



Video Management System Enterprise User Manual

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Chapter 1. Introduction.....	5
1.1 Introduction.....	5
1.2 Key Features.....	5
Chapter 2. Installation.....	7
2.1 Software Overview.....	7
2.2 System Operation Environment.....	7
2.3 Installation Guide.....	8
2.4 Login and Operations.....	11
2.4.1 How to Execute VMS Enterprise.....	11
2.4.2 Login Wizard.....	20
2.4.3 User Interface Introduction.....	28
Chapter 3. Settings.....	32
3.1 Dashboard.....	32
3.1.1 System.....	32
3.1.2 Server.....	38
3.2 Devices.....	42
3.2.1 Device Management.....	42
3.2.2 Device Configuration.....	52
3.2.3 Camera Record Schedule.....	122
3.3 System and Servers.....	125
3.3.1 System Settings.....	125
3.3.2 Server Settings.....	139
3.3.3 Analytics Settings.....	149
3.3.3 Event Rule Settings.....	150
3.3.4 User Settings.....	184
3.3.5 Video Wall Settings.....	198
3.4 Client Settings.....	203
3.4.1 Local Settings.....	203
3.4.2 Device Groups.....	212
3.4.3 Multi-Monitor.....	214
Chapter 4. Live View.....	216
4.1 Left Resource Panel.....	217

4.1.1 Server List.....	217
4.1.2 Group List.....	220
4.1.3 Video Wall.....	222
4.1.4 Dynamic Visualization.....	229
4.2 Live View Workspace.....	230
4.2.1 Toolbar of Live View Window.....	230
4.2.2 Right-click Menu of Live View Window.....	233
4.2.3 Bottom Toolbar.....	237
4.3 Right Panel of Live View.....	238
4.3.1 Notification.....	238
4.3.2 ANPR Preview.....	240
4.3.3 PTZ Control.....	240
4.3.4 Tour List.....	243
Chapter 5. Playback.....	247
5.1 Workspace and Toolbar of Playback Window.....	248
5.2 Playback Control.....	252
5.2.1 Video Playback Tool Bar Description.....	252
5.2.2 Settings Menu on the Timeline.....	259
5.3 Split Playback.....	262
5.4 Archive Management.....	264
5.4.1 Tags.....	264
5.4.2 Locked Files.....	265
5.4.3 Export.....	266
5.5 Right Panel of Playback.....	276
5.5.1 Tags for playback.....	276
Chapter 6. Smart Analytics.....	278
6.1 ANPR.....	278
6.1.1 ANPR Management.....	278
6.1.2 ANPR Result Search.....	286
6.1.3 Traffic Report.....	292
6.1.4 ANPR Settings.....	294
6.1.5 Picture Storage.....	299

6.2 VMS-end People Counting.....	300
6.2.1 People Counting Settings.....	300
6.2.2 People Counting Groups.....	302
6.2.3 People Counting Report.....	304
6.3 VMS-end Video Analytics.....	309
6.3.1 Analytics Events.....	309
6.3.2 Analytics Result Search.....	316
6.4 Retrieve.....	320
6.4.1 Video Search.....	320
6.5 Face.....	323
6.5.1 Face+ Platform.....	323
6.5.2 Face Library.....	326
6.5.3 Face Rule.....	331
6.5.4 Face Result Search.....	334
6.5.5 Face Preview.....	335
6.6 Third-party Connect.....	336
6.6.1 Access Control.....	336
Chapter 7. E-map.....	339
How to add map?.....	339
Event Blink.....	344
Map Preset.....	345
Show Layers.....	346
Map Proportion Zoom.....	347
Chapter 8. Logs.....	349
8.1 Event Logs.....	349
8.2 Audit Trail.....	353
Chapter 9. Service.....	357

Chapter 1. Introduction

1.1 Introduction

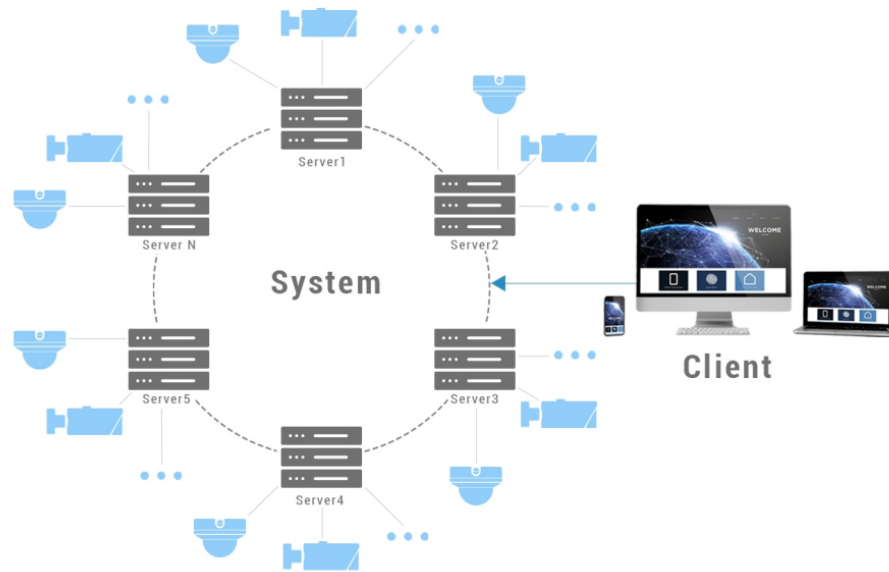
Milesight Video Management System Enterprise (hereinafter referred to as VMS) is one of the most innovative and most powerful video management software systems on the market, and it will fulfill your highest requirements and expectations. The simple and intuitive design requires little training while 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.

1.2 Key Features

- Support ONVIF
- Support H.265/H.264 video compression
- Support E-Map (Offer users a complete visual overview of the devices locations.)
- Support Advanced PTZ function
- Support up to 2000 channels per system/128 channels per server/25 servers per system (The numbers given are recommended maximum.)
- 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 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 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.



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

Table 1.

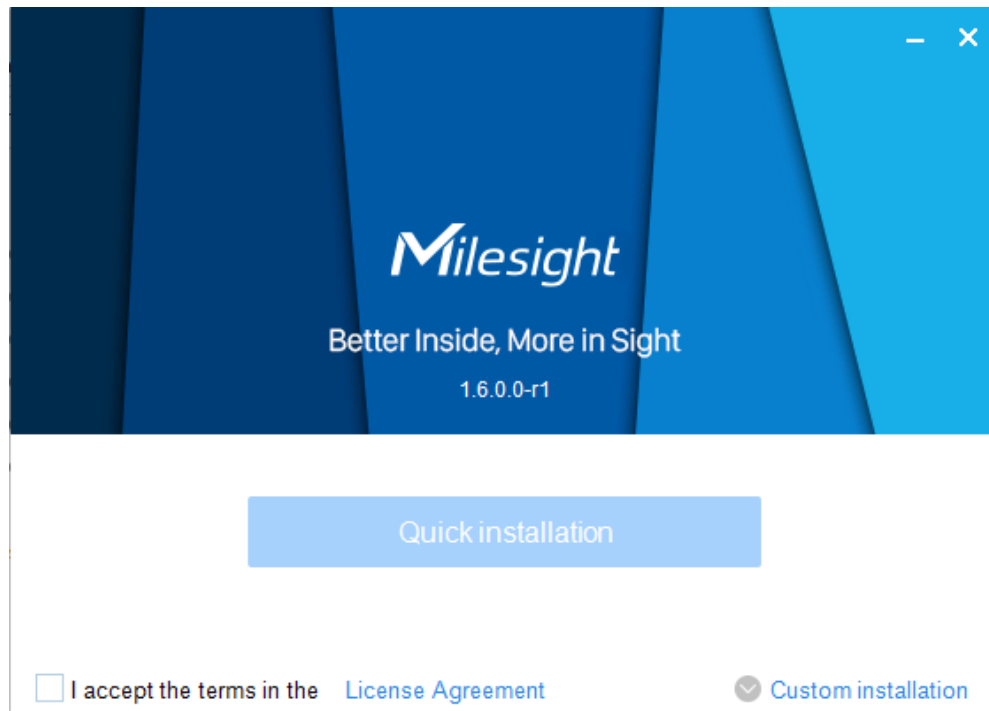
Client	CPU	Intel Core i5 @2.9GHz or above
	Memory	4GB or above
	HDD	HDD/SSD
	GPU	Recommend, discrete graphics card will be better
	Graphic Memory	2GB or more
	Display Resolution	1280 x 720 or above
	Network	1 Gbps or above
	OS	Windows7/8/10/11,Windows Server 2008/2012/2016/2019/2022
Server	CPU	Intel Core i3 @2.3GHz or above
	Memory	8GB or above
	HDD	HDD/SSD
	Network	1Gbps or above (10Gbps recommended)
	OS	Windows7/8/10/11,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.



Quick installation

C:\Users\Lix\Desktop\Milesight VMS Enterprise\ 

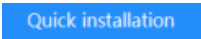
Install client Install server Install video wall

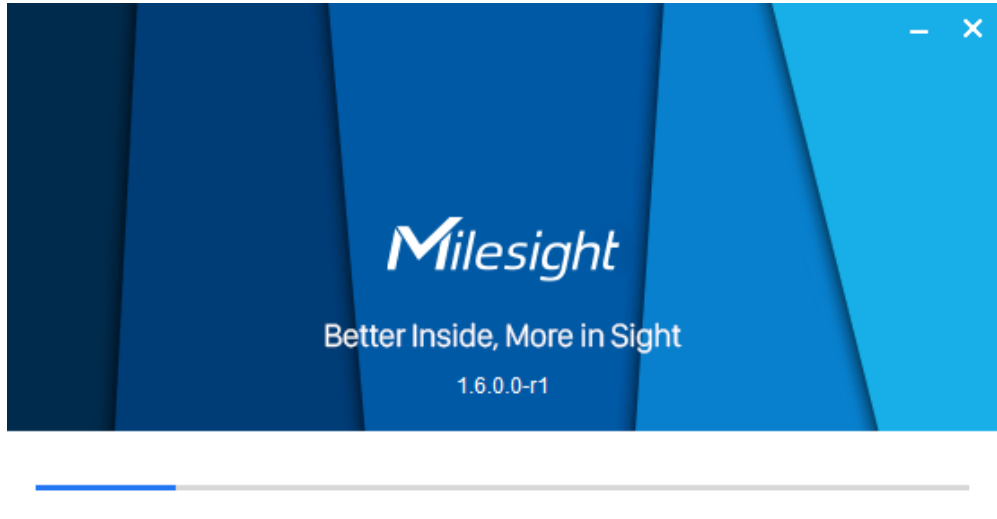
I accept the terms in the [License Agreement](#)

 [Default installation](#)

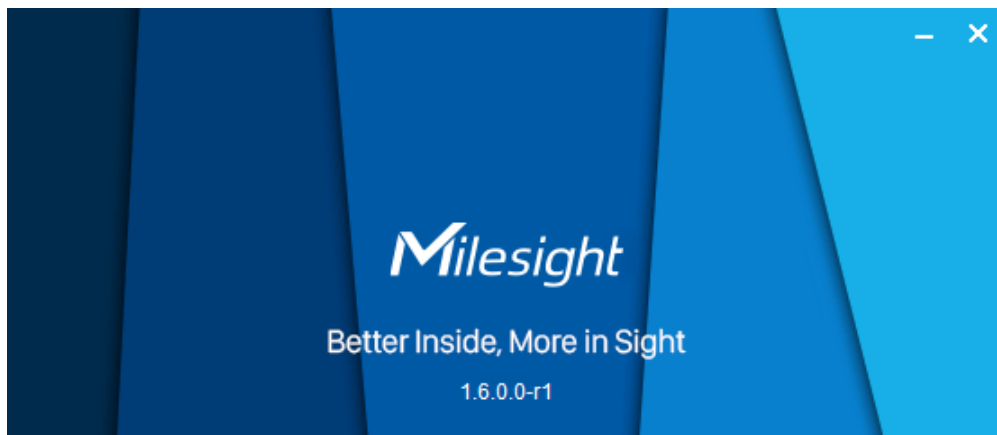
 **Note:**

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  to install;



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



Run VMS Now


Finished

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.

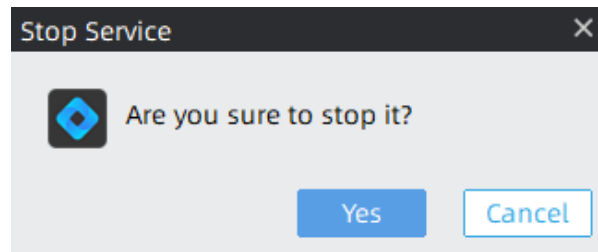
2.4 Login and Operations

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.

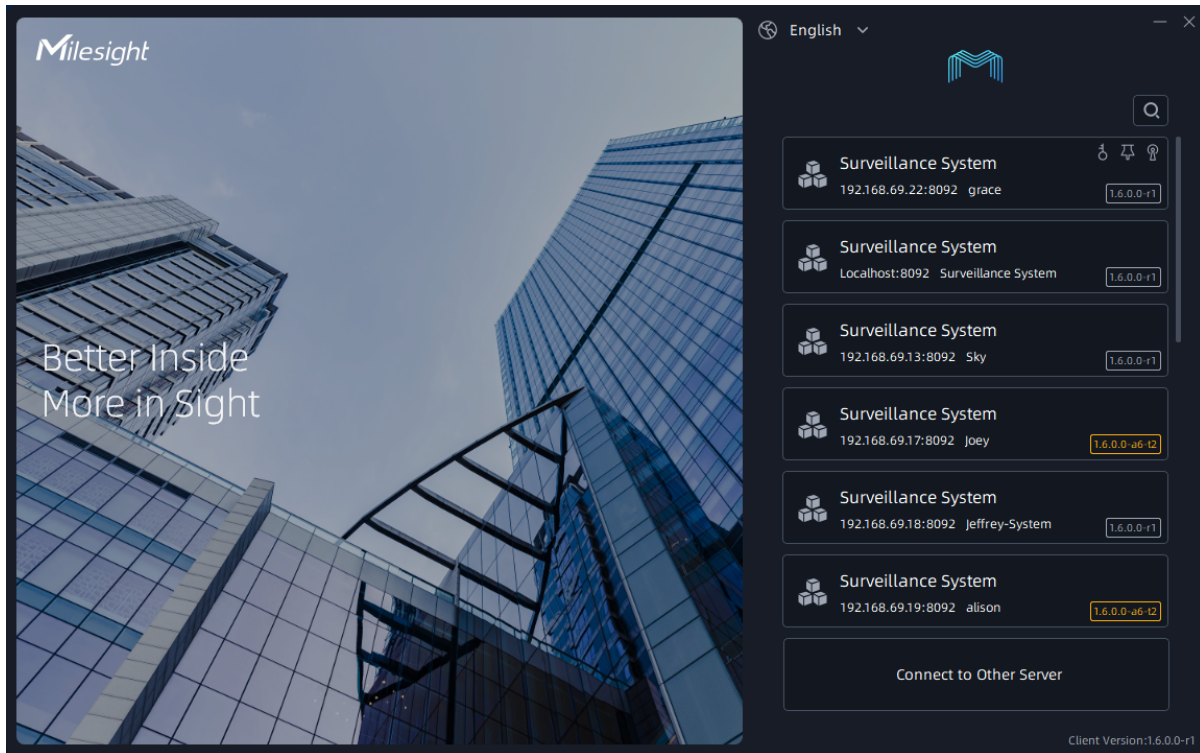
 **Note:** When the services of VMS Server, Video Wall and Video Analytics stops, a confirmation popup will pop up to confirm the operation.



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:





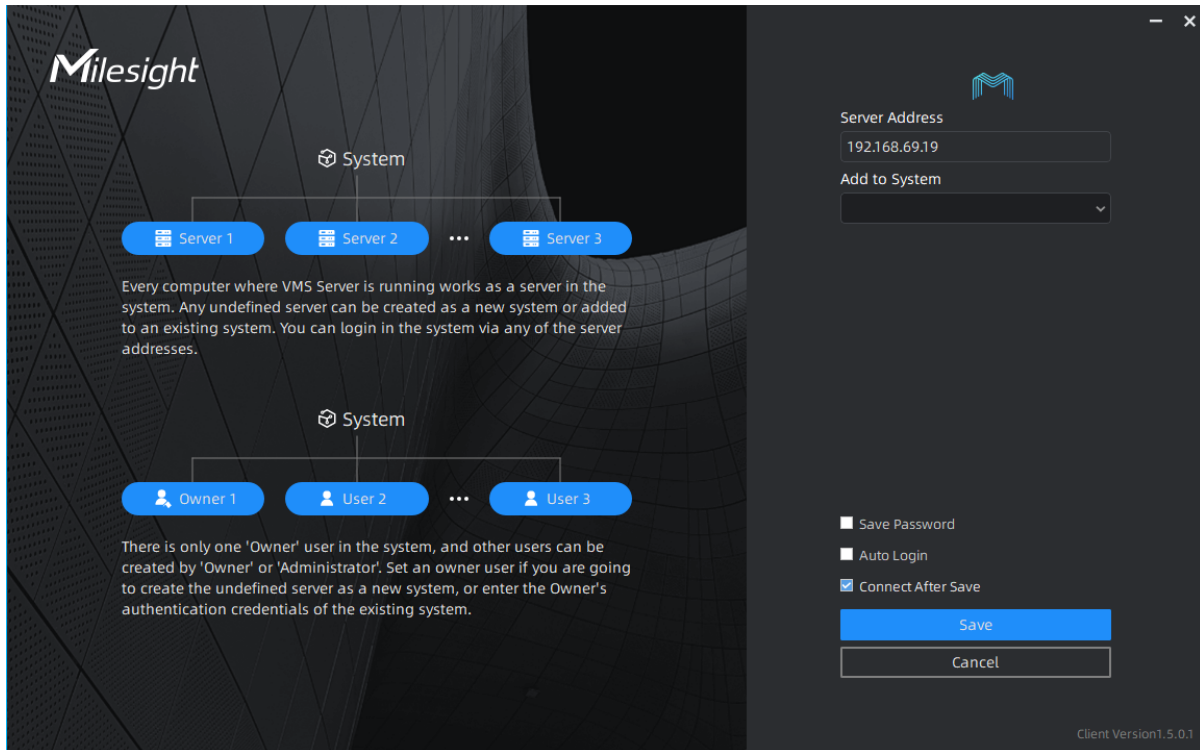
Before using “Milesight VMS Enterprise Client” for live view, you need to create VMS system first. Then you are able to add the cameras via different servers. Only after adding the server and cameras, can you use functions like Live View, playback, E-map, etc.

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

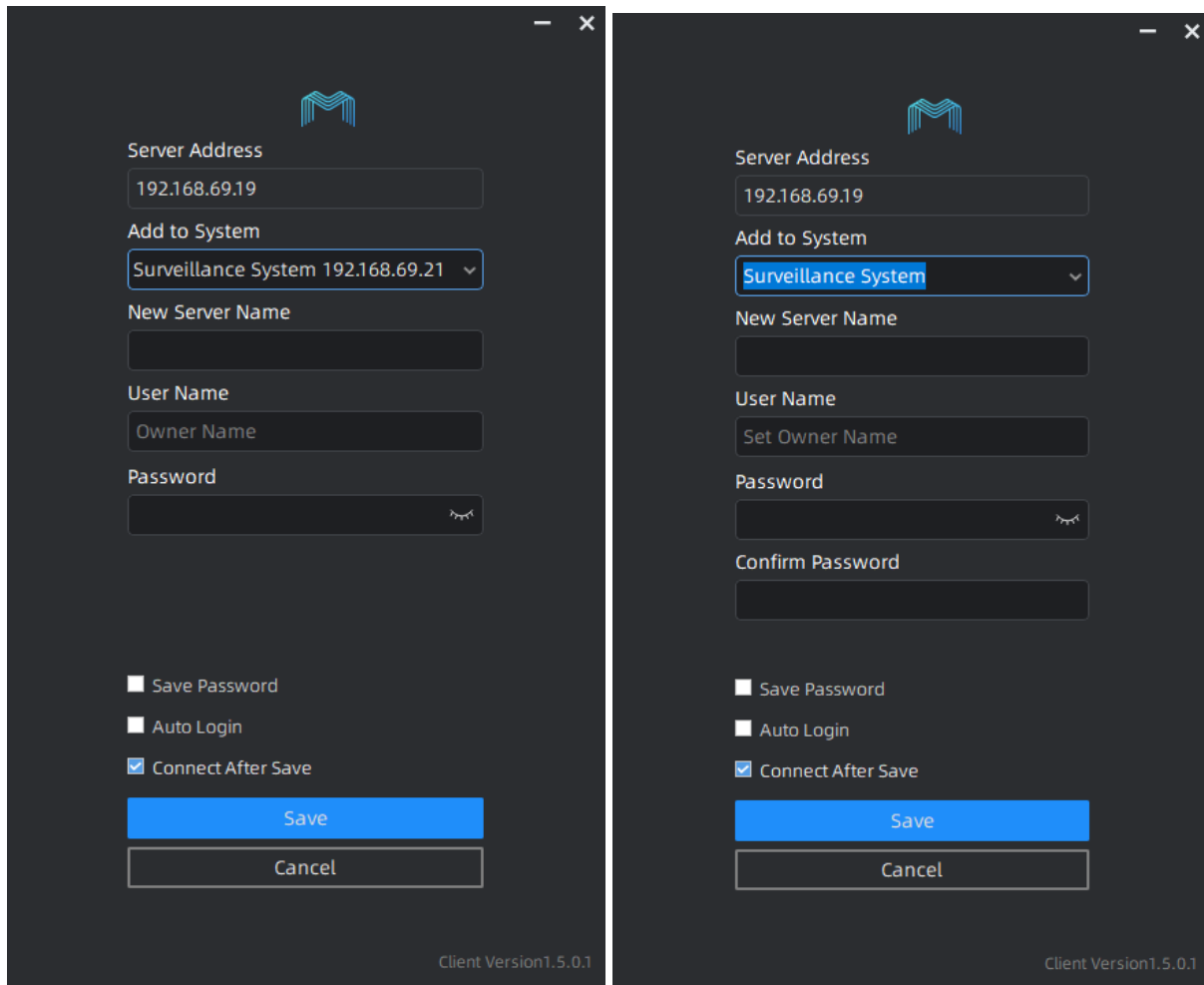
1. Directly connecting existing system in the list.
2. Login VMS client interface by adding undefined server to a new system or a existing system in the list.

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:

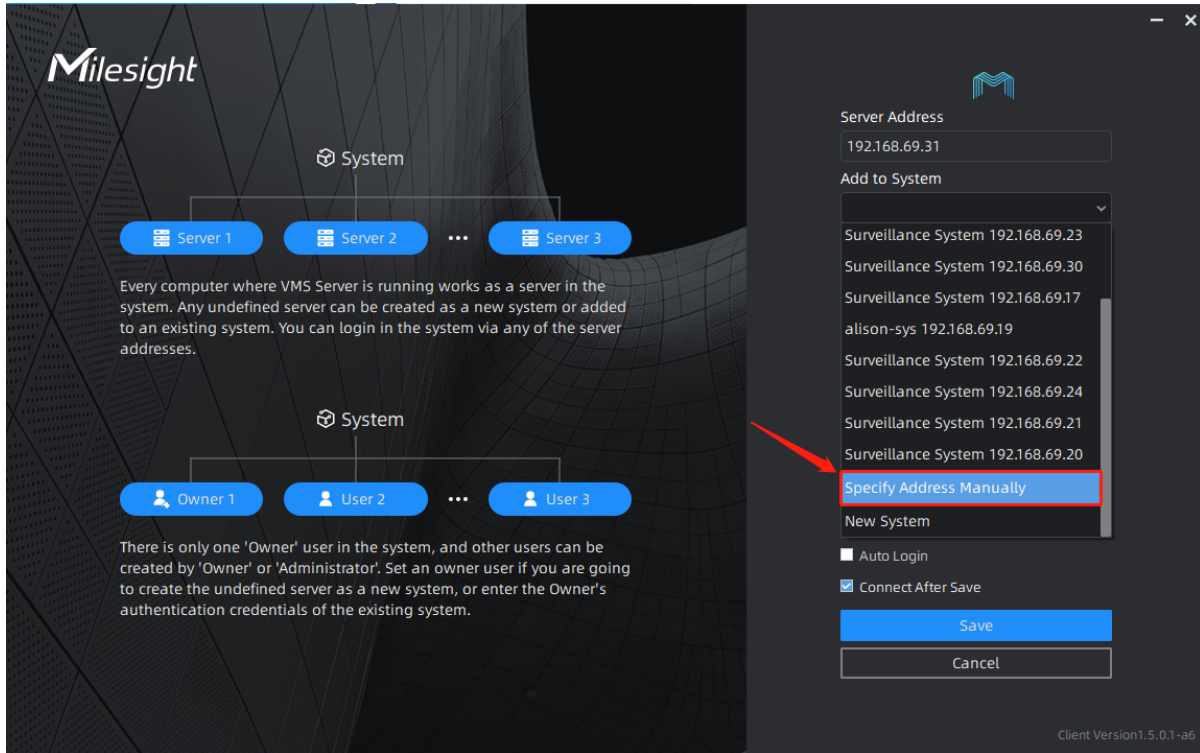


Step3: Select to add undefined server to a new system or an existing system;



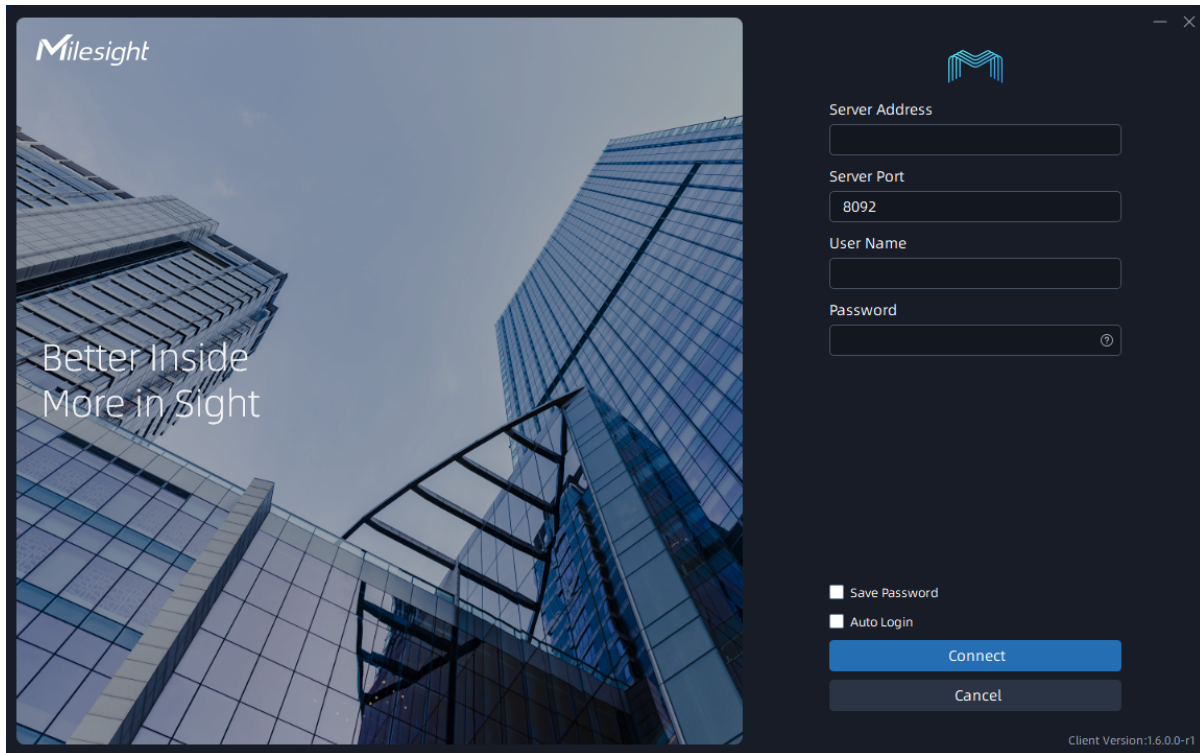
Step4: After configuring the settings, click Save button to connect. The servers will be added to VMS system successfully.

