



## Video Management System Enterprise User Manual

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# Chapter 1. Introduction

## 1.1 Copyright Statement

This manual may not be reproduced in any form or by any means to create any derivative such as translation, transformation, or adaptation without the prior written permission of Xiamen Milesight IoT Co., Ltd(Hereinafter referred to as Milesight).

Milesight reserves the right to change this manual and the specifications without prior notice. The latest specifications and user documentation for all Milesight products are available on our official website <u>www.milesight.com</u>.

### 1.2.1 Introduction

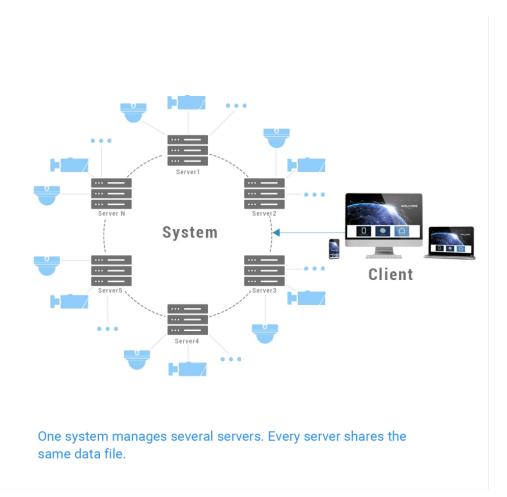
Milesight Video Management System Enterprise (hereinafter referred to as VMS) is one of the most innovative and most powerful video management software systems on the market, and it will fulfill your highest requirements and expectations. The simple and intuitive design requires little training while providing easy operations to preview, record video, add maps and alarm, etc. VMS adopts Client/Server architecture, which greatly improves the performance and efficiency of video storage, video forwarding and video Analytics, etc. It is a future-proof network video solution for large projects and can manage unlimited network cameras via unlimited working servers in different locations. The multi-level user authority management allows various user organization authority management and allocation. It's able to integrate with other cameras over ONVIF.

This manual describes how to use and manage "Milesight VMS Enterprise" in your network environment. Some knowledge of network environment would be beneficial to the readers. Should you require any technical assistance, please contact authorized service center.

## 1.3.1 Key Features

- Support ONVIF.
- Support H.265/H.264 video compression.
- Support more than 2000 channels per system/25 servers per system (The numbers given are recommended minimum, additional scalability would be determined based on specific usage requirements).
- Support manage Milesight IoT sensors.
- Support E-Map (Offer users a complete visual overview of the devices locations).

- Support Advanced PTZ function.
- Support up to 64 live view channels per monitor with main or sub streams optional.
- Support self-adaptive layout.
- Support up to 64 channels synchronous or asynchronous playback.
- Support the Event & Alarm for prioritizing, processing, categorizing alarm data, and triggering versatile alarm actions.
- Support Smart Search, Video Synopsis, Timeline Thumbnail etc. for evidence forensic.
- Support quick locating & playback by tags, events.
- Support split playback (Split one video into multiple clips and play them back simultaneously).
- Support multiple kinds of overlays for exported videos.
- Support local and NAS storage.
- Support account management (Flexible customization of the privilege of the roles).
- Friendly GUI for easy operation.
- Alarm can be triggered in real time by various events including VCA, multiple alarm actions can be enabled at the same time.
- Support Fisheye Dewarping in both live view and playback.
- Support Smart Analytics like ANPR, VMS-end People Counting and VMS-end Video Analytics.
- Support AI Box Events, including Fall Detection and Face Recognition.
- Support N+M Failover (Any functioning server with failover function on and valid licenses will take over the cameras of the failed server. The cameras with record on will keep recording).
- One system manages several servers. Every server shares the same data file.



# Chapter 2. Installation

### 2.1 Software Overview

An installation of "Milesight VMS Enterprise" has two components: Server software and Client software.

"Milesight VMS Enterprise Server" is the intelligence management system forward the RTSP stream, and the Client software is used to log in the server and provides the user interface for all tasks including monitoring, searching, exporting and configuration. "Milesight VMS Enterprise Client" allows users in different locations to log into the server. If users have the privilege, they are able to change the system configuration.

### 2.2 System Operation Environment

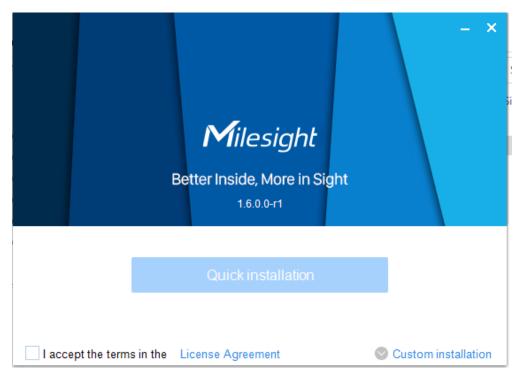
	CPU	Intel Core i5 @2.9GHz or above
	Memory	4GB or above
	HDD	HDD/SSD
	GPU	Recommend, discrete graphics card will be better
Client	Graphic Memory	2GB or more
	Display Resolution	1280 x 720 or above
	Network	1 Gbps or above
	OS	Windows8/10/11,Windows Server 2008/2012/2016/2019/2022
	CPU	Intel Core i3 @2.3GHz or above
	Memory	8GB or above
Server	HDD	HDD/SSD
	Network	1Gbps or above (10Gbps recommended)
	OS	Windows8/10/11,Windows Server 2008/2012/2016/2019/2022

## 2.3 Installation Guide

Run the Milesight VMS Enterprise installation file and install the programs on your computer by following the on-screen instructions. After finishing installation, you will find the programs on the start menu or on the desktop.

Step1: Double click the installation file;

Step2: Check I accept the terms in the License Agreement ;



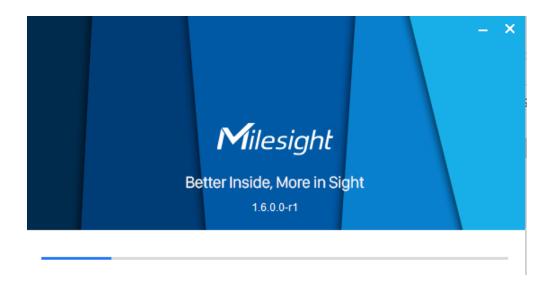
You can click Custom installation button to select the destination folder and customize the installation options, including Install both Client and Server, Install client only and Install server only as shown below. Here you need to install both Client and Server to finish complete installation.

E	Milesight Better Inside, More in Sig 1.6.0.0-r1	– × Iht
	Quick installation	
C:\Users\Lix\De	sktop\Milesight VMS Enterpri	se\
✓ Install client	✓ Install server	Install video wall
✓ I accept the terms in the	License Agreement	Oefault installation

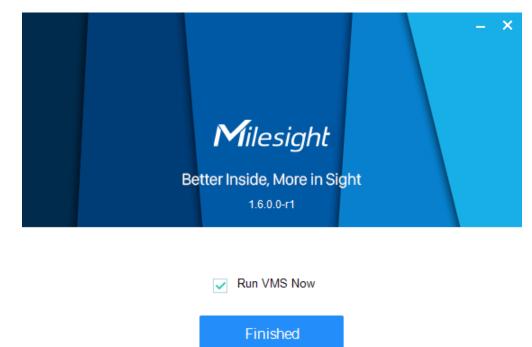
#### Bote:

- 1. The default installation folder is C:\Program Files\Milesight VMS\Enterprise.
- 2. The default installation options is "Install both Client and Server".

**Step3:** Click Quick installation to install;



**Step4:** Click Finished button to finish the installation.



**Note:** It will automatically repair the VMS program in the background to restore the running file when it is lost due to the installation environment.

### 2.4 Login and Operations

### 2.4.1 How to Execute VMS Enterprise

Step1: Start "Milesight VMS Enterprise Server" first;

Double click the icon to start the server after installation, then all the cameras on the server will load automatically.

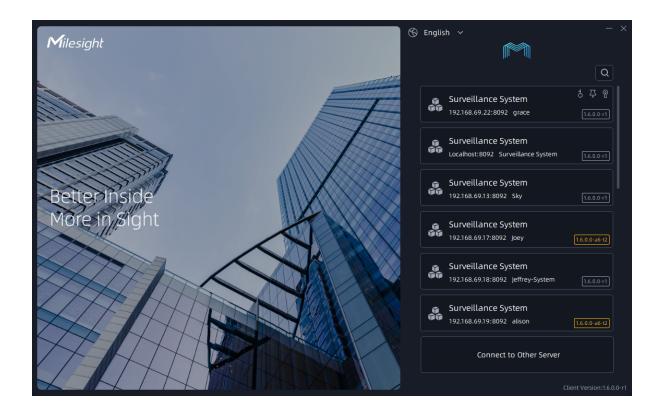
**Note:** When the services of VMS Server, Video Wall and Video Analytics stops, a confirmation popup will pop up to confirm the operation.

Stop Se	rvice		×
$\diamond$	Are you sure t	o stop it?	
		Yes	Cancel

Step2: Then, start "Milesight VMS Enterprise Client";

Double click the icon to start the software after starting the Milesight VMS Enterprise Server. There is a dynamic icon as shown below, and please wait for a few seconds, then a window will pop up as below:





Before using "Milesight VMS Enterprise Client" for live view, you need to create VMS system first. Then you are able to add the cameras via different servers. Only after adding the server and cameras, can you use functions like Live View, playback, E-map, etc.

There are three ways to login in the Milesight VMS system:

- 1. Directly connecting existing system in the list.
- 2. Login VMS client interface by adding undefined server to a new system or a existing system in the list.

**Step1:** Choose undefined servers which can be searched automatically in the local network;

**Step2:** Click the "Undefined Server" and the window will show as below:

Milesight	- ×
	Server Address
System	192.168.69.19
	Add to System
E Server 1 E Server 2 ··· E Server 3	
Every computer where VMS Server is running works as a server in the system. Any undefined server can be created as a new system or added to an existing system. You can login in the system via any of the server addresses.	
€ System	
2. Owner 1 2. User 2 ···· 2. User 3	Save Password
There is only one 'Owner' user in the system, and other users can be	Auto Login
created by 'Owner' or 'Administrator'. Set an owner user if you are going to create the undefined server as a new system, or enter the Owner's authentication credentials of the existing system.	Connect After Save
addientication credentiats of the existing system.	Save
	Cancel

Step3: Select to add undefined server to a new system or an existing system;

- ×	- ×
Server Address	ابر برا Server Address
192.168.69.19	192.168.69.19
Add to System	Add to System
Surveillance System 192.168.69.21 🗸	Surveillance System
New Server Name	New Server Name
User Name	User Name
Owner Name	Set Owner Name
Password	Password
hyper	h
	Confirm Password
Save Password	Save Password
Auto Login	Auto Login
Connect After Save	Connect After Save
Save	Save
Cancel	Cancel
Client Version1.5.0.1	Client Version1.5.0.1

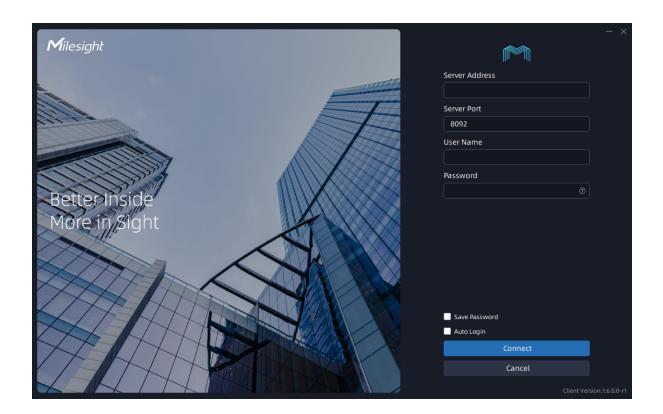
**Step4:** After configuring the settings, click Save button to connect. The servers will be added to VMS system successfully.

**Note:** Users can add undefined servers to VMS systems in different LANs.

Milesight	- ×
	Server Address
System	192.168.69.31
	Add to System
Server 2 ···· Server 3	Surveillance System 192.168.69.23
	Surveillance System 192.168.69.30
Every computer where VMS Server is running works as a server in the system. Any undefined server can be created as a new system or added	Surveillance System 192.168.69.17
to an existing system. You can login in the system via any of the server	alison-sys 192.168.69.19
addresses.	Surveillance System 192.168.69.22
	Surveillance System 192.168.69.24
System	Surveillance System 192.168.69.21
	Surveillance System 192.168.69.20
2 User 2 ··· 2 User 3	Specify Address Manually
	New System
There is only one 'Owner' user in the system, and other users can be created by 'Owner' or 'Administrator'. Set an owner user if you are going	Auto Login
to create the undefined server as a new system, or enter the Owner's	Connect After Save
authentication credentials of the existing system.	Save
	Cancel
23/26 X (MARCA) - NICO 7 - 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	

3. Manually connecting other systems which have been created in other network.

Step1: Click and a window page show as below:

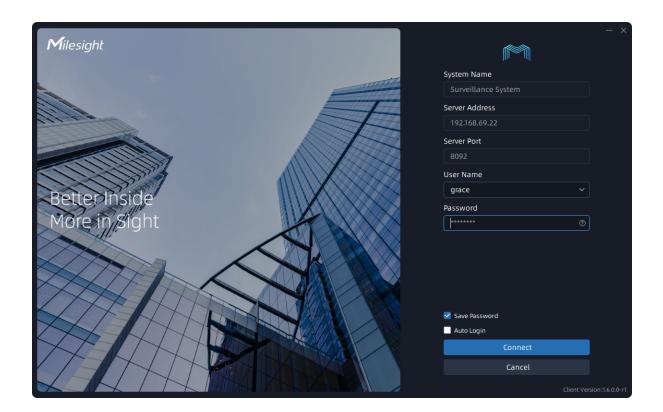


**Step2:** Enter server address, user name and password, and click the "Connect" button, then system which the server is added to will show in the list of login window.

#### Note:

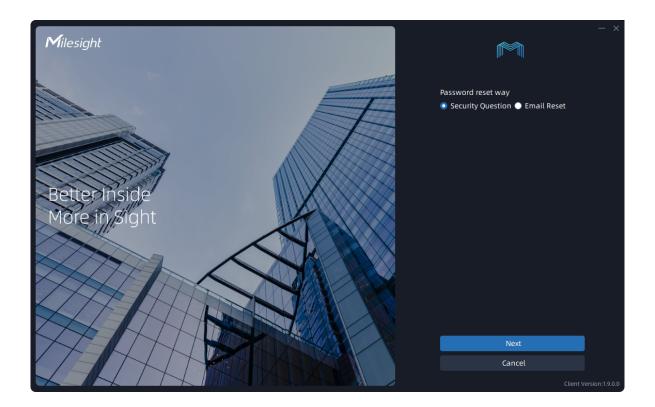
- 1. A VMS system can add multiple servers, but there is only a master server.
- The created systems and undefined servers in the current local network can be automatically searched and show in the list as above. User can scroll down to choose other systems or servers in the list.

Step3: Select a system, then enter the user name and password to connect;

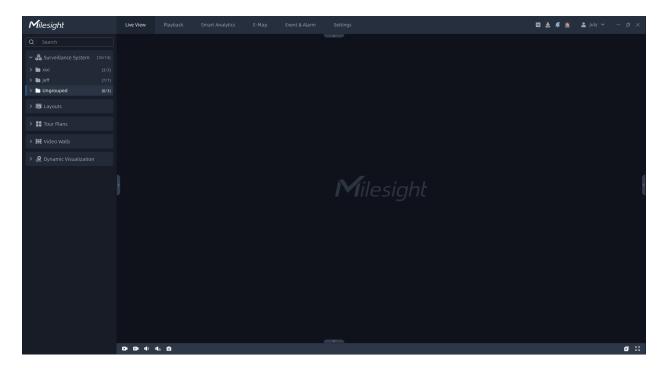


#### Note:

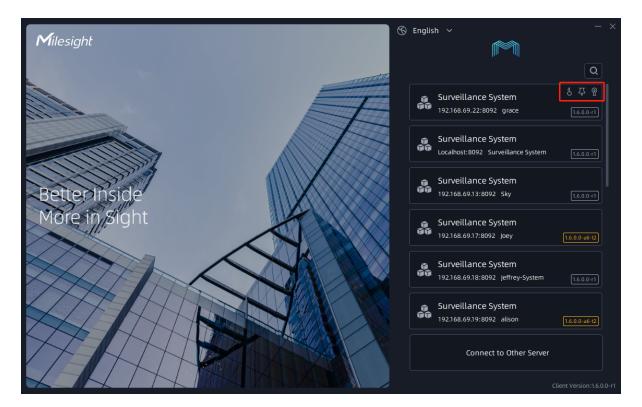
- If the Save Password optionis checked, "Milesight VMS Enterprise Client" will log in without keying in the user name and password next time. As it supports remembering multiple accounts and passwords, you can choose one of them in the user name.
- If you forget the password, you can click to reset it through Security Question or Email Reset. To implement Email Reset, you need to complete the Email Service settings first.



**Step4:** After login the system, the VMS system client interface will show as below. If you create Owner user and first login the VMS system, there is a wizard window displayed in the client interface. More wizard details can refer to Login Wizard (page 22).



**Note:** The**Top** status icon, the **Saved Password** status icon and the **Manual Connection** status icon in the login interface, bringing users a more visual experience. The page is as below:

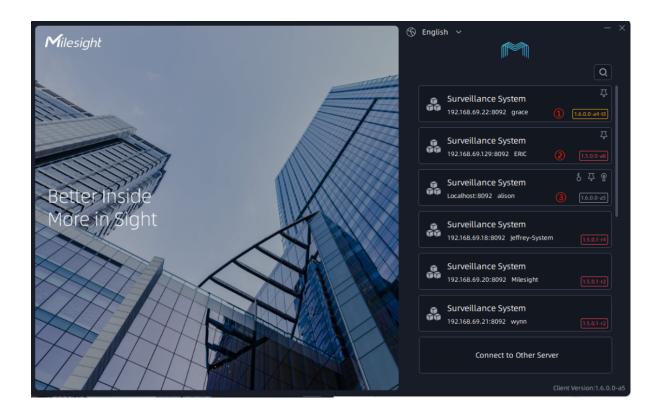


The three icons on the login page indicate the corresponding actions that have been set up by the user. For example:

means that you have chosen to remember this system's password so that you don't have to enter it on the next login.

means that you have place this system on top, and the later you top the system, the closer it gets to the top of the list.

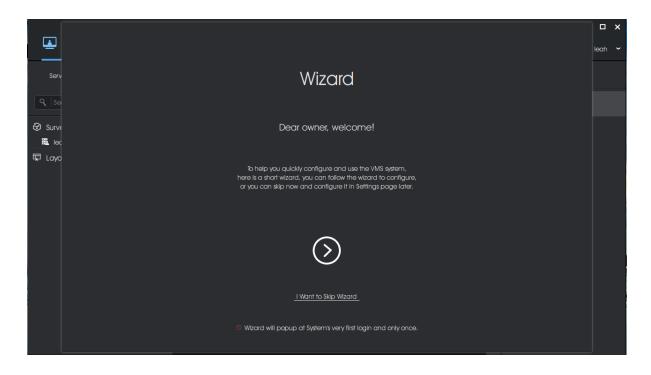
means that you have connected to this system manually.



- When the client version is different from the system version but belongs to the same major version, it will display a yellow version number and remind the user to upgrade the version for a better user experience.
- When the major version of the client version and the system version are different, the red version number will be displayed, and it is required to upgrade the version to login into the program.
- When the client version is the same as the system version, it will display the white version number without any prompt.

### 2.4.2 Login Wizard

The wizard will help you to quickly configure and use the VMS system, including some basic configuration page: Security, License, Devices and Storage. If you create a new system, then there is a pop-up wizard as shown below at system's very first login and once only.



Here you can choose directly skipping wizard or click 🖸 button to start wizard.

#### Security

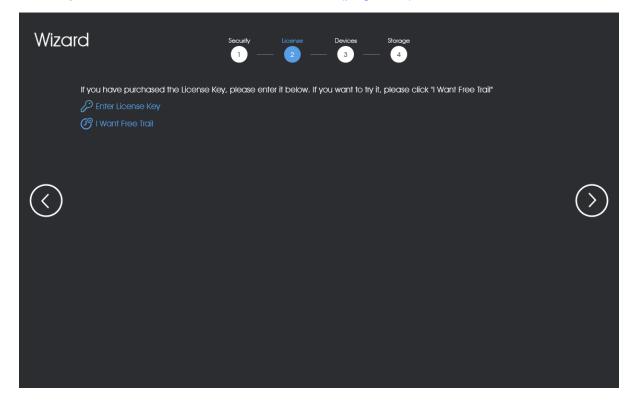
Security configuration page is to set some security questions for account safety. This will make it easier for Owner to reset password if forget it.

٤ ر	Wizard						□ × ×ah ×
Server		Security	License	Devices	Storage — 4		
Q Sear							
🕄 Surveil 📰 leah		For your account safet This will make it easier If you don't need it, you	for you to reset (	Owner's password if			
🖵 Layou							
	$\langle \rangle$	Security Question 1		Answer 1		$\bigcirc$	
	$\odot$	What's your father's name?				$\bigcirc$	
		Security Question 2		Answer 2			
		What's your mobile number?					
		Security Question 3		Answer 3			
		What's your favorite color?					

Here you can choose three questions from predefined questions or customize some of them, and fill in answers completely. After setting, click O to save the Security setting and enter next wizard interface. Also, If you don't need it, you can click O to directly enter next wizard. Also, you can make configuration in the Security Questions of <u>User Settings (page 173)</u>.

#### License

The License wizard will guide user how to activate license, which will facilitate user to add devices next. There are two options, including Enter License Key and I Want Free Trail. In addition, you can also refer to <u>License Activation (page 154)</u> to set license activation.



**Note:** Now Mliesight VMS supports three types of licenses, they are Camera License, Video Wall License and Smart Analytics License.

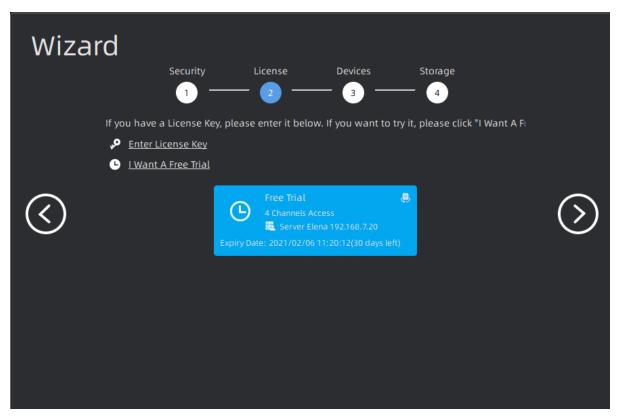
#### (1) Free Trial Activation

**Step1:** Click Of I want Free Trail button. If this is the first time you use the VMS software, then a window will pop up as shown below:

after activati And bind the	ense is a time-limited exper	where the Server is I	
Do you want	to activate it now?		
Activate Lice	ense to		
ServerXXX	192.168.10.50	~	
		Activate	Cancel

**Step2:** Select server which a license is registered to and click Free Trail information card will show in the License wizard interface.

button, then a



**Note:** The Free Trial with 4 camera access is a time-limited experience license that expires in 1 month after activation. You can purchase our license to access more channels.

#### (2) Online Activation

**Step1:** Click <sup>P Enter License Key</sup> button and wait for several seconds, a window will pop up as shown below:

License Key Activation		
Activate License to		
ServerXXX 192.168.10.50	~	
License Key		
XX-XXX-XXXX-XXXX		
	Activate	Cancel

**Step2:** Select server and Input Activation Code, then click the Activate button;

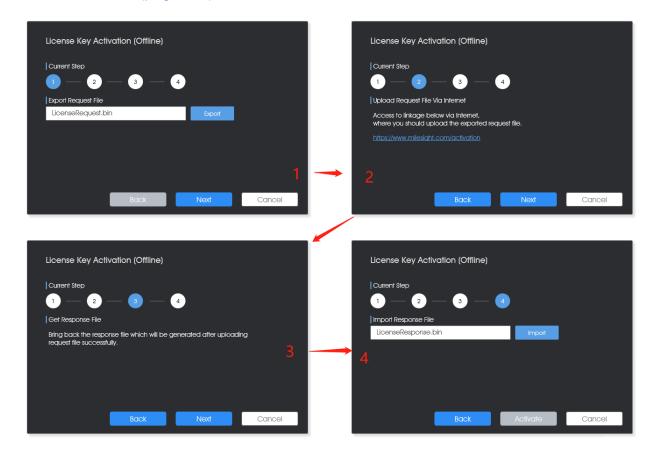
**Step3:** After verifying your activation code successfully, the license information card will will show in the License wizard interface.

#### (3) Offline Activation

**Step1:** Click Cherry button. If the server is not connected to the Internet, then licenses can be activated offline as shown below:

License Key Activation (Off-lin	e)	
Activate License to		
ServerXXX 192.168.10.50	~	
License Key		
XX-X00X-X00X		
	Next	Cancel

**Step2:** Select server and Input Activation Code, then click button. Here you can operate according to current step tips. More operation information can refer to the <u>Manual Activation (page 154)</u> of License Activation.



**Step3:** After activating the license successfully, the license information card will show in the License wizard interface.

#### Devices

After activating license, the Devices wizard is used for users to quickly add devices which can be searched in the same network automatically.

Wiza	ard			
	Security	License Devices	Storage	
	1		4	
	Selected Devices:0/512	Hide Added Devices	R Search 🕄	
	Device Name IP Addres. ארי-כסבט-כא וואנאסי.וואנא אייי		MAC Address Manufacturer	
	Network Camera 192.168.7.1	88 80 MSSP MS-C2961-REOP	PB 1C:C3:16:70:81:97 Milesight Technol	
$\bigcirc$	Network Camera 192.168.7.1	89 80 MSSP MS-C5362-HEPI	B 1C:C3:16:25:B2:22 Milesight Technol	
(<)	Network Camera 192.168.7.2	02 4200 MSSP MS-C9674-PB	1C:C3:16:22:01:0B Milesight Technol.	>)
	Network Camera 192.168.7.2	05 5004 MSSP MS-C8176-PB	1C:C3:16:29:BC:FA Milesight Technol.	$\sim$
	Network Camera 192.168.7.2	07 80 MSSP MS-C2862-TFIP	A 1C:C3:16:11:2A:49 Milesight Technol	
	Network Camera 192.168.7.2	08 80 MSSP MS-C2966-X12RL	1C:C3:16:29:6D:42 Milesight Technol	
	Network Camera 192.168.7.2	10 80 MSSP MS-C5361-HEP	B 1C:C3:16:29:B6:51 Milesight Technol	
	Network Camera 192.168.7.2	25 240 MSSP MS-C2964-FPB	1C:C3:16:25:0C:C3 Milesight Technol	
	Network Camera 192.168.7.2	30 80 MSSP MS-C4461-EB	1C:C3:16:21:C5:84 Milesight Technol	
	Network Camera 192.168.7.2	33 80 MSSP MS-C8165-PB	1C:C3:16:28:B6:C0 Milesight Technol	
	Network Camera 10216972			
	Connect Type Auto 🗸	Luser Name	Password Add	

Steps of adding devices can be referred to as below:

**Step1:** Input device information in the Search box to search out the device which will be added;

Step2: Check the device box;

Step3: Enter Connect Type, User Name and Password of the selected device;

**Step4:** Click Add button, a window will pop up to show Add Result as below:

Wizard			
VIZAIU	Security	License Devices	Storage
Adding Results			
			Hide successful items Total: 3, Failed:2
Camera Name	Address	Results	Reason
Network Camera	192.168.69.60		Incorrect user name or password
Network Camera	192.168.69.66		Incorrect user name or password
Network Camera	192.168.69.107	Camera added successfully.	
			ОК

Step5: Click OK button.

If you need to add device later on, then you can refer to <u>3.2.1 Camera Management (page 45)</u> to add devices.

#### Storage

The Storage wizard is to enable which disk to store recordings and images of VMS system. More storage disk configuration can refer to <u>Storage Management (page 167)</u>.

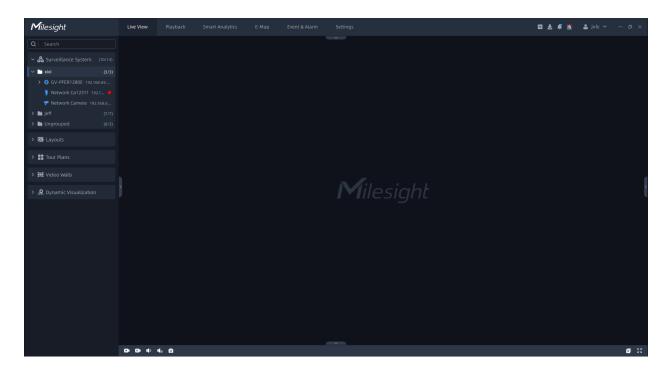
Wiza	rd				
	Security	License	Devices	Storage	
	Please specify the disk/volum System disks are not recomme				
	VMS Others Free				
$\bigotimes$	Server 1 192.168.7.26			Enabled Disks: 1/2 🐱	$\odot$
	(D:) 31 GB free of 310 GB		(E:) 117 GB free o	f 311 GB	
	Start Continuous Recording f	or all added camera	ıs. (i)		

**Note:** If there are multiple servers in the system before entering the wizard, the disk information of multiple servers will be displayed here.

After setting the four wizard configurations, click the O button to finish wizard configurations.

### 2.4.3 User Interface Introduction

After you login the VMS system, you can see the Live View interface as shown below. The left part is device list panel, the top part is main menu panel, the right part is small function panel and the center part is Viewing panel.



The meanings of the icons on the interface are as below:

ltem	Function Introduction					
< > ~	Hide/Show button					
CPU: 7%	To check the real-time CPU status on PC					
, <b>Gev</b> 17%	To check the real-time GPU status on PC					
[888] 47%	To check the real-time RAM memory on PC					

ltem	Function Introduction									
	Click the button, then the Client Files Management window will pop up as shown below to check the exporting file progress, including downloading and completed status.									
	Client Files Management     - ×       Operation     Q Search       Downloading (0)     File     Device     Export Time     Operation									
	Completed (1)         * Export at 20220510_105951         Image: Completed (1)         Image: Completed (1)         Image: Co									
	<ul><li>Downloading: The downloading files will be viewed here.</li><li>Completed: The downloaded files will be viewed here.</li></ul>									
	Minimize the interface									
ъ	Restore the interface									
	Maximize the interface									
×	Close the software									

ltem	Function Introduction					
	Display current login user name. Click grace to pop up a user menu as below: grace ~					
	Disconnect(Q)Alt+QSwitch User(W)Alt+WAbout(A)Alt+A					
🐣 grace	<ul> <li>User Modify: Click the User Modify to jump to <u>User Management (page 173)</u></li> <li>Disconnect: Click the button to logout the VMS client.</li> <li>About: Click the button to check Milesight VMS information about logo, version and copyright, etc., as below:</li> </ul>					
	About × Milesight VMS Enterprise 1.6.0.0-r1 Build 20220726_180318					
	Copyright © 2022 Milesight. All Rights Reserved. Contact Us: support@milesight.com					
	www.milesight.com					

# Chapter 3. Settings

This part mainly includes Dashboard, Devices, System & Servers and Client Settings. Basic operations for the VMS can be performed here.

## 3.1 Dashboard

Here you can view the status and resource usage of the system and its servers. When you click "Settings->Dashboard", the window will show as below.

<b>M</b> ilesight	Live View	Playback !	Smart Analytics E-Map	Event & Alarm Settings			0 ± 4 ž	<b>≗</b> july ∽ — □ ×
ど Dashboard	System	Surveilla ===						
🗄 Devices	Client Information		Client Information					
			Total: 1 User Name	Client IP	Client Type	Client Version	Role	Search Online Time
	Recording Status 6 Recording		july	192.168.69.23	Windows64-bit	1.9.0.0-a4-15	Owner	2023-05-11 20:20:49
💑 System & Servers		ecycling : 0 Day 0 Hour						
	VMS 101GB / Others 504 Camera Connection 18 Total	68 / Free 43768 6 Disconnected						
	Event Information							
🖫 Client Settings	Today Analytics Server Ever	This week It Status						
	Al Box Event Status O Analyzing							
LÎ.								

### 3.1.1 System

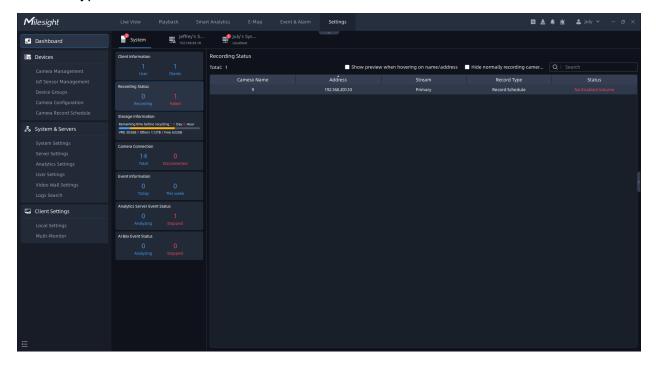
#### Client Information

You can view current online client information in the system. In the left panel, you can see the total number of currently logged-in users and the total number of connected clients in the system. And you can view the details including the login User Name, Client IP, Client Type, Client Type, Role and Online Time as below.

Milesight	Live View	Playback Sm	art Analytics E-Map	Event & Alarm Settings			⊠ ≵ ≜ <u>è</u>	🛓 july 🖌 🚽 🖉 🗙
Dashboard	System	Jeffrey's S 192.168.69.18	. July's Sys Localhost					
Camera Management	Client Information 1 User		Client Information Total: 1					Search
IoT Sensor Management Device Groups Camera Configuration Camera Record Schedule	Recording Status O Recording Storage Information		User Name july	Client IP Locathost	Client Type Windows64-bit	Client Version 1.10.0.0-a5	Role	Online Time 2023-08-28 11:09:46
🛃 System & Servers	Remaining time before I VMS 303GB / Others 1.1.	recycling : 0 Day 0 Hour 2TB / Free 634GB						
System Settings Server Settings Analytics Settings	Camera Connection 5 Total							
User Settings Video Wall Settings Logs Search	Event Information O Today							
Client Settings	Analytics Server Even O Analyzing	nt Status ] Stopped						
Multi-Monitor	Al Box Event Status O Analyzing							
Ē								

#### Recording Status

You can check the recording status of each channel in the system. In the left panel, you can see the total number of current recordings and the total number of failed recordings in the system. And you can view the details including the Camera Name, IP Address, Stream, Record Type and Status as below.



When there are too many cameras in the system, you can check "Hide Normally Recording Cameras" to focus only on the failed recordings.

#### Storage Information

You can view the current storage information of the system. In the left panel, you can see the total storage capacity occupied by VMS, the total storage capacity occupied by others, the total remaining storage capacity in the system, and estimated remaining time before recycling. And you can view the detailed disk information of each server including the Disk, Volume, Total Storage, VMS Storage Usage and Volume Status as below.

<b>M</b> ilesight	Live View	Playback Sm	art Analytics E-Map		tings		⊡ ≵	🌲 🚊 🚨 july 👻 — 🗗 🗙
Dashboard	System	Jeffrey's S	Localhost					
📅 Devices	Client Information		Storage Information					
			Server Name: July's System					
					Total Storage	VMS Storage Usage	Volume Status	Remaining time before recycling
	Recording Status		disk 0		111.40GB	08	Read-only	
			disk 1		200.00GB		Read-only	0Day0Hour
	Storage Information		disk 2		366.00GB	201.00GB	Read-only	
	Storage Information Remaining time before r	ecycling : 0 Day 0 Hour	disk 2		365.51GB		Read-only	
System & Servers	VMS 303GB / Others 1.12							
	Camera Connection							Storage Manag Storage Inform
			Server Name: Jeffrey's System					
				Volume	Total Storage	VMS Storage Usage	Volume Status	Remaining time before recycling
	Event Information		disk 0		111.57GB	08	Read-only	
			disk 1		200.00GB		Read-only	0Day0Hour
			disk 2		366.00GB	08	Read-only	
Client Settings	Analytics Server Even	nt Status	disk 2		365.51GB	102.00GB	Read-only	
								Storage Manag Storage Inform
	Al Box Event Status							

You can click Storage Management button to quickly jump to the Storage Management page in

Server Settings. And you can click button to jump to the Storage Information button to jump to the Storage Information page of the corresponding Server's Dashboard.

#### Camera Connection

You can view the connection status of all cameras currently in the system. In the left panel, you can see how many cameras are connected and how many cameras that have failed to connect in the system. And you can view the details including the Camera Name, IP Address, Stream, Last Online Time and Status as below.

<b>M</b> ilesight	Live View	Playback Sma	rt Analytics E-Map Event & Alarm	Settings		🖾 🛓 🌲 🛓 🔳 july	- @ ×
Dashboard	System	Jeffrey's S	July's Sys ቛ Localhost				
🖶 Devices	Client Information		Camera Connection				
Camera Management			Total: 14	Show preview when how	vering on name/address 🛛 🔲 Hide normally conne	cted camer Q   Search	
IoT Sensor Management				Address			
Device Groups	Recording Status		Network Camera	192.168.69.115	2023-08-28 11:34:08	Normal	
Camera Configuration			Network Camera	192.168.69.153	2023-08-28 11:34:08	Normal	
Camera Record Schedule			Network Camera	192.168.69.156	2023-08-28 11:34:08	Normal	
camela Record Schedule	Storage Information		Network Camera	192.168.69.222	2023-08-28 11:34:08	Normal	
🛃 System & Servers	VMS 303GB / Others 1.1	recycling : 0 Day 0 Hour	Network Camera	192.168.69.247	2023-08-28 11:34:08	Normal	
Custom Cattle of				192.168.201.10	2023-08-28 11:34:08	Normal	
System Settings	Camera Connection			192.168.201.10	2023-08-28 11:34:08	Normal	
Server Settings				192.168.201.10	2023-08-28 11:34:08	Normal	
Analytics Settings				192.168.201.10	2023-08-28 11:34:08	Normal	
User Settings	Event Information			192.168.201.10	2023-08-28 11:34:08	Normal	
Video Wall Settings				192.168.201.10	2023-08-28 11:34:08	Normal	
Logs Search				192.168.201.10	2023-08-28 11:34:08	Normal	
	Analytics Server Eve	nt Status		192.168.201.10	2023-08-28 11:34:08	Normal	
Client Settings				192.168.201.10	2023-08-28 11:34:08	Normal	
Local Settings							
Multi-Monitor	AI Box Event Status						
Ē							
<b>—</b>							

If the connection fails, the reason for the failure will be displayed in red in the "Status" column. When there are too many cameras in the system, you can check "Hide Normally Connected Cameras" to focus only on the camera that failed to connect.

And it supports displaying the preview thumbnail when you hover the mouse over the device name or address.

<b>M</b> ilesight	Live View Playback Sr	nart Analytics E-Map Event & Alarm	Settings		🖸 📩 🌲 🖄 🚨 july	• - @ ×
Dashboard	<b>System J</b> effrey's S. 192.168.69.18	🥩 July's Sys Localhost				
Devices	Client Information	Camera Connection				
		Total: 14		ering on name/address 📃 Hide normally conne	cted camer Q   Search	
	Recording Status	Camera Name	Address	Last Online Time	Status	Operation
	0 1	Network Camera	192.168.69.115	2023-08-28 11:34:29	Normal	
		Network Camera	192.168.69.153	2023-08-28 11:34:29	Normal	
	Storage Information	Network Camera	192.168.69.156	2023-08-28 11:34:29	Normal	
	Remaining time before recycling : 0 Day 0 Hour	Network Camera	192.168.69.222	2023-08-28 11:34:29	Normal	
🎝 System & Servers	VMS 303GB / Others 1.12TB / Free 631GB	Network Camera	192.168.69.247	2023-08-28 11:34:29	Normal	
	Camera Connection		192.168.201.10	2023-08-28 11:34:29	Normal	
			192.168.201.10	2023-08-28 11:34:29	Normal	
			192.168.201.10	2023-08-28 11:34:29 2023-08-28 11:34:29	Normal	
	Event Information		192.168.201.10	2023-08-28 11:34:29	Normal	
			192.168.201.10		Normal	
			192.168.201.10		Normal	
	Analytics Server Event Status		192.168.201.10		Normal	
Client Settings			192.168.201.10		Normal	
	Al Box Event Status				l .	

#### Event Information

Users can check the event information in this module to better analyze the event information. In the left panel, you can see how many events were triggered today and this week. And on the right side of the screen, it will list the number of times each event is triggered based on your settings.

<b>M</b> ilesight	Live View Playback Sm	art Analytics E-Map Event & Alarm	Settings 🛛 🕹 🚖 🚊 july 🗸 — の >
Dashboard	System Jeffrey's 5	July's Sys Localhost	
Devices	Client Information	Event Information	
Camera Management IoT Sensor Management		Event Type Report Type           All         Daily	Start Time           v         2023/08/28 00:00:00         Search         View Details
Device Groups Camera Configuration	Recording Status 0 1 Recording Failed		2023/08/28 00:00:00 - 2023/08/28 23:59:59
Camera Record Schedule	Storage Information Remaining time before recycling : 0 Day 0 Hour VHS 30308 / Others 1.1278 / Free 631G8	Motion Detection Audio Alarm External input Alarm	
System Settings Server Settings Analytics Settings	Camera Connection 14 0 Total Disconnected	VCA - Region Exiting VCA - Region Exiting VCA - Advanced Motion Detection	
User Settings Video Wall Settings Logs Search	Event Information 0 0 Today This week	VCA - Tamper Detection VCA - Line Crossing VCA - Loitering	
Client Settings	Analytics Server Event Status 0 1 Analyzing Stopped	VCA - Human Detection VCA - Object Left VCA - Object Removed	
Multi-Monitor	Al Box Event Status 0 0 Analyzing Stopped	People Counting People Counting - Regional Analytics - Motion Detection	
		Analytics - Region Entrance Analytics - Region Exiting Analytics - Line Crossing	
		Analytics - Loitering Analytics - Group People Counting Analytics - Cross Line People Counting	
		Analytics - Regional People Counting Analytics - Regional People Counting ANPR - Vehicle Detection ANPR - Visitor Detection	
I <del>I</del> I		ANPR * VISIOF Detection	

Click the "View detailed log" button and it will jump to the Log interface to view the log in more detail.

Milesight	Live View Playback		iettings		🖾 🛓 📫 🎽 💄 july 🗸 — 🗇
🖉 Dashboard	System Logs Session Logs				
Bro Devices	Start Time	System Logs			
	2023/08/25 00:00:00	Date/Time	Туре	Target	Details
- IoT Sensor Management	End Time	2023/08/31 13:58:12	Picture Recycle	System	Storage space of 368 vehicle pictures has 🔄
Device Groups	2023/08/31 23:59:59	2023/08/31 13:58:12	Picture Recycle	System	Storage space of 1 person pictures has be 🗄
Camera Configuration	M All	2023/08/31 13:58:12	Picture Recycle	System	Storage space of 1 person pictures has be 🗄
Camera Record Schedule	MAR ANR	2023/08/31 13:58:12	Picture Recycle	System	
	Time Sync.	2023/08/31 13:47:34	Recording Recycle	Network Camera(192.168.69.247)	Some storage space of primary stream rec 🗄
System & Servers	<ul> <li>Configuration Backup</li> <li>Recording Recycle</li> </ul>	2023/08/31 13:32:05	Recording Recycle	Network Camera(192.168.69.247)	Some storage space of primary stream rec 🗄
	Picture Recycle	2023/08/31 13:26:14	Recording Recycle	4(192.168.201.10)	Some storage space of primary stream rec 🗄
	Logs Recycle	2023/08/31 13:24:18	Picture Recycle	System	Storage space of 1172 vehicle pictures has 🗄
	Server Changes Camera Changes	2023/08/31 13:24:18	Picture Recycle	System	Storage space of 6 person pictures has be
		2023/08/31 13:24:18	Picture Recycle	System	Storage space of 16 person pictures has b
		2023/08/31 13:24:18	Picture Recycle	System	
		2023/08/31 13:04:53	Recording Recycle	9(192.168.201.10)	Some storage space of primary stream rec [
Logs Search		2023/08/31 12:58:11	Recording Recycle	Network Camera(192.168.69.247)	Some storage space of primary stream rec [
		2023/08/31 12:50:24	Picture Recycle	System	Storage space of 4 vehicle pictures has be
Client Settings		2023/08/31 12:50:24	Picture Recycle	System	Storage space of 1504 vehicle pictures has
		2023/08/31 12:50:24	Picture Recycle	System	Storage space of 4 person pictures has be
		2023/08/31 12:50:24	Picture Recycle	System	Storage space of 2 person pictures has be
		2023/08/31 12:50:24	Picture Recycle	System	
		2023/08/31 12:43:31	Recording Recycle	4(192.168.201.10)	Some storage space of primary stream rec[
		2023/08/31 12:24:17	Recording Recycle	9(192.168.201.10)	Some storage space of primary stream rec
		2023/08/31 12:22:09	Recording Recycle	Network Camera(192.168.69.247)	Some storage space of primary stream rec[
		2023/06/31 12:18:10	Picture Recycle	System	Storage space of 1012 vehicle pictures has [
		2023/08/31 12:18:10	Picture Recycle	System	Storage space of 23 person pictures has b
		2023/08/31 12:18:10	Picture Recycle	System	Storage space of 32 person pictures has b
		2023/06/31 12:18:10	Picture Recycle	System	
		2023/08/31 12:15:09	Picture Recycle	System	Storage space of 656 vehicle pictures has [
		2002/08/21 12:15:00	Dicture Depreia	Sustem	Storane share of 2 nerson nirtures has he
	Reset Search	Selected: 0/308			

### Analytics Server Event Status

Users can check VMS-end Video Analytics status of All cameras in this module. In the left panel, you can see how many channels are analyzing and how many channels are stopped. And on the right side of the screen, it will list the status of each event for all channels.

<b>M</b> ilesight	Live View	Playback Sm	art Analytics E-Map	Event & Alarr						0 ± #	🕍 💄 july 🥆	- @ ×
Dashboard	System	Jeffrey's S 192.168.69.18	. July's Sys Localhost									
🖶 Devices	Client Information		Analytics Server Event	Status								
			Total: 14		Show pre	view when hove	ering on name/addi	ress Show All C	lameras			
			Camera Name	Address	Cross Line Peopl Reg	gional People	Motion Detection	Region Entrance	Region Exiting			ANPR
	Recording Status		Network Camera	192.168.69.222								
Camera Configuration			Network Camera	192.168.69.115								
Camera Record Schedule			Network Camera	192.168.69.153	Off	Off	Off	Off	Off	Off	Off	Off
	Storage Information	recycling : 0 Day 0 Hour	Network Camera	192.168.69.156								
🛃 System & Servers	VMS 303G8 / Others 1.1		Network Camera	192.168.69.247	Off	Off	Off	Off	Off	Off	Off	Off
				192.168.201.10								
Server Settings	Camera Connection			192.168.201.10	Off	Off	Off	Off	Off	Off	Off	Off
				192.168.201.10								
User Settings				192.168.201.10	Off	Off	Off	Off	Off	Off	Off	Off
	Event Information			192.168.201.10								
				192.168.201.10		Off	Off					Off
				192.168.201.10								
🗔 Client Settings	Analytics Server Eve	nt Status		192.168.201.10	Off	Off	Off	Off	Off	Off	Off	Off
				192.168.201.10								
	Al Box Event Status											

• Al Box Event Status

Users can check AI Box Event Analytics status of All cameras in this module. In the left panel, you can see how many channels are analyzing and how many channels are stopped. And on the right side of the screen, it will list the status of each event for all channels.

<b>M</b> ilesight	Live View	Playback Sma	art Analytics E-Map	Event & Alarm	Settings	0 ž 4 🖄 J	ijuly ∽ – ⊡ ×
🦉 Dashboard	System	Jeffrey's S	July's Sys Localhost				
🖶 Devices	Client Information		Analytics Status				
			Total: 14		Show preview when hovering on name/address	Show All Cameras V Q   Search	0
	Recording Status		Network Camera	192.168.69.115			
			Network Camera	192.168.69.153			
			Network Camera	192.168.69.156			
	Storage Information Remaining time before		Network Camera	192.168.69.222			
System & Servers	VHS 303GB / Others 1.1		Network Camera	192.168.69.247	Off		
	Camera Connection			192.168.201.10			
	Camera Connection			192.168.201.10	Off	Off	
			192.168.201.10				
	Event Information			192.168.201.10	Off	Off	
	3		9	192.168.201.10 192.168.201.10	Off Off	Off Off	
				192.168.201.10	Off	Off	
	Analytics Server Eve	ont Status		192.168.201.10	Off	Off	
🗔 Client Settings				192.168.201.10	off	off	
	Al Box Event Status						

The meaning of the status with different colors can be referred in the table below:

#### Table 1.

Color	Description
Black	It means Analytics Event is enabled, and you can refer to the following different working states. On: Analytics Event is enabled but the detected object is not checked. Human: Analytics Event is enabled and the detected object is selected as Human. Vehicle: Analytics Event is enabled and the detected object is selected as Vehicle. Human&Vehicle: Analytics Event is enabled and the detected object is selected as Human and Vehicle.
Red	It means Analytics Event is enabled but stops working.
Gray	It means Analytics Event is disabled.

## 3.1.2 Server

#### Server Health

You can view the usage of the device where the server is located in real time, including CPU, Memory, Ethernet, Disk. And you can see the information including the CPU Info, Memory Info, Ethernet, OS Info, VMS Version, Up Time and Licenses Usage Overview.

<b>M</b> ilesight	Live View Playback Smart Analytics E-Map Event & Alarm Settings 🖬 🛓 🏚 🎍 july	- @ ×
Dashboard	System July's Sys	
E Devices	Server Health	
Camera Management IoT Sensor Management	Server Health	
Device Groups	Recording Status 2 1	
Camera Configuration Camera Record Schedule	Recording Failed	
🛃 System & Servers		
System Settings		
Server Settings Analytics Settings	11 1 propagation with the formal from the	
User Settings	Total Disconnectual	
Video Wall Settings		(
Logs Search	CPU Info: Intel(R) Core(TM) 17-9700 CPU @ 3.00GHz	
🗔 Client Settings	Memory Info: 16.00GB(15.87GB Availed) Ethernet0: 1.0 Gbps	
Local Settings	Cosinfo: Windows 10 ∉±ڜ 64-bit	
Multi-Monitor	VMS Version: 1.10.0.0	
	Up Time: 17 hours 33 minutes	
Ē		

**Note:** If there are multiple network cards, there will be multiple network card records like Disk in the figure.

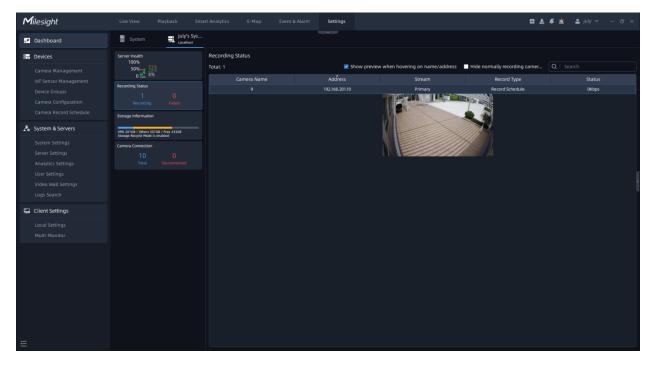
#### Recording Status

You can check the recording status of each channel in the server. In the left panel, you can see the total number of current recordings and the total number of failed recordings in the server. And you can view the details including the Camera Name, IP Address, Stream, Record Type and Status as below.

Milesight	Live View Playback Sm	art Analytics E-Map Event a			2 ±	🦧 🚵 🚨 july 🛩 — 🗗 🗙
Dashboard	System July's Sys					
B Devices	Server Health 100% 50%51%	Recording Status	Show preview	w when hovering on name/address	Hide normally recording camer	Q   Search
	0 4 8%	Camera Name	Address		Record Type	Status
	Recording Status	9	192.168.201.10	Primary	Record Schedule	OKbps
	Storage Information					
System & Servers	VMS 201GB / Others 507GB / Free 333GB Storage Recycle Mode is enabled					
	Camera Connection					
🗔 Client Settings						

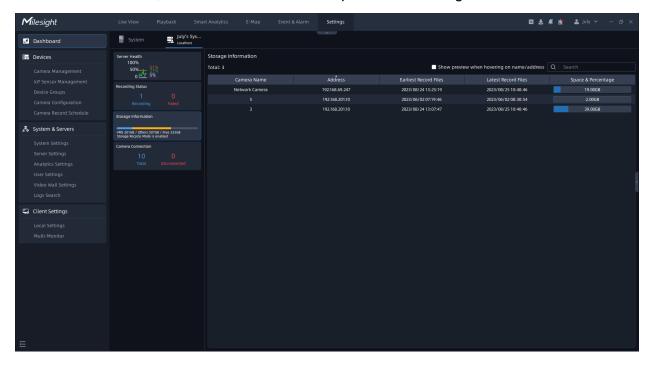
When there are too many cameras in the system, you can check "Hide Normally Recording Cameras" to focus only on the failed recordings.

And it supports displaying the preview thumbnail when you hover the mouse over the device name or address.



#### Storage Information

You can view the current storage information of the server. In the left panel, you can see the total storage capacity occupied by VMS, the total storage capacity occupied by others, and the total remaining storage capacity in the server. And you can view the detailed storage information used by each camera of the server including the Camera Name, IP Address, Earliest Record Files, Latest Record Files and Space & Percentage as below.



And it supports displaying the preview thumbnail when you hover the mouse over the device name or address.

<b>M</b> ilesight	Live View Playbaci	k Smart Analy	rtics E-Map	Event & Alarm	Settings		C ± .	📫 📩 💄 july 👻 — 69 🗙
Dashboard	System 📑	July's Sys Localhost						
Camera Management	Server Health 100% 50% 51%	Stora Total:	ge Information : 3			🖌 🗹 Sho	w preview when hovering on name/address	
	0 2022 65				Address	Earliest Record Files	Latest Record Files	Space & Percentage
	Recording Status		Network Camera		192.168.69.247	2023/08/24 13:25:15	2023/08/25 10:40:46	19.00GB
						2023/06/02 07:19:46	2023/06/02 08:30:54	2.00GB
	Storage Information				192.168.201.10	2023/08/2413:07:47		39.00GB
🔏 System & Servers	VMS 201GB / Others 507GB / Free 33: Storage Recycle Mode is enabled	368					Sallen Str	
	Camera Connection							
Client Settings								

#### Camera Connection

You can view the connection status of all cameras currently in the server. In the left panel, you can see how many cameras are connected and how many cameras that have failed to connect in the server. And you can view the details including the Camera Name, IP Address, Stream, Last Online Time and Status as below.

<b>M</b> ilesight	Live View Playback Sm	art Analytics E-Map Event & Alarm	Settings		🖾 差 🗯 🏦 🚨 july 🗸	– ø ×
Dashboard	System July's Sys					
🔐 Devices	Server Health 100%	Camera Connection Total: 10	Chow provident when here	vering on name/address 🛛 Hide normally conn	ostad camer	
	50%		Address			-
	Recording Status	Camera Name Network Camera	Address 192.168.69.247	Last Online Time 2023-08-28 11:53:28	Status Normal	Operation
		8	192.168.201.10	2023-08-28 11:53:28	Normal	
			192.168.201.10	2023-08-28 11:53:28	Normal	
	Storage Information		192.168.201.10	2023-08-28 11:53:28	Normal	
🛃 System & Servers			192.168.201.10	2023-08-28 11:53:28	Normal	
	VMS 201GB / Others 507GB / Free 333GB Storage Recycle Mode is enabled		192.168.201.10	2023-08-28 11:53:28	Normal	
	Camera Connection		192.168.201.10	2023-08-28 11:53:28	Normal	
			192.168.201.10	2023-08-28 11:53:28	Normal	
			192.168.201.10	2023-08-28 11:53:28	Normal	
			192.168.201.10	2023-08-28 11:53:28	Normal	
🗔 Client Settings						
- cuent settings						

If the connection fails, the reason for the failure will be displayed in red in the "Status" column. When there are too many cameras in the system, you can check "Hide Normally Connected Cameras" to focus only on the camera that failed to connect.

And it supports displaying the preview thumbnail when you hover the mouse over the device name or address.

Milesight	Live View Playback Sma	art Analytics E-Map Event & Alarm	Settings		🖾 🛃 🗳 🖄 🕹 ju	ly 🗸 — 🗗 🗙
Dashboard	System July's Sys					
Camera Management	Server Health 100% 50% 51% 0 400 51%	Camera Connection Total: 10		overing on name/address 🔲 Hide normally connec	ted camer Q   Search	
IoT Sensor Management Device Groups Camera Configuration Camera Record Schedule System & Servers System Settings Server Settings Analytics Settings	Control of the state of th	Camera Name Network Camera 8 6 9 4 5 1 1 3 2	Address 1192;168:69:247 192;168:20110 192;162:20110 192:162:20110 192:162:20110 192:162:20110 192:162:20110 192:162:20110	Last Online Time 2022-09-28 11:53:38 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:53:28 2022-09-28 11:52 2022-09-28 11:52 2022-09-28 11:52 2022-09-28 11:52 2022-09-28 11:52 2022-09-28 110 2022-09-28 110 2022-09-28 110 2022-09-28 110 2022-09-28 110 2022-09-28 110 2022-09-28 110 2022-09-28 110 2022-09 2022-09-28 110 2022-09 2022-09-28 110 2022-09-28 110 202	Status Normal Normal Normal Normal Normal Normal Normal Normal	Operation
User Settings Video Wall Settings Logs Search Client Settings Local Settings Multi-Monitor			192166.20110		Normal	
Ŧ						

#### Note:

- The number on the label indicates the number of abnormal cards on this page.
- <sup>100</sup> indicates that the server is offline.

# 3.2 Devices

## 3.2.1 Camera Management

This VMS supports to add cameras to get an efficient and convenient management. The devices also can be edited or deleted from the VMS Enterprise at any time.

When you click the "Settings->Devices-> Camera Management" button, the window will show as below:

Milesight					Settings			🖾 🕹 🧳 🖄	💄 july 🖌 🚽 🗇
🖉 Dashboard	Camera List								
📅 Devices	Online Cameras	s: 10/10				Shc	w preview when hovering on nan	ne/address Q   Sea	
Camera Management	Status	Camera Name	Address		Туре	Model	MAC Address	Firmware Version	Server
		Network Camera	192.168.69.247	80	MSSP	MS-C2971-X12RPC	1C:C3:16:2C:2D:75	45.8.44.3-r4-c3-push	July's System
			192.168.201.10	8092	RTSP				July's System
	1		192.168.201.10	8092	RTSP				July's System
	- E		192.168.201.10	8092	RTSP				July's System
	1		192.168.201.10	8092	RTSP				July's System
System & Servers	• •		192.168.201.10	8092	RTSP				July's System
	I		192.168.201.10	8092	RTSP				July's System
Server Settings			192.168.201.10	8092	RTSP				July's System
			192.168.201.10	8092	RTSP				
	• •		192.168.201.10	8092	RTSP				
Client Settings									

## 1. Add Device

#### Search Camera

Click "Add Device" button, the page is as below:

This VMS can search devices which are in the same network automatically, and you can also input device information in the Search box to filter out mismatching devices and get demanded ones only to be displayed in the Device List.

