backup Progress
Maintenance		Ť.	CAMI	0	192.168.68.42		MSSP	100816500087	61.8.0.2-image107-1pd-a1	MS-62971-K23RPE	
		2	CAM2	0	192.168.69.161		NISSP	100316282502	45.8.25.1-64	MS-C5341-3023PC	
S		3	CAM3	Δ.	192,168,69,135		MSSP				
		4	CAMA	4	192.168.89.165		MSSP				
2		5	CAMS	4	192.168.69.182		MSSP				
2		0	CAMO	0	192.168,69,162		MSSP	1CC316112A89	83,8.0.3-e4	MS-C2962-TFIRM	
2		7	CAM7	0	192.168.69.204		MSSP	100316285100	45.7.0.79+11-65	MS-C2866-X4RPC	
8		8	CANts	•	192,168.89.161		MSSP				
52		9.	CAM9	0	192.168.89.60		MSSP	100336114078	45.8.0.2-LPR1-r1	MS-C2967-X23RLPC	
		9.	CAMS	0	192.168.69.60		MSSP	100336114078	40.0.024981+1	MS-C2967-S231QPC	

## 3.7 Storage

#### **Preparation for Record**

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

=	Milesight	Disk Manageme	ent							
	Local Configuration	HOD Management	Network Disk German	ettings						
	Camera	E Pot	Vendor	Statun	Total	free	Prequirty	lype	Group	Loin Defete-
Ð.	Storage	□ 4	WDC WD10ERX-89N74ND	Warning	0012160	0.	N/W	Local	1	1 .
ſ	Video Resord	Total Capacity	931.5%3B							
L	Snapshot	Available Capacity	0	1						
ŀ	Disk Management	Refresh Initia	line -							
L	RAID									
l	Storage Mode									
ŀ	Auto Barlup									
	Event									
P	System									
l		1								
l										
L										

#### Step2. Ensure that the HDD has sufficient storage space.

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

=	Milesight	Disk Manageme	ient	
	Local Configuration	HDD Management	Nichterschilde	
No.	Camera	Recycle Mode	Endble	
9	Storage		Distriction	
Taylor	Video Record	Saw		
	Sinaphot			
	Eale Management			
	Starwy-Made			
30	Auto Barlay			
X. Second	Event	1		
212	System			
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UX.				
- tear				
G+				
Lopest				

**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.

=	Milesight	Video Record
	Local Configuration	Riscond Schedule Timond Sentings
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). 	Storage	Continieus 2
	Video Roant	
۹.	Snapshat	Sun 6 7
	RAID	Mon 9
4	Storage Mode	Tae 11
٢.	Auto Bankan	Weight C 13 C 14 16 19 20 22 2
*	System	Tinu 16 16 17 17 17
r		20 2 4 6 8 10 12 14 16 18 20 12 2 Pri
		5 2 4 8 8 10 12 14 16 12 12 2 5 4
l		8 2 4 6 8 30 12 14 16 38 20 22 2 Holdey
ł.		
**		Capy te Canwa
		Save

#### Step 2.Set record schedule.

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".



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

o :	2 4	6	8	× 02:08-24:00 Delete   Save	18	20	22	24
0 3	2 4	6	8	10 02.00 24.00 16	18	20	22	24

Click <sup>[6]</sup> to copy time setting to other days.

0	2	4	6	8	10	12	Сору То	□ Seclect All		24
0	2	. 4	6	. 8	10	12	□ Sun □ Wed	□ Mon □ Thu	□ Tue □ Fri	24
0	2	4	6	. 8	10	12	Sat	🗌 Holiday		24
							ОК	Cancel		

#### Step 3. Click [Copy to Camera] to copy the same record configuration to other channels.

```
      Copy to Camera

      ■ All

      ■ 1
      ■ 2
      3
      4
      5
      6
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      10
      11
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      61
      62
      63
      64
```

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

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



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).



#### **Record Settings**

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

Milesight	Video Record
Local Configuration	Preced Schedule (Preced Setting)
Canena Sorage Volucionad Sorage Solandhos Solandhos Solandhos Maria Maria Solandhos Solandhos Sola	Clarenti   Pie Recori   Recori Showing Type   Pieror Showing Type   Nait   Datadas

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.

No matter whether NVR has recording schedule or not, camera will do ANR recording and then retrieve back to NVR after reconnection.

## 3.7.2 Snapshot

	Milesight	Snapsh	ot												
	Local Configuration	Snapshol	Sched	where a	Ships	not Ser	lings								
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	Storage	Continuou	s	100		Select A		Over	AU						
	Video Rosord				5										
F	Shapshat	Sun	0	2	4		0	10	12	14	18.	-30	20	-22	24
	RAID	Mon	0	- 24	4		0	10	12	14	16	10	-20	-22	24
	Storage Mode	The	0	2	4		п	10	12	14.	18.	38	-20	22	-24
L	Auto Bankup	Wind	0	2	4	6	Ū	10	12	14	15	18	20	22	-24
	Event	Tint	0	ŝ	4	8	8	10	15	34	16	18	20	-	-24
	System	-	0	2	4	8	8	10	12	ы	16.	36	20	22	24
			œ.	2		8	8	10	jır.	14	18	.18	.100	- 72	- 24
		246	8	z.	4	£.	Ŧ	10	12	14	16	10	20	22	24
		Holiday													
		Crecy is Car	-												
		Save													

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

#### **Snapshot Schedule**

#### Step 1.Select channel.

#### Step 2.Set snapshot 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. 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".

al Configuration       Submitted Schulde       Sub	N	lilesight	Snapsh	ot												
Canona         Elementa         E           Strago         Contratuenta         Statica AS         Canona AS		Local Configuration	Snasshot	Schend	ule -	Ship	unit Ser	ings .								
Storp         Contributi         Solution         Contributi         Solution         Contribution         Co		Camera	Channel			1				÷						
Video Record       2000       1       2       1       6       10       12       14       14       14       14       2       2       1       1       1       10		Storage	Continuous		18		Select A	1	0.0	AU						
Conception         P         2         4         6         0         10         12         14         10 <sup>1</sup> 20         20         20         20         20         10         10         10 <sup>2</sup> 10         10         10 <sup>2</sup> 10         10		Video Record														
Sold Magements     P     Z     4     8     4     10 <td></td> <td>Shapshat</td> <td>Sun</td> <td>-</td> <td></td> <td>- 1.</td> <td></td> <td>0</td> <td>19</td> <td>12.</td> <td>- 13.</td> <td>10</td> <td>. 10</td> <td>20</td> <td></td> <td>1</td>		Shapshat	Sun	-		- 1.		0	19	12.	- 13.	10	. 10	20		1
Congret Made     3     2     2     4     6     0     10     12     14     16     14     20     22     21       Suise     0     2     4     6     0     10     12     14     16     10     22     22     24       System     0     2     4     6     0     10     12     14     16     10     22     23       System     0     2     4     6     10     12     14     16     10     12     24       System     0     2     4     6     10     12     14     16     10     12     24       System     0     2     4     6     10     12     14     16     10     12     24       No     0     2     4     6     10     12     14     16     10     12     24       No     0     2     4     6     10     12     14     16     10     12     24       No     1     2     1     10     12     14     16     10     12     24       Sol     1     2     2     10     10     10		Dick Management	Mon	0	1	4	. 8	0.0	ţ0	17	Į4	16	10	20	122	.24
Auto Environ       Wed       0       Z       4       6       0       10       12       14       15       17       20       22       24       Auto 10       10       12       14       15       17       20       22       24       Auto 10       12       14       16       10       12       14       16       10       12       21       14       16       10       12       21       14       16       10       12       21       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       10       12       14       16       1		Srawge Mode	Tax	9.1	2	- ¥.	. A.	- T	10	12.	- 0.5	18.1	- 18	21	22.	24
Event         Press         Press <th< td=""><td></td><td>Auto Barkup</td><td>100.0</td><td>0.</td><td>Z.</td><td>4</td><td>8.</td><td>8</td><td>in.</td><td>12</td><td>18</td><td>- 16</td><td>10</td><td>20</td><td>-22</td><td>24</td></th<>		Auto Barkup	100.0	0.	Z.	4	8.	8	in.	12	18	- 16	10	20	-22	24
System         Thui         E         2         4         6         8         10         12         14         36         10         20         22         23           Yri         V         V         V         V         V         V         V         V         V         V         V         VI		Event	FORD	0	÷.	÷.	.6	8	10	13	14	18	. 16	-20		24
Pvi         x         K         B         T <tht< th="">         T         <tht< th=""> <tht< th=""></tht<></tht<></tht<>		System	TIM.	3	2	4.		8	10	12	13	16	36.	20	22.	24
Suit         2.         4.         6.         9.         10.			10		Ŧ	5	· E -	e.	10	112	н	- 18	18	- 201	~~~~	- 24
Todage Convex			Sat						in.	10		18		-	- 14	
Copy to Convex			Holiday.				-		10	14		10	10	-	-	
Copy to Canava -																
Save			Capy to Care	pere -												
			Sale													

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

0	2	4	6	8	02:08-24:00	18	20	22	24
					Delete   Save				
0	2	4	6	8	10 02.00 24.00 16	18	20	22	24

Click to copy time setting to other days.

0	2	4	6	8	10	12	Сору То	□ Seclect All		24
0	2	. 4	6	8	10	12	□ Sun □ Wed	□ Mon □ Thu	🗌 Tue 🗆 Fri	24
0	2	4	6	8	10	12	Sat	🗌 Holiday		24
							ОК	Cancel		

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

Copy to Camera				
<ul> <li>All</li> </ul>				
<b>☑</b> 1 <b>☑</b> 2 🔲 3	□4 □5	6 7 8	9 0 10 0 11 0 12 0 13 0 14 0 15 0 16	
□ 17 □ 18 □ 19	20 🗆 21		4 _ 25 _ 26 _ 27 _ 28 _ 29 _ 30 _ 31 _ 32	
□ 33 □ 34 □ 35	36 🗌 37	7 🗆 38 🗌 39 🗌 40	0 _ 41 _ 42 _ 43 _ 44 _ 45 _ 46 _ 47 _ 48	
□ 49 □ 50 □ 51	□ 52 □ 53	3 🗆 54 🗆 55 🗆 56	6 _ 57 _ 58 _ 59 _ 60 _ 61 _ 62 _ 63 _ 64	

#### **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.



## 3.7.3 Disk Management

You can check Disk status, add Network Disk and set Recycle Mode 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 M	lanagem	ent									
HDD Ma	anagement	Network Disk	General Se	ttings							
	Port	Vendor		Status	Total	Free	Property	Туре	Group	Edit	Delete
	2	ST1000VX000-1ES	162	Normal	931.51GB	0	R/W	Local	1	1	-
Fotal Capacity 931.51GB											
Available Capacity 0											
Refres	sh Init	ialize									

#### **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.

=	Milesight	Disk Management
	Local Configuration	HDD Markagment. Network Dob General Settings
1.44.1	Camera	This Name
9	Storage	The New York
Playhold	Video Record	IP Address
=	Snapshot	Directory
Selected and	Disk Menegyment	
Ø	RAID	Add Batch Add Davide
-14	Storage Mode	No. Dink Edit. Delitio Did Name IF Address Directory Type
*	Auto Eastup	Rote: It a gisky to the data lakery if theo mustric handweath is occupied by RAS.
Settings	Event	
:	System	
-		
UX.		
Trank.		
Er.		
Argent		

Edit the Property by clicking *After that the storage device will be ready.* 

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

You can add it manually or search local NAS by clicking "Batch Add".

	Netw	ork Disk Searc	h		
Type NAS 🗸 Serv	er Address			Search	
		File Path			
			Add	Cance	el

#### **General Settings**

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

eSATA Function: Both storage and backup are available.

**Note:** eSATA Function is only available for NVR 8000 Series.

=	Milesight	Disk Managem	ent	
9	Local Configuration	HDD Management	Network Disk	General Settings
	Camera	Recytle Mode	Enable	
9	Storage	eSATA Function	Stovage	28
-	Video Record	Same		
	Disk Management			
2	RAID			
HAL.	Auto Bankuy			
*	Event			
쌺	System			
-				
F#				
rent				

## 3.7.4 RAID

Milesight RAI
Local Configuration RAID M
Camera Physics
Storage
Video Rosord
Snapshot
-Disk-Massagipment
Stimuje Mode
Auto Barluy

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



Step1. Enable RAID. NVR will reboot after enabling.

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

WDC WD10E/RX-89X74Y0 Drinitialized 931,51G8 Local  Create RAID  RAID Name RAID Type RAID 0  HDD Port RAID 0  HDD Port RAID Create RAID  Delete Task	LSTGE Local 💭	zed 931.51GB	Uninitialized				
RAID Name RAID RAID Type RAID 0 HDD Port 27 3 274 Name Physical Disk RAIE RAID Capacity 2.729TB d Delete Task		Create PAID	Contraction	WD10EJRX-89N74Y0	WDC WD1	4	Z
RAID Type     RAID 0       HDD Port     2 3       HDD Port     2 3       Vame     Physical Disk       RAID Capacity     2.729TB       d     Delete		Create MID	e RAID	RAID Name			
HDD Port D 3 D 4 Name Physical Disk RAID RAID Capacity 2.729TB d' Delete Task	Quick Create Creat	)	RAID 0	RAID Type			
Name Physical Disk RAID RAID Capacity 2.729TB d Delete Task		☑ 4	23	HDD Port			array
	d Detete Task	В	city 2.729TB	isk RAID RAID Capacit	Physical Disk	Name	No.
	_						
	_						
Create	Cascal	Create Cancel				_	_
	Cancer	Calle				ve	Sav

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

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

#### **Note:**

- 1. RAID only available for 4K H.265 NVR 7000/8000 Series and 4K H.265 PoE NVR 7000 Series.
- 2. Support more than 16TB capacity for creating the RAID, and the RAID data can be read and written normally. This meets users' storage requirements for larger capacity.
- 3. Quick Create only for RAID5.