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



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

Step1: Click  and a window page show as below:

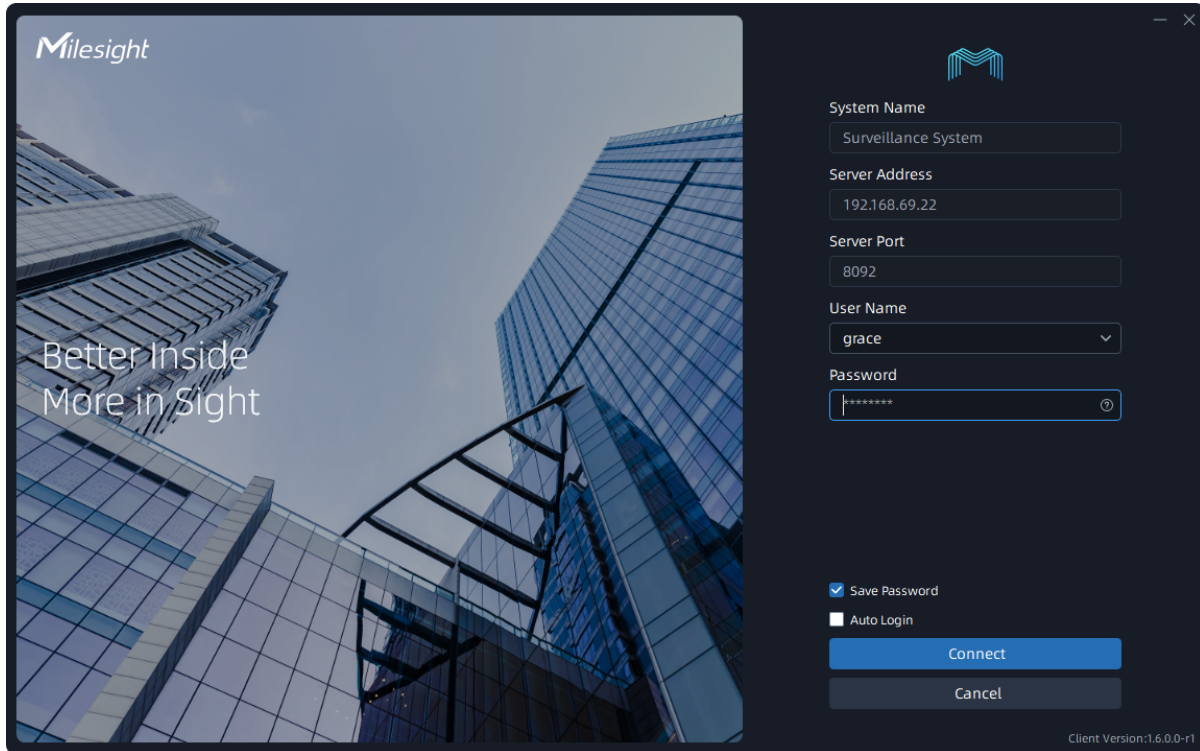


Step2: Enter server address, user name and password, and click the “Connect” button, then system which the server is added to will show in the list of login window.

 **Note:**

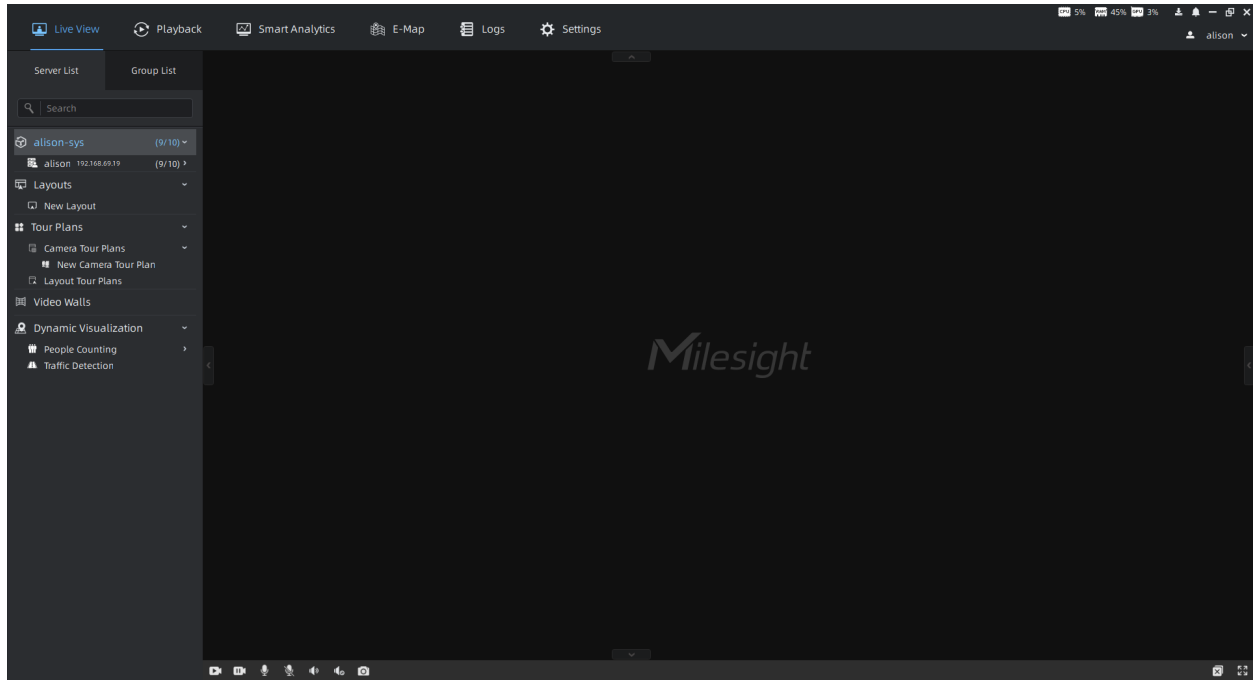
1. A VMS system can add multiple servers, but there is only a master server.
2. The created systems and undefined servers in the current local network can be automatically searched and show in the list as above. User can scroll down to choose other systems or servers in the list.

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

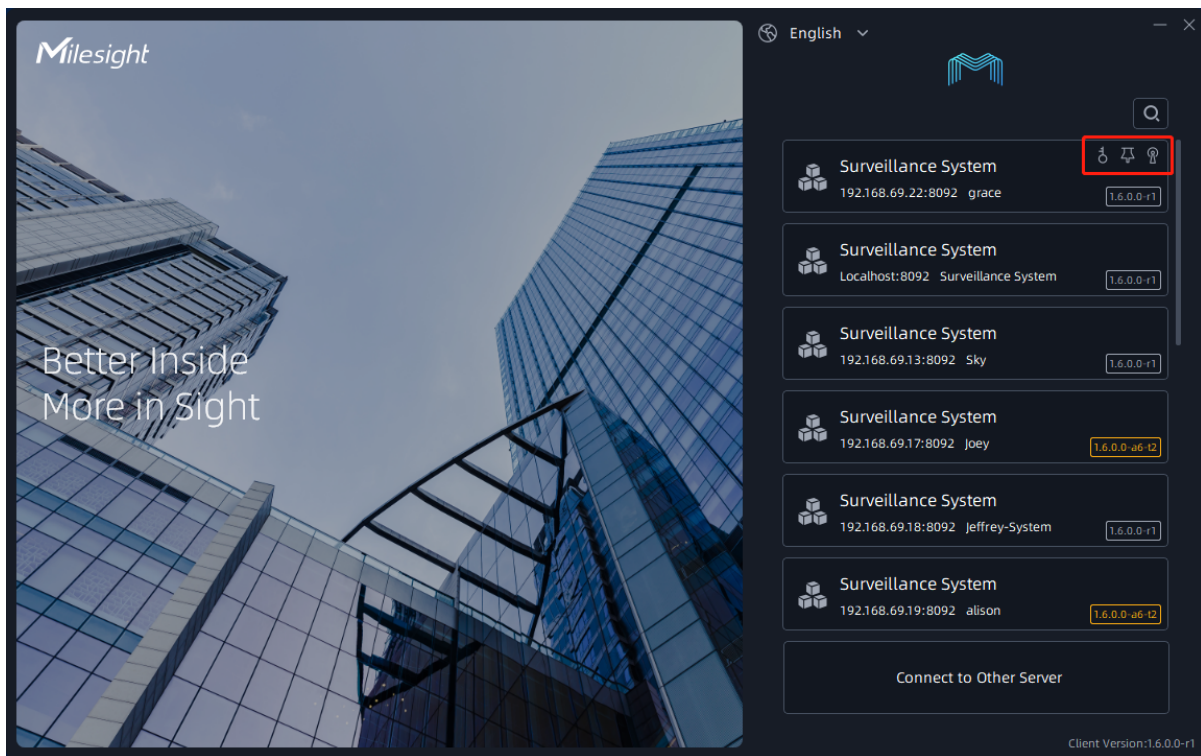


Note: If the Save Password option is checked, “Milesight VMS Enterprise Client” will log in without keying in the user name and password next time. As it supports remembering multiple accounts and passwords, you can choose one of them in the user name.


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 \(page 20\)](#).




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:

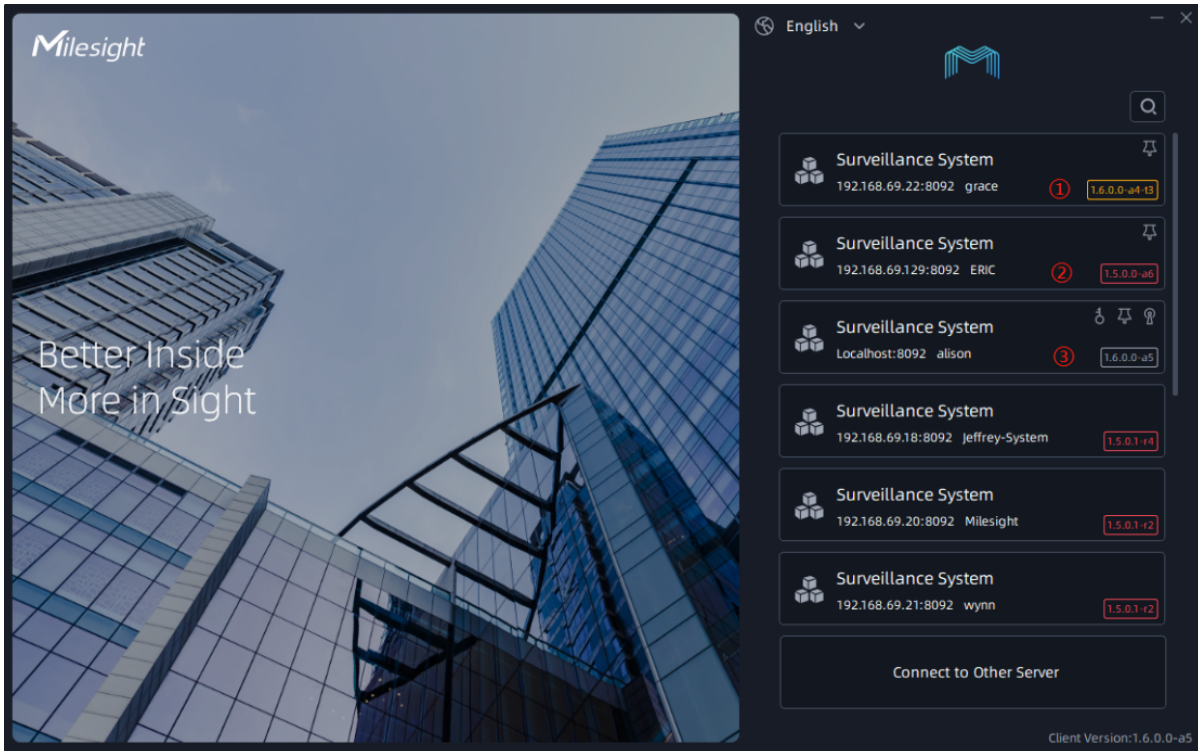


The three icons on the login page indicate the corresponding actions that have been set up by the user. For example:

 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 placed this system on top, and the later you top the system, the closer it gets to the top of the list.

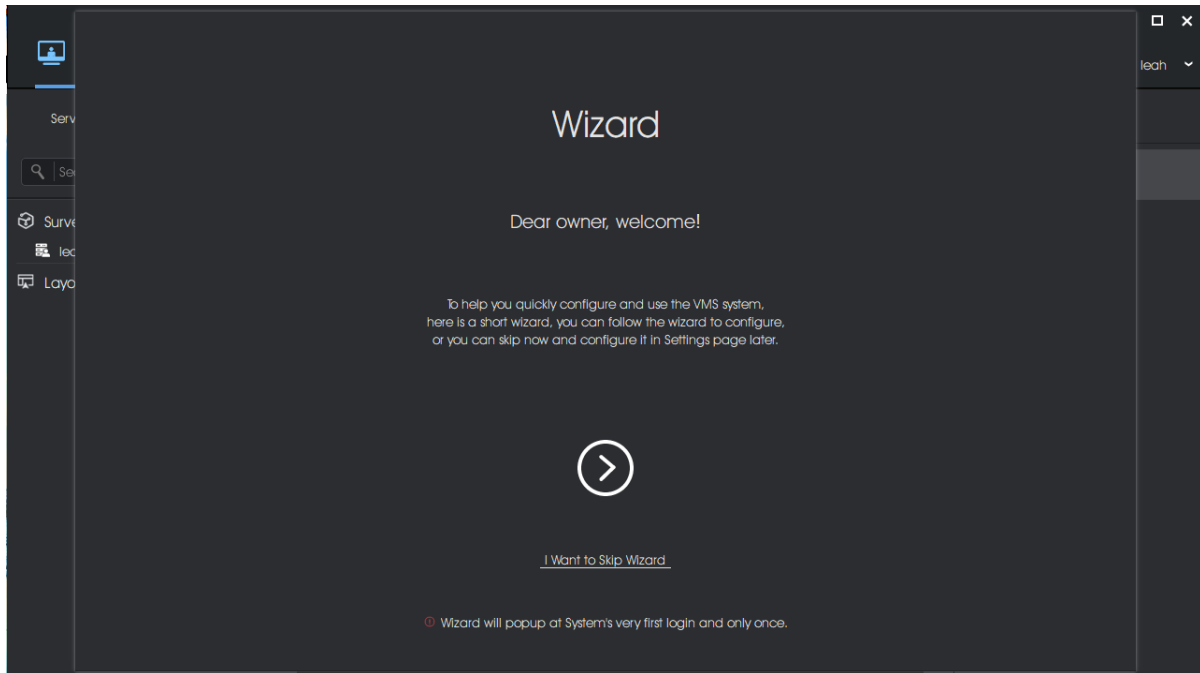
 means that you have connected to this system manually.




- 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

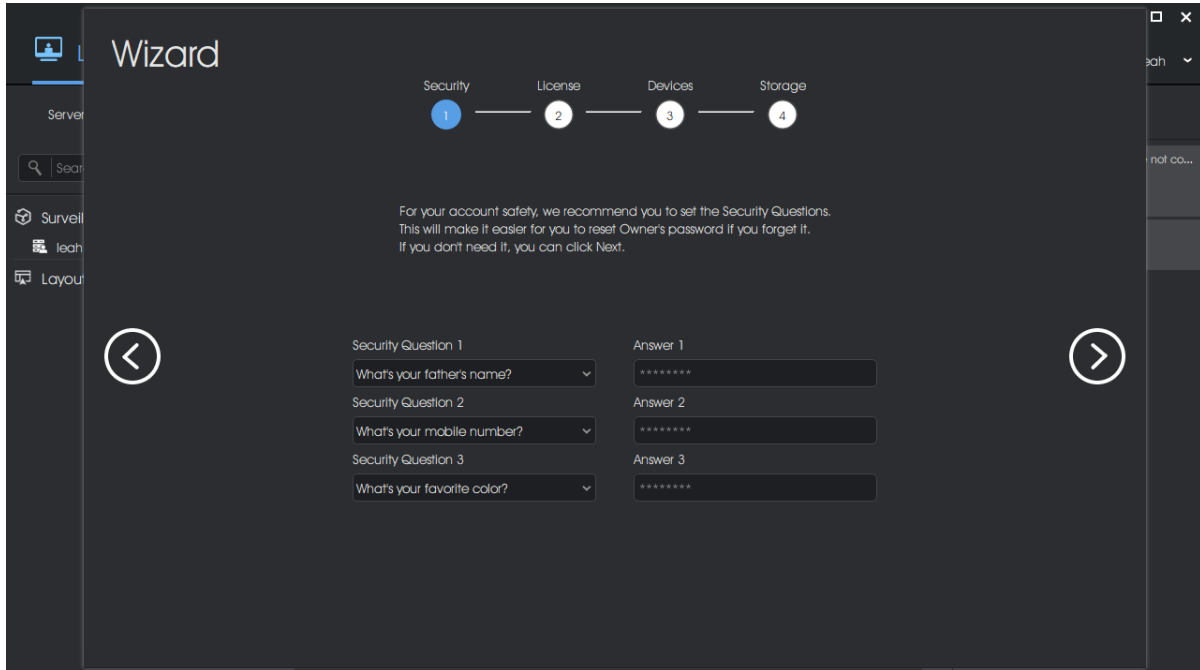
The wizard will help you to quickly configure and use the VMS system, including some basic configuration page: Security, License, Devices and Storage. If you create a new system, then there is a pop-up wizard as shown below at system's very first login and once only.





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

- **Security**

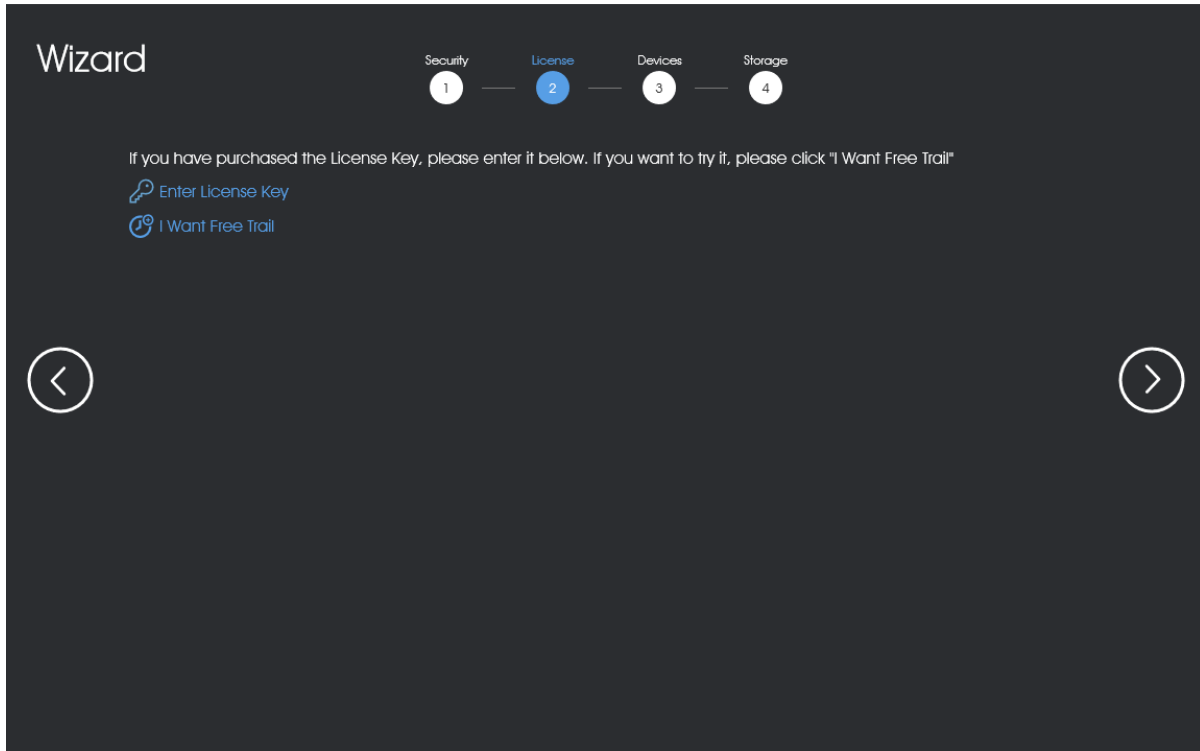
Security configuration page is to set some security questions for account safety. This will make it easier for Owner to reset password if forget it.



Here you can choose three questions from predefined questions or customize some of them, and fill in answers completely. After setting, click  to save the Security setting and enter next wizard interface. Also, If you don't need it, you can click  to directly enter next wizard. Also, you can make configuration in the Security Questions of [User Settings \(page 184\)](#).


- **License**

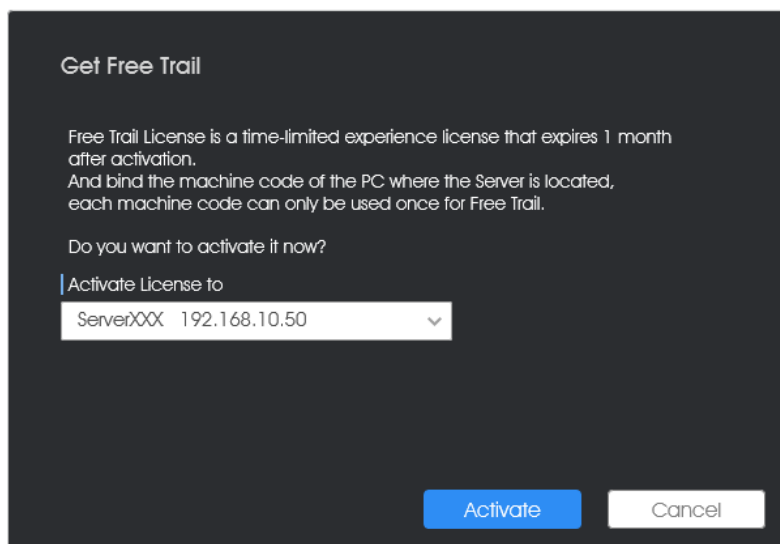
The License wizard will guide user how to activate license, which will facilitate user to add devices next. There are two options, including Enter License Key and I Want Free Trail. In addition, you can also refer to [License Activation \(page 132\)](#) to set license activation.



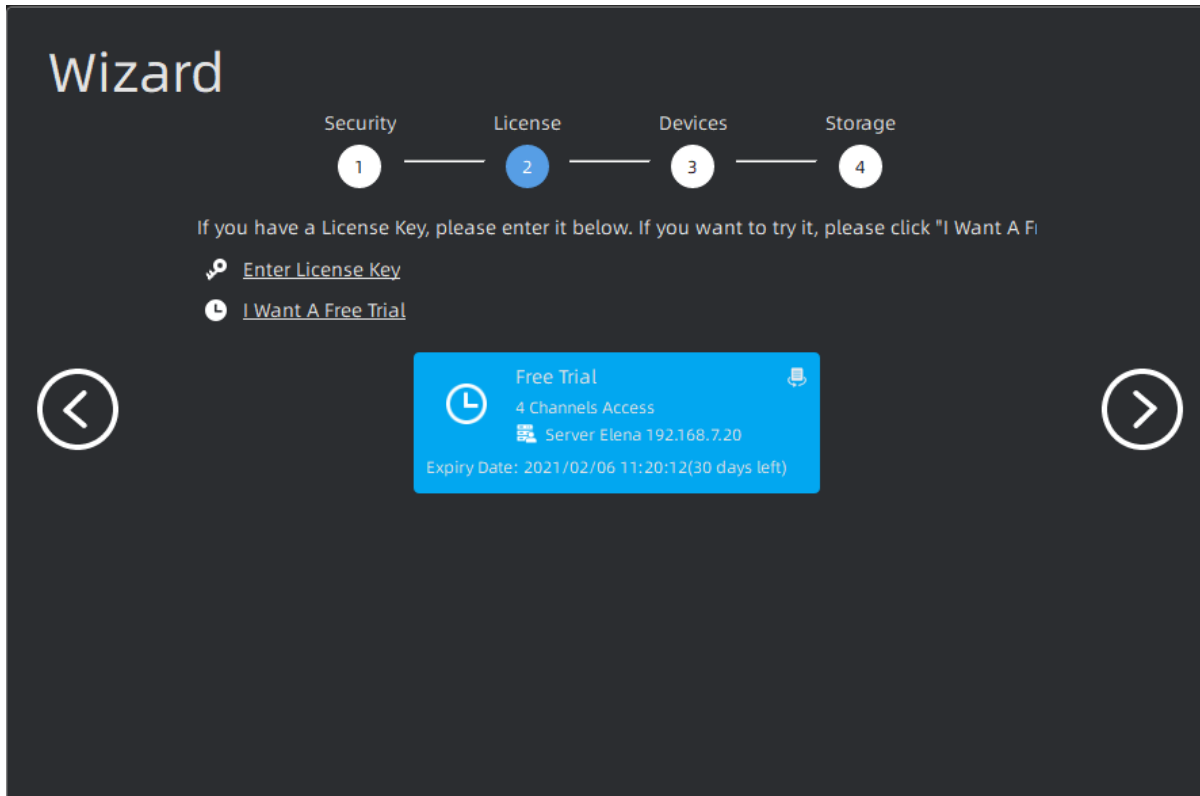
Note: Now Mliesight VMS supports three types of licenses, they are Camera License, Video Wall License and Smart Analytics License.

(1) Free Trial Activation

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



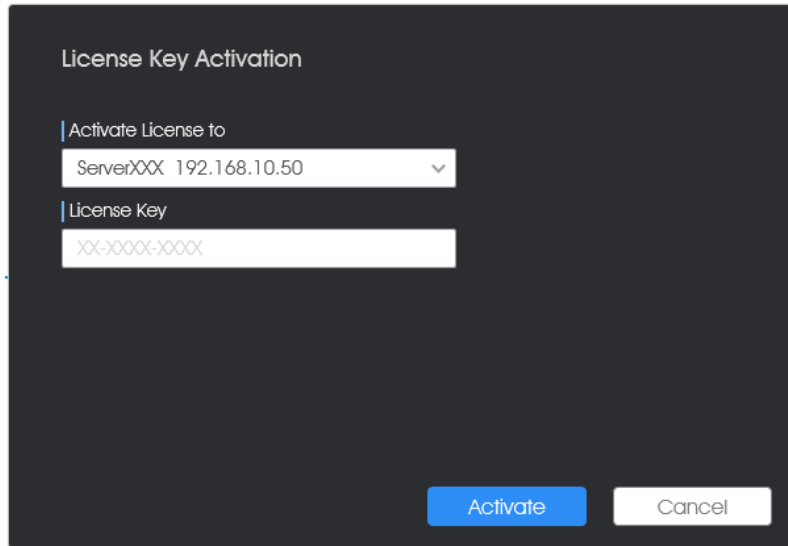
Step2: Select server which a license is registered to and click **Activate** button, then a Free Trial information card will show in the License wizard interface.



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 **Enter License Key** button and wait for several seconds, a window will pop up as shown below:




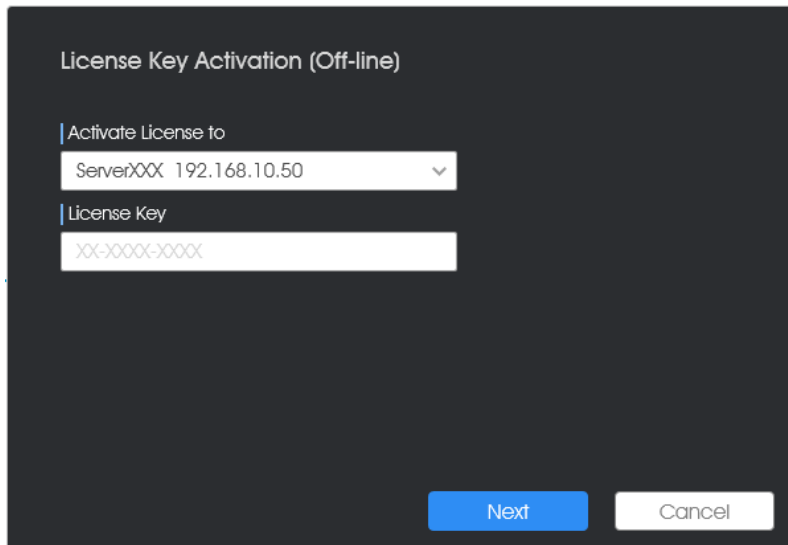
The image shows a dark-themed dialog box titled "License Key Activation". It contains two input fields: "Activate License to" with a dropdown menu showing "ServerXXX 192.168.10.50" and "License Key" with a text input field containing "XX-XXXX-XXXX". At the bottom right, there are two buttons: "Activate" (highlighted in blue) and "Cancel".