<b>M</b> ilesight	Live View Playback	Smart Analytics	E-Map Event & Alarm	Settings			🛚 🛓 🧳 🏦 🔹 july 🗸 — 🗗 🗙
Dashboard	Camera List Add Devi	ice					
E Devices	Device Searched by						
Camera Management	All Servers 🗸					🗹 Hide Added De	vices Q   Search
	Device Name	Address			Model	MAC Address	
	XNO-9083R	192.168.69.57		ONVIF		00:09:18:6E:DE:F9	
	HIKVISION DS-2XD8846/C	-IVW 192.168.69.71				4C:F5:DC:9E:B0:63	
	Network Camera	192.168.69.76		MSSP	MS-C4473-PB	1C:C3:16:21:03:8E	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.90		MSSP		1C:C3:16:50:03:F2	Milesight Technology Co., Ltd.
👼 System & Servers	ZN-AIBOX4	192.168.69.96		ONVIF		00:1C:88:F2:0D:08	
System Settings	ネットワークカメラ	192.168.69.102			PRO-530KEA	1C:C3:16:40:07:E1	
Server Settings	Network Camera	192.168.69.105		MSSP	MIN-5180	1C:C3:16:12:91:A5	IPCAM
	Network Camera	192.168.69.111				1C:C3:16:40:01:D9	World CNS
	Network Camera	192.168.69.115		MSSP	MS-C207E-SPB	1C:C3:16:30:01:04	Milesight Technology Co., Ltd.
	Network Camera	192.168.69.119		MSSP	MS-C2862-RFIPA		Milesight Technology Co.,Ltd.
	ipcamera			ONVIF		00:50:C2:65:24:D2	
	Network Camera	192.168.69.137	80	MSSP	MS-C2962-RFPA	1C:C3:16:11:D0:E9	Milesight Technology Co., Ltd.
🗔 Client Settings	SI-2000ICT	192.168.69.147		MSSP	VMI-2MPX23IR-SMW		VistaCCTV
- chern Settings	Network Camera	192.168.69.153		MSSP	MS+C5366-X12GOPC		Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.156		MSSP	MS-C2973-SPB	1C:C3:16:28:8C:87	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.158			MS-C8183-SPD	1C:C3:16:40:08:BB	Milesight Technology Co., Ltd.
	Network Camera	192.168.69.162		MSSP	TS8266-FIPE	1C:C3:16:50:05:01	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.163				1C:C3:16:46:89:AD	Milesight Technology Co., Ltd.
	Network Camera	192.168.69.165		MSSP	MS-C5366-X12GOPC	1C:C3:16:78:BC:D0	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.166			MS-C5372-FIPC		Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.167		MSSP	MS-C2966-X12TPE	1C:C3:16:50:04:1F	Milesight Technology Co., Ltd.
	Network Camera	192.168.69.170			MS-C2961-X12RPE	1C:C3:16:50:01:FB	Milesight Technology Co., Ltd.
	Network Camera	192.168.69.179		MSSP	MS-C2962-RFPC	1C:C3:16:2D:00:66	Milesight Technology Co.,Ltd.
	РМС	192.168.69.188		MSSP	PMC8266-X4PC	1C:C3:16:2D:45:87	Milesight Technology Co., Ltd.
	Network Camera	192.168.69.189		MSSP	MS-C5362-FILPC	1C:C3:16:28:21:69	Milesight Technology Co., Ltd.
≡	Selected: 0/41						Add Selected Add Manually

#### Add Camera

There are two methods available to add devices.

(1) This VMS provides "Add Selected" to add devices. Please refer to the steps as below:

**Step1:** Input device information in the Search box to search out the device which is going to be added in the same LAN;

Step2: Check the device box;

**Step3:** Click Add Selected button and the pop-up window is as below;

Add Manually		×
Add single device Batch addition		
*Device Name		*Protocol
Auto	~	ONVIF ~
*IP/Address		*Port
		80
∗Connect Type		*Server
Auto	~	Auto Assign V
*User Name		*Password
		Add Cancel

**Step4:** Enter password of the selected device and the server which the cameras will be added to;

**Step5:** Click button, a window will pop up to inform you whether the device is added successfully or not. The pop-up window is as shown below:

	Adding Results				×
			-	Hide successful items	Total: 1, Failed:1
	Camera Name	Address	Results	Reaso	n
	ΡΤΖ	192.168.69.135	Camera add failed.	Incorrect user nam	e or password
	Start Continuous Recordi	ng for added cameras a	bove		ОК
Ĩ	Adding Results				×
	Adding Results				
				Hide successful items	
	Camera Name	Address	Results	Reaso	in
	PTZ	192.168.69.135	Camera added successfully.		

**Note:** You can select the check box at the bottom to start continuous recording for added cameras.

Start Continuous Recording for added cameras above



(2) You can also add the camera manually, steps follow as below:

Step1: Click Add Manually	button, a window will pop up as shown below:
---------------------------	--

Add Manually			
Add single device Batch addition			
*Device Name		*Protocol	
Auto	~	ONVIF	~
*IP/Address		*Port	
		80	
∗Connect Type		*Server	
Auto	~	Auto Assign	~
*User Name		*Password	
		Add Car	icel

Step2: Enter device information;

**Note:** Those blank box must be filled, including Device Name, IP/Address, Port, User Name and Password.

**Step3:** Click Add button, a window will pop up to inform you whether the device is added successfully or not;

Step4: Click or button.

Through Protocol you can add Milesight cameras via IP/Domain, P2P or Milesight DDNS, cameras supporting ONVIF or other cameras supporting RTSP.

ONVIF Protocol page:

Add Manually		×
Add single device Batch addition		
*Device Name	*Protocol	
Auto		
*IP/Address	*Port	
	80	
*Connect Type	*Server	
Auto	<ul> <li>Auto Assign</li> </ul>	
*User Name	*Password	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	Add Cancel	

MSSP Protocol page:

Add Manually		×
Add single device Batch addition		
*Device Name		*Protocol
Auto	~	MSSP ~
*IP/Address		*Port
		80
*Connect Type		*Server
Auto	~	Auto Assign 🗸 🗸
*User Name		*Password
		Add Cancel

RTSP Protocol page:

Add Manually	×
Add single device Batch addition	
*Device Name	•Protocol
	RTSP ~
*RTSP Main Address	RTSP Sub Address
Primary Stream	Secondary Stream
*Connect Type	*Server
Auto ~	Auto Assign 🗸 🗸
*User Name	*Password
	Add Cancel

• P2P Protocol page:

Add Manually	×
Add single device Batch addition	
*Device Name	*Protocol
Auto	✓ P2P ✓
*MAC Address	*Server
1C:C3:16:	Auto Assign
*User Name	*Password
	Add Cancel

## • Milesight DDNS page:

Add Manually		×
Add single device Batch addition		
*Device Name		*Protocol
Auto	~	Milesight DDNS v
∗Domain		*Connect Type
ddns.milesight.com/		Auto 🗸
*Server		
Auto Assign	~	
*User Name		*Password
		Add Cancel

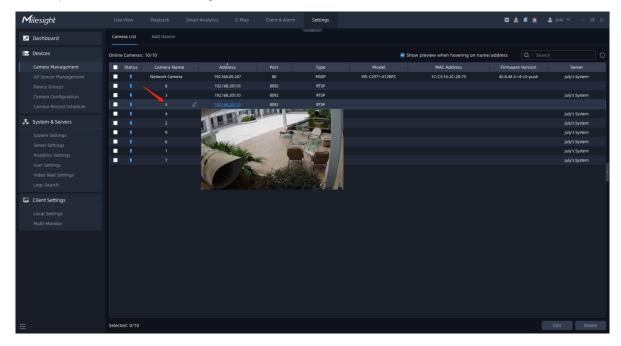
**Note:** Before you register Milesight VMS software, you can only add up to 4 channels. For more information, please refer to <u>License Activation (page 154)</u>

### 2.Camera List

The devices which are added will display in Camera List page.

M	lilesight	Live View	Playback	Smart Analytics E-Map	Event & Alarm	Settings			🛛 🕹 🖡 🖄	🛓 july 🖌 🚽 🗗 🗙
6	Dashboard	Camera List								
	Devices	Online Camera	s: 10/10				-	Show preview when hovering on name/a	address Q   5	
	Camera Management	Status		Address						
		I 1	Network Camera	192.168.69.247		MSSP	MS-C2971-X12RPC	1C:C3:16:2C:2D:75	45.8.44.3-r4-c3-push	July's System
		- E		192.168.201.10	8092	RTSP				July's System
		- E		192.168.201.10	8092	RTSP				July's System
		- 1		192.168.201.10	8092	RTSP				July's System
		1		192.168.201.10	8092	RTSP				
z.	System & Servers	- E		192.168.201.10	8092	RTSP				July's System
		- E		192.168.201.10	8092	RTSP				July's System
	Server Settings	Image: 1		192.168.201.10	8092	RTSP				
		- 1		192.168.201.10	8092	RTSP				July's System
	User Settings	1		192.168.201.10	8092	RTSP				July's System
5	Client Settings									
÷		Selected: 0/10								Edit Delete

Click Show preview when hovering on name/IP to check the checkbox, it will show preview window of the camera when your mouse hovers on camera name or IP. The interface is as below:



• Show preview when hovering on name:

• Show preview when hovering on IP:

<b>M</b> ilesight	t	Live View	Playback	Smart Analytics	E-Map	Event & Alarm	Settings			0 ± # 1	🛓 july 🖌 🚽 🗗 🗙
Jashboa	ard	Camera List									
Devices		Online Cameras						🗹 Sh	ow preview when hovering on nar	ne/address Q   Sea	
Camera M	4anagement	Status	Camera Name		ldress			Model	MAC Address	Firmware Version	
		• 1	Network Camera	192.1	58.69.247	80	MSSP	MS-C2971-X12RPC	1C:C3:16:2C:2D:75	45.8.44.3-r4-c3-push	July's System
		1			68.201.10	8092					
		1		192.1	68.201.10	8092	RTSP				July's System
						8092	RTSP				
		1			68.201.10						July's System
🦾 System &	k Servers	1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1			68.201.10						July's System
		I			68.201.10		1				July's System
Server Set		• •			68.201.10	X and William		And a			July's System
		1		192.1	68.201.10		Vite				July's System
		• •			68.201.10	10	AN				July's System
🖫 Client Set	ttings										
		Selected: 0/10									Edit Delete

#### Edit Camera

Click the "Edit" button to edit the added devices. All parameters can be edited except the Port, IP/Address and Mac Address. See as below:

Camera added by IP/Address:

Modify	X
*Device Name	*Protocol
Network Camera V	MSSP ~
*IP/Address	*Port
192.168.64.23	80
*Connect Type	*Server
Auto ~	test 192.168.69.15 ~
*User Name	*Password
admin	******
Parameters of connected cameras can be modified without	entering User Name and Password.
	Save Cancel

Camera added by P2P:

Modify	×
*Device Name	*Protocol
PTZ ~	P2P ~
*MAC Address	*Server
1C:C3:16:22:0B:53	grace 192.168.69.22 ~
*User Name	*Password
admin	<u></u> ++++++ → →
① Parameters of connected cameras can be modified without	entering User Name and Password.
	Save Cancel

#### Delete Camera

Click the "Delete" button to delete the added device, a window will pop up to inform you whether to delete the selected cameras. The pop-up window is as below:

?	Are you sure to delete 1 selected cameras? Can't be restored once deleted!	×
	Yes Cancel	



- Only check the added device, the "Edit" button and "Delete" button will be clicked.
- If the device you want to add has already been added, the name of the device that you have already set can be remained. In addition, you can still find it in the search list. Please make sure that you don't check "Hide Added Devices".

Milesight				Settings			🖾 🛓 📫 🎽 💄 july 🛩 — 6
Dashboard	Camera List Add Device						
o Devices	Device Searched by						
Camera Management	All Servers 🗸					🔄 Hide Added	Devices Q   Search
	Device Name	Address			Model	MAC Address	Manufacturer
	XNO-9083R			ONVIF		00:09:18:6E:DE:F9	
	HIKVISION DS-2XD8846/C-IVW	192.168.69.71	63235	ONVIE		4C:F5:DC:9E:B0:63	
	Network Camera	192.168.69.76		MSSP	MS-C4473-PB	1C:C3:16:21:03:8E	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.90		MSSP	TS2971-X12TPE	1C:C3:16:50:03:F2	Milesight Technology Co.,Ltd.
System & Servers	ZN+AIBOX4	192.168.69.96		ONVIF		00:1C:88:F2:0D:08	
	ネットワークカメラ	192.168.69.102			PRO-530KEA	1C:C3:16:40:07:E1	
Server Settings	Network Camera	192.168.69.105		MSSP	MIN-5180	1C:C3:16:12:91:A5	IPCAM
	Network Camera	192.168.69.111				1C:C3:16:40:01:D9	World CNS
	Network Camera	192.168.69.115		MSSP	MS-C207E-SPB	1C:C3:16:30:01:04	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.119			MS-C2862-RFIPA	1C:C3:16:11:29:00	Milesight Technology Co.,Ltd.
	ipcamera	192.168.69.133		ONVIF		00:50:C2:65:24:D2	
	Network Camera	192.168.69.137			MS-C2962-RFPA		Milesight Technology Co.,Ltd.
Client Settings	SI-2000ICT	192.168.69.147		MSSP	VMI-2MPX23IR+SMW	1C:C3:16:12:2C:11	VistaCCTV
Client Settings	Network Camera	192.168.69.153			MS+C5366-X12GOPC	1C:C3:16:2A:FA:EE	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.156		MSSP	MS-C2973-SPB	1C:C3:16:28:8C:87	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.158			MS-C8183-SPD	1C:C3:16:40:08:BB	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.162		MSSP	TS8266-FIPE	1C:C3:16:50:05:01	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.163				1C:C3:16:46:89:AD	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.165		MSSP	MS+C5366-X12GOPC	1C:C3:16:78:BC:D0	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.166			MS-C5372-FIPC		Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.167		MSSP	MS-C2966-X12TPE	1C:C3:16:50:04:1F	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.170			MS-C2961-X12RPE		Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.179		MSSP	MS-C2962-RFPC	1C:C3:16:2D:00:66	Milesight Technology Co.,Ltd.
	РМС	192.168.69.188		MSSP	PMC8266-X4PC	1C:C3:16:2D:45:87	Milesight Technology Co.,Ltd.
	Network Camera	192.168.69.189		MSSP	MS-C5362-FILPC	1C:C3:16:2B:21:69	Milesight Technology Co.,Ltd.

## 3.2.2 IoT Sensor Management

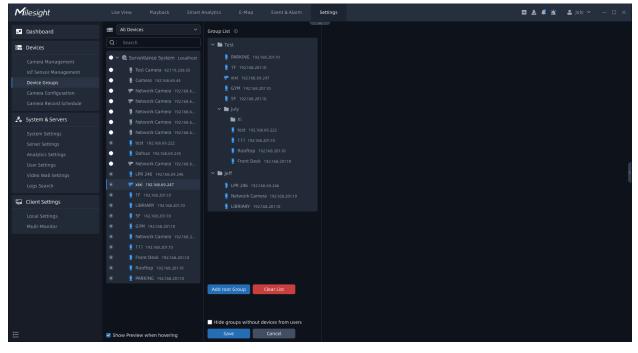
Here you can add and manage gateways and sensors. It perfectly brings together data from IoT sensors and generates actionable insights. Currently, the supported sensors are AI Workplace Occupancy Sensor VS121, 3D ToF People Counting Sensor VS132, AI ToF People Counting Sensor VS133, LoRaWAN Wall Switch WS50X, Smart Light Controller WS558, Magnetic Contact Switch WS301 and Smart Button WS101.

<b>M</b> ilesight	Live View	Playback Smart Analytic	s E-Map Event & Alarm	Settings		C 🕹 🧳	<u>ň</u> 💄 admin 🗸 — 🗗 🗙
Dashboard	Sensor List	Gateway List					
Bo Devices							Q   Search
Camera Management	Status						Latest Update Time
IoT Sensor Management	🗖 🚔	Gateway1	192.168.213.20		Milesight IoT Gateway	51 Server	2023/08/17 16:17:46
Device Groups	□ ⇔	Gateway2	192.168.210.6		Milesight IoT Gateway	51 Server	
Camera Configuration	□	Gateway3	192.168.213.21		Milesight IoT Gateway	51 Server	2023/08/17 16:17:43
Camera Record Schedule							
🛃 System & Servers							
System Settings							
Server Settings							
Analytics Settings							
User Settings							
Video Wall Settings							
Logs Search							
🗔 Client Settings							
Local Settings							
Multi-Monitor							
Ē	Selected: 0/3					E	dit Add Delete

**Note:** The VMS only supports people counting statistics for Line 1 from VS133.

# 3.2.3 Device Groups

By enabling the display and filtering of both cameras and IoT sensors, you can flexibly organize these devices into different groups according to your preferences.



**Step1:** Click the Add root Group to add a root Group and select the desired devices, and then click the to edit the name of the root Group. Or you can click the to remove it from the group;

**Step2:** Click the to add a Child Group, and select the desired devices, and then click the devices, and the d

**Step3:** After grouping the cameras, click the <sup>Save</sup>. A pop-up window will inform you "Group save successfully". If you want to delete all device groups at once, you can click the <sup>Clear List</sup>. To enhance the cleanliness and usability of the user interface, you can enable the option 'Hide groups without devices from users.' This setting ensures that only groups containing actual devices are displayed.

## Note:

• Creating Group List will automatically hide the Server List.

• Each camera can only be added to a group.

# 3.2.4 Camera Configuration

In the Camera Configuration, you can configure the parameters and events of the cameras as well as events related to server-based functionality on the VMS. The window as shown below.

Milesight			Settings		🖾 🛃 🌲 🏦 🌲 july 🌱 — 🗆 🗙
Jashboard		Front-end Configs VMS-end Configs			
Camera Management	✓ ■ Test PARKING 192.168.201.10	General Maintenance			
IoT Sensor Management Device Groups Camera Configuration Camera Record Schedule	<ul> <li>IF 192.168.201.10</li> <li>Xixi 192.168.69.247</li> <li>GYM 192.168.201.10</li> <li>SF 192.168.201.10</li> </ul>	General Device Information, Date & Time	Update Update & Restart	Video Primary Stream, Secondary Stream	Audio     Audio Setting
System Servers	✓ 🖿 July ■ Xi I test 192.168.69.222	General, Enhancement, Day/Night Settings	Basic, Auto Home, PTZ Limit		
Server Settings Analytics Settings User Settings	<ul> <li>111 192168.20110</li> <li>Rooftop 192168.20110</li> <li>Front Desk 192168.20110</li> </ul>	Front-end Basic Event	(المُوَّان Audio Alarm	'🚖' External input	៉ាំ External Output
Video Wall Settings Logs Search	<ul> <li>Deff</li> <li>LPR 246 192.168.69.246</li> <li>Network Camera 192.168.20</li> </ul>	Front-end VCA Event			
Client Settings Local Settings Multi-Monitor	<ul> <li>LIBRIARY 192168.20110</li> <li>✓ ■ Ungrouped</li> <li>✓ ■ Camera</li> </ul>	<ul> <li>Region Entrance</li> <li>Line Crossing</li> </ul>	<ul> <li>Region Exiting</li> <li>Loitering</li> </ul>	Advanced Motion     Detection     Object Left/Removed	(Tamper Detection
	) Test Camera 92.119.238.55 Camera 192.168.69.44 Vetwork Camera 192.168	Advanced			
	♥ Network Camera 192.168 ♥ Network Camera 192.168 ♥ Network Camera 192.168	People Counting	People Counting - Regional	People Counting Report	
	) Network Camera 192.168 Dahua 192.168.69.235 P Network Camera 192.168				
Ē					

## 3.2.4.1 Front-end Configs

Here you can select a device in the device list and directly click Configuration button on the interface or input key words in the Search box to make configurations.

#### 3.2.4.1.1 Maintenance

Click General Device Information, Date & Time, , the setting window will show as below.

#### Device Information

In this page, you can view the device's read-only firmware parameters as shown above, which are allowed to be selected and copied.

<b>M</b> ilesight	Live View Playback Smar	Analytics E-Map Event & Alarm <b>Settings</b>	🖾 🛓 🧳 🛕 🌲 july 🗸 — 🕫 🗙
Dashboard		A Device Information Date & Time	
Camera Management IoT Sensor Management Device Groups Camera Configuration Camera Record Schedule System & Servers	<ul> <li>Iuly's System Localhost</li> <li>Network Camera 1923168.69</li> <li>192168.20130</li> <li>192168.20130</li> <li>9 192168.20130</li> <li>6 192168.20130</li> <li>6 192168.20130</li> <li>7 192168.20130</li> <li>9 192168.20130</li> </ul>	Device Information           Product Model           Ms:C2971-x12RPC           Manufacturer           Milesight           MAC Address           1C:G316-2C2D75	
System Settings Server Settings Analytics Settings User Settings Video Wall Settings Logs Search	<ul> <li>7 192/162.20130</li> <li>1 192/168.20130</li> <li>2 192/168.20130</li> <li>3 192/168.20130</li> </ul>	Alarm Output 1 Sk191E5372N22 Software Version 45.844.3r4 <c3-push hardware="" td="" v1.0="" v1.0<="" version=""><td></td></c3-push>	
Client Settings		1 Alarm Input 1 Uptime 3 days 17 hours 41 minutes	

## Date & Time

Click "Date & Time" button, the setting page will show as below.

<b>M</b> ilesight	Live View Playback Smart Analytics	E-Map Event & Alarm Settings	🖾 🛓 📫 🚨 july 🛩 — 🕫 🗙
Dashboard	Q Search	vice Information Date & Time	
Camera Management Lof Sensor Management Device Groups Camera Configuration Camera Record Schedule System & Servers System Settings Server Settings Analytics Settings	8         19         122.06.20130         set Tin           9         122.06.20130         • NTF           6         5.92.06.20130         • NTF           7         122.06.20130         Utree           1         122.06.20130         Utree           1         122.06.20130         Daylig           2         122.06.20130         Auto           1         122.06.20130         Auto           2         192.168.20130         Auto           1         192.168.20130         Participation	Time 08/27 20:59:07 e Server ● Manually one 08:00) United States - Rocific Time 15 Saving Time natic ver Address http:rg	
User Settings Video Wall Settings Logs Search Client Settings Local Settings Multi-Monitor	₩TP Sy 1 day		

NTP Server page:

Set Time	
NTP Server	
Time Zone	
(UTC+08:00) China(Beijing, Hong Kong, Taipei)	~
Daylight Saving Time	
Disable	~
NTP Server Address	
pool.ntp.org	
NTP Sync. Interval	
1 hour	~
	Apply

## Manually page:

Set Time		
NTP Server	💿 Manually	
Date/Time		
2022/08/04 09:15:48		
Get Computer Time		
		Apply

The meanings of the parameters on the Date & Time page can be referred to the table as below:

## Table 2.

Parameters	Function Introduction
Current Time	Current date & time of the device.
Set Time	There are two options to set time, NTP server and Manually.
Time Zone	Choose a time zone for your location.

Parameters	Function Introduction	
Daylight Saving Time	Enable the daylight saving time.	
NTP Server Address	The address of NTP server.	
NTP Sync. Interval	Regularly update your time according to the interval time.	
Manually	Set date and time of device manually.	
Get computer time	Synchronize the time with your computer.	

After finishing the settings, you can click the "Apply" button to apply your settings to the the

selected camera. If you also want to set other parameters, you can click the button to go back the Device Configuration home page.

## Update

Here you can view and upgrade firmware of camera. Click Update Update & Restart button, the Update page will show as below:

Image: Dashboard       Image: Comment in the second	<b>M</b> ilesight		t Analytics E-Map Event & Alarm <b>Settings</b>	🖾 🛓 📫 👗 july 🗸 — 🗗 🗙
Selections     Image Management	Dashboard		Update & Restart	
Camea Management     I 4 192164_20110     Software Version       Device for outps     I 9 192164_20110     Immare Upgade       Camea Accord Schedule     I 6 192164_20110     Immare Upgade       System & Servers     I 7 192164_20110     Secter Timmare Upgade       System Settings     I 1 92164_20110     Device Reboot       Analytics Settings     I 1 92164_20110     Device Reboot       Video Wall Settings     I 3 192166_2010     Reboot       Video Wall Settings     I 3 192166_2010     Reboot	🐻 Devices		Firmware Upgrade	
Local Settings	IoT Sensor Management Device Groups Cameta Configuration Cameta Record Schedule System & Servers System Settings Server Settings Analytics Settings User Settings Video Wall Settings	<ul> <li>4 192.168.20130</li> <li>8 192.168.20130</li> <li>9 192.168.20130</li> <li>6 192.168.20130</li> <li>5 192.168.20130</li> <li>7 192.168.20130</li> <li>1 182.168.20130</li> <li>2 192.168.20130</li> </ul>	45.0.44.3-r4-C3-push Firmware Upgnade • Local Upload • Check Online Select Firmware File Upgnade Device Reboot	
	Local Settings Multi-Monitor			

\_

The meanings of the parameters on the Update page can be referred to the table as below: **Table 3.** 

Parameters	Function Introduction
	<b>Software Version:</b> The software version of the camera. There are two ways to upgrade firmware, including Local Upgrade and Check Online.
System Upgrade	<b>Local Upgrade:</b> Check the "Local Upgrade" checkbox and click button to select firmware file, then click the "Upgrade" button to upgrade. After the system reboots successfully, the update is done.
	Check Online: Check the "Check Online" button and then click Check.

Parameters	Function Introduction
	If the current firmware file of device is not latest version, a pop-up window will inform you whether to upgrade to the latest version as below:  Newer version 43.7.0.80-LPR3 is detected, upgrade?  OK Cancel
System Upgrade	When you click the "OK" button to upgrade, the upgrade process is as shown below:         Firmware Upgrade         Software Version         33.20.79-17         Firmware Upgrade         Local Upload       Check Online         Check         Upgrading, camera will be connected after upgrading and reboot, please         Device Reboot         Reboot         If the current firmware file of device is the latest version, a pop-up window will inform you that the current version is latest version as below:         If Device is up to date!         OK
Reboot	Click "Reboot" button to restart the device immediately

#### 3.2.4.1.2 Parameters

#### Video

#### Primary Stream

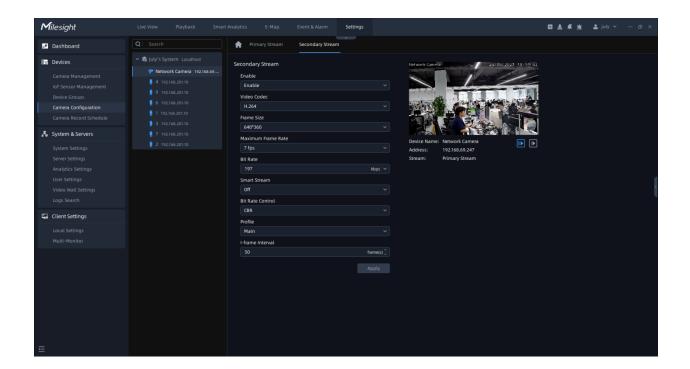
The Primary Stream page is as below:

Milesight	Live View Playback Smart	nalytics E-Map Event & Alarm Settings	🖸 🛓 🧳 🕍 💄 july 🗸 — 6° X
Dashboard		Primary Stream     Secondary Stream	
Image: Second	<ul> <li>With System Localhost</li> <li>Network Camera 192368.20</li> <li>4 192168.20110</li> <li>9 192168.20110</li> <li>9 192168.20110</li> <li>6 192368.20110</li> <li>5 192168.20110</li> <li>7 192168.20110</li> <li>9 192168.20110</li> <li>9 192168.20110</li> <li>9 192168.20110</li> <li>1 192168.20110</li> <li>1 192168.20110</li> <li>1 192168.20110</li> <li>3 192168.20110</li> </ul>	Primary Stream Record Stream Type General Vide Codee 1:234 Table Strea Sor Spis Bit Rate Sor Spis Smarth Stream Of The Stream Strea	
Client Settings Local Settings Multi-Monitor		CBR V Profile Main V I-frame interval 50 frame(s) C Apply	

The meanings of the parameters on the page can be referred to the Table

## **Secondary Stream**

Click the "Secondary Stream" button, the Secondary Stream page will show as below:



The meanings of the parameters on Video page can be referred to the table below:

Table 4.

Parameters	Function Introduction
Enable	This item is available only if you set set Secondary Stream for the device.
Record Stream Type	General & Event are available only for Primary Stream. General refers to continuous record video, while Event includes events that can trigger alarms, such as Motion, Exception, LPR and so on. This item can separately set different bit rate and frame rate for different Recording Stream Types. If user chooses Event, video will be recorded according to the configuration of video stream type when an event happens, thereby greatly reducing the recording storage space.
Video Codec	H.265/H.264/MJPEG available.
Frame Size	For Primary Stream, it includes 1080P (1920*1080), 1.3M (1280*960), 720P (1280*720), D1 (704*576). For Secondary Stream, it includes D1 (704*576), 640*480, 640*360, 352*288, 320*240, 320*192, 320*180.
Maximum Frame Rate	Maximum refresh frame rate per second up to 25fps.

Parameters	Function Introduction	
Bit Rate	Transmitting bits of data per second, this item is optional only if you select the H.264 and H.265.	
Smart Stream	Smart Stream mode remarkably reduces the bandwidth and the data storage requirements for network cameras while ensuring the high quality of images, and it is a 10-level adjustable codec. It is optional to turn On/Off Smart Stream mode. Level: Level 1~10 are available to meet your need.	
Bit Rate Control	<b>CBR:</b> Constant Bit Rate. The rate of CBR output is constant. <b>VBR:</b> Variable Bit Rate. The rate of VBR output will be variable according to the occupation of bandwidth.	
Image Quality	Low/Medium/High are available. This item is optional only if you select VBR.	
JPEG Quality	Low/Medium/High/Higher are available. This item is optional only if you selected the MJPEG.	
Profile	The option is for H.264. Base/Main/High can be selected according to your needs.	
I-frame Interval	Set the I-frame interval to 1~120. This item is optional only if you selected the H.264 and H.265.	

After finishing the settings, please click the "Apply" button.

**Note:** There is Primary and Secondary parameter configuration pages for Video interface of ordinary cameras and Fisheye camera under Bundle-Stream mode.

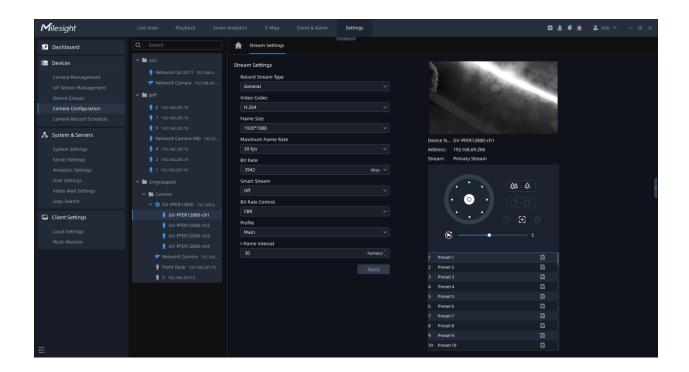
## Stream Settings

Video parameters of each channel of Fisheye camera can be configured separately under Multi-Channel mode. You can also focus on image position through control PTZ panel.

Primar

Select fisheye channel and click

, the page will show as below:



The meanings of the parameters on Video page can be referred to the table below:

Table 5.

Parameters	Function Introduction
Record Stream Type	General & Event are available only for Primary Stream. General refers to continuous record video, while Event includes events that can trigger alarms, such as Motion, Exception, LPR and so on. This item can separately set different bit rate and frame rate for different Recording Stream Types. If user chooses Event, video will be recorded according to the configuration of video stream type when an event happens, thereby greatly reducing the recording storage space.
Video Codec	H.264/H.265 available.
Frame Size	There are five options available, including 4000*3000, 3000*3000, 2560*2560, 1920*1920, 1280*1280.
Maximum Frame Rate	Maximum refresh frame rate per second up to 25fps.
Bit Rate	Transmitting bits of data per second, up to 16384 kbps.

Parameters	Function Introduction		
Smart StreamSmart Stream mode remarkably reduces the bandwidth and the d requirements for network cameras while ensuring the high quality and it is a 10-level adjustable codec.It is optional to turn On/Off Smart Stream mode.Level: Level 1~10 are available to meet your need.			
Bit Rate Control	<b>CBR:</b> Constant Bit Rate. The rate of CBR output is constant. <b>Note:</b> The default option is CBR and can't be changed to H.264 or H.2		
Profile	The option is for H.264. Base/Main/High can be selected according to your needs.		
I-frame Interval	Set the I-frame interval to 1~120.		

## <u>Audio</u>

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

Milesight		E-Map Event & Alarm Settings		🖾 🛃 🏛 🚢 july 🗸 — 🗗 🗙
Dashboard	Q   Search Audio	Setting		
Camera Management     Iof Sensor Management     Device Groups     Camera Configuration     Camera Configuration     Camera Record Schedule     System Servers     System Settings     Server Settings     Analytic Settings	<ul> <li>✓ €  uly's System Localhost</li> <li>GV-PER12800 192368.69.206</li> <li>✓ Network Camera 192368.69</li> <li>§ 192368.20110</li> <li>§ 4 192368.20110</li> <li>§ 1 92368.20110</li> <li>§ 1 92368.20110</li> <li>§ 1 92368.20110</li> <li>Both Audio Input</li> <li>§ 1 92368.20110</li> <li>Both Sudia (Strategies)</li> <li>§ 1 92368.20110</li> <li>Enable</li> </ul>	o Input & Output	Device Name: CV-PFER12800     Address: 192106.09.206     Stream: Primary Stream	
User Settings Video Wall Settings Logs Search	Sample Ra 8 kHz Input Gain			
Local Settings Multi-Monitor	Audio Outpu Auto Gain Disable Output Vol	control ume		

The meanings of the parameters on Audio page can be referred to the table below:

Table 6.

Parameters	Function Introduction		
Audio	<b>Enable:</b> Enable audio feature. <b>Audio Mode:</b> Only Audio Input, Only Audio Output, Both Audio Input & Output are available.		
Audio Input	<ul> <li>Denoise: Set it as Enable/Disable. When you enable the function, the noise detected can be filtered.</li> <li>Encoding: G.711-ALaw, AAC LC, G.722 and G.726 are available.</li> <li>Sample Rate: 8KHz, 16KHz, 32KHz, 44.1KHz, and 48KHz are available.</li> <li>Audio Bit Rate: The function is available only for AAC LC, and supports up to 256kbps.</li> <li>Input Gain: Input audio gain level, 0-100.</li> </ul>		
Audio Output	Auto Gain Control: This function improves the quality of audio, and it's available for H.265 series only. Output Volume: Adjust volume of output.		

## <u>Image</u>

### • General

Click the button, then the Image-General page will be as shown below:

Milesight	Live View Playback Smart	Analytics E-Map Event & Alarm Settings		🖾 🛓 📫 🔹 july 🖌 — 🗗 🗙
Dashboard		General Enhancement Day/Night Settings		
Image: Sevice Sevice Sevice Groups           Camera Management Iot Sensor Management Device Groups           Camera Configuration Camera Record Schedule           Image: Seviers           System & Servers           System Settings Sever Settings User Settings User Settings           User Settings           User Settings           User Settings           User Settings	<ul> <li>C July'S System Localhoxt</li> <li>GV-PFER12800 192.166.09.200</li> <li>Vetwork Camera 192.166.09</li> <li>192.166.201.10</li> <li>192.166.201.10</li> <li>192.166.201.10</li> <li>192.166.201.10</li> <li>192.166.201.10</li> <li>192.166.201.10</li> <li>3192.166.201.10</li> <li>3192.166.201.10</li> <li>7192.168.201.10</li> </ul>	Display Power Line Frequency S0Hz Outdoor / Indoor Mode Outdoor / Outdoor Keep Aspect Ratio Off Off Confor Cover Off Rotation & Flip Confoor Mode Off Off Off Off Off Off Off Off Off Of	<ul> <li>Device Hame: Network Camera</li> <li>Address: 192.168.69.247</li> <li>Stream: Primary Stream</li> </ul>	
Logs Search		Image Rotation Rotating 180° ~		
Local Settings Multi-Monitor		White Balance White Balance Mode Auto White Balance		
E		IR Performance IR Balance Mode Off Off Auto Mode Apply		

The meanings of the parameters on Image-General page can be referred to the table below:

#### Table 7.

Parameters	Function Introduction
Power Line Frequency	60Hz flicker for 30fps camera model and 50Hz flicker for 25fps camera model
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs
Keep Aspect Ratio	Enable to keep image Aspect Ratio
Zoom Limit	The PTZ Network Camera with optical zoom of 20X or above supports Zoom Limit function.
Local Display Video (Only for Pro Bullet)	Select NTSC or PAL for local display

Parameters	Function Introduction
Corridor Mode	There are three options available, you can select one to meet your need Off: Keep the image in normal direction Clockwise 90°: Rotate the image by 90° clockwise Anticlockwise90°: Rotate the image by 90° anticlockwise
White Balance Mode	To restore white objects, removed color distortion caused by the light of the environment Auto White Balance: This option will automatically enable the White Balance function Manual White Balance: This option is only for H.265 series. Set Red Gain Level and Blue Gain Level manually. Incandescent Lamp: Select this option when light is similar with incandescent lamp Warm Light Lamp: Select this option when light is similar with warm light lamp Natural Light: Select this option when there is no other light but natural light Fluorescent Lamp: Select this option when light is similar with Fluorescent Lamp Schedule mode: Select this option that you can customize the schedule to enable/disable above modes
IR Balance Mode	There is an option to turn On/Off the IR LED. IR Balance Mode would avoid the problem of overexposure and darkness, and the IR LED will change according to the actual illumination.
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 <b>Auto Mode</b> or <b>Customize</b> to achieve the best effect.
Near view IR level	Adjust the light strength of Low-Beams LED light level from 0 to 100.
Middle view IR level	Adjust the light strength of Middle-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.

Parameters	Function Introduction
Day/Night Switch Refocus	With this option enabled, the camera will refocus when switching between day mode and night mode.
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.
Lens Distort Correct (Only for 180°Panoramic Mini Bullet)	There are two options available, you can select one to meet your need Off: Select the original image of 180°Panoramic Mini Bullet On: Select the dewarping image of 180°Panoramic Mini Bullet

Here You can customize White Balance schedule, steps follow as below:

**Step1:** Choose Schedule Mode and click the <sup>B</sup> button, White Balance Schedule page will show as below:

<b>A</b>	General	Enhancemen	it		nt Settings	OS	D	ROI									
White	e Balance So	hedule												Select A	AII.	Clear A	.u
Sun Mon Tue Wed Thur Fri. Sat																	
	✓ Manu Incar Warn Natu	White Balance Jal White Balan Indescent Lamp In Light Lamp ral Light escent Lamp		Red G	/hite Balar ain Level ain Level	[s	0 0 0										
																Cancel	

Step2: Check the White Balance Mode which you are interested, and you can draw the

interested schedule or click the Select All button Select All to select all schedule interested.

**Step3:** Click the OK button and save **Save** button after all set.

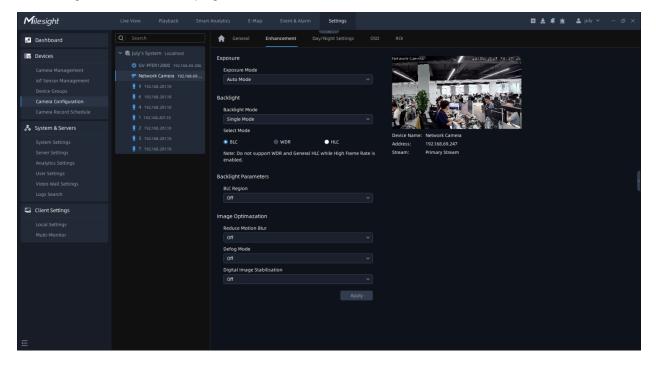
	ז כ 	2	3	4	5	6 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22 2	8
Sun.																						
Mon.																						
Tue.																				Сору		
Wed.																						
Thur.																				Su		
																				Mo Mo		
Sat.																				Tu We		
	A+	White Ba																		Th		
					anual Wh	ite Balance														Fri		
		ual White			Red Gair															Sa		
		ndescent			Blue Gai		50															
		m Light La			Blue Gai	n Level	50															
		ıral Light																				
	Fluc	rescent La	imp																			

**Note:** Auto White Balance can't be chosen in Schedule Mode.

You can set Red Gain level and Blue Gain level from 0 to 100 in Manual White Balance.

#### Enhancement

The Image-Enhancement page is as below:



The meanings of the parameters on Image-Enhancement can be referred to the table below:

## Table 8.

Parameters	Function Introduction					
Exposure Mode	Auto Mode, Manual Mode and Schedule Mode are available.  Auto Mode: The camera will adjust the brightness according to the light environment automatically.  Manual Mode: The camera will adjust the brightness according to the value you set.  Schedule Mode: You can click the to customize the exposure schedule, including Auto Mode and Manual Mode.  Note: WDR/HLC Schedule has higher priority than exposure settings during the same time period.					
Exposure Time	This option is just available for Manual Mode. You can set the exposure time from 1~1/100000s, the higher the value is, the brighter the image is.					
Gain Level	This option is just available for Manual Mode. You can set the exposure gain level from 1~100.					
Backlight Mode	Single Mode: Set single mode for BLC/WDR/HLC. Day/Night Mode: Support BLC/WDR/HLC on Day Backlight Mode/Night Backlight Mode separately. Schedule Mode: Set schedule mode for BLC/WDR/HLC.					
Day Backlight Mode	BLC/WDR/HLC are available.					
Night Backlight Mode	BLC/WDR/HLC are available.					
BLC Region	<ul> <li>Off, Customize, and Centre are available. (In single mode, only enable when WDR and HLC are disabled).</li> <li>Off: Calculate the full range of view and offer appropriate light compensation.</li> <li>Customize: This allows to customize inclusive or exclusive region manually.</li> <li>Centre: This option will automatically add an inclusive region in the middle of the window and give the necessary light compensation.</li> </ul>					

Parameters	Function Introduction
Wide Dynamic Range	<ul> <li>This function which can capture and display both bright and dark areas in the same frame enables details of objects in both bright and dark areas to be visible.</li> <li>Off: Always disable WDR function.</li> <li>On: Always enable the WDR and there are Low/High/Auto three levels.</li> <li>Customize: Customize the schedule to enable/disable the WDR function and set the levels with Low/High/Auto.</li> </ul>
WDR Level	Set WDR with Low/High/Auto level.
Anti-flicker Level	Reduce flickers that appear on screen in some lighting conditions and the anti- flicker level can be adjusted from 0~100.
HLC Mode	<ul> <li>This function is only for H.265 series to adjust the brightness to a normal range when the light is strong.</li> <li>Off: Disable HLC function.</li> <li>General Mode: Enable the general mode of HLC, and there is a setting for HLC Level.</li> <li>Enhancement Mode: Enable the enhanced mode of HLC, and there is a setting for HLC Level.</li> </ul>
HLC Level	HLC level can be adjusted from 0~100.
Reduce Motion Blur	Enable this function to reduce the motion blur of objects effectively. Deblur level can be adjusted from 0 to 100.
Defog Mode	Enable this function to provide better image effect in foggy weather. Defog intensity Defog intensity from 0 to 100.
Digital Image Stabilisation	Decrease the blur and shakiness of the image.
Lens Type (Only for Pro Box camera)	DC-Iris/P-Iris/Manual are available for different lens types.
Reduce Video Stuttering (Only for 5MP@20fps camera model )	Enable this function to reduce video stuttering effectively.

# Day/Night Settings

The Image-Day/Night Settings page is as below:

Milesight	Live View Playback Smart	Analytics E-Map	Event & Alarn	Settings		0 & # <u>*</u>	💄 july 🗸	– ø ×
Dashboard		🚖 General		//Night Settings				
Devices     Camera Management     IoT Sensor Management     Device Groups     Camera Configuration     Camera Record Schedule     System & Servers     System Settings	<ul> <li>Indy's System Localhost</li> <li>GV-PFER12800 192.168.69.206</li> <li>Vetwork Commers 192.168.69</li> <li>9 192.168.20130</li> <li>4 192.168.20130</li> <li>1 192.168.20130</li> <li>2 192.168.20130</li> <li>3 192.168.20130</li> <li>3 192.168.20130</li> <li>3 192.168.20130</li> </ul>	Day/Night Settings Day/Night Mode Auto Mode Day to Night Value Night to Day Value IR Light Sensor Va 100	2	36 0 Reset	Networ Carvin Calcul ADI, 10- 67 Calcul ADI,			
Server Settings Analytics Settings User Settings Video Wall Settings Logs Search Client Settings Local Settings		Day/Night Paramet Exposure Level Minimum Shutter Maximum Shutter Limit Gain Level	-☆- Day Mode 5 1/50	<ul> <li>Night Mode</li> <li>5</li> <li>1/50</li> <li>1/100000</li> <li>100</li> </ul>	Address: 192.168.69.247 Stream: Primary Stream			
Multi-Monitor		IR-CUT Latency IR-CUT LED Color Mode	5s On All LED Off Color Reset	5s Off IR LED On B/W				
E		Advanced 🛈 🌑		Apply				

The meanings of the parameters on Image-Day/Night Settings can be referred to the table below:

Table 9.	

Parameters	Function Introduction
Day/Night Mode	<ul> <li>There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with this mode.</li> <li>Auto Mode: Show in live view based on environment, set the sensitivity for switching Day Mode to Night Mode, or Night Mode to Day Mode</li> <li>Day Mode: Show in live view based on Day Mode settings</li> <li>Night Mode: Show in live view based on Night Mode settings</li> <li>Timing Switch: Show in live view based on your own settings' time to start/end Night Mode</li> </ul>
Day To Night Value	This is the sensitivity for switching <b>Day Mode to Night Mode</b> . When IR Light Sensor Current Value is lower than this value, it will switch Day Mode to Night Mode.

Parameters	Function Introduction
Night To Day Value	This is the sensitivity for switching <b>Night Mode to Day Mode</b> . When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode.
IR Light Sensor Value	The current value of the IR light sensor
Night Effective Time	You can set night effective time
Exposure Level	Level 0~10 are available to meet your need
Minimum Shutter	Minimum Shutter is the same as Maximum Exposure Time. Set the minimum Shutter from 1~1/100000s
Maximum Shutter	Maximum Shutter is the same as Minimum Exposure Time. Set the maximum Shutter from 1~1/100000s
Limit Gain Level	Limit gain level from 1~100
IR-CUT Latency	The interval time of switching one mode to another, and it can be set from 1s to 20s.
IR-CUT	Turn on or turn off IR-CUT
LED	All LED Off: Turn off all LED IR LED On: Turn on all IR LED White LED On: Turn on White LED
Color Mode	Select B/W or Color under Day/Night mode

Parameters	Function Introduction
Advanced	Here you can add up to 5 Customize Exception Mode, and click Save button to save the settings.

# • OSD

The Image-OSD page is as below:

Milesight Live View		Event & Alarm Settings		🖬 🛓 🚅 🖮 🚨 july 🗸 — 🕫 🗙
Q   Search	🔒 🔒 General Enh	ancement Day/Night Settings	OSD ROI	
Camera Management	Primary Stream           Primary Stream           Accented 192:108.09.200           K Camera 192:108.09           66:201:10           66:201:10           66:201:10           66:201:10           70:00 (192:108.09)           66:201:10           70:00 (192:108.09)           80:201:10           Top-Left           68:201:10           Show Timestamp (192:100.00.00.00.00.00.00.00.00.00.00.00.00.	v) [	<ul> <li>Perfect Name: Network Carnet</li> <li>Device Name: Network Carnet</li> <li>Address: 192166.69.247</li> <li>Stream: Primary Stream</li> </ul>	

The meanings of the parameters on OSD can be referred to the table below:

Table 10.

Parameters	Function Introduction
Font Size & Color	Smallest/Small/Medium/Large/Largest/Auto options are available for font size of title and date. You can also set different color for title and time as shown below:

Parameters	Function Introduction			
Show Video Title	Click the button to show video title. <b>Video Title:</b> Customize the OSD content. <b>Text Position:</b> There are four options available, including Top-Left, Top-Right, Bottom-Left and Bottom-Right. <b>Note:</b> Video Title and Text Position can be edited when you enable the button.			
Show Timestamp	Click the button to display date on the image. <b>Timestamp:</b> Choose timestamp show format, including YYYY-MM-DD, MM/DD/ YYYY and DD/MM/YYYY. <b>Date Position:</b> Date display position on the image, there are four options available, including Top-Left, Top-Right, Bottom-Left and Bottom-Right. <b>Note:</b> Timestamp and Date Position can be edited when you enable the button.			
Copy to Primary/ Secondary Streams	Copy the settings to other streams.			

Here you can choose to copy the settings of Primary Stream to Secondary Stream, vice versa.

# • ROI

Users can select up to 8 key regions of a scene to transmit through separate streams for targeted preview and recording.

<b>M</b> ilesight					ttings			0 ± 4 ±	💄 july 🗸	
Dashboard		🔒 General		Day/Night		OSD ROI	1			
Devices     Cameta Management     Iof Sensor Management     Device Groups     Cameta Configuration     Cameta Record Schedule     System & Servers     System & Servers     System Settings     Server Settings     User Settings     User Settings     User Settings	<ul> <li>Quily's System Locathost</li> <li>GV-PER12800 192166.00.206</li> <li>Vetwork Cances 192166.00.10</li> <li>9 192166.20130</li> <li>6 192166.20130</li> <li>1 192166.20130</li> <li>1 192166.20130</li> <li>2 192166.20130</li> <li>3 192166.20130</li> <li>3 192166.20130</li> <li>7 192166.20130</li> </ul>	ROI Primary Stream ID Clear All Secondary Stream	Name No d Name							
Logs Search Client Settings Local Settings Multi-Monitor		1 Clear All		•						

**Step1:**Enable the ROI function;

Step2: Choose primary stream or secondary stream;

Step4: Hold down the mouse to draw the area in the preview window;

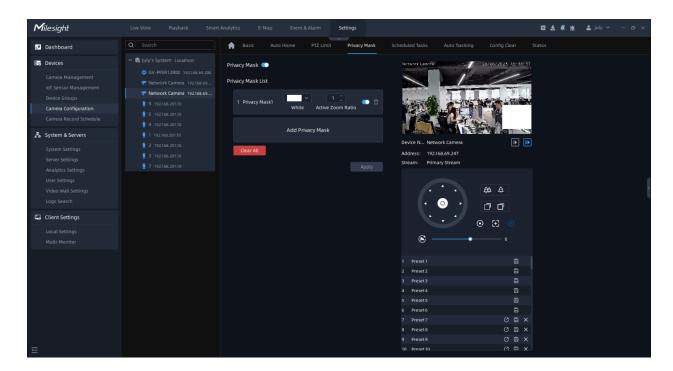
**Step5:** Click Apply button to apply settings.

## Privacy Mask

The VMS supports privacy mask function.

## (1) For non-AI series

It supports up to 24 areas, the setting steps are as below:



Step1: Enable the Privacy Mask function;

Step2: Choose the mask color;

Step3: Hold down the mouse to draw the area in the preview window and click

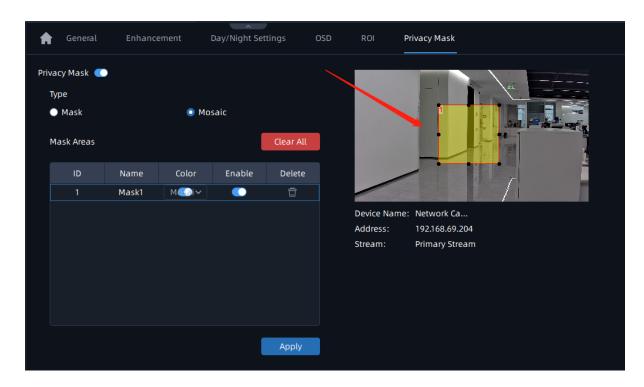
Apply button to apply settings;

**Step 4:** Click the × button to delete mask area, or click <sup>Clear All</sup> button to clear all drawn areas, then click the

Apply button.

### (2) For AI series

It supports up to 28 areas, which include 24 mask areas and 4 mosaic areas. The setting steps are as below:



Step1: Enable the Privacy Mask function;

Step2: Choose the mask type as Mask or Mosaic;

**Step3:** Hold down the mouse to draw the area in the preview window. If you choose the mask type as Mask, you can Change the color of Mask area, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and Purple.

**Step4:** Click button to enable or disable the corresponding areas, or click × button to delete the areas.

**Step5:** click the Apply button to apply the settings, or click Clear All button to clear all drawn areas.

<u>PTZ</u>

Basic

<b>M</b> ilesight	Live View Playback Smar	t Analytics E-Map Event & Alarm Settings	🖬 🕹 🦧 🖮 🚢 july 🗸 — 15 >
Dashboard		Auto Home PTZ Limit Privacy Mask	
Exercise           Camera Management IoT Sensor Management Device Groups           Camera Configuration Camera Record Schedule           System & Servers           System & Servers           System Settings Server Settings           Loss Festings Video Wall Settings Logs Search	<ul> <li>Chuly's System Localheat</li> <li>GV-PER12000 1922168.69.206</li> <li>Network Carnes 1922168.89</li> <li>919268.20130</li> <li>6 1922168.20130</li> <li>1 192268.20130</li> <li>1 192268.20130</li> <li>2 19268.20130</li> <li>3 1922168.20130</li> <li>3 1922168.20130</li> <li>3 1922168.20130</li> <li>3 1922168.20130</li> </ul>	PTZ OSO Zoom Status S seconds Pan & Itt Status S seconds Preset Status S seconds Preset & Speed Preset Reezing Disable Preset Speed S C Manual Speed	Device N Network Camera         De
Client Settings		Medium ~	
Local Settings Multi-Monitor		Patrol Patrol Recovering Disable ~ Patrol Recovery Time 10 (5-720)6	6 1 Preset1 2 2 Preset2 2
E		Focus Focus Mode Semi-Auto Minimum Focus Distance I Meter Apply	3     Preset 3     ID       4     Preset 4     ID       5     Preset 5     ID       6     Preset 7     ID       7     Preset 7     ID       8     Preset 8     ID       9     Preset 9     ID

The meanings of the parameters on PTZ-Basic can be referred to the table below:

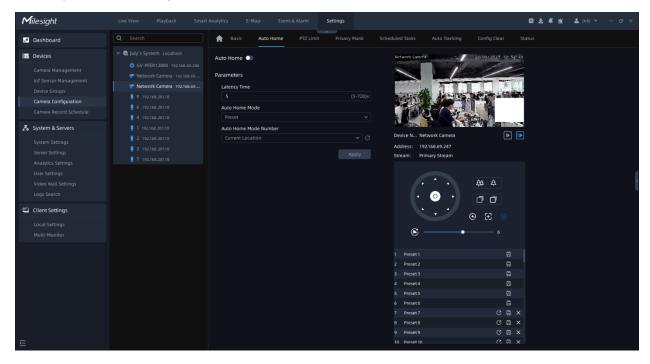
Та	h	e	1	1	
ıa	N				

Parameters	Function Introduction
PTZ OSD	Configure the OSD parameter, you can set the <b>Zoom status OSD, Pan&amp;Tilt</b> <b>Status, Preset Status</b> with Always Close/Always Open/2 seconds/5 seconds/10 seconds.
Preset Freezing	If Preset Freezing is enabled, 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 network system.
Preset Speed	It determines the speed of calling presets. Level 1~10 are available.
Patrol	<ul><li>Patrol Recovering: Click to enable Patrol Recovering.</li><li>Patrol Recovery Time: Set time for Patrol Recovering, which is between 5 to 720 seconds.</li></ul>
Focus	<b>Focus Mode:</b> Three focus modes are available: Auto/ Semi-Auto/ Manual. <b>Minimum Focus Distance</b> : 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.

Parameters	Function Introduction			
Power Off Memory	If the camera stop working for a longer time than predefined, then 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 from 30 seconds, 60 seconds, 300 seconds or 600 seconds to record its position.			
Initial Position	You can configure the Initial Position for PTZ cameras as a zero point. Set: Click to set the current position as a Initial Position. Clear: Clear the Initial Position to default settings. Call: Click to call the Initial Position.			

#### Auto Home

Auto Home allows the PTZ camera to return to a predefined Home Position automatically after a period of latency time. Click O to enable the Auto Home mode.



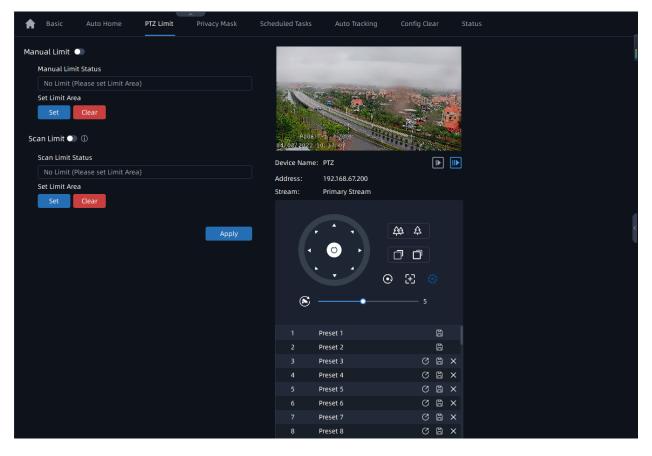
The meanings of the parameters on PTZ-Auto Home can be referred to the table below:

Table 12.

Parameters	Function Introduction		
Latency Time	Set a latency time to trigger Auto Home mode, 5-720s.		
Auto Home Mode	Preset: A preset point will take effect when triggering the Auto Home.		
Auto Home Mode Number	Select a predefined preset in the list, press to check the location. Also support to select current location.		

### • PTZ Limit

The PTZ camera can be programmed to move within the configurable PTZ Limits (Left/ Right and Up/Down).



Step1: Choose Manual Limit or Scan Limit;

Manual Limit:

When Manual limit stops are set, you can operate the PTZ control panel manually only in the limited surveillance area.

• Scan Limit:

When Scan limit stops are set, the auto scan is performed only in the limited surveillance area.

**Step2:** Click Delta button to enable the PTZ Limit function;

**Step3:** Click and then click the PTZ controller buttons to set the left/right/Up/Down limit stops. You can also call the defined presets and set them as the limits of the PTZ camera;

**Note:** After setting each limit stop, you need to click OK button.

**Step4:** After setting all limit stops, click Apply button to apply the limit stops, or

click to clear the settings.

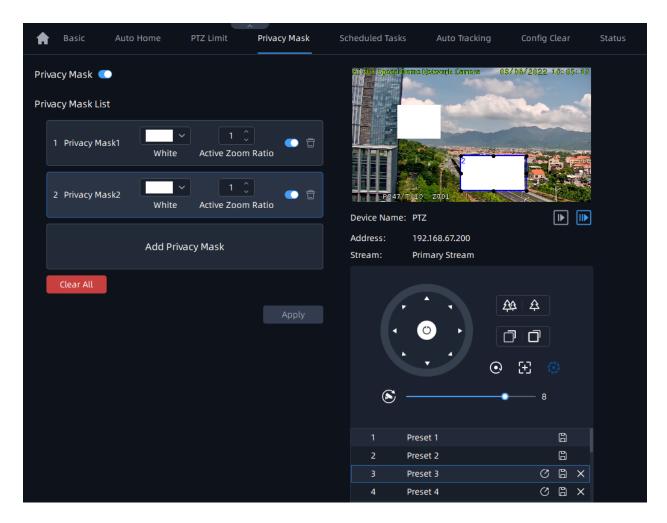
**B** Note: Manual Limit has higher priority than Scan Limit.

## Privacy Mask

Privacy mask enables to cover certain areas on the live video to prevent certain spots in the surveillance area from being viewed and recorded. The mask area does not move as the lens moves.

## (1) For non-AI series

You can set 8 mask areas at most. The setting steps are as below:



Step1: Enable the Privacy Mask function;

**Step2:** Click the Add Privacy Mask and hold down the mouse to draw the area in the preview window;

Step3: The added area will be listed in Privacy Mask List;

Step4: Configure color and Active Zoom Ratio for added Privacy Mask;

**Step5:** Click Apply button to apply Privacy Mask area. You can also click × button to delete mask area, or click Clear All button to clear all drawn areas.

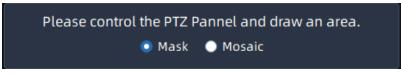
### (2) For AI series

You can set 28 mask areas at most, which includes 24 mask areas and 4 mosaic areas. The setting steps are as below:

🛖 Basic Auto Home	PTZ Limit Privacy Mask	Scheduled Tasks Auto T	acking Config Clear	Status
Privacy Mask 💿 Privacy Mask List			2	
1 Privacy Mask1 Yello	v 1 Ĵ w Active Zoom Ratio			
2 Privacy Mask2 Whi	te Active Zoom Ratio	P004/T-2 2200 04/0 <u>8/202</u> 2 10:40:54 Device Name: PTZ		
Add F	Privacy Mask	Address: 192.168.67.20 Stream: Primary Strea		
Clear All			44 4 0 0 0 E @	

Step1: Enable the Privacy Mask function;

**Step2:** Click the Add Privacy Mask and select the mask type as Mask or Mosaic, then hold down the mouse to draw the area in the preview window;



Step3: The added area will be listed in Privacy Mask List;

Step4: Configure color and Active Zoom Ratio for added Privacy Mask;

**Step5:** Click Apply button to apply Privacy Mask area. You can also click to button to delete mask area, or click Clear All button to clear all drawn areas.