### 3.7.5 Storage Mode

#### Quota

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

filesight	Storage Mode					
ocal Configuration	Questa	Group				
amera	Quota	Disable	181			
Storage	Charmel					
Video Record	Used Record Capacity (GB)	357				
Snapshot	Used Snapshot Capacity (G8)	2				
isk Managyment	Record Quista (GB)	0	4-16384			
RAID	Snapshot Quota (G8)	0	4-16384			
Storage Mode	Note: 058 means no quota, wi	use priority is lower that	n the one has quota.			
Auto Backup	Forma 10 Carineta					
vent	copy to canara					
lystem	Save					
	Channel Oha	nnol Namu	Used Record Capacity (GB)	Used Snapshot Capacity (GB)	Record Quota (GB)	Snapshot Quota (GB)
	1.	CAM1	397	2	D	Q.
	i.	CAM2	9	2	0	2
	1	CAM3	1	1	.0	9
		EAM4	4	1	Ø	D
	5	CAMS	1	3	0	0
				2	- TX -	
	-0	CAMS	275			0

Step 1. Enable Quota.

Quota	Enable	$\sim$

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.

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

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

#### Group

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

=	Milesight	Storage Mode	
	Local Configuration	Quenta	Grup
	Camera	Genuer Meula	Disple
9	Storage	Groue	
Phyladia	Video Resord	Enternal	an Au
-	Snapshot		
Balance .	Disk Management	and the second s	
Ø	RAID		
marke	Storage Mode	Mole This i in set and int	a convergioure al Conscinientinge anter Genue annexed
*	Auto Barkup		
Settings	Event		
柴	System		
-31			
UK.			
Arms.			
G+			
Arrent			

Step 1. Enable Group.

Group Mode	Enable	$\sim$
are ap mean		

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

Disk Management	

**Note:** You can add 16 groups at most.

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

Quota	Group
Group Mode	Enable
Group	2
Channel	
	33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
	_ 49 _ 50 _ 51 _ 52 _ 53 _ 54 _ 55 _ 56 _ 57 _ 58 _ 59 _ 60 _ 61 _ 62 _ 63 _ 64
Save	

## 3.7.6 Auto Backup

=	Milesight	Auto Backup		
	Local Configuration	Auto Backup Disable		
-	Camera	Storage Device Enable		
<b>,</b>	Storage	Available Capacity		
	Video Record	Backup Start Time Everyday		
	Snapshot Disk Manusperment	Backup Channel II All		
	RAID	日1日2日3	四4 四5 四6 回7 四4 回9 四10 四11 回12 回13 回14 回15 回16	
	Storage Mode	Backup Stream Type Primurg Stream		
	Auto Backup	Backup File Type		
	Event	Recycle		
	System	Backup Status		
	-	Last Successful Backup		
		Saw		
		New Testianst 24 Issuer' want will be backed a	http	

#### Step 1. Enable Auto Backup.

Auto Backup	Enable	$\sim$

Step 2. Select Storage Device as USB Device, NAS or eSATA disk.

Storage Device	Select Device	$\sim$	

**Note:** eSATA disk is only supported on NVR 8000 series.

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 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 the storage device.

#### **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.

## 3.8 Event

## 3.8.1 Motion Detection

	Milesight	Motion Detection
	Local Configuration	Changel Event
	Camera	Channel 4
	Storage	Motion Detection 50 Region Settings
	Event	
	Mislion Detection	
	Webleo Lons	
	Alderni Diulpid	
<	Exception	
ngs	VCA.	
9	System	
		Region Set At Dekite All
		Region Settings
		Servitivity
rein)		Action Edit
		Cocy to Cumus
		Save

#### **Step 1. Enable Motion Detection.**

Select channel , Sensitivity and click  $\boxed{2}$  to enable Motion Detection.

Motion Detection		
Channel Event		
Channel	1	$\sim$
Motion Detection	$\checkmark$	

#### 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.

#### Step3. 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 warning when event is detected.

The user can set effective schedule as following two ways:

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

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

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



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

The user can set effective schedule as following two ways:

 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.
 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.


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

User can set effective schedule as following two ways:

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



And you can add PTZ Action by clicking 💷.

PTZ Action:					
Channel Select Channel	✓ Action Type	e Preset 🗸	No. 📉		
Add D	elete				
Charact	Edit	Delete	Action Type	No	
	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.

		Action		
Audible Warning Emai	I Linkage PTZ Action	Alarm Output	White LED	Others
Alarm Output No. Alarm Name Add Alarm O Alarm O	1           2           3           4           CH1_1           CH1_2           CH2_1           CH2_1           CH2_1           CH2_1           CH3_1           CH3_1           CH4_2           CH5_1           CH5_2           CH6_1           CH5_2           CH6_1           CH9_1           CH9_2           CH10_1           CH12_1           CH12_1           CH12_1           CH12_1           CH13_1		Edit Delete	

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

The user can set effective schedule as following two ways:

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.

		Acti	ion		
udible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Select	All Clear All				
Sun	0 2 4	6 8 10	12 14 16 18	20 22 24	
Mon	0 2 4	6 8 10	12 14 16 18	20 22 24	
Tue		6 8 10	12 14 16 18	20 22 24	
Wed	0 2 4	6 8 10	12 14 16 18	20 22 24	
Thu	0 2 4	6 8 10	12 14 16 18	20 22 24	
Fri	0 2 4	6 8 10	12 14 16 18	20 22 24	
Sat Holiday	0 2 4	6 8 10	12 14 16 18	20 22 24	
Triggered I White LED:	nterval 20s				
					K <u>Canc</u>

And you can add White LED by clicking 💷.

Channel Select Channel	✓ Flash Mode	Twinkle	Flash Time —0—3	- Reset	
Add De	elete				
Channel	Edit	Delete	Flash Mode	Flash Time	
				ОК	Cancel

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

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

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



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

## Step5. Click[Copy to Camera] and *sto copy the same configuration to other channels.*

Copy to Camera
☑ 1 ☑ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9 □ 10 □ 11 □ 12 □ 13 □ 14 □ 15 □ 16
<u>33</u> <u>34</u> <u>35</u> <u>36</u> <u>37</u> <u>38</u> <u>39</u> <u>40</u> <u>41</u> <u>42</u> <u>43</u> <u>44</u> <u>45</u> <u>46</u> <u>47</u> <u>48</u>
_ 49 _ 50 _ 51 _ 52 _ 53 _ 54 _ 55 _ 56 _ 57 _ 58 _ 59 _ 60 _ 61 _ 62 _ 63 _ 64

## 3.8.2 Video Loss

Step 1.Select a channel.

=	Milesight	Video Loss	
-	Local Configuration	Channel 1	
ine View	Carnera	Event Sattrops	
5	Storage	Action 6	
Rayback	Event	Copy la Canina - 7	
H.	Musice Detection	9 10	
	Viden tasi	13 12	
A tem	Alarmingut Alarm District	13 14 15	
is .	Temptor		
Settings	VEA		
	System		

#### Step 2.Set Action for video loss by clicking "Edit".

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

The user can set effective schedule as following two ways:

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

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

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

							A	ction						
dible Warning	E	mail L	inkage		F	PTZ A	ction		Alarm	Output		Wi	nite LED	
Select	All		Clear All											
Sun	0	2	4	e	5	8	10	12	14	16	18	20	22	24
Mon	0	2	4	e	5	8	10	12	14	16	18	20	22	24
Tue	0	2	4	6	5	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	,	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	5	8	10	12	14	16	18	20	22	24
Fri	0	2	4	6	5	8	10	12	14	16	18	20	22	24
Sat	0	2	4	6	5	8	10	12	14	16	18	20	22	24
Holiday	U	2	4	E	)	8	10	12	14	16	18	20	22	24
Audio File			Default	~										
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:

- 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.



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

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



And you can add PTZ Action by clicking 💷.

PTZ Action:					
Channel Select Channel	<ul> <li>Action Type</li> </ul>	e Preset 🗸	No.		
Add D	elete				
Channel	Edit	Delete	Action Type	No.	
				ОК	Cancel

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx\_x (such as CH1\_1) according to the camera channel and corresponding alarm number.

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



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

The user can set effective schedule as following two ways:

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.

						A	ction						
Warning	En	nail Lin	nkage		PTZ Ad	tion		Alarm	Output		Wł	nite LED	
Select A	All (	CI	ear All										
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	0	2	4	6	8	10	12	14	16	18	20	22	24
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24
Sat	0	2	4	6	8	10	12	14	16	18	20	22	24
Holiday													
Triggered Ir	nterval	į	20s	$\sim$									
White LED:											2		

And you can add White LED by clicking  $\square$ .

Ehanne	el Select Channel	Flash Mod	le Twinkle	Flash Time3	- Reset
	Add Dek	ette			
1710	Channel	Edit	Delete	Flash Mode	Flash Time

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

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

Step5. Click''Copy'' and *sto copy the same configuration to other channels.* 

Сору	to Car	nera -														
<ul> <li>All</li> </ul>																
<b>√</b> 1	<b>v</b> 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	

## 3.8.3 Alarm Input

#### 3.8.3.1 NVR Alarm Input

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

## **Alarm Input Settings**

NVR Alarm Input	Camera Alarm Input	
Alarm Input No.	1	$\sim$
Alarm Name		(cannot copy
Alarm Type	NO	$\sim$

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

Alarm Name: Set a name for the alarm.

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

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 warning when event is detected.

The user can set effective schedule as following two ways:

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

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

		Act	ion		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Select	All Clear All	I			
Sun	0 2 4	6 8 10	12 14 16 18	20 22 24	
Mon	0 2 4	6 8 10	12 14 16 18	20 22 24	
Tue		6 8 10 6 8 10	12 14 16 18	20 22 24	
Wed	0 2 4	6 8 10	12 14 16 18	20 22 24	
Thu	0 2 4	6 8 10	12 14 16 18	20 22 24	
Sat	0 2 4	6 8 10	12 14 16 18	20 22 24	
Holiday	0 2 4	6 8 10	12 14 16 18	20 22 24	
Audio File	Default	$\checkmark$			
Triggered I	nterval 20s	$\checkmark$			
				OI	K Car

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:

 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.
 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.



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

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



And you can add PTZ Action by clicking 💷.

PTZ Action:					
Channel Select Channel	✓ Action Typ	e Preset 🗸	No.		
Add De	elete				
Channel	Edit	Delete	Action Type	No.	
				OK	Cancel

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx\_x (such as CH1\_1) according to the camera channel and corresponding alarm number.

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

Audible Warning
Alarm Outr Alarm Narr Add

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

The user can set effective schedule as following two ways:

User can set effective schedule as following two ways:

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

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

Audible Warning       Email Linkage       PTZ Action       Alarm Output       White LED       Others         Select All       Clear All         Sun       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Med       0       2       4       6       8       10       12       14       16       18       20       22       24         Hold       0       2       4       6       8       10       12       14			Acti	011		
Select All       Clear All         Sun       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mode       0       2       4       6       8       10       12       14       16       18       20       22       24         Mode       0       2       4       6 <th>Audible Warning</th> <th>Email Linkage</th> <th>PTZ Action</th> <th>Alarm Output</th> <th>White LED</th> <th>Others</th>	Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Select All       Clear All         Sun       0       2       4       6       8       10       12       14       16       18       20       22       24         Sun       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mu       0       2       4       6       8       10       12       14       16       18       20       22       24         Tue       0       2       4       6       8       10       12       14       16       18       20       22       24         Wed       0       2       4       6       8       10       12       14       16       18       20       22       24         Fri       0       2       4       6						
0       2       4       6       8       10       12       14       16       18       20       22       24         Sun       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Tue       0       2       4       6       8       10       12       14       16       18       20       22       24         Wed       0       2       4       5       8       10       12       14       16       18       20       22       24         Wed       0       2       4       5       8       10       12       14       16       18       20       22       24         Fri       0       2       4       5       8       10       12       14       16	Select	All Clear All				
Sun       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Tue       0       2       4       6       8       10       12       14       16       18       20       22       24         Wed       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Wed       0       2       4       6       8       10       12       14       16       18       20       22       24         Fri       0       2       4       6       8       10       12       14       16       18       20       22       24         Sat       0       2       4       6       8       10       12       14 <td></td> <td>0 2 4</td> <td>6 8 10</td> <td>12 14 16 18</td> <td>20 22 24</td> <td></td>		0 2 4	6 8 10	12 14 16 18	20 22 24	
Mon       0       2       4       6       8       10       12       14       16       18       20       22       24         Tue       0       2       4       6       8       10       12       14       16       18       20       22       24         Wed       0       2       4       6       8       10       12       14       16       18       20       22       24         Wed       0       2       4       6       8       10       12       14       16       18       20       22       24         Thu       0       2       4       6       8       10       12       14       16       18       20       22       24         Fri       0       2       4       6       8       10       12       14       16       18       20       22       24         Sat       0       2       4       6       8       10       12       14       16       18       20       22       24         Fri       0       2       4       6       8       10       12       14 <td>Sun</td> <td>0 2 4</td> <td>6 8 10</td> <td>12 14 16 18</td> <td>20 22 24</td> <td></td>	Sun	0 2 4	6 8 10	12 14 16 18	20 22 24	
Tue       0       2       4       6       8       10       12       14       16       18       20       22       24         Wed       0       2       4       6       8       10       12       14       16       18       20       22       24         Thu       0       2       4       6       8       10       12       14       16       18       20       22       24         Thu       0       2       4       6       8       10       12       14       16       18       20       22       24         Fri       0       2       4       6       8       10       12       14       16       18       20       22       24         Sat       0       2       4       6       8       10       12       14       16       18       20       22       24         Fri       0       2       4       6       8       10       12       14       16       18       20       22       24         Sat       0       2       4       6       8       10       12       14 <td>Mon</td> <td>0 2 4</td> <td>6 8 10</td> <td>12 14 16 18</td> <td>20 22 24</td> <td></td>	Mon	0 2 4	6 8 10	12 14 16 18	20 22 24	
Wed       0       2       4       6       8       10       12       14       16       18       20       22       24         Thu       0       2       4       6       8       10       12       14       16       18       20       22       24         Thu       0       2       4       6       8       10       12       14       16       18       20       22       24         Fri       0       2       4       6       8       10       12       14       16       18       20       22       24         Sat       0       2       4       6       8       10       12       14       16       18       20       22       24         Holiday       0       2       4       6       8       10       12       14       16       18       20       22       24	Tue			10 14 16 10		
0       2       4       6       8       10       12       14       16       18       20       22       24         Thu       0       2       4       6       8       10       12       14       16       18       20       22       24         Fri       0       2       4       6       8       10       12       14       16       18       20       22       24         Sat       0       2       4       6       8       10       12       14       16       18       20       22       24         Holiday       0       2       4       6       8       10       12       14       16       18       20       22       24	Wed			12 14 10 10	20 22 24	
0       2       4       6       8       10       12       14       16       18       20       22       24         Fri       0       2       4       6       8       10       12       14       16       18       20       22       24         Sat       0       2       4       6       8       10       12       14       16       18       20       22       24         Holiday       0       2       4       6       8       10       12       14       16       18       20       22       24	Thu	0 2 4	6 8 10	12 14 16 18	20 22 24	
0 2 4 6 8 10 12 14 16 18 20 22 24 Sat 0 2 4 6 8 10 12 14 16 18 20 22 24 Holiday	Fri	0 2 4	6 8 10	12 14 16 18	20 22 24	
0 2 4 6 8 10 12 14 16 18 20 22 24 Holiday	Sat	0 2 4	6 8 10	12 14 16 18	20 22 24	
holidy	Holiday	0 2 4	6 8 10	12 14 16 18	20 22 24	
	White LED					
White LED:						

And you can add White LED by clicking 🖃.

Ehanne	Select Channel	Flash Mod	e Twinkle	Flash Time 1	Reset
-					-
	Vold Diel	ete			

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.



Step4: Copy alarm input settings to other input interface by clicking "Copy".

```
      Copy to Camera

        • All

        • 1
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```

#### 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 Settings**

NVR Alarm Input	Camera Alarm Input	
	2	27
Channel	1	×
Alarm Input No.		~
Alarm Name		_
Alarm Type	NO	$\sim$

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 warning when event is detected.

The user can set effective schedule as following two ways:

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

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

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



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

The user can set effective schedule as following two ways:

 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.
 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.



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

User can set effective schedule as following two ways:

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

		Acti	ion		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Select	All Clear All				^
Sun	0 2 4	6 8 10	12 14 16 18	20 22 24	
Mon	0 2 4	6 8 10	12 14 16 18	20 22 24	
Тие	0 2 4	6 8 10	12 14 16 18	20 22 24	
Wed	0 2 4	6 8 10	12 14 16 18	20 22 24	
Thu	0 2 4	6 8 10	12 14 16 18	20 22 24	
Eri	0 2 4	6 8 10	12 14 16 18	20 22 24	
	0 2 4	6 8 10	12 14 16 18	20 22 24	
Sat Holiday	0 2 4	6 8 10	12 14 16 18	20 22 24	
Triggered	Interval 20s	$\checkmark$			
PTZ Action	n:			_	·
					OK Cancel

And you can add PTZ Action by clicking 💷.

PTZ Action:					
Channel Select Channel	✓ Action Type	e Preset 🗸	No. 📉		
Add De	lete				
Channel	Edit	Delete	Action Type	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.

		Act	ion		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Alarm Out Alarm Nam Add	nterval 20s	1 2 3 4 (H1_1 CH1_2 CH2_1 CH2_1 CH2_2 CH2_1 CH2_2 CH3_2 CH4_2 CH3_2 CH4_2 CH5_1 CH5_1 CH5_2 CH6_1 CH6_2 CH7_1 CH7_2 CH8_1 CH8_2 CH8_1 CH8_2 CH8_1 CH8_2 CH8_1 CH8_2 CH9_2 CH10_1 CH12_2 CH10_1 CH12_1 CH12_1 CH12_2 CH11_1 CH12_2 CH13_1 CH13_2 CH13_1 CH13_2 CH13_		Edit Dek	ste

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

The user can set effective schedule as following two ways:

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.

		Acti	on		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Select	All Clear All				
Sun	0 2 4	6 8 10	12 14 16 18	20 22 24	
	0 2 4	6 8 10	12 14 16 18	20 22 24	
Mon	0 2 4	6 8 10	12 14 16 18	20 22 24	
Tue	0 2 4	6 8 10	12 14 16 18	20 22 24	
Wed					
Thu	0 2 4	6 8 10	12 14 16 18	20 22 24	
Fri	0 2 4	6 8 10	12 14 16 18	20 22 24	
Sat	0 2 4	6 8 10	12 14 16 18	20 22 24	
L la Balance	0 2 4	6 8 10	12 14 16 18	20 22 24	
Holiday					
Triggered	Interval 20s	$\sim$			
White LED				2	_
				ОК	Cancel

And you can add White LED by clicking 🗐.

Add Delete	Ehannel Select Channel	Flash Mode	Twinkle	Flash Time	- Reset
Add Delete	-				
	Add De	aete			

**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.



Step4: Copy alarm input settings to other input interface by clicking "Copy".