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


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

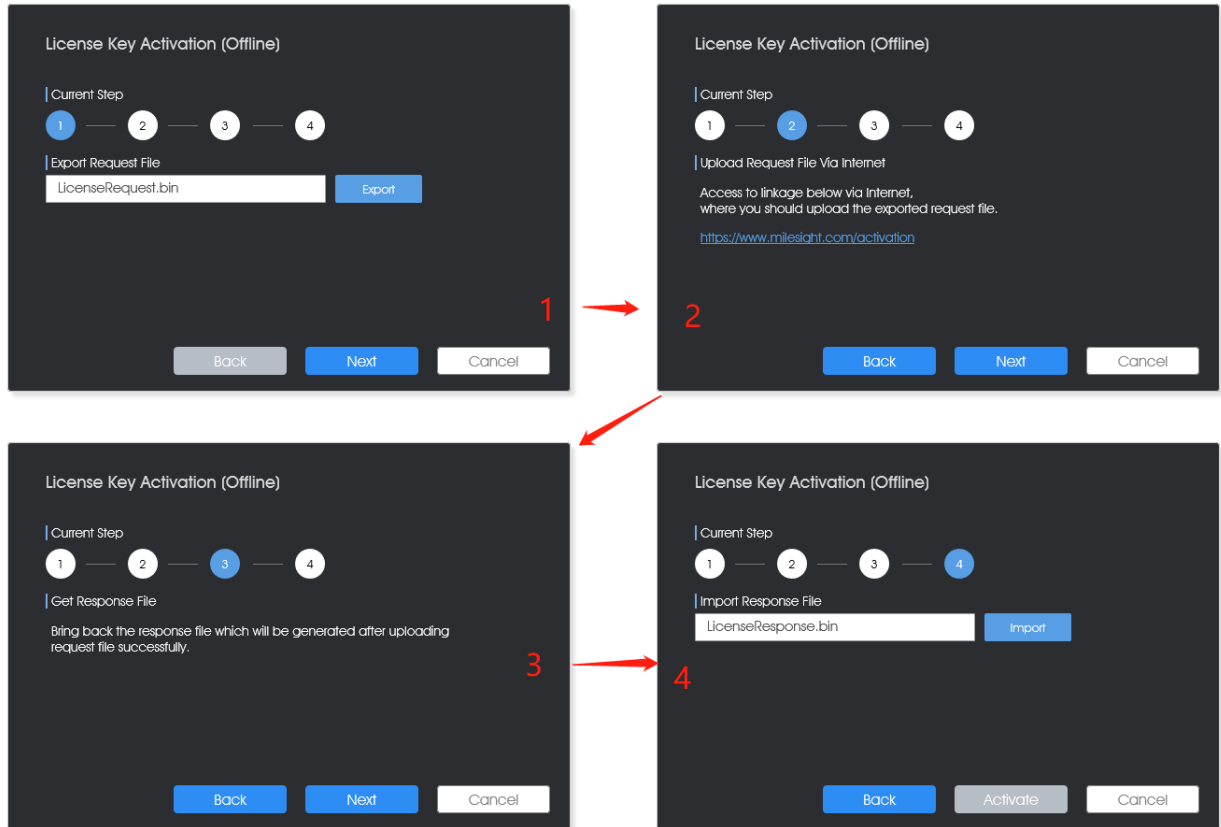
(3) Offline Activation

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



The image shows a dark-themed dialog box titled "License Key Activation (Off-line)". It contains two input fields: "Activate License to" with a dropdown menu showing "ServerXXX 192.168.10.50" and "License Key" with a text input field containing "XX-XXXX-XXXX". At the bottom right, there are two buttons: "Next" (highlighted in blue) and "Cancel".

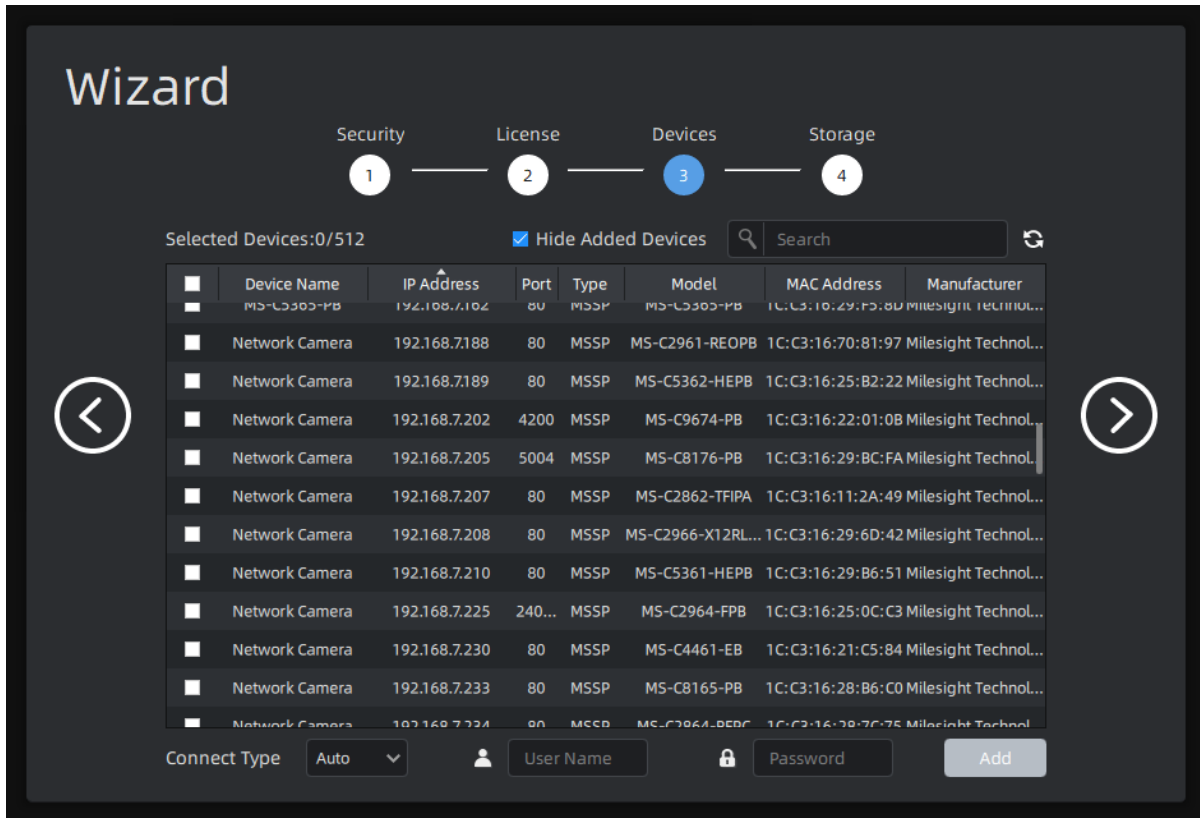
Step2: Select server and Input Activation Code, then click  button. Here you can operate according to current step tips. More operation information can refer to the [Manual Activation \(page 132\)](#) of License Activation.



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.



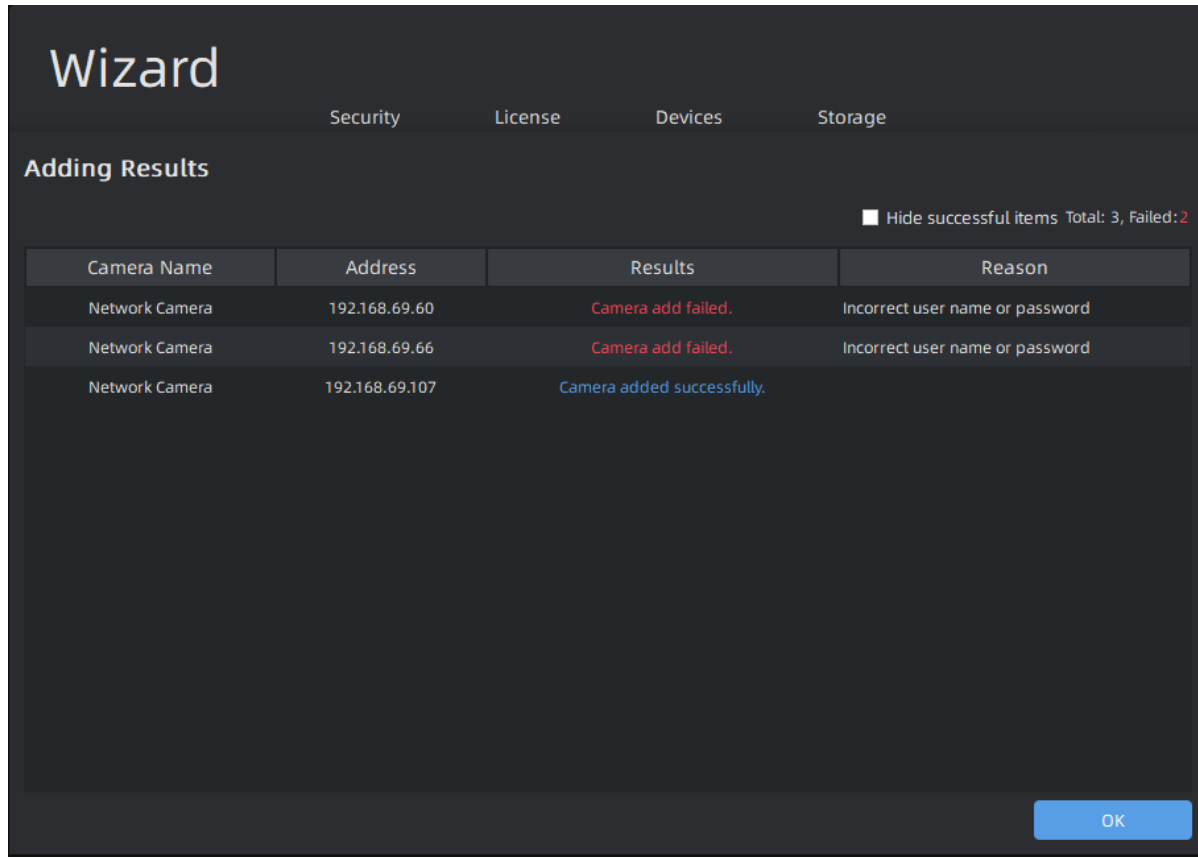
Steps of adding devices can be referred to as below:

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:

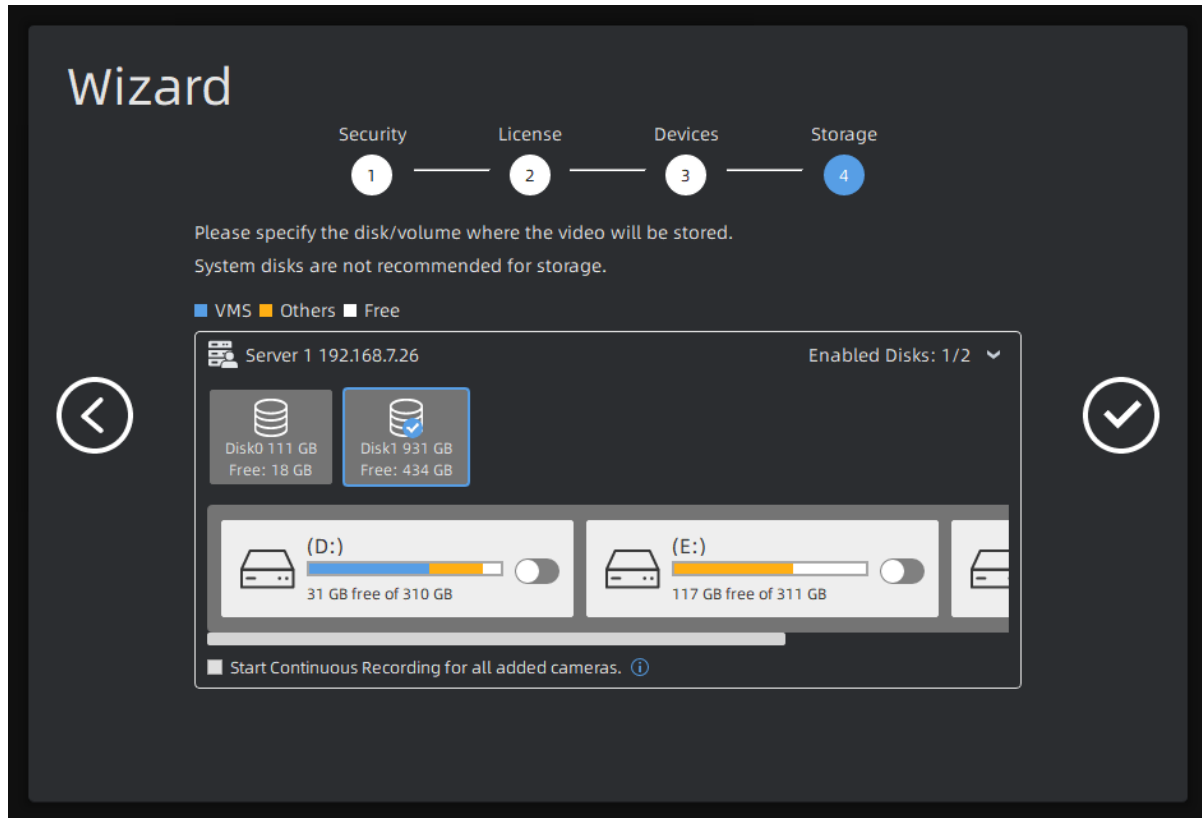


Step5: Click  button.

If you need to add device later on, then you can refer to [Device Management \(page 42\)](#) 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 [Storage Management \(page 144\)](#).

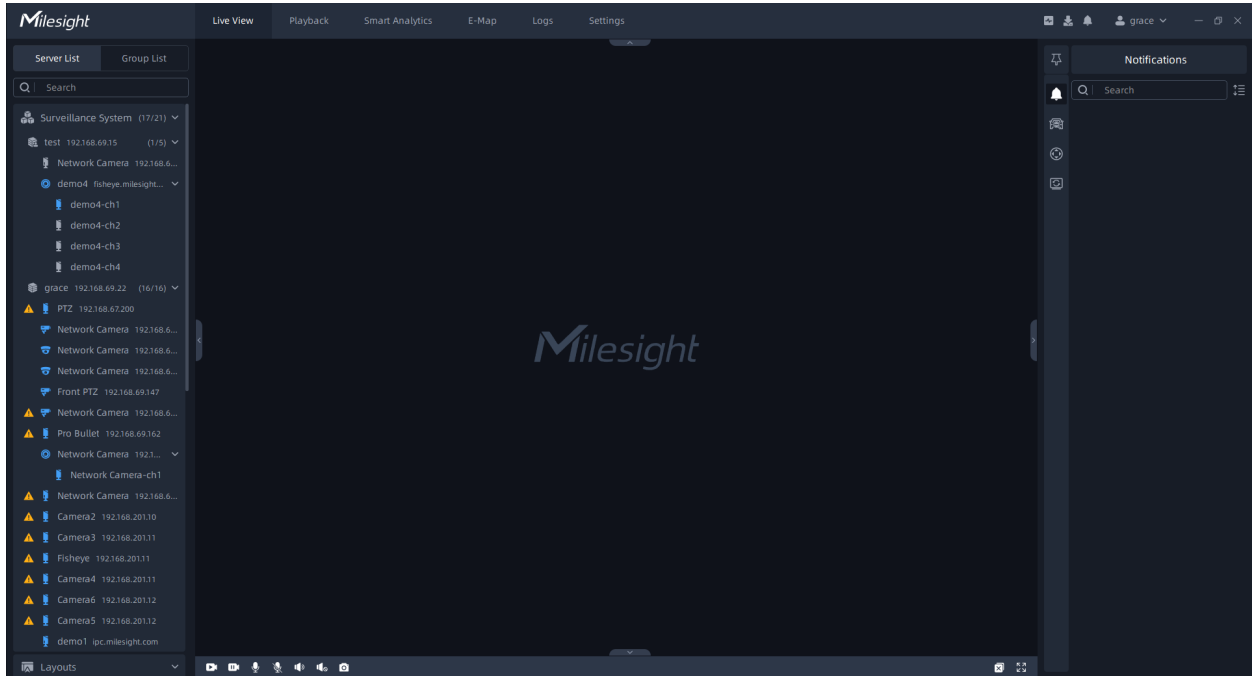


Note: If there are multiple servers in the system before entering the wizard, the disk information of multiple servers will be displayed here.

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




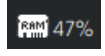
2.4.3 User Interface Introduction


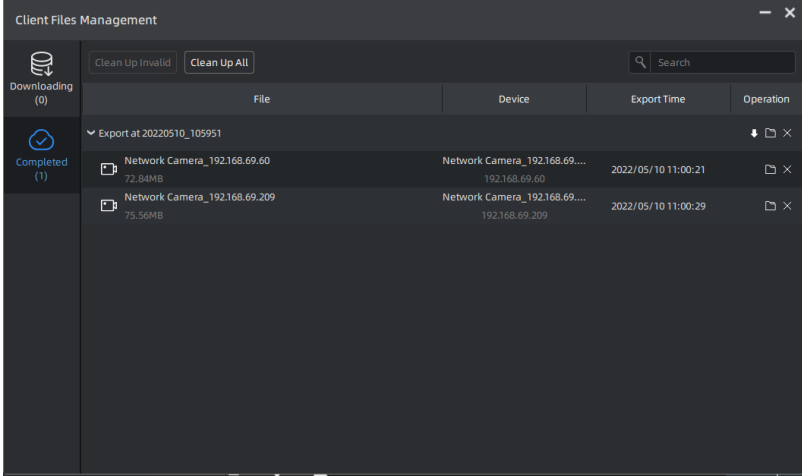




After you login the VMS system, you can see the Live View interface as shown below. The left part is device list panel, the top part is main menu panel, the right part is small function panel and the center part is Viewing panel.

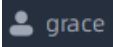

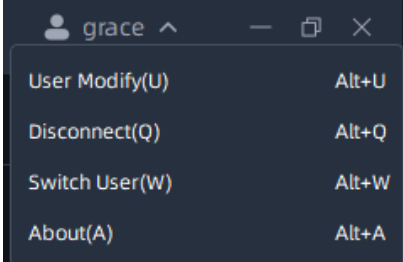
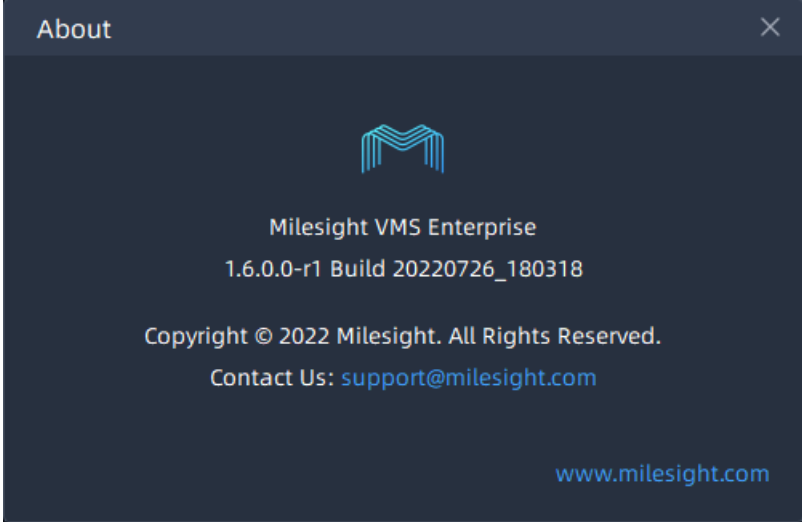


The meanings of the icons on the interface are as below:

Table 2.

Item	Function Introduction
	Hide/Show button
	To check the real-time CPU status on PC
	To check the real-time GPU status on PC
	To check the real-time RAM memory on PC

Item	Function Introduction
	<p>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.</p>  <p>Downloading: The downloading files will be viewed here.</p> <p>Completed: The downloaded files will be viewed here.</p>
	<p>Minimize the interface</p>
	<p>Restore the interface</p>
	<p>Maximize the interface</p>
	<p>Close the software</p>

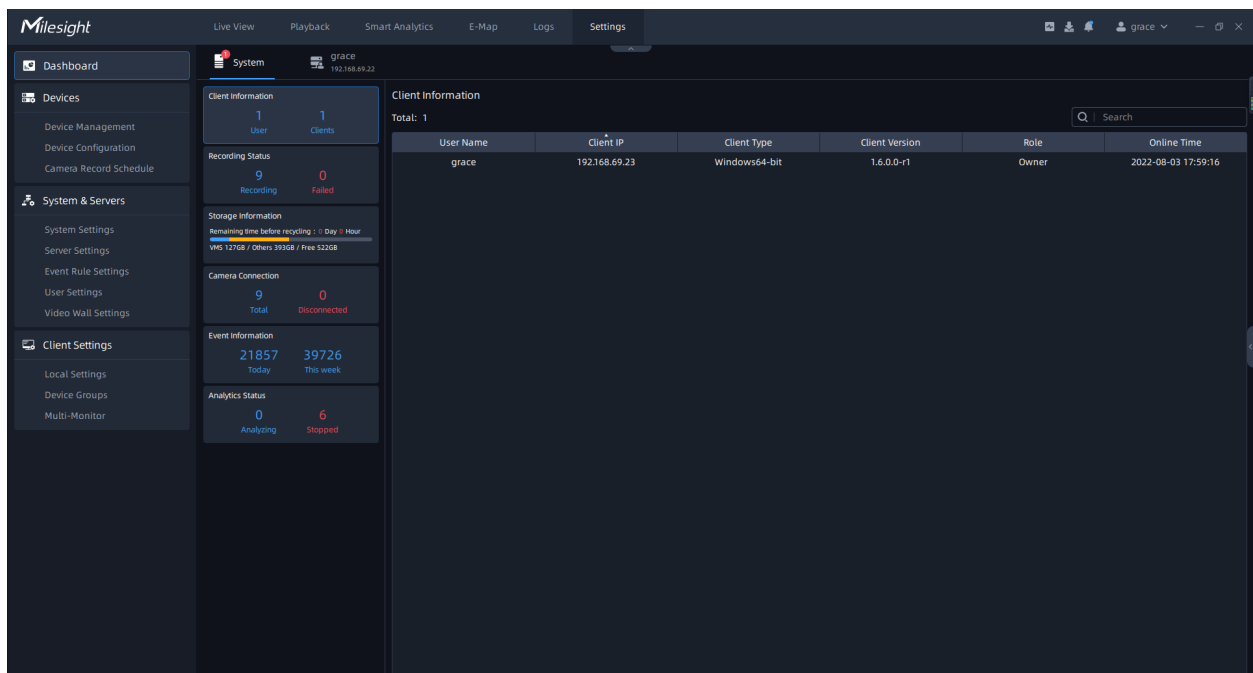
Item	Function Introduction
	<p>Display current login user name.</p> <p>Click  to pop up a user menu as below:</p>  <p>User Modify: Click the User Modify to jump to User Management (page 184)</p> <p>Disconnect: Click the button to logout the VMS client.</p> <p>About: Click the button to check Milesight VMS information about logo, version and copyright, etc., as below:</p> 

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

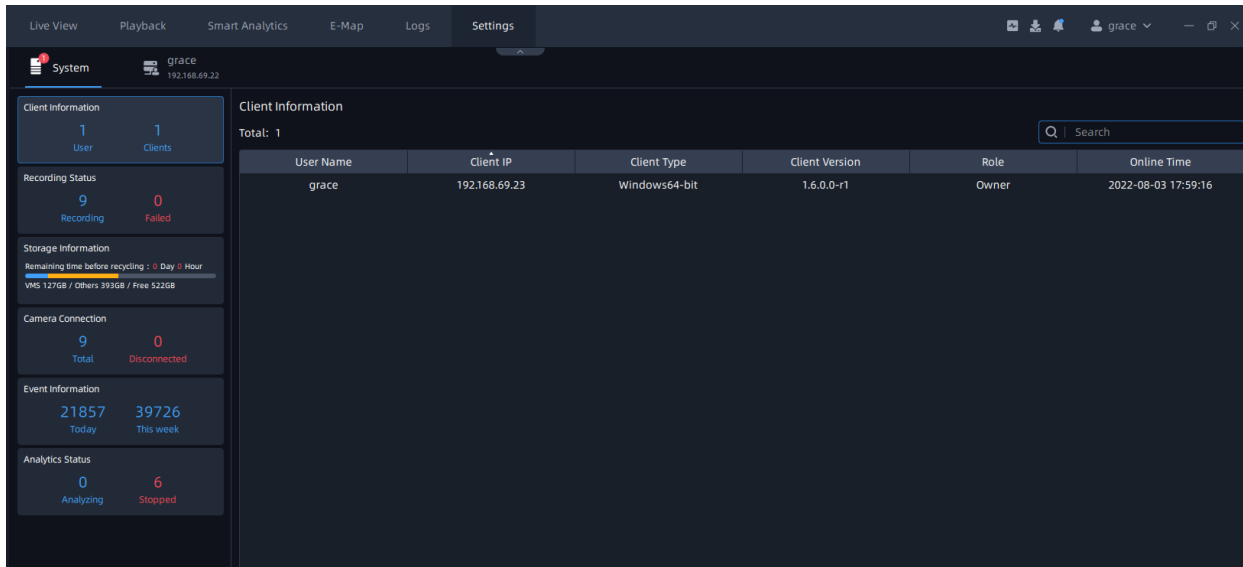
Here you can view the status and resource usage of the system and its servers. When you click “Settings->Dashboard”, the window will show as below.



3.1.1 System

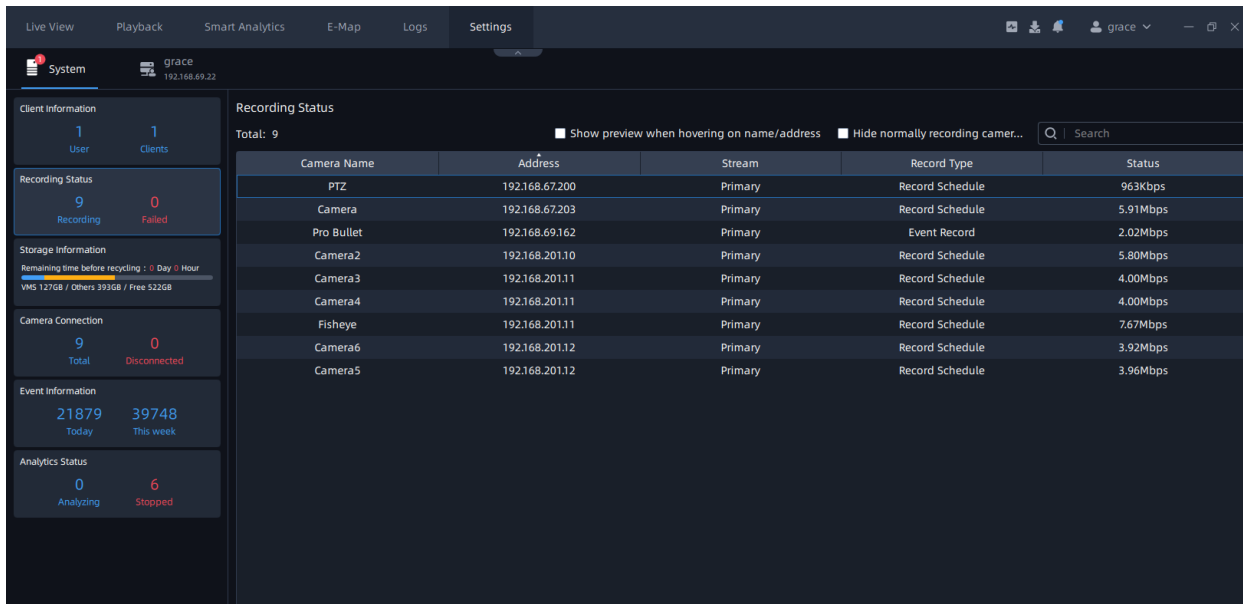
- **Client Information**

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.