The meanings of the parameters on PTZ-Privacy Mask can be referred to the table below:

Table	13.
-------	-----

Parameters	Function Introduction
	Click to enable or disable the Privacy Mask function.
Add Pilvacy Mask	Add the current drawing area as Privacy Mask.

Parameters	Function Introduction
×	Delete Privacy Mask area.
Clear All	Clear all areas you drew in the Privacy Mask list.
Color options box	Select the color for the privacy areas. There are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red, Violet. If you set the mask type to Mosaic, this option will be Mosaic by default and cannot be modified.
Active Zoom Ratio	Set the value of Active Zoom Ratio from 1 to 12 according to your needs, and then the mask will only appear when the zoom ratio is greater than the predefined value.

### Scheduled Tasks

You can configure the PTZ camera to perform a certain action automatically in a userdefined time period. The page is as shown below:

Step1: Check the checkbox to enable Scheduled Task;

Step2: Set the schedule and task details;

**Step3:** Set the Task Recovery Time (from 5-720 seconds). You can set the time (a period of inactivity) before the PTZ camera starts the schedule and task details.

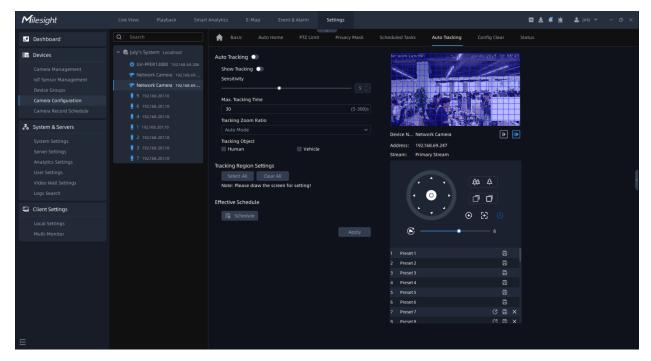
**Step4:** Click Apply button to save all the configurations.

## B Note:

- 1. The time of each task cannot be overlapped. Up to 10 tasks can be configured for each day.
- 2. The Scheduled Tasks function is prior to Auto Home function. When these two functions are set at the same time, only the Scheduled Tasks function takes effect.
- 3. You can click Select All button to select or close all schedules of different kinds of tasks.

## Auto Tracking

PTZ cameras support auto tracking of the moving objects after you configure this function.



Step1: Enable Auto Tracking function;

Step2: Choose whether to show tracking process;

Step3: Set detecting sensitivity from 1-10;

**Step4:** Set Max Tracking Time which must be between 5~300s. The camera will stop tracking when the tracking time expires;

Step5: Set Tracking Zoom Ratio including Auto Mode and Customize. The camera will

automatically adjust tracking zoom ratio when Auto Mode is chosen. When Customize is

chosen, user needs to set the tracking zoom ratio first by adjusting zoom button, then camera will automatically track the moving objects according to customized tracking zoom ratio and the object's proportion in the picture at the moment. At the same time, the object will always keep the same proportion in the picture during the tracking process.

**Step6:** Set Tracking Object. Check Human or Vehicle attribute, and the camera will automatically track the corresponding object;

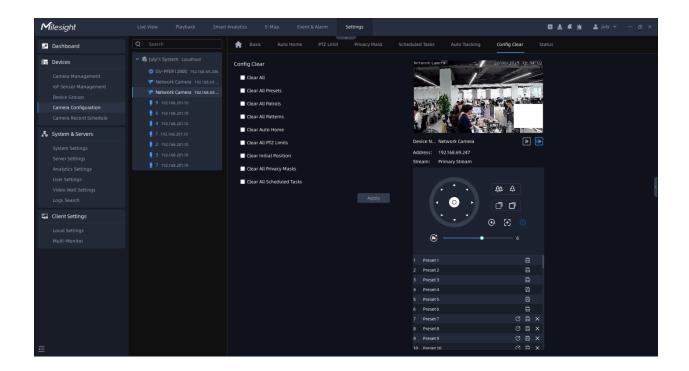
Step7: Draw the screen to set the detection region.

Step8: Click to set Auto Tracking schedule;
Step9: After setting the configurations, click Apply button to apply the settings.

**Note:** Please turn off Auto Home before using Auto Tracking.

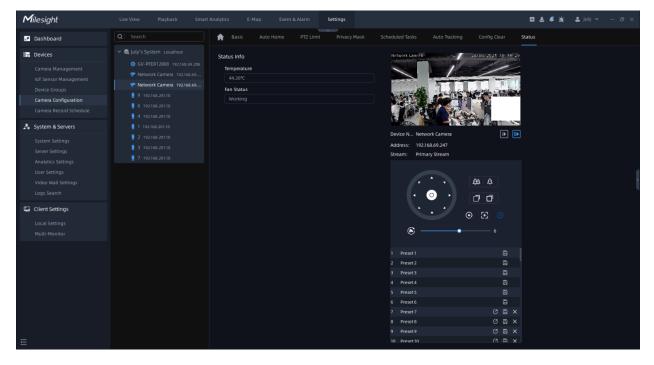
## Config Clear

Here you can clear PTZ configurations which you set before, including Clear All, Clear All Presets, Clear All Patrols, Clear All Patterns, Clear Auto Home, Clear All PTZ Limits, Clear All Privacy Masks and Clear All Scheduled Tasks. After checking the configuration clear checkbox, click "Apply" button.

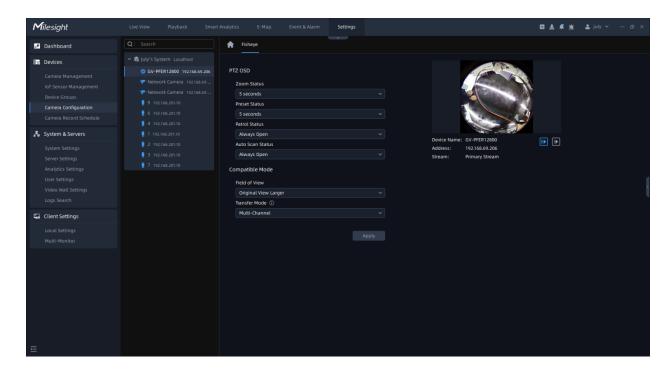


#### Status

Here you can know the status of the PTZ, including temperature, heater status and fan status.



**Fisheye** 



The meanings of the parameters on Fisheye can be referred to the table below:

Table 14.

Parameters	Function Introduction
Zoom Status	Support the settings of display time of Zoom Status OSD. 2seconds/5seconds/10seconds/Always Open/Always Close are available.
Preset Status	Support the settings of display time of Preset Status OSD. 2seconds/5seconds/10seconds/Always Open/Always Close are available.
Patrol Status	Support the settings of display time of Patrol Status OSD. Always Open/Always Close are available.
Auto Scan Status	Support the settings of display time of Auto Scan Status OSD. Always Open/Always Close are available.

Parameters	Function Introduction
Field of View	Support optional Field of View on Fisheye camera. Original View Larger: With this option enabled, the original view (1O) will have a larger viewing angle, and the other views will maintain the original viewing angle. Normal: With this option enabled, all views will maintain the original viewing angle. All View Larger: With this option enabled, all views will have a larger viewing angle.
Transfer Mode	Support Bundle-Stream Mode or Multi-Channel Mode to meet different needs. Bundle-Stream Mode: Combining multiple views into one channels. In this mode, there are Primary and Secondary streams. Multi-Channel Mode: Each view occupies one channel independently according to the Display mode. In this mode, there is only Primary stream for each channel.

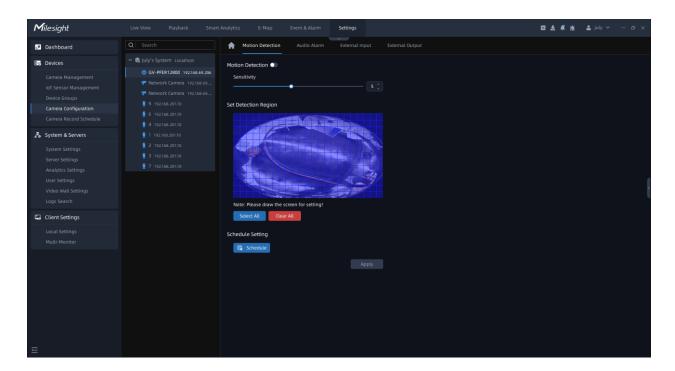
**Note:** After finishing the settings, you can click the Apply button to apply your settings to the VMS software.

### 3.2.4.1.3 Front-end Basic Event

This part mainly is to set some general alarm events, including Motion Detection, Audio Alarm, External Input and External Output.

#### Motion Detection

User can do the alarm settings here. The page is as shown below:



**Step 1:** Select the camera on the left tree which you want to set motion detection. Make sure button is enabled and draw certain areas by left-click mouse;

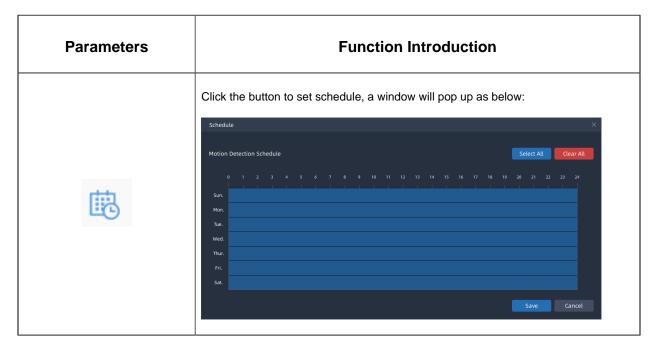
Step 2: Set Sensitivity and click to set schedule;

**Step 3:** Click Apply button to send the settings to camera to save.

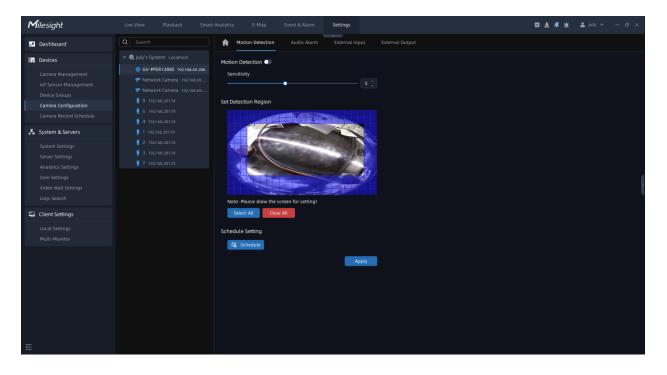
The meanings of the parameters on the page can be referred to the table below:

### Table 15.

Parameters	Function Introduction		
	Click to enable Motion Detection function.		
Sensitivity	Sensitivity level, 1~10		
Select All	Click the button, and the motion in the area will be detected.		
Clear All	Click the button, and the area drawn before will be removed.		

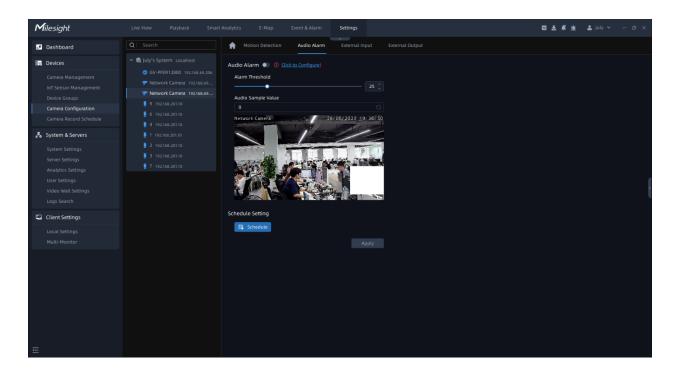


**Note:** It will show the real-time trigger status of the event in the configuration page.



### Audio Alarm

Enable the Audio before using Audio Alarm function.



**Step1:** Select the camera on the left tree which you want to set Audio Alarm. Make sure button is enabled;

Step2: Set Alarm Threshold and click to set schedule;

**Step3:** Click Apply button to send the settings to camera to save.

**Note:** Audio Sample Value represents the current audio value, and only for refresh and check.

#### External Input

Single External Input:

<b>M</b> ilesight		Analytics E-Map Event & Alarm Settings	🖾 🛓 📫 🔹 july 🖌 — 🔿 🗙
Dashboard		Motion Detection Audio Alarm External Input External Output	
Devices     Cameta Management     Iot Sensor Management     Device Groups     Cameta Configuration     Cameta Record Schedule     System & Servers     System Settings	<ul> <li>Quiy's System Locathoat</li> <li>GV-PER12800 192168.69.206</li> <li>Network Camera 192168.69</li> <li>Network Camera 192168.69</li> <li>19 19268.20110</li> <li>1 192168.20110</li> <li>1 192168.20110</li> <li>1 192168.20110</li> <li>2 192168.20110</li> <li>3 19268.2010</li> </ul>	External Input  Normal Status Curven Status Low Schedule Setting Schedule Apply	
Server Settings Analytics Settings User Settings Video Wall Settings Logs Search			
Local Settings Multi-Monitor			

# Double External Input:

Camera Management	uly's System Localhost © GV-PER12800 192168.69.206 P Network Camera 192168.69 9 192168.20110 6 1922168.20110 4 192168.20110	Motion Detection Audio Alarm  External Output  External Output  Open Current Status Grounded  Manual External Output	External Input	External Output	
Camera Management	<ul> <li>GV-PFER12800 192.168.69.206</li> <li>Vetwork Camera 192.168.69</li> <li>Network Camera 192.168.69</li> <li>9 192.168.201.10</li> <li>6 192.168.201.10</li> <li>4 192.168.201.10</li> </ul>	External Output • Open • Grounded Current Status Grounded			
Camera Management I of Sensor Management Device Groups Camera Configuration Camera Benord Schedule	<ul> <li>Network Camera 192.168.69</li> <li>Network Camera 192.168.69</li> <li>9 192.168.201.0</li> <li>6 192.168.201.0</li> <li>4 192.168.201.0</li> </ul>	Open     Grounded Current Status Grounded			
System & Servers	tent     • Network Camera 192186.69     • Grounded       ion     • 9 192366.20339     • Grounded       tion     • 6 192166.20339     • Grounded       • 1 192366.20319     • Grounded       • 1 192366.20319     • External Output       • 2 192366.20319     • External Output				
Server Settings	3 192.168.201.10 7 192.168.201.10	Start			ł
Client Settings Local Settings Multi-Monitor					

Please set the **Normal Status** firstly. When the **Current Status** is different with Normal Status, it will trigger the alarm.

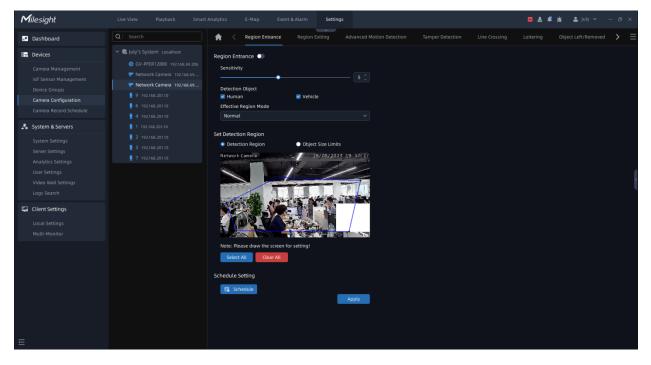
**Note:** There are two independently external input/output settings in the page because of some cameras with two sets of alarm input/output hardware.

### 3.2.4.1.4 Front-end VCA Event

Milesight VCA provides advanced, accurate smart video analytics for Milesight network cameras. It enhances the performance of network cameras through 8 detection modes which are divided into basic functions and advanced functions, enabling a comprehensive surveillance system and quicker response of cameras to different monitoring scenes.

### Region Entrance

The Region entrance helps to protect a special 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.



Step1: Select the camera and enable Region Entrance function;

Step2: Set detecting sensitivity;

**Step3:** Set up the Detection Object. Check Human or Vehicle attribute, and the camera will alarm and trigger related events once people or vehicle is detected;

**Step4:** Set Effective Region Mode. If you choose Normal, it supports configuring the Detection region for the current area. If you choose Advanced (Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far);

Step5: Draw the detection region.

Step6: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the

detected object. When the object is smaller than this size, it will not be detected.

The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the

detected object. When the object is larger than this size, it will not be detected.

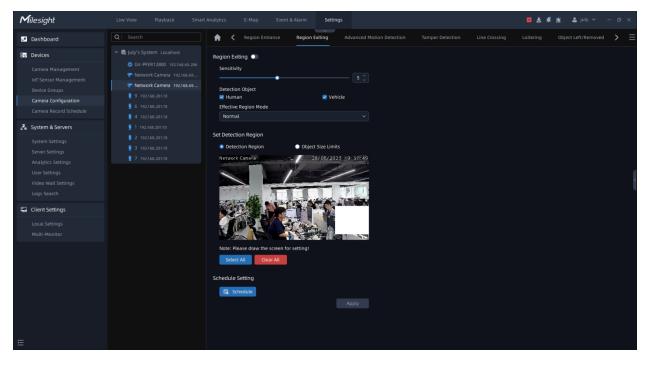
The default maximum size is 320\*240.

**Step7:** Set detection schedule, then click Apply to send the settings to camera to apply.

**Note:** For AI Camera Series, it will show the real-time trigger status of the event in the configuration page.

#### **Region Exiting**

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



Step1: Select the camera and enable Region Exiting function;

Step2: Set detecting sensitivity;

**Step3:** Set up the Detection Object. Check Human or Vehicle attribute, and the camera will alarm and trigger related events once people or vehicle is detected;

**Step4:** Set Effective Region Mode. If you choose Normal, it supports configuring the Detection region for the current area. If you choose Advanced (Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far);

**Step5:** Draw the detection region.

Step6: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the

detected object. When the object is smaller than this size, it will not be detected.

The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the

detected object. When the object is larger than this size, it will not be detected.

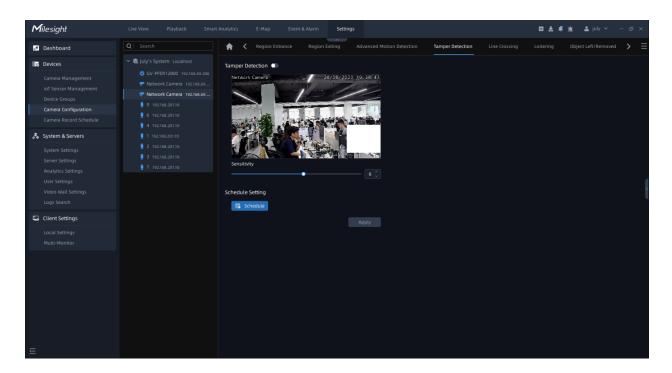
The default maximum size is 320\*240.

**Step7:** Set detection schedule, then click Apply to send the settings to camera to apply.

**Note:** For AI Camera Series, it will show the real-time trigger status of the event in the configuration page.

### Advance Motion Detection

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



Step1: Select the camera and enable Advanced Motion Detection function;

Step2: Set detecting sensitivity;

**Step3:** Set up the Detection Object. Check Human or Vehicle attribute, and the camera will alarm and trigger related events once people or vehicle is detected;

**Step4:** Set Effective Region Mode. If you choose Normal, it supports configuring the Detection region for the current area. If you choose Advanced (Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far);

Step5: Draw the detection region.

Step6: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the

detected object. When the object is smaller than this size, it will not be detected.

The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the

detected object. When the object is larger than this size, it will not be detected.

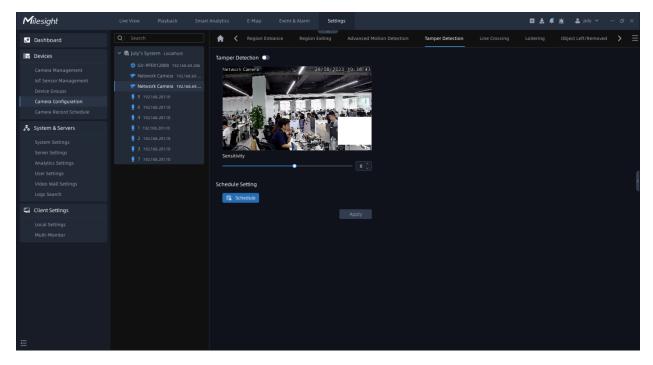
The default maximum size is 320\*240.

**Step7:** Set detection schedule, then click Apply to send the settings to camera to apply.

**Note:** For AI Camera Series, it will show the real-time trigger status of the event in the configuration page.

### 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 abovementioned actions occur.



Step1: Select the camera and enable Tamper Detection function;

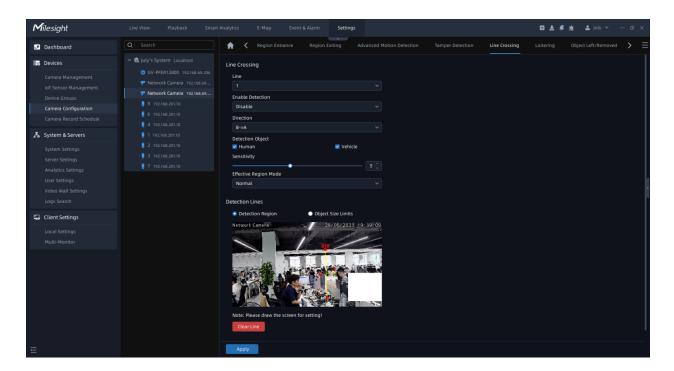
Step2: Set detecting sensitivity;

**Step3:**Set detection schedule, then click Apply to send the settings to camera to apply.

**Note:** For AI Camera Series, it will show the real-time trigger status of the event in the configuration page.

### Line Crossing

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



Settings steps are shown as follows:

Step1: Select camera and choose a line number;

Step2: Enable Line Crossing Detection function;

Step3: Define its direction;

**Step4:** Set up the Detection Object. Check Human or Vehicle attribute, and the camera will alarm and trigger related events once people or vehicle is detected;

Step5: Set detecting sensitivity;

**Step6:** Draw detection lines. If you choose Normal, it supports configuring the Detection line for the current area. If you choose Advanced (Only for PTZ series), it supports configuring the detection line for different PTZ presets (Only support Preset 1~4 so far);

**Step7:** Set detection schedule, then click Apply to send the settings to camera to apply.

Step8: Draw the detection region.

Step9: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the

detected object. When the object is smaller than this size, it will not be detected.

The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the

detected object. When the object is larger than this size, it will not be detected.

The default maximum size is 320\*240.

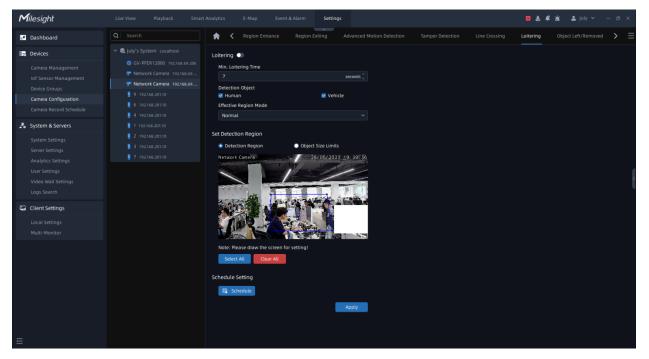
**Step10:** Set detection schedule, then click Apply to send the settings to camera to apply.

## Note:

- Milesight allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm. "A-->B" means when there is any object crossing the line from the "A" side to the "B" side, the alarm will be triggered. "B-->A" vice versa. "A<-->B" means that the alarm will be triggered when objects cross line from either side.
- 2. For AI Camera Series, it will show the real-time trigger status of the event in the configuration page.

### Loitering

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



Step1: Select camera and enable the Loitering function;

Step2: Set minimum loitering time;

**Step3:** Set up the Detection Object. Check Human or Vehicle attribute, and the camera will alarm and trigger related events once people or vehicle is detected;

**Step4:** Set Effective Region Mode. If you choose Normal, it supports configuring the Detection region for the current area. If you choose Advanced (Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far);

Step5: Draw the detection region.

Step6: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the

detected object. When the object is smaller than this size, it will not be detected.

The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the

detected object. When the object is larger than this size, it will not be detected.

The default maximum size is 320\*240.

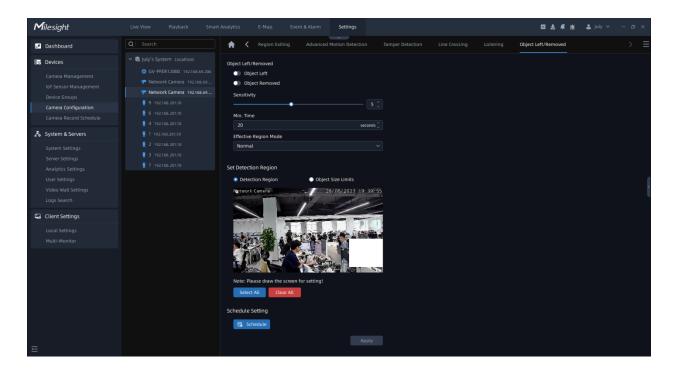
**Step7:** Set detection schedule, then click Apply to send the settings to camera to apply.

### Note:

- 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.
- For AI Camera Series, it will show the real-time trigger status of the event in the configuration page.

#### 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.



**Step1:** Enable Object Left or Object Removed (Or you can enable both features at the same time);

Step2: Set detecting sensitivity;

Step3: Set minimum time;

**Step4:** Set Effective Region Mode. If you choose Normal, it supports configuring the Detection region for the current area. If you choose Advanced (Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far);

Step5: Draw the detection region.

Step6: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the

detected object. When the object is smaller than this size, it will not be detected.

The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the

detected object. When the object is larger than this size, it will not be detected.

The default maximum size is 320\*240.

**Step7:** Set detection schedule, then click Apply to send the settings to camera to apply.

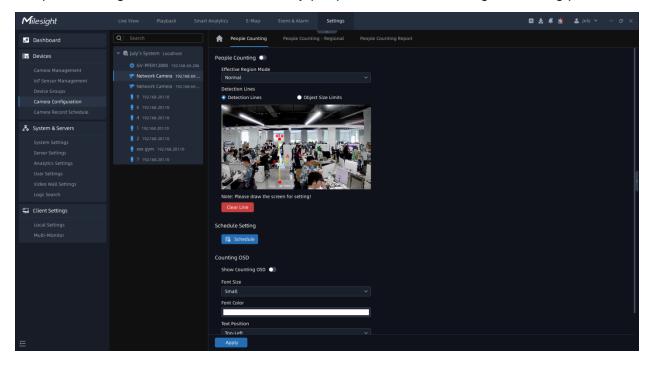
**Step8:** Click Apply to send the settings to camera to apply.

**Note:** 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.

#### 3.2.4.1.5 Advanced

#### People Counting

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



Step1: Select camera and enable the People Counting function;

**Step2:** Set Effective Region Mode. If you choose Normal, it supports configuring the Detection region for the current area. If you choose Advanced (Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far);

Step3: Set detection line;

Step4: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the

detected object. When the object is smaller than this size, it will not be detected.

The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the

detected object. When the object is larger than this size, it will not be detected.

The default maximum size is 320\*240.

**Step5:** Set detection schedule, then click Apply to send the settings to camera to apply.

#### Step6: Set Counting OSD;

Counting OSD	
Show Counting OSD 💿	
Font Size	
Small	~
Font Color	
Text Position	
Top-Left	
Clear Count	
Manually     Auto Reset	
Clear Now	
	Apply

Here you can check counting options which will display on the screen, and set font size, font color and text position. There are two types of clearing count, including Manually and

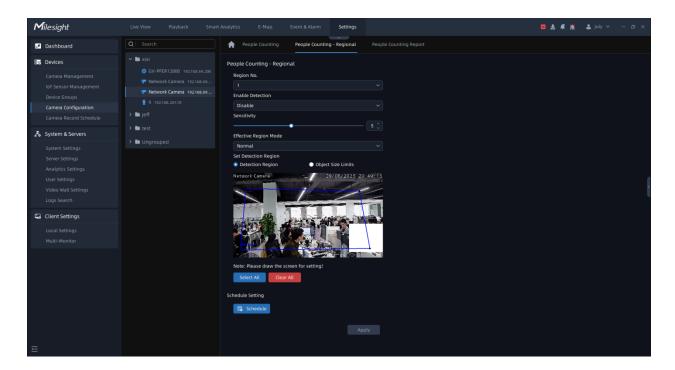
Auto Reset. You can check Manually and click Clear Now to clear counting, or check Auto Reset and choose when to automatically reset. The Auto Reset configuration interface is as below:

🔵 Manually	Auto Reset
Day to Reset	
Everyday	~
Time to Reset	
11: 28: 10	
	Apply
Sun.	
Mon.	
Tue.	
Wed.	
Thur.	
Fri.	
Fri. Sat.	

**Step7:** Click Apply to send the settings to camera to apply.

## Regional People Counting

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.



Step1: Select a detection area and enable it;

Step2: Set detecting sensitivity;

Step3: Draw the detection region.;

Step4: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the

detected object. When the object is smaller than this size, it will not be detected.

The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the

detected object. When the object is larger than this size, it will not be detected.

The default maximum size is 320\*240.

**Step5:** Set detection schedule, then click Apply to send the settings to camera to apply.

#### <u>ANPR</u>

This part is to enable the license plate recognition function and set related detection configuration for Milesight cameras which supports LPR function.

<b>M</b> ilesight		t Analytics E-Map Event & Alarm Settings	🖾 🛓 📫 🎽 🚨 july 🗸 — 🗗 🗙
Dashboard		ANPR Traffic Detection	
Devices	∼ 🖿 xixi	Enable Detection 💿	
Cameia Management IoT Sensor Management Device Groups Cameia Configuration Cameia Record Schedule System Settings System Settings Server Settings User Settings User Settings	<ul> <li>GV-PFR12800 192368.49.206</li> <li>Retwork Camera 192368.69</li> <li>Network Camera 192368.69</li> <li>9 192368.20130</li> <li>9 192368.20130</li> <li>4 192368.20130</li> <li>1 192368.20130</li> <li>1 192368.20130</li> <li>2 192368.20130</li> <li>i test</li> <li>ixxx gym 192368.20130</li> <li>7 192368.20130</li> </ul>	Country/Region Europe Ucrose Ucrose Ucrose UcroseStatus Valid Process Resolution 1920*1080 Valid Image Settings Enable LPR Image Mode  ©	
Logs Search	<ul> <li>✓ ■ Ungrouped</li> </ul>	Set Detection Region	
🗔 Client Settings	🗸 🖿 Camera	Effective Region Mode	
Local Settings Multi-Monitor	Pretwork Ca12311 19236           Front Desk 192268.20110           5 192268.20110	Normal	
Ē		Apply	

**Step1:** Click plates; button to enable Detection, the camera can start detecting the license



#### Table 16.

Parameters	Function Introduction
	Click the button to enable detection function.

Parameters	Function Introduction
License (Only for LPR2 and LPR3)	Generated by camera's information.
License Status (Only for LPR2 and LPR3)	Show present license status, including Valid and Invalid.
Country/Region	Select Country/Region to detect the license plate.
Process Resolution	Resolution of the stream for LPR Analytics, including 1920*1280, 1280*720.

**Step2:** The LPR Image Mode supports the optimal LPR night recognition effect by adjusting different parameter levels. Level 1~5 are available.

To enable LPR Image Mode, parameters of Backlight, Exposure and Day/Night Switch will be set to special values. Minimum Shutter of each Level: 1- 1/250, 2- 1/500, 3 - 1/750, 4 - 1/1000, 5- 1/2000.

Image Settings			
Enable LPR Image Mode Level	• <b>(</b> )		
		•	4 ्

Step3: Set Detection Region. You can draw the screen to select interested areas;

	Set Detection Region Effective Region Mode				
(	Norm				
	1882*1	067			
	A	dd Cle	Delete	e All	
	ID	Name	Edit	t Delete	
		ROI_1	l	Û	

Advanced Mode (For PTZ camera):

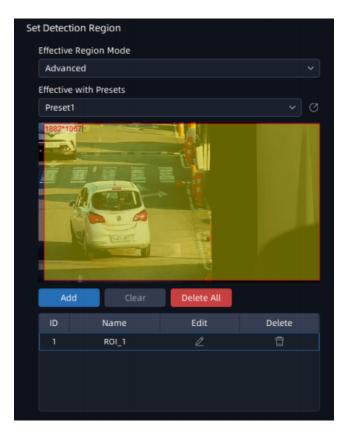


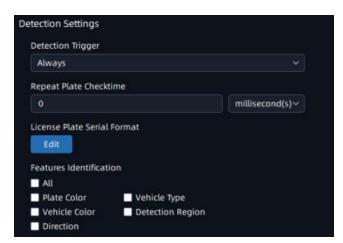
Table 17.

Parameters	Function Introduction	
Effective Region Settings	<ul> <li>Normal: Configure the LPR detection regions for the current area.</li> <li>Advanced: Configure different LPR detection regions for different PTZ presets(Only support Preset 1~4 so far).</li> </ul>	
Add	different PTZ presets(Only support Preset 1~4 so far).         Draw the screen to select the interested areas, then click "Add"button to add the area, and only four recognition areas can be added.         You can edit the name of the areas or delete the areas in the list below.         Image: Delete the list below.      <	
Clear	Click the "Clear" button to clear the area being drawn.	
Delete All	Click the "Delete All" button to delete all the added areas.	

**Step4:** Schedule Settings. You can draw the schedule by clicking schedule button;



**Step5:** Set Detection Settings, Snapshot OSD and LPR Message Post Settings, then click "Apply" button.



Font Size		
Medium		×
Font Color		
Enable Background	i Color 🌒	
OSD Position		
Тор		Ý
OSD Information		
🗹 All		
Plate		
🗹 License Plate 🗹 Plate Color	🛃 Plate Type	
Vehicle		
🛃 Vehicle Type	🗹 Vehicle Color	
Direction	🗹 Speed	
Others		
🗹 Time	Position	
🗹 Device ID	🛃 Detection Region	
🗹 Device Name 🛛 😪 Line Break Character		

R Message Post Settings	
Enable LPR Message Post 🌑	
Post Type 🛈	
ТСР	Ý
Camera LPR Port	
3344	
	Apply

## Table 18.

Parameters	Function Introduction
Detection Trigger	<ul><li>Always: in this mode, camera will always detect license plates.</li><li>Alarm Input: in this mode, camera will only detect license plates during Alarm Input is being triggered.</li></ul>
Confidence Level	You can set the confidence level from 1 to 10. When the confidence level of the license plate is higher than the set confidence level, it will push the license plate image to the Smart Search interface.
Repeat Plate Checktime	Set the time interval for repeatedly reading license plates to effectively avoid duplicate identification of parking vehicles. You can set Repeat Plate Checktime from 0 to 60min or 0 to 60000ms.

Parameters	Function Introduction	
	Click Edit button to customize the license plate serial format. It supports formulating identification rules and can automatically do further processing, filter license plates in non-compliant formats to achieve more intelligent and accurate license plate recognition.	
License Plate Serial Format	ALL     Filter out results with Incorrect character count     A - Letters Dnly     - Numbers Only     - Unrestricted Type     ExampleJAA111*     Save     Cancel	
Features Identification	Check All, Plate Color, Vehicle Type, Vehicle Color, Detection Region, Direction, or Region(Only for LPR2) to enable Feature Identification, and it will display the corresponding information on the ANPR Search interface.	
Font Size	Small/Medium/Large are available.	
Font Color	Set different colors for the image OSD.	
Enable Background Color	Enable to set different colors for display information background on screen.	
OSD Position	OSD display position on the image .	

Parameters	Function Introduction		
	Customize the OSD content. You can set OSD Information as shown below:		
OSD Information	OSD Information All Plate License Plate Plate Color Vehicle Vehicle Vehicle Type Vehicle Type Direction Speed Others Time Position Device ID Detection Region Line Break Character		
Enable LPR Message Post	Check the checkbox to enable LPR Message Post. It will push information to some third-party devices or software that are compatible with our sales.		
Post Type	Information can be pushed by <b>RTSP</b> , <b>TCP or HTTP</b> . <b>TCP</b> : Default Post Type, recommended for current VMS. <b>HTTP</b> : To push License Plate information to the configured HTTP server. <b>RTSP</b> : Only works with those server which support to receive ONVIF alarm stream via RTSP.		
HTTP Method	There are two HTTP push methods: Post and Get.		
Snapshot Type	Three kinds of snapshot can be chosen: All, License Plate and Full Snapshot. When you choose All, License Plate Snapshot and Full Snapshot will be pushed. <b>Note:</b> This option is available just for Post HTTP Method.		

Parameters	Function Introduction	
HTTP Notification URL	The VMS system can use the API URL to send LPR information to other devices when the license plate is recognized. The API URL format is as below: <u>http://IP:Port/api/lpr?</u>	
User Name	User name for HTTP Server.	
Password	Password for HTTP Server.	
Camera LPR Port	This option is available for TCP Post type.	

## Traffic Detection

<b>M</b> ilesight		t Analytics E-Map Event & Alarm Settings	🖾 🛃 🧯 🏦 🌲 july 🛩 — 🗗 🗙
Dashboard		ANPR Traffic Detection	
🐻 Devices	∼ 🖿 xixi	Enable Traffic Detection	
Cameta Management toT Sensor Management Device Groups Cameta Configuration Cameta Record Schedule System & Servers System Settings	<ul> <li>GV-FFER12800 1923166.0206</li> <li>Network Camera 192366.09</li> <li>Network Camera 192366.09</li> <li>9 192366.20130</li> <li>192366.20130</li> <li>4 192366.20130</li> <li>4 192366.20130</li> <li>1 192366.20130</li> </ul>	Installation Height 4.00 m Installation Angle 5.00 • Angle Compensation -9.00 • Set Detection Region	
Server Settings Analytics Settings User Settings Video Wall Settings Logs Search	<ul> <li> <u>↓</u> 2 192368,20130      </li> <li> <u>▶ test             <u>↓</u> xox gym 192168,20130         </u></li> <li> <u>↓</u> 7 192368,20130         </li> <li> <u>▶</u> Wingrouped         </li> </ul>	Coordinate X1         m           0.00         m           Coordinate Y1         m           0.00         m           Coordinate X2         m	
🗔 Client Settings	🗸 🛅 Camera	Coordinate Y2	
Local Settings Multi-Monitor	<ul> <li>Network Ca12311 19216</li> <li>Front Desk 192168.20110</li> <li>5 192368.20110</li> </ul>	0.00 m Trigger Distance 2500 m Note: The coordinate of radar position is (0,0).	
Ξ		Apply	

Step1: Click button to enable Traffic Detection and enter the camera installation information;

Enable Traffic Detection 🔍	
Installation Height	
2.00	m
Installation Angle	
10.00	٥
Angle Compensation	
0.00	o

#### Table 19.

Parameters	Function Introduction			
	Click the button to enable Traffic Detection function.			
Installation Height	Fill in the installation height according to the actual installation height of the camera.			
Installation Angle	Fill in the installation height according to the actual installation angle between the camera's field of view and the horizontal.			
Angle Compensation	Support angle compensation range: -30°~30°, default 0°. Angle compensation is mainly used as horizontal angle compensation, such as the radar cannot be installed in the middle of the road. In order to detect data more accurate, the angle between the installation position and the road can be compensated and corrected.			

**Step2:** Set Detection Region. Configure the radar detection area on the basis of the successful saving of the LPR detection area settings;

The user needs to measure the actual spatial position coordinates of the two coordinate points (relative to the Radar AI LPR Camera position). e.g.: You can adjust the position of P1, P2 by mouse, as shown in the figure below, move the P1 point to the white traffic line in the lower right corner, then you need to measure the horizontal and vertical distance from the camera to the actual position corresponding to the P1 point. Similarly, please complete the distance measurement of point P2.

We recommend that you move the P1 point marker to a more Obvious target (such as trees or other landmarks), so you can measure the distance easier.

The Radar detection area is a rectangle with diagonal lines in the two coordinate points;

t Detection Region	
Coordinate X1	
0.00	m
Coordinate Y1	
0.00	m
Coordinate X2	
0.00	m
Coordinate Y2	
0.00	m
Trigger Distance	
15.00	m
Note: The coordinate of radar position is (0,0).	

#### Table 20.

Parameters	Function Introduction			
Coordinate X1&Y1	X and Y axis parameters of P1 coordinates.			
Coordinate X2&Y2	X and Y axis parameters of P2 coordinates.			

Step3: Set LPR Detection Region Calibration.

To match LPR data, please configure LPR detection region calibration after radar detection. The calibration of the LPR detection area is mainly to match the space coordinates. The number of this configuration item shows the corresponding number according to the number of the LPR detection area. The data filled in is based on the corresponding trajectory map on the right when the target vehicle enters the area to find the target and fill in the X value shown above. To match LPR data, please configure LPR detection region calibration after radar detection.

For example, after you have drawn 3 detection areas, you can find the coordinate information corresponding to the targets in the three detection areas from the radar coordinates. You only need to fill in this coordinate information;

Step4: Schedule Settings. Set the effective time of traffic detection.

**Step5:** Traffic OSD Settings. Customers can choose the information that needs to be displayed in Live Video and the display format, such as color, size, etc.

Table 21.

Users can choose the information they want to display in Live Video.		
The font size and color of the OSD display, the default size is Medium.		
Manually reset the vehicle count.		
It is used to automatically clear the vehicle count at regular intervals (Just rese the OSD count for Live Video).		
<ul> <li>Direction</li> <li>Azimuth</li> <li>Counting</li> </ul>		
~		
y O Auto Reset		
Apply		

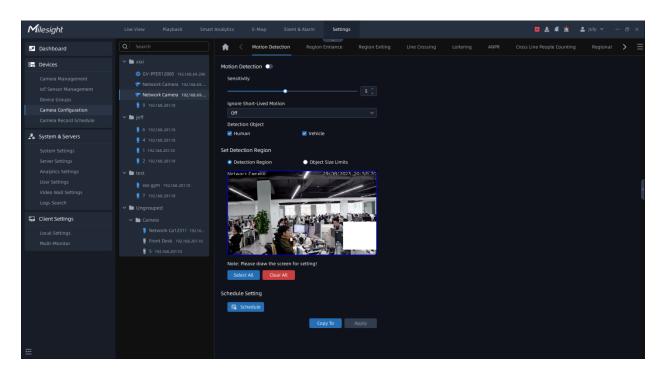
## 3.2.4.2 VMS-end Config

Currently Milesight supports VMS-end Video Analytics Events including Motion Detection, Region Entrance, Region Exiting, Line Crossing and Loitering. Users only need to add the Video Analytics Server and video streams to the VMS system, then the Video Analytics Events can be enabled on the VMS side.

#### 3.2.4.2.1 VMS-end Anlytics Events

#### Motion Detection

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



Step1: Select the camera and enable Advanced Motion Detection function;

Step2: Set detecting sensitivity;

**Step3:** Set up the Detection Object. Check Human or Vehicle attribute, and the camera will alarm and trigger related events once people or vehicle is detected;

**Step4:** Set Effective Region Mode. If you choose Normal, it supports configuring the Detection region for the current area. If you choose Advanced (Only for PTZ series), it supports configuring the detection region for different PTZ presets (Only support Preset 1~4 so far);

Step5: Draw the detection region.

Step6: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the

detected object. When the object is smaller than this size, it will not be detected.

The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the

detected object. When the object is larger than this size, it will not be detected.

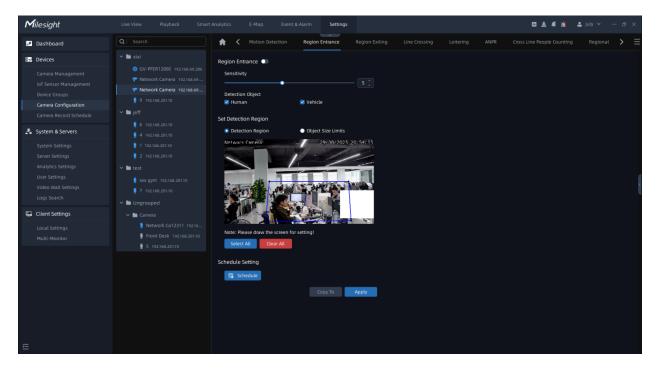
The default maximum size is 320\*240.

**Step7:** Set detection schedule, then click Apply to send the settings to camera to apply.

**Note:** For AI Camera Series, it will show the real-time trigger status of the event in the configuration page.

#### Region Entrance

The Region entrance helps to protect a special 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.



Step1: Select the camera and enable Region Entrance function;

Step2: Set detecting sensitivity;

**Step3:** Set Detection Object. Set up the Detection Object. Check Human or Vehicle attribute, and the camera will alarm and trigger related events once people or vehicle is detected;

Step4: Draw the detection region, it supports polygon areas.

Step5: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3\*3.

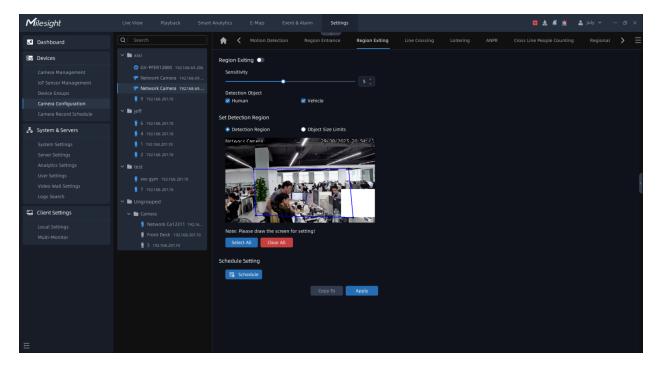
• Maximum Size: Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320\*240.

**Step6:** Set detection schedule, then click to save the settings.

**Note:** It will show the real-time trigger status of the event in the configuration page.

#### Region Exiting

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



Step1: Select the camera and enable Region Exiting function;

Step2: Set detecting sensitivity;

**Step3:** Set Detection Object. Set up the Detection Object. Check Human or Vehicle attribute, and the camera will alarm and trigger related events once people or vehicle is detected;

**Step4:** Draw the detection region, it supports polygon areas.

Step5: Set Object Size Limit.

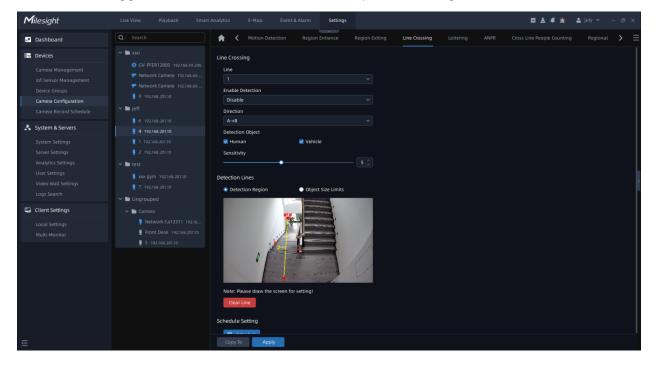
• Minimum Size: Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3\*3.

**Step6:** Set detection schedule, then click to save the settings.

**Note:** It will show the real-time trigger status of the event in the configuration page.

#### Line Crossing

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



Step1: Select camera and choose a line number.

Step2: Enable Line Crossing Detection function;

Step3: Define its direction;

**Step4:** Set Detection Object. Set up the Detection Object. Check Human or Vehicle attribute, and the camera will alarm and trigger related events once people or vehicle is detected;

Step5: Set detecting sensitivity;

Step6: Draw detection lines;

Step7: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320\*240.

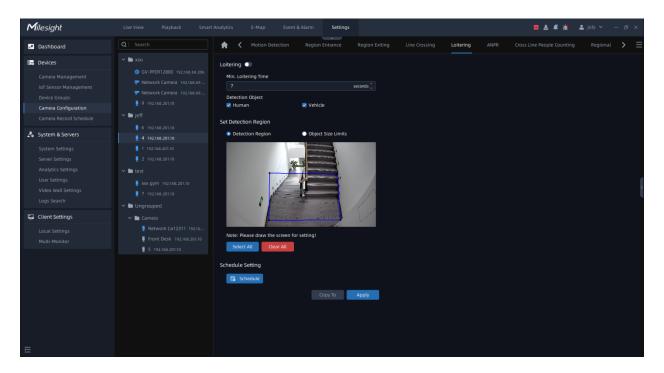
**Step8:** Set detection schedule, then click to save the settings.

**Note:** 1. Milesight allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm. "A-->B" means when there is any object crossing the line from the "A" side to the "B" side, the alarm will be triggered. "B-->A" vice versa. "A--->B" means that the alarm will be triggered when objects cross line from either side.

2. It will show the real-time trigger status of the event in the configuration page.

#### Loitering

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



Step1: Select camera and enable the Loitering function;

Step2: Set minimum loitering time;

**Step3:** Set Detection Object. Set up the Detection Object. Check Human or Vehicle attribute, and the camera will alarm and trigger related events once people or vehicle is detected;

**Step4:** Draw the detection region, it supports polygon areas.

Step5: Set Object Size Limit.

• Minimum Size: Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3\*3.

• Maximum Size: Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 320\*240.

**Step6:** Set detection schedule, then click Apply to save the settings.

#### Note:

- 1. After setting minimum loitering time from 3s to 1800s, any object loitering in the selected area over the minimum loitering time will trigger the alarm.
- 2. It will show the real-time trigger status of the event in the configuration page.

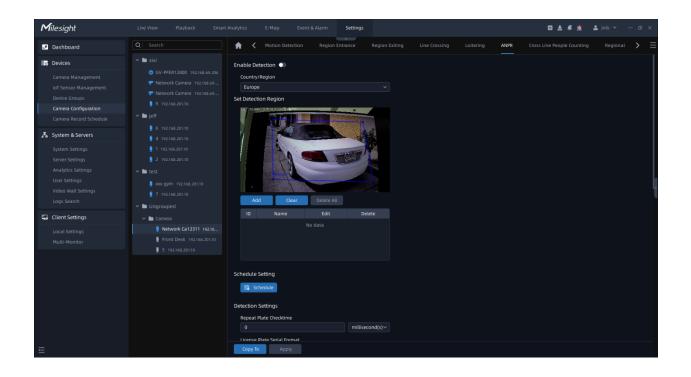
#### <u>ANPR</u>

This part is to enable the ANPR server-based algorithm, making it possible to use ANPR solutions whether it is an LPR camera or not.

Before setting, you need to confirm the following items:

• There is a license for ANPR in the system, and the license quantity is sufficient. For more information, please refer to <u>License Activation (page 154)</u>

• The Video Analytics Server has been installed and running. For more information about the analytics server, please refer to <u>3.3.3 Analytics Settings (page 170)</u>



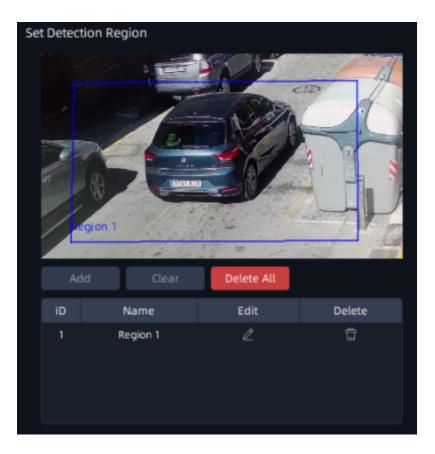
**Step1:** Click button to enable Detection, the camera can start detecting the license plates;

nable Detection 💽	
Country/Region	
Europe	~
Process Resolution	
1920*1080	~

#### Table 22.

Parameters	Function Introduction		
	Click the button to enable detection function.		
Country/Region	Select Country/Region to detect the license plate.		

Step2: Set Detection Region. You can draw the screen to select interested areas;

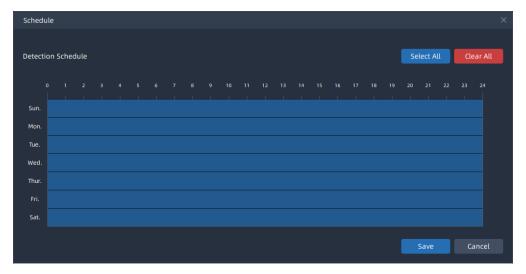


## Table 23.

Parameters	Function Introduction	
Effective Region Settings	<b>Normal:</b> Configure the LPR detection regions for the current area. <b>Advanced:</b> Configure different LPR detection regions for different PTZ presets(Only support Preset 1~4 so far).	

Parameters	Function Introduction			
	area, and o	nly four recognition are		"Add"button to add the n the list below.
	ID	Name	Edit	Delete
	1	ROI_1	l	Ū
Add	2	ROI_2	l	Ū
	3	ROI_3	l	Ū
		Minimum width of dete ea is 40 pixels.	ection area is 150 pixel	s, and Minimum height of
Clear	Click the "Clear" button to clear the area being drawn.			
Delete All	Click the "Delete All" button to delete all the added areas.			

**Step3:** Schedule Settings. You can draw the schedule by clicking Schedule button;

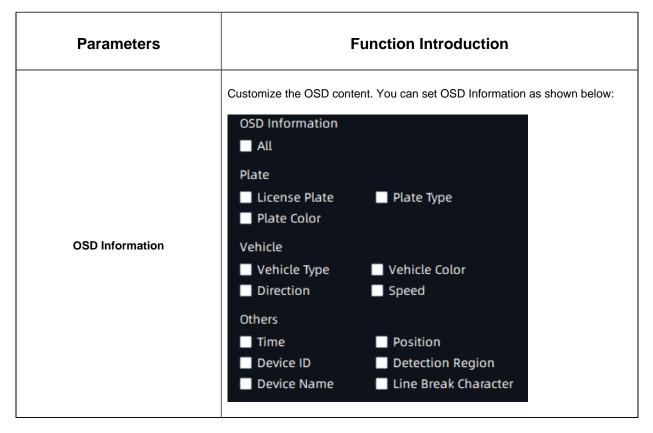


**Step4:** Set Detection Settings, Snapshot OSD and LPR Message Post Settings, then click "Apply" button.

Detection Settings			
Detection Trigger			
Always		~	
Repeat Plate Checkti	me		
0		millisecond(s)~	
License Plate Serial F	Format		
Edit			
Features Identificatio	n		
All Plate Color	Vehicle Type		
Vehicle Color	Detection Region		
Direction			
Snapshot OSD			
Font Size			
Medium		~	
Font Color			
Enable Background	Color 🕕		
OSD Position			
Тор		~	
OSD Information			
🗹 All			
Plate			
🗹 License Plate	🗹 Plate Type		
🗹 Plate Color			
Vehicle			
🗹 Vehicle Type	🗹 Vehicle Color		
Direction	🗹 Speed		
Others			
🗹 Time	🗹 Position		
Device ID	Detection Region		
🗹 Device Name	🗹 Line Break Character		

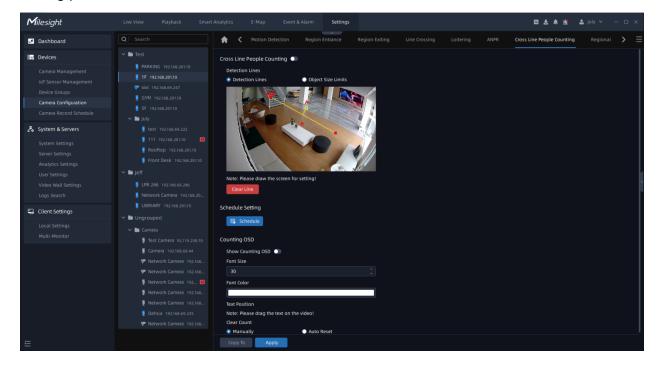


Parameters	Function Introduction	
Repeat Plate Checktime	Set the time interval for repeatedly reading license plates to effectively avoid duplicate identification of parking vehicles. You can set Repeat Plate Checktime from 0 to 60min or 0 to 60000ms.	
License Plate Serial Format	Click button to customize the license plate serial format. It supports formulating identification rules and can automatically do further processing, filter license plates in non-compliant formats to achieve more intelligent and accurate license plate recognition.	
Features Identification	Check All, Plate Color, Vehicle Type, Vehicle Color, Detection Region, Direction, or Region(Only for LPR2) to enable Feature Identification, and it will display the corresponding information on the ANPR Search interface.	
Font Size	Small/Medium/Large are available.	
Font Color	Set different colors for the image OSD.	
Enable Background Color	Enable to set different colors for display information background on screen.	
OSD Position	OSD display position on the image .	



#### **Cross Line People Counting**

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



Step1: Select the camera and enable the Cross Line People Counting function;

Step2: Set detection line;

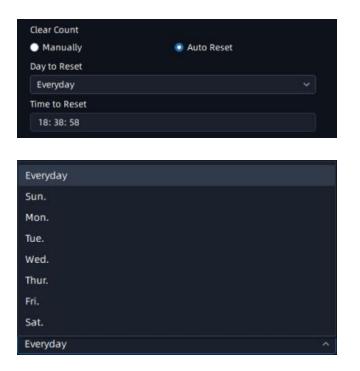
Step3: Click set detection schedule;

Step4: Set Counting OSD;

unting OSD		
Show Counting OSD 🥘		
🗹 In	🗹 Out	
Capacity	Sum	
Font Size		
30		
Font Color		
Text Position		
Note: Please drag the t	ext on the video!	
Clear Count		
Manually	Auto Reset	
Clear Now		

Here you can check counting options that will display on the screen, and set font size, font color and text position. There are two types of Clear Count, including Manually and Auto

Reset. You can check Manually and click Clear Now to clear counting, or check Auto Reset and choose when to automatically reset. The Auto Reset configuration interface is as below:

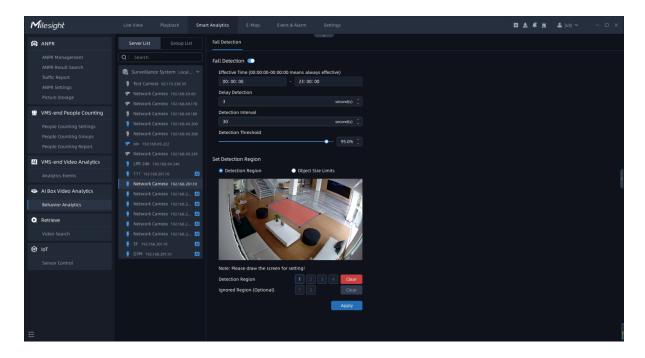


**Step5:** Click to send the settings to camera to apply.

#### 3.2.4.2.2 AI Box Events

#### **Behavior-Fall Detection**

The VMS supports the integration of Fall Detection between AI Box and VMS Enterprise. Users only need to add the AI Box and video streams to the VMS system, then the Fall Detection can be enabled on the VMS side.



Fall Detection

Step1: Select the camera and enable Fall Detection function;

Step2: Set Effective Time;

**Step3:** Set Delay Detection. If you set the time, when the moving duration of an object is within the setting time, the alarm will not be triggered;

**Step4:** Set Detection Interval. If you set the time, the alarm will not be triggered again the time interval ;

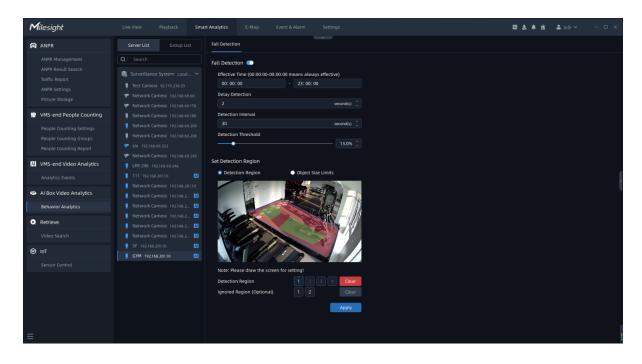
**Step5:** Set Detection Threshold. Depending on the needs of different usage scenarios, you can customize the threshold that triggers fall detection;

Step6: Draw the Detection Region, it supports drawing of 4 detection areas.

Step7: Set Object Size Limit.

- Minimum Size: Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 1%.
- Maximum Size: Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected. The default maximum size is 50%.