```
      Copy to Camera

      ■ All

      ■ 1
      ■ 2
      3
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      64
```

## 3.8.4 Alarm Output

3.8.4.1 NVR Alarm Output

	Milesiaht	Alarm Output	Settions				
-	Local Continuention	Marin Output	Comment Allow Dollard				
- Mark	Local Configuration	nya raami Gudan	Lamera Marti Coldut				
_	Camera	Alarm Outpul	1	10			
9	Storage	Alarm Name		(cannot copy)			
	Event	Alarm Type	NO				
28.	Matlon Detection	Denay	58				
	Video Lose	Exent Settings					
₩ 11 AL	Warm Ingut	Effective Time	Edit				
~	Exception	Copy to Alarm					
ttings	VCA						
32	System	Save					
Pa5 bature							
ek i							
ar anti-							
		1					

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

## Alarm Output Settings

NVR Alarm Output	Camera Alarm Output	
		-
Alarm Output	1	$\sim$
Alarm Name		(cannot copy)
Alarm Type	NO	$\sim$
Delay	5s	$\sim$

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.

Multicasion     Joint Configuration       Convers     Cannel       Storage     Aarm Output       Storage     Aarm Output       Aarm Output     Image Aarm Output       Storage     Aarm Output       Storage     Aarm Output       Aarm Output     Image Aarm Output       Storage     Aarm Output       Aarm Output     Image Aarm Output       Aarm Name     Daarnet copyl       Adem Daarnet     There Settings       Aarm Output     Image Aarm Output       Aarm Output     Image Aarm Output       Aarm Name     Daarnet copyl       Adem Daarnet     There Settings       Mem Daarnet     There Settings       Oppedian     Copy In Cannet       Yearnet     Save	Alarm Output Settings  Pro@ Aum Output Settings  Pro@ Aum Output Settings  Pro@ Aum Output Convex Alem Codput  Rec  Aum Name  Convex Alem Today  Prec  Datag  Prec  Prec Prec		Milariahh	122	12.10.2	
Local Configuration     Totel Autom Output     Canvest       Canvest     Canvest     1       Storaget     Autom Output     1       Storaget     Autom Output     1       Event     Autom Output     1       Foodston Dencion     Autom Output     1       Autom Output     1     1       Event     Autom Output     1       Mann Dencion     Namin Type     Nc       Datay     5s     1       Donation     Copy In Canvet     1       System     Same     Same	al Configuration wir		Milesight	Alarm Outpu	t Settings	
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Storage channel	Provide and a start of the sta		Cemera			
Autim Output     I       Vect     Alarm Name       Alarm Name     Islanct copy)       Alarm Type:     Nc       Vidia Lena     Disky       Jame Type:     Nc       Joneption:     City to Camma       Vola     City to Camma       System:     Same	A Aum Output I Aum Nave Connect copy) A Aum Nave Connect copy A Aum Stype NC Doing Totopad Ifficitve Total Copy to Came a		Storage	Channel	1	
Aver     Aver     Aver       Addin Date     Main Type     Mc       Alam Type     Mc     Main Type       Alam Type     Mc     Main Type       Alam Type     Main Type     Main Type       Alam Type     Main Type     Main Type       Cooption     Cooption     Cooption       VCA     Cooption     Cooption       System     Cooption     Cooption	Autor name Ludrock (opy) Autor have <u>NC</u> Lobal Solution (opy) Autor have <u>NC</u> Introduction (op) Introduction (op) Introdu		-	Alerm Output		
Monse presenter     Aram Type     Im.       Values Units     Diskiy     Sin       Alam Thouga     Facent Settlings       Sprettion     Extern Settlings       Value     Copy to Camma       System     Sinve	An Unit Constant of Constant o		L.Vent	Autro Name	1	Titratainer cobAl
Vann Long Alam Dolga Soreption VeA System	in construction of the con		Motion Detection	Alami Type	TWL.	
Alem Daga Liver Falling- Every faile Fault Falling- Every faile Fault Falling- VeA Copy to Carenta Syntom Same	Treef Setting-       thickes Tops       cion       Copy In Commé		Voltes Linu	Delay	24	
Investion Vol System Seen	etim filsche Tope Fak	Ì	Alien Didest	Event Setting=	1	
VCA Coxy LD Camma 🔹	m	1	Exception	Effective Tiose	Edit	
System Sam	em.		VCA	Copy to Camma		

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

=	Milesight	Exception		
-	Local Configuration	Expeption Type	Network Disconnected	
1-v-	Camera	Trigger Action	2 Levent Notification	
9	Storage		- 1] Aastraie Warning	
=laybert	Event		Auto me Consult	
225.	McGon Detection		I Enal Likapy	
Contractor.	Video Linu			
	Alarm Input			
30	Exception	Save		
Settings	VEA			
215	System			
Stature				
100				
10pt				
E.				
Langement				
		. · · · · · · · · · · · · · · · · · · ·		

#### **Step1. Select Exception Type.**

Exception Type Trigger Action

Network Disconnected	
Disk Full	
Record Failed	
Disk Error	
Disk Uninitialized	
No Disk	

Network Disconnected: Loss of network.

Disk Full: 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.

## Exception

Exception Type

**Trigger Action** 

Network Disconnected
Disk Full
Record Failed
Disk Error
Disk Uninitialized
No Disk

# 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 warning. You can select the audio file as needed for audible warning. The default is an audible beep.

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

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

Alarm Output: NVR will trigger the corresponding Alarm Output.

✓ Eve	ent No	tificatio	on	
	dible V	Varning	J	
Audio	File	Defa	ult	$\sim$
	iali Lini	kage		
	'R Aları	m Outp	ut	
□ 1	2	3	□ 4	

## 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 functions 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.

#### 3.8.6.1 Region Entrance

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

#	Milesight	VCA							
-	Local Configuration	Region Entrance	Region Exiting	Advanced Motion Dec.,	Tamper Detection	Line Crusting	Loitering	Hiaman Detection	Object Left/Removed
	Camera	Channel Event				_			
9	Storage	Channel	5	10					
nteri	Event	Region No.	ī	H					
28	Mation Detection	Region Entrance	20						
sine	Video Loss	Region Settings							
22	Alarm Input-	Request	No. of Concession, Name						
ant A.L	Alarm Output		15						
×	Exception		100	AL MITCH					
ttings	VCA								
* 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3700	Region	- Tota	1/2					
E+		Object Size Limits	Edit						
1000		Minimum Size(1x1-320	(240)	x 15					
		Maximum Size(1x1-320	(240) IVE	x 230					
		Event Settings							
		ContRide		10					
		Detection Object	🐱 Human	Vehicle					
		Effective Time	Edit						
		Action	Edit						
		Torn to Calmus	1	-					
		Copy to California							

#### Step1.Select Channel and Region No, then enable Region Entrance.

Channel Event	
Channel	5
Region No.	1
Region Entrance	

## Step 2. Set entrance detection region.

You can click "Edit" button to edit the detection region. Also, you can edit the area by clicking "Edit" button. And you can set or clear all set region by directly clicking "Set All" or "Clear All".



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



#### Step 3. Set the Object Size Limits.

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

OMinimum Size(1x1~320x240)	3	х	3
OMaximum Size(1x1~320x240)	320	х	240

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

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

#### Step4. 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.

	5
Sensitivity	

#### **Step5. 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.

#### Step6. 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 7. Set Action for region entrance alarm by clicking "Edit".

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

The user can set effective schedule as following two ways:

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

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

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

						А	ction								
Audible Warning	Em	ail Lin	kage		PTZ A	tion		Alarm	Output		W	hite LEC	)	(	Others
Select All		Cle	ear All												
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24		
Mon	0	2	. 4	6	8	10	12	14	16	18	20	22	24		
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24		
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24		
Thu		2	4	6	8	10	12	14	16	18	20	22	24		
Fri		2	4	6	8	10	12	14	16	18	20	22	24		
Sat	0	2	4	6	8	10	12	14	16	18	20	22	24		
Holiday															
Audio File			Default	$\vee$											
Triggered Inte	erval	2	20s	$\sim$											
														ЭК	Cancel

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

The user can set effective schedule as following two ways:

 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.
 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.



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 all time settings.
- 2. Click Edit to edit effective time manually.

							Actio	1								
dible Warning	Ema	ail Link	age		PTZ			Alar	m Outpu	ıt	V	Vhite LEC		Other	rs	
Select All		Clea	ar All													
Sun	0	2	4	6	8	10	) 12	14	16	18	20	22	24			
Mon	<b>9</b>	2	4	6	8	10	) 12	14	16	18	20	22	24			
Tue	0	2	4	6	8	10	) 12	14	16	18	20	22	24			
Wed	0	2	4	6	8	10	) 12	14	16	18	20	22	24			
Thu		2	4	6	8	10	) 12	14	16	18	20	22	24			
Fri		2	4	6	8	10	) 12	14	16	18	20	22	24			
Sat	0	2	4	6	8	10	) 12	: 14	16	18	20	22	24			
Holiday																
Triggered Inte	erval	20	)s	$\sim$												
PTZ Action:																
													ОК		Cancel	

And you can add PTZ Action by clicking 💷.

Channel Select Channel 🗸 Action Type Preset 🗸 No.
Add Delete
Channel Edit Delete Action Type No.

Channel: Select the channel which supports this function.

Action Type: Preset and Patrol are available.

No.: Select the number of Preset or Patrol.

Alarm Output: Trigger alarm output when alarm is triggered. For NVR Alarm Output, the relevant alarm output will be firstly listed, such as, 1, 2.etc. As for camera Alarm Output, it will display as CHx\_x (such as CH1\_1) according to the camera channel and corresponding alarm number.

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

		Actio	n		
Audible Warning	Email Linkage	PTZ Action	Alarm Output	White LED	Others
Alarm Out Alarm Nan Add	put No. ne Alarm Output No.	1 2 3 4 CH1_1 CH1_2 CH2_1 CH2_2 CH3_1 CH3_2 CH3_1 CH3_2 CH4_1 CH4_2 CH4_1 CH4_2 CH4_1 CH4_2 CH4_1 CH4_2 CH5_1 CH5_2 CH6_1 CH6_2 CH7_2 CH8_1 CH6_2 CH7_1 CH6_2 CH7_1 CH6_2 CH6_1 CH6_2 CH7_1 CH6_2 CH6_1 CH6_2 CH7_1 CH6_2 CH6_1 CH6_2 CH6_1 CH6_2 CH6_1 CH6_2 CH7_1 CH6_2 CH6_1 CH6_2 CH1_1 CH6_2 CH1_1 CH1_2 CH1_1 CH1_2 CH1_1 CH1_2 CH1_1 CH1_2 CH1_1 CH1_2 CH1_1 CH1_2 CH1_2 CH1_1 CH1_2 CH1_2 CH1_1 CH1_2 CH1_		Edit Delete	

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

The user can set effective schedule as following two ways:

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.

							Action									
Audible Warning	En	nail Link	age		PTZ /	Action		Alarm	Output			hite LED		Other	s	
Select	All	Cle	ar All													^
Sup	0	2	4	6	8	10	12	14	16	18	20	22	24			
Mon	0	2	4	6	8	10	12	14	16	18	20	22	24			
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24			
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24			
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24			
Fri	0	2	4	6	8	10	12	14	16	18	20	22	24			
Cat	0	2	4	6	8	10	12	14	16	18	20	22	24			
Jat	o	2	4	6	. 8	10	12	14	16	18	20	22	24			H
Tioliday													_			
Triggered	Interval	2	Ds	$\vee$												
White LEC	t.										2					Ň
													ОК		Cancel	

And you can add White LED by clicking .

Channel       Select Channel       Flash Mode       Twinkle       Flash Time       3       Reset         Add       Delete       Delete       Flash Mode       Flash Time         Channel       Edit       Delete       Flash Mode       Flash Time	White LED:				
Add Delete  Channel Edit Delete Flash Mode Flash Time	Channel Select Channel	✓ Flash Mode	Twinkle 🗸	Flash Time —0—3	Reset
Channel Edit Delete Flash Mode Flash Time	Add Dela	ete			
	Channel	Edit	Delete	Flash Mode	Flash Time

Channel: Select the channel which supports this function.

Flash Mode: Twinkle and Always are available.

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

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

Action									
Audible Warning	ble Warning Email Linkage		Alarm Output	White LED	0	thers			
Trigger Cha	nnels Record								
<ul> <li>All</li> </ul>									
<b>⊻</b> 1 🗆 2	3 4 5 6	7 8 9	10 🗌 11 🗌 12 🗌 13 🗌	14 🔲 15 🗌 16					
17 🗆 18	□ 19 □ 20 □ 21 □ 2	2 🗌 23 🗌 24 🗌 25 🔲	26 🗌 27 🗌 28 🗌 29 🗌	30 🔲 31 🔲 32					
33 🗆 34	□ 35 □ 36 □ 37 □ 3	8 🖸 39 🗖 40 🗖 41 🗖	42 🗌 43 🗌 44 🗌 45 🗌	46 🗌 47 🗌 48					
□ 49 □ 50	□ 51 □ 52 □ 53 □ 5	4 🗆 55 🗆 56 🗆 57 📄	58 🗆 59 🗌 60 🗌 61 🗌	62 🔲 63 🗌 64					
Trigger Char	nnels Snapshot								
IIA II									
<b>2</b> 1 2	3 4 5 6	07 08 09 0	10 🗆 11 🔄 12 🔄 13 📄	14 🔲 15 🔄 16					
□ 17 □ 18	□ 19 □ 20 □ 21 □ 2	2 🗆 23 🗌 24 🗌 25 🔲	26 🗌 27 🗌 28 🗌 29 🗌	30 🔲 31 🔲 32					
□ 33 □ 34	□ 35 □ 36 □ 37 □ 3	8 🖸 39 🗖 40 🗖 41 🗖	42 🗆 43 🗆 44 🗆 45 🗖	46 🔲 47 🔲 48					
□ 49 □ 50	□ 51 □ 52 □ 53 □ 5	4 🗆 55 🗆 56 🗖 57 🗖	58 🗆 59 🗖 60 🗖 61 🗖	62 🔲 63 🔲 64					
Note: This p	age's configuration will	not be copied into other	channels.						
					ОК	Cancel			

Step8. Click [Copy to Camera] to copy the same configuration to other channels.

## 3.8.6.2 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.



Step1.Select Channel and Region No, then enable Region Exiting.
Channel Event	
Channel	5
Region No.	1
Region Exiting	

# Step 2. Set exit detection region.

You can click "Edit" button to edit the detection region. Also, you can edit the area by clicking "Edit" button. And you can set or clear all set region by directly clicking "Set All" or "Clear All".



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



Step 3. Set the Object Size Limits.

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

3	х	3
320	х	240
	3	3 x 320 x

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

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

### Step4. 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
```

### **Step5. 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.

### Step6. 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 7. Set Action for region entrance alarm by clicking "Edit".

For detailed settings of these actions, please refer to <u>Alarm Action (page 174)</u>

# Step8. Click [Copy to Camera] to copy the same configuration to other channels.

# 3.8.6.3 Advanced Motion Detection

Different from traditional motion detection, 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.

#	Milesight	VCA							
-	Local Configuration	Region Entrance	Risgian Exiting	Advanced Motion Det	Tamper Detection	Line Crowing	Laibning	Human Detection	Object Left/Removed
	Camera	Enannel Event							
9	Storage	Channel	5						
Hayback	Event	Region No.	1	1					
22	Motion Detection	Advanced Motion Detection	8						
urbieve	Video Losa	Region Settings	_						
E2	Alarm Input								
ent du	Alarm Dutput	Pagent							
*	Exception								
Real Property in the second		Region	Finish	Set Al	Delete All				
Ð		Object Size Limits	Edit	1.0					
rodoni		Minimum Size(1x1-320x24	(0) 3:	* 11					
		Maximum Size(1x1-320x24	40) 320	* (340					
		Event Settings		~ ~ ~					
		Sensitivity		8					
		Detection Object	Human Human	W Vehicle					
		Ignore Short-Lived Motion	Off						
		Effective Time	Edit						
		Action	Edit						
		Copy to Cardela				-			

# Step1.Select Channel and Region No, then enable Advanced Motion Detection.

# Step 2. Set advanced motion detection region.

You can click "Edit" button to edit the detection region. Also, you can edit the area by clicking "Edit" button. And you can set or clear all set region by directly clicking "Set All" or "Clear All".



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



### Step 3. Set the Object Size Limits.

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

OMinimum Size(1x1~320x240)	3	х	3
OMaximum Size(1x1~320x240)	320	Х	240

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

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

### Step4. 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

### Step5. 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 will be ignored and won't trigger the alarm, making the detection more accurate and efficient.

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

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

### Step7. 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.

Select All Clear All   Sun 0 2 4 6 8 10 12 14 16 18 20 22 24   Sun 0 2 4 6 8 10 12 14 16 18 20 22 24   Mon 0 2 4 6 8 10 12 14 16 18 20 22 24   Mon 0 2 4 6 8 10 12 14 16 18 20 22 24   Mon 0 2 4 6 8 10 12 14 16 18 20 22 24   Mon 0 2 4 6 8 10 12 14 16 18 20 22 24   Tue 0 2 4 6 8 10 12 14 16 18 20 22 24   Fri 0 2 4 6	Select All Clear All   Sun 0 2 4 6 8 10 12 14 16 18 20 22 24   Sun 0 2 4 6 8 10 12 14 16 18 20 22 24   Mon 0 2 4 6 8 10 12 14 16 18 20 22 24   Mon 0 2 4 6 8 10 12 14 16 18 20 22 24   Mon 0 2 4 6 8 10 12 14 16 18 20 22 24   Tue 0 2 4 6 8 10 12 14 16 18 20 22 24   Wed 0 2 4 6 8 10 12 14 16 18 20 22 24   Fri 0 2 4 6	Select All Clear All   Sun 0 2 4 6 8 10 12 14 15 18 20 22 24   Mon 0 2 4 6 8 10 12 14 15 18 20 22 24   Mon 0 2 4 6 8 10 12 14 15 18 20 22 24   Mon 0 2 4 6 8 10 12 14 15 18 20 22 24   Mon 0 2 4 6 8 10 12 14 15 18 20 22 24   Mode 0 2 4 6 8 10 12 14 15 18 20 22 24   Wed 0 2 4 6 8 10 12 14 16 18 20 22 24   Fri 0 2 4 6 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Ef</th> <th>fectiv</th> <th>/e Tin</th> <th>ıe</th> <th></th>								Ef	fectiv	/e Tin	ıe										
0 2 4 8 8 10 12 14 18 18 20 22 24   Sun 0 2 4 8 8 10 12 14 18 18 20 22 24   Mon 0 2 4 8 8 10 12 14 16 18 20 22 24   Mon 0 2 4 8 8 10 12 14 16 18 20 22 24   Mon 0 2 4 6 8 10 12 14 16 18 20 22 24   Tue 0 2 4 6 8 10 12 14 16 18 20 22 24   Wed 1 12 14 15 18 20 22 24   Fri 0 2 4 6 8 10 12 14 15 16 20 22 24	0 2 4 6 8 10 12 14 16 18 20 22 24   Sun 0 2 4 6 8 10 12 14 16 18 20 22 24   Mon 0 2 4 6 8 10 12 14 16 18 20 22 24   Mon 0 2 4 6 8 10 12 14 16 18 20 22 24   Tue 0 2 4 6 8 10 12 14 16 18 20 22 24   Wed 0 2 4 6 8 10 12 14 16 18 20 22 24   Thu 0 2 4 6 8 10 12 14 16 18 20 22 24   Fri 0 2 4 6 8 10 12 14 16	0 2 4 8 8 10 12 14 15 18 20 22 24   Sun 0 2 4 6 8 10 12 14 15 18 20 22 24   Mon 0 2 4 6 8 10 12 14 15 18 20 22 24   Mon 0 2 4 6 8 10 12 14 15 18 20 22 24   Tue 0 2 4 6 8 10 12 14 15 18 20 22 24   Wed 0 2 4 6 8 10 12 14 16 18 20 22 24   Thu 0 2 4 6 8 10 12 14 16 18 20 22 24   Fri 0 2 4 8 8 10 12 14 15	Select All		C	lear A	AII -																
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			Holiday	0	2		4	6	8	10	)	12	14	1	6	18	20	)	22	24			

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

For detailed settings of these actions, please refer to Alarm Action (page 174)

Step9. Click [Copy to Camera] to copy the same configuration to other channels.