• **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.

The screenshot displays the 'Settings' page for a server named 'grace'. The left sidebar contains several monitoring widgets: Client Information (1 User, 1 Clients), Recording Status (9 Recording, 0 Failed), Storage Information (Remaining time before recycling: 0 Day 0 Hour, VMS 127GB / Others 393GB / Free 522GB), Camera Connection (9 Total, 0 Disconnected), Event Information (21879 Today, 39748 This week), and Analytics Status (0 Analyzing, 6 Stopped). The main area shows 'Storage Information' for 'Server Name: grace' with a table of disk details.

Disk	Volume	Total Storage	VMS Storage Usage	Volume Status	Remaining time before recycling
disk 0	C	111.57GB	0B	Read-only	0Day/0Hour
disk 1	D	200.00GB	0B	Read-only	
disk 1	E	268.34GB	0B	Read-only	
disk 1	F	314.58GB	0B	Read-only	
disk 1	G	148.58GB	127.00GB	Read and Write	

Below the table, a note states: "The remaining time is calculated estimatedly according to the video schedule of the current accessed device, and the final result depends on the actual situation." Two buttons, "Storage Manage..." and "Storage Informat...", are located at the bottom right of the table area.

You can click [Storage Management](#) button to quickly jump to the Storage Management page in Server Settings. And you can click [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.

The screenshot shows the 'Camera Connection' settings page. The left sidebar contains the following information:

- Client Information:** 1 User, 1 Clients
- Recording Status:** 9 Recording, 0 Failed
- Storage Information:** Remaining time before recycling: 0 Day 0 Hour, VMS 127GB / Others 393GB / Free 522GB
- Camera Connection:** 9 Total, 0 Disconnected
- Event Information:** 21879 Today, 39748 This week
- Analytics Status:** 0 Analyzing, 6 Stopped

The main area shows the 'Camera Connection' table with the following data:

Camera Name	Address	Last Online Time	Status	Operation
PTZ	192.168.67.200	2022-08-03 18:48:31	Normal	
Camera	192.168.67.203	2022-08-03 18:48:31	Normal	
Pro Bullet	192.168.69.162	2022-08-03 18:48:31	Normal	
Camera2	192.168.201.10	2022-08-03 18:48:31	Normal	
Camera3	192.168.201.11	2022-08-03 18:48:31	Normal	
Camera4	192.168.201.11	2022-08-03 18:48:31	Normal	
Fisheye	192.168.201.11	2022-08-03 18:48:31	Normal	
Camera6	192.168.201.12	2022-08-03 18:48:31	Normal	
Camera5	192.168.201.12	2022-08-03 18:48:31	Normal	

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.

The screenshot shows the 'Camera Connection' settings page with the 'Show preview when hovering on name/address' checkbox checked. The 'Pro Bullet' camera row now displays a preview thumbnail of the camera's view.

Camera Name	Address	Last Online Time	Status	Operation
PTZ	192.168.67.200	2022-08-03 18:49:02	Normal	
Camera	192.168.67.203	2022-08-03 18:49:02	Normal	
Pro Bullet	192.168.69.162	2022-08-03 18:49:02	Normal	
Camera2		2022-08-03 18:49:02	Normal	
Camera3		2022-08-03 18:49:02	Normal	
Camera4		2022-08-03 18:49:02	Normal	
Fisheye		2022-08-03 18:49:02	Normal	
Camera6		2022-08-03 18:49:02	Normal	
Camera5		2022-08-03 18:49:02	Normal	

• 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.

The screenshot displays the 'Settings' page of the Video Management System Enterprise. The interface is divided into several sections:

- System Header:** Shows 'Live View', 'Playback', 'Smart Analytics', 'E-Map', 'Logs', and 'Settings' tabs. The user 'grace' is logged in.
- Client Information:** 1 User, 1 Clients.
- Recording Status:** 9 Recording, 0 Failed.
- Storage Information:** Remaining time before recycling: 0 Day 0 Hour. VMS 127GB / Others 393GB / Free 522GB.
- Camera Connection:** 9 Total, 0 Disconnected.
- Event Information Summary:** 21906 Today, 39775 This week.
- Analytics Status:** 0 Analyzing, 6 Stopped.
- Event Information List:** A list of event triggers with their counts for the period 2022/08/03 00:00:00 ~ 2022/08/03 23:59:59.
 - Motion Detection: 17349
 - VCA - Line Crossing: 1924
 - Analytics - Motion Detection: 2424
 - Analytics - Region Entrance: 80

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

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

Table 3.

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.



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

• Recording Status

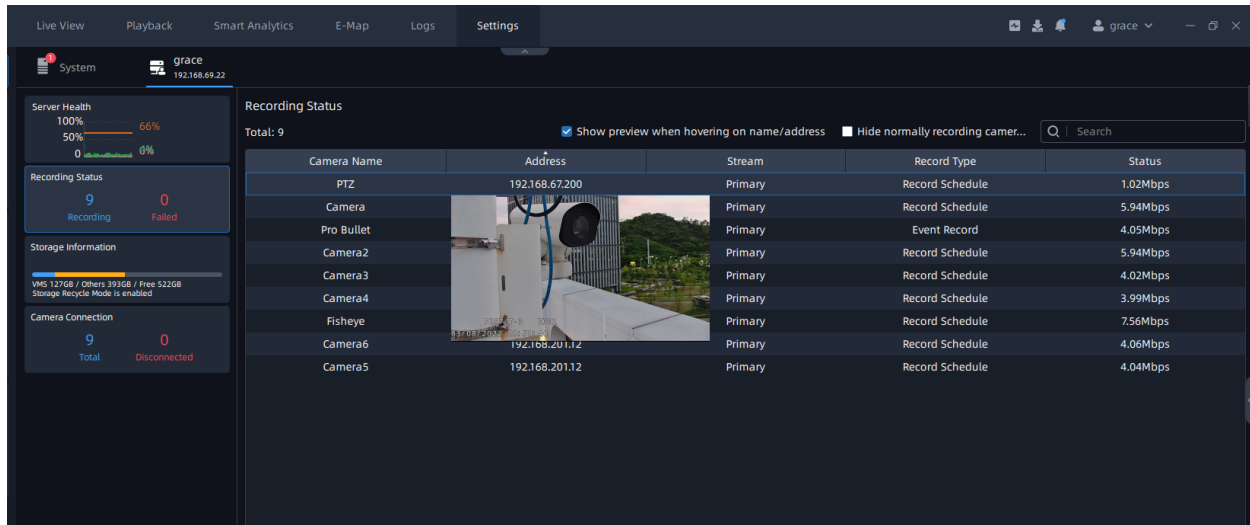
You can check the recording status of each channel in the server. In the left panel, you can see the total number of current recordings and the total number of failed recordings in the server. And you can view the details including the Camera Name, IP Address, Stream, Record Type and Status as below.

The screenshot displays the 'Recording Status' section in the VMS Enterprise Settings interface. The left sidebar provides a summary of system metrics, while the main panel shows a detailed table of recording status for each camera.

Camera Name	Address	Stream	Record Type	Status
PTZ	192.168.67.200	Primary	Record Schedule	1004Kbps
Camera	192.168.67.203	Primary	Record Schedule	6.05Mbps
Pro Bullet	192.168.69.162	Primary	Event Record	2.83Mbps
Camera2	192.168.201.10	Primary	Record Schedule	5.90Mbps
Camera3	192.168.201.11	Primary	Record Schedule	3.98Mbps
Camera4	192.168.201.11	Primary	Record Schedule	4.05Mbps
Fisheye	192.168.201.11	Primary	Record Schedule	7.85Mbps
Camera6	192.168.201.12	Primary	Record Schedule	3.93Mbps
Camera5	192.168.201.12	Primary	Record Schedule	3.95Mbps

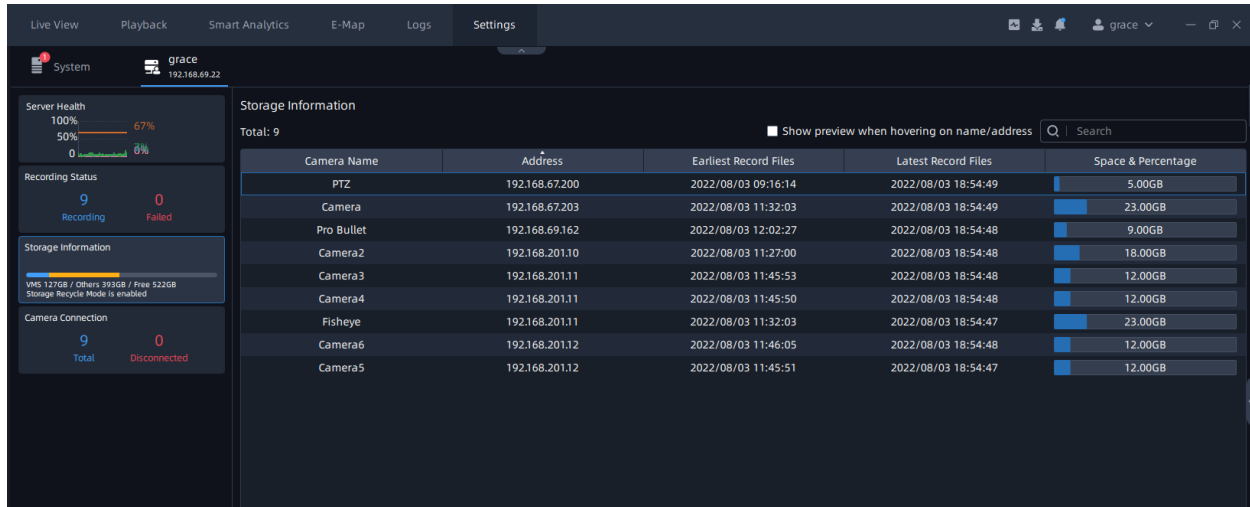
When there are too many cameras in the system, you can check "Hide Normally Recording Cameras" to focus only on the failed recordings.

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.

Camera Name	Address	Earliest Record Files	Latest Record Files	Space & Percentage
PTZ	192.168.67.200	2022/08/03 09:16:14	2022/08/03 18:55:49	5.00GB
Camera	192.168.67.203	2022/08/03 11:32:03	2022/08/03 18:55:49	23.00GB
Pro Bullet	192.168.69.162	2022/08/03 12:02:27	2022/08/03 18:55:48	9.00GB
Camera2	192.168.201.10	2022/08/03 11:27:00	2022/08/03 18:55:48	18.00GB
Camera3	192.168.201.11		2/08/03 18:55:48	12.00GB
Camera4	192.168.201.11		2/08/03 18:55:48	12.00GB
Fisheye	192.168.201.11		2/08/03 18:55:49	23.00GB
Camera6	192.168.201.12		2/08/03 18:55:48	12.00GB
Camera5	192.168.201.12		2/08/03 18:55:47	12.00GB

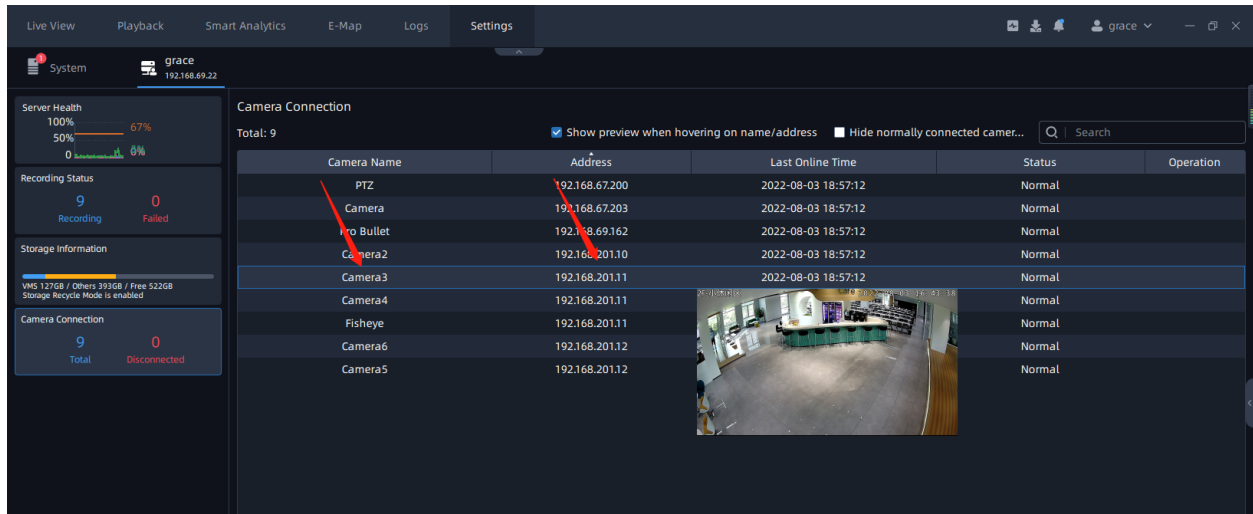
• Camera Connection

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.


Camera Name	Address	Last Online Time	Status	Operation
PTZ	192.168.67.200	2022-08-03 18:56:42	Normal	
Camera	192.168.67.203	2022-08-03 18:56:42	Normal	
Pro Bullet	192.168.69.162	2022-08-03 18:56:42	Normal	
Camera2	192.168.201.10	2022-08-03 18:56:42	Normal	
Camera3	192.168.201.11	2022-08-03 18:56:42	Normal	
Camera4	192.168.201.11	2022-08-03 18:56:42	Normal	
Fisheye	192.168.201.11	2022-08-03 18:56:42	Normal	
Camera6	192.168.201.12	2022-08-03 18:56:42	Normal	
Camera5	192.168.201.12	2022-08-03 18:56:42	Normal	

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.



Note:

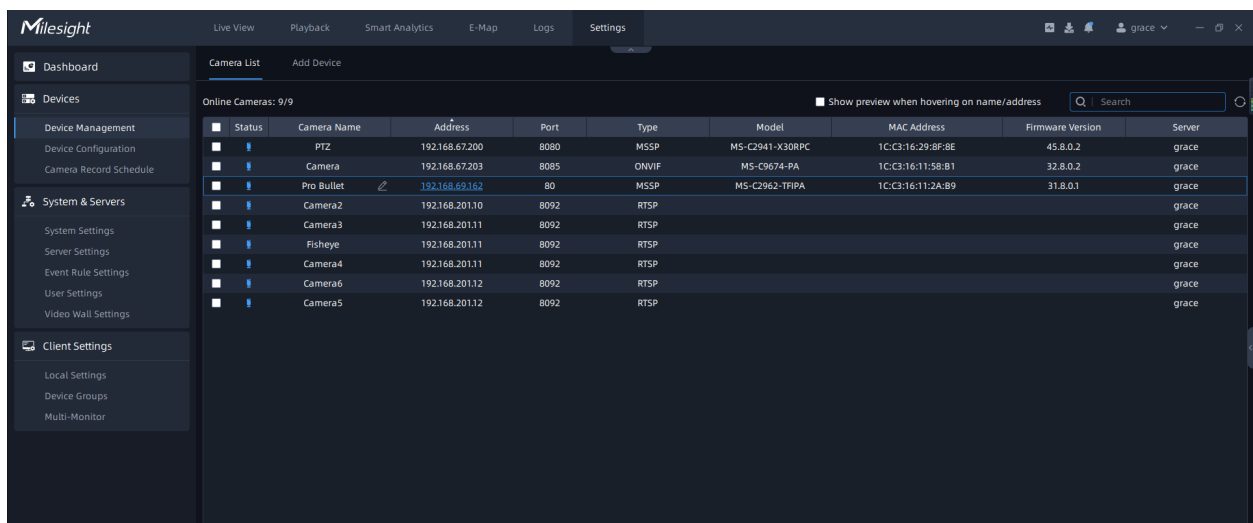
- The number on the label indicates the number of abnormal cards on this page.
-  indicates that the server is offline.

3.2 Devices

3.2.1 Device 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->Device Management” button, the window will show as below:



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.

Device Name	Address	Port	Type	Model	MAC Address	Manufacturer
Network Camera	192.168.69.61	80	MSSP	MS-C2963-LPB	1C:C3:16:20:10:43	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.76	80	MSSP	MS-C4473-PB	1C:C3:16:21:03:BE	Milesight Technology Co.,Ltd.
Network Cam	192.168.69.96	80	MSSP	MS-C2964-FPB	1C:C3:16:24:09:D2	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.97	80	MSSP	MS-C5375-EPB	1C:C3:16:24:60:AA	Milesight Technology Co.,Ltd.
Network Camer	192.168.69.98	80	MSSP	MS-C5367-X23PC	1C:C3:16:2A:06:91	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.117	80	MSSP	MS-C2962-FPB	1C:C3:16:21:09:48	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.125	80	MSSP	MS-C2975-PB	1C:C3:16:24:60:F7	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.151	80	MSSP	MS-C2872-RFPA	1C:C3:16:11:64:67	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.153	80	MSSP	MS-C3263-FPC	1C:C3:16:2A:FA:EE	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.193	80	MSSP	MS-C2973-SPB	1C:C3:16:28:8C:87	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.209	80	MSSP	MS-C5361-HEPB	1C:C3:16:29:86:51	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.211	80	MSSP	MS-C2962-RFPC	1C:C3:16:20:00:66	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.217	80	MSSP	MS-C5362-EPB	1C:C3:16:23:C8:4D	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.222	80	MSSP	MS-C2967-X23RPC	1C:C3:16:28:C4:C9	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.238	80	MSSP	MS-C5376-PA	1C:C3:16:11:2D:68	Milesight Technology Co.,Ltd.
FULSuPo Camera	192.168.69.241	80	MSSP	MS-C2964-PD	1C:C3:16:40:23:75	Milesight Technology Co.,Ltd.
IP Camera	192.168.69.242	80	MSSP	MS-C5383-PD	1C:C3:16:40:07:EF	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.244	80	MSSP	MS-C2971-X12RPC	1C:C3:16:2C:2D:75	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.245	8083	MSSP	MS-C2967-X23RLPC	1C:C3:16:28:C4:B9	Milesight Technology Co.,Ltd.
Network HD camera	192.168.69.246	8084	MSSP	MS-C2962-TELPA	1C:C3:16:11:58:B6	Milesight Technology Co.,Ltd.
Network Camera	192.168.69.251	80	MSSP	MS-C8163-PC	1C:C3:16:2C:EA:0D	Milesight Technology Co.,Ltd.
Third-party Compatibility ...	192.168.69.252	80	MSSP	MS-C8176-PA	1C:C3:16:11:31:8C	Milesight Technology Co.,Ltd.
Third-party Compatibility ...	192.168.69.253	80	MSSP	MS-C5373-PB	1C:C3:16:28:85:D9	Milesight Technology Co.,Ltd.

- 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: Auto | *Protocol: ONVIF


*IP/Address: | *Port: 80

*Connect Type: Auto | *Server: Auto Assign

*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:

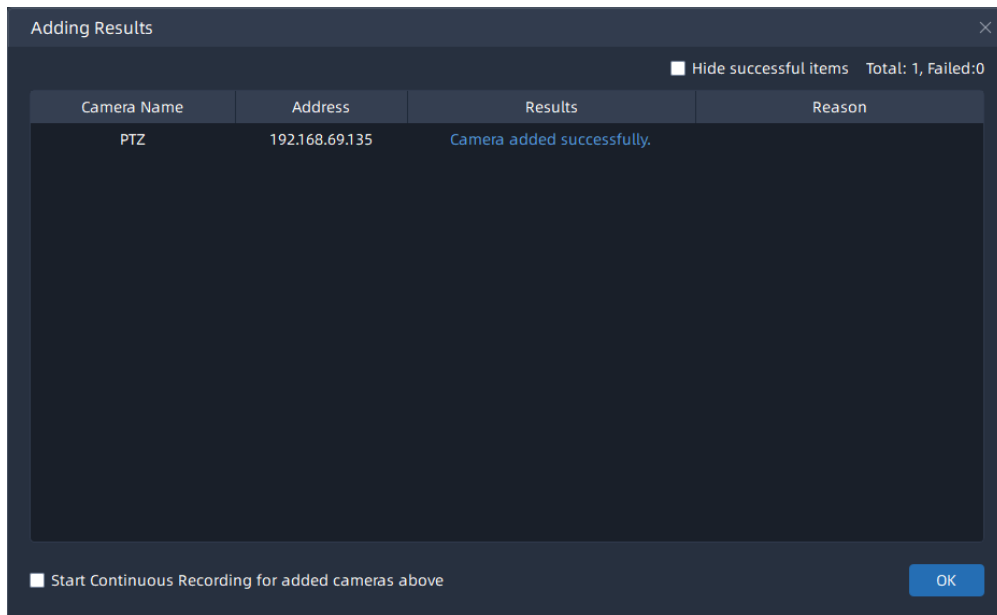
Adding Results

Hide successful items Total: 1, Failed: 1

Camera Name	Address	Results	Reason
PTZ	192.168.69.135	Camera add failed.	Incorrect user name or password

Start Continuous Recording for added cameras above

OK

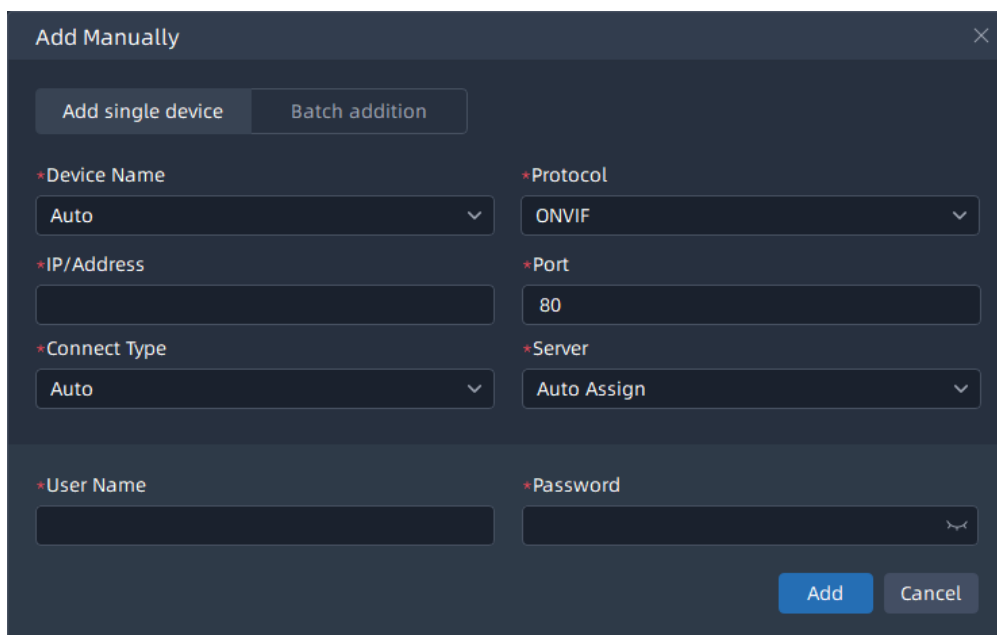


Note: You can select the check box at the bottom to start continuous recording for added cameras.

Step6: Click **OK** button.


(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:



Step2:Enter device information;

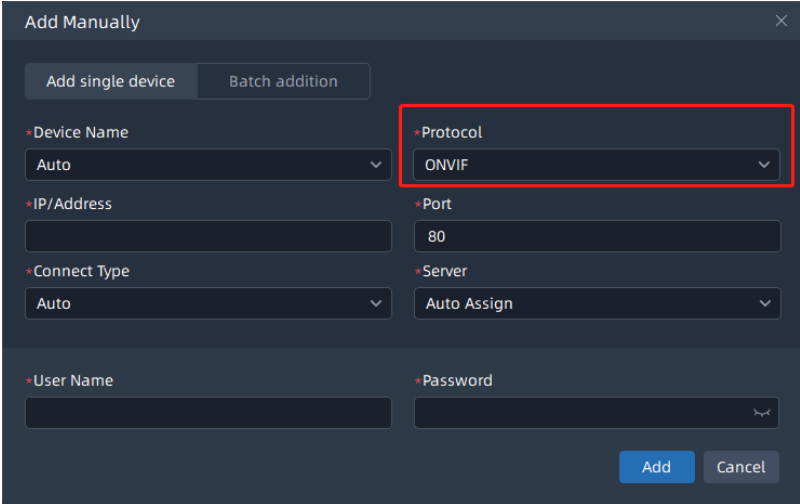
 **Note:** Those blank box must be filled, including Device Name, IP/Address, Port, User Name and Password.

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

Step4:Click  button.

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

- ONVIF Protocol page:



The screenshot shows a dark-themed dialog box titled "Add Manually" with a close button (X) in the top right corner. At the top, there are two tabs: "Add single device" (selected) and "Batch addition". Below the tabs, there are several input fields and dropdown menus:

- *Device Name: A dropdown menu with "Auto" selected.
- *Protocol: A dropdown menu with "ONVIF" selected, highlighted by a red rectangular box.
- *IP/Address: An empty text input field.
- *Port: A text input field with "80" entered.
- *Connect Type: A dropdown menu with "Auto" selected.
- *Server: A dropdown menu with "Auto Assign" selected.
- *User Name: An empty text input field.
- *Password: An empty text input field with a small eye icon on the right.

At the bottom right of the dialog, there are two buttons: "Add" (highlighted in blue) and "Cancel".

- MSSP Protocol page:

The screenshot shows a dark-themed dialog box titled "Add Manually" with a close button (X) in the top right corner. At the top, there are two tabs: "Add single device" (selected) and "Batch addition". The form contains several fields:

- *Device Name: A dropdown menu with "Auto" selected.
- *Protocol: A dropdown menu with "MSSP" selected, highlighted by a red rectangular box.
- *IP/Address: An empty text input field.
- *Port: A text input field with "80" entered.
- *Connect Type: A dropdown menu with "Auto" selected.
- *Server: A dropdown menu with "Auto Assign" selected.
- *User Name: An empty text input field.
- *Password: An empty text input field with a small eye icon on the right.

At the bottom right, there are two buttons: "Add" (highlighted in blue) and "Cancel".

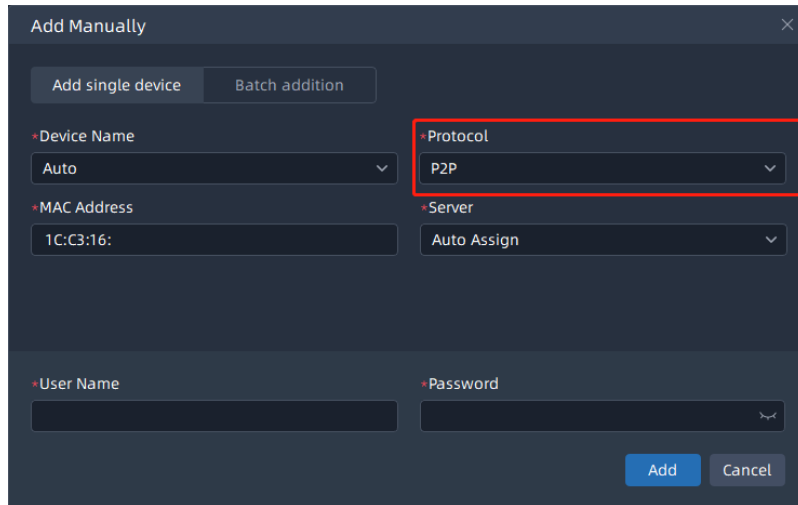
- RTSP Protocol page:

The screenshot shows a dark-themed dialog box titled "Add Manually" with a close button (X) in the top right corner. At the top, there are two tabs: "Add single device" (selected) and "Batch addition". The form contains several fields:

- *Device Name: An empty text input field.
- *Protocol: A dropdown menu with "RTSP" selected, highlighted by a red rectangular box.
- *RTSP Main Address: A dropdown menu with "Primary Stream" selected.
- RTSP Sub Address: A dropdown menu with "Secondary Stream" selected.
- *Connect Type: A dropdown menu with "Auto" selected.
- *Server: A dropdown menu with "Auto Assign" selected.
- *User Name: An empty text input field.
- *Password: An empty text input field with a small eye icon on the right.