**Step8:** Set Ignored Region(Optional), the drawn area will not trigger the alarm. Then click to save the settings.



Note:

- One AI Box can analyze up to 8 channels of fall detection simultaneously.
- An AI Box cannot be used simultaneously with different VMS.
- The recommended resolution for network cameras is 1080P, since the total resolution of all channels exceeds 1080P\*8 may cause decoding issues with the AI Box.

• The system automatically assigns which AI Box is used to analyze each channel, eliminating the need for users to select.

When the AI Box's computing capability is insufficient to analyze the channels on VMS Enterprise, the interface will display a prompt message: "Compute capability full, please check AI Box's compute capability".

#### Face Recognition

The VMS supports the integration of Face Recognition between AI Box and VMS Enterprise, allowing users to centrally manage AI Box and alarm events on VMS Enterprise.

<b>M</b> ilesight	Live View Playback Smart Analytics	E-Map Event & Alarm Settings		🖬 🛓 📫 🔺 july 🗸 — 🗆 🗙
C Dashboard	Q   Search	Iehavior - Fall Detection Face Recognition		
Bordes           Camera Management lot Sensor Management           Device Groups           Camera Configuration           Camera Record Schedule           ✔           System & Servers           Server Settings           Server Settings           User Settings	Advar     F 192.146.20110     Advar     F 192.146.20110     Advar     Point     F 192.146.20110     Advar     Point     F 192.146.20110     F 192.146.20110	ccognition	Exer er           2des er <td< th=""><th></th></td<>	
Client Settings	Image: International	Interval millisecond(s) ()		
Multi-Monitor	Els Laffred 92.19.28.39     Camera 192.368.69.44     Max.     Network Camera 192.366     Max:     Network Camera 192.366     Network Camera 192.366	<b>%</b> ¢		

Face Recognition

**Step1:** Select the camera and enable Face Recognition. Check 'Body Detection' and 'Analyse the attributes of the Target' if you want to obtain more information about body attributes ;

Step2: Set Strategy Settings based on the actual application scenario;

- **Stranger Score Threshold:** Set the threshold, below which the target individual is labeled as a stranger, and above which it belongs to the Face Watch List.
- **Push Strategy:** If you set the 'Fast Push', it will push a face screenshot in the shortest time when the face is detected. Conversely, the 'Best Push' will push a face screenshot of best quality when the face is detected.
- **Recognition Retry Times:** Set this value, it determines the number of times, ranging from 0 to 5000, the system will attempt to recognize a face.

- **Recognition Retry Interval:** Set this value, it represents the time interval, ranging from 0 to 60 seconds, between successive retry attempts for facial recognition.
- **Stranger Recognition Retry:** Set this value, it allows for multiple retry attempts, ranging from 0 to 5, when detecting and identifying strangers during recognition.
- **Push Interval:** Set this value, it determines the time interval between each push notification.

**Step3:** Set Recognition Settings based on the actual deployment environment and installation conditions of the camera.

- Max. Roll Rotation Angle: Set this value, it specifies the maximum acceptable angle, ranging from 0-180°, of roll rotation for accurate face recognition.
- Max. Yam Horizontal Angle: It sets the maximum allowable horizontal yam angle, ranging from 0-100°, for precise face recognition.
- Max. Pitch Vertical Angle: It determines the maximum allowable vertical pitch angle for accurate face recognition.
- Blur: It represents the level of blurriness, ranging from 0-100%, that is considered acceptable for face recognition.
- **Min. Face:** It defines the minimum size requirement, ranging from 5-380 pixels, for detecting and recognizing faces.
- **Min Body:** It sets the minimum size threshold, ranging from 5-380 pixels, for detecting and recognizing the human body.

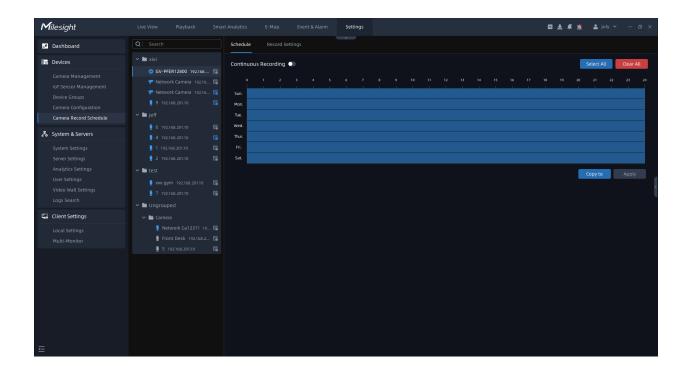
Once you have configured the above parameters according to your needs, you can click

the to apply the settings. You can also click the copy to copy the settings to other channels.

# 3.2.5 Camera Record Schedule

## 3.2.5.1 Schedule

Here you can set continuous recording schedule for the selected camera according to your needs, and clicking the Apply button to apply the settings. You can also click "Copy to" button to copy the settings to other channels.



When you click "Copy to" button, the page will show as below. You can check channels in which you are interested, and click Save button to apply your schedule to the other channels.

ect C	lamera	
Q	Search	
	🖿 xixi	
	✓ ◎ GV-PFER12800 192.168.69.206	
	📱 GV-PFER12800-ch1	臣
	) Network Ca12311 192.168.69.246	
	💎 Network Camera 192.168.69.247	臝
	🖿 Jeff	
	) 6 192.168.201.10	Ē.
	7 192.168.201.10	臝
	9 192.168.201.10	
	] Network Camera 000 192.168.201.10	Ē
	<u> </u>	<b>=</b>
	2 192.168.201.10	ŧ.
	1 192.168.201.10	臝
	🖿 Ungrouped	
	✓ 🖿 Camera	
	• • • • • • • • • • • • • • • • • • •	睵
Selecte		

## 3.2.5.2 Record Settings

Here you can configure some parameters for continuous recording schedule of selected channel.

<b>M</b> ilesight		Analytics E-Map Event & Alarm Settings	🖾 🛓 🚅 🚵 💄 july 👻 — 🗗 🗙
Dashboard		Schedule Record Settings	
Devices     Camera Management     Iof Sensor Management     Device Groups     Camera Configuration     Camera Record Schedule     System & Servers     System & Servers     System Settings     Server Settings     Urder Settings     Uvder Settings     Uvder Settings	<ul> <li>In xixi</li> <li>GV-PFER12800 192.164</li></ul>	Record Settings Record Stream Primary Stream Record Contain Video without Audio Pre Record Duration 5 second(s) Post Record Duration 30 second(s) Auto Customize Auto Customize	
Logs Search	✓ ■ Ungrouped	ANR () Diable	
Client Settings	✓ ■ Camera § Network Ca12311 19 (\$     From Desk 192266.2 (\$     For Desk 192266.2 (\$     For Desk 192266.20110	Copy to Apply	

The meanings of the items on the Record Settings page can be referred to the table below: **Table 25.** 

Items	Function Introduction	
Record Stream	Choose Primary stream, Secondary Stream or Dual Stream to record video.	
Record Contain	You can choose Video with Audio or Video without Audio to record video.  Note: When the recording is enabled with audio, it will pop up this prompt to show the audio status of the current  Record Contain  Video with Audio  channel.  Please enable device audio.Click to Configure	
Pre Record Duration	Enable the function for Continuous Recording schedule. re Record Duration can be set from 1~10s, the default time is 5s.	

Items	Function Introduction						
Post Record Duration	Enable the function for Continuous Recording schedule. Post Record Duration can be set from 10~60s, the default time is 30s.						
Archive Minimum Retention Time	Choose Auto, 30 days, 60 days, 90 days or Customize to set Archive Minimum Retention Time.						
Archive Maximum Retention Time	Choose Auto, 30 days, 60 days, 90 days or Customize to set Archive Maximum Retention Time.						
ANR	Enable or disable ANR function. This function is independent of schedule.  Note: Please make sure that you have the network storage device within the network or the SD card inserted in your camera.						

After finishing the settings and clicking the Apply button, you can click the "Copy to" button to copy the settings to continuous recording schedule of other channels. Then click the "Save" button to apply your settings to the other channels.

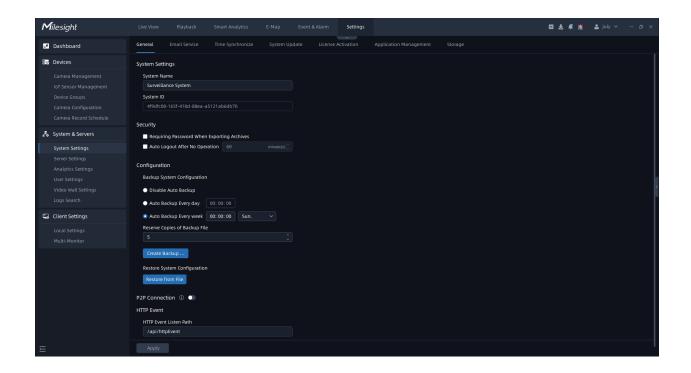
# 3.3 System and Servers

## 3.3.1 System Settings

Here you can view and edit configurations about VMS system. There are General, Email Service, Time Synchronize and License Activation.

## General

Click the "System Settings->General" button, the General page will show as below:



The meanings of the items on the page can be referred to the table below:

#### Table 26.

Items	Function Introduction					
System Name	You can customize the system name.					
Security	Requiring Password When Exporting Archives: Select the check box to set the password when exporting the archives. Auto Logout: If the user does not operate within the set time period, the VMS Enterprise Client will automatically log out from system for better security.					

-

Items	Function Introduction						
Backup System Configuration	Disable Auto Backup: Select the check box to disable auto backup. Auto Backup Everyday: Select the check box to enable auto backup at certain times everyday. Auto Backup Every week: Select the check box to enable auto backup at certain times of the day each week. Reserve Copies of Backup File: You can choose the number of the copies of backup file (5-10). You can also click manually.						
Restore System Configuration	Click Restore from File to restore system configuration.						
HTTP Event	HTTP Event Listen Path can be set by yourself.						

Items	Function Introduction
P2P Connection	Click button to enable P2P mode, and then users can choose P2P servers in different regions by themselves. After finishing the settings, click <b>Apply</b> button, a window will pop up to verify the user's password, input the password, and then click "OK" button to apply the settings to your VMS system. <b>Please verify the password</b> <b>user Name</b> <b>admin</b> <b>Password</b> <b>CK Cancel</b> After successfully enabling the P2P function, it allows M-VMS Mobile APP to access the system through the Internet in P2P mode. <b>P2P Connection C Region</b> <b>All</b> <b>P2P Status</b> <b>Waiting to Activate</b> <b>Waiting to Activate</b> <b>Mote:</b> You can download the M-VMS Mobile APP in the link: https:// www.milesight.com/support/download

## **Email Service**

Here you can set your VMS system to send emails. Click the "System Settings->Email Service" button, the Email Service page will show as below:

<b>M</b> ilesight	Live View Playback	Smart Analytics E-Map	Event & Alarm Setting	s	🖸 🕹 🕊 🖄	💄 july 🛩 🛛 – 🗗 🗙
🖉 Dashboard	General Email Service		Update License Activation			
Bo Devices	Outgoing Email					
Cameta Management IoT Sensor Management Device Groups Cameta Configuration Cameta Record Schedule System & Servers System Settings Server Settings Server Settings User Settings User Settings User Settings	User Name User Email Address User@mail.com Password SMTP Server Address SMTP Port SMTP Address SMTP Addres	• 115				
Logs Search		Test Apply				
Local Settings Multi-Monitor						

The meanings of the items on the page can be referred to the table below:

Table 27.

Items	Function Introduction			
User Name	The sender's name. It is usually the same as the account name.			
Email Address	Sender Email Address.			
Password	The password of the sender.			
SMTP Server Address	The SMTP Server IP address or host name (e.g. smtp.gmail.com).			
SMTP Port	The port of SMTP Server. The default TCP/IP port for SMTP is 25(not secured). For SSL/TLS port, it depends on the mail you use.			
Encryption	Click to enable SSL or TLS if it is required by the SMTP server.			

After finishing the settings, you can click "Test" button to send a test email to the recipient email address, then click "Apply" button. If you want to see the setting effect, then you need to set event action as Send Email and Email Address of the receiver user which email will be sent to.

More details about the Send Email action can see the table of <u>Event Rule Settings (page</u> <u>344)</u>.

More details about the Email Address of user which receive the emails can set in the <u>User</u> <u>Management (page 173)</u>.

## **Time Synchronize**

Users can set synchronize mode for VMS time, including Do Not Sync, Internet Time and Specific Server. In addition, users can synchronize VMS time to the devices. This page is as shown below:

<b>M</b> ilesight	Live View Playback Smart Analytics E-Map Event & Alarm Settings	🖾 🛓 📫 🚨 july 🛩 — 🕫 🗙
Dashboard	General Email Service Time Synchronize System Update License Activation Application Management Storage	
Devices	Time Synchronize	
Camera Management IoT Sensor Management Device Groups	VMS TimeEach server will use its own time.	
Camera Configuration Camera Record Schedule	Synchronize Mode   Do Not Sync	
🛃 System & Servers	Internet Time	
System Settings	● Specific Server	
Server Settings Analytics Settings User Settings Video Wall Settings Logs Search	Server         Date         Time         Time Zone         VMS Time                 Q.             Localhost: July's System             2023/08/30             13:17:36             UTC+08:00             13:17:36               13:17:36	l
🗔 Client Settings		
Local Settings Multi-Monitor	Device Time Sync Device Time Sync Every day 00:00:00 Every week 00:00:00 Sun. VMS Servers will not synchronize time to any devices. Sync: Now Apply	
Û.		

The meanings of the items on the page can be referred to the table below:

#### Table 28.

lte	ms	Function Introduction						
	Do Not Sync	Choose this item, then each server added to VMS system will use its own time as shown below:						
Synchronize Mode	Internet Time	Choose this item, then VMS system will use Internet to synchronize time as shown below:						

lte	ms	Function Introduction					
Synchronize Mode	Specific Server	Check this item and choose a server time as VMS time as shown below: Time Synchronize VMS Time 13:19:16 2023/08/30 Synchronize Mode • Do Not Sync • Internet Time • Specific Server • Server Date Time Time Zone VMS Time • Cocalhoxt July's System 2023/08/30 13:19:17 18 UTC+08:00 13:19:16					
	Do Not Auto Sync	VMS Servers will not synchronize time to any device under this option.					
	Every Day	VMS Servers will synchronize VMS time to all devices every day according to the user's setting.					
Device Time Sync	Every Week	VMS Servers will synchronize VMS time to all devices every week according to the user's setting. <ul> <li>Every week</li> <li>00:00:00</li> <li>Sun.</li> </ul>					
	Sync. Now	Click this button and the VMS Server will synchronize time to all devices.					

## System Update

Here you can update any client, server, video wall and analytics server in the system as needed. The list shows the information of all clients, servers, video walls and analytics servers in the system, including Component, Server name, IP Address, Current Version, Newer Version, System, Platform and Status. This page is as shown below:

<b>M</b> ilesight	Live View	Playback	Smart Analytics	E-Map	Event & Alarm	Settings			0 ± 4 j	🛓 💄 july	• – @ ×
Dashboard					odate License	Activation					
📅 Devices		Type		Quantity	Activation	Code		Expiry Time	Status		peration
Camera Management		Camera Access			Free Tri	al	July's System Localhost	2022/08/24 12:00:22	Expired		
loT Sensor Management		Camera Access	64		1e8b-180c-a1	df-e87f	🎕 🛛 July's System Localhost	2028/08/11 00:00:00	Working		
Device Groups		Video Wall	64	4	5630-b543-1b	c2-2fda	July's System Localhost	2026/08/01 00:00:00	Working		
Camera Configuration		Video Analytics	64		6d2c-5435-31	9f-38e0	🎕 🛛 July's System Localhost	2079/07/07 00:00:00	Working		
		ANPR			b290-b75d-98	65-84e6	n July's System Localhost 🕄	Never expire	Working		
🛃 System & Servers											
System Settings											
🗔 Client Settings											

There are two update ways, including Online Update and Local Update.

#### Online Update

**Step1:** Click Online Update button to check Online Update. Click button to update to the target version.

**Note:** As long as any node of the server or client in the system has Internet, online version detection and upgrade can be performed.

#### Local Update

**Step1:** Click **Local Update** button to check Local Update. Click button to upload the specified version higher than the current one. After the upload is successful, the corresponding version will be displayed in the target version column.

**Step2:** Click button to update to the target version. If no version is uploaded, by default, the target version is the latest version.

#### License Activation

Now our VMS supports Camera Access License, Video Wall License, Video Analytics License and ANPR License.

- 1. Camera Access License: Limit the number of camera channels that can be added. (regardless of the manufacturer);
- 2. Video Wall License: Limit the number of Video Wall monitors that can be active at the same time.;
- 3. Video Analytics License: Limit the number of channels that can be deployed with server-side AI intelligence. (3rd-party devices only).
- 4. ANPR License: Limit the number of channels that can be deployed with server-side ANPR algorithm.

Here you can get a six-months free trial with 4 camera access when your server firstly is added to VMS system. You need to purchase our license to access more channels.

<b>M</b> ilesight				Settings				a 🕹 🕊 📺	💄 july	
Dashboard				Activation						
📷 Devices										
	Camera Access		Free Tria	nt	July's System Localhost	2022/08/24 12:00:22	Expire	2d		
IoT Sensor Management	Camera Access		1e8b-180c-a7		July's System Localhost	2028/08/11 00:00:00	Worki			
Device Groups	Video Wall	6	5630-b543-1b		July's System Localhost	2026/08/01 00:00:00	Worki			
Camera Configuration	Video Analytics		6d2c-5435-319		July's System Localhost	2079/07/07 00:00:00	Worki			
	ANPR		b290-b75d-98	55-84e6	July's System Localhost	Never expire	Worki	ng		
🛃 System & Servers										
System Settings										
🗔 Client Settings										
Multi-Monitor										
									Overview	Activate License

There are three activation license ways, including Free Trial Activation, Online Activation and Manual Activation.

**Note:** The VMS allows for the sharing of licenses between failed servers and other servers within the same system, effectively reducing costs for customers. This license sharing feature is applicable within a 7-day validity period.

#### (1) Free Trial Activation

**Step1:** Click Activate License button to pop up a "Activate New License" window as shown below:

Activate New License ×								
License to								
alison 192.168.69.19		~						
Activation Code								
·····								
Free Trial	Online	Manual						

Step2: Select a server that the license will be registered. If you firstly use the VMS software,

and you can directly click Free Trial button to activate a free trial license, then the license will be added to license list successfully.

## (2) Online Activation

**Step1:** Click Activate License button to pop up a "Activate New License" window as shown below:

Activate New License	×
License to	
grace 192.168.69.22	~
Activation Code	
Online Man	ual

**Step2:** Input Activation Code and click

button to verify your activation code;

**Step3:** After verifying your activation code successfully, the license will be added to the License Activation list and displayed working status.

#### (3) Manual Activation

If neither target server nor client computer is not connected to the Internet, then licenses can be activated offline. The manual activation steps can be referred to as below:

**Step1:** Click Activate License button to pop up a "Activate New License" window as Online Activation shown above:

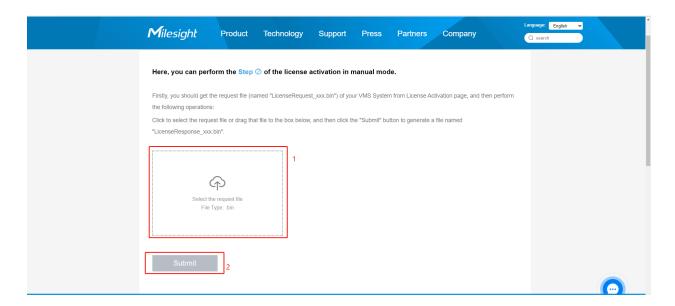
**Step2:** Input Activation Code and click Manual button, then a window pop up as below, you can activate the license manually according to the current reminded steps;

Activate New License Manually	×
Export Request File	
₹equest_f5e5-1776-dd7d-56ac.bin	Export
	—
Back	Next

**Step3:** Click Export button to export the LicenseRequest.bin file and save to your local storage path or flash memory, then click Next button. The window will change as below:

Activate New License Manually	×
Upload Request File Via Internet	
Access to linkage below via Internet, where you should upload the exported request file.	
https://www.milesight.com/activation	
Back Next	

**Step4:** Copy the address to another online server URL search box and the Milesight License Activation website will show as below. You can upload the previous exported LicenseRequest\_xxxx-xxxx-xxxx.bin here;



Step5: If the activation code is correct and valid, then the website will show as below. You

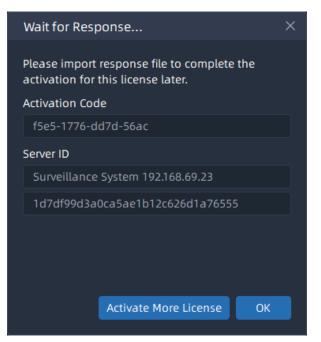
can click	Download	button to	download	d the respo	onse file;			
	Milesig	ght Product	Technology	Support Press	Partners 0	Company	Language: English 🗸 Q search	
	"LicenseRes		×	nd then click the "Submit" bu	itton to generate a file	named		ر 9
	Sut	bmit Activate s	uccessfully. Please download	I the Response file following th	e guidance as below.			f in D * TOP
	License is	s activated successfu	lly. Now you can perf	form the Step ③ of the	license activatio	n in manual mode:		
	_	e response file and take it	back as the feedback of yo	our VMS system.				Contact Us

**Step6:** Import the downloaded license response file from activation website, and click Activate button to activate the license;

Activate New License Manually	×
Get Response File	
Bring back the response file which will be generated after uploading request file successfully.	
Import Response File	
Back Import Later Activate	2

If you want to import the response file later, you can click

button.



After activating the license successfully, the license will be added to the License Activation list and displayed working status.

<b>M</b> ilesight	Live View	Playback	Smart Analytics E	-Map Eve	nt & Alarm Setting	s		🖂 🕹 ₡ 🖄	🛓 july 👻 🗕 🗗 🗧
Dashboard					License Activation				
🚟 Devices							Expiry Time		
		Camera Access			Free Trial	July's System Localhost	2022/08/24 12:00:22	Expired	
loT Sensor Management		Camera Access			1e8b-180c-a7df-e87f	July's System Localhost	2028/08/11 00:00:00	Working	O E License Details
Device Groups		Video Wall			5630-b543-1bc2-2fda	July's System Localhost	2026/08/01 00:00:00	Working	
Camera Configuration		Video Analytics			6d2c-5435-319f-38e0	July's System Localhost	2079/07/07 00:00:00	Working	
		ANPR			b290-b75d-9865-84e6	🍓 July's System Localhost	Never expire	Working	
🛃 System & Servers									
System Settings									
🗔 Client Settings									
									Overview Activate License
							Export S	erver ibExport License	Activate Licen:

There are some other operations as below:

- 1. Click button to import the response file to activate the license.
- 2. Click button to deactivate the license. After deactivation, this activation code can be reactivated or activated and used on other servers. The free trial license does not have this option.
- 3. Click button to delete the license. This option is only for the license whose status is not Working.
- 4. Click 🗟 button to check each license details.
- 5. Click Export License button to export the license list in the system.
- 6. Click Overview button to overview usage condition of activated licenses.

**Note:** Each License can only be registered to one server because license is bound with hardware information of computer on which server resides. If there is an exceptional occurrence of server, all licenses of the computer on which server resides will become invalid. And once the server starts to run, the licenses will automatically become valid and restore working status.

## **Application Management**

Here you can manage various applications of VMS, including ANPR, Video Analytics, Face Recognition and Third Party Connect - Access Control. Users can check the application status and enable or disable Third Party Connect manually.

<b>M</b> ilesight	Live View Playback	Smart Analytics E-Map Ev	ent & Alarm Settings		¤ ≵ ≜	🕍 💄 july 🖌 — 🗆 🗙
Dashboard			License Activation Application	on Management Storage		
🖶 Devices						Operation
Camera Management	ANPR	1.10.0.0-a5	2023/08/04 12:00:12	Running	Running	
loT Sensor Management	Video Analytics	1.10.0.0-a5	2023/08/04 12:00:12	Running	Running	
Device Groups		1.10.0.0-a5	2023/08/04 12:00:12	Running	Running	•
Camera Configuration	Face Recognition	1.10.0.0-a5	2023/08/04 12:00:12	Running	Running	
Camera Record Schedule	Third Party Connect - Access Contro	ol 1.10.0.0-a5	2023/08/04 12:00:12	Running	Running	
💑 System & Servers						
System Settings						
Server Settings						
Analytics Settings						
User Settings						1
Video Wall Settings						
Logs Search						
🗔 Client Settings						
Local Settings						
Multi-Monitor						
Ē						

#### Storage

The storage page allows you to manage the data retention time, ranging from 1 to 9999 days, for different components, including System Logs, Session Logs, Camera Logs, Event Logs, People Counting and IoT Sensor. It helps optimize storage usage and ensures that log data is available for a specific period, based on your needs and compliance requirements.

Milesight	Live View Playback	Smart Analytics E-Map	Event & Alarm Settings		0 ± # 1	≜ july ~ — □ ×
Dashboard			date License Activation	Storage		
🚟 Devices	Data Retention Time					
	System Logs					
		day(s) ੍ਹੰ				
	Session Logs					
		day(s) 🤶				
	Camera Logs					
🛃 System & Servers		day(s) ្				
System Settings	Event Logs 30	day(s) 💭				
	People Counting (1)					
	365	day(s) ੍ਹੰ				
	loT Sensor					
		day(s) 🥠				
🗔 Client Settings		Apply				

# 3.3.2 Server Settings

#### General

User can check and configure basic server settings. There are several parts, including Basic Information, Network Information, Storage Setting and Detach from system. Click "Server Settings->General" button, the page will show as below:

<b>M</b> ilesight		rt Analytics E-Map Event & Alarm Settings	🖾 素 ⊄ 🚵 🔹 july 🛩 — 🗗 🗙
Dashboard		General Failover Storage Management	
E Devices	July's System Localhost	Basic Information	
Camera Management		Server Name	
IoT Sensor Management		July's System	
Device Groups		Server Id	
Camera Configuration			
Camera Record Schedule		Network Information	
🛃 System & Servers		Server Address	
System Settings		Localhost U	
Server Settings		Server Port	
Analytics Settings			
User Settings		Storage Settings	1
Video Wall Settings		Storage Recycle	i i
Logs Search			
🖫 Client Settings		Storage Reserved Space Type	
Local Settings		Percentage v	
Multi-Monitor		Reserved Space of Each Disk	
Ē			

### Basic Information:

Here you can change name of each server inside VMS system. Select a server and change its name, then clicking Apply button to apply the new name

its name, the	n clicking	Apply button to apply the new name.	
Milesight	Live View Playback	Smart Analytics E-Map Event & Alarm Settings	🖾 🛓 📫 🏦 🌲 july 👻 — 🗗 🗙
Le Dashboard		General Failover Storage Management	
Bits     Devices       Camera Management     107 Sensor Management       107 Sensor Management     Device Groups       Camera Configuration     Camera Record Schedule       System & Servers     System Settings       System Settings     Server Settings       Analytics Settings     Use Settings       User Settings     Use Settings	Localhost	Basic information Server Name July's System Server Id IntrodrepadaaocaSae1b12c626d1a76555 Network Information Server Address Localhost Int Server Port B092 Storage Settings	
Video Wall Settings Logs Search Client Settings Local Settings Multi-Monitor		Storage Recycle Enable Storage Reserved Space Type Percentage Reserved Space of Each Disk 10 %	
Ξ	foraci 1	Apply	

#### Network Information:

When clicking button, a window will pop up to ping your server IP as below, and you can check your current server IP status here.



#### Storage Setting:

If enable Storage Recycle function, it will delete the previous storage files when the disk space reaches the setting threshold value, ensuring that disk storage can be continued.

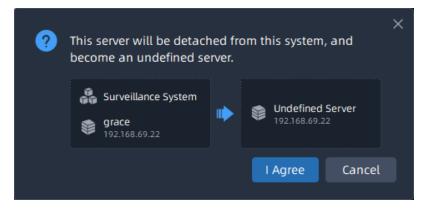
torage Settings		
Storage Recycle		
Enable	~	
Storage Reserved Space Type		
Percentage	~	
Reserved Space of Each Disk		
10	% 🗘	

**Note:** You can choose Percentage or Specific Value to set the threshold value of Storage Recycle.

#### • Detach from System:

You can also detach the added servers from system. The steps are as below:

**Step 1:** Click \_\_\_\_\_\_ button, then a pop-up window as below;



Step2: Choose Remove or Keep cameras of this server from system;

**Step3:** Wait for 5 seconds and click <sup>1Agree</sup> button to detach the selected server from this VMS system, then the server will become an undefined server;

#### Note:

- Only the Owner user has permission to perform the Detach Server operation and check detach result.
- When there is an exceptional occurrence of server to make it offline, if you directly click

button, then the deleted server don't really be detached from system.

Once server restores normal status, the server still can display in the interface and start working.

Live View	Playback !	Smart Analytics	E-Map	Logs	Settings				2 2 4	R	💄 grace 🗸	- 0	×
Q Search		General			lanagement								
grace 192.168.69		Basic Infor	mation										:
👞 test		Server Na	ime										
test 192.168.69													
		Server Id											
🕀 🛛 Add a Ser		bc015d	27d6fa02999a	abb6946e63c									
		Network In Server Ad 192.168 Server Po 8092 Detach from	ldress 8.69.15 rt										¢
		Detach	Server										

• After the last server is detached, all clients connected to the system will be forced to logout, and pop up a window to inform you "All servers in this system have been removed, please set up system or contact administrator".

#### Failover

Click "Server Settings->Failover" button, and then you can set the failover function in this interface. This function allows the current server to take over the cameras and IoT gateways from the offline server.

Cameras

Check <sup>Z</sup> Take over cameras from offline Servers to enable the Failover function. When other servers are offline, this server will take over cameras from the offline servers automatically.

If you checked <sup>Z</sup> Take over cameras according to customized priority</sup>, the server will take over cameras from the offline servers according to the set priority. The page will show as below:

<b>M</b> ilesight			Event & Alarm Setting:		C & # 🚈	💄 july 🗸 🚽 🗗 🗙
🖉 Dashboard		General Failover	Storage Management			
Devices	July's System Localhost	Cameras	loT Gateways			
		Max. number of came	from offline Servers ①	p to 68. 11 connected currently, 57 connections could be	allowed.	
🛃 System & Servers						
System Settings Server Settings Analytics Settings User Settings Video Wall Settings Logs Search						l
Client Settings						
Ē	Total:1					

For example, here I set the priority of the cameras in Server 192.168.69.22 as shown in the figure. When the server 192.168.69.22 is offline, other servers in the system will take over the cameras from this server in the order of High, Medium and Low, and the camera whose priority is set to Never will not be taken over.

**Note:** There must be unoccupied channels on the server whose Failover function is enabled. Only when the number of channels on the server is less than 128, the server whose Failover function is enabled can take over the channels of other servers.

IoT Gateways

#### Storage Management

Here you can see that every server's storage disk information includes local disk storage and network storage in this system. And you can enable storage disk which you are interested to store recordings and images of VMS system.

<b>M</b> ilesight			🖾 🏂 📫 🏦 🚨 july 👻 — 🗗 🗙
Dashboard		eneral Failover Storage Management	
🗃 Devices	July's System Localhost	orage Disk Information	
Camera Management IoT Sensor Management Device Groups Camera Configuration Camera Record Schedule		VMS         Others         ■ Free           System(C:)         ■           19.3068 free of 111.4068         ●	
🛃 System & Servers		84.62GB free of 200.00GB	
System Settings Server Settings		E Data(E) 36.8058 free of 366.0058 ●	
Analytics Settings User Settings Video Wall Settings Logs Search		SVN(F:) 1688.8806 free of 365.5108 ① Add External Storage	ł
🗔 Client Settings			
Local Settings Multi-Monitor		Current number of connection channels: 13.3:declarder recording camerae: 3 Number of enables davage disk.1 Hauntum recording camerae: 5 128° (Theoretically) Number of recording depends on sever hardbare and parameters of stream, etc.	
Ē	Total:1		

You can also add external storage according to following steps:

**Step1:** Click the "Add External Storage" button, a window will pop up as shown below:

SMB/CIFS window:

Add External Storage					
Protocol	SMB/CIFS		~		
URL	\\ <computer name=""></computer>	\ <folder></folder>			
User Name					
Password					
Password					
		Save	Cancel		

NFS window:

Add External Storage					
Protocol	NFS		~		
URL	127.0.0.1				
Directory	/path1/path2//pathN				
		Save	Cancel		

The meanings of the items on the page can be referred to the table below:

#### Table 29.

Items	Function Introduction				
Protocol	Choose protocol, including SMB/CIFS and NFS.				
URL	Fill correct URL format. For SMB/CIFS, e.g. "\\192.168.7.25\share". You can fill the URL according to your settings for NFS.				
User Name	This option is available for SMB/CIFS, the account name for network disk which you set.				
Password	You can set the password for network disk to guarantee the security if SMB/CIFS is selected.				
Path	Input the NFS file path, e.g. "/path1/path2//path N".				

**Step2:** Finish the setting and click "Save" button. Then the disk will be added into the server storage disk list as shown below:

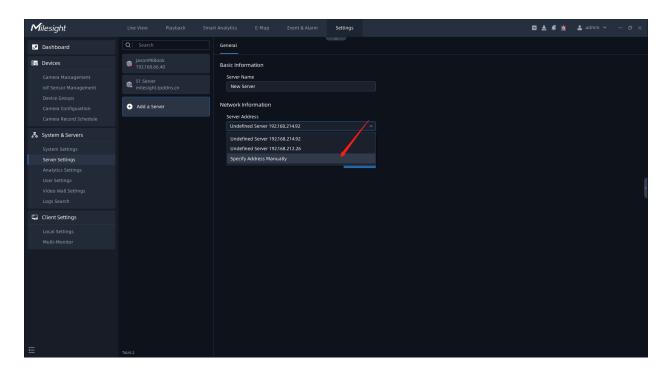
<b>M</b> ilesight	Live View Playback Sma	t Analytics E-Map Event & Alarm <b>Settings</b>	🖸 素 🦧 🚊 💄 admin 👻 — 🗗 🗙
Dashboard		General Failover Storage Management	
Bevices	Jeffrey's Server Localhost	Storage Disk Information	
Camera Management IoT Sensor Management Device Groups Camera Configuration	Add a Server	■ VMS ■ Others ■ Free (C:) 26.1666 free of 111.5768 ●	
Camera Record Schedule		(D-) 20.43GB free of 200.00GB	
System Settings Server Settings		(E:) 132.50GB free of 366.00GB ● )	
Analytics Settings User Settings Video Wall Settings		(F:) 132.82CB free of 365.51CB ●	
Logs Search		192188.66.252/volume2/nas1	
Local Settings Multi-Monitor			
		Current number of connection channels: 0; schedulder recording cameras: 0 Number of nandes discape gliois: 0 Maximum recording cameras: s 1:31°(TheoreticaBr) Number of recording depends on server hardware and parameters of stream, etc.	
Ē			

## **Note:**

- 1. Before adding the external storage, please make sure that the network disk is available within the network and properly configured to store the recorded files, etc.
- 2. The network disks can be deleted, but local storage disk can't be deleted from VMS system.

#### Add a Server

In this interface, users can not only directly add undefined servers in the same LAN as any server in the current system, but also add servers in different LANs by manually entering the server addresses.



**Note:** If the user chooses to manually enter the specified server address, make sure that the corresponding Bridging Server is selected for the service.

<b>M</b> ilesight		rt Analytics E-Map Event & Alarm <b>Settings</b>	🖾 🛓 📫 💄 admin 🗸 — 🕫 🗙
🖉 Dashboard		General	
B Devices	JasonMiBook 192.168.66.40	Basic Information	
Camera Management IoT Sensor Management Device Groups	51 Server milesight.tpddns.cn	Server Name New Server	
Camera Configuration Camera Record Schedule	+ Add a Server	Network Information Server Address Input the larget server address	
5ystem & Servers		Server Port	
System Settings Sever Settings Analytics Settings User Settings User Settings Logs Search Collent Settings Local Settings Multi-Monitor		8092 Bridging Sever S1 Server milesight.tpddns.cn JasonMalook 192.168.66.40 51 Server milesight.tpddns.cn	{
Į	Total: 2		

## 3.3.3 Analytics Settings

Before setting, you need to confirm the following items:

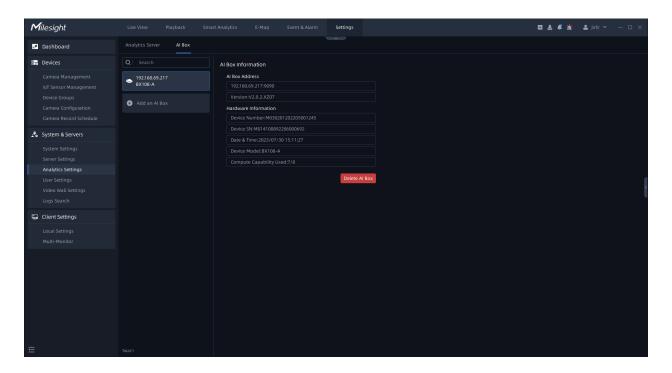
- There are Video Analytics and ANPR licenses in the system, and the license quantity is sufficient. For more information, please refer to <u>License Activation (page 154)</u>.
- The Video Analytics Server has been installed and running.
- The AI Box is up and running.

**Step1:** Click • Add a Server button then select a running Analytics Server or AI Box as shown below:

<b>M</b> ilesight	Live View Playback Sma	t Analytics E-Map Event & Alarm <b>Settings</b>	🖸 🛃 单 🏦 🔺 july 🗸 — 🗆 🗙
🖉 Dashboard	Analytics Server Al Box		
🗄 Devices		Server Information	
Camera Management IoT Sensor Management Camera Configuration Camera Record Schedule	192.168.69.199           NVIDIA GeForce GTX 1650           Image: Add a Server	Server Address           192.168.69.199           Version : 1.9.0.0-a4-15           Graphics Card Information	
💑 System & Servers		NVIDIA GeForce GTX 1650	
System Settings Server Settings		Video Memory : 4.0068(Used : 87%) Driver Version : 31.015.3141 Processing Speed : 3fps(Queue : 0Frames)	
Analytics Settings User Settings Video Wall Settings Logs Search		Delete Server Connected VMS System	-
Client Settings Local Settings Device Groups Multi-Monitor		System Name System Version Master Server AddK Survellance system 1.9.0.0-a4-t5 192.168.69.23	
Ē	Total:1		

**Step2:** Click during button, then the server will be successfully added. You can check the server information and how many systems are currently connected to this server and the hardware information of AI Box as shown below:

Milesight Live	View Playback Smart Analytic		🖸 🛓 🧳 📩 😩 july 🗸 — 🗗 🗙
Le Dashboard	Analytics Server AI Box		
🔐 Devices	Q Search	Server Information	
Camera Management IoT Sensor Management	192.168.69.193 NVIDIA GEForce RTX 3060	Server Address	
Device Groups	Add a Server	Version : 1.10.0.0	
Camera Configuration Camera Record Schedule		Graphics Card Information           NVIDIA GeForce RTX 3060	
🛃 System & Servers		Driver Version : 31.0.15.3713	
System Settings			
Server Settings Analytics Settings		Delete Server	
User Settings Video Wall Settings		Connected VMS System	
Logs Search		System Name System Version Master Server Addr	
🗔 Client Settings			
Local Settings Multi-Monitor			
Ē			



#### Note:

- 1. Currently only NVIDIA graphic card (CUDA compute capability 7.5 or higher is recommended) is supported for Video Analytics Server.
- 2. Currently only 64-bit Operating System is supported for Video Analytics Server.
- 3. For VMS-end Video Analytics and VMS-end People Counting:

- No license is required for cameras added via MSSP, Milesight DDNS and P2P protocols.
- The license is required for the cameras added via RTSP and ONVIF protocols.
- 4. For ANPR, a license is required for cameras added via all protocols.
- 5. For AI Box, no extra license is required.

## 3.3.4 User Settings

#### **User Management**

Users are managed in the User Management page.

Users can be created, modified and deleted from the User Management page in "Milesight VMS Client". Several properties of a user including User Name, Password, Confirm password, Role, Email Address and Remark can be changed here. Besides, users can set security questions to improve user security.

**B** Note: Password Verification is required if any changes are made.

<b>M</b> ilesight		art Analytics E-Map Event & Alarm <b>Settings</b>	🔤 🛓 🧳 🚵 🔺 july 👻 — 69 🗙
Dashboard	User Management Role Manage		
Bo Devices		Basic Information	
Camera Management IoT Sensor Management	💄 july	- User Name judy	
Device Groups Camera Configuration	🚔 Test 💿	Update Time: 2023-08-25 10-48-49 • Password • • • • • • • • • • • • • • •	
Camera Record Schedule	🕂 Add a User	Confirm Password	
System & Servers			
System Settings Server Settings		+ Role Administrator	
Analytics Settings		Email Address	
User Settings			
Video Wall Settings		Remark	
Logs Search			
🖫 Client Settings		S User never expire	
Local Settings		Change password periodically	
Multi-Monitor		Security Questions (Optional)	
		-Question 1	
		What's your father's name?	
		Answer 1	
		• Question 2	
		What's your favorite sport?	
		Answer 2	
Ē	Total:2	Apply	

Click the "User Settings->User management" button, the page will show as below:

<b>M</b> ilesight	Live View Playback Sma	nt Analytics E-Map Event & Alarm Settings	🖾 🛃 🦸 🛕 💄 july 🗸 — 🕫 🗙				
Dashboard	User Management Role Management						
Bro Devices		Basic Information					
Camera Management IoT Sensor Management	💄 july	- User Name july					
Device Groups Camera Configuration	🛃 Test 💿	Update Time: 2023-08-25 10:48:49 + Password					
Camera Record Schedule	🕀 Add a User	• Confirm Password					
🛃 System & Servers							
System Settings Server Settings Analytics Settings		• Role Administrator v Email Address					
User Settings							
Video Wall Settings Logs Search		Remark					
💭 Client Settings		Vuer never expire					
Local Settings Multi-Monitor		Change password periodically					
Multi-Monitor		Security Questions (Optional)					
		-Question 1					
		What's your father's name? v Answer 1					
		» Question 2					
		What's your favorite sport?					
		Answer 2					
Ē	Total: 2	Apply					

The meanings of the items on the page can be referred to the table below:

Т~			30	٦.
12	n	le	-51	

Items	Function Introduction
User never expire	User never expire by default, you can also set user expiry date for other role users. When a user date expires, you can't use the user to login to the VMS system.
Change password periodically	Enable to set a time period to change the password periodically for better security.  Change password periodically  days
Change password when first login	With this option enabled, it will ask to change the password when logging in for the first time.
Disconnect or Exit from VMS	With this option enable, the users without this privilege will not be able to close or log out of the VMS system during monitoring.

Each user can modify his or her own security questions, which greatly improves security.

Owner role page:

Basic Information	
*User Name	
grace	
Update Time: 2022-04-19 13:22:22	
* Password	
* Confirm Password	
*Role	
Owner ~	
Email Address	
grace@milesight.com	
Remark	
Security Questions (Optional)	
*Question 1	
What's your father's name?	
Answer 1	
*Question 2	
What's your favorite sport?	
Answer 2	
*Question 3	
What's your mother's name?	
Answer 3	

Other role page:

asic Information		
*User Name		
1gg		
Update Time: 2022-07-27 09:34:09		
*Password		
*****		
*Confirm Password		
*****		
*Role		
Viewer		~
Email Address		
Remark		
✓ User never expire		
Change password periodically		
Disconnect or Exit from VMS		
	Delete	Apply

## = Note:

- 1. The created users are enabled by default. The user can't choose to disable itself when a user logs in the VMS system client.
- 2. If user is disabled, then the VMS system client which the user login to will logout compulsively and pop up a reminder window "User has been disabled or deleted, please contact administrator".
- 3. There can only be one user who is Owner, which is the user added when the system is created, and the priority of role is highest.

## **Role Management**

Roles are managed in the Role Management page. The Administrator can't be deleted by default. Also, you can add or delete customized roles.

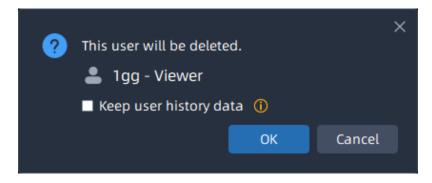
User Management	Role Management			
Q   Search		Basic Information	Permissions	
Administrator	E	asic Information		
🚑 Operator		*Role Name		
🚑 Viewer		Remark		
<b>e</b> 111				
💂 test	l	Iser List	User Name	Delete
🕂 Add a Role			No data	
				Apply

## **Basic Information Page**

You can create multiple users under a role, then all users under the role will be listed in the User List as shown below:

Basic Information	Permissions		
Basic Information			
*Role Name			
Administrator			
Remark			
Jser List			
ID	User Name	Delete	
ID 1	User Name vila	Delete	

**Note:** If you click the button to delete the user, a window will pop up as below to inform you "This user will be deleted". If you check the checkbox to keep user history data and even if click "OK" button to delete the user, then tag or locked recording video files added by user can still be kept.

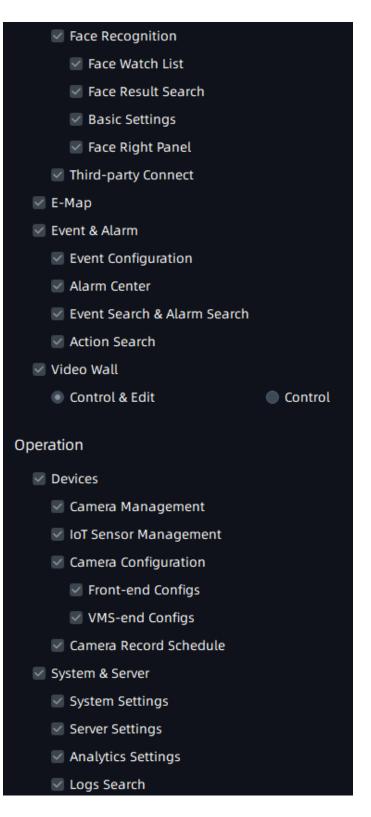


**Permissions Page** 

Different roles have different functions and operation permissions, resource access to Smart Analytics.

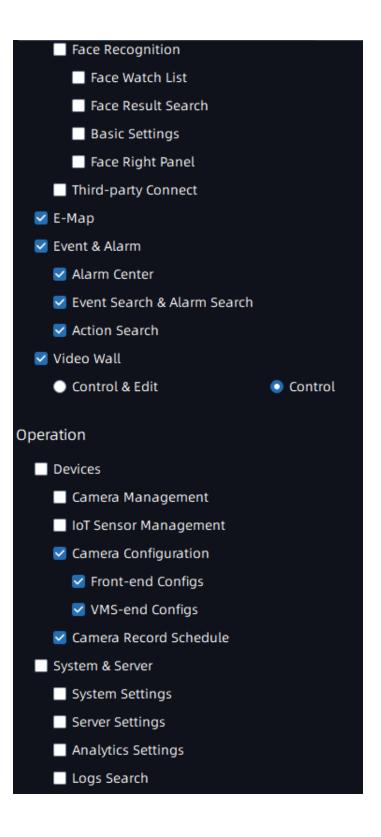
• Administrator: Own full access to function and operation permissions, resource access to Smart Analytics.

Function					
🗹 Live View					
🗹 Live View in Layout	Live View in Layout				
🗹 Live View Manual Record & S	Snapshot				
🗹 Playback					
🗹 View Archive(Playback, Retrie	eve, Logs)				
🗹 Export Archive(Playback, Retrieve)					
🗹 Manage Locked Files					
All Users	Individual				
🗹 Add & Manage Tags					
All Users	Individual				
Smart Analytics					
MANPR					
ANPR Watch List					
ANPR Result Search					
Traffic Report					
Picture Storage					
🗹 ANPR Right Panel					
People Counting					
People Counting Groups					
People Counting Report					
Retrieve					
Video Search					
🗹 IoT					
Sensor Control					
🗹 Sensor Data Report					



• Customized role: You can customize the role permissions.

Func	tion								
$\checkmark$	Live View								
	✓ Live View in Layout								
	🗹 Live View Manual Record & S	inapshot							
$\checkmark$	Playback								
	🗹 View Archive(Playback, Retrie	eve, Logs)							
	🗹 Export Archive(Playback, Ret	rieve)							
	🗹 Manage Locked Files								
	🔵 All Users	<ol> <li>Individual</li> </ol>							
	🗹 Add & Manage Tags								
	All Users	Individual							
	Smart Analytics								
	ANPR								
	ANPR Watch List								
	ANPR Result Search								
	Traffic Report								
	Picture Storage								
	ANPR Right Panel								
	People Counting								
	People Counting Groups								
	People Counting Report								
	Retrieve								
	Video Search								
	IoT								
	Sensor Control								
	Sensor Data Report								



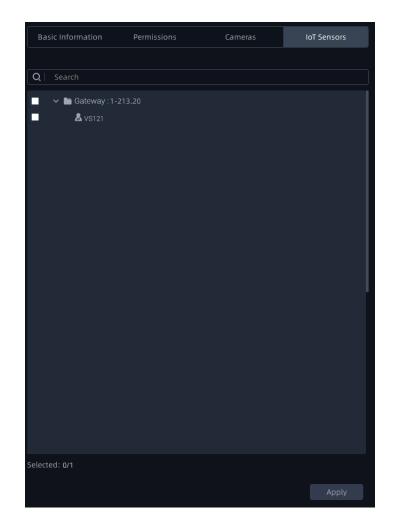
### **Cameras Page**

Here you can configure cameras for each role on individual channels, such as Stream Only , Stream & PTZ options, etc.

Basic Information Permissions	Cameras	loT Sensors			
Q Search					
Test					
PARKING 192.168.201.10		Stream & PTZ			
IF 192.168.201.10		Stream & PTZ			
💭 🔁 xixi 192.168.69.247					
GYM 192.168.201.10		Stream & PTZ			
□ <b>5</b> F 192.168.201.10		Stream & PTZ			
🔲 🗸 🖿 July					
📃 📔 test 192.168.69.222					
111 192.168.201.10	Stream & PTZ				
Rooftop 192.168.201.10	Stream & PTZ				
Front Desk 192.168.201.10	Stream & PTZ				
■ 🗸 🖿 Jeff					
LPR 246 192.168.69.246		Stream & PTZ			
Network Camera 192.168.201.10		Stream & PTZ			
LIBRIARY 192.168.201.10		Stream & PTZ			
🗖 🗸 🖿 Ungrouped					
🗖 🗸 🖿 Camera	Full	Control			
Test Camera 92.119.238.55	Stre	eam & Talk eam & PTZ			
Camera 192.168.69.44		eam & PTZ eam & PTZ			
P Retwork Camera 192.168.69.60		eam Only eam & PTZ			
Selected: 0/21	N/A N/A				

### IOT Sensor Page

Here you can configure IoT Sensors for the customized roles.



**Note:** After setting all the configuration, please remember to click "Apply" button. Otherwise, when you click other buttons outside the control panel, a window will pop up to inform you "Configuration is not saved, discard changes?"



### 3.3.5 Video Wall Settings

Here you can operate all the settings related to the video wall (page 212) in Live View.

Please refer to the following key features of the Video Wall function:

- Up to 100 Video Walls per System
- Custom Screen Combinations & Split
- PTZ and Digital Zooming Operations
- Remote Desktop Sharing
- Remote Control and Monitoring

On each Video Wall Screen, it supports:

- Display up to 64 IP Channels
- Display Primary/Secondary Streams
- Freely adjust the size and position of each channel, whether it be within or across monitors

• Video Wall Tour/Tour Plan, each displaying unrestricted channels in turn, at custom time intervals and custom layouts

<b>M</b> ilesight				Settings		🛛 🛓 🦨 🟦	💄 july 🌱 🚽 🗗 🗙
Dashboard							
E Devices	🕀 Create Vide						
Camera Management IoT Sensor Management Device Groups Camera Configuration Camera Record Schedule							
👼 System & Servers							
System Settings Server Settings Analytics Settings User Settings Video Wall Settings Logs Search					Please create a video wall first.		
💭 Client Settings					Create Video Wall		
Local Settings Multi-Monitor							
Ш.							

### General Setting

Before setting, you need to confirm the following items:

- There are license for Video Wall in the system, and the license quantity is sufficient.
- On the device connected to the monitor, the server of the Video Wall has been installed and running.

**Step1:** Click Create Video Wall button or the left panel, then the page will change as below:

<b>M</b> ilesight	Live View Playback Sm	art Analytics E-Map Event & Alarm Settings	🖾 🛓 📫 🏦 🚨 july 👻 — 🛷 🗙
🔊 Dashboard		General	
🚟 Devices	+ Create Video Wall	Video Wal 🖉	Control Video Start Wall Delete Wall Identify
Camera Management IoT Sensor Management Device Groups Camera Configuration Camera Record Schedule			d screens.
System Settings Server Settings Analytics Settings User Settings Video Wall Settings			8
Logs Search		Screen Setting (Please configure the screen and add to wall)	Q   Search O
Client Settings		Add Online Vid	
Ē			Apply

You can click next to the name to rename.

**Step2:** Click Add Online Vide... button, a window will be popped up as shown below:

Video Wall Server	×						
<b>Q</b> Search	0						
Choose from following list to add video wall servers which are online in current local network.							
Server IP	Status						
192.168.69.13	Not Added						
192.168.69.17	Not Added						
192.168.69.21	Not Added						
192.168.69.40	Not Added						
	Add Const						
	Add Cancel						

Step3: All online servers that have no screen existed in current video wall will be displayed

in the list. Click a server and click due to button. You can add multiple as needed. Then the added client will be shown on the page as below:

<b>M</b> ilesight				Settings		Ξ.	a 🗸 🚈	💄 admin 🗸	
🥵 Dashboard		General Displ							
📅 Devices	🗮 Video Wall 1	Video Wal 🖉				Control Video		Delete Wall	
Camera Management IoT Sensor Management Device Groups Camera Configuration Camera Record Schedule	Create Video Wall								
System & Servers System Settings Server Settings Analytics Settings User Settings									8
Video Wall Settings Logs Search		Screen Setting (Pl	ease configure the scree	n and add to wal					
Client Settings Local Settings Multi-Monitor			192.168.213.51 offline New Screen	Ad	y t to Wall Delete Seneer				
Ē									

You can click



button to delete the client.

Step4: Click on the monitor to generate a screen and you can rename it by clicking on the

name. Then click Add to Wall button to add the screen to the wall. You can add multiple screens as needed.

Click on the blank area of the screen, the selected box on each screen has small squares, you can click and drag them to divide the monitor and then add to the wall. Each monitor can be divided into up to four screens. The added screen will be shown on the page as below:

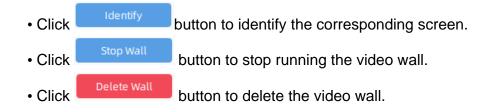
<b>M</b> ilesight				0 ±	🦸 🚵 🔹 admin 🗸 — 🗗 🗙
Dashboard		General Display			
🔚 Devices	🗮 Video Wall 1	Video Wal 🖉		Control Video Sta	art Wall Delete Wall Identify
Camera Management IOT Sensor Management Device Groups Camera Configuration Camera Record Schedule	Create Video Wall				
🛃 System & Servers					
System Settings Server Settings Analytics Settings User Settings Video Wall Settings					8
Logs Search		Screen Setting (Please configure the	creen and add to wall)		Q   Search
Client Settings		Video Wall Server 192.168.213.51 "offlin	Add to Wall Delete Server		
Local Settings Multi-Monitor		New Screen	New Screen		Apply

You can click the screen and drag to adjust the position.

**Step5:** Finish the settings and click button.

**Step6:** Click button to run the video wall. Then you can use video wall function in the Live View. For details, please refer to the <u>video wall (page 212)</u> in Live View.

There are some other operations as below:

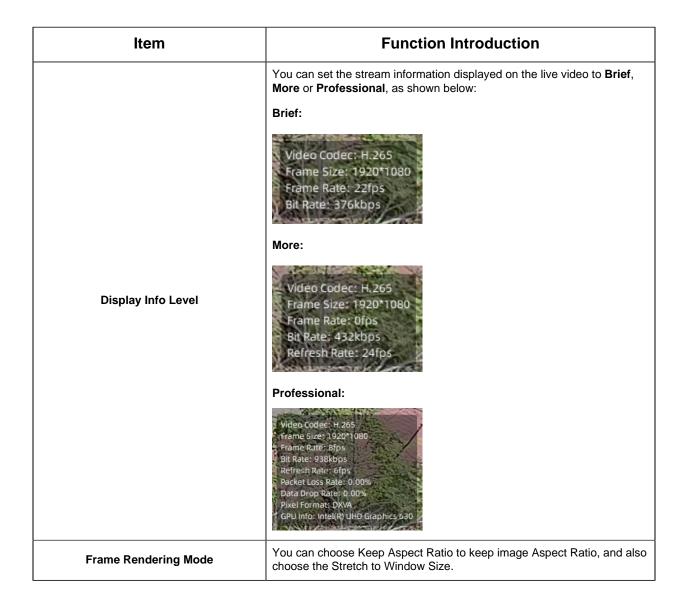


**Note:** For more detailed configuration, you can refer to <u>Milesight-Troubleshooting-VMS</u> <u>Enterprise Video Wall</u>.

### • Display

<b>M</b> ilesight	Live View Playback Sma	Analytics E-Map Event & Alarm Settings	🖾 🛃 🚅 🚵 🔺 admin 🗸 — 🕫 🗙
Dashboard		General Display	
📅 Devices	🗮 Video Wall 1	Video Window	
	Geate Video Wall	Display Info Level Level 1 - Brief ~	
		Frame Rendering Mode Keep Aspect Ratio	
🛃 System & Servers			
System Settings Server Settings Analytics Settings User Settings Video Wall Settings Logs Search			l
Client Settings Local Settings Multi-Monitor			
E			





# 3.4 Logs Search

There are three parts in the Logs window, including System Logs, Session Logs and Camera Logs. Here you can check, search and export the interested logs.;

• System Logs page: System Logs is a log that records all operations within the vms system, such as server status and video files, etc.

<b>M</b> ilesight	Live View Playback	Smart Analytics	E-Map Event & Alarm	Settings		🛓 🧳 🚵 admin 🗸 — 🔿 🗙
Dashboard	System Logs Session Logs					
🔚 Devices	Start Time 2023/08/24 00:00:00	System Logs				Q Search
Camera Management IoT Sensor Management Device Groups	End Time 2023/08/30 23:59:59		Date/Time	Type No Data.Please try different con	Target ditions and search again.	Details
Camera Configuration Camera Record Schedule	☑ All ☑ ANR ☑ Time Sync.					
System & Servers System Settings Server Settings Analytics Settings	Configuration Backup Recording Recycle Picture Recycle Picture Recycle Server Changes Camera Changes Camera Changes					
User Settings Video Wall Settings Logs Search						
Client Settings Local Settings Multi-Monitor						
Ē	Reset Search	Selected: 0/0				Export

• Session Logs page: The Session Logs is to record logs about all operations of each user from login to logout.