### 3.8.6.4 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.



**Step1.Select channel and enable Tamper Detection.** 

## Step 2. Set Sensitivity.

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

Sensitivity 5

### Step3. 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 4. Set Action for tamper detection alarm by clicking "Edit".

For detailed settings of these actions, please refer to <u>Alarm Action (page 174)</u>.

# Step5. Click [Copy to Camera] to copy the same configuration to other channels.

# 3.8.6.5 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:

=	Milesight	VCA
	Local Configuration	Region Entrance Region Enting Advanced Motion DeL. Tamper Detection In Containing Lotterleg Human Detection Object Left/Removed
	Camera	Channel Frank
5	Storage	Chinnel
	Event	Line 1
	Motion Detection	Line Crossing 😨
iner 1	Video Luis	Direction A->B
1	Alarm Input	Region Settings
1 A_	Alarm Output	
< L	Exception	
ings	HEA	
us k		are the second sec
		Dine Edit Delete
141 		Object Size Linite Edit
		Micimum Size(1x1=320:240)
		Maamam Size(114-320x240) 128 x 240
		Event Settings
		Servitives 5
		Detection Object: 22 Human 23 Whiche
		Elizetiwa Timu
		Edit

### Step 1. Select Channel and enable Line Crossing.

### **Step 2. Choose detection line number.**

Channel	4	$\sim$
Line	1	$\sim$
Line Crossing	<b>v</b>	

## **Step 3. Define its direction.**

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

Direction A	A->B
-------------	------

### **Step 4.Draw detection lines.**

And you can edit the line by clicking "Edit" button.



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

### Step 5. Set the Object Size Limits.

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

OMinimum Size(1x1~320x240)	3	х	3
OMaximum Size(1x1~320x240)	320	х	240

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

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

### Step 6. Set Sensitivity.

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

5

Sensitivity ------

# **Step 7. Select the Detection Object.**

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

Detection Object 🗹 Human 🔽 Vehicle



- 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.

### Step8. 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 9. Set Action for line crossing alarm by clicking "Edit".

For detailed settings of these actions, please refer to <u>Alarm Action (page 174)</u>.

### Step10. Click [Copy to Camera] to copy the same configuration to other channels.

### 3.8.6.6 Loitering

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

	Milesight	VCA							
	Local Configuration	Region Entrance	Region Exiting	Advanced Motion Det	Tamper Detection	Linu Crossing	Loitering	Human Detection	Object Left/Removed
	Camera	Chairoll Event							
	Storage	Channel	5	1					
1	Event	Region No.	1	10					
Г	Motion Distantion	Loibering	8						
	Video Loss	Région Séttings							
	Alarm Inplut	777							
	Alarm Output	Report Star	0 (11)						
	Keeption								
				Set All	Didebe All				
		Region	Edit	301 10	Desite Yo				
		Minimum Size(1x1-320	0x240) 3						
		Maximum Size(1x1-32)	0x240) 120	× 240					
		Event Settings							
		Min.Loitering Time (3-180	00s) [7-						
		Detection Object	🔛 Human	M Vehicle					
		Effective Time	Edit						
		Action	Edit						
		Fopy to Camaca				-			

# Step1.Select Channel and Region No, then enable Loitering.

Channel Event	
Channel	5 ~
Region No.	1
Loitering	

# Step 2. Set Loitering detected region.

You can click "Edit" button to edit the detection region. Also, you can edit the area by clicking "Edit" button. And you can set or clear all set region by directly clicking "Set All" or "Clear All".



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



### Step 3. Set the Object Size Limits.

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

OMinimum Size(1x1~320x240)	3	х	3
OMaximum Size(1x1~320x240)	320	х	240

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

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

### 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

### Step5. 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
------------------	---------	-----------



- Make sure your camera's version is 4X.7.0.77 or above, which supports the human/vehicle detection object.
- Make sure your camera model is MS-CXXXX-XXC, which supports the human/vehicle detection object.

### Step6. 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.

						Effec	tive Tir	ne					
Select All		Cle	ar All										
Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	٩ ,	2	4	6	8	10	12	14	16	18	20	22	24
Tue	°,	2	4	6	8	10	12	14	16	18	20	22	24
Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Fri		2	4	6	8	10	12	14	16	18	20	22	24
Sat		2	4	6	8	10	12	14	16	18	20	22	24
Holiday		-	4			10	12	14	15	10	20	22	24
													0

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

For detailed settings of these actions, please refer to <u>Alarm Action (page 174)</u>.

# Step8. Click [Copy to Camera] to copy the same configuration to other channels.

### 3.8.6.7 Human Detection

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

=	Milesight	VCA
-	Local Configuration	Tergion Entrance Region Editing Advanced Motion Det.: Tancer Direction Line Crossing Latinning Human Detection Object Laf/Removed
	Camera	Channe Dand
9	Storage	(Dunie)
Flayback	Event	Human Detection 😡
22	Motion Detection	(linear Detection Settings
and size	Video Lost	
	Alam Input	
	Exerction	
Settings	NCA.	
学 Statut Logat Logat	System	CBp(cf Size Lineis: Mainmann Size(1)1-320(2AD) Mainmann Size(1)1-320(2AD) 200 Event Satismage Sizer

### Step1.Select channel and enable Human Detection.

	Human Detection	V
Step 2. Enable Show Tracks or	not.	
	Show Tracks	
Step 3. Set the Object Size Limi	its.	
You can edit Minimum Size and	Maximum Size by cli	cking "Edit" button.
OMinimur	m Size(1x1~320x240) 3	x 3
OMaximu	m Size(1x1~320x240) 320	) x 240

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

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

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

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



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

For detailed settings of these actions, please refer to <u>Alarm Action (page 174)</u>.

# Step 6. Click [Copy to Camera] to copy the same configuration to other channels.

# 3.8.6.8 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.

Step1.Select Channel and Region No, then enable Object Left or Object Removed(Or you can enable both features at the same time).

#	Milesight	VCA	
-	Local Configuration	Region Entrance Region Entring Advanced Motion Det., Tamper Detection Line Crossing Latering Human Detection Depot Left Parmo	nd.
Ave Vitur	Carvera	Oliend Event	
9	Storage	Channel 5	
Nayback:	Event	Region No. t.	
-	Motion Detection	Object Left 🛃	
Ratifiere	Video Loss	Object Removed.	
	Alarm Implet	Region Settings	
	Alarm Output		
*	Exception		
Settings	KCA		
****	393091		
E.		Region	
policit.		Object Size Limits	
		Minimum Size(1x1-320x240)	
		Maximum Size(1x1-320x240) 320 e 240	
		Evient Settings	
		Min. Time(5<1800a)	
		Sensitivity 10	
		Effective Time	
		Action	
		Foreign Parman	

# Step 2. Set Loitering detected region.

You can click "Edit" button to edit the detection region. Also, you can edit the area by clicking "Edit" button. And you can set or clear all set region by directly clicking "Set All" or "Clear All".



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



### Step 3. Set the Object Size Limits.

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

OMinimum Size(1x1~320x240)	3	х	3
OMaximum Size(1x1~320x240)	320	х	240

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

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

### Step 4. Set Min. Time.

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

Channel Event	
Channel	5 ~
Region No.	1 ~
Object Left	
Object Removed	

# 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 4. 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 5. Set Action for Object Left/Removed alarm by clicking "Edit".

For detailed settings of these actions, please refer to Alarm Action (page 174).

Step 6. Click [Copy to Camera] to copy the same configuration to other channels.

# 3.9 Settings

# 3.9.1 Local Configuration

Local Configuration includes Record File Path, Preview Picture Path, Preview Playback Path, Language, Connection Type, Play Mode and Primary Stream in Fullscreen option. This interface support unified configuration of formats and paths for record files and pictures.

Jownload Record File Format	MP4	$\sim$		
ive View Record File Path	C:\Users\Grace\WebView\LiveViewRecordFile		Browse	
Playback Record File Path	C:\Users\Grace\WebView\PlaybackRecordFile		Browse	
Retrieve Record File Path	C:\Users\Grace\WebView\DownloadRecordFile		Browse	
Picture				
Picture Resolution	Auto	$\sim$		
ive View Picture Path	C:\Users\Grace\WebView\LiveViewPictureFile		Browse	
Playback Picture Path	C:\Users\Grace\WebView\PlaybackPictureFile		Browse	
Retrieve Picture Path	C:\Users\Grace\WebView\DownloadPictureFile		Browse	
Other Configuration				
anguage	English	$\sim$		
Connection Type	НТТР	$\sim$		
Play Mode	Least Delay	$\sim$		
Auto Logout	30 minutes	$\sim$		
	Disable	$\sim$		

# 3.9.2 General

## Date & Time

It is for setting up the Time parameters of NVR, including Time Z one, Daylight Saving Time, Time Setting, Server Address, NTP Sync, Interval, etc.

Date & Time	Device
Current System Time	
Date	13/10/2022
Time	14:59:12
Set The System Time	
Time Zone	(UTC+08:00) China(Beijing, Hong Ko
Daylight Saving Time	Auto 💛
NTP Server	
Server Address	pool.ntp.org
NTP Sync	Enable 🗸
Interval	1440 1~43200 min
⊖ Manual	
Time	13/10/2022 14:58:15
O Sync with computer t	ime
Date	13/10/2022
Time	14:59:13

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 and support NTP Interval ranging from 1 to 43200 minutes.

### 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.

General Setting	S	
Date & Time	Device	
Device Name	NVR	
HDMI1 Audio	Enable	$\sim$
Audio Out	Enable	$\sim$
Boot Wizard	Enable	$\sim$
HDMI Compatible Mode	Enable	$\sim$
Stream Information	Disable	$\sim$
HDMI1/VGA1 Resolution	1920 x 1080 / 60Hz	$\sim$
HDMI2/VGA2	Enable	$\sim$
HDMI2/VGA2 Resolution	1920 x 1080 / 60Hz	$\sim$

Device Name: Set the device name.

HDMI1/VGA1Resolution: Set the output resolution of HDMI1/VGA1 port.

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

HDMI2/VGA2Resolution: Set the output resolution of HDMI2/VGA2 port.

HDMI1 Audio: Enable it to use HDMI1 Audio.

Audio Out: Enable Audio Out.

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.

# 3.9.3 Network

3.9.3.1 Basic

### Working Mode

It supports three working modes of Multi-address, Load Balance and Net Fault-tolerance.

For Multi-address mode, you can set LAN1 or LAN2 as the default route according to the needs.

**Note:** Only Pro NVR 7000 Series and Pro NVR 8000 Series support this function.

The system supports two IP address format: IPv4 and IPv6

### IPv4

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

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

### IPv6

Manual/ Router Advertisement/ DHCPv6 are available.

### **DNS Server**

# Preferred DNS Server: DNS server IP address.

### Alternate DNS Server: DNS server alternate address.

Network								
Basic	UPnP	DDNS	Email	Milesight Cloud	PPPoE	SNMP	HTTPS	More
Working Mode	Multi-address	$\sim$						
Default Route	LAN1	$\sim$						
NIC Settings								
Select NIC	LAN1	🗸 🗹 Enable						
IPv4 DHCP	Disable	$\sim$						
IPv4 Address	192 . 168 . 7	. 103						
IPv4 Subnet Mask	255 . 255 . 240	. 0						
IPv4 Gateway	192 . 168 . 9	. 2						
IPv6 Mode	Manual	$\sim$						
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		]						
Save								

# **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**.

Dasic	UPnP	DDNS	Email	P2P	PPPoE	SNMP	HTTPS	More
-	N-1-1-							
nP L	лѕаріе	V						
rwarding Type	Auto	$\sim$						
			r	Internel Deut	Statur			
Port Type	Edit		External Port	Internal Port				
Port Type HTTP	Edit		21202	80	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 <u>http://ddns.milesight.com:MAC</u> to access device remotely.

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

Network										
Basic	UPnP	DDNS	Email	P2P	PPPoE	SNMP	HTTPS	More		
Enable DDNS	Disable	$\sim$								
Provider	ddns.milesight.com									
External HTTP Port	80									
External RTSP Port	554									
DDNS URL	http://ddns.milesight.com/0A3092									
Save										

# 3.9.3.4 Email

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

#### Network

Basic	UPnP	DDNS	Email	P2P	PPPoE	SNMP	HTTPS	More
Email	Enable	$\sim$						
User Name	elena@gmail.com							
Password								
SMTP Server	smtp.gmail.com							
SMTP Port	465							
Encryption	O TLS ● SSL							
Host Name	http://	🗌 Enable						
Sender Email Address	elena@gmail.com							
Receiver Email Address 1	elena@163.com							
Receiver Email Address 2	2							
Receiver Email Address 3	3							
Save	Test							

### Enable Email selection and then begin configuration.

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

Password: The password of the E-mail.