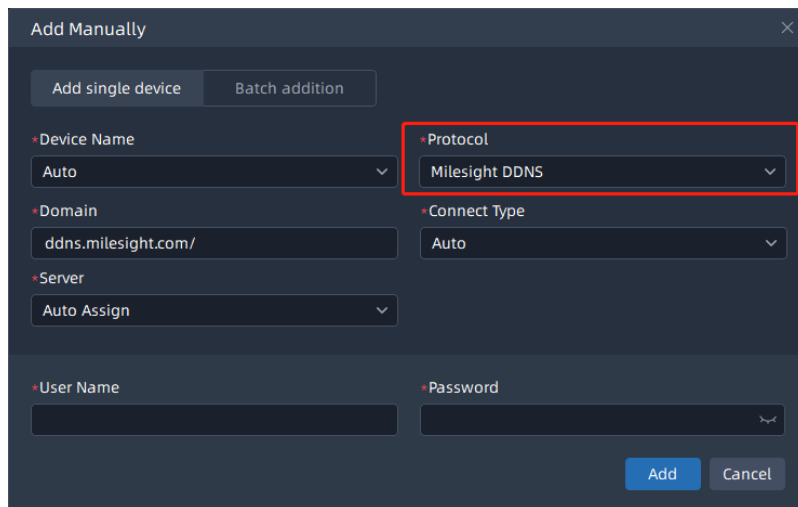
At the bottom right, there are two buttons: "Add" (highlighted in blue) and "Cancel".

- P2P Protocol page:




The screenshot shows a dark-themed 'Add Manually' dialog box. At the top, there are two tabs: 'Add single device' (selected) and 'Batch addition'. Below the tabs, there are several fields: '*Device Name' with a dropdown menu set to 'Auto'; '*Protocol' with a dropdown menu set to 'P2P', which is highlighted with a red rectangular box; '*MAC Address' with a text input field containing '1C:C3:16:'; '*Server' with a dropdown menu set to 'Auto Assign'; '*User Name' with an empty text input field; and '*Password' with an empty password input field. At the bottom right, there are two buttons: 'Add' (highlighted in blue) and 'Cancel'.

- Milesight DDNS page:

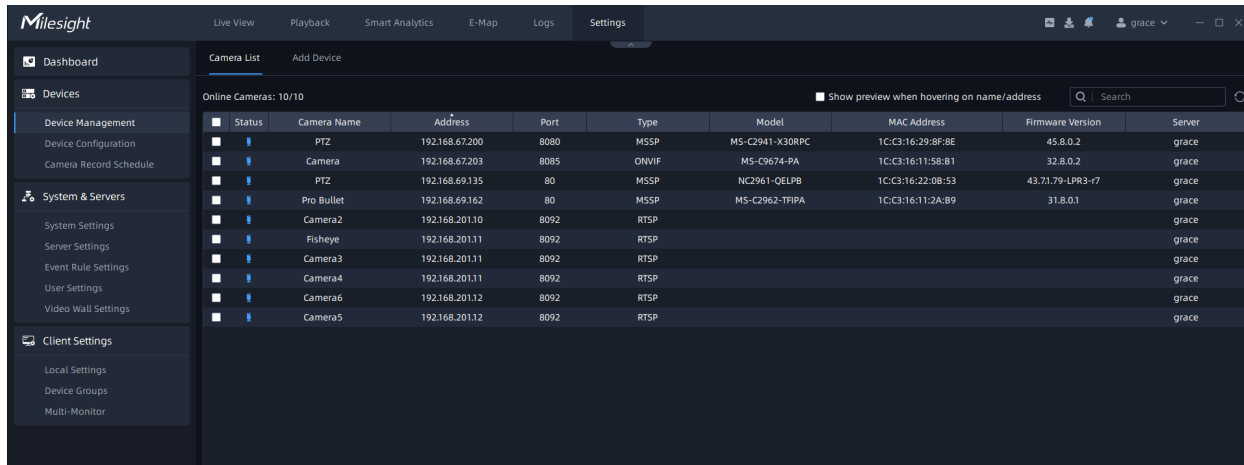


The screenshot shows a dark-themed 'Add Manually' dialog box. At the top, there are two tabs: 'Add single device' (selected) and 'Batch addition'. Below the tabs, there are several fields: '*Device Name' with a dropdown menu set to 'Auto'; '*Protocol' with a dropdown menu set to 'Milesight DDNS', which is highlighted with a red rectangular box; '*Domain' with a text input field containing 'ddns.milesight.com/'; '*Connect Type' with a dropdown menu set to 'Auto'; '*Server' with a dropdown menu set to 'Auto Assign'; '*User Name' with an empty text input field; and '*Password' with an empty password input field. At the bottom right, there are two buttons: 'Add' (highlighted in blue) and 'Cancel'.

 **Note:** Before you register Milesight VMS software, you can only add up to 4 channels. For more information, please refer to [License Activation \(page 132\)](#).

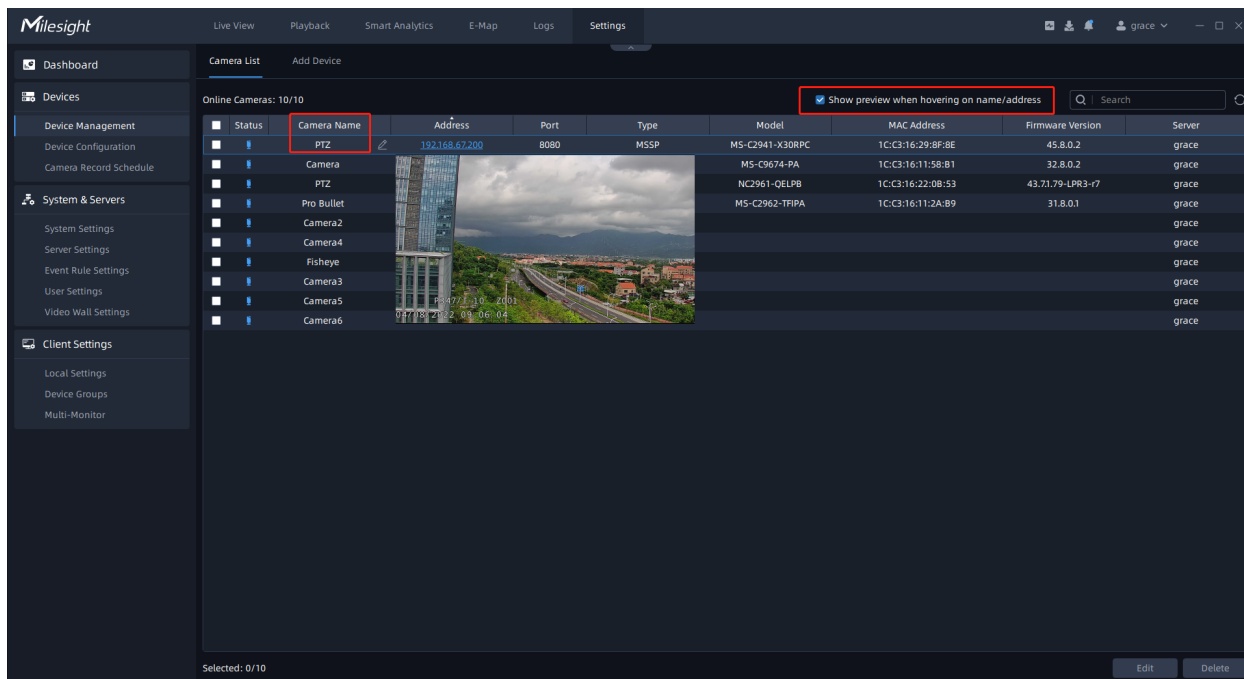
2. Camera List

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

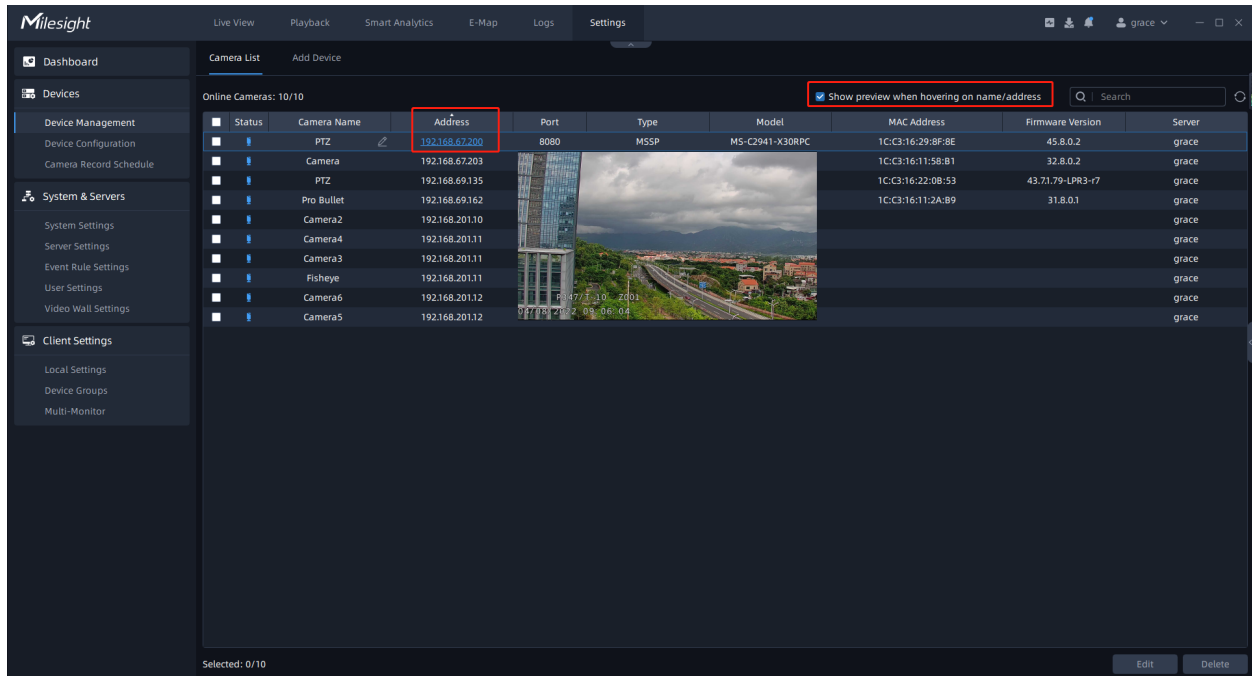


Click Show preview when hovering on name/IP to check the checkbox, it will show preview window of the camera when your mouse hovers on camera name or IP. The interface is as below:

- Show preview when hovering on name:



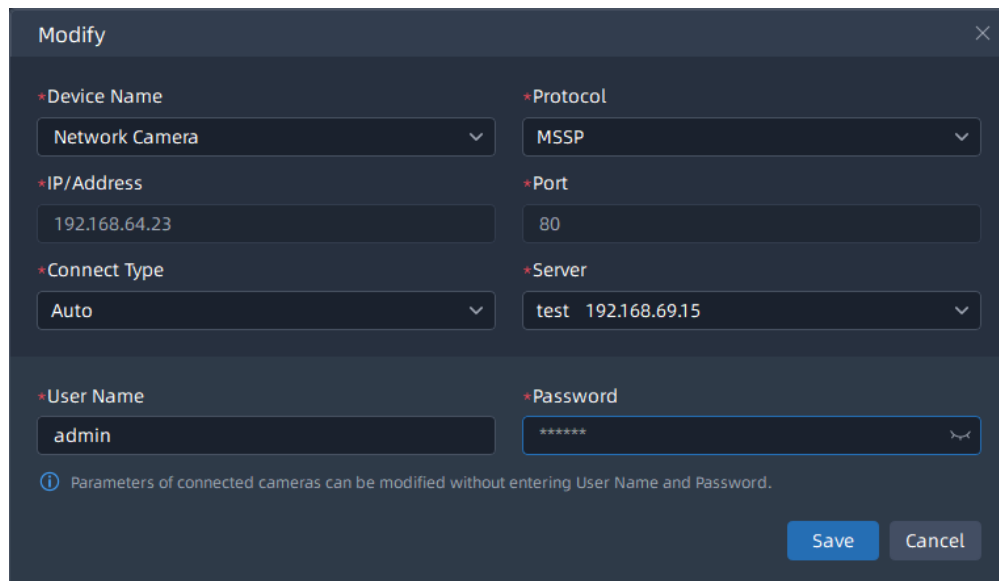
- Show preview when hovering on IP:



• **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:



Camera added by P2P:

Modify

*Device Name: PTZ

*Protocol: P2P

*MAC Address: 1C:C3:16:22:0B:53

*Server: grace 192.168.69.22

*User Name: admin

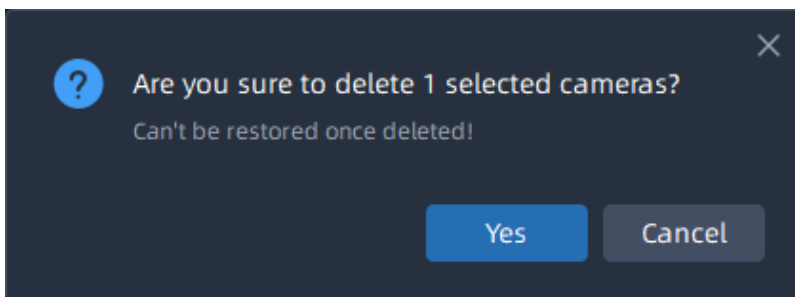
*Password: *****

Parameters of connected cameras can be modified without entering User Name and Password.

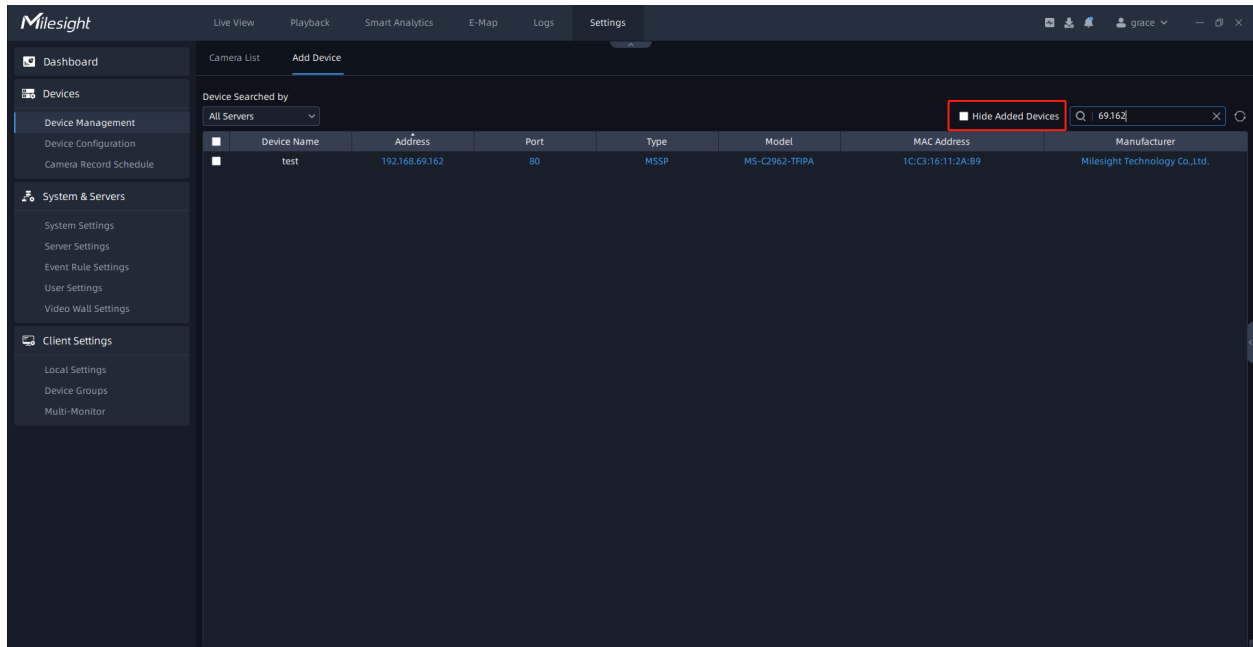
Save Cancel

• 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:



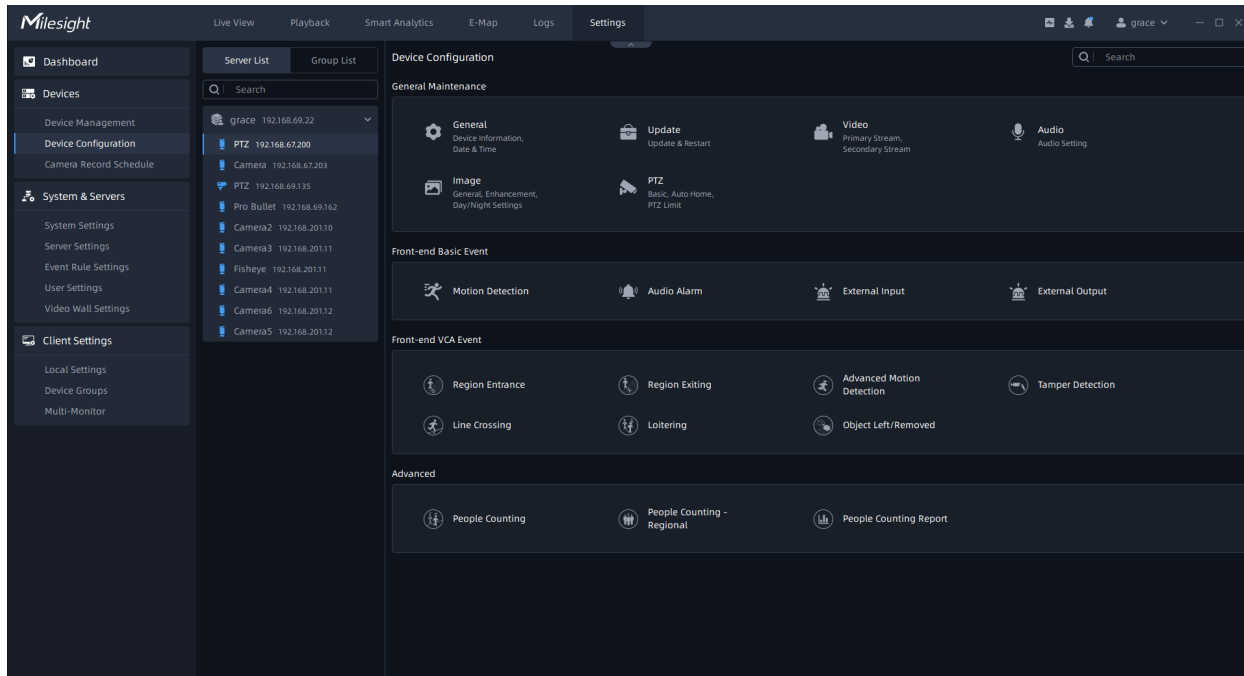
Note: Only check the added device, the “Edit” button and “Delete” button will be clicked.



Note: 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".

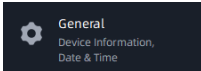
3.2.2 Device Configuration

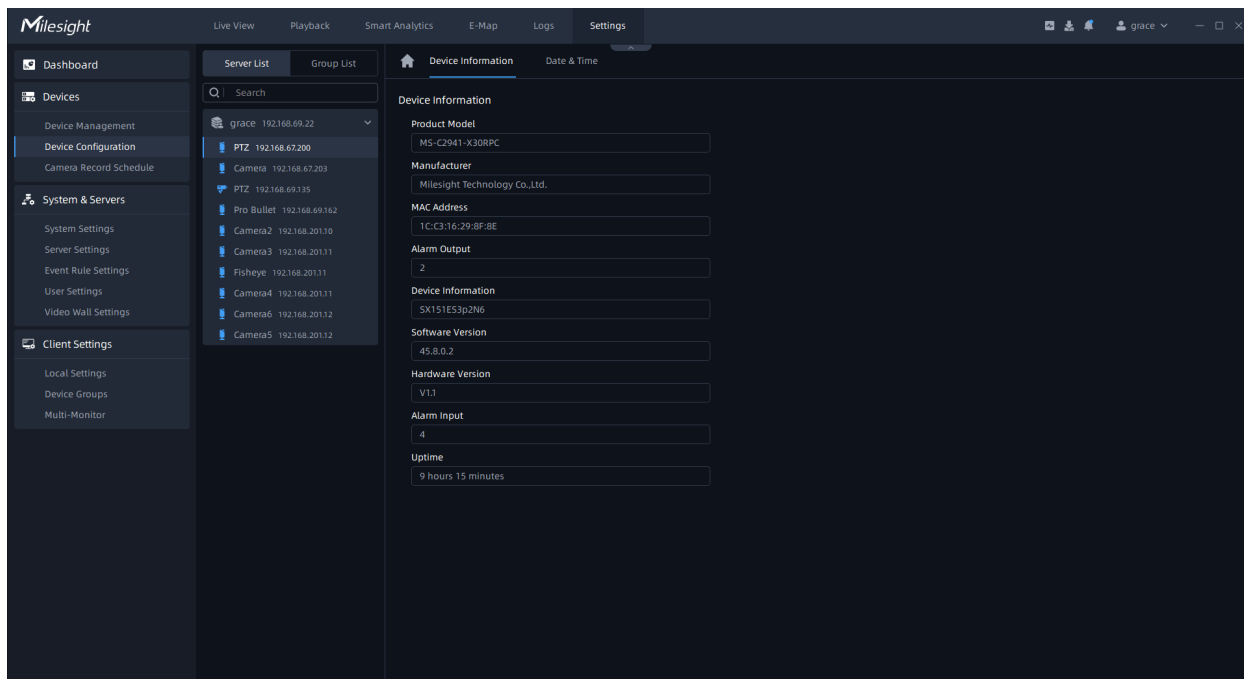
In the Device Configuration, you can configure the parameters and events of the cameras. The window as shown below.



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.

3.2.2.1 Maintenance

Click , the setting window will show as below.

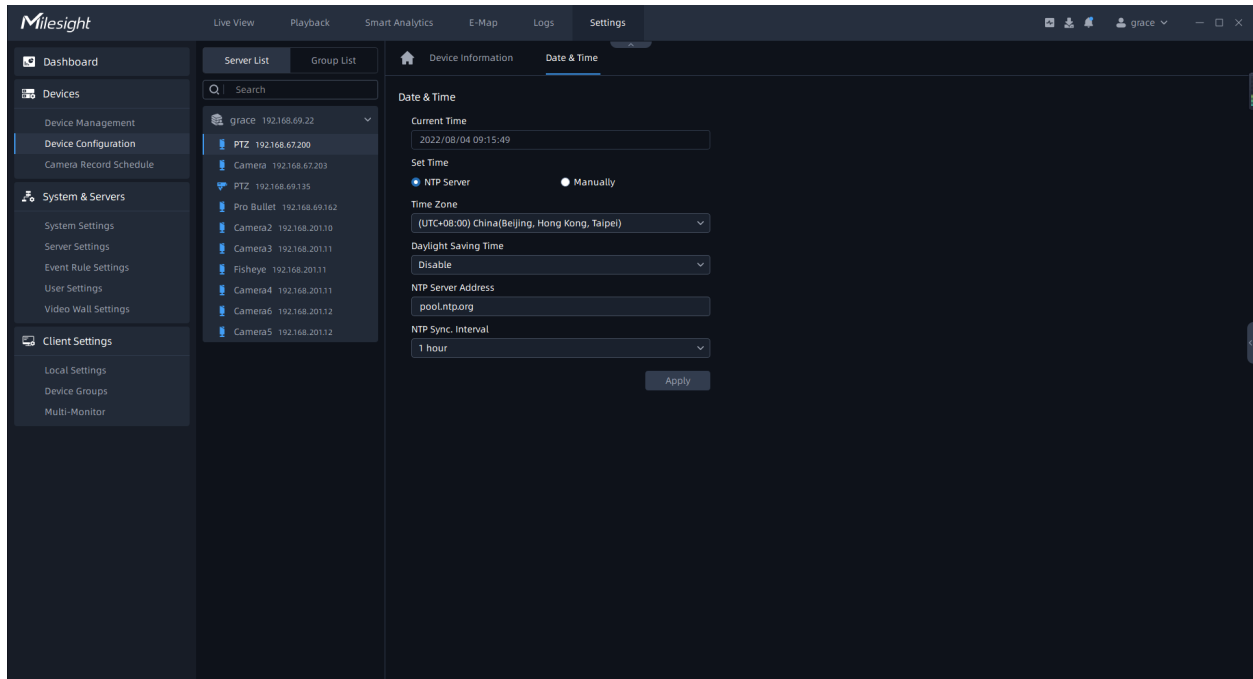


- **Device Information**

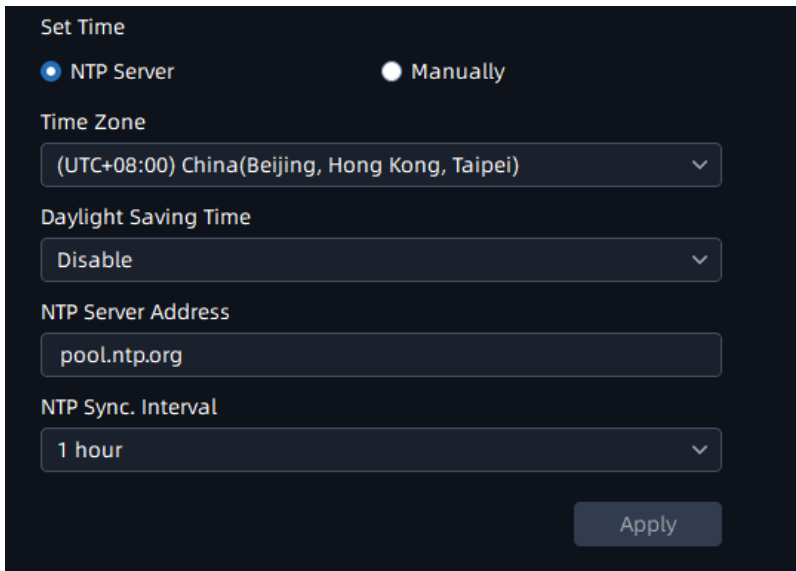
In this page, you can view the device's read-only firmware parameters as shown above, which are allowed to be selected and copied.

- **Date & Time**

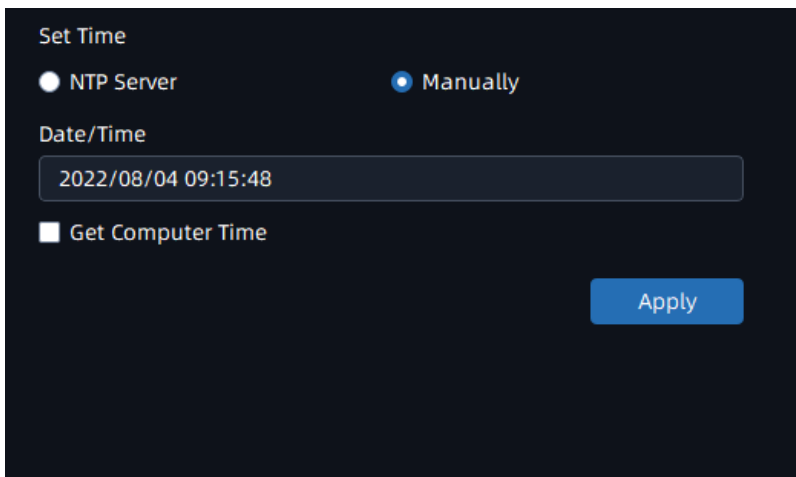
Click “Date & Time” button, the setting page will show as below.