<b>M</b> ilesight	Live View Playback	Smart Analytics	E-Map Event &	Alarm Settings			0 2 4	🕻 🚵 💄 admin 🗸 — 🗇
🖉 Dashboard	System Logs Session Logs							
📅 Devices	Start Time 2023/08/24 00:00:00	Session List	Selected: 18/18					
	End Time 2023/08/30 23:59:59		Session Start 2023/08/30 13:40:18 2023/08/30 13:32:21	Session End 2023/08/30 13:44:14 2023/08/30 13:36:51	Duration 3m 56s 4m 30s	Client IP 110.87.98.58 110.87.98.58	User & admin & admin	
Camera Configuration Camera Record Schedule	<ul> <li>All</li> <li>Camera Modify</li> <li>Archival Operation</li> <li>Client Login/Logout</li> </ul>	N N N	2023/08/30 10:43:18 2023/08/29 19:53:12 2023/08/29 19:52:17	2023/08/30 13:44:14 2023/08/30 09:04:05 2023/08/29 19:52:48	3h 0m 13h 10m 31s 4h 25m	192.168.213.51 192.168.213.51 192.168.213.51	& admin & admin & admin	
System & Servers System Settings Server Settings Analytics Settings	<ul> <li>✓ Server Modify</li> <li>✓ User Modify</li> <li>✓ System Modify</li> <li>✓ Event &amp; Alarm Modify</li> </ul>	8 8 8	2023/08/29 15:26:05 2023/08/29 09:20:33 2023/08/28 19:44:22 2023/08/28 11:11:04	2023/08/29 19:52:01 2023/08/29 09:29:32 2023/08/29 13:17:18 2023/08/28 11:11:37	4n 25m 8m 59s 17h 32m 33s	192.168.213.51 110.87.98.58 192.168.213.51 110.87.98.58	& admin ♣ admin ♣ admin ♣ admin	
		Details List	Selected: 0/53 Date/Time 2023/08/30 13:40:18 2023/08/30 13:36:51	Client IP 110.87.98.58 110.87.98.58	User & admin & admin		Activity Client Login/Logout Client Login/Logout	Details Login Successfully Logout
Client Settings			2023/08/30 13:32:21 2023/08/30 10:43:18 2023/08/29 19:53:12	110.87.98.58 192.168.213.51 192.168.213.51	🌲 admin 🌲 admin 🌲 admin		Client Login/Logout Client Login/Logout Client Login/Logout	Login Successfully Login Successfully Login Successfully
			2023/08/29 19:52:48 2023/08/29 19:52:17 2023/08/29 19:52:01	192.168.213.51 192.168.213.51 192.168.213.51	♣ admin ♣ admin ♣ admin		Client Login/Logout Client Login/Logout Client Login/Logout	Logout Login Successfully Logout
			2023/08/29 17:27:01 2023/08/29 15:26:05 2023/08/29 09:29:32	192.168.213.51 192.168.213.51 110.87.98.58	& admin & admin & admin		System Modify Client Login/Logout Client Login/Logout	Camera Management Login Successfully Timeout Logout
			2023/08/29 09:20:33 2023/08/28 19:44:22 2023/08/28 13:29:23 2023/08/28 13:23:22	110.87,98,58 192.168.213.51 192.168.213.51 192.168.213.51	♣ admin ♣ admin ♣ admin ♣ admin		Client Login/Logout Client Login/Logout Client Login/Logout System Modify	Login Successfully Login Successfully Logout (Picture Storage) Storage Settings.
	Reset Search		2023/05/28 13:23:22	192.168.213.51	admin		System Modify	[Picture Storage] Storage Settings.

**Camera Logs page:** The Camera Logs is to record logs about all operations of each camera.

<b>M</b> ilesight	Live View Playback Sn	mart Analytics	E-Map	Event & Alarm	Settings			🖾 🕹 🚅 🖄	💄 admin 👻 🚽 🗗 🗙
Dashboard		Camera Log	gs						
🗃 Devices	Start Time 2023/08/24 00:00:00		ist Selected: 1/1						Q Search
	End Time 2023/08/30 23:59:59		Camera 192.168.		Address 192.168.213.96		Location 51 Server(192.168.213.51)		Count 3
	<ul> <li>✓ All</li> <li>✓ Camera Modify</li> <li>✓ Archival Operation</li> </ul>								
🛃 System & Servers									
		Details Lis	St Selected: 0/3						
			Date/Time	Client IP		Camera Name	Address	Activity	Details
Logs Search			2023/08/28 10:44:22	192.168.213.		192.168.213.96	192.168.213.96	Camera Modify	Device Configuration 🖂
			2023/08/28 10:35:23	192.168.213.		192.168.213.96	192.168.213.96	Camera Modify	Device Configuration 🔄
Client Settings Local Settings Multi-Monitor			2023/08/28 10:35:17	192.168.213 <i>.</i>	o) & admin	192.168.213.96	192.168.213.96	Camera Modify	Device Configuration 🕅
	Reset								Export

You can set filter condition as you need.

The meanings of the items can be referred to the table below:

### Table 32.

ltem	Function Introduction
2022/08/03 00:00:00	Start filter time.
2022/08/09 23:59:59	End filter time.

ltem	Function Introduction
<ul> <li>All</li> <li>ANR</li> <li>Time Sync.</li> <li>Configuration Backup</li> <li>Recording Recycle</li> <li>Picture Recycle</li> <li>Logs Recycle</li> <li>Logs Recycle</li> <li>Server Changes</li> <li>Camera Changes</li> </ul> System Logs	<ul> <li>Here you can filter out the interested logs by checking the option box.</li> <li>All: Check the "All" checkbox to search all logs.</li> <li>ANR: Check the condition checkbox to search all logs about starting the ANR function.</li> <li>Time Sync.: Check the condition checkbox to search all logs about synchronizing time to the front-end device.</li> <li>Configuration Backup: Check the condition checkbox to search all logs about backup system configuration files.</li> <li>Recording Recycle: Check the condition checkbox to search all logs about recording recycling.</li> <li>Picture Recycle: Check the condition checkbox to search all operation logs about pictures recycling.</li> <li>Logs Recycle: Check the condition checkbox to search all operation logs about logs recycling.</li> <li>Server Changes: Check the condition checkbox to search all operation logs about the server being online or offline.</li> <li>Camera Changes: Check the condition checkbox to search all operation logs about the auto reset of VMS-end people counting data.</li> </ul>

Item	Function Introduction
<ul> <li>✓ All</li> <li>✓ Camera Modify</li> <li>✓ Export Files</li> <li>✓ Client Login/LogOut</li> <li>✓ Server Modify</li> <li>✓ User Modify</li> <li>✓ System Modify</li> <li>✓ System Modify</li> <li>✓ Event &amp; Alarm Modify</li> </ul> Session Logs	<ul> <li>Here you can filter out the interested logs by checking the option box.</li> <li>All: Check the "All" checkbox to search all operation logs.</li> <li>Instant View: Check the condition checkbox to search all operation logs about starting and ending live view of each channel.</li> <li>Archive Playback: Check the condition checkbox to search all operation logs about start and end each channel playback in the Playback interface.</li> <li>Client Login/Logout: Check the condition checkbox to search all operation logs about start and end each channel playback in the Playback interface.</li> <li>Client Login/Logout: Check the condition checkbox to search all operation logs about users' Login or Logout to VMS client system.</li> <li>Server Modify: Check the condition checkbox to search all operation logs about server parameters modification of <u>Server Settings (page 162)</u> and Storage Disk Management modification of <u>Login Wizard (page 29)</u>.</li> <li>User Modify: Check the condition checkbox to search all operation logs about user/ role modify of <u>User Settings (page 173)</u> and Security questions modification of <u>Login</u> Wizard (page 23).</li> <li>System Modify: Check the condition checkbox to search all operation logs about system modification such as device add or delete, Email settings and schedule settings, etc.</li> <li>Event&amp;Alarm Modify: Check the condition checkbox to search all operation logs about adding, deleting or modifying event rules of <u>Event Rule Settings (page 323)</u>.</li> <li>Note: There are five options can't be operated in the Camera Logs page, including Client Login/Logout, Server Modify, System Modify, Event Rules Modify and Event Rules Modify.</li> </ul>
<ul> <li>✓ All</li> <li>✓ Camera Modify</li> <li>✓ Export Files</li> <li>Camera Logs</li> <li>Refresh</li> </ul>	<ul> <li>Here you can filter out the interested logs by checking the option box.</li> <li>All: Check the "All" checkbox to search all operation logs.</li> <li>Camera Modify: Check the condition checkbox to search all operation logs about Device Configuration and Device Event.</li> <li>Export Files: Check the condition checkbox to search all operation logs about successful export of the channel files in the Playback interface.</li> <li>Click the button to refresh the event logs list.</li> </ul>
Search	Input content to search the matched logs.

ltem	Function Introduction
	Export the log file. If the selected log is exported successfully, a window will pop up to inform you as shown below:
Export	Export Logs successfully!

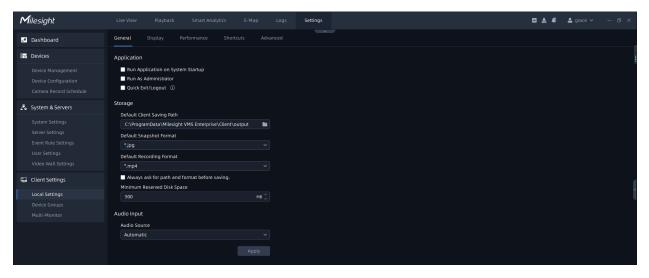
# 3.5 Client Settings

### 3.5.1 Local Settings

This part is mainly used to customize client settings. Here you can set General setting including storage path and format, Display and Notification.

### General

Here you can set some general parameters about client.



The meanings of the items on the page can be referred to the table below:

Table 33.

ltem	Function Introduction
Application	You can customize some settings about system startup and exit here, including Run Application on System Startup, Run As Administrator, Quick Exit/Logout. <b>Note:</b> There will be no prompt when exiting/logging out the application if checked.
Storage	<ul> <li>Default Client Saving Path: You can click the button to choose a path to store recordings and snapshots from VMS.</li> <li>Default Snapshot Format: Choose a kind of image format to save snapshots, including jpg, bmp, png, gif and tiff. The default image format is jpg.</li> <li>Default Recording Format: Choose a kind of recording format to save recorded videos, including mp4, avi, mkv and asf. The default recording format is mp4.</li> <li>Note: If you check the checkbox to choose "Always ask for path and format before saving", then the previous configuration for storage path and recording/snapshot format are invalid.</li> <li>Minimum Reserved Disk Space: Set the minimum reserved space for the disk of the VMS client side. When the remaining space of the disk reaches the set value, it will automatically stop storing.</li> </ul>
Audio Source	This audio source function allows you to hear the sound from cameras or transmit your sound to the camera side. You can choose a kind of audio source, including Automatic and Microphone. Automatic means audio source varies with system audio interface, and the interface used by the system will take effect.

### Display

You can set VMS client display including system language, VMS client window display and image window display, etc.

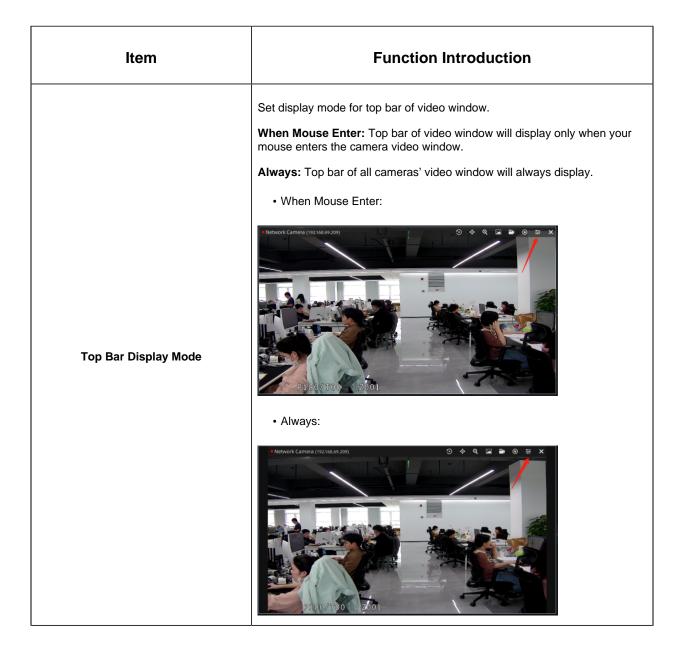
<b>M</b> ilesight		🛛 🛓 🚅 🚵 🔹 admin 🗸 — 🗗 🗙
Dashboard	General Display Performance Shortcuts Advanced	
Devices	Program	
Camera Management	Language	
IoT Sensor Management	English ~	
Device Groups	Program Maximization	
Camera Configuration	Keep Showing the Windows Taskbar v	
Camera Record Schedule	Program Start Mode	
🛃 System & Servers	Maximized ~	
System & Servers	Start Content of Live View	
System Settings	None	
Server Settings	Right Click Menu	
Analytics Settings		
User Settings	Display Event Overlay in Menu Disable V	
Video Wall Settings		
Logs Search	Event Type in Menu	
🗔 Client Settings		
	Device Tree	
Local Settings Multi-Monitor	Show Mouse-over Preview	
Multi-Monitor	Enable V	
	Show Device Address	
	Enable	
	List Order Rule	
	By Camera Address - Ascend $\sim$	
	Video Window	
	Top Bar Display Mode	
	Not Muse Enter	
	Display Info Level	
Ē	Apply	

The meanings of the items on the page can be referred to the table below:

Item	Function Introduction
Language	Select system language, the default language is English.
Program Maximization	You can choose VMS system window display mode, including Keep Showing the Windows Taskbar and Full Screen without Windows Taskbar.
Program Start Mode	<ul> <li>Choose a display mode of VMS window when starting the VMS client, including Maximized, Window at Center and Last.</li> <li>Maximized: VMS window will display according to Maximization you set when starting the VMS.</li> <li>Window at Center: VMS window will display at center of your screen when starting the VMS.</li> <li>Last: VMS window will display according to the previous logout status when starting the VMS.</li> </ul>

ltem	Function Introduction
Start Content of Live View	If the "Ask for Recovering" option is selected, when the VMS Client program is started, it will ask to restore the last closed preview window.
Display Event Overlay in Menu	Enable to display Event Overlay on Live View interface when right click the menu.

Item	Function Introduction	
Event Type in Menu	Check the checkbox to display the corresponding event type on Live View interface when right click the menu. The event type includes Front-end Events and Smart Analytics Events, you can also check "Any Event" option to display all event types with one click. Event Type in Menu All All Front-end Events Motion Detection VCA - Region Entrance VCA - Region Entrance VCA - Advanced Motion Detection VCA - Line Crossing VCA - Loitering People Counting - Regional Smart Analytics Events Analytics - Region Entrance Analytics - Region Entrance	
Show Mouse-Over Preview	Select the module to be displayed on Mouse-Over Preview.	
Show Device Address	Select the module to display the device address in Device Tree, including IP address, domain, MAC address, etc.	
List Order Rule	Select the module to sort the devices in Device Tree. Users can sort the devices by camera address or camera name to meet different requirements. List Order Rule By Camera Address - Ascend By Camera Address - Descend By Camera Name - Descend	



ltem	Function Introduction
Display Info Level	
Frame Rendering Mode	You can choose Keep Aspect Ratio to keep image Aspect Ratio, and also choose the Stretch to Window Size.

### Performance

<b>M</b> ilesight	Live View Playback Smart Analytics E-Map Event & Alarm Settings	🖾 🛓 🧳 🏦 🌲 july 🗸 — 🕫 🗙
Dashboard	General Display Performance Shortcuts Advanced	
Devices	Video Viewing	
Camera Management IoT Sensor Management Device Groups Camera Configuration Camera Configuration Camera Record Schedule System Settings System Settings Analytics Settings Urdeo Wall Settings	Play Mode         Least Delay         Acto Pause Video ()         Disable         Decoding with Hardware         Enable         Decoding with Multiple Graphic Cards         Disable         Apply	
Logs Search		
Multi-Monitor		

The meanings of the items on the page can be referred to the table below:

#### Table 35.

Item	Function Introduction
Play Mode	Users can choose <b>Least Delay</b> or <b>Best Fluency</b> according to different network environments to get the best user experience.
Auto Pause Video	The VMS program will automatically pause video decoding to reduce computer load when it exceeds the time threshold without any operation.
Decoding with Hardware/ Decoding with Multiple Graphic Cards	Support Decoding with Hardware and Decoding with Multiple Graphic Cards to provide various options.

### Shortcuts

Here you can view and set all shortcut keys of the system.

Image: ControlOption ControlOption ControlImage: ControlMarket ControlMarket ControlMarket ControlMarket ControlStores StatingsMarket ControlMarket ControlMarket ControlMarket ControlStores ControlMarket ControlMarket ControlMarket ControlMarket ControlStores ControlMarket ControlMarket ControlMarket ControlMarket ControlStores ControlMarket ControlMarket ControlMarket Control <th><b>M</b>ilesight</th> <th></th> <th></th> <th>Event &amp; Alarm Settings</th> <th></th> <th></th> <th>🖸 🕹 🧍 🖄</th> <th>💄 july 🖌 🚽 🗗 🗙</th>	<b>M</b> ilesight			Event & Alarm Settings			🖸 🕹 🧍 🖄	💄 july 🖌 🚽 🗗 🗙
Carriera Management Ind School Management Deke Groups     Pay Selected Carrena()/Layout/Tour     Feet     Instant Majabak     Orbit     Pay Selected Carrena()/Layout/Tour     Pay Selected Carrena ()/Layout/Tour	🔊 Dashboard	General Display Performance S	Shortcuts					
Audo Nute     Grie     Audo Nute     Grie     Main       beids Grie     Grie     Grie     Spit Payres Sterict ( Lamer 3(c))     Grie     Spit Payres Sterict ( Lamer 3(c))     Grie     Spit Payres Sterict ( Lamer 3(c))     Spit Payres Sterict ( Lamer 3(c)	E Devices	Device List Control		Live View/Playback Toolbar		Program Function		
stop Anagement Derke Grupps     stop Anagement Derke Stender Derke Stender Stender     stop Anagement Derke Stender Derke Stender Derke Stender Stender     stop Anagement Derke Stender Derke Stender Stender     stop Anagement Derke Stender Derke Stender		Play Selected Camera(s)/Layout/Tour	Enter	Instant Playback		Hide/Show Left Sidebar	Shift+←	
Decke Groups Camesa Configuration Camesa Configuration Camesa Configuration Camesa Configuration Camesa Configuration Camesa Configuration Severes Settings     Index structures of severes (Camera in section Officit Inayacci Severes Camera in section Officit Severe Settings     Index structures Camera in section Officit Inayacci Severes Camera in section Officit Inayacci Severes Camera in section Officit Severe Settings     Index structures Camera in section Officit Inayacci Severes Camera in section Officit Severe Settings     Index structures Camera in section Officit Inayacci Severes Camera in section Officit Severe Settings     Index structures Camera in section Officit Inayacci Severes Camera in section Officit Severe Settings     Index structures Camera in section Officit Severe Settings     Index structures Camera in section Officit Inayacci Severes Camera in section Officit Severe Settings     Index structures Camer		Stop Playing Selected Camera(s)		Audio/Mute		Hide/Show Right Sidebar	Shift+→	
Camera Googleanting     [Piayback]Happack]Selected Camera in Sections.     CHI     Record.     Record.<		[Live View]Start/Stop Tour	Ctrl+T	Talk		Hide/Show Top Sidebar	Shift+↑	
Camera Configuration     [Pizyback]steleted Camera     Cubic     Cubic     Fizikape     Fizi		Rename Selected Camera/Server/Layout/Tour	Ctrl+R	Digital Zoom		Hide/Show Bottom Sidebar	Shift+↓	
Cannea Record Schedule     Espand Al Nodes     Carrier     Fishepe     Fishepe <td></td> <td>[Playback]Playback Selected Camera in Sections</td> <td></td> <td>Snapshot</td> <td></td> <td>Live View Page</td> <td></td> <td></td>		[Playback]Playback Selected Camera in Sections		Snapshot		Live View Page		
System & Servers     Servers     System & Servers     Servers <td></td> <td>[Playback]Selected Camera for Video Synopsis</td> <td> Ctrl+V</td> <td>Record</td> <td></td> <td>Playback Page</td> <td></td> <td></td>		[Playback]Selected Camera for Video Synopsis	Ctrl+V	Record		Playback Page		
Image: System & Servers       Save View to Selected Layout. Tou	Camera Record Schedule	Expand All Nodes	Ctrl+E	Fisheye		Smart Analytics Page		
System Settings     Save View to Salected Layout, durbs     Close     Lot     Save (Log)     Save View to Salected Layout, durbs     Save (Log)	• • · · · ·	Collapse All Nodes	Ctrl+C	Image Settings		E-Map Page		
Synthe Settings     Live View/Playback Control     Playback Control     Result       Same Settings     Soutch Stream Type of Selected Camera     Analytics Settings     Space     Notifications     Playback Control       User Settings     Soutch Stream Type of Selected Camera     CrifAkits     Speed Down     Ast     Playback Control     Playback Control       Video Wall Settings     Soutch Stream Type of Selected Camera     CrifAkits     Speed Down     Ast     Playback Control     Playback Control       Video Wall Settings     Soutch Stream Type of Selected Camera     CrifAkits     Speed Down     Ast     CrifAkits     Freevious Frame     Ast       Logs Search     Sotton Left     CrifAkits     CrifAkits     CrifAkits     CrifAkits     CrifAkits     Ast       Multi-Montor     Remove Selected Playing Camerad     CrifAkits     Archive Management.     Ast       Multi-Montor     Remove Selected Playing Camerad     CrifAkits     Archive Management.     Ast       Soutch Stream Type of Al Cameras     CrifAkits     Archive Management.     Ast       Soutch Stream Type of Al Cameras     CrifAkits     Archive Management.     Ast       Nuti-Montor     See Conding Ast     CrifAkits     Archive Management.     Ast       Nuti-Montor     See Conding Ast     CrifAkits     Archive Management.<	System & Servers	Save View to Selected Layout	Ctrl+S	Close	Del	Event & Alarm Page		
Server Settings     Live View/Playback Control     Playback Control     Pice       Just Settings     Switch Stream Type of Selected Camera     GridAbel     Help     Pil       Video Wall Settings     Samon     GridAbel     Spred Doon     Ait     E-Map       Logs Seator     Settings     Settings     GridAbel     Freevois Trane     Ait     Copen a Map     Free       Soluti Settings     Settings Info of Selected Camera     GridAbel     GridAbel     Copen a Map     Free       Soluti Settings     Settings Info of Selected Camera     GridAbel     Copen a Map     Free       Soluti Settings     GridAbel     GridAbel     Copen a Map     Free       Soluti Settings     GridAbel     GridAbel     Copen a Map     Free       Soluti Settings     GridAbel     Copen a Map     Free     Copen a Map     Free       Soluti Settings     GridAbel     CorinAbel     Copen a Map     Free     Copen a Map     Free       Multi-Montor     Remove Selected Playing Camerata     GridAbel     Coorin Timeline     Atel     Sove Modification       Sove Order Weew Salected Playing Camerata     GridAbel     Sove Modification     Sove Modification     Sove Modification       Sove Order Weew Salected Playing Camerata     GridAbel     Sove Modification     Ate		Delete Selected Layout/Tour	Ctrl+D			Settings Page		
Analytics Settings     Soutics Transmit Type of Selected Camera     Area     Notic Settings				Playback Control		Client Files Management		
User Setting3       Auto		Live View/Playback Control		Pause/Play	Space	Notifications		
Ukes Settings     Primary		Switch Stream Type of Selected Camera		Rewind	Alt+R	Help		
Video Wall Settings Logis Search     Primary     OriHaits     Speed Down     Airsit     E-Map       Collent Settings     Sectings     Cristeline     Airsit     Oreate New Map     Airsit       Local Settings     Cristeline     Cristeline     Airsit     Craste New Map     Airsit       Multi-Monitor     Battom Right     Cristeline     Airsit     Save Modification     Cristeline       Nutli-Monitor     Remove Stetced Playing Comera(s)     Dei     Airsit     Cristeline     Airsit       Sove Grindrage     Cristeline     Cristeline     Airsit     Cristeline     Airsit       Multi-Monitor     Remove Stetced Playing Comera(s)     Dei     Airsit     Airsit     Save Modification       Sove Grindrage     Cristeline     Airsit     Airsit     Airsit     Save Modification       Sove Grindrage     Cristeline     Airsit     Airsit     Save Modification       Sove Grindrage     Cristeline     Airsit     Airsit     Save Modification       Sove Grindrage     Cristeline     Airsit     Airsit     Airsit       Sove Grindrage     Cristeline     Airsit     Airsit     Airsit       Sove Grindrage     Cristeline     Airsit     Airsit     Airsit       Sove Grindrage     Airsit     Criteline	User Settings	Auto	Ctrl+Alt+0	Speed Up	Alt+↑			
Logs Startch       Set Oldary		Primary	Ctrl+Alt+1	Speed Down	Alt+↓	E-Map		
Lical Settings     Nide     Crinkerin     At-i     Least Net Nage     At-i       Local Settings     Crinkerin     Crinkerin     At-i     Save Modification     Crinkerin       Multi-Monitor     Bottom Right     Crinkerin     Crinkerin     At-i     Save Modification     Crinkerin       Nulti-Monitor     Bottom Right     Crinkerin     Crinkerin     At-i     Crinkerin     Crinkerin       Nulti-Monitor     Bottom Right     Crinkerin     Crinkerin     At-i     Crinkerin     Crinkerin       Save Current View as Layout     Crinkerin     At-i     At-i     At-i     Save Modification       Save Current View as Layout     Crinkerin     At-i     At-i     Save Modification     Crinkerin       Auto-     Crinkerin     At-i     At-i     At-i     Save Modification     Crinkerin       Save Current View as Layout     Crinkerin     At-i     At-i     At-i     Save Modification       Auto-     Crinkerin     At-i     At-i     At-i     At-i     At-i       Save Condary     At-i     At-i     At-i     At-i     At-i       Save Condary     At-i     At-i     At-i     At-i       Satom Right     Crinkerin     At-i     At-i     At-i       Satom Le	Video Wall Settings	Secondary	Ctrl+Alt+2	Previous Frame	Alt+←	Open a Map	Enter	
Client Settings     Battom Left.     CristAbit.     CristAbit.     Communities     Asta     Enterstant clin houd.     CristAbit.       Local Settings     Battom Right.     CristAbit.     Cr		Set Display Info of Selected Camera		Next Frame	Alt+→	Create New Map	Alt+N	
Bottom Right     Crifikles     Arec       Multi-Monitor     Crifikles     Crifikles     Arec       Multi-Monitor     Remove Silected Playing Camerats     Crifikles     Arec       Seve Grane     Crifikles     Arec     Sine Modification       Torro on/Mite All Camerats     Crifikles     Arec     Sine Modification       Seve Grane     Crifikles     Arec     Arec       Seve Grane     Crifikles     Since Nodification     Arec       Seve Grane     Arec     Since Nodification     Arec       Seve Grane     Arec     Since Nodification     Arec       Seve Grane     Arec     Since Nodification     Arec			Ctrl+Alt+H	Zoom In Timeline	Alt++	Enter/Exit Edit Mode	Alt+E	
Local Settings     Customice     Customice     Customice     Customice     Ait       Multi-Monitor     Remove Stetcted Playing Camera()     Del     Add Tap     Ait       Remove All Paying Camera()     Del     Add Tap     Ait       Stream Type of All Cameras     CustoAlt-C     CustoAlt-C     Ait       Stream Type of All Cameras     CustoAlt-C     CustoAlt-C     Ait       Auto     Alt-Shift-1     Disconnect     Ait-1       Dispay info for All Cameras     Switch User     Ait-1       Hide     Alt-Shift-1     Disconnect     Ait-1       About     Alt-Shift-1     Disconnect     Ait-1       About     About     Abt-1     About	Client Settings	Bottom Left	Ctrl+Alt+L	Zoom Out Timeline	Alt+-	Save Modification	Ctrl+S	
Cost Numps     Cost Numps     CerkAlkE     Lock File     Arti       Multi-Monitor     Remove Selected Playing Camera()     Del     Add Tip     Arti       Remove All Playing Camera()     Del     Arti     Artive Management     AixM       Seve Carrea     CirkAlka     CirkAlka     Astrineuro All Playing Camera()     CirkAlka       Seve Carrea     CirkAlka     CirkAlka     Astrineuro All Playing Camera()     CirkAlka       Seve Carrea     CirkAlka     Synchronous Playback     AixS       Stream Type for Al Cameras     CirkAlka     Synchronous Playback     AixS       Primary     AlxShiftsi     Disconnect     AixSig       Display info for Al Cameras     Online Manaal     AixSig       Nide     AlzShiftsi     Disconnect     AixSig       Secondary     AlxShiftsi     Disconnect     AixSig       Disconnect     AixShiftsi     Disconnect     AixSig       Multi-Monitor     AlxShiftsi     Disconnect     AixSig       Secondary     AlxShiftsi     Disconnect     AixSig       Bottom Left     AlxShiftsi     About     AixA       About     AixA     AixA		Bottom Right	Ctrl+Alt+R	Calendar	Alt+C			
Remove All Playing Camerat     Crif-Alit A     Auto 100     Auto 100       Save Current View as Layout.     Crif-Alit A     Auto 100     Auto 100       Save Current View as Layout.     Crif-S     Synchronous Playback.     Alit S       Turn on Muke All Cameras     Client Control     Auto 100       Auto .     Anti-Shifted     User Moldyl.     Alit Q       Primary.     Anti-Shifted     User Moldyl.     Alit Q       Secondary.     Auto-Shifted     Disconnect.     Alit Q       Diplay infe for All Cameras     Online Manual.     Alit Alit Q       Bottom Right.     Alit-Shifted     Disconnect.     Alit Alit Q       Bottom Right.     Alit-Shifted     Disconnect.     Alit Alit Q       Bottom Right.     Alit-Shifted     Disconnect.     Alit Alit Alit Alit Alit Alit Alit Alit	Local Settings	Customize	Ctrl+Alt+C	Lock File	Alt+L	Save Modification		
Remove All Flaying Camerat     CRI-MA     Archive Management.     Aichi       Sive Currers     CripAsio     Synchronous Playback     Aici       Turn on/Mute All Cameras     CripAsio     Aici       Stree Currers     Client Control     Aici       Auto     AasShitei     Disconcet     Aici       Primary     AasShitei     Disconcet     Aici       Display info for All Cameras     Online Manual     Aici       Indee     AasShitei     Disconcet     Aici       Bottom Left     AasShitei     Aici     Aici       Bottom Left     AasShitei     Aici     Aici       Bottom Left     AasShitei     Concent     Aici		Remove Selected Playing Camera(s)		Add Tag	Alt+T			
Turn on/Mute All Cameras     CuixAexo       Strum Type for All Cameras     Client Control       Auso     Aasshire       Primary     AAsshire       Discrometary     AAsshire       Discrometary     Aasshire       Discrometary     Aasshire       Discrometary     Aasshire       Discrometary     Aasshire       Discrometary     Aasshire       Bottom Left     Aasshiret       Bottom Left     Aasshiret       Bottom Left     Aasshiret       Bottom Left     Aasshiret		Remove All Playing Cameras	Ctrl+Alt+A					
Turn on Mule All Cameras     CuirAB-O       Stream Type for All Cameras     Client Control       Auto.     Abshitvo     Liser Modify.       Primary.     Abshitvo     User Modify.       Secondary.     Abshitvo     Distomet.       Display info for All Cameras     Switch Liter.       Hide     Abshitvo       Bottom Left.     Abshitvo       Bottom Left.     Abshitvo       Bottom Left.     Abshitvo		Save Current View as Layout		Synchronous/Asynchronous Playback	Alt+S			
Auto     Abrithit     Clean Control       Primary     Abrithit     Disconnet     Abrit       Secondary     Abrithit     Disconnet     Abrithit       Display info for All Cameras     Switch Liter     Abrit       Index     Abrithit     Disconnet       Bottom Right     Abrithit     Abrithit       Bottom Right     Abrithit     Abrithit		Turn on/Mute All Cameras	Ctrl+Alt+O					
Primary		Stream Type for All Cameras		Client Control				
Primary		Auto	Alt+Shift+0	User Modify	Alt+U			
Secondary All-Shifter Switch User All-Shifter Switch User All-Shifter All-Shif		Primary	Alt+Shift+1					
Display info for All Comeras Dinine Manual		Secondary	Alt+Shift+2					
Hide Abstitien Abstitien About		Display Info for All Cameras						
Bottom Left		Hide	Alt+Shift+H					
Eulerenanitsii Eulerenan Prijstar		Bottom Left	Alt+Shift+L		0.170			
		Bottom Right	Alt+Shift+R					
	_							Restore Apply

**Step1:** Click the shortcut button, then press the shortcut key on the keyboard. The shortcut key will be displayed on the shortcut button.

Step2: Finish	settings and cli	ck Apply	button.
You can click	Restore	button to re	store to default settings.

### Advanced

Here you can set some advanced configurations for VMS client. This page is as below:

<b>M</b> ilesight	Live View Playback Smart Analytics E-Map Event & Alarm Settings	🖾 🛓 🧳 🏦 😩 july 🗙 — 🗗 🗙
Dashboard	General Display Performance Shortcuts Advanced	
nevices	Advanced Options	
Camera Management IoT Sensor Management Device Groups Camera Configuration Camera Record Schedule Camera Record Schedule	Locate to Local Log Directory Open Clear Local Cache () Clear Tool Cache Reset All Warning Prompt () Reset	
System Settings Server Settings Analytics Settings User Settings Video Wall Settings Logs Search		
Client Settings		
Multi-Monitor		

The meanings of the items on the page can be referred to the table below:

Table 36.

ltem	Function Introduction
Locate to Local Log Directory	Click Open to locate to client log directory.
Clear Local Cache	Click Clear to clear client cache, such as client logs, video thumbnails, etc.
Reset All Warning Prompt	Click Reset to reset all pop-up prompt dialogs.

### 3.5.2 Multi-Monitor

Now "Milesight VMS Client" supports multiple monitors display setting. When clicking on the "Multi-Monitor" button, the page will show as below.

<b>M</b> ilesight	Live View	Playback	Smart Analytics	E-Map	Event & Alarm	Settings		*	a 🖡 🖄	💄 july 🗸	- ø ×
Dashboard	Multi-Monitor	D									
Devices											
Camera Management IOT Sensor Management Device Groups Camera Configuration Camera Record Schedule											
🛃 System & Servers											
System Settings Server Settings Analytics Settings											
User Settings Video Wall Settings	Monitor1		Monitor2								
Logs Search	None		✓ None								
🖫 Client Settings			None Live Screen								
Local Settings Multi-Monitor			Alarm Screen Full Screen E-Map Playback								
Ē										Identify	

There are 6 modes you can choose to use in each monitor, including [None], [Live Screen], [Alarm Screen], [Full Screen], [E-Map], [Playback].

None: Do nothing settings for other monitors.

**Live Screen:** For this mode, you can add any camera which you want to show on the screen. Just drag the camera and move it into the specified monitor.

**Full Screen:** For this mode, the live video will be showed on the specified monitor as full screen mode. After choosing Full Screen mode and setting Multi-Monitor as the Show on Full Screen option according to the table of <u>Right-click menu of Live View window (page 225)</u>, the live view window of selected cameras will display on the setting monitor as Full Screen.

Alarm Screen: When the camera is triggered, the live video will play on the monitor.

**E-Map:** Users can use the E-map function in this mode.

**Playback:** For this mode, users can search and play back the recorded files of selected cameras.

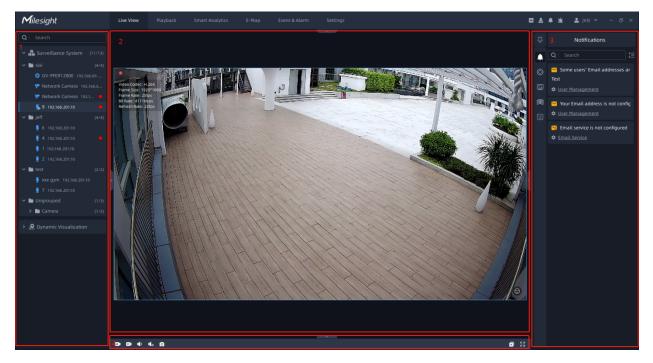
Note:

• There is no limit to the number of monitors, and it depends on the number of monitors connected to the computer.

• There is no configuration quantity limit for Live Screen, but Alarm Screen and Full Screen can only set one separately.

# Chapter 4. Live View

This part is mainly used for viewing real-time video. The interface is mainly made up of left Resource Panel, center Viewing Panel, right Notification Panel and bottom toolbar.



Left Resource panel: (page 208) Displays all servers and cameras inside the VMS system.

<u>Center Viewing panel: (page 221)</u> Can display maximum up to 64 individual live camera streams.

**<u>Right Function panel: (page 229)</u>** There are four tabs, including Notifications, ANPR Preview, PTZ Control and Camera Tour List.

Bottom Toolbar: (page 228) Users can operate all channels being played in batches.

If cameras have not been added, then you can add the cameras manually or by searching cameras. For details, please refer to the <u>3.2.1 Camera Management (*page 45*)</u> of Camera Management. After adding the camera, you can drag it to the Center Viewing panel to display the video.

# 4.1 Left Resource Panel

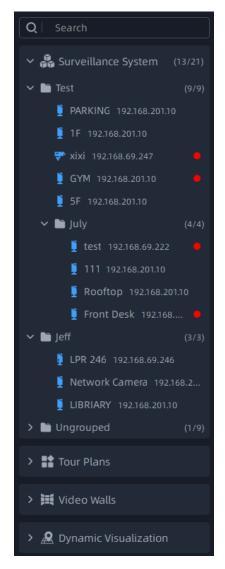
This part is to display the added devices tree according to Server List and Group List.

### Note:

If users have set up the Device Groups, only the Group List will be displayed. Otherwise, the Server List will be shown.

### 4.1.1 Group List

The Group List will show the cameras according to the groups settings in the <u>3.2.3 Device</u> <u>Groups (page 58)</u>. The Group List interface is as below:



Right-click on the device list, the meanings of the items in the Pop-up Menu can be referred to the table .



• There is a red point in the front of camera as shown below. It means the camera is recording. However if you see a gray point, it means recording failed, and you can check the details for failure by hovering your mouse on the point.

-1	Network Camera	192.168.7.94
-	Network Camera	192.168.7.119
	Network Camera	192.168.7.138

• The status of server as shown below. It means the server is offline.



Layouts can be customized. The customized layouts will both show in the Server List and Group List. Setting customized layout can refer to the Save As Layout item of table in the 4.2.2 Right-click Menu of Live View Window (page 224).

#### How to connect the camera:

Select a camera in the left resource panel, anddouble-click on a camera or drag and drop a camera to the center viewing panel to play. You can also right-click camera and select the Play option, then the camera is connected automatically and live video will show in the center viewing panel.

In addition, you can also drag and drop the server to the live view window to batch play all cameras which belong to the server.

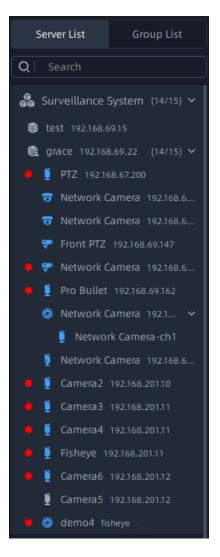
**B** Note: The status of the camera as shown below means the camera is playing.



How to disconnect the camera:

Directly click the button in the camera live view window of center viewing panel to close. Or right click the connecting camera, select the Stop Playing option, the camera will be disconnected.

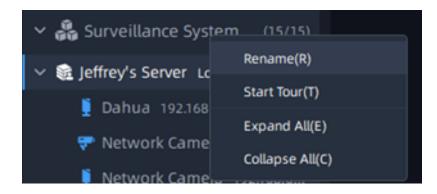
### 4.1.2 Server List



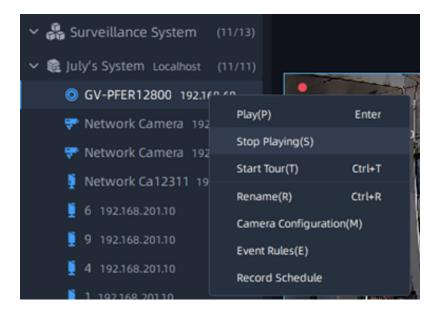
The Server List contains the VMS system, servers inside the system, cameras inside the servers. The Server List interface is as below:

Right-click on the list, there are three kinds of Pop-up Menu as below:

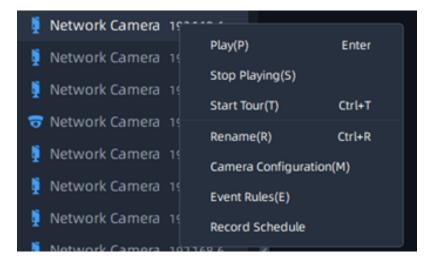
• Pop-up Menu on the right-click of system:



• Pop-up Menu on the right-click of server:



• Pop-up Menu on the right-click of camera:



The meanings of the items can be referred to the table below:

### Table 37.

ltem	Description
Rename	You can rename the system, server and camera.
Start Tour	All cameras in the system start tour or all cameras in the server start tour.
Expand All	Expand all sub devices inside the system or server.
Collapse All	Collapse all sub devices inside the system or server.
Play Cameras	Play all cameras inside the server.
Stop Playing	Stop playing all the videos inside the server or stop playing the video of selected cameras.
Play	Start the live video.
Add Device	Jump to the Add Device page.
Server Settings	Jump to the Server Settings page.
Status	Jump to the DashBoard page.
Logs	Jump to the Logs page.
Device Configuration	Jump to the Device Configuration page.
Device Event	Jump to the Device Event page.

### 4.1.3 Video Wall

Through this function, you can use all screens in the local area network. The video wall list will be shown according to the video wall you created in the <u>Video Wall Settings (page 184)</u>. The video wall is as below:



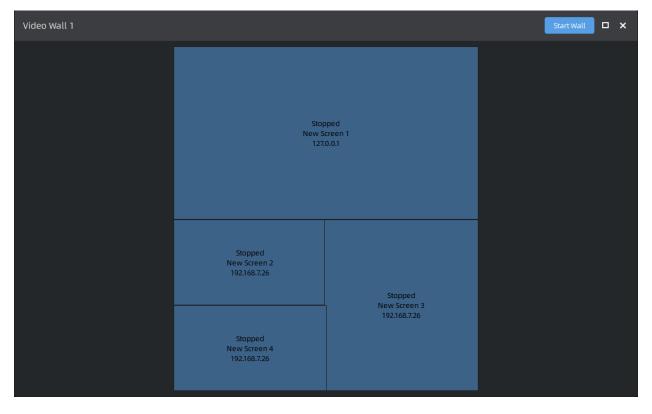
Icon indicates that the screen is not available, you need to check if the Video Wall server is running normally.

#### • How to use video wall?

**Step1:** Right-click the video wall and a menu window will pop up as below:



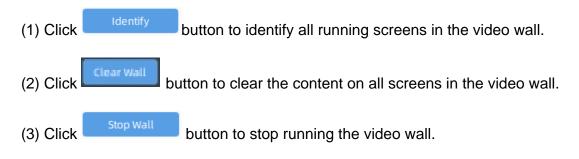
Step2: Click Control Video Wall and a window will pop up as below:



**Step3:** Double-click a screen, then you can enter the specific screen. For more details, please refer to the <u>How to use screen (page 214)</u>?

**Step4:** Click button to run the video wall. Then you can drag and drop the camera, layout and tour plan to the screen.

After running the video wall, there are some operations as below:



#### • How to use screen?

You can also use several of the screens individually.

Step1: Right-click the specific screen and a menu window will pop up as below:



Step2: Click Control Screen and a window will pop up as below:



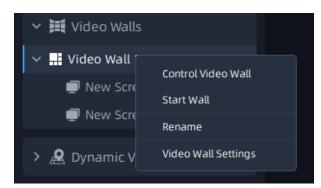
**Step3:** Click Start Screen button to run the screen. Then you can drag and drop the camera, layout and tour plan to the screen.

After running the screen, there are some operations as below:

- (1) Click Refresh button to refresh the screen.
- (2) Click button to identify the corresponding screen.
- (3) Click Clear screen button to clear the content on the screen.
- (4) Click stop screen button to stop running the screen.

#### Right-click menu

(1) When the video wall is not running, right-click the video wall and a menu window will pop up as below:

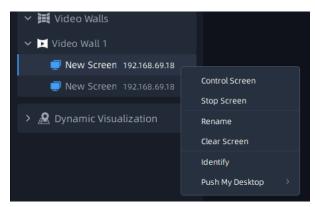


The meanings of the menu can be referred to the table below:

#### Table 38.

Item	Function Introduction
Control Video Wall	Use the video wall. For more details , please refer to the <u>How to use video wall ?</u> (page 213)
Start Wall	Run the video wall.
Rename	Rename the video wall.
Video Wall Settings	Jump to the Video Wall Settings page.

(2) When the video wall is running, right-click the video wall and a menu window will pop up as below:

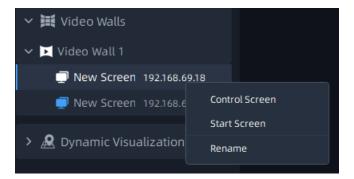


The meanings of the menu can be referred to the table below:

#### Table 39.

Item	Function Introduction			
Control Video Wall	Use the video wall. For more details , please refer to the <u>How to use video wall</u> (page 213)?			
Stop Wall	Stop running the video wall.			
Clear Wall	Clear the content on all screens in the video wall			
Rename	Rename the video wall.			
Save Matrix	Save the content currently playing on each screen of the video wall.			
Identify Screens	Identify all running screens in the video wall.			
Video Wall Settings	Jump to the Video Wall Settings page.			

(3) When the screen is not running, right-click the screen and a menu window will pop up as below:



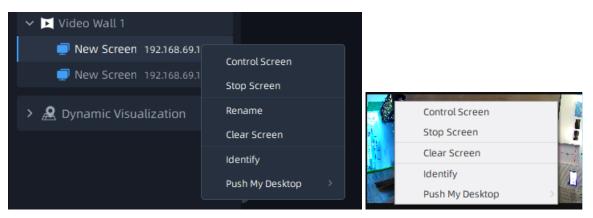
The meanings of the menu can be referred to the table below:

#### Table 40.

ltem	Function Introduction
Control Screen	Use the video wall. For more details , please refer to the <u>How to use screen (page 214)</u> ?
Start Screen	Run the screen.

ltem	Function Introduction
Rename	Rename the screen.

(4) When the screen is running, right-click the screen and a menu window will pop up as below:

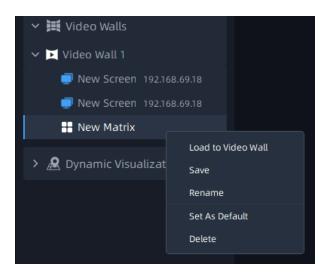


The meanings of the menu can be referred to the table below:

#### Table 41.

ltem	Function Introduction	
Control Screen	Use the video wall. For more details , please refer to the <u>How to use screen (page <math>214</math>)</u> ?	
Stop Screen	Run the screen.	
Rename	Rename the screen.	
Clear Screen	Clear the content on the screen.	
ldentify	Identify the corresponding screen.	
Push My Desktop	Push the desktop to the screen for display. If there are multiple desktops, select any one to push as needed.	

(5) Right-click the the matrix and a menu window will pop up as below:



The meanings of the menu can be referred to the table below:

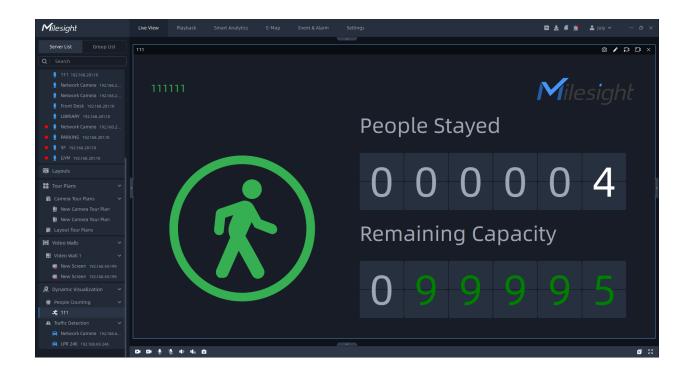
#### Table 42.

ltem	Function Introduction
Load to Video Wall	Each screen will play the content according to this matrix.
Save	Save the content currently playing on each screen of the video wall to this matrix.
Rename	Rename the matrix.
Set As Default	Set the matrix as default. Every time you run the video wall, each screen will play the content according to this matrix. There could be at most only one default matrix.
Delete	Delete the matrix.

### 4.1.4 Dynamic Visualization

#### **People Counting**

Click on the group list on the left panel, and you can see the real-time count results of all cameras within the set group, as well as the light status indicating whether the current number of people staying reaches the set maximum number of people staying.



**Remaining Capacity:** Display the value of the remaining number of people staying in real time, and the minimum value is 0. (Remaining Capacity = Max.Stay - People Stayed, Max. Stay is set in the Smart Analytics -> People Counting Groups interface (page 295))

**People Stayed:** Display the number of people staying in real time. (Stays value = In value - Out value, the minimum number of people staying is 0)

#### **Traffic Detection**

Here you can see the detection results of Traffic Detection. Double click the channel on the left list, you can see the detected target in real time according to the settings in the <u>Traffic</u> <u>Detection (page 122)</u>.

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<b>M</b> ilesight	Live View	Playback	Smart Analytics	E-Map	Event & Alarm	Settings	 	 🖾 🕹 🗳 🚵	💄 july 🗸 🚽 🗇 🗙
	Network Ca12	311 (192.168.69.246)				^			
> 👬 Surveillance System (11/13)									
> 顶 Layouts									
> 📑 Tour Plans									
> 🗮 Video Walls									
✓ ▲ Dynamic Visualization									
✓ ▲ Traffic Detection									
Retwork Ca12311 192.168									
		1.0				~			× 53

# 4.2 Live View Workspace

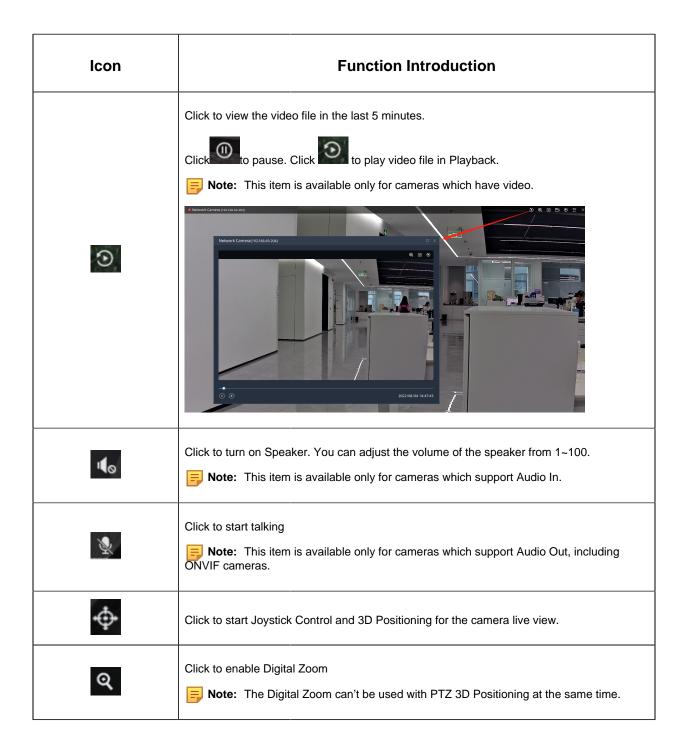
### 4.2.1 Toolbar of Live View Window

The meanings of the icons on the toolbar can be referred to the table below:

#### Table 43.

Network Camera (192.168.69.204)

lcon	Function Introduction
•	It will display a red icon in the upper left corner of the channel if it is recording.



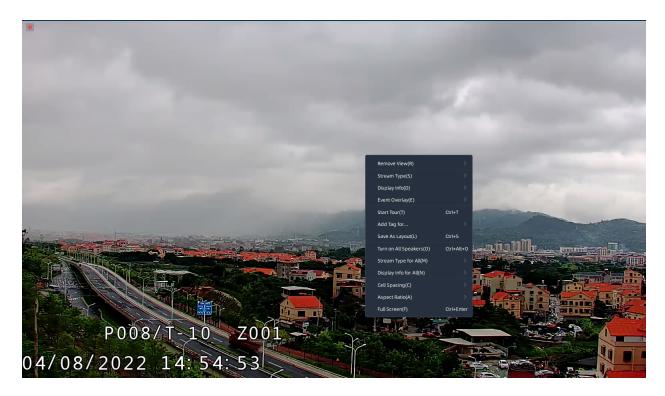
Icon	Function Introduction
	Snapshot  Note: Please configure the storage path first, otherwise a pop-up window will inform you to set as below when clicking the button.  Varning  Failed to save snapshot. Please check and configure the storage path first.  Click to configure storage setting
	Start/Stop recording manually  Note: Please configure the storage path first, otherwise a pop-up window will inform you to set as below when clicking the button.  Note: Please check and configure the storage path first.  Click to configure storage setting
۲	Image: Contract of the second seco

lcon		Function Introduction
		Select live view of one original fisheye view and three regional views.
	Enable Dewarping	Select live view of one 360° panoramic view and one regional view.
۲		Select live view of one 360° panoramic view and four regional views.
		Select live view of one 360° panoramic view and six regional views.
		Select live view of one original fisheye view and eight regional views.
		Brightness: Adjust the brightness of the scene
		Contrast: Adjust the color and light contrast
<b>t</b>	★     50       ●     50       ●     50       ▼     50       ↓     50       ↓     50       ↓     50	Saturation: Adjust the saturation of the image. Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out"
4		Sharpness: Adjust the Sharpness of image. Higher Sharpness sharps the pixel boundary and makes the image looks "more clear"
	C	2D DNR/3D DNR: Adjust the noise reduction level
		<b>Default:</b> Restore brightness, contrast and saturation to default settings
×	Stop playing the Live	View

**Note:** You can set display mode of the top toolbar of live view in the <u>Display (page 196)</u> of Local Settings.

### 4.2.2 Right-click Menu of Live View Window

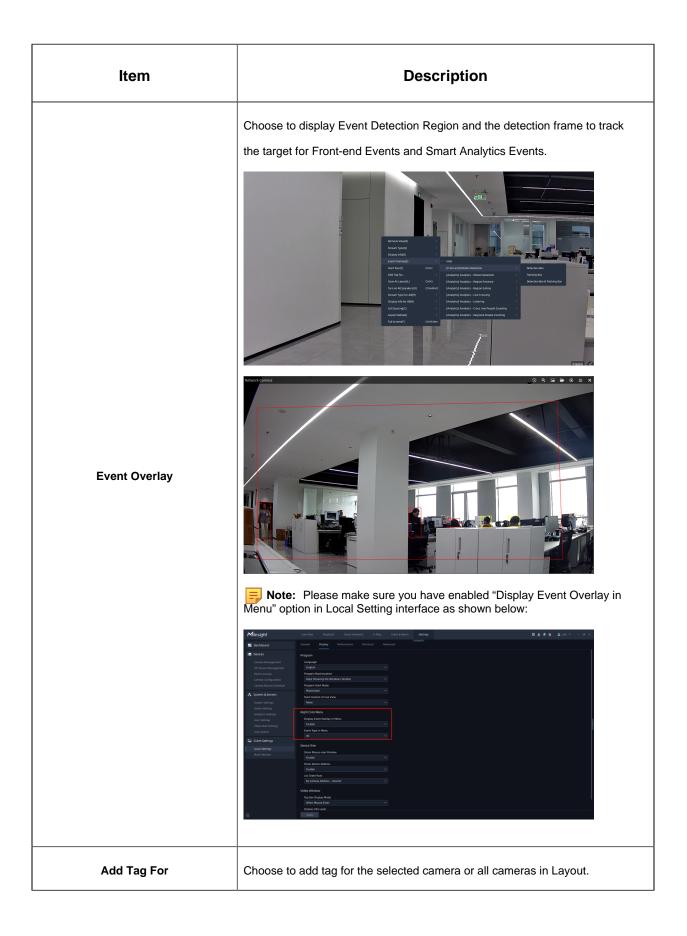
This part is used for playing the Live View window. Right-click the camera live view window to pop up a menu as shown below:



The meanings of the items on the toolbar can be referred to the table below:

### Table 44.

ltem	Description
Stream Type	There are three options available, including Auto, Primary and Secondary. If you choose the the Auto option, then the camera video will automatically switch stream according to computer performance.
Display Info	Choose to display the video stream information at Left or Right of the live view window, or customize the display position of stream information. You can also choose to hide the stream information.



ltem	Description				
Full Screen	Display all cameras in the layout to full screen. Click again the Exit Full Screen to restore the normal window.				
Multi-Monitor	This option is available only when you set monitor as the Full Screen mode, more Full Screen mode details can see the <u>Multi-Monitor (page 204)</u> . After choosing Full Screen mode and setting Multi-Monitor as the Show on Full Screen option, the live view window of selected camera will display on the setting monitor as Full Screen.				
Remove	Choose Selected Views or All Views in Layout to remove the camera live view.				
Save As Layout	Choose the option to save layouts which you are interested in. You can name the new layout and the layout will be added to the device list panel. The pop-up Save Layout window is as below: Save Layout window is as below: Save Layout Name New Layout Save Cancel Pote: It supports saving Client-side Dewarping mode of Fisheye model and stream information to the layout on Live View and Playback interface. With the supports saving Client-side Dewarping mode of Fisheye model and stream information to the layout on Live View and Playback interface.				

ltem	Description
Cell Spacing	Set the Cell spacing size among the live view windows in the layout. There are four options available, including None, Small, Normal and Large.
Aspect Ratio	You can choose 1:1, 4:3, 16:9, 3:4 and 9:16 to show the window aspect ratio.
Star Tour/Stop Tour	Click the option to start/stop tour of cameras in the current layout.
Turn on/Mute All Speakers	Enable or disable the speaker of all cameras in the current layout.
Stream Type for All	Set stream type for all cameras in the current layout.
Display Info for All	Set display of stream information for all cameras in the current layout.

### 4.2.3 Bottom Toolbar

Users can operate all channels being played in batches. The meanings of the icons on toolbar can be referred to the table below:

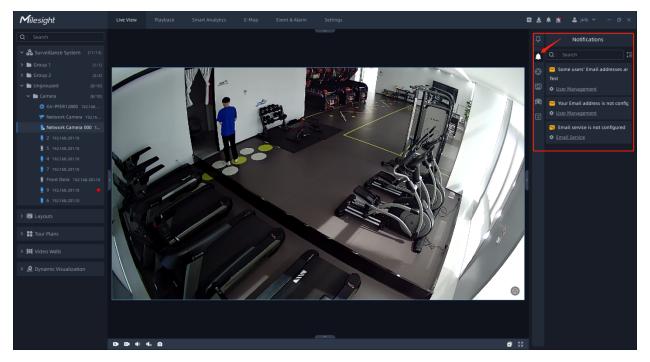
### Table 45.

Item	Function Introduction
	Start/Stop Recording for All.
. الله ال	Start/Stop Talking for All.
<b>4</b> 0 / 46	Turn on/Mute All Speakers.
۵	Snapshot for All.
	Close All.
גא עש	Full Screen.

# 4.3 Right Panel of Live View

### 4.3.1 Notification

User can receive and check real-time notifications from system or event setting pushed in the panel. Also, user can directly click received notification window to jump up to the related configuration page. After the setting is completed and the configuration is valid, the corresponding notification in the panel will disappear. There are two types of notification, including system notification and event rule notification. The panel page is as below:

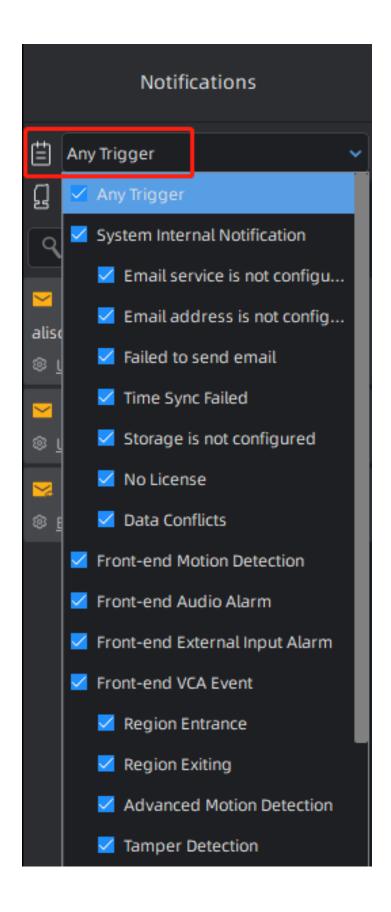


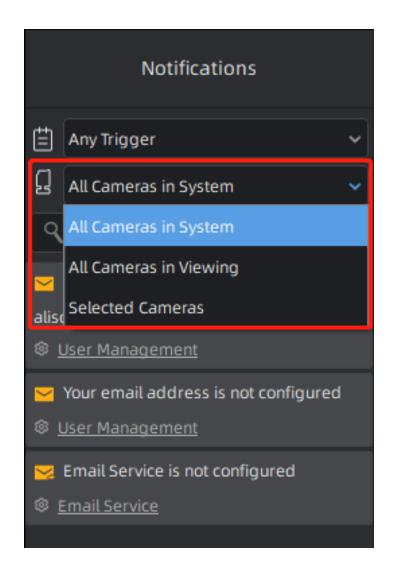
**System Notification:** If the system Email service, Email address or Storage are not configured, etc, then the notifications will be automatically pushed and shown in the Notification panel according to system detecting rules.