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

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

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

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

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

Host Name: It will be attached in the email.

Select "Test" to check if the Mail function is workable.

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

### 3.9.3.5 Milesight Cloud

You can add the devices to M-sight Pro app via Milesight Cloud, which can bind the devices with the cloud accounts. You can log into the cloud account directly on the APP, no need to add devices repeatedly.

Click "Enable" and "Apply" to enable Milesight Cloud.

After enabling, you can add the NVR on the APP M-Sight Pro for live view via scanning the QR code on Milesight Cloud page directly, or inputting the register code manually.

Network										
Basic	UPnP	DDNS	Email	Milesight Cloud	PPPoE	SNMP	HTTPS	More		
Milesight Cloud	Enable	$\sim$								
Milesight Cloud Status	Online									
Cloud Account	cc									
Unbind Device	Unbind									
Cloud Server Address	<u>m-sight.milesight.com</u>									
Register Code	N80641CC3160A25F6e	ce								
Register QR Code	<b>INAXE</b>									
	3.46.9-3									
	TO THE O	35								
		HXC .								
Note: Enable Milesight (	Cloud function, the P2P fu	nction will be enabled au	itomatically. Scan the QR (	code to bind this device	o Cloud Account.					
Save										

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



- 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.

Network									
Basic	UPnP	DDNS	Email	P2P	PPPoE	SNMP	HTTPS	More	
PPPoE	Disable	>							
Dynamic IP User Name	0.0.0.0								
Password									
Confirm Password	Confirm Password								
Note: If both UPnP and PPPoE are enabled, only PPPoE will take effect.									
Save									

**Note:** If both UPnP and PPPoE are enabled, only PPPoE will take effect.

### 3.9.3.7 SNMP

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

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

Network								
Basic	UPnP	DDNS	Email	P2P	PPPoE	SNMP	HTTPS	More
SNMP V1 / V2c								
SNMP V1	Disable	$\sim$						
SNMP V2c	Disable	$\sim$						
Read Community	public							
Write Community	private							
SNMP V3								
SNMP V3	Disable	>						
Read Security Name								
Level of Security	no auth,no priv	$\sim$						
Write Security Name								
Level of Security	no auth,no priv	$\sim$						
SNMP Port								
SNMP Port	161							
Sava								

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 HTTPS

Set in the interface to make sure getting access to NVR successfully via HTTPS, which is able to guarantee communication data security. The reliable and stable technology can secure the user information security and device safety.

Network								
Basic	UPnP	DDNS	Email	P2P	PPPoE	SNMP	HTTPS	More
HTTPS Installation Type Create a Private Certificate Installed Certificate Attributes	Disable Create a Privat	e Certificate	Clear					
Save								

There are three certificate installation types:

### **Create a Private Certificate**

Click "Create" to create the following dialog box. And then enter Country, Common Name, Period of Validity and other information. And then click "OK" to generate a private certificate.

Cre	ate a Private Certificate	
Country		*
Common Name		*
Period of Validity	(1~999)	days*
Password		
Province		
Region		
Organization		
Company		
Email		
	OK	Cancel

# **Direct Installation**

Click "Browse" to select a signed certificate locally and click "Install" to install it.

HTTPS	Enable	
Installation Type	Direct Installation	
Install Signed Certificate		Browse
	Install	
Installed Certificate	C=CN, H/IP=cn	Clear
Attributes	Awarded to: C=CN, H/IP=cn Issuer: C=CN, H/IP=cn Period of Validity: Jun 6 16:21:28 2018 ~ Jan 14 16:21:28 2019	

# **Create a Certificate Request**

Firstly, click "Create" button. And then enter Country, Common Name and other information to create the certificate request;

Download the certificate request and submit it to the trusted certificate authority for signature;

After receiving the signed valid certificate, import the certificate to the device.

HTTPS	Enable	]
Installation Type	Create a Certificate Request	]
Create a Certificate Request	Create Request Conte	ent
Download the Certificate Request	Download	
Delete the Certificate Request	Delete	
Installed Certificate	C=CN, H/IP=cn	Clear
Attributes	Awarded to: C=CN, H/IP=cn Issuer: C=CN, H/IP=cn Period of Validity: Jun 6 16:21:28 2018 ~ Jan 14 16:21:28 2019	

After creating and installing the certificate successfully, you can check the certificate information and clear the information on the following interface. And you can access the NVR by inputting <u>https://ip:port</u> via the web browser.

Installed Certificate	C=CN, H/IP=cn	Clear
Attributes	Awarded to: C=CN, H/IP=cn Issuer: C=CN, H/IP=cn Period of Validity: Jun 6 16:21:28 2018 ~ Jan 14 16:21:28 2019	

**Note:** The default HTTPS port is 443, you can modify it on the "More" interface.

# 3.9.3.9 Multicast

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

Network									
Basic	UPnP	DDNS	Email	Milesight Cloud	PPPoE	SNMP	HTTPS	Multicast	More
Multicast IP Address	Enable	~							
Save Note: Valid IP address ra	nge: 224.0.0.0~239.255.25	5.255.							

**Note:** Valid IP address range: 224.0.0.0~239.255.255.255.

# 3.9.3.10 More

Bath.	-uniter	DOM	Email	Willesayert Saman	FEPGE	SMMP	HTTPS	Manu
hannel Accourt	Diratelin							
nable 55H	Disable							
SH Port	22							
TTP Port	80							
TTPS Port	443							
TSP Port	554							
OS Part	38800							
ish Message	Enable							
usik Stream Type	Auto	10						
ish Message Settings	East							

# 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 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".
  - IP: The IP address of NVR;
  - RTSP port: The default RTSP port is 554;
  - ch\_xxx: The first number of xxx represents stream type, 1 for main stream and 4 for sub stream. The last two represents channel number, which start from '00' ('00' means channel 1). Take 'rtsp://192.168.8.179:554/ch\_402' as an example:
  - The IP address of NVR is 192.168.8.179.
  - The RTSP port is 554.
  - The stream type is sub stream and the channel number is 3.

# **POS Port**

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

### **Push Message**

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

### **Push Stream Type**

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

**Note:** Only NVR model ends with letter T support this option.

### **Push Message Settings**

### (1) Camera Event

Push Message Settings									
Camera Event	NVR Event								
Channel	1		$\sim$						
Push Event Type									
	☑ Motion Detection	✓	Video Loss	✓	Region Entrance				
	🗹 Region Exiting		Advanced Motion Detection	✓	Tamper Detection				
	☑ Line Crossing		Loitering	✓	Human Detection				
	☑ Object Left/Removed								
	- ✔ Alarm Input	-9	ANPR						
	<b>☑</b> 1 <b>☑</b> 2	☑	Black List 🗹 White List	✓	Visitor List				
			Сору С	K	Cancel				

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

### (2) NVR Event

Push Message Settings											
Camera Eve	nt	NVR Even	t								
Alarm Input 🗹 All											
☑ 1 ☑ 2 ☑ POS ☑ AII	<b>2</b> 3 <b>2</b> 4	<b>∑</b> 5 <b>∑</b> 6	<b>2</b> 7	8	<b>7</b> 9	☑ 10 ☑	]11 🔽	12 🗹 1	3 🗹 14	<b>⊻</b> 15	<b>⊻</b> 16
<b>v</b> 1 <b>v</b> 2 <b>v</b>	3 🖌 4	<b>⊻</b> 5 <b>⊻</b> 6	7	<b>⊻</b> 8	<b>9</b>	<b>v</b> 10 <b>v</b>	11 🔽	12 🔽 1	3 🔽 14	<b>⊻</b> 15	<b>⊻</b> 16
								OK		Ca	ncel

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

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

# 3.9.4 Audio File Manager

Here you can upload up to 10 audio files.

**Note:** Ensure that the NVR hardware has an Audio Output interface.



## Add a new audio file

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

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

Audio File		Browse
Audio File Name		

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

### Play audio file

Select an audio file and click  $\bigcirc$  to play the audio file.

### Edit audio file

Select an audio file and click  $\square$  to edit the audio file name.

### **Delete audio file**

Select an audio file and click  $\blacksquare$  to delete the audio file name.

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

# 3.9.5 Holiday

It can configure the record or image capture schedule for holidays of the current year.
No.         Holiday Name         Status         End Date         End Date         Edit           Ma         Holiday Name         Status         Status         Status         End Date         End Date         Edit           Ma         Holiday Name         Status         Status         Status         Status         End Date         Edit           Ma         Holiday         Disable         T-1         T-1         T-1         T           Ma         Holiday         Disable         T-1         T-1         T         T
Ma Héhiday Namet Szaha State End Date End Date 1 Heliday Disable 1-1 1-1 / PP J Heliday Disable 1-1 1-1 /
1         Halday         Diable         1-1         1-1         /           9*         .3         Hollday         Diable         1-1         1-1         /
go J Holiday Disable 1-1 1-1 J
3 Holiday Disable -1-1 1-1
5 Holdey Disable 1.1 V.1
5 Holiday Disable 3-1 3-1
al Settings 6 Holiday Dicable 1-1 1-1
ork 7 Holiday Disable 1-1 1-1 x <sup>4</sup>
Plie Manager 8 Holiday Disable 1-1 1-1 v <sup>a</sup>
9 Holday Disable 1-1 1-1
10 Holday Disable 1.1 1.1 .
i Filter 11 Holday Disable 1.1 1.1
Mande 12 Holday, Disable 1-1 1-1 2 <sup>4</sup>
18 Holday Disable 3-1 3-1 4 <sup>4</sup>
14 Holdey Disable 1-1 T-1 a <sup>th</sup>
15 Holiday Disable 1-1 1-1 a

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

	Edit Holiday	
Holiday Name	Holiday	
Enable Holiday		
Туре	By Month	$\sim$
Start Date	Jan \vee 1	$\sim$
End Date	Jan 🛛 1	$\sim$
	OK Cance	el

3.9.6 User

=	Milesight	User				
	Local Configuration	Usey	Security Question			
	Camera	No.	Buer Name	Unity Levent	Echt	Defete
0	Storage	1. J	admin	Admin	14	
	Event	2	PD-	Operator	5	10
	System		alian-	Viewer	1	-
	Onment Settings Network Autor För Mänager Holday	Ada				
	Access Filter					
	Mantenance					
L						
L						

#### **Note:**

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

#### Add a new user

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

	Add User
Admin Password	•••••
User Name	alison
Password	•••••
Confirm Password	•••••
User Level	Operator 🗸
User Permissions	Edit
	OK Cancel

### **Note:**

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

### **Edit user limits**

Select a user, when the background color changes into dark gray, click to edit user permissions. User Permissions include Operation Permissions and Channel Permissions.

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

peration
t
Audio
trol
ings
onfiguration
Alarm Output
de
lode Operation
peration
t
ort
vsis
aly

				Edit Us	er Per	missions			
	Operation P	Permissions	Channe	I Permissions					
.0	cal				Ren	note			
	☑ Live Viev	v Operation			1	🗸 Live Viev	v Operation	n	
	<b>V</b> 1	2	<b>V</b> 3	☑ 4		<b>V</b> 1	2	<b>⊠</b> 3	☑ 4
	5	<b>⊠</b> 6	7	8 🔽		5	<b>⊠</b> 6	7	8 🔽
	9	<b>V</b> 10	<b>V</b> 11	✓ 12		9	<b>V</b> 10	<b>V</b> 11	<b>V</b> 12
	<b>V</b> 13	<b>⊠</b> 14	<b>V</b> 15	<b>V</b> 16		<b>V</b> 13	<b>V</b> 14	<b>V</b> 15	<b>V</b> 16
	☑ Playback	Operation			1	🗸 Playback	Operation		
	<b>V</b> 1	2	<b>V</b> 3	☑ 4		<b>V</b> 1	2	<b>V</b> 3	☑ 4
	5	<b>⊠</b> 6	7	8 🔽		5	<b>⊠</b> 6	7	8 🔽
	<b>9</b>	<b>1</b> 0	<b>V</b> 11	<b>V</b> 12		9	<b>V</b> 10	<b>V</b> 11	<b>V</b> 12
	<b>V</b> 13	<b>√</b> 14	<b>V</b> 15	<b>V</b> 16		<b>V</b> 13	<b>V</b> 14	✓ 15	<b>V</b> 16

Ca

### 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.

	Edit User	
Admin Password		
User Name	alison	
Change Password	Enable	$\sim$
New Password	••••••	
Confirm Password	••••••	
User Level	Viewer	$\sim$
User Permissions	Edit	
	OK Cancel	

### **Delete user**

Select a user and click  $\blacksquare$  to delete a user.