NTP Server page:



Manually page:




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

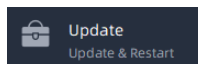
Table 4.

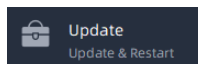
Parameters	Function Introduction
Current Time	Current date & time of the device.
Set Time	There are two options to set time, NTP server and Manually.
Time Zone	Choose a time zone for your location.

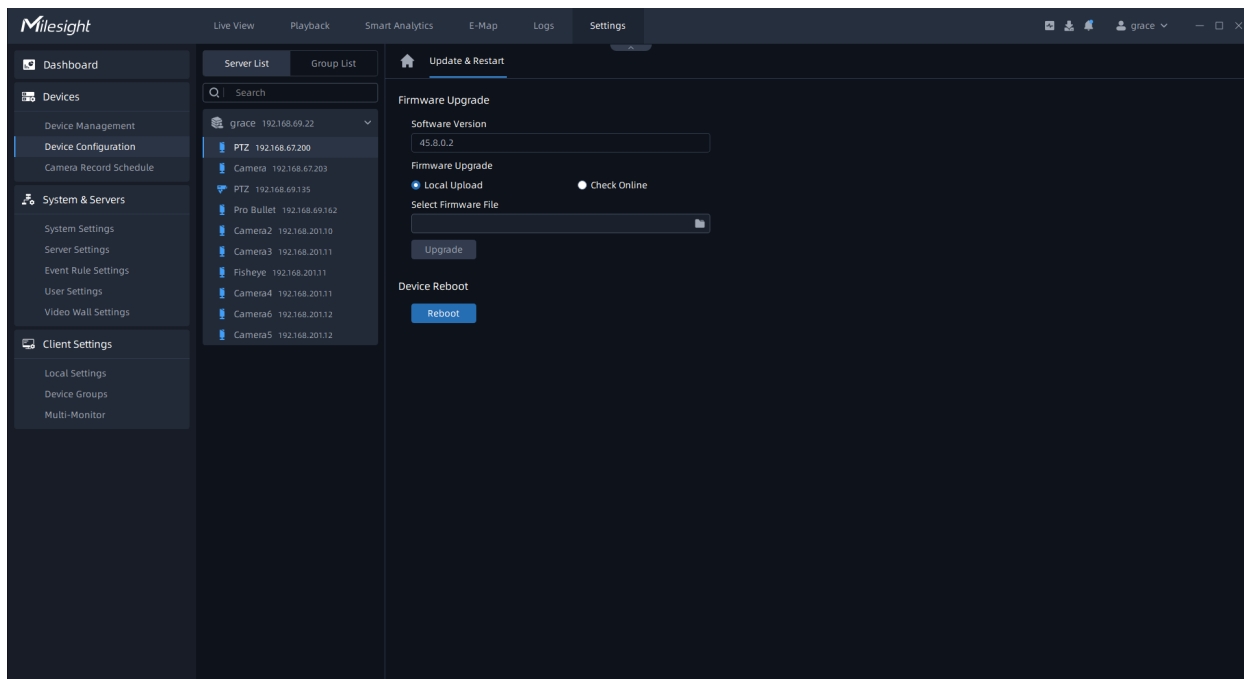
Parameters	Function Introduction
Daylight Saving Time	Enable the daylight saving time.
NTP Server Address	The address of NTP server.
NTP Sync. Interval	Regularly update your time according to the interval time.
Manually	Set date and time of device manually.
Get computer time	Synchronize the time with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





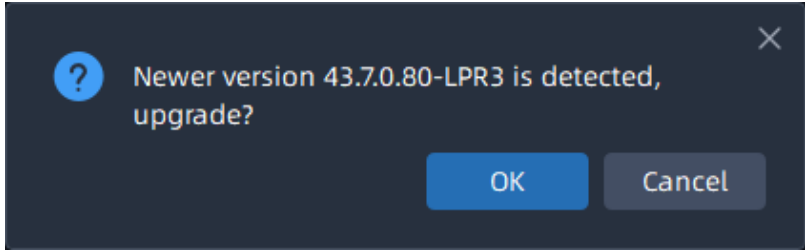
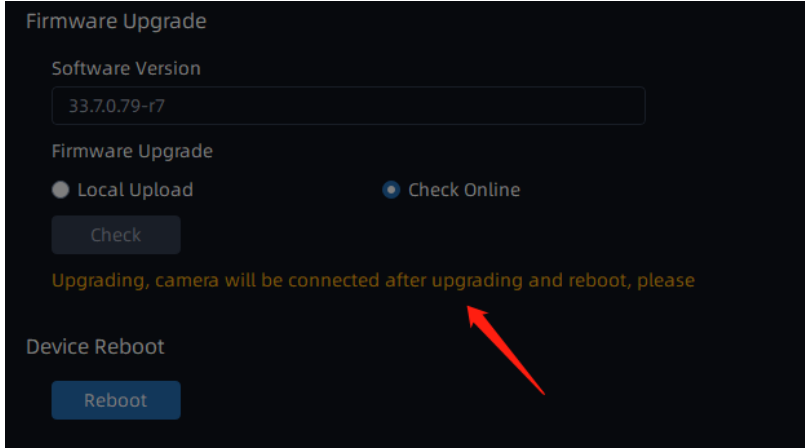
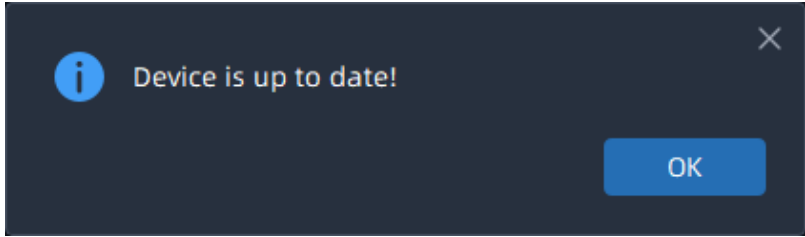
Here you can view and upgrade firmware of camera. Click  button, the Update page will show as below:



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

Table 5.

Parameters	Function Introduction
System Upgrade	<p>Software Version: The software version of the camera.</p> <p>There are two ways to upgrade firmware, including Local Upgrade and Check Online.</p> <p>Local Upgrade: 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.</p> <p>Check Online: Check the "Check Online" button and then click </p>

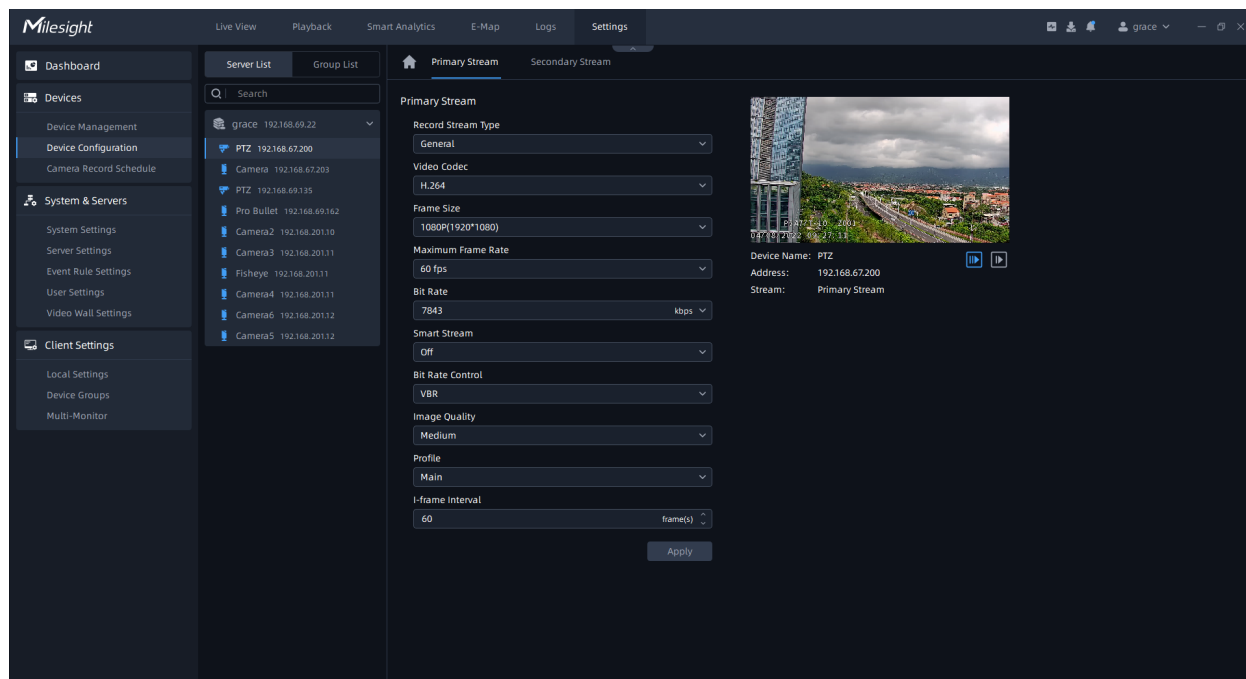
Parameters	Function Introduction
	<p>If the current firmware file of device is not latest version, a pop-up window will inform you whether to upgrade to the latest version as below:</p>  <p>When you click the “OK” button to upgrade, the upgrade process is as shown below:</p>  <p>If the current firmware file of device is the latest version, a pop-up window will inform you that the current version is latest version as below:</p> 
<p>Reboot</p>	<p>Click “Reboot” button to restart the device immediately</p>

3.2.2.2 Parameters

Video

- **Primary Stream**

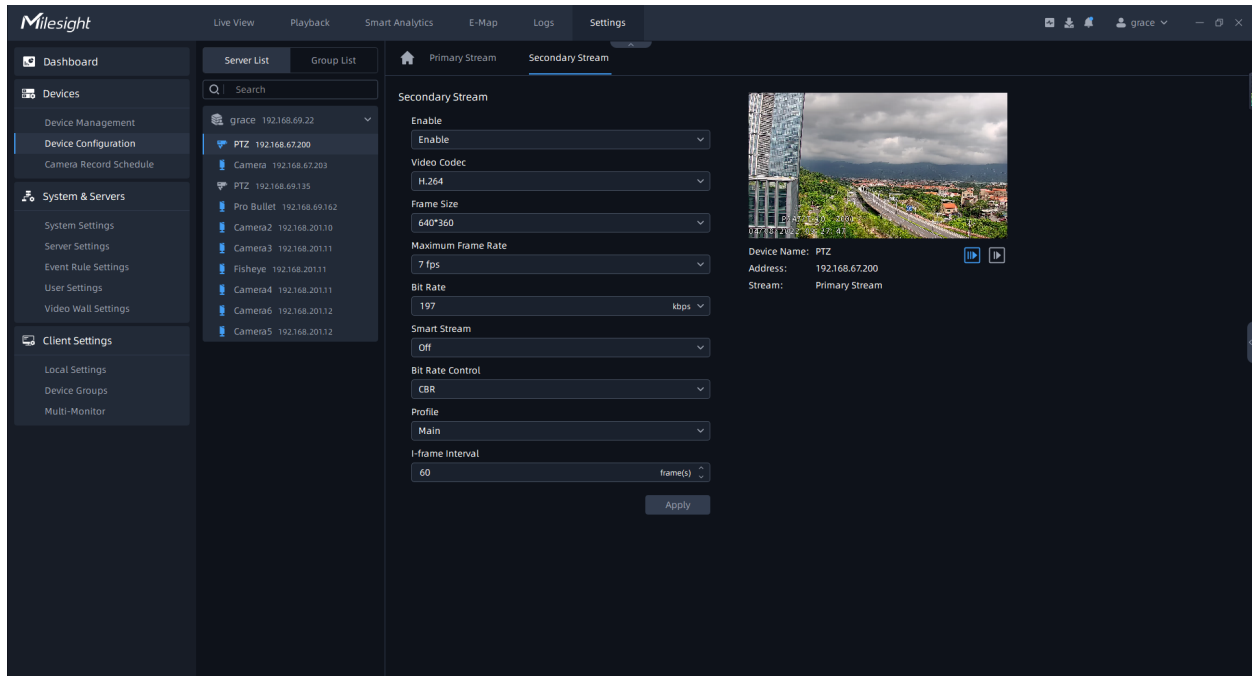
The Primary Stream page is as below:



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 6.

Parameters	Function Introduction
Enable	This item is available only if you set set Secondary Stream for the device.
Record Stream Type	<p>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.</p> <p>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.</p>
Video Codec	H.265/H.264/MJPEG available.
Frame Size	<p>For Primary Stream, it includes 1080P (1920*1080), 1.3M (1280*960), 720P (1280*720), D1 (704*576).</p> <p>For Secondary Stream, it includes D1 (704*576), 640*480, 640*360, 352*288, 320*240, 320*192, 320*180.</p>
Maximum Frame Rate	Maximum refresh frame rate per second up to 25fps.

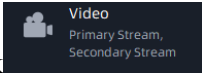
Parameters	Function Introduction
Bit Rate	Transmitting bits of data per second, this item is optional only if you select the H.264 and H.265.
Smart Stream	Smart Stream mode remarkably reduces the bandwidth and the data storage requirements for network cameras while ensuring the high quality of images, 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	CBR: Constant Bit Rate. The rate of CBR output is constant. VBR: 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.

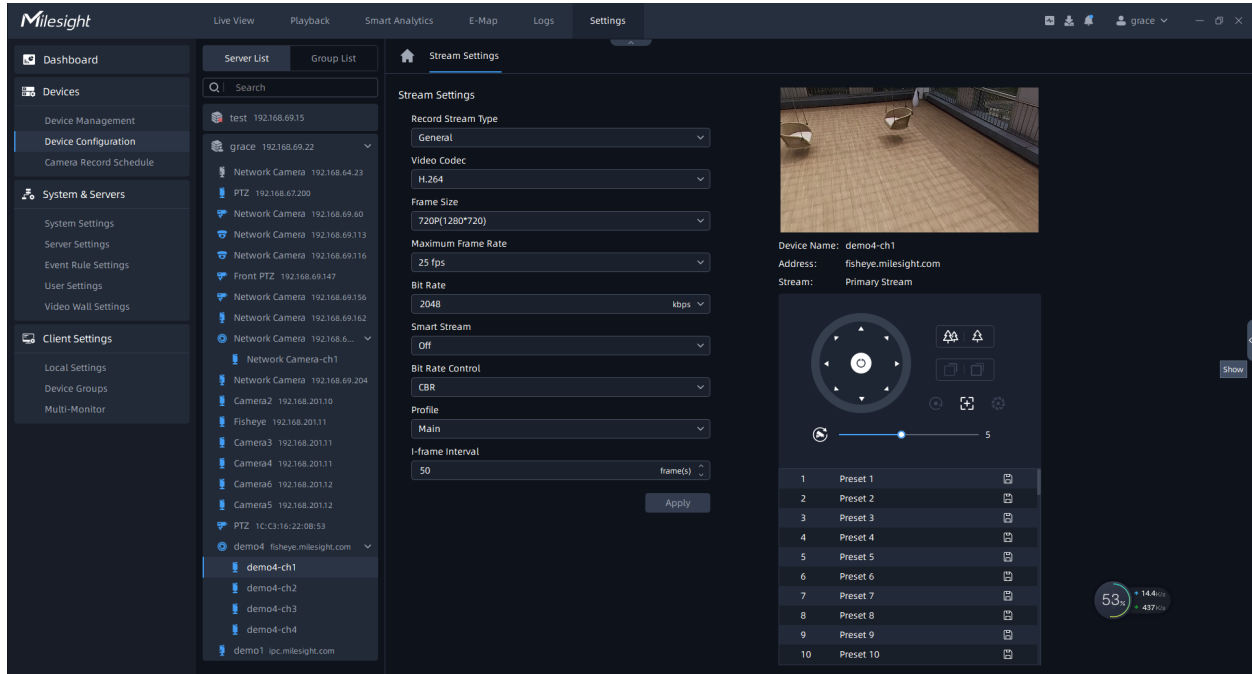
After finishing the settings, please click the “Apply” button.

 **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. 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:

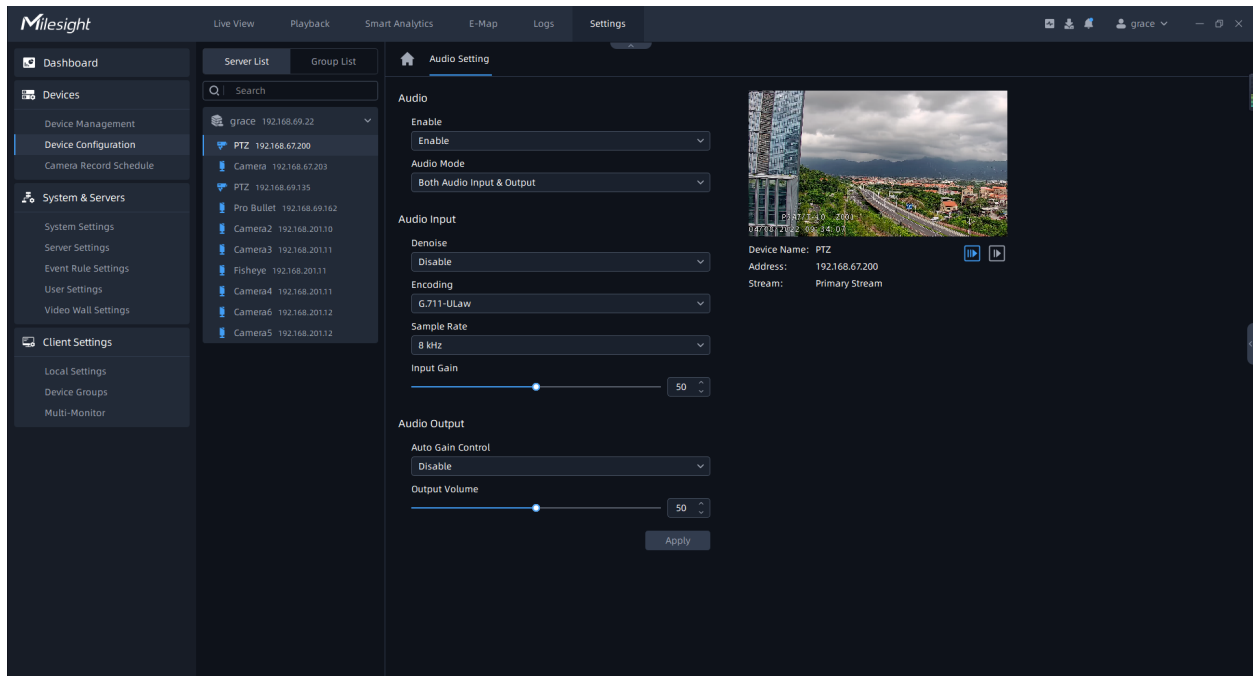
Table 7.

Parameters	Function Introduction
Record Stream Type	<p>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.</p> <p>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.</p>
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 Stream	<p>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.</p> <p>It is optional to turn On/Off Smart Stream mode.</p> <p>Level: Level 1~10 are available to meet your need.</p>
Bit Rate Control	<p>CBR: Constant Bit Rate. The rate of CBR output is constant.</p> <p> Note: The default option is CBR and can't be changed to H.264 or H.265.</p>
Profile	<p>The option is for H.264. Base/Main/High can be selected according to your needs.</p>
I-frame Interval	<p>Set the I-frame interval to 1~120.</p>

Audio

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



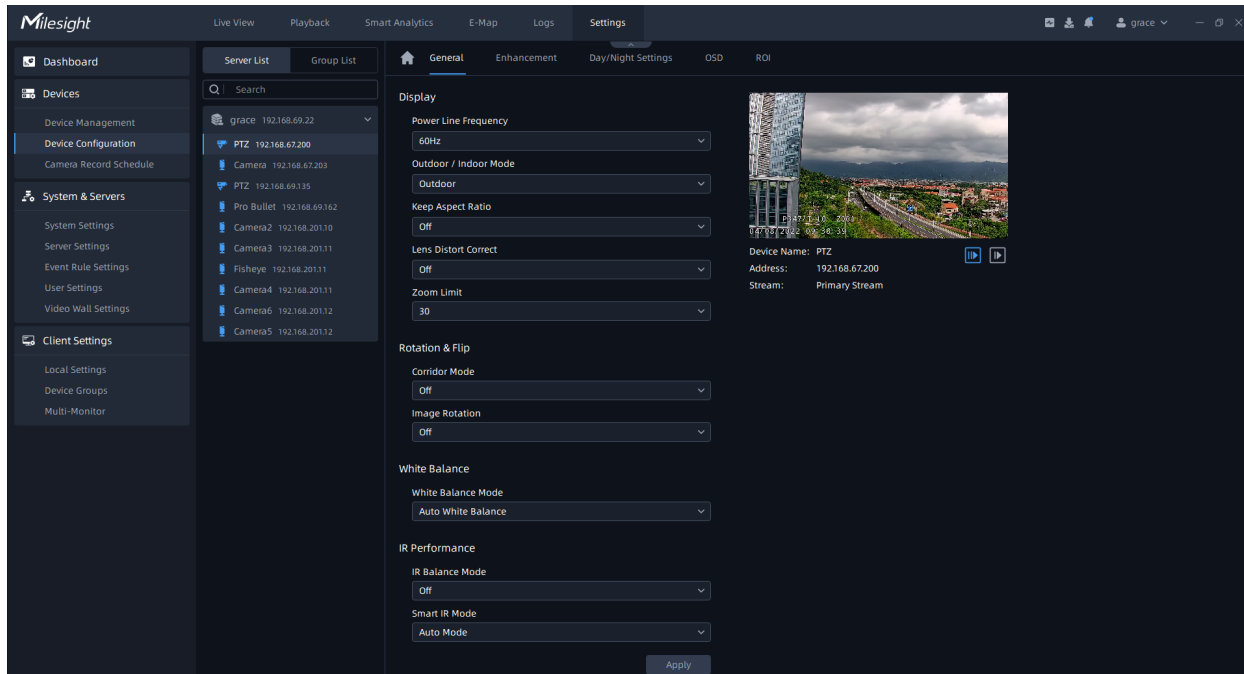
The meanings of the parameters on Audio page can be referred to the table below:

Table 8.

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

Image• **General**

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



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

Table 9.

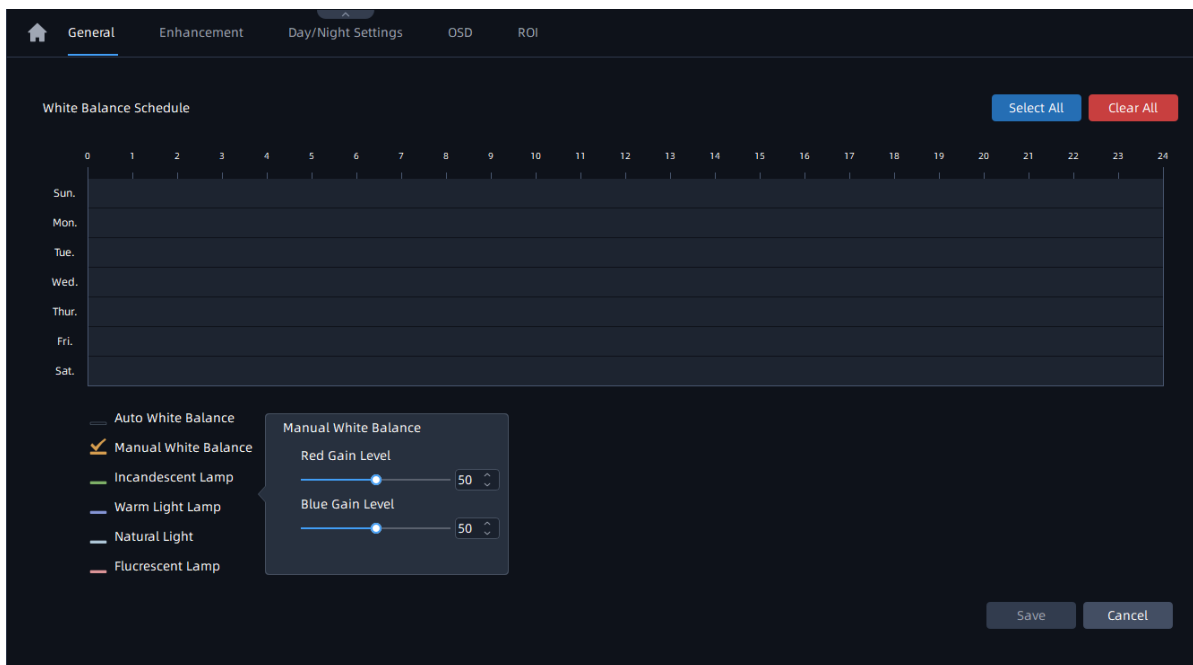
Parameters	Function Introduction
Power Line Frequency	60Hz flicker for 30fps camera model and 50Hz flicker for 25fps camera model
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs
Keep Aspect Ratio	Enable to keep image Aspect Ratio
Zoom Limit	The PTZ Network Camera with optical zoom of 20X or above supports Zoom Limit function.
Local Display Video (Only for Pro Bullet)	Select NTSC or PAL for local display
Corridor Mode	<p>There are three options available, you can select one to meet your need</p> <p>Off: Keep the image in normal direction</p> <p>Clockwise 90°: Rotate the image by 90° clockwise</p> <p>Anticlockwise90°: Rotate the image by 90° anticlockwise</p>


Parameters	Function Introduction
White Balance Mode	<p>To restore white objects, removed color distortion caused by the light of the environment</p> <p>Auto White Balance:This option will automatically enable the White Balance function</p> <p>Manual White Balance: This option is only for H.265 series. Set Red Gain Level and Blue Gain Level manually.</p> <p>Incandescent Lamp: Select this option when light is similar with incandescent lamp</p> <p>Warm Light Lamp: Select this option when light is similar with warm light lamp</p> <p>Natural Light: Select this option when there is no other light but natural light</p> <p>Fluorescent Lamp: Select this option when light is similar with Fluorescent Lamp</p> <p>Schedule mode: Select this option that you can customize the schedule to enable/disable above modes</p>
IRBalance Mode	<p>There is an option to turn On/Off the IR LED.</p> <p>IR Balance Mode would avoid the problem of overexposure and darkness, and the IR LED will change according to the actual illumination.</p>
Smart IR Mode	<p>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.</p> <p>Support to set the strength of the IR to Auto Mode or Customize to achieve the best effect.</p>
Near viewIR level	Adjust the light strength of Low-Beams LED light level from 0 to 100.
Middle view IRlevel	Adjust the light strength of Middle-Beams LED light level from 0 to 100.
Far view IRlevel	Adjust the light strength of High-Beams LED light level from 0 to 100.
Day/Night Switch Refocus	With this option enabled, the camera will refocus when switching between day mode and night mode.
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.