**Event Rule Notification:** You can refer to the table of <u>Event Rule Settings (page 344)</u> to set event rule and choose Show Notification in Action configuration options. When the event is triggered, the event notification will be pushed to the Notification panel.

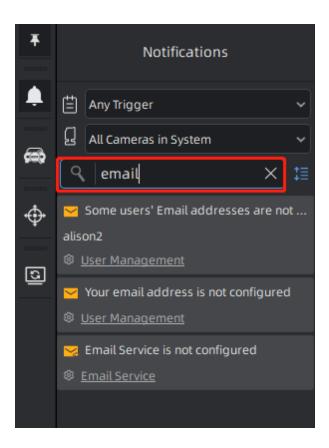
And you can filter the notifications based on the event or camera, or you can directly search for notifications in the notification panel.

• Notification filtering:



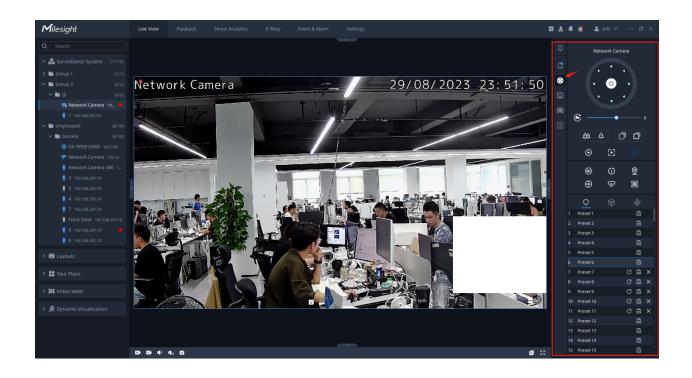


• Search for notification:



### 4.3.2 PTZ Control

Users can remotely pan/tilt/zoom the camera by operating the PTZ Control panel. It can zoom in on far distant objects with exceptional clarity. You can also easily track objects with high precision by using a mouse or joystick.



The meanings of the items can be referred to the table below:

### Table 46.

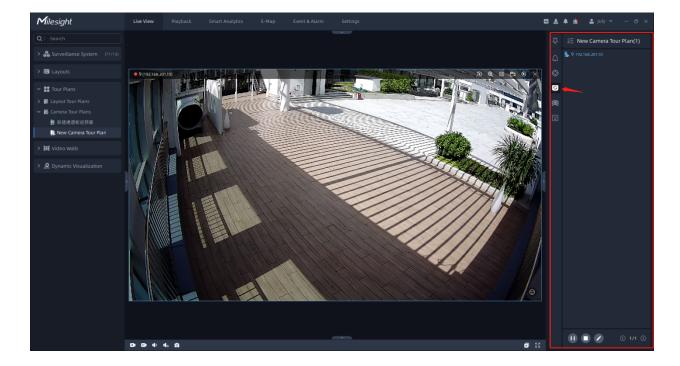
ltem	Description
	Navigation buttons are used to control the direction. The rotation button is used for Auto Scan.
S	To adjust the speed of pan/tilt movements, from 1 to 10.
·	Click -/+ to zoom in and zoom out.
	Click -/+ to focus near or far of the lens.
• E 🔅	Lens Initialization, Auxiliary Focus and Auto Iris.

ltem	Description
Ċ.	Lighting For 30s: Click to open/close the White LED for lighting 30s.
30	<b>3D Positioning:</b> Click to enable/disable 3D positioning.
Ú	One-touch Patrol: Click to carry out the patrol.
<b>©</b>	Auto Home: Click to enable Auto Home.
$\odot$	Manual Tracking: Click to track the moving objects.
	Dehumidifying: Defog.
Þ	<ul> <li>Auto Tracking: With this option enabled, the camera can perform the digital Pan/Tilt/ Zoom to track the moving objects automatically.</li> <li>Note: <ul> <li>Auto Tracking is only supported in regional views.</li> <li>Auto Tracking is only supported in ceiling mounting mode of on-board dewarping mode.</li> </ul> </li> </ul>
O01 Preset 1         C III ×           002 Preset 2         C III ×           003 Preset 3         IIII	Call the preset.  Call the preset.  Save the setting of the current preset.  Delete the preset.
Q     Q       ●     Patrol 1       ▶     Six X       ●     Patrol 2       ③     Patrol 3	Play the patrol.         Click the         button to set the patrol according to the page as shown below:         + - + + + + + + + + + + + + + + + + + +

	lter	m	Description
			Delete the patrol.
	Ф ©		Play the pattern.
Ф Ф	Pattern 1 Pattern 2 Pattern 3	►	Click to start recording for the pattern, and click again to stop.
₽	Pattern 4	۲	Delete the pattern.

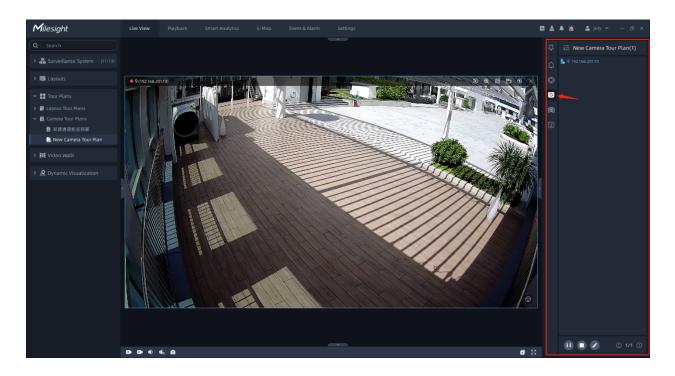
### 4.3.3 Tour List

This Tour function includes Camera Tour and Layout Tour. By using this function, the selected cameras/layouts will automatically switch live view window, which greatly offers convenience for users. The Tour List page is as below:



Camera Tour:

• Layout Tour:



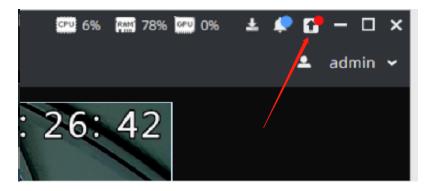
The meanings of the items can be referred to the table below:

### Table 47.

ltem	Description
	Click the button to edit the tour plan. • Camera Tour Plans:
	Remove camera in the tour list.
	Click the button to start tour. Then the cameras in the Cameras Tour List will start touring according to your tour time setting.
	Click the button to pause the current tour.

Item	Description
	Click the button to stop and exit the current camera tour window.
< 1/4 >>	Click or button to jump to previous or next camera live view window of camera tour list.

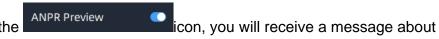
**Note:** If there is a new version available for upgrade, there will be an alert in the upper right corner of the client. If it is already the latest version, the icon will not appear.



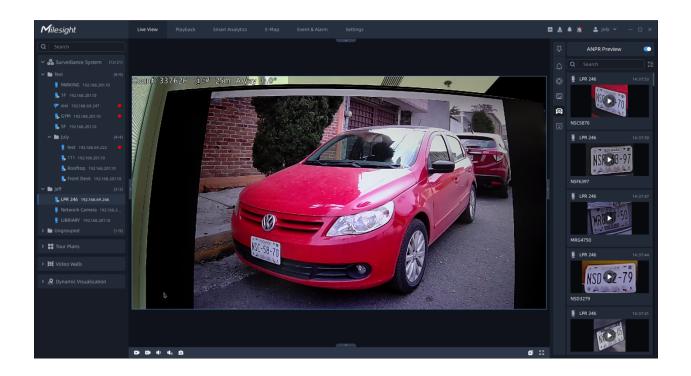
### 4.3.4 ANPR Preview

Here you can preview the license plate recognition results which are pushed by front-end

Device and VMS-end ANPR. If it is the latter one, then the Al icon will be added next to the license plate number in the picture, and the Analytics Mode in the Details will be displayed as VMS Analytics, while the opposite is Camera Analytics.



Only when you click the **ANPR** icon, you will rece ANPR in the panel, the preview interface is as below:



You can right click on the ANPR notification push window to pop up a menu as below, and choose to add the license plate to White or Black List in the VMS system. If the license plate has already existed in the White or Black List of VMS system, then you can choose to change its type as you want. You can also choose to delete the license plate from White or Black List.

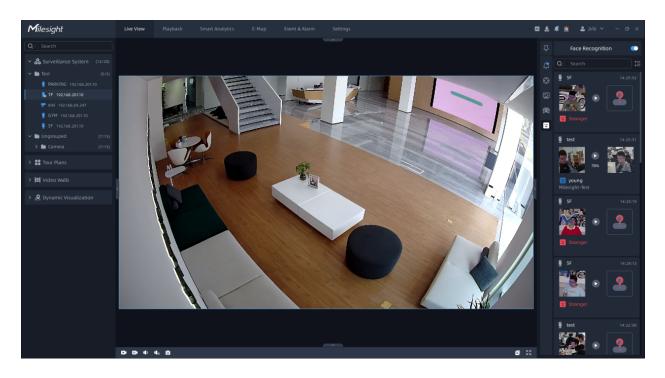


### 4.3.5 Face

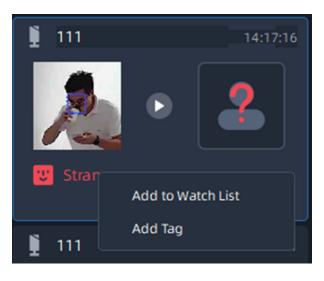
Here you can preview the face recognition results. Only when you enable the

Face Recognition \_\_\_\_\_, you will receive a message about face recognition in the panel, the preview is as below:

As shown in the above figure, if the recognized person is not in the Face Watch List, the recognition result will be displayed as "Stranger." If the person is in the Face Watch List, it will display the imported name, department information, and the matching score.

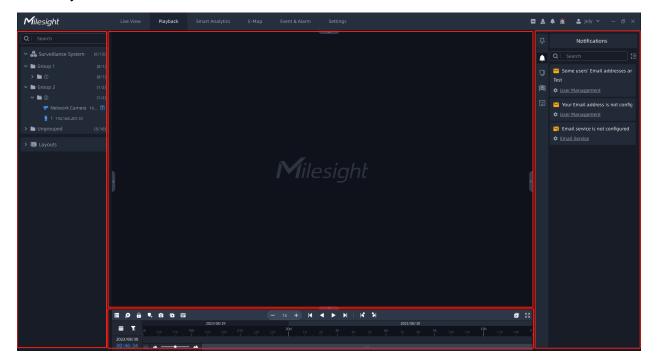


You can right click on the Face Recognition notification push window to pop up as below, and choose to add the recognized photos to Watch List. You can also add tag to the corresponding video footage of the recognition result for convenient future retrieval.



# Chapter 5. Playback

In this part, you can search and play back the recorded files of selected cameras.



The Playback interface is as below:

Left Resource Panel: displays all servers and cameras inside the VMS system.

Center Playback Panel: can display unlimited individual playback video items.

Bottom Control Panel: control videos replayed in center viewing panel.

**Right Notification Panel:** there are two tabs, including Notifications and Tags for playback. The Tags for playback tab can refer to <u>Right Panel of Playback (page 277)</u>.

Here you can select the cameras in Left Resource Panel and replay the selected cameras through three ways, including double clicking the desired cameras, directly dragging the desired cameras to the Center Playback panel, or right clicking the cameras and choosing

the Play option. You can find desired video to replay more precisely by clicking the button.

#### Note:

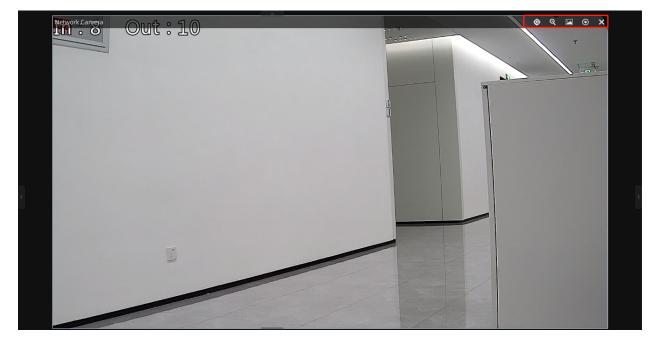
• The icon in the front of camera means the recording video of camera is available.

- Blue typeface means there are recording files, white typeface means middle dates but no file and gray typeface means you can't click.
- You can also press on the Ctrl key and choose several continuous dates on the calender to search video.

## 5.1 Workspace and Toolbar of Playback Window

This part is used for playing recorded videos. The right-click menu and top toolbar of playback window provide some operation settings.

The playback window of camera is as below:



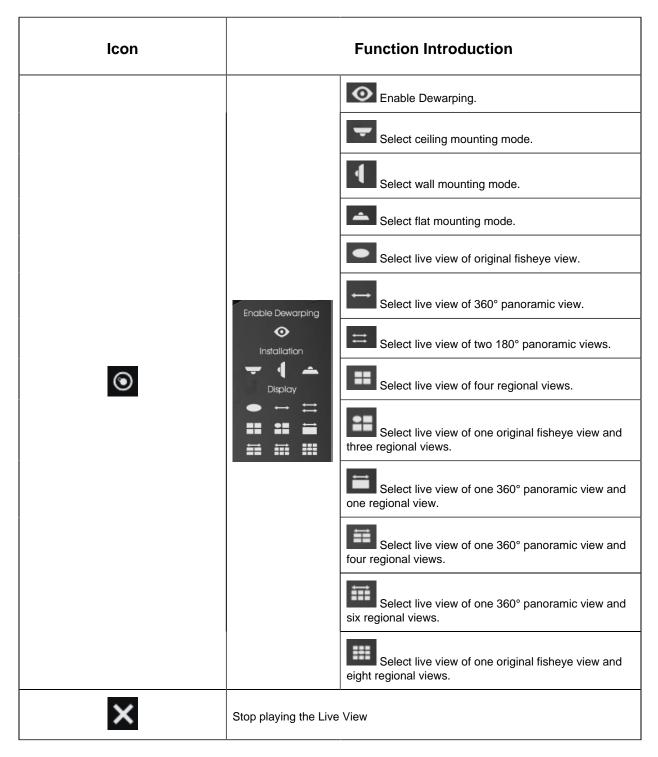
The toolbar of Playback window:



The meanings of the items on the toolbar can be referred to the table below:

Table 48.

Icon	Function Introduction
¢	<image/>
Чo	Click to turn on Speaker, and you can adjust the volume of the speaker from 1~100.
ବ	Click to enable digital zoom  Note: The digital zoom can't be used with PTZ 3D Positioning at the same time.
	Click the button and a pop-up window will shown as below. You can click the bottom blue text to check the snapshot storage path.  Snapshot Saved Successfully  Total Content of the storage path.  Total Content of the storage path.  Total Content of the snapshot storage path.  Total Content o



### The right-click menu of Playback window:

The meanings of the items on the right-click menu can be referred to the table below: **Table 49.** 

Item	Description
Stream Type	There are three options available, including Auto, Primary and Secondary. If you choose the the Auto option, then the camera video will automatically switch stream according to computer performance.
Display Info	Choose to display the video stream information at Left or Right of the live view window, or customize the display position of stream information. You can also choose to hide the stream information.
Split Playback	Divide the video files into several channels in the specified time period according to needs. When watching playback, users can watch videos of different time simultaneously. More details can refer to <u>Split Playback (page 263)</u> .
Add Tag for	Add tag for the selected cameras or all cameras in the playback panel.
Full Screen	You can choose Current View to display the selected camera to full screen, or choose Layout to display all cameras in the layout to full screen. Click again the Exit Full Screen to restore the normal window.
Remove	Choose Selected Views or All Views in Layout to remove the camera playback.
Save As Layout	Choose the option to save layouts which you are interested in, and you can name the new layout and the layout will be added to the device list panel. The pop-up Save Layout window is as below: Save Layout Name: New Layout Save Cancel
Cell Spacing	Set the cell spacing size among the live view windows in the layout. There are four options available, including None, Small, Normal and Large.
Aspect Ratio	You can choose 1:1, 4:3, 16:9, 3:4 and 9:16 to show the window aspect ratio.
Pause/Resume all	Pause/Resume all recorded videos in the current layout.
Turn on/Mute All Speakers	Enable or disable the speaker of all cameras in the current layout.

Item	Description
Stream Type for All	Set stream type for all cameras in the current layout.
Display Info for All	Set display of stream information for all cameras in the current layout.

# 5.2 Playback Control

### 5.2.1 Video Playback Tool Bar Description



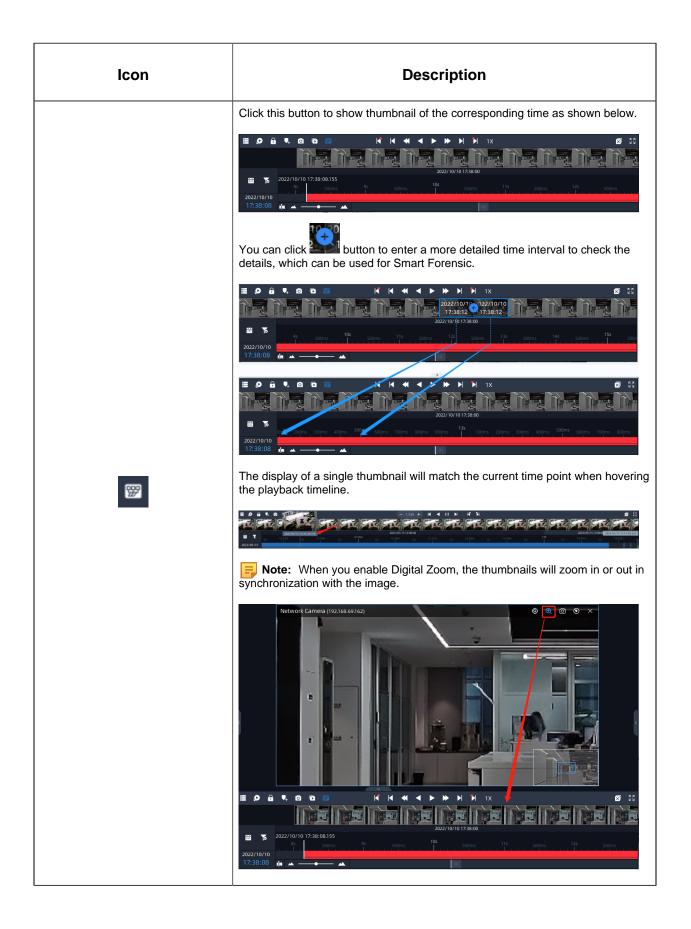
The meanings of the items can be referred to the table below:

#### Table 50.

lcon	Description
	Archive Management, more details can refer to <u>Archive Management (page</u> <u>265)</u> .

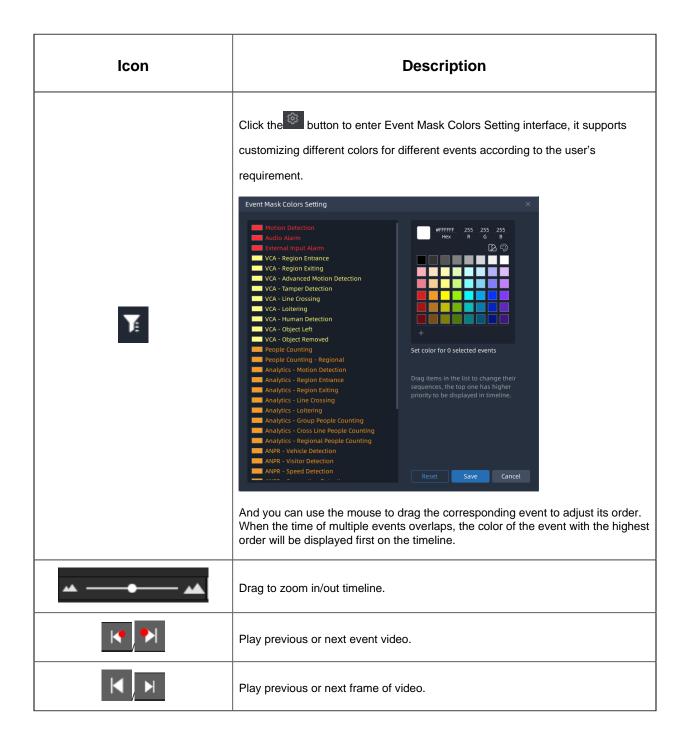
Asynchronous Playing or Synchronous Playing switch button         You can click Image as shown below once switching to different playing. The timeline will change as shown below once switching to different playing modes;         Asynchronous Playing: The timeline only represents the recorded videos of selected channel.         Image: Synchronous Playing: Choose Synchronous Playing to playback the recorded videos of all channels in the center playback panel at the same time.         Image: Note:         • When you use Synchronous mode to play, the thick bar at the top of the timeline represents the video files of all cameras in the center playback panel.         • When you use Synchronous mode to play, the thick bar at the top of the timeline represents the video files of all cameras in the center playback panel.         • When you use Synchronous mode to play, the upper left of each window will display the status of asynchronous playback, such as multiples, pauses, etc.	lcon	Description
	Icon	Asynchronous Playing or Synchronous Playing switch button You can click button to switch to Asynchronous Playing or Synchronous Playing. The timeline will change as shown below once switching to different playing modes; Asynchronous Playing: The timeline only represents the recorded videos of selected channel. Synchronous Playing: Choose Synchronous Playing to playback the recorded videos of all channels in the center playback panel at the same time. Note: When you use Synchronous mode to play, the thick bar at the top of the timeline represents the video files of all cameras in the center playback panel. When you use Synchronous mode to play, the upper left of each window will display the status of asynchronous playback, such as multiples, pauses, etc.

lcon	Description
â	Lock video file for selected cameras, you can set locked time duration and reasons as below:
V+	Add Tags for selected cameras, you can set tag name, reasons and time duration as shown below: Name VbackTag_Network Camera_20201201152942 Note Adding tag for some reasons Time 2020-12-01 15:29:42 - 2020-12-01 15:32:12 Save Cancel
۵	Snapshot for all
Ö	Click this button to enter the Video Synopsis function. Video Synopsis function supports the simultaneous display events that occurred at different times to reduce hours of video footage to a few minutes, which can help users focus on key events. For more details, please refer to <u>5.2.2 Video Synopsis (page 253)</u>



lcon	Description
	Choose date to search recorded videos of camera, the page is as below:
	« < October 2022 > » 🎓
	Sun Mon Tue Wed Thu Fri Sat
	25 26 27 28 29 30 1
	2 3 4 5 6 7 8
	9 10 11 12 13 14 15
	16 17 18 19 20 21 22 •
	23 24 25 26 27 28 29
	30 31 1 2 3 4 5
	< 2022/10/14 >
	00:00 1:00 2:00 3:00
	04:00 5:00 6:00 7:00
	08:00 9:00 10:00 11:00
	<b>12:00 13:00</b> 14:00 15:00 16:00 17:00 18:00 19:00
	20:00 21:00 22:00 23:00

lcon	Description
	Click the object counting to show the event mask popup window.



lcon	Description
— 256X +	Adjust the speed of video playback. <b>Speed Down:</b> Includes 32X, 16X, 8X, 4X, 2X, 1X, 1/2, 1/4, 1/8, 1/16 and 1/32 for Play or Rewind. <b>Speed Up:</b> Includes 1/32, 1/16, 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X and 32X for Play or Rewind. <b>Solution</b> <b>Note:</b> The specific acceleration situation depends on the decoding performance of the Client.
	Rewind or Play the video.
11	Pause the video.
	Close all Views.
к א א	Full Screen.

## 5.2.2 Video Synopsis

Video Synopsis function supports the simultaneous display events that occurred at different times to reduce hours of video footage to a few minutes, which can help users focus on key events.

Before setting, you need to confirm the following items:

- The Video Synopsis component is already installed and running on your device.
- The device is equipped with an NVIDIA graphic card (CUDA compute capability 7.5 or higher). Besides, the memory of graphic card is recommended above 6G.

The setting steps are as below:

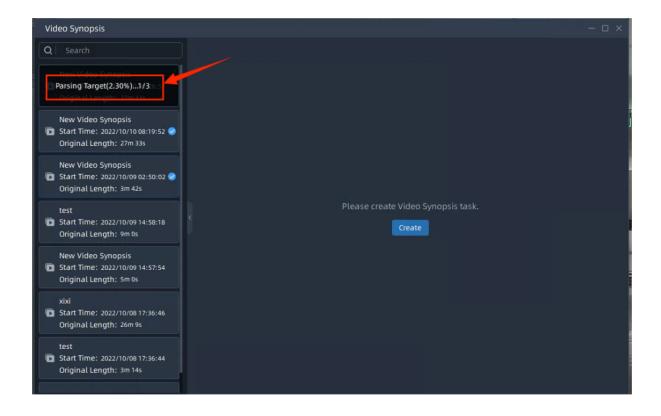
Step1: Click D button on Playback interface to enter Video Synopsis interface.

<b>M</b> ilesight	Live View Playback Si	mart Analytics E-Map Logs	Settings	🖾 素 🦧 💄 admin 🗸 — 🗗 X
Server List Group List				
Q Search				
🝰 199 (1/1) 🗸	Video Synopsis			×
	Q			
<ul> <li>Network Camera 192.168.69</li> <li>Layouts</li> </ul>	ew Video Synop t art Time: 2022/1 t riginal Length: : t w Video Synop	10/10 08:19:52 🥪 27m 33s ssis		
	<ul> <li>S art Time: 2022/1</li> <li>C iginal Length: 1</li> <li>te it</li> <li>S1 nt Time: 2022/1</li> </ul>			
	O ginal Length: 5 Ne w Video Synop St. rt Time: 2022/1 Or ginal Length: 5	osis 10/09 14:57:54 <	Please create Video Synopsis task. Create	
	xix Start Time: 2022/1 Ori jinal Length: 2			
	test Start Time: 2022/1 Oriç inal Length: :			
	Create New Task			
	≡ ,0 ⊕ ,0 ⊡ ⊠			<b>a</b> 3
	12h 2022/10/10	2022/10/09 h 15h 16h 17h 18h 19h	n 20h 21h 22h 22h 10d 1h 2h 1	2022/10/10 2022/10/10 10:42:1 In 4n 5n 6n 7n 6n 9n 10n 11h
	10:42:17 📠 🔺 —— 🔺			ш.

**Step2:** Click the "Create" button to pop up a new window, enter Video Name, Source Camera, Time and Stream Type, then click the "Create" button to create a new video synopsis task.

<b>M</b> ilesight	Live View	Playback Smart Analytics	E-M	-Map Logs Settings		🖾 🛓 🧳 💄 admin 🗸 — 🗇 🗙
Server List Group List						
Q Search						1
<b>♣</b> 199 (1/1) ∽		Video Synopsis				
199 192.168.69.199 (1/1) ~						
🗈 💃 Network Camera 192.168.69		New Video Synopsis				
👿 Layouts		D Start Time: 2022/10/10 08:19:52 🥥		Create New Video Synopsis		
		Original Length: 27m 33s		Video Name		
		New Video Synopsis		New Video Synopsis		
		Original Length: 3m 42s		Source Camera Network Camera 192.168.69.162		
				Time		
		Start Time: 2022/10/09 14:58:18 Original Length: 9m 0s		2022/10/10 08:26:51 - 2022/10/10 08:56:51		
		New Video Synopsis		Stream Type		
		D Start Time: 2022/10/09 14:57:54	<	Primary Stream 🗸		
		Original Length: 5m 0s		Original Length		
		xixi Start Time: 2022/10/08 17:36:46				
		Original Length: 26m 9s		(1) Create Cancel		
		test				
		Start Time: 2022/10/08 17:39:44 Original Length: 3m 14s				
	U U	🕀 Create New Task				
	≣ Ø Ĝ	. 0 0 8		R R 4 1 1 10	N N 1X	2 53
				2022/10/09		2022/10/10 2022/10/10 10:43:1
	2022/10/10	120 136 146 15h	16h	17h 18h 19h 20h 21h 22h 23h	100 1h 2h 3h 4h	Sh 6h 7h 8h 9h 10h 11h
	10:43:13					

After the parsing process reaches 100%, the video synopsis task is created successfully.

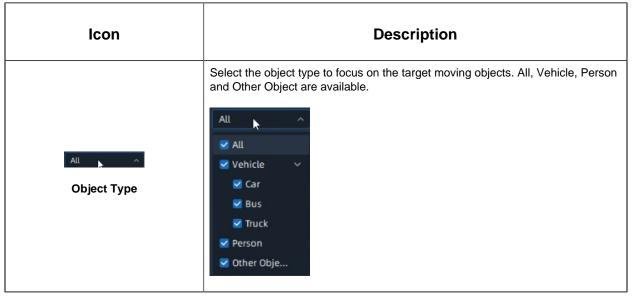


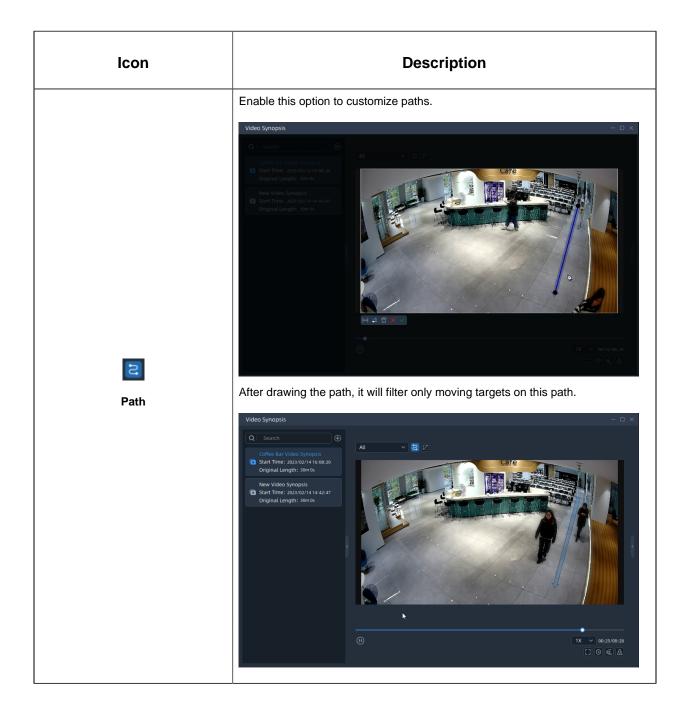
**Step3:** When the task is created successfully, double click the task, then click **b**utton to play the synopsis video, and you will see the events that occurred at different times are displayed at the same time as shown below.

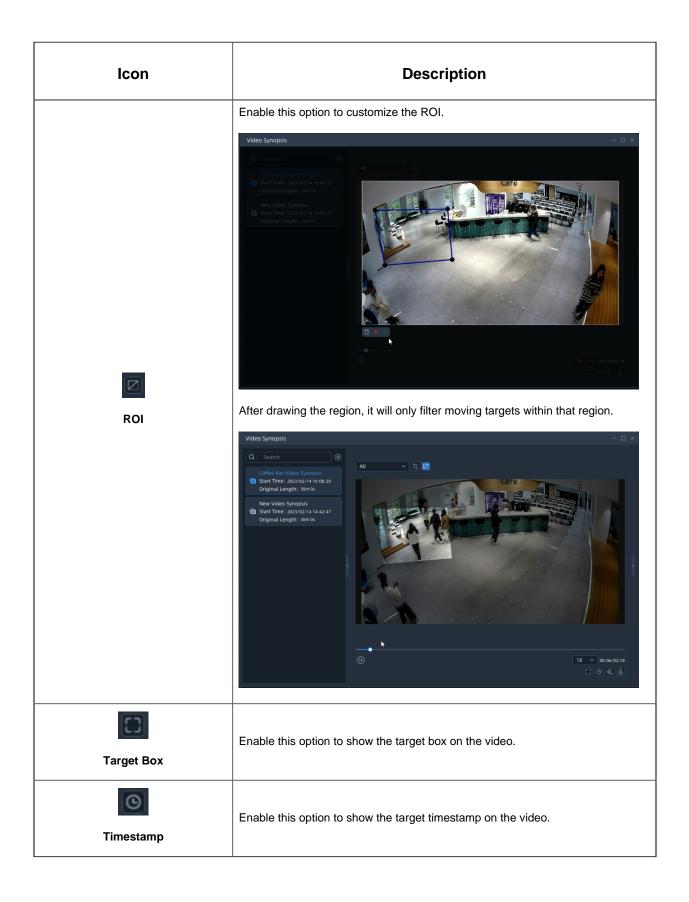


The meanings of the items can be referred to the table below:

#### Table 51.







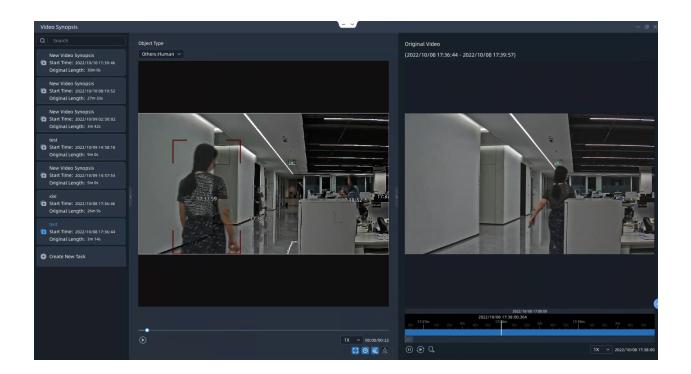
lcon	Description
Crowed Level	Select the crowed level. Highest, High, General, Low and Lowest are available. The higher the crowded level, the more objects will be shown in the video.
Export	
1X V Speed	Adjust the speed of the synopsis video. 1/4X, 1/2X, 1X, 2X, 4X are available.

**Step4:** When hovering on a target in the video, the target box will turn red, clicking on the target box, it will jump to the original video for more details.

When viewing the original video, users can click the video quickly, or click



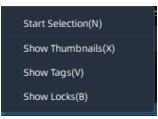
button to jump to the playback interface to play the video directly.



## 5.2.3 Settings Menu on the Timeline

You can directly drag the mouse to select a period of time on the timeline or refer to the steps as below to select.

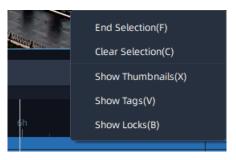
Step1: Right-click the timeline and a menu window will pop up as below:



**Step2:** Select the Start Selection and a vertical line will show on the position of right-clicking timeline as below:



**Step3:** Move the mouse to another position of the timeline and right-click again, a menu show as below:

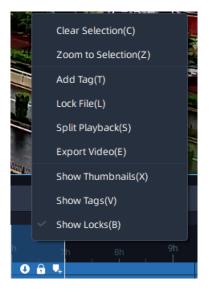


**Step4:** Click the End Selection and the selected time show as below:



You can export video, lock file, and add tag directly on the timeline.

Step5: Right click the timeline, a menu show as below:



The meanings of the menu on timeline can be referred to the table below:

#### Table 52.

Item	Function Introduction
Start Selection	Select start time of period on the timeline.
End Selection	Select end time of period on the timeline.
Clear Selection	Clear selection of start time or selection of a period of time on the timeline.

ltem	Function Introduction
Zoom to Selection	Zoom the selection of time period in to extend to whole timeline.
Add Tag	Add tag for the selected time period.
Lock file	Lock the selected time period.
Split Playback	Divide the video files into several channels in the specified time period according to needs. When watching playback, users can watch videos of different time simultaneously. More details can refer to "5.3 Split Playback".
Export Video	Export the video for the selected time period. Settings about Export Video can see Export (page 267).
Edit Tag	Edit tag which you set.
ExportTag	Export tag which you set.
Play Tag Video	Play videos with tag you set.
Delete Tag	Delete tag which you set.
Show Thumbnails	Show thumbnail of the corresponding time. Users can also resize the thumbnail timeline as needed.

ltem	Function Introduction
Show Tags	After setting the tags, you can choose the option to show the tag on the timeline as below: -12-02 02:48:40.778 02h 03h 04h 05h 06h 07h 08h fisheye
Show Locks	After setting the lock files, you can choose the option to show the lock file on the timeline as below:

## 5.3 Split Playback

Split Playback allows you to divide the video file of a specified period of time into several parts when watching playback according to your needs, so that users can watch videos of different time simultaneously.

Split Playback setting steps are as below:

**Step1:** Right click the playback window of a camera and choose Split Playback, or rightclick the selected time period on the timeline and choose Split Playback, a window will pop up as below:

• Time Period setting page:

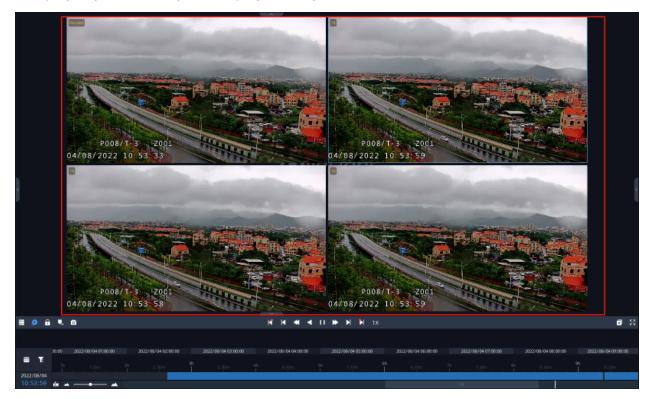
Split Playback	×
Camera	
Camera3 192.168.201.11	
Туре	
Time Period Specific Number	
Interval	
1 hour	~
Time	
2022/08/04 00:00:00 - 2022/08/04 10:06	:42
11 channels will be created.	
Add Cano	el

• Specific Number setting page:

Split Playback	$\times$
Camera	
Camera3 192.168.201.11	
Туре	
Time Period Specific Number	
Channels	
4	
Time	
2022/08/04 00:00:00 - 2022/08/04 10:06:	42
Start Time Interval: 2h : 31m : 40s	

**Step2:** Check a type to split the video file. If you choose the Time Period, and set Time Interval and Start/End Time, then the channels will be split automatically by VMS system as above. If you choose the Specific Number, and set channel number and Start/End Time, then Time Interval will be calculated and split automatically by VMS system as above.

**Step3:** After setting, click Add button, the selected video will be split to new channels to replay asynchronously on the playback layout as shown below:



**Note:** The number in the channel name of the toolbar indicates the time sequence of each window in this split playback.



## 5.4 Archive Management

## 5.4.1 Tags

All tags will be logged and listed in the Tags page of Archive Management. Click the

button, including Tags, Locked Files and Export pages, to pop up a window as shown below:

chive Ma	nagement		J		Đ			
ll Tags	~ Creat	te Time 🛛 🖌 : 🗌	2022/07/29 00:00:00	- 2022/08/04 23:5	9:59 Search		Q Search	
	Name	Device Name	Address	Start Time	End Time	Create Time	Note	Delete
	night	Camera4	192.168.201.11	2022/08/04	2022/08/04	2022/08/04		Û
Playb	oackTag_Cam	Camera4	192.168.201.11	2022/08/04	2022/08/04	2022/08/04		Ū
1	abc	Camera4	192.168.201.11	2022/08/04	2022/08/04	2022/08/04		Û
	2	Camera4	192.168.201.11	2022/08/04	2022/08/04	2022/08/04		Û
		Camera4	192.168.201.11	2022/08/04	2022/08/04	2022/08/04		Ū
Playb	backTag_Cam	Camera4	192.168.201.11	2022/08/04	2022/08/04	2022/08/04		Ū
Playb	oackTag_Cam	Camera4	192.168.201.11	2022/08/04	2022/08/04	2022/08/04		Û
Playb	oackTag_Cam	Camera4	192.168.201.11	2022/08/04	2022/08/04	2022/08/04		Û
l ta	ake a break	Camera3	192.168.201.11	2022/08/03	2022/08/03	2022/08/03		Ū
		PTZ	192.168.67.200	2022/08/03	2022/08/03	2022/08/03		Ū
lected: 0/	/10							

User can edit the tag name, delete or export for the selected tags. If user want to export the selected tag video files, more details can refer to the Export (page 267).

### 5.4.2 Locked Files

The video files which user locked will be logged and listed as shown below. Once enable the Storage Recycle of General page of Server Settings and the video is locked. The locked video files won't be automatically deleted even if the storage disk of VMS is full.

Archiv	e Management		Ų	Ē	Ð			ο×
Lock	Duration 🖌 :	2022/07/29 00:00:00 -	2022/08/04 23:59:59	Search R			<b>Q</b> Search	
	Device Name	Address	Start Time	End Time	Locked File Size	Occupied Space	Note	UnLock
	Camera3	192.168.201.11	2022/08/03	2022/08/03	120.91MB	1.00GB	personal issues	<b>e</b>
	PTZ	192.168.67.200	2022/08/03	2022/08/03	897.50KB	1.00GB		ô
Selecte	ed: 0/2						Unlock	

If you want to export the selected locked files, please refer to Export (page 267) for more details.

## 5.4.3 Export

The Export allows user to customize some basic or advanced settings for selected files which will be exported. The page is as below:

Archive Manageme	ent		Ņ	••			
🕸 General		Click here to add different ove	rlays				
Export Name	Export a	t 20220804_155118		1.000	the works	-	-
Export Destination		amData\Milesight VMS Er	terprise\Client\ 🖿				
Video Format	Free disk on						
Export Content	Video ar	id Audio					
				8/2022 15:			
Device N		Address 192.168.67.200	Type Custom	Start Time (08/04 15:11:18	End Time 2022/08/04 15:50:51		Status
Selected: 0/1							Start Export

Export steps are listed as below:

**Step1:** Select video which will be exported. You can select video through two ways:

(1) Select the files in the Tags or Locked Files page of the Archive Management window

and click Export button.

(2) Select a period of time on the timeline and select the Export Video option. Then the selected video files will be listed in the bottom of Export Setting page as above.

**Step2:** Click Start Export button to directly export selected files, and you can click button to check task exporting situation as below. For more details about Client Files Management, you can see the table of User Interface Introduction (page 31).

Client Files Management — X				
	Start All Stop All Clean U Clean U		Q   Sea	rch
Downloading	File	Device	Progress	Operation
(1)	<ul> <li>Export at 20220804_155118 (1 Item)</li> </ul>			II 🗅 🖥
$\bigcirc$	PTZ_192.168.67.200	PTZ_192.168.67.200 192.168.67.200	2.73%	II 🗅 🖥
Completed <sup>(8)</sup>				

In addition, before starting exporting, you can also click 🖻 button to half split the time of

video file, or click + button in the Archive Management window to set the exported file. Export settings include General, Text OSD, Image OSD, Timestamp, Transcoding and Privacy Mask. Each setting page is as below:

#### • General

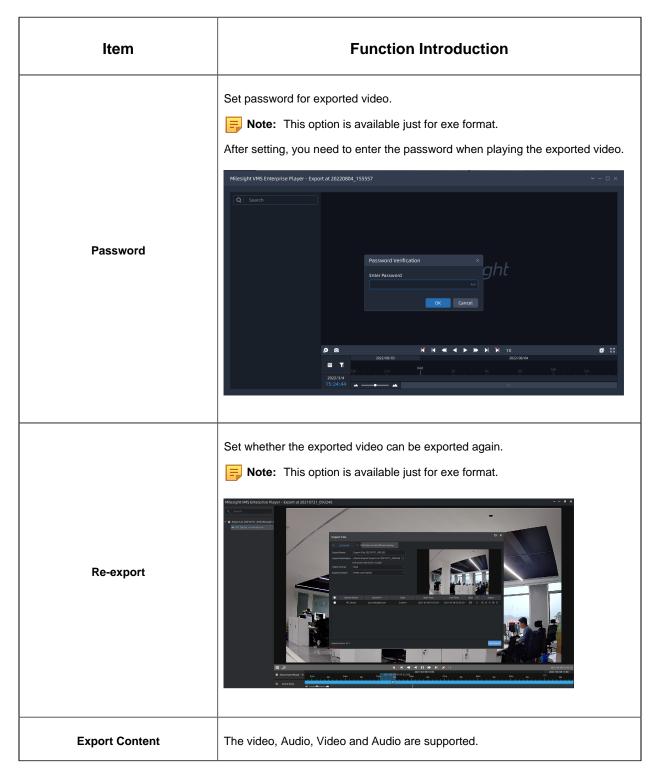
The page is as below:

Export Name	Export at 20201208_094508	
Export Destination	C:\ProgramData\Milesight VMS Enterprise\C [	כ
	Free disk on the driver:25.13GB	
Video Format	mp4	~
Export Content	Video and Audio	~

The meanings of the items can be referred to the table below:

Table 53.

ltem	Function Introduction	
	Name the exported f	ïle name as shown below:
	Export Name	fisheye
	Export Destination	C:\ProgramData\Milesight VMS Enterprise\C 🗅
		Free disk on the driver:24.85GB
	Video Format	mp4 ~
	Export Content	Video and Audio 🗸
Export Name		
		ns and finishing the export of video file, you can see the I files name as shown below in the local storage.
	Export at 2020120	7_155024
	Export at 2020120	-
	Export at 2020120	
	Export at 20201208_143951	
	<b>fisheye</b>	
Export Destination	Click button to select storage path of exported files.	
Video Format	The avi, mp4, exe, mkv, and asf formats are supported.	



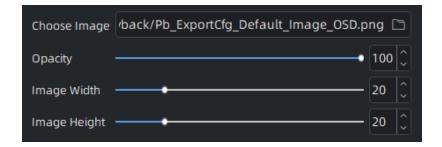
### Text OSD

Text to Show	234	
Text Color	Blue	~
Area Width	•	100 🗘
Font Size	11	

### Table 54.

ltem	Function Introduction
Text to Show	After setting the items, you can see the real-time added text information showed on the thumbnail window as below:
Text Color	Select color for added text, including White, Black, Blue, Yellow, Green and Brown.
Area Width	Adjust area width of text show from 100 to 1920
Front Size	Adjust Front Size from 40 to 400

Image OSD



The meanings of the items can be referred to the table below:

### Table 55.

ltem	Function Introduction
	You can choose image saved in local storage to be added to the video file. After setting the items, you can see the customized image as shown below on the thumbnail.
Choose Image	Archive Management       Image OSD X +         Choice Image (Memp //b _stypict(g)_Default_Image_OSD png )       000         Opacky       000         Image Height       10         Image Height       10         Device Mane       Address         Vetwork Camera       192/46.69107         Custom       2022/03/03 13:48:54         Network Camera       192/46.69107         Selectel Items 0/1       0
Opacity	Choose opacity of image added in the video from 100 to 1920.
Image Width	Adjust width of image added in the video from 0-100.
Image Height	Adjust height of image added in the video from 0-100.

### Timestamp

Date Format	YYYY-MM-DD	~
Time Format	hh:mm:ss	~
Font Color	White	•
Font Size	50	
Including Timezone		

The meanings of the items can be referred to the table below:

Table 56.

ltem	Function Introduction
Date Format	Date format, including YYYY-MM-DD, MM/DD/YYYY and DD/MM/YYYY. After setting the items, you can see the customized timestamp as shown below on the thumbnail.
Time Format	Time format, including hh:mm:ss and hh:mm:ss AP.
Font Color	The White, Black, Blue, Yellow, Green and Brown are available.
Font Size	Adjust size of font from 10-400.
Including Timezone	Check the checkbox to make the display information include timezone.

Transcoding

Timelapse page:

Transcoding Type	Timelapse	~
Initial Length	7s	
Speed Up to	1X	
Exported Length	7 🗘 Sec	~

Reduce Data Size page:

Transcoding Type	Reduce Data Size	~
Frame Size	Original	•
Bit Rate	Original	•
Frame Rate	Original	~

The meanings of the items can be referred to the table below:

### Table 57.

Item	Function Introduction
Transcoding Type	Timelapse and Reduce Data Size are available.
Initial Length	Initial time length of the exported video. This option is available when choosing Timelapse as Transcoding type.
Speed Up to	Set play speed of the exported video.
Exported Length	The Exported Length varies with the Speed Up to of the exported video, and the unit of Exported Length includes second and minute.
Frame Size	Frame size of the exported video, including Original, 704*576, 352*288 and 320*176. This option is available when choosing Reduce Data Size as Transcoding type.
Bit Rate	Bit Rate of the exported video, including Original, 16kbps, 32kbps, 64kbps, 128kbps, 256kbps, 512kbps, 1024kbps and 2048kbps.

ltem	Function Introduction
Frame Rate	Frame Rate of the exported video, including Original and these options from 1-25fps.

Privacy Mask

	Up to 8 masks can be set.	
Mask Type	White	~
Clear Masks	Clear All	

The meanings of the items can be referred to the table below:

### Table 58.

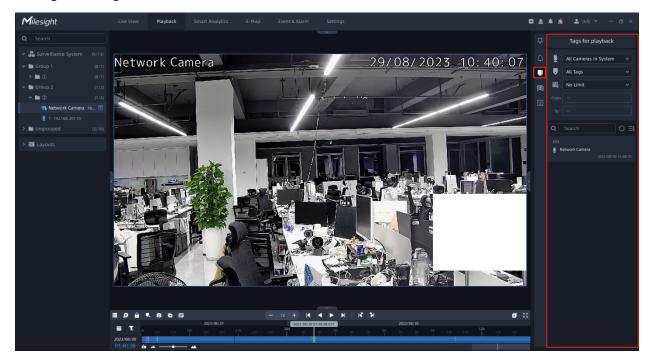
ltem	Function Introduction
Mask Type	Set colors of privacy masks, including White, Black, Blue, Yellow, Green and Brown. After choosing the mask type, you can drag left key of mouse to draw the mask area on the thumbnail as below:
Clear Masks	Click the Export button to clear all masks.

## 5.5 Right Panel of Playback

There are Notifications and Tags for playback. The Notifications of VMS client is public part, for more details, you can refer to <u>Notification (page 229)</u>.

## 5.5.1 Tags for playback

All added tags will be displayed on the panel and you can double click the tags to view the playback video. If there are too many tags on the panel, you can search desired tags through filtering conditions as below:



The meanings of the icon of the page can refer to the table below:

### Table 59.

ltem	Function Introduction
All Cameras in System      Source Cameras	All Cameras in System: Select all cameras inside VMS system. All Cameras in Viewing: Select all cameras of the current playback window. Selected Cameras: Select selected cameras in the current playback window.

Item	Function Introduction				
Call Tags	<ul> <li>All Tags: All types of tags.</li> <li>Live Tags: Tag files added in the live view window.</li> <li>Playback Tags: Tag files added in the playback window.</li> <li>Event Tags: Tag files added by event trigger.</li> </ul>				
廊 Customize  V	No limit, Last Day, Last Week, Last Month and Customize are available.				
S	Refresh the results.				
<b>E</b> Sort Button	Choose sort way of tag video files in the list as shown below: The default Tag files list are ordered by Tag Time and Descend. Order By <ul> <li>Tag Start Time</li> <li>Tag Name</li> <li>Camera Name</li> <li>Create Time</li> <li>Ascend</li> <li>Descend</li> </ul>				

# Chapter 6. Smart Analytics

## 6.1 ANPR

## 6.1.1 ANPR Watch List

Add license plates to this interface. After enabling license plate recognition, VMS will automatically receive the recognition result sent by the Milesight cameras and compare it with the black and white list added in VMS.

Milesight		ck Smart Analytics	E-Map E	Event & Alarm Settings	C & # 🖄	
ANPR		ANPR Watch List				
ANPR Watch List ANPR Result Search	Group Name	Start Time	Stop Time	Search Reset		
Traffic Report Picture Storage		Plate		Group Name	Create Time	Operation
		55555555		BLACK	2023/06/29 19:35:39 2023/06/29 16:26:17	
People Counting		2333333		BLACK	2023/06/02 09:49:50	
	-	2222222		BLACK	2023/05/09 10:55:22	
		222222			2023/05/09 10:54:37	
					2023/04/27 20:57:39	
Retrieve		SCP4599			2022/11/14 10:12:43	
		SCL2441		WHITE	2022/11/14 10:12:43	
<b>^</b>	•	MAG6294		BLACK	2022/11/14 10:12:31	
🞯 IoT		GKZ418		BLACK		
		BT58795		BLACK	2022/11/14 10:12:31	
		OXL568		BLACK	2022/11/14 10:12:31	
🛋 Face Recognition		DB16737		BLACK	2022/11/14 10:12:31	
C Third-party Connect						
	Selected: 0/13				Add Export Import	Move Delete

You can choose either of the below two ways to add license plates.

### (1) Add License Plate One by One

**Step1:** Click Add button to pop up a Add Plate window as below:

Add			×
*License P	late		
Group Nan	ne		
No Item :	Selected		
	Add and New	Add	Cancel

Step2: Input license plate and choose a group for the license plate, and click Add button;

Step3: Repeat the Step1-2 to add other license plates manually.

### (2) Batch Import License Plate

**Step1:** Click Import button to pop up a window as shown below:

Import Groups	×
File Path	
Template:	
Download	
	Canad
Upload	Cancel

Step2: The imported file must be filled in according to the specified format. You can

click Download to download the template. After filling in, click button to import a plates file, then click button.

### Note:

- 1. The default form of imported or exported license plates file is csv.
- 2. A license plate can't be repeatedly add to the same type of plate list.
- 3. Maximum quantity of license plates added in the list is 10000.

The meanings of the parameters in the interface can be referred to the table below:

Table 60.

Parameter	Function Introduction
Search	Input the group name and select Start Time and End Time, click the "Search" button, the corresponding license plates will be displayed in the list below.
Add	Enter the license plate and choose a group for the license plate, click the "Add" button, the license plate will be added successfully.
Export	Click the "Export List" button to export the license plates in the current list to a csv form locally.
Import	You can add a csv form with the license plate you want to add, then click button to import the form to this interface. And click the "Upload" button, the license plates will be added successfully.
Move	Select the camera, click the "move" button to move it to the corresponding group.
Delete	Click the "Delete" button to delete all the selected license plates in the current list.

### License Plate Group

Add License Plate Group to this interface, including Manual Group and Automatic Group. Users can manually add the license plates to the group, or automatically group the license plate according to the set rules. In addition, users can also set Valid Time for the group to meet different requirements, which greatly improves the user experience.

<b>M</b> ilesight	Live View Playback	Smart Analytics	E-Map	Event & Alarm	Settings	🖬 🕹 单 🖄	💄 july 🖌 🚽 🖉 🗙
ANPR	License Plate Group A	NPR Watch List					
ANPR Watch List ANPR Result Search Traffic Report Picture Storage	Group Name Input group name	Start Time Plate	Stop Time		Search Reset Group Name No data		Q   License Plate Search Operation
💮 People Counting							
Retrieve							
lot							
E Face Recognition							
	Selected: 0/0					Add Export Import	Move Delete

### (1) Add License Plate Group One by One

**Step1:** click dutton to pop up a Add Group window as below:

Add	×
*Group Name	∗Group Type ① Manual ✓
Plate Type	∗Valid Time
None ~	Always 🗸
*Status 💽	
	Add Cancel

**Step2:** Input Group Name, and select Group Type, Plate Type and Valid Time for this group. Then click Add button.

The meanings of the parameters in this window can be referred to the table below: **Table 61.** 

-

Parameter	Function Introduction	
Group Type	<ul> <li>Manual and Automatic are available for this option.</li> <li>Manual: Manual group can add, edit and delete the license plate in the group manually.</li> <li>Automatic: Automatic group cam only set rules to update license plates automatically, but cannot edit or delete license plates manually.</li> </ul>	
Plate Type	Black List and White List are available for this option.	

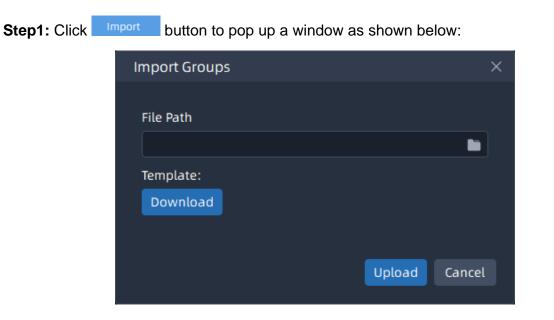
-

Г

Parameter	Function	Introduction
Valid Time	Function         Always, Custom and Cycle are availated always: The group will always take effectives         Always: The group will always take effectives         Custom: Users can customize the effective         Add         • Group Name         • Start Time         2022/08/03 00:00:00         • Start Time         2022/08/03 00:00:00         • Status         • Status         • Status         • Status         • Schedule         • Schedule         • Schedule         • Status         • Status	able for this option. Tect under this option. Tective time of the group. ************************************
Status	Click this option to enable or disable th	Add Cancel

**Step3:**Repeat the Step1-2 to add other groups manually.

### (2) Batch Import License Plate Group



Step2: The imported file must be filled in according to the specified format. You can click

<sup>Download</sup> to download the template. After filling in, click <sup>□</sup> button to import a plates file, then click <sup>Upload</sup> button.

**Note:** The default form of imported or exported license plates file is csv.

The meanings of the parameters in the interface can be referred to the table below:

Table 62.

Parameter	Function Introduction						
Search	Select Group Type, Plate Type and Status, then input the group name, click the "Search" button, the corresponding groups will be displayed in the list below.						
0	Check the basic information of this group.						
2	Modify the group information.						
Ū	Delete the group.						

Parameter	Function Introduction							
ê	If you add a group as an automatic type, you can click this button to set the this group, and then all license plates that meet the rules will be automatic to this group.          Rule Setting         Group Name         -Group Name         -Auto Update         test         Rule Setting         No.         Rules         Edit         Delete         1         alarm action    Please define license plate format requirements/\$* "@" "? " "**are wildcard characters,content of than the input wildcard is the exact match. \$ : One Arbitrary Letter         @ : One Arbitrary Digit         ? : One Unlimited Type	cally added						
Add	Enter the group name and select Group Type, Plate Type and Valid Time "Add" button, the group will be added successfully.	, click the						
Export	Click the "Export List" button to export the group in the current list to a cs locally.	v form						
Import	You can add a csv form with the group you want to add, then click import the form to this interface. And click the "Upload" button, the group added successfully.	will be						
Delete	Click the "Delete" button to delete all the selected groups in the current lis	st.						

## 6.1.2 ANPR Result Search

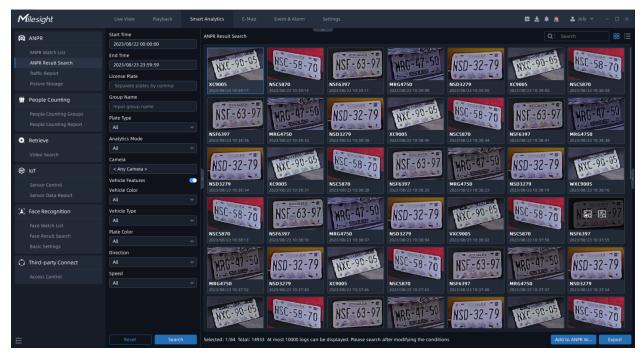
The real-time detection results will be displayed on the center of Smart Search page, including License Plate, Plate Type, Capture Time, live screenshot, camera name and IP.