### **Modify Security Question**

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

User	
User	Security Question
Password Authentication	1
Admin Password	
Security Question Setting	g (Questions are already set!)
Security Question1:	What's your favorite sport? $\checkmark$
Security Answer1:	
Security Question2:	What's your lucky number? $\checkmark$
Security Answer2:	
Security Question3:	What's your favorite food? $\checkmark$
Security Answer3:	
ОК	

### **-**Note:

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

### 3.9.7 Access Filter

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

-	Milesight	Access Fil	lter	
-	Local Configuration	Access Filter	Disable	
Kipes Vinnes	Cemera	Глан Турн	Allow	
9	Storage	Add	Delete	
Philipping	Event		Address	Edit Deleto
Sale -	System	10	192363660,111	Jr (1)
177	Gaussial Gettings	Saye	1	
STA.	Andrewski Andrewski Manaami			
*	mining			
Settings	User			
3,8	Access Filmer			
-				
-				
E.				
Cognil				

### Step1.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
71	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	$\sim$
IP Address Rule	Single	$\sim$
IP Address		
	OK Cance	
	OK Cance	

	Add Address
Address Type	IP Address 🗸
IP Address Rule	Range
IP Address	· · · · ·
	OK Cancel

Method 2: Add the address via MAC.

	Add Address	
Address Type	MAC Address	$\sim$
MAC Address	1 1 1 1 1	

Step 4. Then click "Apply" to make Access Filter effective.

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

	Edit Address
Address Type	IP Address
IP Address Rule	Single
IP Address	192.168.7.22
	OK Cancel

### **Note:**

- 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.
- If Access Filter is enabled and Filter type is Deny, but no address is added to the table, then all addresses are allowed to Access the NVR.

### 3.9.8 Maintenance

### Local Upgrade

	Milesight	Maintenance
-	Local Configuration	Inul Hoppide Dhrine Lograde Import/Espert Contis. Reboot Pleat Diagnosis Information
k V)	Centera	Remark
9	Storage	Reverse settings to factory default (except IP Address and User Information)
Playback	Event	Lippani
Street man	System	Note: The upgrading process will lake 5-10 minutes, please don't disconnect power of the sin-less shares will reboot automatically after organization.
	General Settings	
En la compañía de la Compañía de la compañía	factorisk	
20	Audio IIIa Manager	
Settings	Hokday	
	Access Filter	
AT .	Mentensioe	
125.		
Lop		
F#		
Logost		

Step1.Click "Browse" and select the corresponding firmware you downloaded in your USB;

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

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

**Note:** The system will auto reboot after confirming upgrade.

### **Online Upgrade**

-	Milesight	Maintenance
-	Local Configuration	Land Upgrade Uniter Upgrade Import/Export Config. Rebot Baset Diapensis Information
Vin Vin 9 Flayback	Camera Storage Event	Model (MSEN7015-UPH) Software Version //I/60.14- Lafest Version
Roman and Sections	System Ownersk Settings Network Austor File Manager Helday Litar Access Kite- Mantonyore	Clerk
logad		

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.

**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.

#	Milesight	Maintenance	
-	Local Configuration	Uneal Upgrade Online Upgrade Inconfiguration Config Related Result Diagnosis Information	
Look Views	Cameta	Import Carligertion File	
9	Storage	Configuration File	
Stryback,	Event	Upload	
25	System	Eport Configueiton Tite	
1220	General Settings	Buckup	
	Namek		
*	Holday		
Settings	Liner-		
柴	Anders Filter		
Steere	Mainterpende		
12			
-			
logat			

### Auto Reboot

11	Milesight	Maintenance
-	Local Configuration	Local Upgright Delare Upgright Inspect/Expect Config Material Manual Comparison determination
kini ya	Camera	Potent
5	Storage	Pedent
Harden R	Event	Avia Person
Retrieve	System	Nuto Respons
1.1	General Settings	Day bonystay
Emert Au	Network	Tome 100 - 00 - 00 - 1
4	Audio File Manager	Save
Settings	Un	
24	Access Filter	
States	Maintepage	
12-		
top:		
E.		
10000T		

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".



### **Diagnosis Information**

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



### 3.9.9 Hot Spare

Configured as the architecture of N pcs Master NVRs and 1 hot spare Slave NVR, 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 Mode	Master Mode	$\checkmark$
Slave IP Address		
Slave Admin Password		
Slave Status		

### 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.

	No.	IP Address		MAC Address	Model	
				(	Search	Add
aster Statu	ID Addross	MAC Address	Model	Connection Statue	Working Status	Delete
NO.			Model	Connection Status	Working status	Delete

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.

- 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.
- 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**

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

### **Device Information**

	Device Information	About	
Mod	lel	MS-N7016-UPH	
MAG	C Address	1C:C3:16:0A:E8:D2	
SN /	\ddress	7420150003	
0.117			
Haro	Iware Version	V2.0	
Soft	ware Version	71.9.0.14-a4	
Upti	me	15:57:25 up 6:47	

About

# **Device Information**

Device Information	About	
Open Source Software Lice	nses	
View Licenses		

### Click "View Licenses" to jump to the web link that shows the Open Source Software Licenses.

The Status	S 152 108.7.129	- DC	
Legel i Copyright nut	ices and Open Yource 1	tweek Linnes	1
1.All software listed	hereis is provided wi	and any lightilly us Warganty from Shelt oppyright dolders.	
J.All software linked	Arrein is oppyright b	the respective solution, blease see the mounts code for metailed information,	
J.All information here	in applies to METHOS	VIDEO BECORGE.	
4. This product contain OFFER to sadwing south This product contains 2-mail address; achris Fleese indicate the mo	na aoftware ("Open Son DE CODE Wiftware ("OPL-Linson syeff126068pnail.com odel mame and the open	s Bartware" (that is provided to you under open source licenses. How open source licenses give you the sight to whain a comp of source inde. ( Bartware") that is provided to you under the UNT Desers! Public licenses ("VPE") A map of the UFE is included in this file. Tou den jet a popy of its source node for the gal-licensed est ing system measurm number. We ware to portice a letter source and	
5.5010Ware flowmeet an GOC Sibrary Frant Linux Martel buaybox 5.30,2 udev 184 ppp - Beuls 200 M rp-pppes-3.8 tibeKosip2 Inadyn libeap-2.3	nner the GMU General t e that an exception c) eckeçe 1.4.1	lin Lienne (DE) is inclused in this project. These smerk appendix I below for the sensil sense of this ligense. Specifically, the following software inclused in this product is an applied o	
S.Software licensed in	MAR the GHD Geoeral 1	lis blocket (SVD). Verdica a is included in this product. Deate check Appendix 1 selev for the debeat series of this lidence. specifically, the following software included in this product 1	
LibiconV-1:14			
7.Software licensed un libosip licersp	nder the GHU Lesser Ge	wal Public Lionne (LORL), Version 3.1 is included in this produce. Please where Appendix 3 below for the detail earns of this lionnee. Specifically, the following poftware included in this	¢:
C.Software Linemand in	nter a modified 855 1:	nae is included in this promut, Flease their Appennix 4 beinv for the detail terms under Vnich software is ubeributed.	
CryptoJE 0-0-0 crypt100 md5-3% JBOH2 utid itbopnp-1-6-10			
SuSoftware licensed up	uter the HIT License :	included in this product. Please inset Appendix " below for the detail terms of this livenes. Therifically, the following software included in this product is the HIT lowneet	1
iquery.js 1.8.3 iquery.grande.js fquery.grande.js iquery.ou.stiker- iquery.gails.js iquery.dat.st iquery.dat.an iquery.dat.an	.ja Nipa-je		
10.foftware popyright freetype-2.6.3	by The FreeType From	on included in this promine. Finane wer Appendix 7 below for the veron under which this safevers is distributed.	
<pre>\1.Bofcware copyright Open351 1.0.2h</pre>	by The Open351 Pinjer	is included in this product. Fleese their Appendix F being for the detail terms of this license under which this entreare is distributed.	

# 3.10.2 Network Status

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

#### **Network Status**

N	lilesight	Network St	atus		
	Status	Network Statu	s Network Tell		
ţ	levice Information	Roceive Bandwid	ith .		
16	etwork Statue.	Fran	145.5Mbpn	Used	13.5Mbps
	Camitra Statute	-			
1	Disk Status	LAN1			
E	vent Status	Connection	Link is up - 100Mbos Dup	plain.	
1	üreup Status	TPv4 DHCP	Disable	IPv6 Mode	Manual
	Online User	IP Address	192,168,69,168	IPv6 Address	
	Racket Cantum Vod	IFv& Netmask	255.255.255.0	IPv6 Prefix Length	
		IPv4 Gateway	192.168.69.1	IPv6 Gateway	
		Prefeméd DNS Server	218.85.152.99	Alternate DNS Server	144,144,144,144
		MAC	1C:C3;16;0A:E8:D2	MTU	1500
		Receive Rate	11,92Mbps	Send Rate	226.13Kbps
		and the second s	_		_
		LANZ	Hat have shown in a star		
		Connection	Link is up - 1000Mpps Du	ibies:	
		IPv4 DHCP	Disable	IPv6 Mode	Manual
		IP Address	192.168.10.1	IPv6 Address	
		1994 Netroask	255-255-255.0	IPvb Prefix Length	
		Brodemed DNS	192.168.10.1	Alternate DNS	
		Server	8.8.8.8	Server	
		MAC	1C:C3:16:0A/E8:D3	MTU	1500
		Receive Rate	0.00Kbps	Send Rate	0.00Kbps

### **Network Test**

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

1	Milesight	Network Status	
+	Status	Network Status Methods Text	
tim view	Device information	Particulos Addess 1159 160.03 160	
9	Network Status		
Flayback	Camera Status	Peter meter Peter in you have you had you had by peter Peter in you have you had by the peter in you have been and the peter in you have been and the peter in you have been and the peter in your have been and the peter in	
-	Disk Status	64 bytes /rom 192,168,68,168 sage 1 til=64 bree=0.073 ms 64 bytes /rom 192,168,691 66 sage 2 til=64 bree=0.073 ms	
	Revert Status	64 bytes from 192;184,837;468 seq.2 ft 11-64 time=.0.091 ms 64 bytes from 192;184,807;468 taq.40 ft 11-64 time=.0.091 ms	
Rowarte	Group Status	jši bjeta timo 192. 168.09,165 daga 5 tili 56 daga 0.004 mi.	
	Online User	64 bytes from 192-168.04.96 tage 7 thi e44 time=0.077 ms 64 bytes from 192-168.04.96 tage 7 thi e44 time=0.057 ms	
Sectionyo Sectionyo Status	Packet Capture Tool	Ad bytes from 192, 194, 65, 1962, aug91 fft i strike three-0.0278 ms Ad bytes from 192, 194, 65, 1962, aug91 fft i strike three-0.0268 ms. Ad bytes from 192, 194, 65, 1962, aug11 fft i strike three-0.0268 ms. Ad bytes from 192, 194, 95, 1962, aug12 fit i strike three-0.0288 ms. Ad bytes from 192, 194, 95, 1962, aug15 three fit three-0.0286 ms. Ad bytes from 192, 194, 95, 1962, aug15 three fit three-0.0286 ms. Ad bytes from 192, 194, 95, 1962, aug15 three fit three-0.0286 ms.	
legad			

# 3.10.3 Camera Status

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

nnel	Name	IP Address	Record	Frame Rate	Bit Rate	Frame Size	Status	
t	CAMI	192.168.64.81	On	24fps	4159Kbps	1920x1080	0	
2	CAM2	192.168.69.161	off	24fps	2831Kbps	2592x1944	0	
ŝ	CAM3	192.168.69.135	Off	0fps	OKbps	0x0	<b>A</b>	
4	CAM4	192.168.69.166	Off	Ofps	OKbps	0x0	<b>A</b>	
5	CAMS	192.168.69.182	Off	Ofps	OKbps	0x0	A	
5	CAM6	192.168.69.162	On	25tps.	4770Kbps	1920x1080	0	
7	CAM7	192.168.69.204	On	25fps	4247Kbps	1920x1080	0	
8								
9.		1.00	*				-	
0								
1								
2								
3								
4								
5								
6								

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

		Current Power Consumption	Status
12	192.168.69.161	2.54W	Disconnected
2			
3			-
4			
5			
6			-
7			
0			
9			
10			
11			
13			-
-14			
15			
16			
τ.			
Power Consumption	2.54W		
naining Power Consumption	197.46W		
ine and control control (prior)			
te:			

## 3.10.4 Disk Status

#### **Disk Status**

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

Disk Status						
Port	Vendor	Status	Total	Free	Type	Property
4	WDC WD10EJRX-89N74V0	Warning	931.51GB	0	Local	W.B
Total Capacity	.931.51G8	C				
Available Capacity	0					
Refresh						

### 3.10.5 Event Status

#### **Camera Event**

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

into when the corresponding alarm is triggered.

Anima .	Namé	IP Address	Video Loss	Motion	Audio Alarm
1	CAMT	192.168.64.81	<b>n</b>	<u>n</u>	<u>n</u>
2	CAM2.	192,168.69.161	<b>a</b>		B.
5	CAMB	192.168.69.135		۵	<b>A</b>
4	CAM4	192.168.69.166	۵	<u>n</u> .	<u>n</u>
5	CAM5	192.168.69.182		۵	
6	CAM6	192.168.69.162	n.	<u>n</u>	n
7	CAM7	192,168.69.204	<u>n</u>	<u>n</u>	<u>n</u>
Ð	CAMS	192,168,69,161		В.	<u>n</u>
9	142			1a -	
10					
- m			-		
12					
13					
14					
15					
16					

### Alarm Input/Output

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

will turn into ewill 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.