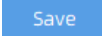
Parameters	Function Introduction
<p>Lens Distort Correct (Only for 180°Panoramic Mini Bullet)</p>	<p>There are two options available, you can select one to meet your need</p> <p>Off: Select the original image of 180°Panoramic Mini Bullet</p> <p>On: Select the dewarping image of 180°Panoramic Mini Bullet</p>

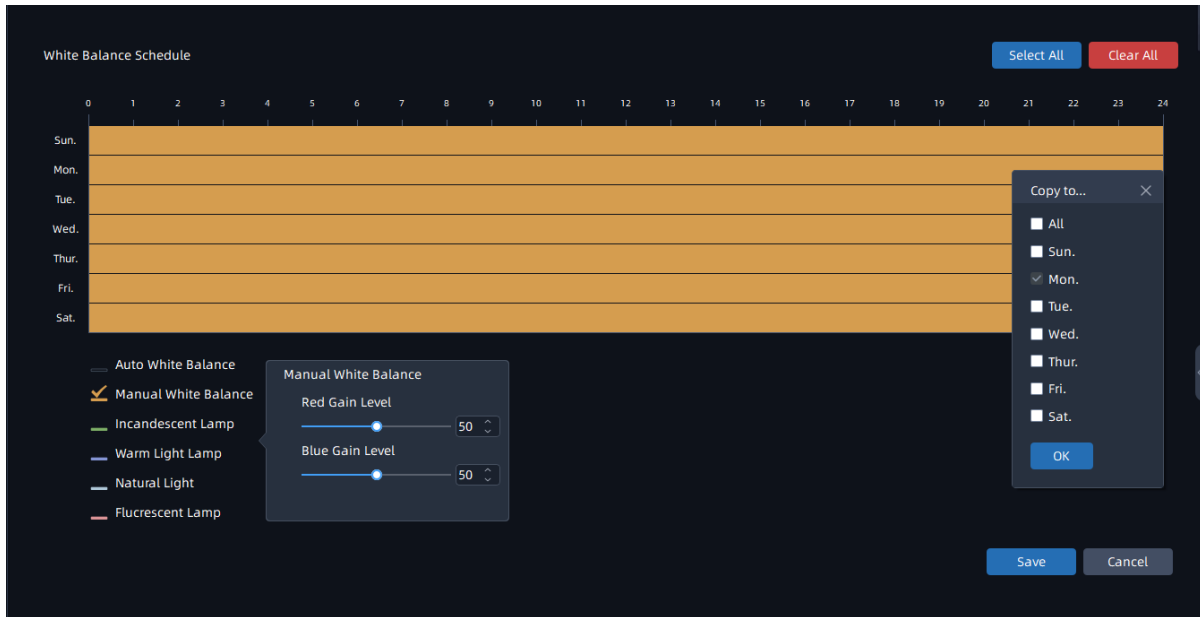
Here You can customize White Balance schedule, steps follow as below:


Step1: Choose Schedule Mode and click the  button, White Balance Schedule page will show as below:



Step2: Check the White Balance Mode which you are interested, and you can draw the interested schedule or click the Select All button  to select all schedule interested.

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

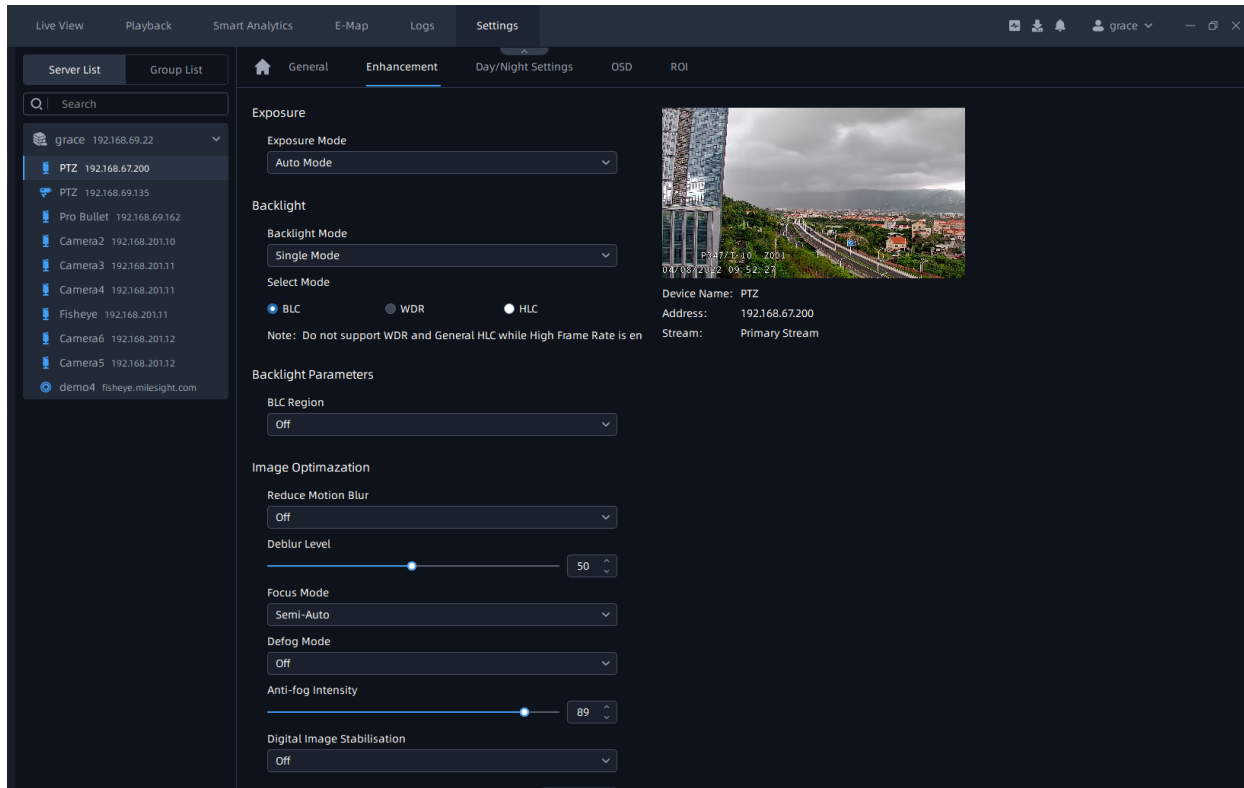


 **Note:** Auto White Balance can't be chosen in Schedule Mode.

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 10.

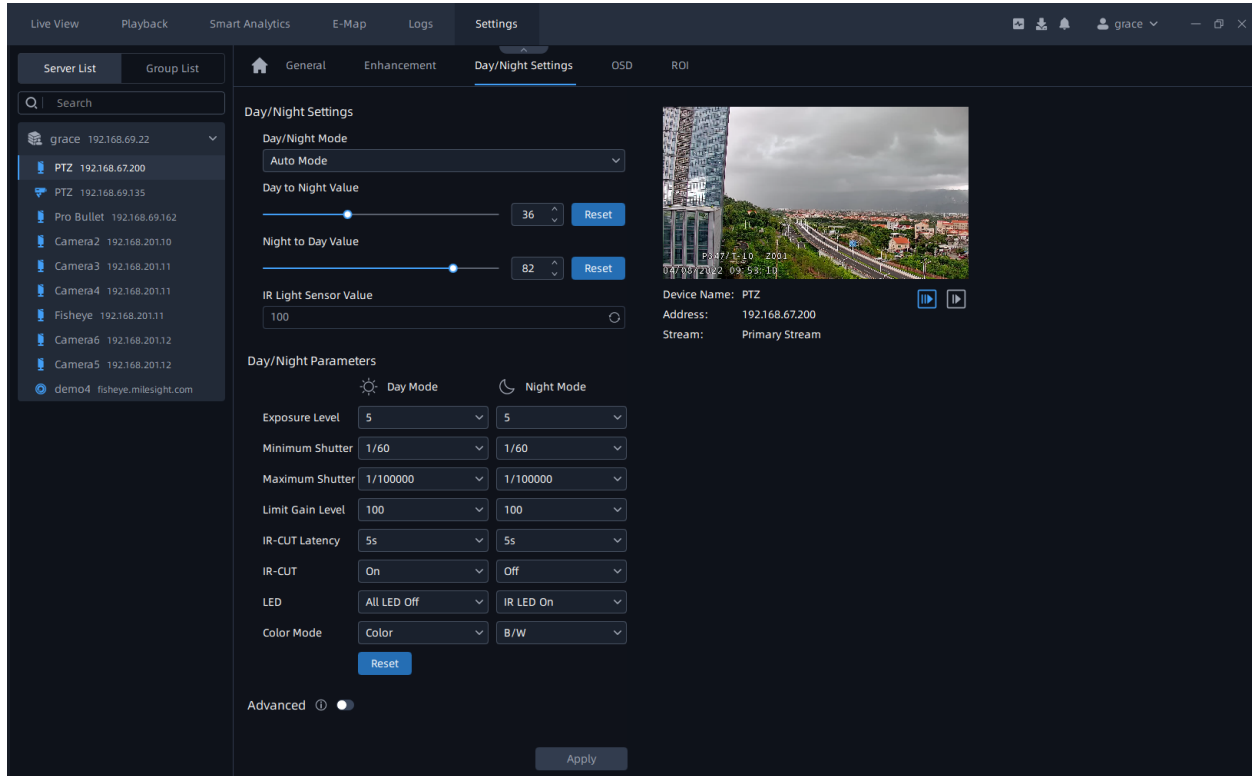
Parameters	Function Introduction
<p>Exposure Mode</p>	<p>Auto Mode, Manual Mode and Schedule Mode are available.</p> <p>Auto Mode: The camera will adjust the brightness according to the light environment automatically.</p> <p>Manual Mode: The camera will adjust the brightness according to the value you set.</p> <p>Schedule Mode: You can click the  to customize the exposure schedule, including Auto Mode and Manual Mode.</p> <p> Note: WDR/HLC Schedule has higher priority than exposure settings during the same time period.</p>
<p>Exposure Time</p>	<p>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.</p>

Parameters	Function Introduction
Gain Level	This option is just available for Manual Mode. You can set the exposure gain level from 1~100.
Backlight Mode	<p>Single Mode: Set single mode for BLC/WDR/HLC.</p> <p>Day/Night Mode: Support BLC/WDR/HLC on Day Backlight Mode/Night Backlight Mode separately.</p> <p>Schedule Mode: Set schedule mode for BLC/WDR/HLC.</p>
Day Backlight Mode	BLC/WDR/HLC are available.
Night Backlight Mode	BLC/WDR/HLC are available.
BLC Region	<p>Off, Customize, and Centre are available. (In single mode, only enable when WDR and HLC are disabled).</p> <p>Off: Calculate the full range of view and offer appropriate light compensation.</p> <p>Customize: This allows to customize inclusive or exclusive region manually.</p> <p>Centre: This option will automatically add an inclusive region in the middle of the window and give the necessary light compensation.</p>
Wide Dynamic Range	<p>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.</p> <p>Off: Always disable WDR function.</p> <p>On: Always enable the WDR and there are Low/High/Auto three levels.</p> <p>Customize: Customize the schedule to enable/disable the WDR function and set the levels with Low/High/Auto.</p>
WDRLevel	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.

Parameters	Function Introduction
HLC Mode	<p>This function is only for H.265 series to adjust the brightness to a normal range when the light is strong.</p> <p>Off: Disable HLC function.</p> <p>General Mode: Enable the general mode of HLC, and there is a setting for HLC Level.</p> <p>Enhancement Mode: Enable the enhanced mode of HLC, and there is a setting for HLC Level.</p>
HLC Level	HLC level can be adjusted from 0~100.
Reduce Motion Blur	<p>Enable this function to reduce the motion blur of objects effectively.</p> <p>Deblur level can be adjusted from 0 to 100.</p>
Defog Mode	<p>Enable this function to provide better image effect in foggy weather.</p> <p>Defog intensity Defog intensity from 0 to 100.</p>
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:


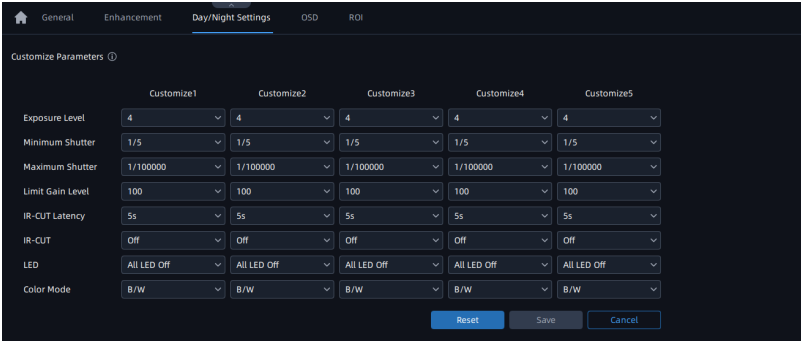
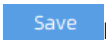


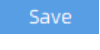



The meanings of the parameters on Image-Day/Night Settings can be referred to the table below:

Table 11.

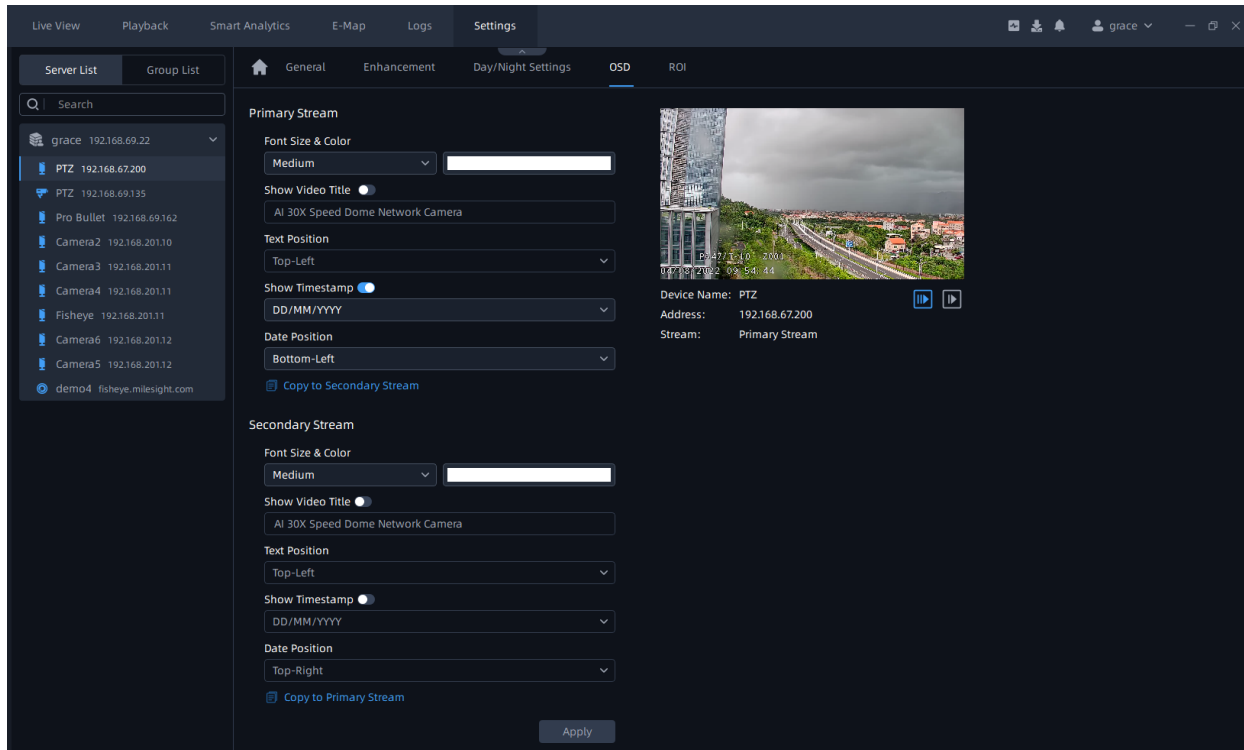
Parameters	Function Introduction
<p>Day/Night Mode</p>	<p>There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with this mode.</p> <p>Auto Mode: Show in live view based on environment, set the sensitivity for switching Day Mode to Night Mode,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

Parameters	Function Introduction
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
<p>Advanced</p>	<p>Here you can customize for different parameters and schedule, then camera will run in customized parameters at specified time.</p> <p>Click the  to enter customize parameters page as shown below:</p>  <p>Here you can add up to 5 Customize Exception Mode, and click  button to save the settings.</p> <p>Click the  to enter Customize Schedule page as shown below:</p>  <p>Here you can set effective time for 5 types of customize parameters mode and click  button to save the settings.</p> <p> Note: Camera will run with Day/Night Mode when out of customized schedule time.</p>

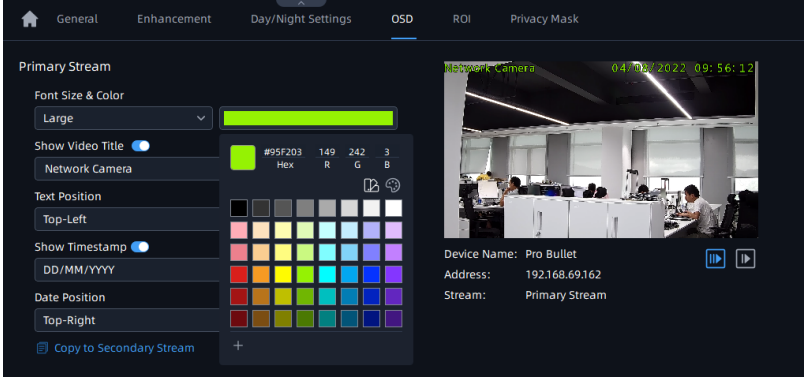
• OSD





The Image-OSD page is as below:



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

Table 12.

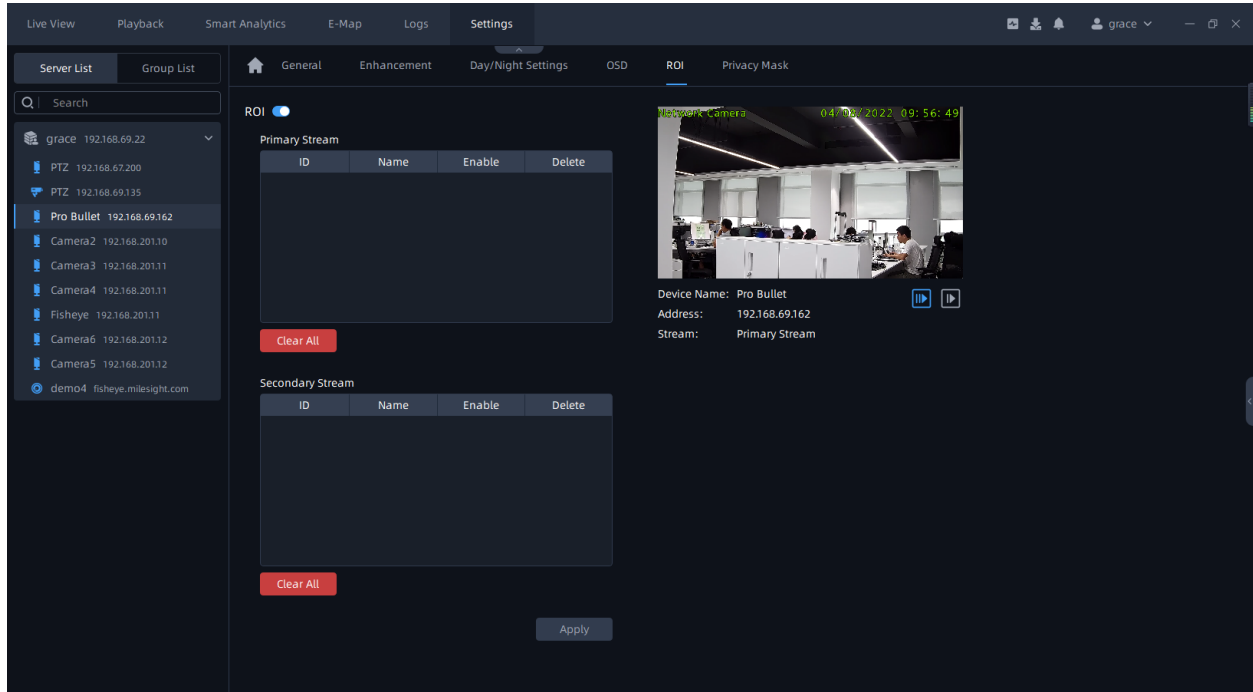
Parameters	Function Introduction
<p>Font Size & Color</p>	<p>Smallest/Small/Medium/Large/Largest/Auto options are available for font size of title and date.</p> <p>You can also set different color for title and time as shown below:</p>  <p>The screenshot shows the 'OSD' settings for the 'Primary Stream'. The 'Font Size & Color' section is expanded to show a color picker. The title 'Network Camera' is highlighted in green, and the timestamp '04/08/2022 09:56:12' is highlighted in yellow. A color palette with various color swatches is visible, along with a hex code input field showing '#95F203' and RGB values '149 242 3'. The 'Show Video Title' and 'Show Timestamp' options are both enabled. The 'Text Position' is set to 'Top-Left' and 'Date Position' is set to 'Top-Right'. There is a 'Copy to Secondary Stream' button at the bottom left of the settings panel. The video preview on the right shows the camera feed with the green title and yellow timestamp overlaid. Device details for 'Pro Bullet' are shown below the preview: 'Device Name: Pro Bullet', 'Address: 192.168.69.162', and 'Stream: Primary Stream'.</p>

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



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;

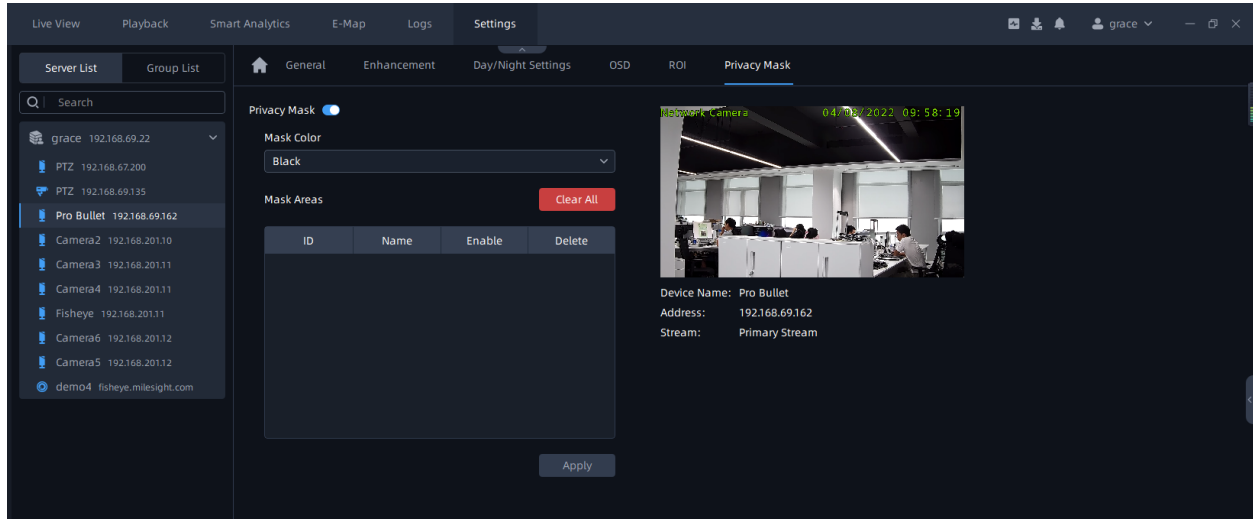
Step4: Click  button to apply settings.

- **Privacy Mask**

The VMS supports privacy mask function.

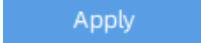
(1) For non-AI series



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  button to apply settings;

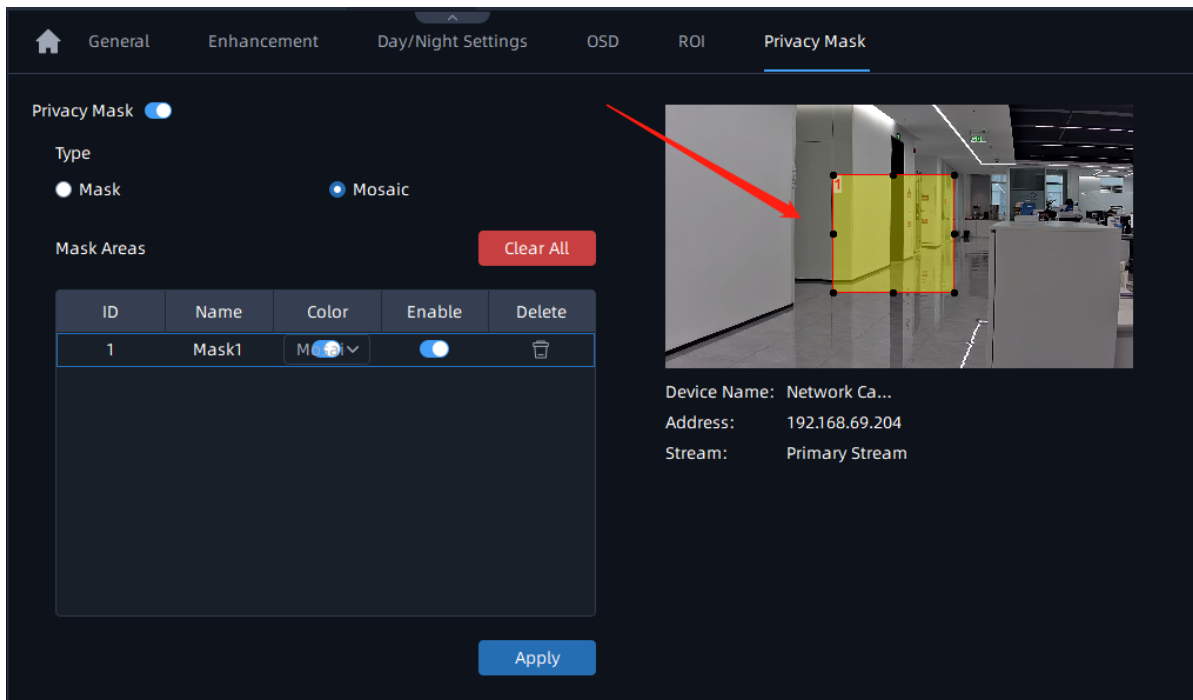
Step4: Click the  button to delete mask area, or click  button to clear all drawn areas, then click the



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:

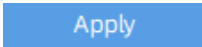



Step1: Enable the Privacy Mask function;

Step2: Choose the mask type as Mask or Mosaic;

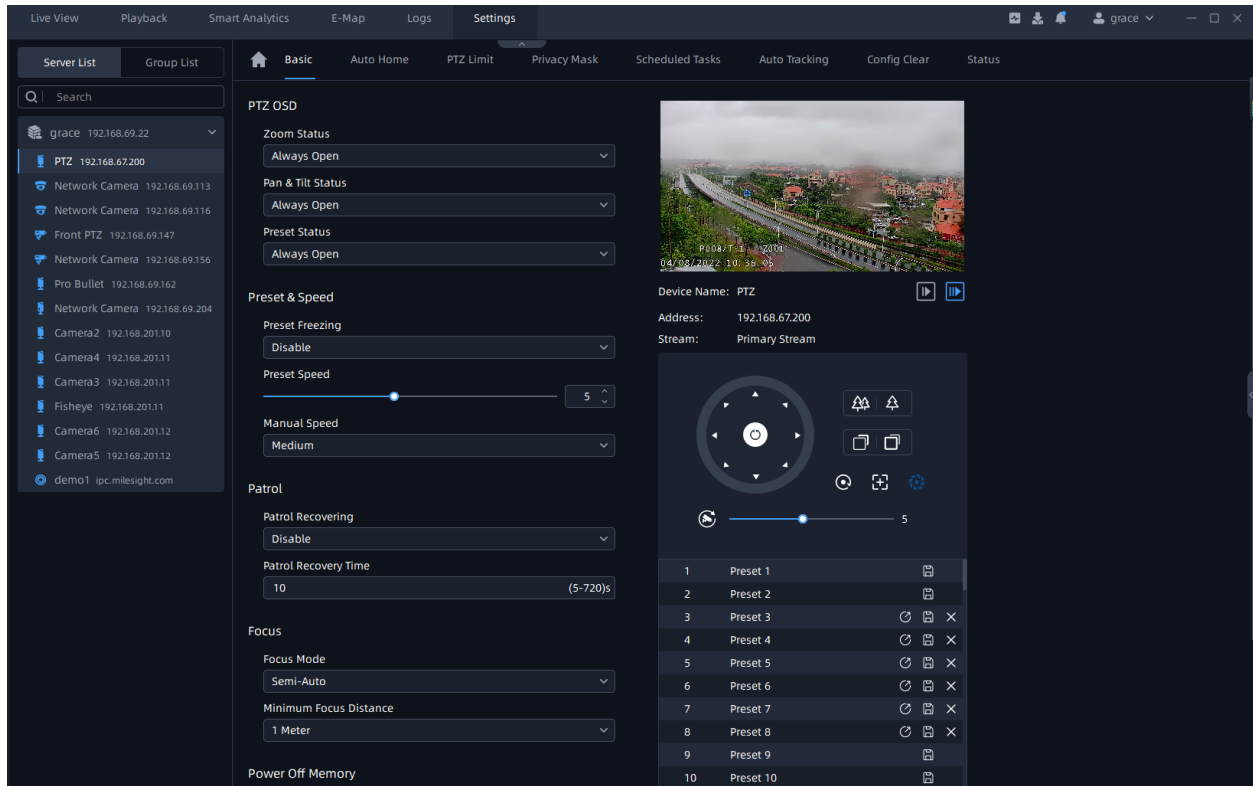
Step3: Hold down the mouse to draw the area in the preview window. If you choose the mask type as Mask, you can Change the color of Mask area, there are eight colors available: White, Black, Blue, Yellow, Green, Brown, Red and Purple.