### How to search the license plate recognition results?

**Step1:** Select Time, License Plate, Group Name, Plate Type, Analytics Mode, Vehicle Features, etc., and then check the corresponding camera. The related license plate

information will be displayed as below by clicking button;

Click Button to show Thumbnail Mode as below:



Click  $\equiv$  button to switch to List Mode as below:

<b>M</b> ilesight	Live View Playback 9	Smart /	Analyt	ics	E-Map Event &	& Alarm Settings				🖸 🛃 🌲 🕍 🚨 july 🗸 -	- 0 ×
ANPR	Start Time		ANPR F	lesult	Search						88 :
	2023/08/22 00:00:00			No	License Plate Picture	License Plate	Plate Type	Capture Time	Camera	Operation	
	End Time				(COLORED OF	XC9005		2023/08/23 10:39:17	LPR 246(192.168.69.246)	60 E	
ANPR Result Search	2023/08/23 23:59:59				NSC -58-20	NSC5870		2023/08/23 10:39:14	LPR 246(192.168.69.246)		
Traffic Report	License Plate				NSF - 63-97	NSF6397		2023/08/23 10:39:11	LPR 246(192.168.69.246)		
				4	HRG-07-50	MRG4750		2023/08/23 10:39:08	LPR 246(192.168.69.246)		
People Counting	Group Name				NSD 32-79	NSD3279		2023/08/23 10:39:05	LPR 246(192.168.69.246)		
T People Counting					(PEROPERON)	XC9005		2023/08/23 10:39:02	LPR 246(192.168.69.246)		
	Plate Type				NSL SB-70	NSC5870		2023/08/23 10:38:58	LPR 246(192.168.69.246)		
					NSF - 63 - 97	NSF6397		2023/08/23 10:38:56	LPR 246(192.168.69.246)		
-					MBG-07-50	MRG4750		2023/08/23 10:38:53	LPR 246(192.168.69.246)		
Retrieve	Analytics Mode				NSD-32-79	N5D3279		2023/08/23 10:38:50	LPR 246(192.168.69.246)	20 20 20 20	
					Porote State	XC9005		2023/08/23 10:38:46	LPR 246(192.168.69.246)		
	Camera				NSC - 58-20	NSC5870		2023/08/23 10:38:44	LPR 246(192.168.69.246)	20 20 20 20	
🞯 IoT	< Any Camera >				NSF -63-97	NSE6397		2023/08/23 10:38:41	LPR 246(192.168.69.246)	R 6	
Sensor Control	Vehicle Features	•		14	HRG-47-50	MRG4750		2023/08/23 10:38:38	LPR 246(192.168.69.246)	10 Ed	
Sensor Data Report	Vehicle Color				NSD-32-79	NSD3279		2023/08/23 10:38:34	LPR 246(192.168.69.246)		
					HALC SOLON	XC9005		2023/08/23 10:38:31	LPR 246(192.168.69.246)	10 Ed	
Face Recognition	Vehicle Type				NSC 58 70	NSC5870		2023/08/23 10:38:28	LPR 246(192.168.69.246)		
Face Watch List	All			18	NSE - 63-97	NSF6397		2023/08/23 10:38:25	LPR 246(192.168.69.246)	10 Ed	
	Plate Color				HRG-47-50	MRG4750		2023/08/23 10:38:23	LPR 246(192.168.69.246)		
				20	NSD-32-79	NSD3279		2023/08/23 10:38:19	LPR 246(192.168.69.246)	10 III III III III III III III III III I	
	Direction				NSD-32-79	WXC9005		2023/08/23 10:38:19	LPR 246(192.168.69.246)	ing ing	
Third-party Connect				21	NEC-58-70	NSC5870		2023/08/23 10:38:13	LPR 246(192.168.69.246)		
	Speed				NSE 63 97					ing ing	
						N5F6397		2023/08/23 10:38:10	LPR 246(192.168.69.246)	56 Ed	
	- m				MRG-47-50	MRG4750		2023/08/23 10:38:07	LPR 246(192.168.69.246)	ing for	
					NSD 32-79	N5D3279		2023/08/23 10:38:04	LPR 246(192.168.69.246)		
					Constant and	VXC9005		2023/08/23 10:38:02	LPR 246(192.168.69.246)		
					NSC 58-70	NSC5870		2023/08/23 10:37:58	LPR 246(192.168.69.246)		
					NSF - 63-97	NSF6397		2023/08/23 10:37:55	LPR 246(192.168.69.246)		
	Reset Search	s	Selecte	d: 0/8	4 Total: 14933 At most 10	0000 logs can be displayed	. Please search after n	nodifying the conditions		Add to ANPR W	

- The icon in the left bottom of thumbnail photo means the license plate is in the Black List, while the icon means the license plate is in the White List. • Both the recognition results of Camera Analytics and VMS analytics can be searched

and managed in this interface at the same time. The 🛄 icon means that the recognition result is from VMS analytics.



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	ANPR Preview 💽
¢	Q Search
٢	Network Camera 14:25:55
C	30 302
A	
	SCH6732 🔝
	Network Camera 14:25:55
	SCH6732 🔼
	Network Camera 14:25:54
	SCH-6732
	Network Camera 14:25:54
	SCH6732 📕

**Step2:** Click the icon in the upper right corner of the result, it will display the entire snapshot including the detection frame as shown below:



And click the sicon in the upper right corner of the result, you can check the recording of the event and the detailed information of the detection result as shown below. You can also add tags for the video or play the video in the playback interface with one click.

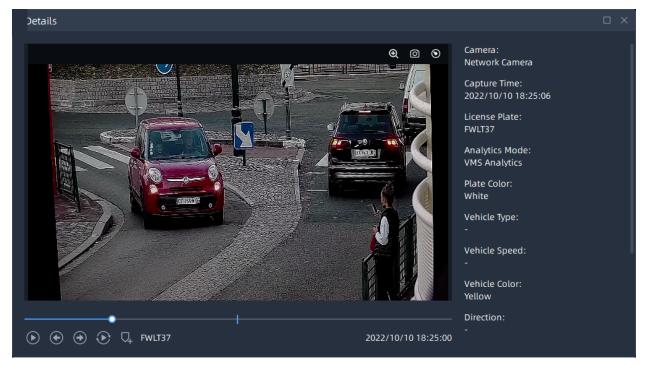
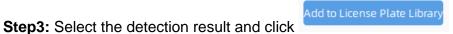


plate to the license plate group.



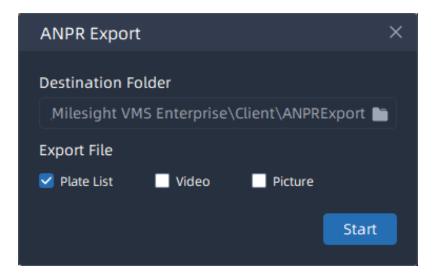
button to add the license

No. License Plate Picture	License Plate	Plate Type	Capture Time	Camera	Operation
2 1 (state)	OP5450		2022/08/05 11:50:34	Network	
2 KBHE	KBH8421		2022/08/05 11:50:31	Network	
3 REAR	KZP5655		2022/08/05 11:50:28	Network	<b>a</b> 5
4 INZPE	ZPX1526		2022/08/05 11:50:25	Network	
5 TZKH	ZKH2665		2022/08/05 11:50:21	Network	
6 TREES	PPE7975		2022/08/05 11:50:14	Network	
Add			2022/08/05 11:50:10	Network	er er
Group Name			2022/08/05 11:50:10	Network	
No Item Selected			2022/08/05 11:50:03	Network	
			2022/08/05 11:49:52	Network	
			2022/08/05 11:49:48	Network	
			2022/08/05 11:49:45	Network	
	Add Cancel		2022/08/05 11:49:41	Network	
			2022/08/05 11:49:38	Network	
15	XNK5429		2022/08/05 11:49:35	Network	<b>1</b> 2 <b>1</b> 2
16	KBH6211	-	2022/08/05 11:49:30	Network	
17 17	KBK6880		2022/08/05 11:49:28	Network	
18	TIZ8090		2022/08/05 11:49:24	Network	
19 PMKE	PMK8435		2022/08/05 1:49:20	Network	<b>E</b> a <b>E</b> a
20 REHE	КВН3569		2022/08/05 11:49:15	Network	
21	YTB2118		2022/08/05 11:49:10	Network	Ed Ed
22	KBM112		2022/08/05 11:49:02	Network	
23 (KBK	KBK2404		2022/08/05 11:49:01	Network	
24	KBM11		2022/08/05 11:48:48	Network	
25 KBKE	KBK2404		2022/08/05 11:48:47	Network	EG EG
26 HK	IHK8992		2022/08/05 11:48:38	Network	
27 KBPS	KBP9738		2022/08/05 11:48:31	Network	
🔠 📃 Selected: 1/45 Total: 45					Add to License Export

**Step4:** Select the detection result and click **Export** button to export the videos to the

destination folder. After setting the export file destination, type and format, click

button to start the file backup. You can click button to check task export situation as below. For more details about Client Files Management, you can see the table of <u>User</u> Interface Introduction (page 31).



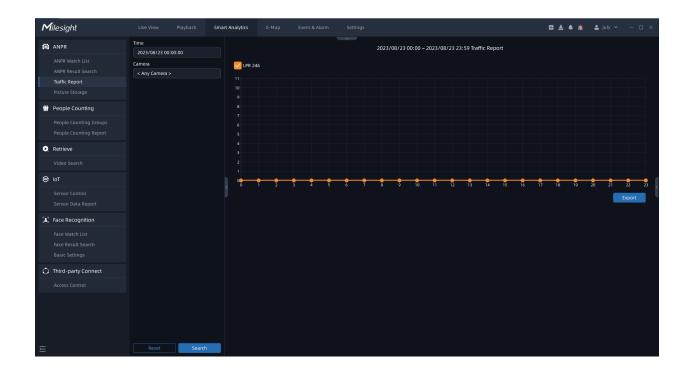
**Note:** The backup file of Plate List is csv format.

#### 6.1.3 Traffic Report

The results of Traffic Detection during the enabling period will be displayed on the "Traffic Report" interface.

**Step1:** Select Start Time, then select the corresponding camera.

**Step2:** Click the button, it will automatically count the data for the day from the start time and generate the corresponding report;



**Step3:** Click the button to pop up the Export window as shown below, and you can choose File Format to export the report to local.

Export	×
Export Name	
Cross Line People Counting_20220804184634	
Destination Folder	
C:/Users/Lix/Desktop	
File Format	
🗌 csv 📄 png	
Export Cance	l

### 6.1.4 Picture Storage

Click Click

- Auto: The ANPR pictures will be overwritten when storage space is insufficient.
- Customize: Customize the storage time according to the requirements.

The page shows as below:

<b>M</b> ile:	sight			Smart Analytics	
🖨 AN	PR	Storage Settir	ngs		
AN	PR Watch List PR Result Search ffic Report	ANPR Picture Enable ANPR Picture	e Storage e Minimum Reter	ntion Time ①	
Pict	ture Storage	Auto		stomize	
🎬 Peo	ople Counting	ANPR Pictur	e Maximum Rete O Cu:	ntion Time (j) stomize	
	ople Counting Groups ople Counting Report				Apply

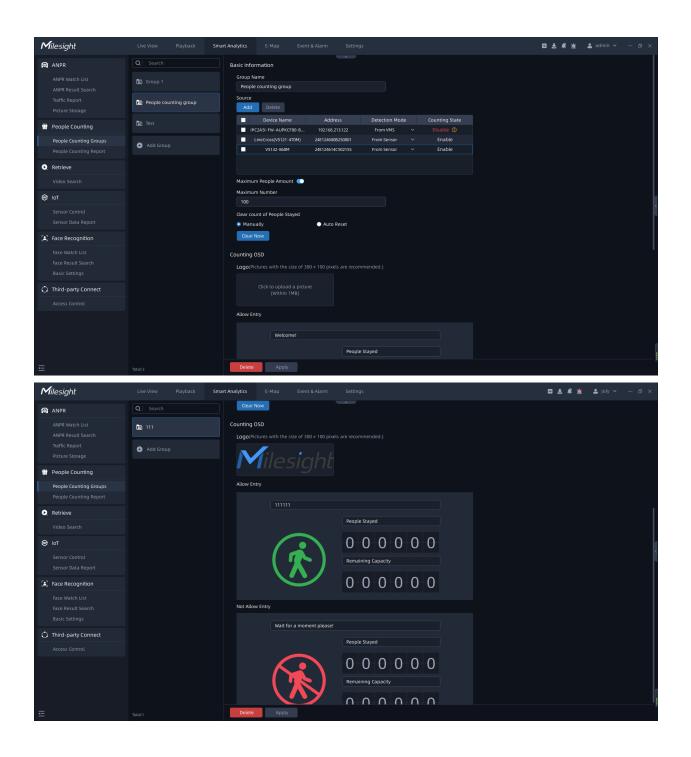
## 6.2 VMS-end People Counting

VMS-end People Counting including Cross Line People Counting, Regional People Counting, People Counting Groups and People Counting Reports. Users only need to add the Video Analytics Server and video streams to the VMS system, then the People Counting function can be enabled on the VMS side to meet various monitoring scenarios.

Before setting, you need to confirm the related items refer to Analytics Settings (page 170).

### 6.2.1 People Counting Groups

Users can add multiple devices, including cameras and Milesight IoT sensors to one group that can count the total number of people entering and exiting in this group. This function provides a smart crowd solution to improve monitoring efficiency.



**Step1:** Click <sup>①</sup> Add Group</sup> to add a new group and input the group name.

Step2: Click the "Add" button to add the cameras to this group.

**Note:** Detection from the VMS side or the camera side is available.

**Step3:** Enable Maximum People Amount. Users can set the maximum number of people, when the number of people staying in the group exceeds the set value, it will trigger the corresponding alarm.

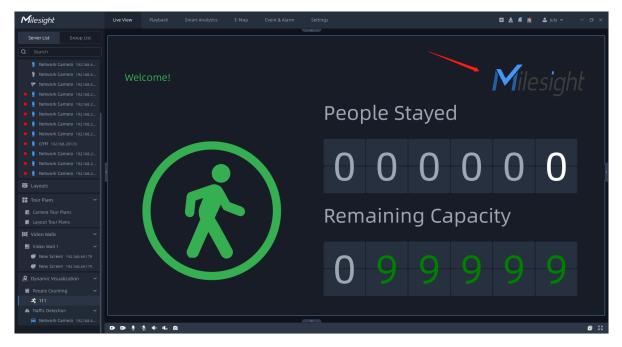
Step4: Users can choose to manually or automatically clear the Count of People Stayed.

**Step5:** Set the Counting OSD panel.

• Logo:Upload a customized image as a logo in the People Counting Groups interface to meet the logo customization needs of customers.

**Note:** Pictures with the size of 300 x 100 pixels are recommended.

The effect of the live view interface is shown below:



• Allow Entry: Set the prompt when Green Light is on in the People Counting Live View

interface. The default prompt is "Welcome!!!".

• Not Allow Entry: Set the prompt when Red Light is on in the People Counting Live View interface. The default prompt is "Please wait till the green light turns on.".

**Step6:** Click **Apply** to apply the settings. Then the real-time count results of all cameras within the set group, as well as the light status indicating whether the current number of people staying reaches the set maximum number of people staying, will be displayed in the <u>People Counting (page 219)</u> interface of the Live view.

### 6.2.2 People Counting Report

The results during the enabling period will be displayed on the "People Counting Report" interface.

#### Group People Counting

**Step1:** Select Compare Mode as Longitudinal or Horizontal Mode.

- Longitudinal: A report showing different data within a group.
- Horizontal: A report showing the same data in different groups.

**Step2:** Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report;

**Step3:** Select Start Time, then select the corresponding groups.

**Note:** For the longitudinal mode, you can only select one group. For the horizontal mode, you can select up to 10 groups as needed.

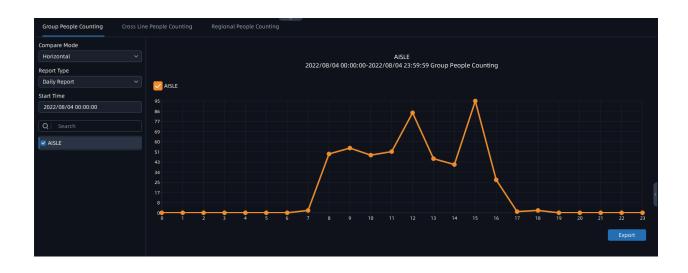
**Step4:** If the Compare Mode is selected as Horizontal Mode, you also need to select the Statistics Type including In, Out, Capacity and Sum.

**Step5:** Click the button, it will automatically count the data for the day/ week/ month/ year (based on the report type selected by the user) from the start time and generate the corresponding report.

Longitudinal:



Horizontal:



**Step4:** Click the button to pop up the Export window as shown below, and you can choose File Format to export the report to local.

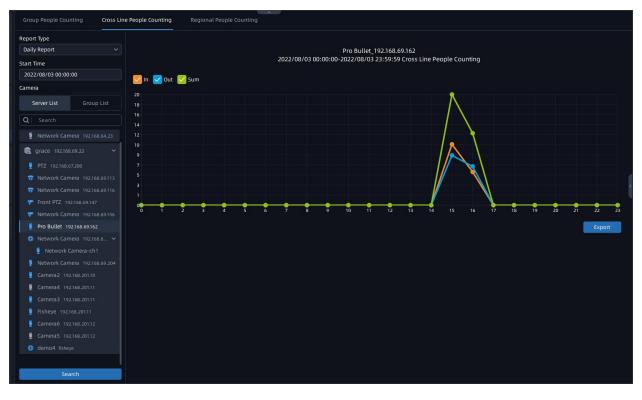
Export	×
Export Name	
Group People Counting_20220804184537	
Destination Folder	
C:/Users/Lix/Desktop	
File Format	
🗖 csv 📄 png	
Export Cance	el

**Cross Line People Counting** 

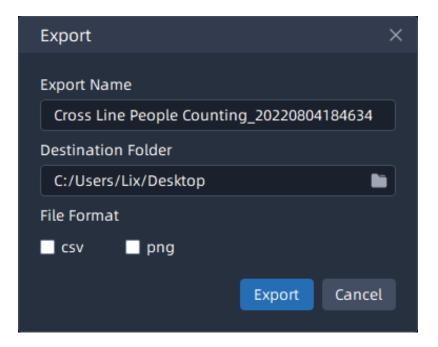
**Step1:** Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report;

Step2: Select Start Time, then select the corresponding camera.

**Step3:** Click the button, it will automatically count the data for the day/ week/ month/ year (based on the report type selected by the user) from the start time and generate the corresponding report;



**Step4:** Click the button to pop up the Export window as shown below, and you can choose File Format to export the report to local.



#### **Regional People Counting**

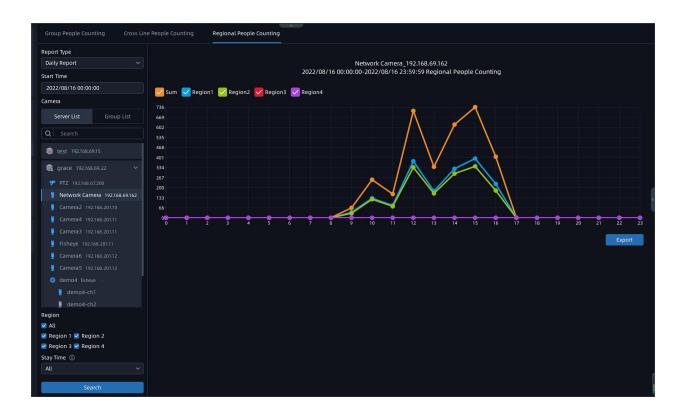
**Step1:** Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report;

**Step2:** Select Start Time, then select the corresponding camera.

**Step3:**check the check box to select the regions as needed.

**Step4:** Select the Stay Time including All, More Than and Less Than and set the time of more than/less than.

**Step5:** Click the button, it will automatically count the data for the day/ week/ month/ year (based on the report type selected by the user) from the start time and generate the corresponding report;



**Step6:**Click the button to pop up the Export window as shown below, and you can choose File Format to export the report to local.

Export	×
Export Name	
Regional People Counting_20220804184920	
Destination Folder	
C:/Users/Lix/Desktop	
File Format	
csv png	
Export Canc	el

## 6.3 Retrieve

### 6.3.1 Video Search

Users can search and back up recording files according to different recording type, stream type, time, file type and event type, which is convenient for users to manage recording files and greatly improves user experience.

Milesight	Live View Playback	Smar	rt Analytics	E-Map	Event & Alarm	Settings				🛛 🕹 🔺 🖄	💄 july 🖌 🚽 🗗 🗙
ANPR	Start Time		Video Searc								
ANPR Watch List	2023/08/30 00:00:00				Address						Operation
ANPR Result Search	End Time			Network Camera	192.168.69.222	2023/08/30 15:04:48		Primary Stream	245MB	July's System	
Traffic Report	2023/08/30 23:59:59			Network Camera	192.168.69.222	2023/08/30 15:00:58	2023/08/30 15:04:48	Primary Stream	115MB	July's System	
Picture Storage	Camera			Network Camera	192.168.69.247	2023/08/30 14:56:54	2023/08/30 15:12:56	Primary Stream	773MB	July's System	
	< Any Camera >					2023/08/30 14:52:43	2023/08/30 15:12:55	Primary Stream	610MB	July's System	
💮 People Counting	Recording Type			Network Camera	192.168.69.247	2023/08/30 14:35:40	2023/08/30 14:56:54	Primary Stream	1023MB	July's System	
						2023/08/30 14:29:29		Primary Stream	702MB	July's System	
	Stream Type				192.168.201.10	2023/08/30 14:29:29	2023/08/30 14:38:01	Primary Stream	258MB	July's System	
				Network Camera	192.168.69.247		2023/08/30 14:35:40	Primary Stream	297MB	July's System	
Retrieve	File Mark				192.168.201.10	2023/08/30 14:18:45	2023/08/30 14:29:13	Primary Stream	316MB	July's System	
					192.168.201.10			Primary Stream	321MB	July's System	
Video Search	Event Type		- P	Network Camera	192.168.69.247	2023/08/30 14:14:10	2023/08/30 14:29:14	Primary Stream	726MB	July's System	
🞯 IoT				Network Camera	192.168.69.247			Primary Stream	1023MB	July's System	
			<		192.168.201.10	2023/08/30 13:44:51	2023/08/30 14:18:45	Primary Stream	1023MB	July's System	
					192.168.201.10	2023/08/30 13:44:41	2023/08/30 14:18:35	Primary Stream	1023MB	July's System	
			<b>—</b>	Network Camera	192.168.69.247	2023/08/30 13:31:40	2023/08/30 13:52:55	Primary Stream	1023MB	July's System	
Face Recognition						2023/08/30 13:10:58	2023/08/30 13:44:51	Primary Stream	1023MB	July's System	
					192.168.201.10	2023/08/30 13:10:48	2023/08/30 13:44:41	Primary Stream	1023MB	July's System	
				Network Camera	192.168.69.247		2023/08/30 13:31:40	Primary Stream	1023MB	July's System	
			<b>•</b>	Network Camera	192.168.69.247	2023/08/30 12:49:11	2023/08/30 13:10:25	Primary Stream	1023MB	July's System	
					192.168.201.10	2023/08/30 12:37:05	2023/08/30 13:10:58	Primary Stream	1023MB	July's System	
					192.168.201.10	2023/08/30 12:36:54	2023/08/30 13:10:48	Primary Stream	1023MB	July's System	8
			- · ·	Network Camera	192.168.69.247			Primary Stream	1023MB	July's System	
				Network Camera	192.168.69.247	2023/08/30 12:06:43	2023/08/30 12:27:57	Primary Stream	1023MB	July's System	
					192.168.201.10			Primary Stream	1023MB	July's System	
					192.168.201.10	2023/08/30 12:03:00	2023/08/30 12:36:54	Primary Stream	1023MB	July's System	
				Network Camera	192.168.69.247		2023/08/30 12:06:43	Primary Stream	1023MB	July's System	
					192.168.201.10	2023/08/30 11:29:17	2023/08/30 12:03:10	Primary Stream	1023MB	July's System	
					192.168.201.10	2023/08/30 11:29:06	2023/08/30 12:03:00	Primary Stream	1023MB	July's System	
L1	Reset Search		Selected File	es:07106							Export

**Step1:** Check the corresponding camera, and select Recording Type, Stream Type, Start Time, End Time, File Mark and Event Type, then click Search button to search for recording files.

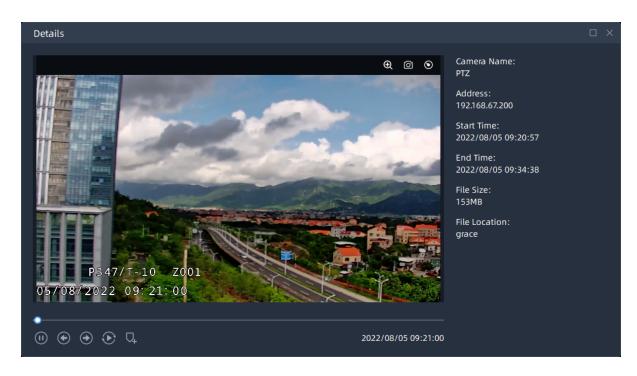
Video Management System Enterprise User Manual | 6 - Smart Analytics | 304

Start Time	
2022/10/14 00:00:00	
End Time	
2022/10/14 23:59:59	
Camera	
< Any Camera >	
Recording Type	
All	~
Stream Type	
All	~
File Mark	
All	~
Event Type	
All	~

The recording files will be listed as shown below:

	Camera Name	Address	Start Time	End Time	Stream Type	File Size	File Location	Operation
	Network Camera	192.168.69.222	2023/08/30 15:04:48	2023/08/30 15:12:56	Primary Stream	245MB	July's System	Ed
	Network Camera	192.168.69.222	2023/08/30 15:00:58	2023/08/30 15:04:48	Primary Stream	115MB	July's System	
	Network Camera	192.168.69.247	2023/08/30 14:56:54	2023/08/30 15:12:56	Primary Stream	773MB	July's System	
		192.168.201.10	2023/08/30 14:52:43	2023/08/30 15:12:55	Primary Stream	610MB	July's System	
	Network Camera	192.168.69.247	2023/08/30 14:35:40	2023/08/30 14:56:54	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 14:29:29	2023/08/30 14:52:43	Primary Stream	702MB	July's System	
		192.168.201.10	2023/08/30 14:29:29	2023/08/30 14:38:01	Primary Stream	258MB	July's System	
	Network Camera	192.168.69.247	2023/08/30 14:29:28	2023/08/30 14:35:40	Primary Stream	297MB	July's System	
		192.168.201.10	2023/08/30 14:18:45	2023/08/30 14:29:13	Primary Stream	316MB	July's System	
		192.168.201.10	2023/08/30 14:18:35	2023/08/30 14:29:13	Primary Stream	321MB	July's System	
	Network Camera	192.168.69.247	2023/08/30 14:14:10	2023/08/30 14:29:14	Primary Stream	726MB	July's System	Ed
	Network Camera	192.168.69.247	2023/08/30 13:52:55	2023/08/30 14:14:10	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 13:44:51	2023/08/30 14:18:45	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 13:44:41	2023/08/30 14:18:35	Primary Stream	1023MB	July's System	
	Network Camera	192.168.69.247	2023/08/30 13:31:40	2023/08/30 13:52:55	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 13:10:58	2023/08/30 13:44:51	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 13:10:48	2023/08/30 13:44:41	Primary Stream	1023MB	July's System	
	Network Camera	192.168.69.247	2023/08/30 13:10:25	2023/08/30 13:31:40	Primary Stream	1023MB	July's System	
	Network Camera	192.168.69.247	2023/08/30 12:49:11	2023/08/30 13:10:25	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 12:37:05	2023/08/30 13:10:58	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 12:36:54	2023/08/30 13:10:48	Primary Stream	1023MB	July's System	
	Network Camera	192.168.69.247	2023/08/30 12:27:57	2023/08/30 12:49:11	Primary Stream	1023MB	July's System	
	Network Camera	192.168.69.247	2023/08/30 12:06:43	2023/08/30 12:27:57	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 12:03:11	2023/08/30 12:37:04	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 12:03:00	2023/08/30 12:36:54	Primary Stream	1023MB	July's System	
	Network Camera	192.168.69.247	2023/08/30 11:45:28	2023/08/30 12:06:43	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 11:29:17	2023/08/30 12:03:10	Primary Stream	1023MB	July's System	
		192.168.201.10	2023/08/30 11:29:06	2023/08/30 12:03:00	Primary Stream	1023MB	July's System	
_					- · -·			-

**Step2:** Click the Recording with detailed information as shown below. You can also add tags for the video or play the video in the playback interface with one click.



**Step3:** Check the recording files and click Export button to back up the videos to the destination folder. Users can choose to back up the videos in mp4 or avi format.

	Camera Name	Address	Start Time	End Time	St	ream Type	File Size	File Location	Operation
	Network Camera	192.168.69.156	2022/08/04 15:54:23	2022/08/04 16:14:51	Prin	nary Stream	654MB	grace	E
	PTZ	192.168.67.200	2022/08/04 15:54:23	2022/08/04 15:54:52	Prin	nary Stream	24MB	grace	
	PTZ	192.168.67.200	2022/08/04 15:53:38	2022/08/04 15:53:59	Prin	nary Stream	17MB	grace	
	Network Camera	192.168.69.204	2022/08/04 15:53:25	2022/08/04 15:54:27	Prin	nary Stream	31MB	grace	
	Network Camera	192.168.69.156	2022/08/04 15:53:04	2022/08/04 15:54:17	Prin	nary Stream	19MB	grace	
	Pro Bullet	192.168.69.162	2022/08/04 15:52:46	2022/08/04 15:54:30	Prin	nary Stream	45MB	grace	
	Network Camera	192.168.69.113	2022/08/04 15:52:35	2022/08/04 15:53:21	Prin	nary Stream	33MB	grace	
	Network Camera	192.168.69.204	2022/08/04 15:52:35	2022/08/04 15:53:29	Prin	nary Stream	27MB	grace	
	Network Camera	192.168.69.204	Video Search Export			ary Stream	20MB	grace	
	Pro Bullet	192.168.69.162				ary Stream	13MB	grace	
	PTZ	192.168.67.200	Destination Folder			ary Stream	137MB	grace	
	Network Camera	192.168.69.204		ient\VideoSearchExport		ary Stream	38MB	grace	
	Network Camera	192.168.69.204			I.8GB	ary Stream	15MB	grace	
	PTZ	192.168.67.200	Video File Format			ary Stream	27MB	grace	
	Pro Bullet	192.168.69.162	.mp4			ary Stream	47MB	grace	
	Network Camera	192.168.69.113		Sta		ary Stream	33MB	grace	
	Pro Bullet	192.168.69.162				ary Stream	14MB	grace	
	Network Camera	192.168.69.204	2022/08/04 15:48:58	2022/08/04 15:50:22	Prin	nary _ ream	42MB	grace	
	PTZ	192.168.67.200	2022/08/04 15:47:54	2022/08/04 15:49:53	Prin	nary Stream	98MB	grace	
	PTZ	192.168.67.200	2022/08/04 15:46:56	2022/08/04 15:47:51	Prin	nary Stream	41MB	grace	
	Network Camera	192.168.69.204	2022/08/04 15:46:45	2022/08/04 15:48:42	Prin	nary Stream	58MB	grace	
	Pro Bullet	192.168.69.162	2022/08/04 15:46:20	2022/08/04 15:49:14	Prin	nary Stream	80МЬ	grace	
	Network Camera	192.168.69.204	2022/08/04 15:45:38	2022/08/04 15:46:44	Prin	nary Stream	ззмв	grace	
	Network Camera	192.168.69.204	2022/08/04 15:45:16	2022/08/04 15:45:43	Prin	nary Stream	13MB	grace	
	Network Camera	192.168.69.204	2022/08/04 15:45:04	2022/08/04 15:45:16	Prin	nary Stream	6MB	grace	
	PTZ	192.168.67.200	2022/08/04 15:44:40	2022/08/04 15:46:50	Prin	nary Stream	106MB	grace	
	Network Camera	192.168.69.204	2022/08/04 15:43:59	2022/08/04 15:45:05	Prin	nary Stream	ззмв	grace	
5elected	Files:1/835								Export

## 6.4 IoT

#### 6.4.1 Sensor Control

Here users can see the status of sensors as shown in the table below, and can perform individual as well as batch control, etc.

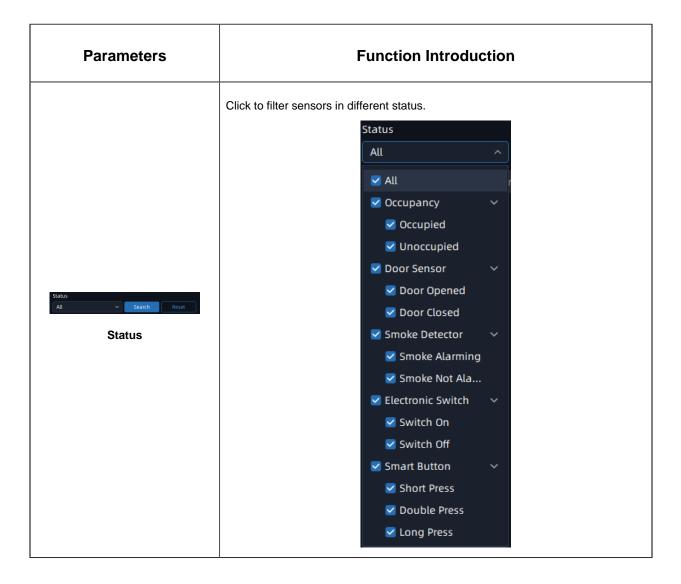
And users can add sensors and gateways on the <u>IoT Sensor Management (page 57)</u> interface.

<b>M</b> ilesight	Live View Playback Smart Analy	t <b>ics</b> E-Map Event & A			□ ± # <u>i</u>	🛓 💄 admin 🗸 — 🗗 🗙
ANPR	Sensor Control Status					
	All × Search	Reset				
	Sensor Name		Gateway Name		Latest Update Time	Operation
	8442button-WS101	24E124535B465418	Gateway1	🔓 Short Press	2023/07/24 18:28:34	
	ButtonBacon-WS101	24E124535B461031	Gateway1			
💮 People Counting	LineCross(VS121-470M)	24E124600B250801	Gateway1	🦓 3671 🦓 3869	2023/08/30 15:16:22	٥
People Counting Groups	Occupancy(VS121-868M)	24E124600D023309	Gateway3			
People Counting Report	Control - People Counting	× 124538B174546	Gateway1			
		124614C502155	Gateway3	🦧 2983 🦓 3057	2023/08/30 15:15:50	\$
Retrieve	Modify the value of people in / people out.	124757D164802	Gateway3	<b>徽</b> 2809 <b>徽</b> 2717	2023/09/30 15:16:04	0
Video Search	People In	124147B128548	Gateway1	000	2023/08/30 15:16:13	\$
video search	2983	124535B460936	Gaterra, 2			
🞯 IOT	🗹 People Out	124535015	Gateway1			
Sensor Control	3057	24756C287381	Gateway2	- mi Normal 🛞 0% 🖟 29℃		
	Reset Save Ca	A77012E4B00F9	Gateway1		2023/08/27 21:20:34	¢
		A TOTECTOOTSS	Gateway1	`≜`Normal 69°0% () 28°C ©©	2023/08/30 06:37:21	¢
Face Recognition		124146B489346	Gateway1		2023/08/30 15:16:12	\$
Face Watch List						
Face Watch List						
C Third-party Connect						
	Selected: 0/8					Batch Control

#### Table 63.

Parameters	Function Introduction
Light Control WS558	Check the status of each switch. For example, as shown in the picture, the first switch is currently on, and the other switches are off.
Cccupancy Sensor VS121	Check the current number of people detected by the sensor.

Parameters	Function Introduction					
Den Magnetic Contact WS301	Check the switch status of the door, open and close are available.					
3D TOF People Counting Sensor VS132	Check the current number of people detected by the sensor.					
AI ToF People Counting Sensor VS133	Check the current number of people detected by the sensor.  Note: The VMS only supports people counting statistics for Line 1 from VS133.					
Short Press	Check the status of the smart button, Short Press(<=3 seconds), Double Press and Long Press(>=3 seconds) are available.					
	Check the status of each switch. For example, as shown in the picture, the first switch is currently on, and the other switches are off. And the users can also switch the status of the Electronic Switch on VMS client, so as to achieve the effect of turn on or turn off.					
Wall Switch WS50X	Control - Electronic Switch × Set Switch Status  Turn On Turn Off Switch No. All Save Cancel					



### 6.4.2 Sensor Data Report

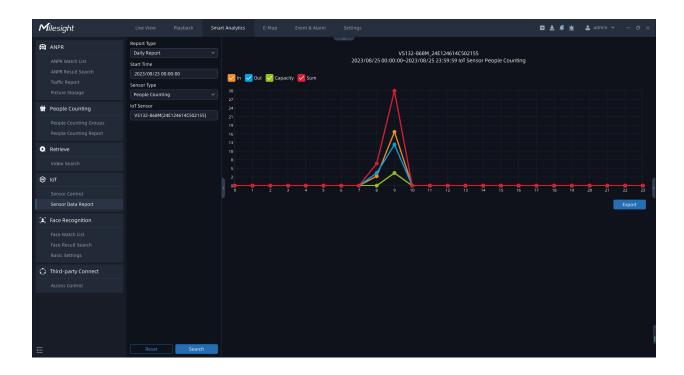
Here you can view a report on the number of people detected by each individual sensor here, including AI Workplace Counting Sensor VS121, 3D ToF People Counting Sensor VS132 and AI ToF people Counting Sensor VS133.

**Step1:** Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report;

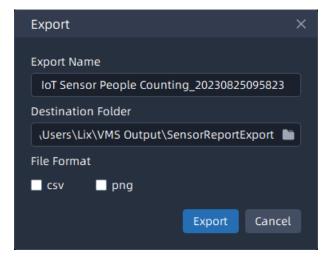
Step2: Select Start Time, then select target sensor;

Step3: Click the Search, it will automatically count the data for the day/

week/ month/ year (based on the report type selected by the user) from the start time and generate the corresponding report.



**Step4:** Click the Export to pop up the Export window as shown below, and you can choose File Format to export the report to local.



## 6.5 Face Recognition

For better face recognition applications, VMS supports importing up to 300,000 facial images for face matching and other related purposes.

### 6.5.1 Face Watch List

#### 6.5.1.1 Face Watch List

Add Face Group to this interface. Click the *Add New Group*, input the group name, then check the corresponding group members, and click the *Save* to create the group successfully.

Milesight	Live View Playback Sm	art Analytics E-Map Event & Alarm Settings	🖾 🛓 🚅 🏦 💄 july 👻 — 🗆 🗙
ANPR	Face Group Face Watch List		
		Group Information	
	VIP	Group Name Milesight	
	Test	Group Members	
💮 People Counting		< 4 Person Selected >	
	🕂 Add New Group	Save	
Retrieve			
🞯 IOT			
E Face Recognition			
Face Watch List			
🗘 Third-party Connect			

For existing groups, if you need to add/remove members, you can simply click on the group and then click the \_\_\_\_\_. If you want to delete a specific group, you can click the \_\_\_\_\_.

<b>M</b> ilesight	Live View Playback Sma	t Analytics E-Map Event & Alarm Settlings	🖾 🛓 🧳 🏦 🌲 july 🗸 — 🗆 X
ANPR	Face Group Face Watch List		
ANPR Watch List ANPR Result Search	Q   Search	Group Information Group Name	
Traffic Report Picture Storage	VIP		
People Counting	Test	Group Members < 3 Person Selected >	
People Counting Groups People Counting Report	🕀 Add New Group	Delete Apply	
Retrieve			
Video Search			
IoT			
Sensor Control Sensor Data Report			
E Face Recognition			
Face Watch List			
Face Result Search Basic Settings			
C Third-party Connect			
Access Control			
E			

#### 6.5.1.2 Face Watch List

Add the face watch list to this interface, the VMS supports importing up to 300,000 facial images for face matching and other related purposes.

<b>M</b> ilesight	Live View	Playback	Smart Analy	tics E-Map	Event & Alarm	Settings		🛛 🕹 🚅 🖄	🛓 july 👻 — 🗆 🗙
ANPR		Face Watch L	ist						
ANPR Watch List ANPR Result Search	Department							Q   Sear	ch O
Traffic Report	✓ Milesight		(0/9)	Photo	Name	Department	Person ID	Status	Operation
Picture Storage			(0/0) (3/3)		Amber	Milesight-Product Department		Modeled	
People Counting People Counting Groups People Counting Report			(0/0) (5/5)	<b>A</b>		Milesight-Product Department		Modeled	
Retrieve			•		Ning	Milesight-Product Department		Modeled	
Video Search			•		Jane	Milesight-Test		Modeled	
Sensor Control Sensor Data Report			•		Rachel	Milesight-Test		Modeled	
Face Recognition			•	<u>@</u>	jeff	Milesight-Test	123456	Modeled	
Face Result Search Basic Settings			•		neio	Milesight-Test		Modeled	
C Third-party Connect			•	<u></u>		Milesight-Test		Modeled	
			•		young	Milesigh-technical		Modeled	
Ē	Selected:0/9						Add Person	Export All Import	Move to Delete

Before creating the Face Watch List, you need to create the Department first.

**Step1:** Click the to create the Primary Department and name it. You can also click the to rename it.

**Note:** The creation of a maximum of 10 Primary Departments is supported.

Step2: Click the 🕀 to create a Child-department. Click the 🖉 to rename the Child-

department. Or you can click the to delete it. If you need to add more child departments under an already created Child Department, you can repeat the above steps.

You can choose either of the below two ways to add face list.

#### (1) Add Face List One by One

**Step1:** Click the Add Person to pop up a "Add Person" window as below:

Add Person			>	×
Person Photo	*Name			,
	* Department			
	Milesight		~	J
	Person ID		•	liles
Click to upload photo				J
	Gender			
	Unknown		~	
	Face Group			
	VIP		~	
	Note			
		Save	Cancel	

**Step2:** Input Name and Person ID, choose Department, Gender and Face Group, and then upload the person photo, click the save.

(2) Batch Import Face List

**Step1:** Click the **Import** to pop up a window as shown below:

Batch Import			×
Person Info	Photo	Person Info +	Photo
Download Template Fil	e		
Person Info Template	.CSV		Export
Import File			
Import Steps: 1. Download template	csv file		
2. Fill in person Informa		8)	
3. Click the import path			
<ol> <li>4. Information import v</li> <li>5. Person information v</li> </ol>			
5. Person monnation v	vill be added into be	rault race Group	
		Import	Cancel

The imported file must be filled in according to the specified format. You can click to download the template. After filling in, click button to select the file, then click the **Import**.

The meanings of the parameters in the interface can be referred to the table below:

Parameter	Function Introduction
Add Person	Add the face list one by one.
Export All	Click the "Export All" button to export the faces in the current list to a csv form locally.
Import	Click the "Import" button to batch import the face list.
Move to	Click the "Move to" button to move the selected face list to the corresponding group.
Delete	Click the "Delete" button to delete all the selected faces in the current list.

### 6.5.2 Face Result Search

The real-time detection results will be displayed in the center of the Face Result Search page, including Face Results and Body Results which allows users to easily search and retrieve relevant facial recognition results for efficient analysis and review.

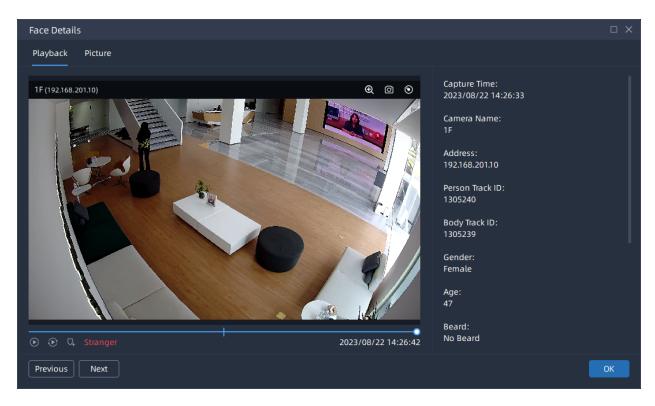
#### 6.5.2.1 Face Result

Select Time, Name, Person ID, Source Camera, Department, etc., and the related face

information will be displayed as below by clicking button. If you want to view more facial attributes such as hairstyle, mask wearing, and glasses, you can enable the Attributes Filter.

<b>M</b> ilesight	Live View Playback	Smart Analytic	s E-Map	Event & Ala					C 🛃 🚅	🕍 💄 july 🗸	- @ ×
ANPR	Face Results Body Result										
	Start Time								Column Designer		
	2023/08/14 00:00:00		Capture Picture							Capture Time	Operation
Traffic Report Picture Storage	End Time 2023/08/14 23:59:59		1		2					2023/08/14 20:03:58	
	Name										
People Counting					<u> </u>	jeff	123456	In List	test	2023/08/14 20:03:55	
						jen	123420	III LOK	uest	2023/08/14 20:03:55	
Retrieve	Туре				2				GYM	2023/08/14 20:03:54	
	All Types	~									
	Source Camera		<u>\$</u>		2				GYM	2023/08/14 20:03:47	
🕑 IOT	< Any Camera >										
Sensor Control	Department No Limit				<b>1</b>	jeff	123456		test	2023/08/14 20:03:37	
	Attributes Filter										
	Gender										
Face Recognition		~			2				test	2023/08/14 20:03:36	
Face Watch List	Age										
Face Result Search		~ L			2					2023/08/14 20:02:43	
	Beard		TREESENCE								
		×			2				test	2023/08/14 20:02:29	
	Skin Color										
					2				test	2023/08/14 20:02:13	
	Hair									2023/00/14/20:02:13	
	Hat										
	All	~			2				test	2023/08/14 20:02:05	
	Reset	h Selected	i: 0/100 Total: 1975								

By clicking the an view more face details, playback videos, capture snapshots, and perform other related actions.



You can also click the to add photos from Face Results to the Face Watch List.

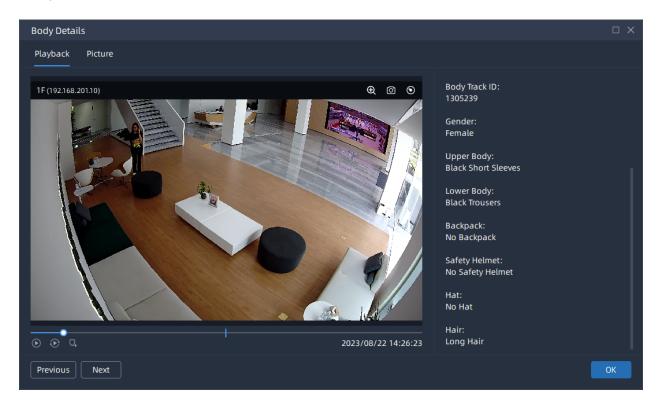
<b>M</b> ilesight		Smart Analytics E-Map						🛛 🕹 ⊄	📺 💄 july 🗸	
ANPR	Face Results Body Results									
	Name Please Input Name	Capture Picture	Score	Watch List Pict	Name	ID	Type	Column Designer C	( Search Capture Time	Operation
	ID Please Input Person ID									
People Counting	Type All Types			2					2023/08/22 14:30:21	
	Source Camera < Any Camera >	Add Person Person Photo	*Name					test	2023/08/22 14:30:11	
Q Retrieve	Department No Limit		*Department				Stranger		2023/08/22 14:26:50	
Video Search	Attributes Filter Gender		Milesight Person ID				Stranger		2023/08/22 14:26:42	63 ⊕
	All	Click to upload photo	Gender			2				
Sensor Data Report	All Beard	<b>▽</b>	Unknown Face Group		~				2023/08/22 14:26:33	
	All Skin Color	<b>∽</b>	VIP Note						2023/08/22 14:26:31	
Face Result Search Basic Settings	All	$\overline{\mathbf{v}}$							2023/08/22 14:26:26	
🖒 Third-party Connect	All			2	Save Cancel				2023/08/22 14:26:19	63 ⊕
	All Face Mask									
	All	■ ■ ■		2					2023/08/22 14:25:58	
	All	-		?					2023/08/22 14:25:19	
	Reset Search	Selected: 0/100 Total: 253								

#### 6.5.2.2 Body Results

Select Time and Source Camera, and the related body results will be display as below by clicking the <u>Search</u>. If you want to view additional attributes such as backpack presence, umbrella usage, and upper-body or lower-body clothing styles, you can enable the Attributes Filter.

<b>M</b> ilesight	Live View Playb	ack Sma	rt Analytics E-Ma	p Event & Alarm	Settings			⊠ <u>≵</u>	🦸 <u>ଲ</u> 🚨 july 🛩	– 🗆 ×
ANPR	Face Results Bod	y Results								
	Start Time							Column Designer		
	2023/08/22 00:00:00		Capture Picture	Camera Name	Gender	Upper Body	Backpack	Safety Helmet	Capture Time	Operation
Traffic Report Picture Storage	End Time 2023/08/22 23:59:59		- 22	test	Male	Black Long Sleeves	With A Backpack	No Safety Helmet	2023/08/22 14:33:05	
💮 People Counting	Source Camera < Any Camera >									
	Attributes Filter		- 🎇		Female	Light Blue Short Sleeves	With A Backpack	No Safety Helmet	2023/08/22 14:33:04	
	Gender									
Retrieve	All		- 22		Male	Black Long Sleeves	With A Backpack	No Safety Helmet	2023/08/22 14:33:03	
	Backpack									
IoT	Safety Helmet			test	Male	Black Long Sleeves	No Backpack	No Safety Helmet	2023/08/22 14:33:01	
Sensor Control			-							
	Hat		- 22	test	Male	Black Long Sleeves	No Backpack	No Safety Helmet	2023/08/22 14:33:00	
3 Face Recognition	Hair		-		Female	Light Blue Short Sleeves	With A Backpack	No Safety Helmet	2023/08/22 14:32:58	
	Ride Bike									
Face Result Search Basic Settings	All		-	test	Female	Light Blue Long Sleeves	With A Backpack	No Safety Helmet	2023/08/22 14:32:56	
🗘 Third-party Connect	All Upper Body			test	Female	Light Blue Short Sleeves	With A Backpack	No Safety Helmet	2023/08/22 14:32:55	
	All		10 Met							
	Lower Body All		- 😿	test	Female	Light Blue Long Sleeves	With A Backpack	No Safety Helmet	2023/08/22 14:32:49	
			- 🞬		Female	Light Blue Long Sleeves	With A Backpack	No Safety Helmet	2023/08/22 14:32:47	
	Reset	Search	Selected: 0/100 Total:	711						Export

By clicking the an view more body details, playback videos, capture snapshots, and perform other related actions.



If you want to display more face/body attributes in the Face Results/Body Results interface,

you can click on the Column Designer. The selected attributes will be synchronized across both search pages and their corresponding Details section. Alternatively, you can click the Reset to revert to the default settings.

<b>M</b> ilesight	Live View Playback Smart Analytics E-Map Event & Alarm Settings	🖾 🌲 🏦 🚨 july 🗸 — 🗆 X
ANPR	Face Results Body Results	<b>章</b> Notifications
	Name	Orier     Q     Search     12       Camera Na     Capture Time     Operation     12       X     GVIM     2022/06/22 21     Image: March Marc
<ul> <li>People Counting</li> <li>People Counting Groups</li> <li>People Counting Report</li> </ul>	Type     Image: Second se	david GVM 2023/08/22 21 © ⊕ Email service is not configured
Retrieve Video Search	Varie     Varie       Department     Varie       No Limit     Varie       Attributes Filter     Varie	GVM 2022/09/2221
e IoT Sensor Control Sensor Data Report	Gender     Camera Name       All     Capture Time       Age     Operation       All     Department	GYM 2023/08/22 21 🖾 ©
Face Recognition	Beard Gender All Skin Color	бчи 2023/08/2221 (Е) ⊙
Basic Settings	All V Hair Hair All V Main Hat	GYM 2023/08/221 Е Ф
	Hat     Image: Constraint of the second	
	Glasses	
Ū.	Reset Search Selected: 0/92 Total: 92	Export

#### 6.5.2.3 Basic Settings

Enable Face Pictures Storage to save face pictures to VMS. And users can set the minimum storage time and maximum storage time of face pictures. Auto and Customize options are available.

- Auto: Face pictures will be overwritten when storage space is insufficient.
- Customize: Customize the storage time according to the requirements.

Users can search for face pictures in Face Result Search interface after enabling Face Pictures Storage.

ANPR Pour Storage   ANPR Neuts Stardp   And Reuts Stardp   The Poople Counting   Poople Counting Groups   Poople Counting Groups </th <th><b>M</b>ilesight</th> <th>Live View Playback Smart Analytics E-Map Event &amp; Alarm Settlings</th> <th>⊠ ≵</th> <th>🌲 🟦 🚨 july 🖌 — 🗆 🗙</th>	<b>M</b> ilesight	Live View Playback Smart Analytics E-Map Event & Alarm Settlings	⊠ ≵	🌲 🟦 🚨 july 🖌 — 🗆 🗙
ANR Result Seach   ANR Result Seach   Tatfic Report   Picture Stange   I Auto   C Scienci Seach   People Counting   People Counting Groups   People Counting Report   Auto   C Retrieve   Video Search   Sensor Control   Sensor C	ANPR	Picture Storage		Notifications
Picture storage <ul> <li>Auto</li> <li>Custorize</li> <li>People Counting</li> <li>Auto</li> <li>Custorize</li> <li>People Counting Report</li> <li>Auto</li> <li>Custorize</li> <li>Apply</li> </ul> People Counting Report <ul> <li>Custorize</li> &lt;</ul>	ANPR Result Search	Enable v		
fice People Counting   People Counting Groups   People Counting Report   People Counting Report   Video Search   Sensor Control   Sensor Contr		Auto Customize		
People Counting Groups   People Counting Report     Imail Sendice   Video Search   Imail Sendice   Imail Sendice     Imail Sendice     Imail Sendice     Imail Sendice     Imail Sendice     Imail Sendice     Imail Sendice	🛗 People Counting			david
Retrieve         Video Search         Image: Sensor Control         Sensore		Apply		🔀 Email service is not configured
Image: Sensor Control         Sensor Control         Sensor Control         Sensor Control         Face Recognition         Face Result Search         Basic Settings         Image: The transport of the	Q Retrieve			
Sensor Control Sensor Data Report Face Recognition Face Watch List Face Result Search Basic Settings C Third-party Connect	Video Search			
Sensor Data Report  Face Recognition  Face Watch List Face Result Search  Basic Settings  Third-party Connect	🞯 IoT			
Face Watch Ust Face Result Search Basic Settings C Third-party Connect				
Face Result Search Basic Settings Third-party Connect	Face Recognition			
Third-party Connect	Face Result Search			
	Basic Settings			
Access Control	C Third-party Connect			
	Access Control			
	_			

## 6.6 Third-party Connect

### 6.6.1 Access Control

Here you can add third-party access control device, then it supports triggering the corresponding alarm actions based on external device events.

<b>M</b> ilesight		Smart Analytics			0 ± 4 <u>*</u>	🚨 july 🖌 🚽 🗇 🗙
ANPR	Service Control					
ANPR Watch List ANPR Result Search						
ANPR Result Search Traffic Report Picture Storage	Add New Service					
🚻 People Counting						
People Counting Groups People Counting Report						
Retrieve						
Video Search						
🞯 ют						
Sensor Control Sensor Data Report				Service list is empty, please add a service first.		
E Face Recognition						
Face Watch List Face Result Search						
Basic Settings						
Third-party Connect						
Access Control						
E						

**Step1:** Click the "Add New Device" button, input the Service Name, Host URL, Port, User Name and Password, and click the "Connect" button to connect to the device successfully.

**Note:** Currently it only supports the DS-K260X model of Hikvision. If you have compatibility requirements, please contact technical support.

<b>M</b> ilesight	Live View Playback Sma	t Analytics E-Map Event & Alarm Settings	🛛 🛓 📫 💄 admin 🗸 — 🗗 🗙
ANPR	Service Control		
ANPR Watch List ANPR Result Search		2 Doors Grp (2 Doors) 🖉 Set All Close Set All Open	
Traffic Report Picture Storage		Le Le Daor : hik door1 hik door2  Service : hik door	
💮 People Counting		Control Contro	
People Counting Groups People Counting Report	🕀 Add Door Group	Current Status:	
Q Retrieve		online	
Video Search			
🞯 IoT		Operation:	1
Sensor Control Sensor Data Report			
Face Recognition		Set Always Close	
Face Watch List Face Result Search			seconds (1-255)
Basic Settings			
Access Control			
		Delete Door Gt	
Ē	Total: 2	Delete Door Gr	

**Step2:** Go to Settings - Event Rule Settings interface, Click Add button to add an event rule. Select the event trigger type as Third Party Connect - Access Control, select the door group and the corresponding door, select the trigger condition, set the schedule, and then set the alarm action. Multiple types of action can be set for an event trigger. The meaning of each alarm action can refer to <u>Alarm Action (page 344)</u>.

Add Rule			×
Add RuleTriggerExternal Device EventsEvent TypeThird Party Connect - Access ControlDoor GroupDefault Door GroupDoorPlease select at least a door.Trigger ConditionClose -> OpenSchedule	> > > > >	Action List (0/17) Add Tag Do Recording Primary Emergency Recording Control Camera Output Call Camera PTZ Preset Show Notification Show Text Overlay Show Live Notice Play Sound Send HTTP Request Send Email	× * * * * * * * * * * * * * * * * * * *
		Write to Log Show on Alarm Screen	>
		Show on Full Screen	
		Save	Cancel

**Step3:** After setting the event rules, click the "Save" button, then the event rule will be added to the event rule list and take effect.

# Chapter 7. Event & Alarm

This VMS supports customizing event rules including trigger and action settings. And with data priorities processing and clear category of Alarm Data, Milesight Event & Alarm delivers more intelligent interfaces to focus on the target Event that matters to you.

The added event rules will be listed in the list, then you can directly check the details of event rules in the list.

<b>M</b> ilesight	Live View	Playback	Smart Analytics	E-Map	Event & Alarm	Settings					🛓 🧳 🛕 🔺 july 🗸	- 🗆 ×
Event Configuration	Event Rules											
Event Rules	Trigger		Action	Alarm								
Arming Control						Reset						
				Event T	уре							
				Motion Detect	tion[Start]	xix(192.168.69.222)	Enable/Disab	le Action		ole		
🗟 Event & Alarm Search	111			Motion Detect	tion[Start]	xix(192.168.69.222)				ble		
	111			Motion Detect	tion[Start]	LPR 246(192.168.69.246)	Enable	Disable		ble		
	222			Motion Detect	tion[Start]	< 2 Cameras >	Q Search					
Action Search	test			Motion Detect	tion[Start]	< 2 Cameras >				ble		
	test			Motion Detect	tion[Start]	Network Camera(192.168.69.200)	All					
	Test			Motion Detect	tion[Start]	xix(192.168.69.222)		ig		ole		
	🗖 xixi			Motion Detect	tion[Start]	Network Camera(192.168.69.200)	Do Re	cording				
	1111			ANPR - Vehicle	Detection	< Any Camera >	🔲 🎝 Primai	y Emergency Recording	9	ble		
	LPR 146			ANPR - Vehicle	e Detection	LPR 246(192.168.69.246)	🔲 🖾 Captu	re Picture				
	🗖 11			Behavior - Fall	Detection	< Any Camera >	🔲 📩 Contro	l Camera Output		ble		
	AI Box			Behavior - Fall	l Detection	GYM(192.168.201.10)	🔲 💿 Call Ca	imera PTZ Preset		ble		
	HTTP Event			HTTP Ev	vent	< System >	🔲 🏡 Show	Notification			Show Notification:HTTP Event	
	HTTP Event			HTTP EV	/ent	< System >	🔲 🗊 Show	Text Overlay				
	HTTP Event			HTTP Ev	rent	< System >	🔲 🚳 Show	Live Notice				
	HTTP Event			HTTP EV	/ent	< System >	🔲 🕩 Play S	ound				
	HTTP Event			HTTP EV	rent	< System >						
	HTTP Event			HTTP EV	/ent	< System >	Selected: 0/18					
Ē	Selected: 1/18 Er	nabled Actio	n: 47/48				Add	Delete	nable/Disable	C	opy Test Reset	to Default

## 7.1 Event Configuration

### 7.1.1 Event Rules

The steps of adding event rule are shown as below:

**Step1:** Click Add button to add event rule as show below:

<b>M</b> ilesight	Live View Playback Smart Analytics E-Map Event & Alarm Settings	🖾 🛓 🐗 🕍 😩 july 🛩 — 🗗 🗙
Event Configuration	< Back Basic Information Action Settings Alarm Settings	
Arming Control Custom Settings	Basic information	
🗟 Event & Alarm Search	Rule Name	
Event Search Alarm Search	Trigger Front-end Events	
Action Search	Event Type Motion Detection	
	Source	
	< Any Camera >	
	😫 Schedule	
	Rule Description	
	Action Settings (0/0) V A	
	Add Linkage Action	
	Alarm Settings	
	Trigger Alarm ●〕 Save <b>Cancel</b>	
Ē		

Here you can set event rules. Different types of trigger and action have different configuration rule items. Multiple types of action can be set for an event trigger. The meanings of the parameters on the page can refer to the table below.