Camera Event	Alarm input/Output	VCA		
Alarm Input List				
No.	Alarm Name	Alarm Type		Status
i		NO		д
2		NO		
3		NO		а.
A		NO		
5		NO		<u>n</u>
5		NO		
7		NO		11
8		NO		11
Alarm Output List				
No.	Alarm Name	Alarm Type	Dwell Time	Status
Υ	111	NO	54	<u>n</u>
2		NO	50	<u>n</u>
3		ND	56	<u>n</u>
4		NO	58	2
00.1				
CH1_2				
CH2_1		NC	59	<u>A</u>
Arita in		NC	56	<b>A</b>

### VCA

100	14.00		-								
Came	ra Event	Alærm Input/C	lutput	VLA							
annel	Name	IP Address R	legion Entranc	e Region Exiting A	dvanced Motion Detection	Tamper Detection	Line Crossing	Loitering	Human Detection	Object Left/Removed	
1	CAM1	192.168.64.81		<u>n</u>	<u>n</u>	n		<u>n</u>	<u>n</u>	n	1
2	CAM2	192.168.69.161		п	n			а		<u>n</u>	
3	CVW3	192.168.69.135	<u>n</u>	*	<u>n</u>	<u>n</u>	8	<u>n</u>	<u>n</u>	<u>n</u>	
4	CAM4	192.168.69.166			n	M.	п	11	<u>a</u>	<u>n</u>	
5	CAM5	192.168,69.182	<u>n</u>	<u>n</u>	<u>n</u> .	<u>n</u>		<u>n</u>	<u>a</u>	<u>n</u>	
6	CAM6	192.168.69.162					11	<u>A</u>			
7	CAM7	192.168.69.204	<u>n</u>	2	<u>n</u>	<u>n</u>	2	<u>n</u>	<u>a</u>		
ŝ	CAM8	192.168.69.161		<b>n</b>	<u>n</u>	12	2	12	<u>a</u>		
ę.	× .	-			-	*	-				
10											
11											
12											
13											
14											
15											
16											

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

# 3.10.6 Group Status

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

Sort by Group         Sort by Channel           nation:
Instant         Group         Diak         Dharpad           n         1         A428         •4(3425478010713113131413161           2         1         -         -           2         1         -         -           3         -         -         -           4         -         -         -           5         -         -         -           6         -         -         -           10         -         -         -
ns a 1 1 1 1 1 1 1 1 1 1
n 1 LA28 LA367784101512121341512 2 1 2 1 4
ar Sad
2 1 4 6 6 7 7 8 7 8 7 9 9 10
4 4 4 4 4 4 4 4 4 4 4 4 4 4
4
a Tad 6 7 8 9 10
7 4 4 10
9 9 10
9 10
10
10

## 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.

	10 mm						
	Milesight	Online User					
	Status	Robush					
	Device Information			_			
L	tertimorie Status	Nn.	User Name	User Level	IP Address	User Login Time	Add to Access Filter
	Camera Status	1	admin	Admin	192,168,69,22	2022-02-21 15:33,53	*
	Cink Stabia	2	udiniin	Admin	192,168,69,19	2022-02-21 15(34:15	1
	Event Status						
	Group Status						
	Online (have						
	Packet Capture ISO						
L							
L							

The IP address can be added to Access Filter interface from Online User interface directly.

No.	User Name	User Level	IP Address	User Login Time	Add to Access Filt
1	admin	Admin	192.168.7.25	2021-06-24 02:23:09	Ð
				Message from webpage X	

### 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.

# Packet Capture Tool

IP	192.168.14.103	
Port	8083	
NIC	eth0	$\sim$
Start	End Download	

**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.

Milasiaht	No.	Main Type	Time	Sub Type	Parameter	Channel	User	Remote Host IP	Details
Z I liesignt	1	Operation	2022-03-14 17:16:39	Remated.ogin	N/A	N/A	admin	192.168.17.2	8
Log Search	2	Event	2022-03-14 17:16:35	Start Motion Detection	N/A	1	N/A	N/A	1
-	3	Event	2022-03-14 17/16:35	Stop Motion Detection	N/A.	1	N/A	N/A	8
Start Time	4	Event	2022-03-14 17:16:34	Start Advanced Motion Detection	N/A	.2	N/A	N/A	8
S End Time	5	Event	2022-03-14 17:16:34	Start Advanced Motion Detection	N/A.	3	N/A	N/A	8
laylanki 2022-03-14 23:59:59	6	Operation	2022-03-14 17/16:31	RemoterLogout	N/A.	N/A.	N/A	192.168.17.2	8
Channel	2	Event	2022-03-14 17:16:30	Start Advanced Motion Detection	N/A	2	N/A	N/A	2
🛋 🖸 CH Name	0	Event	2022-03-14 17:16:10	Start Advanced Motion Detection	N/A	1	N/A	N/A	8
🖬 N/A –	0	Event	2022-03-14 17:16:27	Start Advanced Motion Detection	N/A	2	N/A	N/A	Ø
🔁 t CAM1	10	Event	2022-03-14 17:16:25	Start Motion Detection	N/A	ï	N/A	N/A	Ø
aut An 🖬 2 CAM2	11	Event.	2022-03-14 17/16/25	Stop Motion Detection	N/A	3	N/A	N/A	B
2 1 CAM3	12	Event	2022-03-14 17:1622	Start Advanced Motion Detection	N/A	2	N/A	N/A	e
A CAM4	18	Operation	2022-03-14 17:16:22	RemoteLogin	N/A	N/A	admin	192.168.69.12	e
S DAMS	34	Event	2022-03-14 17/16/21	Start Advanced Motion Detection	N/A.	3	N/A	N/A	8
🔆 🖬 8 CAMS	15	Event	2022-03-14 17:16:19	Start Advanced Motion Detection	N/A	2	N/A	N/A	8
Ranke 🖬 7 CAM7	36	Operation	2022-03-14 17:16:19	Remote Login	N/A	N/A.	admin	192.168.17.2	8
B CAMB	17	Event	2022-03-14 17/16/18	Stop Advanced Motion Detection	N/A.	3	N/A	N/A	2
🔀 🧟 9 CAM9	18	Event	2022-03-14 17:16:15	Start Motion Detection	N/A	1	N/A	N/A	2
2 10 CAM10	19	Event	2022-03-14 17:16:15	Stop Motion Detection	N/A	1	N/A	N/A	Ø
Ee Main Type	20	Event	2022-03-14 17:16:14	Start Advanced Motion Detection	N/A	2	N/A	N/A	Ø
All III	21	Event	2022-03-14 17:16:10	Start Advanced Motion Detection	N/A	2	N/A	N/A	e
All	22	Event	2022-03-14 17:16:07	Start Advanced Motion Detection	N/A.	.21	N/A	N/A	8
	23	Event	2022-03-14 17:16:06	Start Advanced Motion Detection	N/A	1	N/A	N/A	Ø
	24	Event	2022-03-14 17:16:05	Start Motion Detection	N/A	1	N/A	N/A	8
	25	Event	2022-03-14 17:16:05	Stop Mation Detection	N/A.	3	N/A	N/A	8
	26	Event	2022-03-14 17:16:02	Start Advanced Motion Detection	N/A	2	N/A	N/A	e
	27	Event	2022-03-14 17:15:56	Start Advanced Motion Detection	N/A.	1	N/A	N/A	2
	28	Event	2022-03-14 17:15:55	Start Advanced Motion Detection	N/A.	2	N/A	N/A	2
Search	29	Event	2022-03-14 17:15:55	Start Motion Detection	N/A	1	N/A	N/A	Ø
	50	Event	2022-03-14 17:15:55	Stop Motion Detection	\$4/A	1	N/A	N/A	8
Eport				Contraction of the local division of the	Total 10000	item(s) < <	1/10	0 <b>&gt; &gt;</b>	60

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

Milociaht	No	Main Type	Tatter	Sub Type	Farameter	Download	źs	D a \$	P
miesigni	1	Operation	2022-01-26 15:20:10	Remote Login	N/A	All log	1CC3160AE8D2 :	20220126152016.cm	
Log Search	2	Operation	2022-01-26 15:19:28	Remote Login	N/A	Chen to			
	4	Information	2022-01-26 15:16:10	Start Record	N/A	See more			1
x022-01-26 00.00.00 III	4	Information	2022-01-26 14:42:01	Start Record	N/A		_		-13
nd Time	1.1	Information	2022-01-26 14:07;52	Start Record	N/A	1	N/A	N/A	1
022-01-26-2859:59	-0	Information	2022-01-26 13 51 54	S.M.A.R.T Information		54/A -	N/A.	11/A	
unnel.	7	information	2022-01-26 18:51:54	SMART Information	NA	56/4	N/A.	11/A	
DH Name	8	Information	2022-01-26 13:33:48	Start Record	NA		N/A	11/A	
6 N/A	9	Information	2022-01-26 1516:27	Start Record	N/A	4	Ri/A	N/A	
T CAMI	10	Information	2022-01-26 12:42:19	Start Record	N/A		N/A	N/A	
a cama		Information	2022-01-26 12:08:10	Start Record	N/A	4	R/A	N/A	
E O CAMO	12	information	2022-01-26 11 51 52	SMART Information	N/A	N/8	N/A	N/A	
A CAMA	13-	information	2022-01-26 11:51:52	S.M.L.C. Information	N/A.	N/A	75/A	NIA	
e cans	18	Operation	2022-01-26 11:36:58	RemoteLogin	N/A	N/5	admin	192,168,69-22	
6 CAM6	15	Diception	2022-01-26 11:36:50	Video Loss	N/A.	1	14/4	N/A	
7 CAND	16	Operation	2022-01-26 11:35:26	Remoteilogin	N/A	N/A	admin	192,148,69,22	
8 CAMS	17	Information	2022-01-26 11:14:01	Start Record	N/A		74/A	N/A	
s cans	18.	Operation	2022-01-26 11:33:56	Remote Login	N/A	N/A	admin	192,168,8922	
10 CAM10	13-	Operation	2022-01-26 3 52-26	Remotellogin	N/A	N/A	admin	192 168 69 22	
in Type	-20	Operation	2521 01-26 11:30:56	RemôteLógin	N/A	N/A -	admin	192 168 69 22	
-	27	Operation	2022-01-26 11:29:25	RamoteLogin	NA	N/A	admin	192.168.69.22	
All	22	Operation	2022-01-26 11:29:02	RemoteLogin	N/A	NVA -	admin	192 158 69 19	
	21	Operation	2022-01-26 11:27:58	Remote Login	N/A -	5605	admin	192 1/01/09 22	
	24	Operation	2922-01-26 11:26:28	RemoteLogin	N/A	NW.	atmin	192 168 69 22	
	25	Opation	2022-01-26 11:24:58	Remote Login	N/A	N/4	admin	192,168,69,22	
	-26	Operation	2022-01-26 11:23:26	RemoteLogin	N/A	N/8 -	admin	192,168,69,22	
	27	Operation	2022-01-26 11:21:58	RemoteLogin	N/A	N/A	nimba	192,168.69.22	
	20	Operation	2022-01-26 11:20:28	RemóteLogin	N/A	NA	admin	192,168 69 22	
Smith	29	Operation	2022-01-26 11:18:58	Remotelogin	N/A	N/A	admin	192,148,69,22	
	50	Operation	3022-01-26 11 17:28	RemoteLogin	N/A	N/A	admin	192,168.69.22	
Export	.81	Operation	2522-01-26 11:15:58	Remote Login	N/A	N/A	admin	192 168 69 22	
	32.	Operation	2022-01-26 11:14:28	Remote Login	N/A	N/A	admin	192.168.69.22	
	33	Operation	2022-01-26 11:12:58	RemoteLogin	N/A	N/A	admin	192 168 69 22	
		Operation	2022-01-26 11 11 26	Remote Login	N/A	14/6	admin	192 168 69 22	

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

- Region Entrance
- Region Exiting
- Advanced Motion Detection
- Line Crossing

• Loitering

	De	etails				
Time	2021-02-22	02:05:45				
Туре	Event - Star	Event - Start Advanced Motion Detection				
Local User	N/A	N/A				
Remote Host IP	N/A					
Parameter	N/A	N/A				
Channel	4	4				
Log Information:						
Channel:4 Stream Type: Pri Detection Object	imary Stream t:Human					
	Previous	Next	Back			

# 3.11 Logout

Click to exit the current account.



# Chapter 4. Services

Milesight provides customers with timely and comprehensive technical support services. End-users can contact your local dealer to obtain technical support. Distributors and resellers can contact directly with Milesight for technical support.

Technical Support Mailbox: support@milesight.com

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

Online Problem Submission System: http://www.milesight.com/support/feedback.asp

### MILESIGHT USA

TEL: +1-800-561-0485

Add: 220 NE 51st ST, Oakland Park, Florida 33334, USA

### MILESIGHT KOREA

TEL: +82-2-839-3335

Add: 9F/925, 25-32, Anyang SK V1 Center, LS-ro 116beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, Korea

### MILESIGHT CHINA

TEL: +86-592-5922772

Add: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China