**Step2:** After setting the event rules, click the "Save" button, then the event rule will be added to the event rule list and take effect.

<b>M</b> ilesight	Live View Playba	ack Smart Analytics	E-Map Event	& Alarm Settings		C 2	🚅 🚊 🛓 july 🗸 🚽	- 🗆 ×
Event Configuration	Event Rules							
Event Rules	Trigger	Action	Alarm					
				✓ Reset				
	Rule		Event Type	Source Of Trigger			Rule Description	
	111		Motion Detection[Start]	xix(192.168.69.222)	2	Enable		
Revent & Alarm Search	111		Motion Detection[Start]	xix(192.168.69.222)	8	Disable		
	111		Motion Detection[Start]	LPR 246(192.168.69.246)	A, II (K, II II (K)	Disable		
	222		Motion Detection[Start]	< 2 Cameras >	<b>*</b>	Enable		
	test		Motion Detection[Start]	< 2 Cameras >	2	Disable		
	test		Motion Detection[Start]	Network Camera(192.168.69.200)	2	Enable		
	Test		Motion Detection[Start]	xix(192.168.69.222)	D 🖻 🚖 🙈	Enable		
	xixi		Motion Detection[Start]	Network Camera(192.168.69.200)	🛥 🎄 🔜	Enable		
	1111		ANPR - Vehicle Detection	< Any Camera >	A 33 💷 🖿	Disable		
	LPR 146		ANPR - Vehicle Detection	LPR 246(192.168.69.246)	A, II (K, II (K)	Enable		
	11		Behavior - Fall Detection	< Any Camera >	D 🖻 🏚 🗊	Disable		
	Al Box		Behavior - Fall Detection	GYM(192.168.201.10)	D & # %	Disable		
	HTTP Event		HTTP Event	< System >	🔍 🛤 🥼 🔽		Show Notification:HTTP Event	
	HTTP Event		HTTP Event	< System >				
	HTTP Event		HTTP Event	< System >	D &			
	HTTP Event		HTTP Event	< System >	<b>↓</b> D• A <sub>0</sub>			
	HTTP Event		HTTP Event	< System >	٨			
	HTTP Event		HTTP Event	< System >	4			
	Selected: 0/18 Enabled A	action: 47/48			Add Delete Et			

**Step3:** You can also click button, or double click event rule row in the list to modify the selected event rule. Then click again the "Save" to apply the modified event rule.

**Step4:** Check the corresponding event rules, and then click the **Enable** or

Disable button to enable or disable the event rules in batches. You can also click the

Reset to Default

button to reset the event rules to the default, then the manually added rules will be deleted.

Now our VMS supports setting kinds of event trigger, the meanings of trigger settings can be referred to the table below:

#### Table 64.

Parameter	Function Introduction	
Front-end Event	Front-end Motion Detection: When cameras detect object motion, the event will be triggered. The event trigger has two statuses including Start and Stop, you can set different camera sources and schedules for different states. The page is as below:	

Parameter	Function Introduction
	Front-end Audio Alarm: The event trigger setting page is the same as Front-end Motion Detection setting page.
Front-end Event	Add Rule Trigger Front-end Events Event Type Audio Alarm Source <any camera="">  By Schedule  Note: Enable the Audio Alarm of Milesight camera before using the function.</any>
Front-end Event	Front-end External Input Alarm: The event trigger page is as below. If the selected camera has multiple alarm interfaces, then you can choose a type of Input ID. The default Input ID is Auto Detect. Add Rule Trigger Front-end Events Event Type External Input Alarm Source Any Camera > Input ID Auto Detect Schedule Finable the External Input Alarm of Milesight camera before using the function.

Parameter	Function Introduction	
	Front-end VCA: You can set different camera sources, schedules and VCA event types here. The page is as below:	
Front-end Event	Add Rule         Trigger         Front-end Events         Event Type         VCA - Region Entrance         VCA - Region Entrance         VCA - Region Exiting         VCA - Advanced Motion Detection         VCA - Tamper Detection         VCA - Line Crossing         VCA - Loitering         VCA - Object Left         VCA - Object Removed	

Parameter	Functi	on Introduction
	Counting and Regional People Count	trigger rule of two modes, including People ing. When the number of people detected rent will be triggered. The page is as below:
	Add Rule Trigger Front-end Events Event Type People Counting Source < Any Camera > Thresholds	
		9999 🗘
	Out	9999 🗘
	Capacity	9999 💲
	Sum	9999 🗘
	<ul> <li>Only when crossing the threshold.</li> <li>B Schedule</li> </ul>	
	Add Rule	
Front-end Event	Trigger	
	Front-end Events	~
	Event Type People Counting - Regional	~
	Source	
	< Any Camera >	
	Thresholds	
	Region 1 Region 2	>
	Region 3	>
	Region 4	>
	Only when crossing the threshold.	
	🛱 Schedule	
	Note:	
	<ul> <li>here you can enable the option in</li> </ul>	nt of Milesight camera before using the function. In the image below, the alarm will only be triggered erwise it will be triggered every time the value
	Only when crossing the threshold.	

Parameter	Function Introduction	
Smart Analytics Events	Analytics: Here you can set Smart Analytics Events trigger rule of five modes, including Motion Detection, Region Entrance, Region Exiting, Line Crossing and Loitering. You can set different camera sources and schedules here. The page is as below: Add Rule Trigger Smart Analytics Events Event Type Analytics - Motion Detection Analytics - Region Entrance Analytics - Region Entrance Analytics - Loitering Analytics - Loitering Analytics - Cross Line People Count Analytics - Regional People Count	

Parameter	Function Introduction	
Parameter Smart Analytics Events	ANPR: Here you can set ANPR trigger rule of five modes, including Vehicle Detection, Visitor Detection, Speed Detection, Congestion Detection and Retrograde Detection. The VMS system will trigger alarm actions according to the configuration rules. The page is as below: Add Rule Trigger Smart Analytics Events Event Type Analytics - Motion Detection Start Analytics - Group People Counting Analytics - Cross Line People Count Analytics - Regional People Count ANPR - Vehicle Detection ANPR - Visitor Detection ANPR - Speed Detection	
	ANPR - Congestion Detection ANPR - Retrograde Detection  Note: The VMS can only receive license plate recognition results from Milesight	
	camera.	

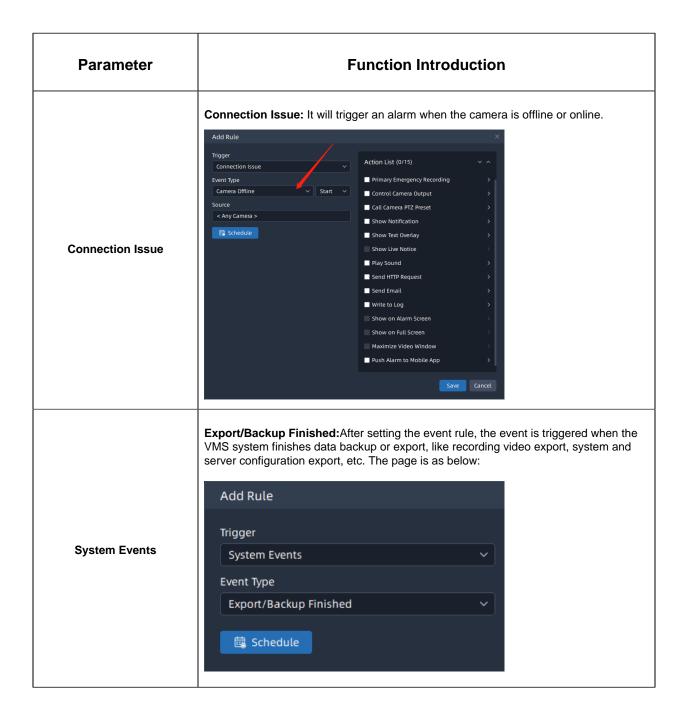
Parameter	Function Introduction		
Smart Analytics Events	Add Rule Trigger Smart Analytics Events Event Type Face Flatform Face Group <1 Groups > Source <no camera="" selected=""> Source</no>	Action List (1/17) Action List (1/17) Control Camera Output Coll Camera Output Coll Camera PTZ Preset Show Notification Show Text Overlay Show Live Notice Play Sound Send HTTP Request Show on Full Screen Show on Full Screen Show on Full Screen Show on Full Screen Maximize Video Window Push Alarm to Mobile App External Device Control	s Face+ Platform, select the face gro , and then set the alarm action.

Parameter	Function Introduction
Al Box Analytics Events	Here you can set Fall Detection and Face Recognition trigger rules. The VMS system will trigger alarm actions according to the configuration rules. The page is as below:         Basic Information         Rule Name         Input Rule Name         Trigger         Al Box Analytics Events         Event Type         Behavior - Fall Detection         Source         < Any Camera >         Excendule         Rule Description         Enter some contents here (e.g. the handling method after the event occurs)         Action Settings (0/0)         Add Linkage Action         Alarm Settings         Trigger Alarm

Parameter	Function Introduction	
IoT Sensor Events	IoT: Here you can set IoT Sensor Events trigger rule of five sensors: Occupancy, People Counting, Door Sensor, Electronic Switch and Smart Button. You can set different sensor sources and schedules here. The page is as below:	
	Basic Information   Rule Name   Input Rule Name   Trigger   IoT Sensor Events   Event Type   IoT - Occupancy   IoT - Occupancy   IoT - Occupancy   IoT - Door Sensor   IoT - Electronic Switch   IoT - Smart Button   IoT - People Counting	
External Device Event	Third Party Connect - Access Control: Select the event trigger type as Third Party Connect - Access Control, select the door group and the corresponding door, select the trigger condition, set the schedule, and then set the alarm action.         Add Rule       Image: Control Connect - Access Control Control Control Connect - Access Control Control Control Control Connect - Access Control Contr	

Parameter	Function Introduction
Connection Issue	Video Loss: You can set Video Loss trigger rule for selected cameras. Once the selected cameras are disconnected beyond the set time, the event rule will be triggered.
	Source Any Camera >
	dia Schedule

	Parameter	Function Introduction
Resume.         Add Rule         Trigger         Connection Issue         Event Type         Video Packet - Lost         Trigger Condition ©         Instant         Instant         Source         Add Rule         Trigger         Connection Issue         Add Rule         Trigger         Connection Issue         Source         Add Rule         Trigger         Connection Issue         Event Type         Video Packet - Resumed         Source         Any Camera >         Stedule         The Video Packet Lost event will be triggered if the VMS system detects the video packet is lost for more than the set time.	Connection Issue	Add Rule         Trigger         Connection Issue         Event Type         Video Packet - Lost         Instant         Last for         10         second(s)         Source         < Any Camera >         Gonnection Issue         Event Type         Video Packet - Resumed         Source         < Any Camera >         Gonnection Issue         Event Type         Video Packet - Resumed         Source         < Any Camera >         Gonnection Issue         Event Type         Video Packet Lost event will be triggered if the VMS system detects the video packet is lost for more than the set time.         The Video Packet Resumed event will be triggered if the VMS system detects the video



Parameter	Function Introduction
System Events	User Expiration: Here You can set five types of User trigger rule, including Expired, Near Expiration, Login Succeeded, Login Failed and logout. The page is as below: Add Rule Trigger System Events Event Type User - Expired User - Expired User - Near Expiration User - Login Succeeded User - Login Failed User - Logout
Server Events	Record Failure: You can set a schedule for the selected cameras, if the selected cameras record failed, then the event will be triggered.

Parameter	Function Introduction
	<b>License Issue:</b> You can set three types of License Issue trigger rule, including Invalid, Expired and Near Expiration. You can set duration for Near Expiration Date if your license is close to expire, then the event will be triggered duration days before Expiration Date.
Server Events	Add Rule   Trigger   Server Events   Event Type   License - Invalid or Expired   Record Failure   License - Invalid or Expired   License - Near Expiration

Parameter	Function Introduction
Parameter	Function Introduction         Storage Issue: After setting the event rule, the event will be triggered if the VMS system detects Storage Issue. There are three types of Storage Issue, including Disk Full, Disk Load too High and Disk Failure.         Add Rule         Trigger         Server Events         Event Type         Storage - Disk Full         Record Failure         License - Invalid or Expired         License - Invalid or Expired         License - Near Expiration         Storage - Disk Full         Storage - Disk Full         Storage - Disk Full         Add Rule         Trigger         Server Events         Server Events </th
	de Schedule

Parameter	Function Introduction
	Server Started: After setting the event rule, the event is triggered if a certain server is started, offline or Conflict in the VMS system. The page is as below: Add Rule Trigger Server Events Event Type Server - Start  Big Schedule
Server Events	Failover: After setting the event rules, the event will be triggered if the VMS system detects Failover Start Working or Stop Working after Server Recovery.         Add Rule         Trigger         Server Events         Event Type         Failover - Start         License - Invalid or Expired         License - Near Expiration         Storage - Disk Full         Storage - Disk Failure         Server - Start         Server - Offline         Server - Start         Failover - Start

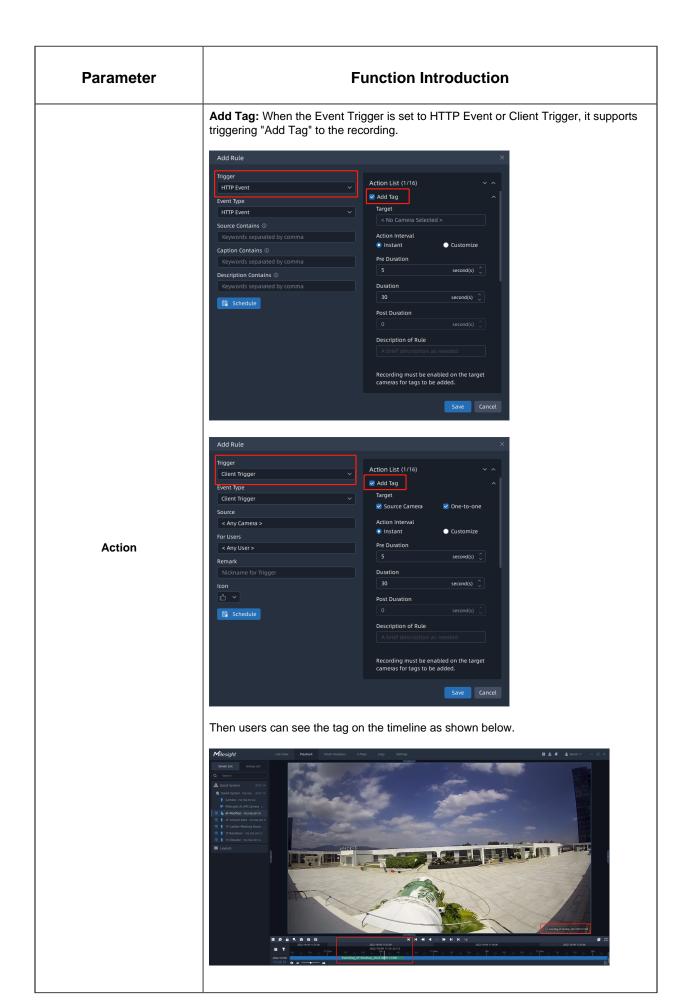
Parameter	Function Introduction
HTTP Event	HTTP Event: After setting the event rules, the HTTP event will be triggered only if there are matches in the 'Caption', 'Source', or 'Description' with any of the entered keywords if the VMS system receives HTTP push from external devices. The page is as below:
	Keywords separated by comma         Image: Schedule         Image: Note: If the field is empty, event will always be triggered.

Parameter	Function Introduction
Client Trigger	Client Trigger: Here you can set trigger icon, users who will be available to use this trigger, remark and trigger schedule for selected cameras. After setting the rule, selected users can see the trigger rule icon and remark in live view window of selected cameras. The page is as below: Add Rule Trigger Client Trigger Event Type Client Trigger Source < Any Camera > For Users < Any User > Remark Nickname for Trigger icon © ○ ○ ① ① ② ② ① ⑦ ② ① ⑦ ③ ② ② ① ① ② ③ ② ② ① ⑦

Timer Event:       Here you configure Timer Event to detect anomalies and trigger all based on predefined time schedules.         Basic Information       Rule Name         Input Rule Name       Trigger         Timer Event          Event Type       Timer Event         Time       12:00:00         Schedule       Rule Description         Enter some contents here (e.g. the handling method after the event occurs)	ırms

The meanings of action settings can be referred to the table below:

### Table 65.



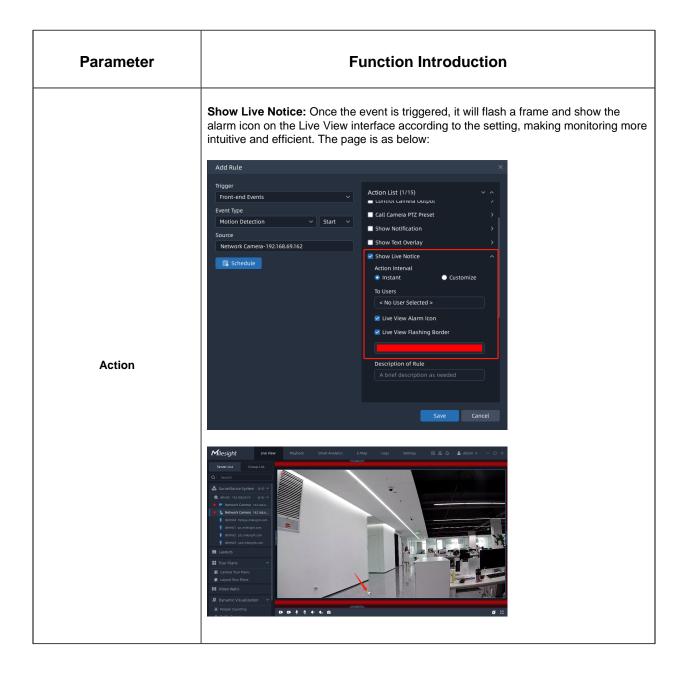
Parameter	Function Introduction
	<b>Do Recording:</b> After setting the action rule, the selected target cameras will record video according to the action setting when the corresponded event is triggered. The page is as below:
	Action List (0/15)
	Do Recording
	Target
	🗹 Source Camera 🛛 🗹 One-to-one
	Action Interval
	Instant Customize
	Pre Record
	5 second(s) 🗘
Action	Duration
	30 second(s) 🗘
	Post Record
	0 second(s) 🗘
	Record Stream
	Primary Stream ~
	Description of Rule
	A brief description as needed
	Save Cancel

Primary Emergency Recording: After setting the action rule, the selected target cameras will record primary stream video according to the action setting when the corresponded event is triggered. The page is as below: Primary Emergency Recording Target Source Camera One-to-one Action Interval Instant Customize Duration 30 second(s) C Description of Rule A brief description as needed Primary Emergency Recording is based on recording schedule, which can be configured at [Camera Record Schedule]. Primary Emergency Record is based on recording schedule, which can be configured at [Camera Record Schedule]. Capture Picture: After setting the action rule, the Source Camera is allowed to trigger snapshots on Evidence Camera. The Page is as below:
Action Interval  Action Interval  Customize  Evidence Camera  < 2 Cameras >  Note: Within 2 evidence cameras are supported.

Parameter	Function Introduction
Action	Control Camera Output: After setting the action rule, the current output status of selected target camera will change to another one status according to the action setting when the corresponded event is triggered. The page is as below: Control Camera Output Target (Single) < No Camera Selected > Action Interval Instant Customize Output ID Auto Detect Set Normal Status Open Grounded Description of Rule A brief description as needed

Parameter	Function Introduction
	<b>Call Camera PTZ Preset:</b> After setting the action rule, the selected preset of target camera will be called according to the action setting when the corresponded event is triggered. The page is as below:
	Call Camera PTZ Preset
	Target (Single)
	< No Camera Selected >
	Action Interval
	💿 Instant 💦 💿 Customize
	Preset
	None ~
	Description of Rule
	A brief description as needed
Action	<b>Note:</b> The default target cameras only display the devices which can support PTZ function.
	<b>Show Notification:</b> After setting the action rule, the selected users can see the event notification in the notifications panel according to the action setting when the corresponded event is triggered. The page is as below:
	Show Notification
	Action Interval
	💿 Instant 💿 Customize
	To Users
	< No User Selected >
	🗹 Add Tag for Acknowledge
	Description of Rule
	A brief description as needed
	<b>Note:</b> Selected users must set to receive the notification in the Notification Filter, and then can see the event notification in the notifications panel.

Parameter	Function Introduction
	<b>Show Text Overlay:</b> After setting the action rule, the text overlay which you set will display in the real-time live view window of selected cameras according to the action internal and duration setting when the corresponded event is triggered. Furthermore, you have the option to restrict the visibility of these alarm actions to specific users. The page is as below:
	Show Text Overlay
	Target
	🗹 Source Camera 🛛 🗹 One-to-one
	Action Interval
	Instant O Customize
	Duration
	5 second(s) 🗘
	Text to Show
	Type here the text to show
	Description of Rule
	A brief description as needed



Parameter	Function Introduction
Action	Play Sound: After setting the action rule, the audio file will play on the client system of selected users when the corresponded event is triggered. Users can choose the built-in audio files in the system or upload the custom audio files manually to meet different needs. The page is as below:
	Image: A station of the station of

Parameter	Function Introduction	
	<b>Send HTTP Request:</b> After setting the action rule, the VMS system will send HTTP Request to the URL filled in the box when the corresponded event is triggered. The page is as below:	
	Send HTTP Request	
	Action Interval	
	<ul> <li>Instant</li> <li>Customize</li> </ul>	
	HTTP URL	
	Type here the URL	
	Content Type	
	text/plain ~	
	HTTP Content	
Action	Type here the HTTP Content	
	Authentication Type	
	Digest ~	
	Request Type	
	GET ~	
	User Name	
	User Name of HTTP Server	
	Password	
	Password of HTTP Server	
	Description of Rule	
	A brief description as needed	
	<b>Note:</b> The HTTP URL format can be customized,for example,http://{ip}:{port}/api/ httpEvent?xxxxxx	

Parameter	Function Introduction	
	Send Email: After setting the action rule, the VMS system will send the event emails including trigger, event source and time, etc., to the selected users and other recipients which you set when the corresponded event is triggered. The page is as below: Send Email Action Interval Instant Customize To Users < No User Selected >	
	Other Recipients           Recipients separated by semicolon	
Action	Description of Rule A brief description as needed  Note: Email Service needs to be configured correctly.	
	Write to Log: After setting the action rule, the VMS system will write the information about event to event logs when the corresponded event is triggered. The page is as below:	
	✓ Write to Log Action Interval	
	Instant     O Customize	
	Description of Rule A brief description as needed	

Parameter	Function Introduction
	Show on Alarm Screen: After setting the action rule, the VMS system will push the live view of camera to display on Alarm Screen while action is triggered. The page is as below:
	Action Interval
	<ul> <li>Instant</li> <li>Customize</li> </ul>
Action	Duration
	10 second(s) 🗘
	To Users
	< No User Selected >
	Description of Rule
	A brief description as needed
	[Alarm Screen] is not configured, go to [Client Settings - Multi-Monitor] for setting.
	<b>Note:</b> 'Alarm Screen' need to be configured firstly.

Parameter	Function Introduction
Action	Show on Full Screen: After setting the action rule, the VMS system will push the live view of camera to display on Full Screen while action is triggered. The page is as below: Show on Full Screen Action Interval Instant Customize Duration 10 second(s) To Users <ul> <li>No User Selected &gt;</li> <li>Description of Rule</li> <li>A brief description as needed</li> <li>[Full Screen] is not configured, go to [Client Settings - Multi-Monitor] for setting.</li> </ul> <li>Note: 'Full Screen' must be configured firstly.</li>
	setting.

Parameter	Function Introduction	
Action	Function Introduction Push Alarm to Mobile App: After the action rule is set, the VMS system will push alarm message to M-VMS Mobile App. The page is as below:  Push Alarm to Mobile App Action Interval  Instant Customize To Users Instant Customize Courses Instant Customize Description of Rule A brief description as needed Target users need to log into this System on Mobile App to receive alarm messages.	
	<b>Note:</b> Please make sure the version of M-VMS Mobile App is V1.0.0.2 or above.	

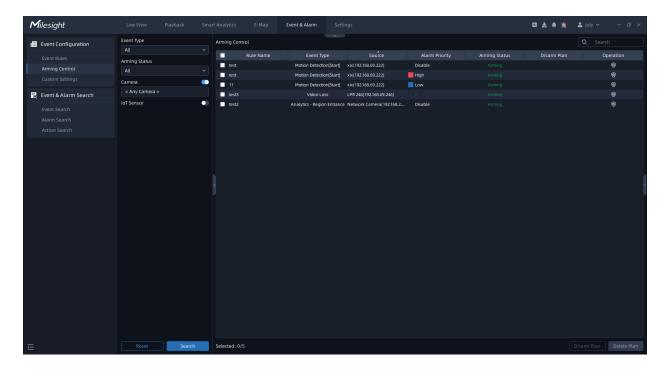
Parameter	Function Introduction		
Action	External Device Control: If you have added an access control device, it supports triggering the door opening or closing according to different event trigger types to achieve access control management.		

**Step 5:** Enable Trigger Alarm. When you enable it, then the Alarm Data will be generated in the Alarm Center

Milesight	Live View Playback Smart Analytics E-Map	Event & Alarm Settings	🖾 🌲 🛕 🏦 😩 july 🛩 — 🕫 🗙
Event Configuration			Platin Center
Event Rules	Basic Information Action Settings Alarm Settings		
Arming Control	Rule Name		
Custom Settings			
🐻 Event & Alarm Search	Trigger		
event & Atarm Search	Front-end Events ~		
Event Search	Event Type		
Alarm Search	Motion Detection v Start v		
Action Search	Source		
	< Any Camera >		
	📾 Schedule		
	Rule Description		
	Action Settings (0/0) V ^		
	Add Linkage Action		
	Add Enhage Action		
	Alarm Settings		
	Trigger Alarm 🔍		
	Priority		
	High ~		
	Action Interval		
	Instant Customize		
	To Users		
	Pop-up Window		
Ē	Save Cancel		

# 7.1.2 Arming Control

The VMS supports setting Disarm Plan to disable events temporarily at a specific time interval.



Step1: Select the Event Type, Arming Status, Camera and IoT Sensor, and click

Search

Step2: Check the events, and click Disarm Plan button or click ;

Step3: Set the specific time interval that you'd like to disable the events and click save ;

Step4: If you need to restore the armed status, you can click Delete Plan;

The meanings of the icons on the interface can be referred to the table below:

### Table 66.

lcon	Function Introduction
Disarm Plan	Click icon to disarm plan
Edit Plan	click clicon to change the time interval of the Disarm Plan.
Delete Plan	Click 🗊 icon to delete the disarm plan.

## 7.1.3 Custom Setting

You can customize the names of Alarm Priority and Category on the Custom Settings interface. The prioritization and classification of Alarm Data help users to find the target quickly.

Event Configuration Event Rules Arming Control Custom Settings Event & Alarm Search Alarm Search Action Search	Alarm Priority Add Delete Priority Name 2222 High Cow Medium Ext 1 Ext 2	2 ti 2 2 2 2 2 1		
Arming Control Custom Settings Event & Alarm Search Event Search Alarm Search	Priority Name	2 ti 2 2 2 2 2 1		
Custom Settings Event & Alarm Search Event Search Alarm Search	Low High Medium test 1	2 ti 2 2 2 2 2 1		
Event & Alarm Search Event Search Alarm Search	Low High Medium test 1	2 ti 2 2 2 2 2 1		
	Low Medium			
	Medium			
	test 1			
	test 2			
	Alarm Category			
	Category Name			
	False			
	good test			
	test True			
	Verification require			

Alarm Priority

Users can click button, and then input the priority name and choose the color. If you need to edit the specific Alarm Priority, you can click button to change the name and color. Or if you want to delete the specific Alarm Priority, you can click con.

Add Priority				×
*Priority Name				
Important Case	2			
*Color				
#FFFFFF Hex	255 255 R G	255 B	Cance	2L
		B 💬		
+				

By clicking on

Delete

to delete the Alarm Priority in bulk or individually.

Alarm Pri		
	Priority Name	Operation
<ul> <li>✓</li> </ul>	22222	2 🖬
	High	Ĺ
	Low	Ĺ
	Medium	Ĺ
	test 1	2 8
	test 2	2 8

Alarm Category

Users can click button, and then input the Category Name. If you need to edit the Category Name, you can click con. Or if you want to delete the specific Alarm Category, you can click con.

larm Category			
Add	Delete		
□ C	ategory Name	Oj	peration
	False		
	test		2 8
	True		2
Ver	ification required		2 🖬
Edit Catego	ory		
*Category N	ame		
False			
		Course Course	
		Save Can	cel

By clicking on **Delete** to delete the Alarm Category in bulk or individually.

Alarm Ca	ategory	
A	dd Delete	
	Category Name	Operation
	False	l
	test	2 🖯
	True	2
	Verification required	2 🖯

## 7.2 Alarm Center

In the Alarm Center, you can see the Alarm Data with the status of Unacknowledged and the corresponding priority level. Besides, the Live View, Playback, Picture and Map will be shown in the below section.

**Note:** To implement Picture feature, you need to enable the Capture Picture first.

Alar	m Center							- 🗆 X
All		✓ Q   Search	c	>		Pop-up Window 🤇	All	
	Rule Name	Event Type	Status	Alarm Priority	Time	Source	Event Details	Operation
	test	Motion Detection	Unacknowledge	High	2023/06/21 11:53:57	LPR 246(192.168.69	. Detected by camera.	à
	11	Motion Detection	Unacknowledge	Low	2023/06/21 11:42:39	xix(192.168.69.222)	Detected by camera.	à
	test	Motion Detection	Unacknowledge	High	2023/06/21 11:42:39	xix(192.168.69.222)	Detected by camera.	
	test	Motion Detection	Unacknowledge	High	2023/06/21 11:40:51	xix(192.168.69.222)	Detected by camera.	à
Select	ed:0/500						Acknowledge	
Live V	/iew				layback			
					D 🕑 🔍 Motion	Detection	2023/00	5/21 11:54:01
Pictur	re			N	Лар		xixi Map	~ 🔌
LPR 24	44(192168.69.246)			e				

The meanings of the parameters in the interface can be referred to the table below:

Table	67.
-------	-----

lcon	Function Introduction
Pop-up Window	Once it is enabled, you will receive real-time pop-up notifications whenever there is Alarm Data generated.
Play	Click to view the playback video at the time of the event trigger
Pause	Click to pause the playback.
Play in Playback	Click to return to the Playback interface for users to view more playback details.
Add Tag	Click to tag the playback time period.

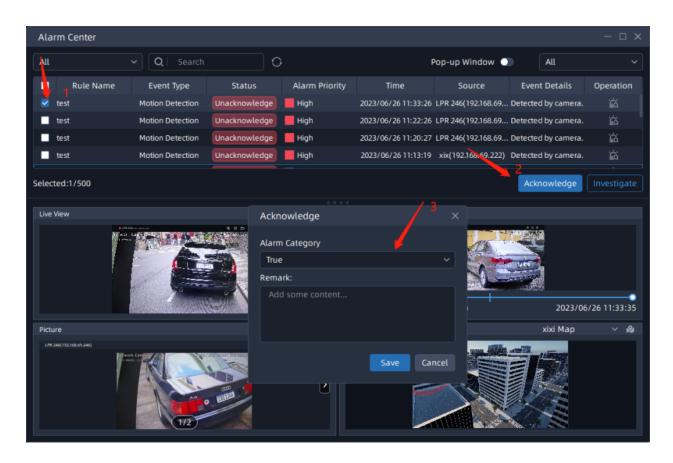
lcon	Function Introduction
Next	Click to view the picture taken by Evidence Camera
Previous	Click to view the picture taken by Source Camera
Enable	Click to enable digital zoom

How to change the status of Alarm Data?

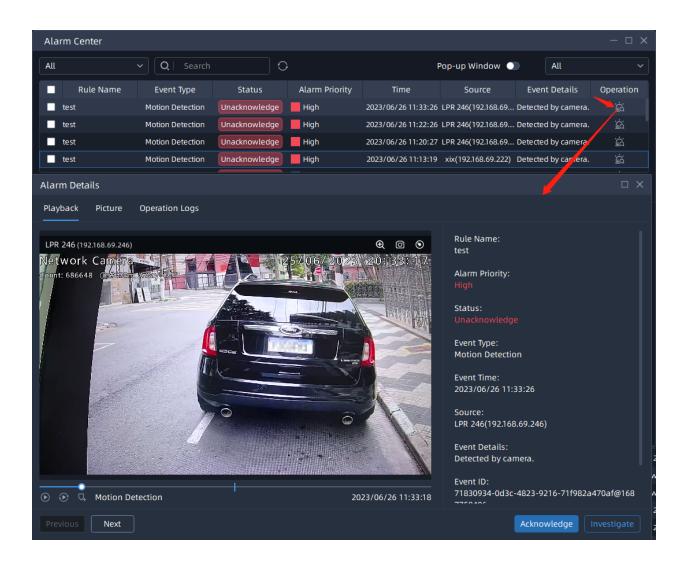
Step1: Select the target Alarm Data in bulk or individually;

**Step2:** Click Acknowledge to put the Alarm Data into the specific category and click save button, then the Alarm Data can be searched in Alarm Search;

Or you can click Investigate, the status of the Alarm Data will then become Under Investigate. If you want to change the status again, you can click Acknowledge and put it to the target category.



If you want to know more details about the Alarm Data, you can click in to enter the Alarm Details interface and view more details, such as Playback, Picture, Operation Log, etc. Similarly, on this interface, you can also change the status of the alarm data by clicking Acknowledge and Investigate.

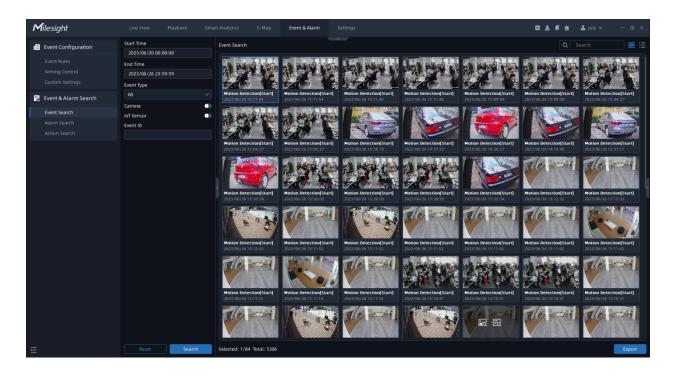


# 7.3 Event Alarm Search

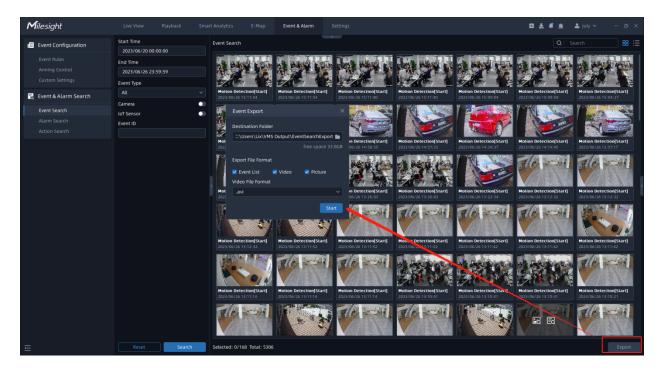
#### 7.3.1 Event Search

You can search and export analytics results of Camera and IoT Sensor according to Event Type, Time Range, Event ID in the Event Search interface.

Before you start, please make sure that you have added an event action as recording in the Event Rules interface, otherwise the detection results will not be searchable in the Event Search interface.



By clicking on Export, you can export the target events in Event List, Video, and Picture files. The Video File Format supports .avi and .mp4 formats.

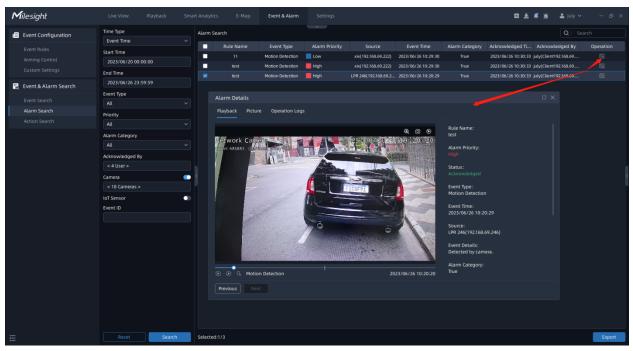


#### 7.3.2 Alarm Search

Based on Time Type, Time Range, Priority, Alarm Category, etc., you can find the acknowledged Alarm Data of Camera and IoT Sensor in the Alarm Search page.

<b>M</b> ilesight				Event & Alarm					🔯 📩 🦧 🖮 🌲 july 🗸	
Event Configuration	Time Type	Alarm Si	earch							
	Event Time	<u> </u>	Rule Name					Alarm Category	Acknowledged Ti Acknowledged By	Operation
Arming Control	Start Time 2023/06/20 00:00:00			Motion Detection		xix(192.168.69.222)			2023/06/26 10:30:33 july(Client192.168.69	
			test	Motion Detection	High	xix(192.168.69.222)	2023/06/26 10:29:30	True	2023/06/26 10:30:33 july(Client192.168.69	
	End Time 2023/06/26 23:59:59			Motion Detection	High	LPR 246(192.168.69.2			2023/06/26 10:30:33 july(Client192.168.69	
🛜 Event & Alarm Search										
Event Search	Event Type									
Alarm Search										
	Priority									
	Alarm Category									
	Acknowledged By									
	< 4 User >									
	Camera	1								
	< 18 Cameras >									
	loT Sensor									
	Event ID									

By clicking on store the Alarm Details interface, you can view more details about the Alarm Data, such as Playback, Picture, Operation Logs, etc.



If you need to export Alarm Data, you can select Alarm Data in bulk or individually and click

Export to export it in CSV format.

Milesight	Live View Playback	Smart Analytics E-M		Settings				~	초 🦸 🚊 🚨 july ~	- ø ×
Event Configuration	Time Type	Alarm Search								
Event Rules	Event Time Start Time	Rule Narr		Alarm Priority			Alarm Category		Ti Acknowledged By	Operation
Arming Control	2023/06/20 00:00:00				xix(192.168.69.222)	2023/06/26 10:29:30	True		0:33 july(Client192.168.69	
Custom Settings	End Time	test	Mation Detection	High	xix(192.168.69.222)	2023/06/26 10:29:30	True	2023/06/26 10:3	0:33 july(Client192.168.69	
Event & Alarm Search	2023/06/26 23:59:59	test	Motion Detection	High	LPR 246(192.168.69.2	2023/06/26 10:20:29	True	2023/06/26 10:3	0:33 july(Client192.168.69	
Event Search	Event Type	Save File						×		
		$\leftarrow \rightarrow \circ \uparrow \downarrow$	This PC > Downloads >			v 8	Search Downloads			
Alarm Search	Priority									
Action Search		Organize • New f					811 -	0		
	Alarm Category	Y 🛄 This PC	^ Name		Date mod	fied Type	Size	^		
	All	> 🗊 3D Objects	V Last month (4)					_		
		> Desktop	<ul> <li>82208969507 - Survey Report.c</li> <li>82208969507 - Attendee Report</li> </ul>		5/30/2023 5/30/2023					
	Acknowledged By	Documents     Downloads	<ul> <li>82208969507 - Attendee Report</li> <li>82208969507 - Registration Re</li> </ul>		5/30/2023					
	< Any User >	> h Music	Vehicle Counting_2023051619		5/17/2023					
	Camera	D > Pictures	✓ Earlier this year (20)							
	loT Sensor	Videos	85189461514 - Attendee Repor	rt.csv	4/11/2023	5:11 PM XLS 工作課	₹ 3 КВ			
	Event ID	> 🏪 System (C:)	86574230544 - Attendee Report		4/11/2023					
	Event ID	> Program (D:)	85189461514 - Survey Report.c		4/11/2023					
		> 🔜 Data (E:)	<ul> <li>86574230544 - Survey Report.c</li> <li>84449881872 - Survey Report.c</li> </ul>		4/11/2023 1/16/2023					
		> 💑 SVN (F:)	<ul> <li>83340243617 - Survey Report (</li> </ul>		1/16/2023					
			× 6 04440001077 00-4 04		1/16/2022			~		
		File name: A	arm Search_20230626-112029.csv					~		
		Save as type: *.	sv					~		
		∧ Hide Folders				<sup>2</sup>	Save Car	cel		
						_				
Ē	Reset Search	Selected:1/3								Export

#### 7.3.3 Action Search

Based on Time Range, Event Type, and Action, you can filter out the target events corresponding to the target alarm action in the Action Search interface.

<b>M</b> ilesight	Live View Playback	Smart Analytics E-Map	Event & Alarm Setti				0 1 <b>1</b> 1	july ∽ — Ø
Event Configuration	Start Time	Action Search						Q Search
Event Rules	2023/06/20 00:00:00	Rule Name	Date/Time	Event Type			Target	Event Details
	End Time	test	2023/06/26 11:20:27	Motion Detection[Start]	ELPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera. [
	2023/06/26 23:59:59	test	2023/06/26 11:20:27	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
	Event Type	test	2023/06/26 11:06:35	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
Event & Alarm Search		✓ test	2023/06/26 11:06:35	Motion Detection[Start]	ELPR 246(192.168.69	Capture Picture	1 LPR 246(192.168.69	Detected by camera.
	Action	test	2023/06/26 11:06:14	Motion Detection[Start]	EPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
	Capture Picture	✓ test	2023/06/26 11:06:14	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
	Camera	C test	2023/06/26 10:54:44	Motion Detection[Start]	ELPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
Action Search	LPR 246(192.168.69.246)	test	2023/06/26 10:54:44	Motion Detection[Start]	ELPR 246(192.168.69	Capture Picture	1 LPR 246(192.168.69	Detected by camera.
	loT Sensor	🕥 🗖 test	2023/06/26 10:54:13	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
	Event ID	test	2023/06/26 10:54:13	Motion Detection[Start]	ELPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	2023/06/26 10:20:29	Motion Detection[Start]	EPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	2023/06/26 10:20:29	Motion Detection[Start]	ELPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		e test	2023/06/26 10:11:29	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	2023/06/26 10:11:29	Motion Detection[Start]	ELPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		test	2023/06/26 09:51:43	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		test	2023/06/26 09:51:43	Motion Detection[Start]	ELPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	2023/06/26 09:51:08	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		test	2023/06/26 09:51:08	Motion Detection[Start]	ELPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	2023/06/26 09:50:37	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	2023/06/26 09:50:37	Motion Detection[Start]	EPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		test	2023/06/26 09:49:46	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	2023/06/26 09:49:46	Motion Detection[Start]	EPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		test	2023/06/26 09:41:47	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		test	2023/06/26 09:41:47	Motion Detection(Start)	EPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test 🗌	2023/06/26 09:22:26	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	2023/06/26 09:22:26	Motion Detection(Start)	EPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		test 📃	2023/06/26 09:01:52	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		test	2023/06/26 09:01:52	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
	Reset Searc	h Selected: 0/400						

By clicking see more action details.

<b>M</b> ilesight	Live View Playback	Smart Analytics		ettings				□ ± # ± ;	Lijuly ∽ — @ >
Event Configuration	Start Time	Action Search							
	2023/06/20 00:00:00		tule Name Date/Time	Event Ty	ne			Target	Event Details
	End Time	test	2023/06/26 11:20:27			LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera
	2023/06/26 23:59:59	test	2023/06/26 11:20:27			LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
	Event Type	test	2023/06/26 11:06:35			LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
🐻 Event & Alarm Search	All	~ test	Action Details		x tartl	1 00.2 mg 192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
	Action	test	Action Details		tart)	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
	Capture Picture	✓ test	Event Type		tarti	ELPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
	Camera	test	Motion Detection[Start]		tart]	₽ LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
Action Search	LPR 246(192.168.69.246)	test	Source		tart]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
	loT Sensor	test	LPR 246(192.168.69.246)		tart)	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
	Event ID	test	Action		tart]	ELPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	Capture Picture		tart]	ELPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	Target		tart]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		test	LPR 246(192.168.69.246)		tart)	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera. 🔄
		test	Event Details		tart]	LPR 246(192.168.69	Capture Picture	IPR 246(192.168.69	Detected by camera. 🔄
		test	Detected by camera.		tart]	1 LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera. 🔄
		test	Event ID		tart)	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test	2199adc2-		tart)	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		test	cc33-4dff-834c-84ccb94ac	d5d2@1687749627	tart]	1 LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera.
		test		ОК	tart]	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera. 🔄
		test			tart]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera. 🔄
		test	2023/06/26 09:49:46	Motion Detecti	on[Start]	ELPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera. 🛛
		test	2023/06/26 09:49:46	Motion Detecti	on[Start]	LPR 246(192.168.69	Capture Picture	ELPR 246(192.168.69	Detected by camera. 🔄
		test 🗌	2023/06/26 09:41:47	Motion Detecti	on[Start]	ELPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera. 🔄
		test	2023/06/26 09:41:47	Motion Detecti	on[Start]	LPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera. 🔄
		🗖 test	2023/06/26 09:22:26	Motion Detecti	on[Start]	ELPR 246(192.168.69	Capture Picture	Network Camera(19	Detected by camera. 🛛
		test	2023/06/26 09:22:26	Motion Detecti	on[Start]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera. 🔄
		test test	2023/06/26 09:01:52	Motion Detecti	on[Start]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera. 🔄
		test	2023/06/26 09:01:52	Motion Detecti	on[Start]	IPR 246(192.168.69	Capture Picture	📱 Network Camera(19	Detected by camera. 🔄
	Reset Search	Selected: 0/40	0						Export

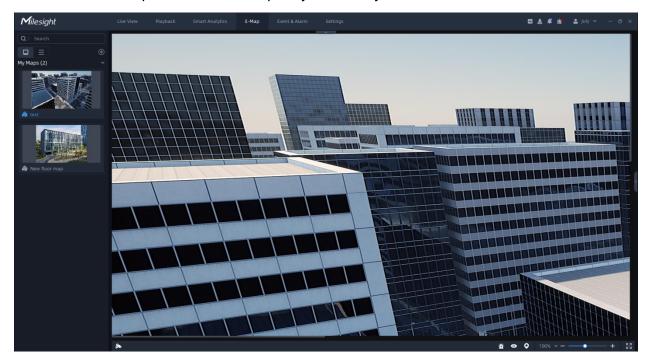
If you need to export action logs, you can select Alarm Data in bulk or individually and click

 Export
 to export it in CSV format.

<b>M</b> ilesight	Live View Playback	Smart Analytics	E-Map	Event & Alarm Settin	gs			🖸 🛃 🚅 뉦	💄 july 🗸 🛛 — 🗗 🗙
Event Configuration	Start Time	Action Search							
Event Rules	2023/06/20 00:00:00		tule Name	Date/Time	Event Type	Source	Action	Target	Event Details
	End Time	🔽 test		2023/06/26 15:47:27	Motion Detection[Start]	ELPR 246(192.168.69	Do Recording	ELPR 246(192,168.69	Detected by camera, 🛛 🕫
	2023/06/26 23:59:59	test		2023/06/26 15:47:27	Motion Detection(Start)	LPR 246(192.168.69	Show Notification	july(Client192.168.6	Detected by camera.
	Event Type	test		2023/06/26 15:47:27	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	LPR 246(192.168.69	Detected by camera.
		✓ test		2023/06/26 15:47:27	Motion Detection[Start]	LPR 246(192.168.69	Capture Picture	Network Camera(19	
📷 Event & Alarm Search	Action								
	All	v test		2023/06/26 15:46:39	Motion Detection[Start]	LPR 246(192.168.69	Show Notification	july(Client192.168.6	Detected by camera.
Alarm Search	All	Save File		2022/06/26 15:46:20	Motion Data disoff to di	E 100 346/103160 60	De Beserdine X		Detected by camera. 🗔
Action Search	Camera		↓ This PC :			v 0	Search Downloads	LPR 246(192.168.69	Detected by camera. 🛛 🔀
Action Search	loT Sensor	• • • • T	This PC	Downloads >		v 0	Search Downloads	Network Camera(19	. Detected by camera. 🔄
	Event ID	Organize 👻	New folder				800 🗸 🖓	EPR 246(192.168.69	Detected by camera. 🛛 🔂
		🗸 💷 This PC	^ Nar	ne	Date	modified Type	Size	& july(Client192.168.6	Detected by camera. 🛛 🗔
		> 🗊 3D Obje		82208969507 - Attendee Report.csv		/2023 5:17 PM XLS 工作表		LPR 246(192.168.69	Detected by camera.
		> 📃 Desktop		82208969507 - Registration Report.csv Vehicle Counting_20230516191454.csv		/2023 5:17 PM XLS 工作表 /2023 10:14 AM XLS 工作表		Network Camera(19	
		> 🔮 Docume	nts	rlier this year (20)	2010	ALC INTERNET ALC THE	2.00	LPR 246(192.168.69	
		🄄 > 👆 Downloa	ds	85189461514 - Attendee Report.csv	4/11/	/2023 5:11 PM XLS 工作表	3 KB	-	Detected by camera.
		> 🁌 Music		86574230544 - Attendee Report.csv		/2023 5:09 PM XLS 工作表		July(Client192.168.6	Detected by camera. 🛛 🔀
		> E Pictures	۲	85189461514 - Survey Report.csv	4/11/	/2023 5:08 PM XLS 工作表		LPR 246(192.168.69	Detected by camera. 🔄
		> 📓 Videos		86574230544 - Survey Report.csv		/2023 5:05 PM XLS 工作表		Network Camera(19	Detected by camera. 🔣
		> 🏪 System (	-	84449881872 - Survey Report.csv 83340243617 - Survey Report (1).csv		/2023 7:10 PM XLS 工作表 /2023 7:10 PM XLS 工作表		1 xix(192.168.69.222)	Detected by camera. 🛛 🗔
		> Data (E:)		84449881872 - Q&A Report.csv		/2023 7:06 PM XLS 工作表		i xix(192,168,69,222)	Detected by camera, 🛛 🕅
		> 🐅 SVIN (F:)		84449881872 - Attendee Report.csv		/2023 7:05 PM XLS 工作表		xix(192.168.69.222)	Detected by camera.
			v 🖲	84449881872 - Registration Report.csv	1/16/	/2023 7:05 PM XLS 工作表	3 КВ ,	Front Desk(192.168	Detected by camera.
		File <u>n</u> a	me: Action Searc	h_20230626-154753.csv			~	-	
		Save as t	ype: *.csv				~	Front Desk(192.168	Detected by camera. 🗔
						_		Network Camera(19	Detected by camera. 🗟
		∧ Hide Folders				L	Save Cancel	Network Camera(19	. Detected by camera. 🔄
		11		2023/06/26 15:11:54	Motion Detection[Start]	📱 xix(192.168.69.222)	Capture Pic. 19	I xix(192.168.69.222)	Detected by camera. 🔣
		test		2023/06/26 15:11:40	Motion Detection[Start]	1 xix(192.168.69.222)	Capture Picture	xix(192.168.69.222)	Detected by camera. 🛛 😨
		test		2023/06/26 15:11:40	Motion Detection[Start]	xix(192.168.69.222)	Capture Picture	Front Duck(192.168	Detected by camera. 🗟
		test		2023/06/26 15:11:40	Motion Detection[Start]	xix(192.168.69.222)	Do Recording	I xix(192.168.69.222)	Detected by camera.
		test		2023/06/26 15:11:40	Motion Detection[Start]	xix(192.168.69.222)	Capture Picture	xix(192.168.69.222)	Detected by camera.
	Reset Search		00 Total: 1792	4, Continue to load more?	OK Cancel				Export

# Chapter 8. E-map

Milesight VMS supports adding multiple maps. Through this function, you can add several cameras for the added maps, which can help you distinctly understand cameras distribution situation and find specified cameras quickly and easily.



## How to add map?

as shown below:



Step1: You can click button in the left panel to add a new map. A window will pop up

Create New Map					
Map Name					
New Map					
Background Picture					
Click to select a background picto	ure				
Map Size					
According to Background Picture Size					
<b>Customize</b> 2000 x 2000					
Creator					
grace					
This Map will be shared with Owner by default.					
Crea	te Cancel				

**Step2:** Name the new map. When Map Size is selected as According to Background Picture Size, you need to click the "Click to select a background picture" to upload a background picture. When Map Size is selected as Customize, you can set the size as needed and don't need to upload a background picture. If you upload a background picture, the filled size cannot be smaller than the image resolution. Then click the "Create" button. After the map is created, the newly created map starts to be edited by default. The created map will be listed in the left panel of E-map window as shown below:

<b>M</b> ilesight	Live View Playback Smart	Analytics E-Map Event & Alarm	Settings	🖾 🛓 📫 🏦 💄 july 🛩 — 🕫 🗙
Q Search □ Ξ ① My Maps (1) w test	Q         Search           ✓         B Group 1           ✓         B Group 1           ✓         B Group 1           ✓         B Group 1           ✓         B Group 2           ✓         Network Camera 192368.69.20           Ø         192368.20130           Ø         192368.20130			Remove According to Background Pictur Customize 3840 × 2160
	▶ 😂			

**Note:** Please choose a picture less than 8MP or 4K resolution.

In the left panel, you can click  $\Box$  to set whether to display the list as thumbnails or text.

You can right click the added map to pop up a menu window to do some operations, including Open, Modify Map, Rename, Delete, Move to Top and Create New Map as shown below.



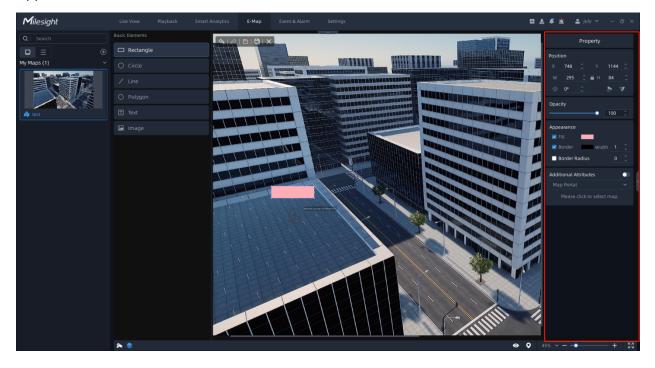
In the Global Property panel, you can set Map Size, Background Picture Opacity, Camera Name & IP Position, and Camera Icon Size in the right panel.

**Step3:** Drag and drop the different cameras from Camera List to the map. You can click the camera icon which is added in the map to modify the icon property including Icon Position, Opacity, Display Field of View, Event Blink, Switch to Another Camera or Remove From Map in the right panel as below.



For Event Blink, you can select events as needed and set the Blink Color. When an event occurs on the camera, it will flash with the corresponding color as a reminder.

**Step4:** Click an element in Layer List and draw on the map. After drawing, press Esc to exit drawing. You can click the drawn element to modify the property including Position, Opacity, Appearance as below.



For rectangles, circles, and polygons, it can be set as a portal. Enable Additional Attributes and click to select added maps.

You can right click the added element to pop up a menu window to do some operations, including Cut, Copy, Top, Forward, Backward and Bottom as shown below.

_		
	Cut	Ctrl+X
	Сору	Ctrl+C
	Тор	Alt+T
	Forward	Alt+F
	Backward	Alt+B
	Bottom	Alt+D
Pi		

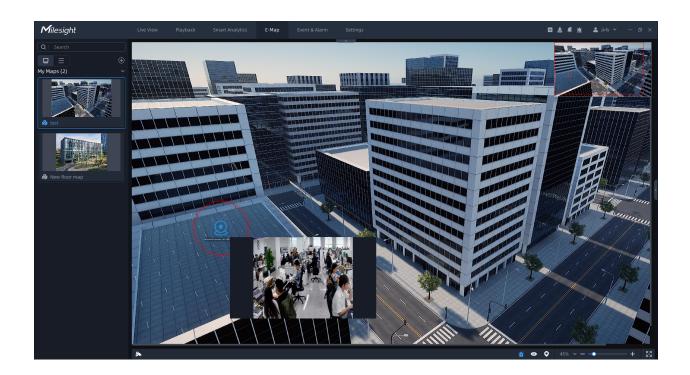
Step5: When setting, you can click so button to undo an action or click button to redo

an action. After setting, you can click 🖾 button to save your settings for the map or click

 $\square$  button to save as a new map. And click  $\blacksquare$  button to exit edit mode and view the added map.

Step6:After saving the settings and exiting the edit mode, you can double-click the map

to switch to view. And you can click icon to preview the live view of cameras and use top toolbar of the thumbnail window. Also you can click the element to jump to the corresponding map.



If the map is in a non-editing state, you can right click the added map to pop up a menu window to do some operations, including Open, Modify Map, Rename, Delete, Move to Top and Create New Map as shown below.

Open(O)	Enter
Modify Map(M)	Alt+E
Rename(R)	
Delete(D)	
Move to Top(T)	
Create New Map(N)	Alt+N

Also, you can click and you will see the device tree , and right-click the camera on it to pop up a menu window to do some operations, including Locate to Map, Play and Pin as shown below.

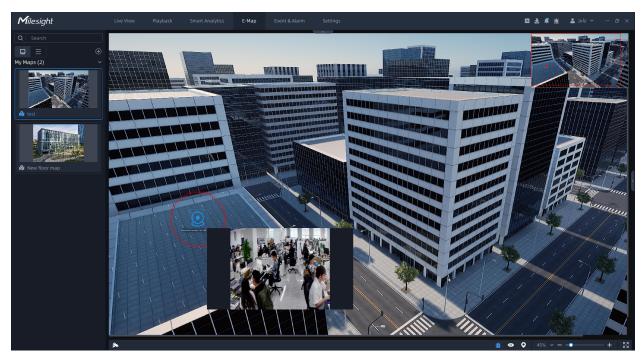


## Event Blink

Click is button to set whether to display event blinking as below:



If enabled, thumbnails will be displayed in the upper right corner. When an event occurs on the camera which has set event blink, it will flash with the corresponding color as a reminder.



### Map Preset

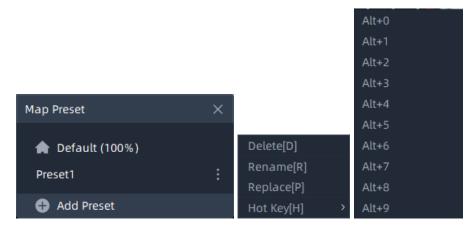
Map Preset can help user locate the specified position quickly.

Click Obutton to add different presets for maps. Map Preset Add page is as below:



Click the "Add Preset" button to add presets which are added according to current

proportion and position of map. Here you can also click it to set operation about presets in the pop-up operation window including Delete, Rename, Replace and Hot Key.

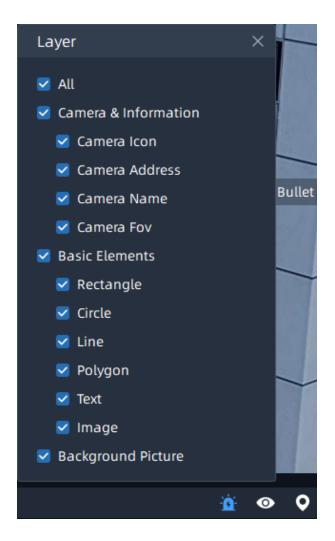


#### Note:

- 1. You can click the "Default" button to display the map with 100% centered.
- 2. You can set a Hot Key for every preset and the 10 Hot keys can't be reused to set.

#### Show Layers

Click button to set content to be displayed, here you can focus on the specified components in map panel according to your settings.

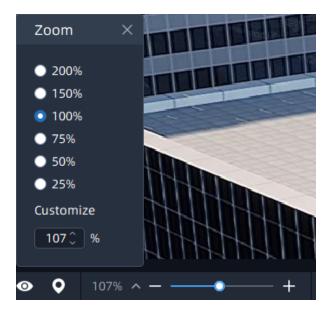


# Map Proportion Zoom

The display of map graphics in the Map window can be controlled under View Mode or Edit Mode.

The size of the map can be selected, and the map can be moved in the window to show the area you want to view by using

adjust the map size.



**Note:** Apart from the background picture, the icons and texts added in map both are involved in

Zoom in/out.

# Chapter 9. Service

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: <a href="mailto:support@milesight.com">support@milesight.com</a>

Web: http://www.milesight.com

Online Problem Submission System: http://www.milesight.com/service/feedback.asp

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