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

Step5: click the  button to apply the settings, or click  button to clear all drawn areas.

PTZ

• Basic




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

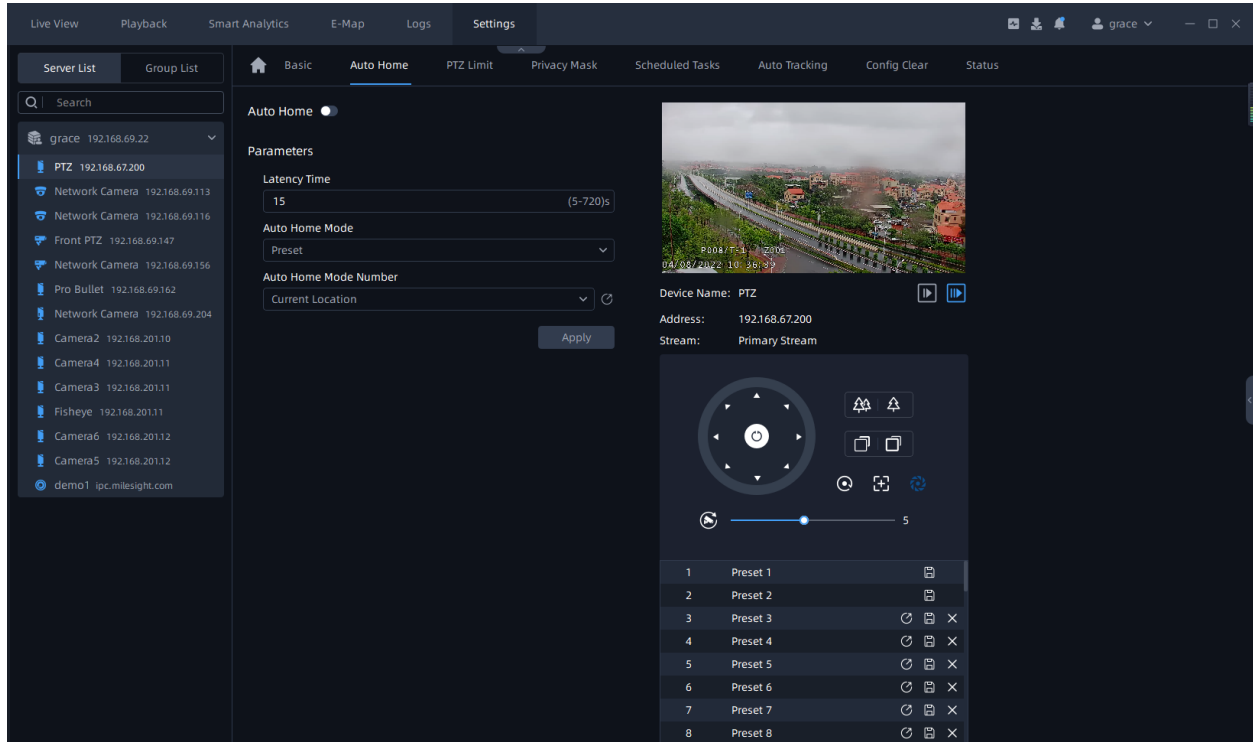
Table 13.

Parameters	Function Introduction
PTZ OSD	Configure the OSD parameter, you can set the Zoom status OSD, Pan&Tilt Status, Preset Status 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	<p>Patrol Recovering: Click to enable Patrol Recovering.</p> <p>Patrol Recovery Time: Set time for Patrol Recovering, which is between 5 to 720 seconds.</p>

Parameters	Function Introduction
Focus	<p>Focus Mode: Three focus modes are available: Auto/ Semi-Auto/ Manual.</p> <p>Minimum Focus Distance: Set the minimum focus distance to adjust the step length of each focus. 1 meter, 1.5 meters, 3 meters, 6 meters, 10 meters and 20 meters are available. The default minimum focus distance is 1 meter.</p>
Power Off Memory	<p>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.</p>
Initial Position	<p>You can configure the Initial Position for PTZ cameras as a zero point.</p> <p>Set: Click to set the current position as a Initial Position.</p> <p>Clear: Clear the Initial Position to default settings.</p> <p>Call: Click to call the Initial Position.</p>


- **Auto Home**

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



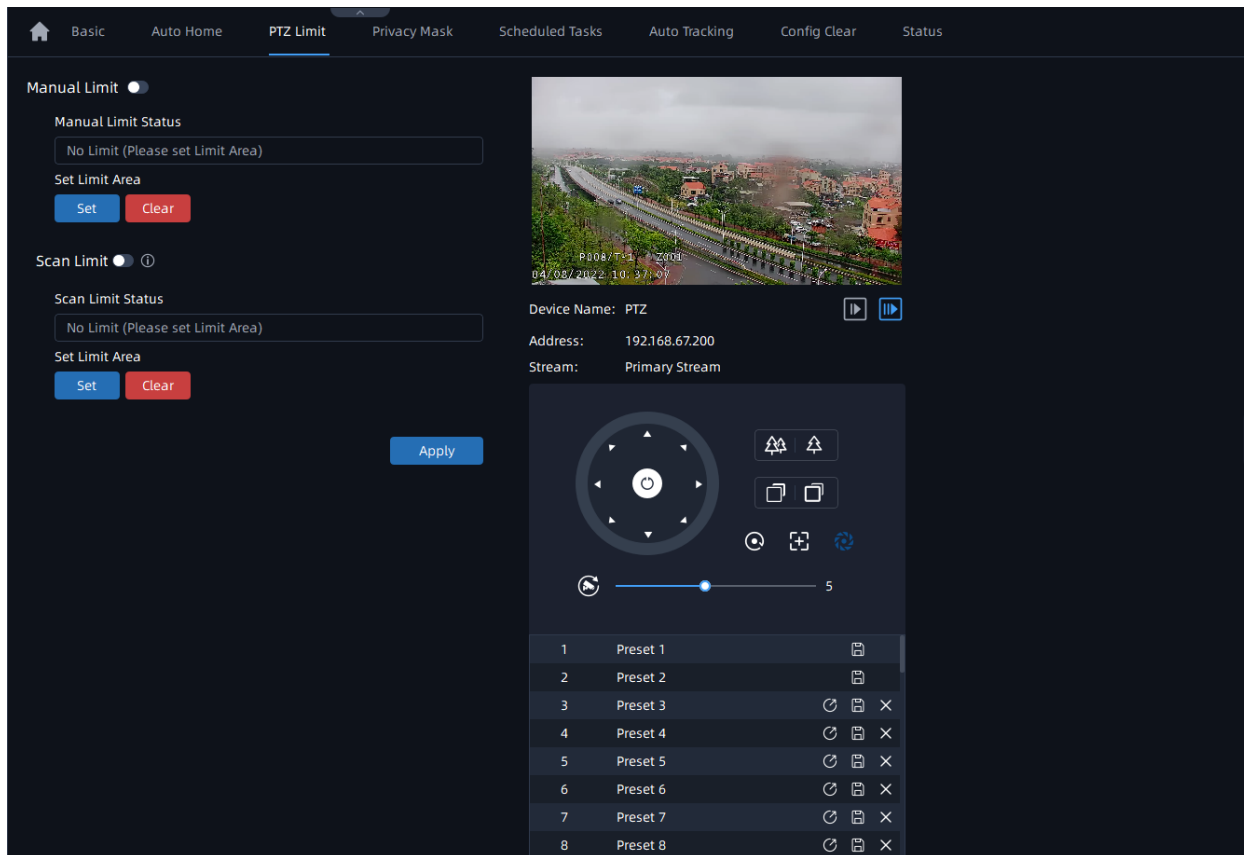
The meanings of the parameters on PTZ-Auto Home can be referred to the table below:

Table 14.

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.

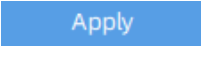
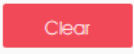
- Scan Limit:


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

Step2: Click 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  button to apply the limit stops, or click  to clear the settings.

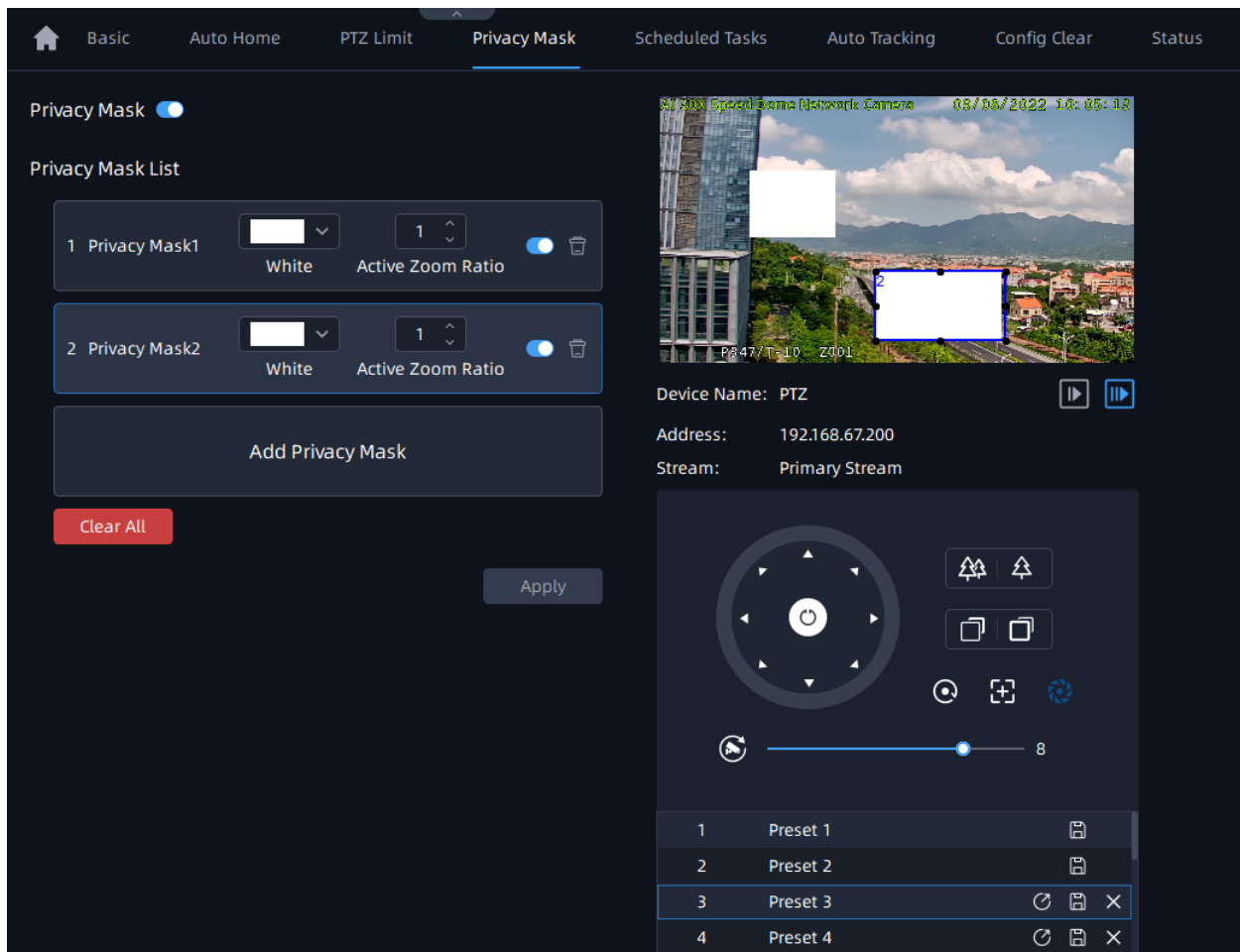
 **Note:** Manual Limit has higher priority than Scan Limit.

• 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:

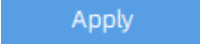




Step1: Enable the Privacy Mask function;

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

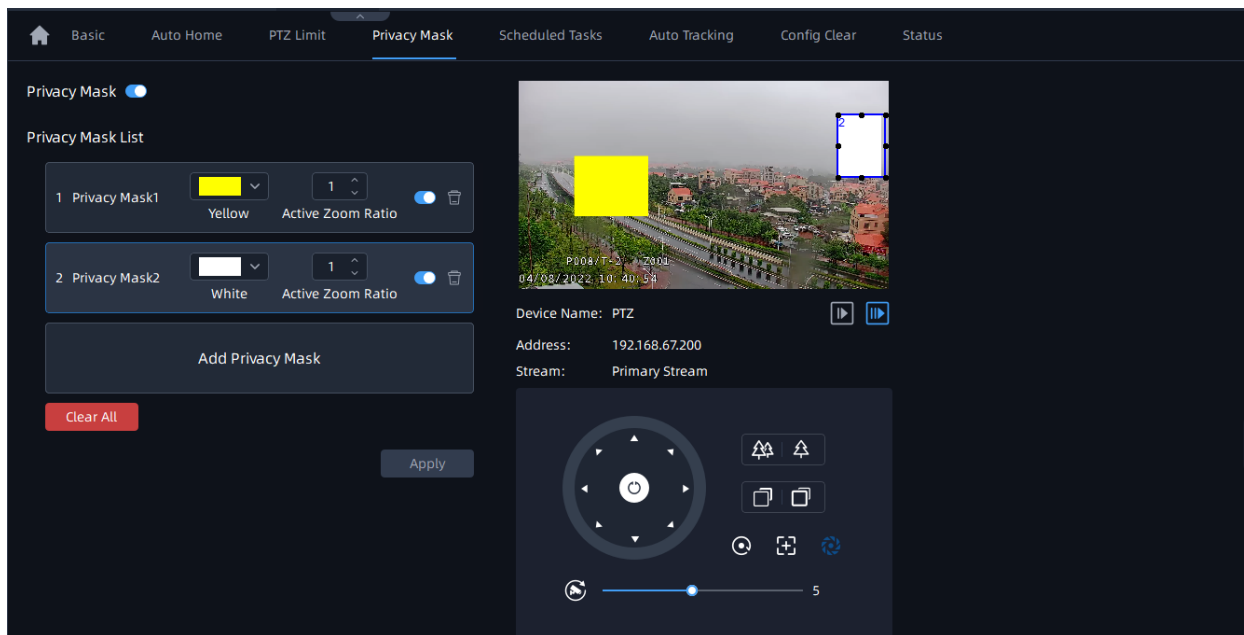
Step3: The added area will be listed in Privacy Mask List;

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

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

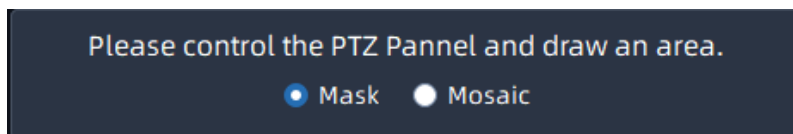
(2) For AI series

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



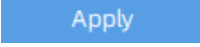
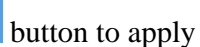
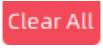
Step1: Enable the Privacy Mask function;

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;




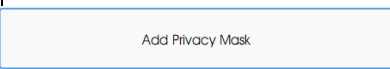



Step3: The added area will be listed in Privacy Mask List;

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

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

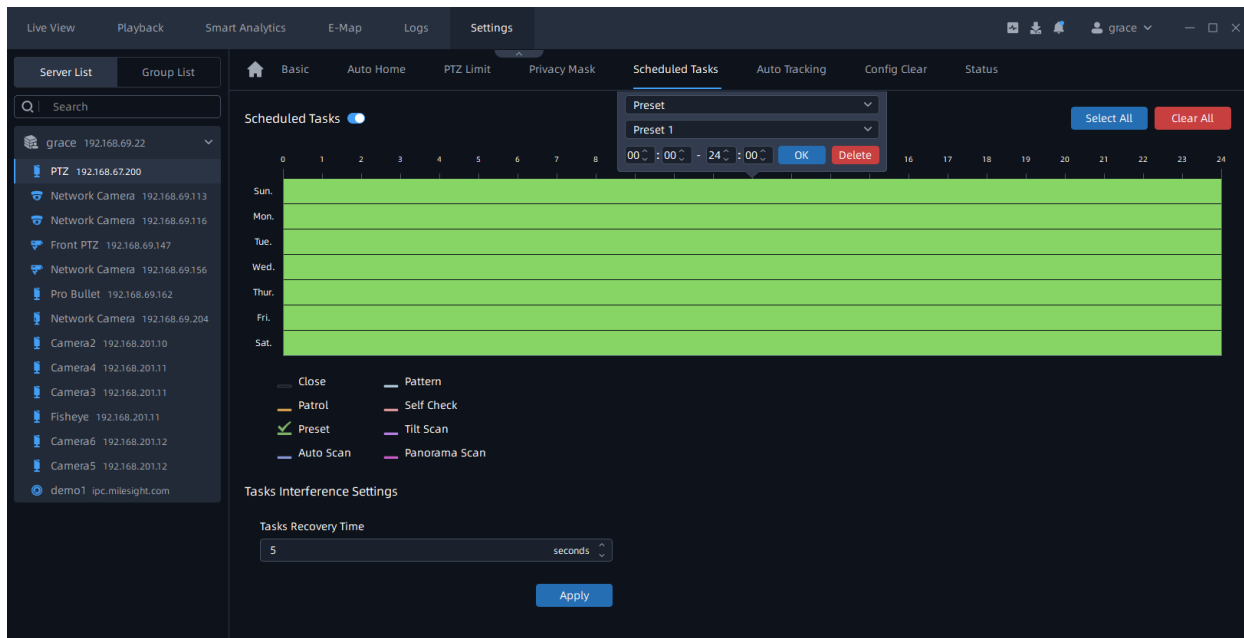
The meanings of the parameters on PTZ-Privacy Mask can be referred to the table below:

Table 15.

Parameters	Function Introduction
	Click to enable or disable the Privacy Mask function.
	Add the current drawing area as Privacy Mask.
	Delete Privacy Mask area.
	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 user-defined 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.

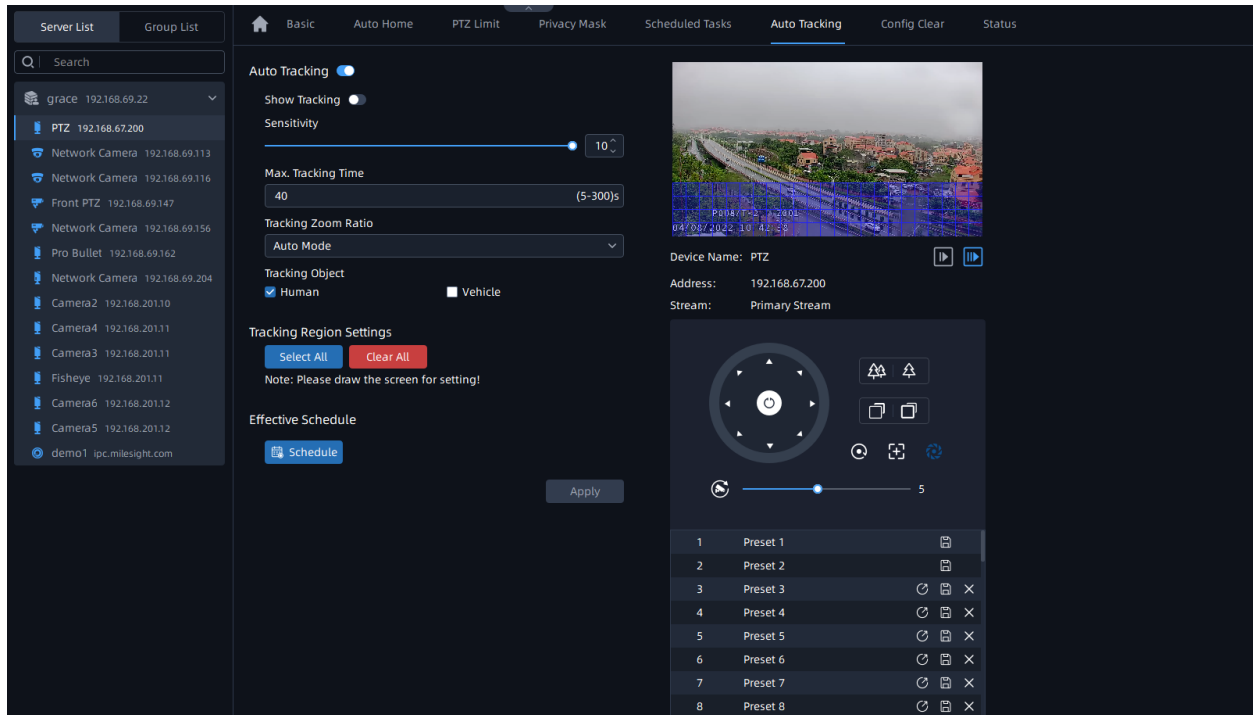
Step4: Click  button to save all the configurations.

 **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  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.

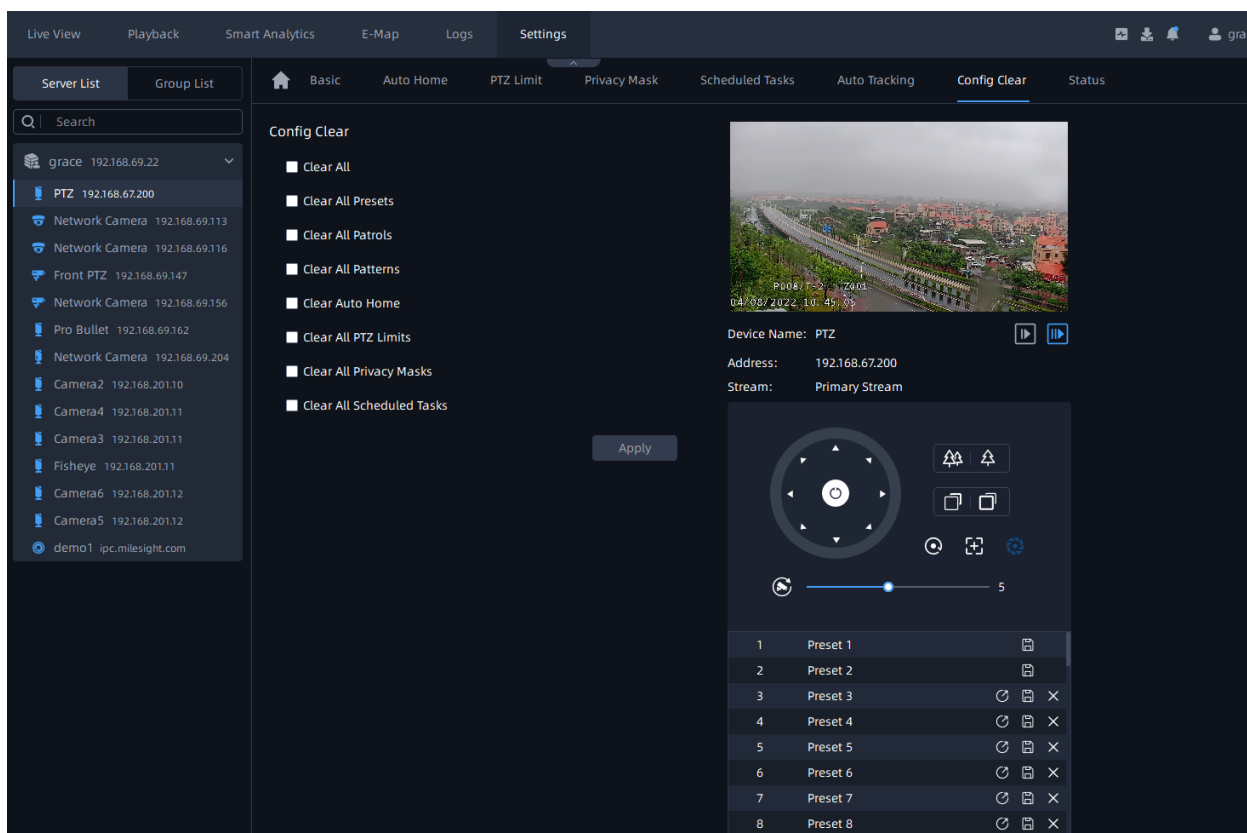
Step8: Click  to set Auto Tracking schedule;

Step9: After setting the configurations, click  button to apply the settings.

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

• Config Clear

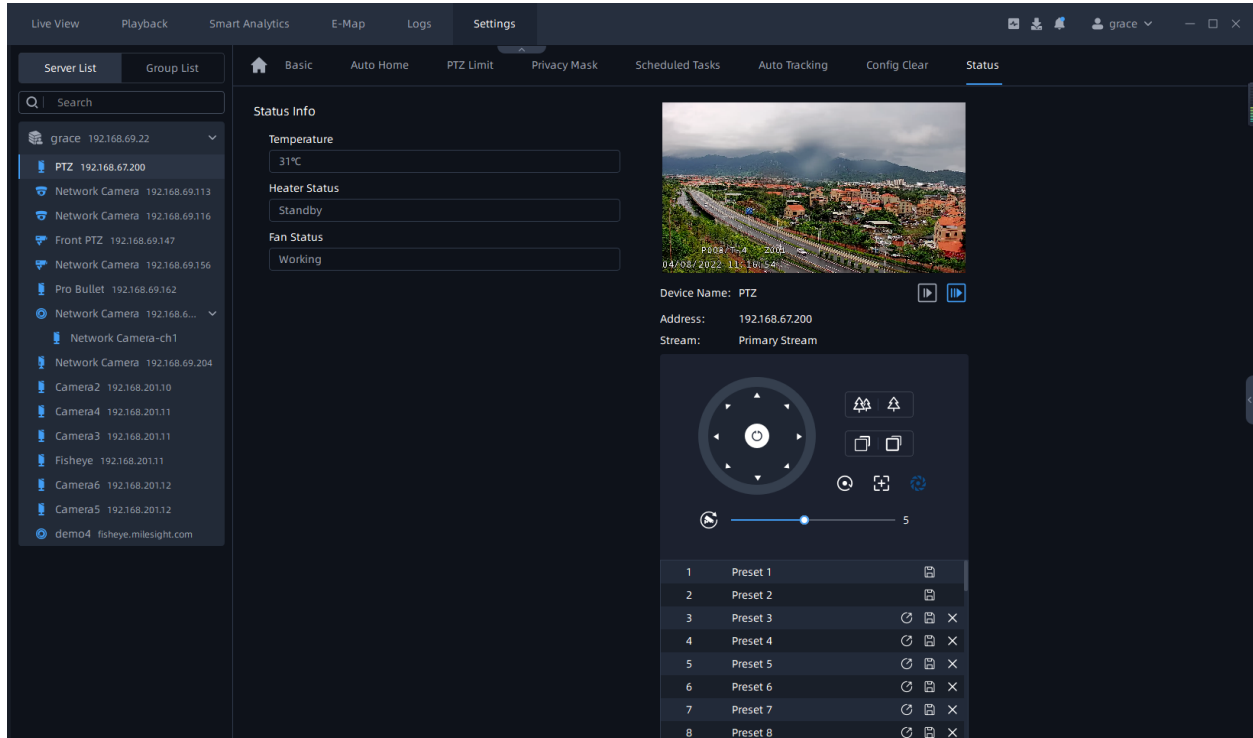
Here you can clear PTZ configurations which you set before, including Clear All, Clear All Presets, Clear All Patrols, Clear All Patterns, Clear Auto Home, Clear All PTZ Limits, Clear All Privacy Masks and Clear All Scheduled Tasks. After checking the configuration clear checkbox, click “Apply” button.



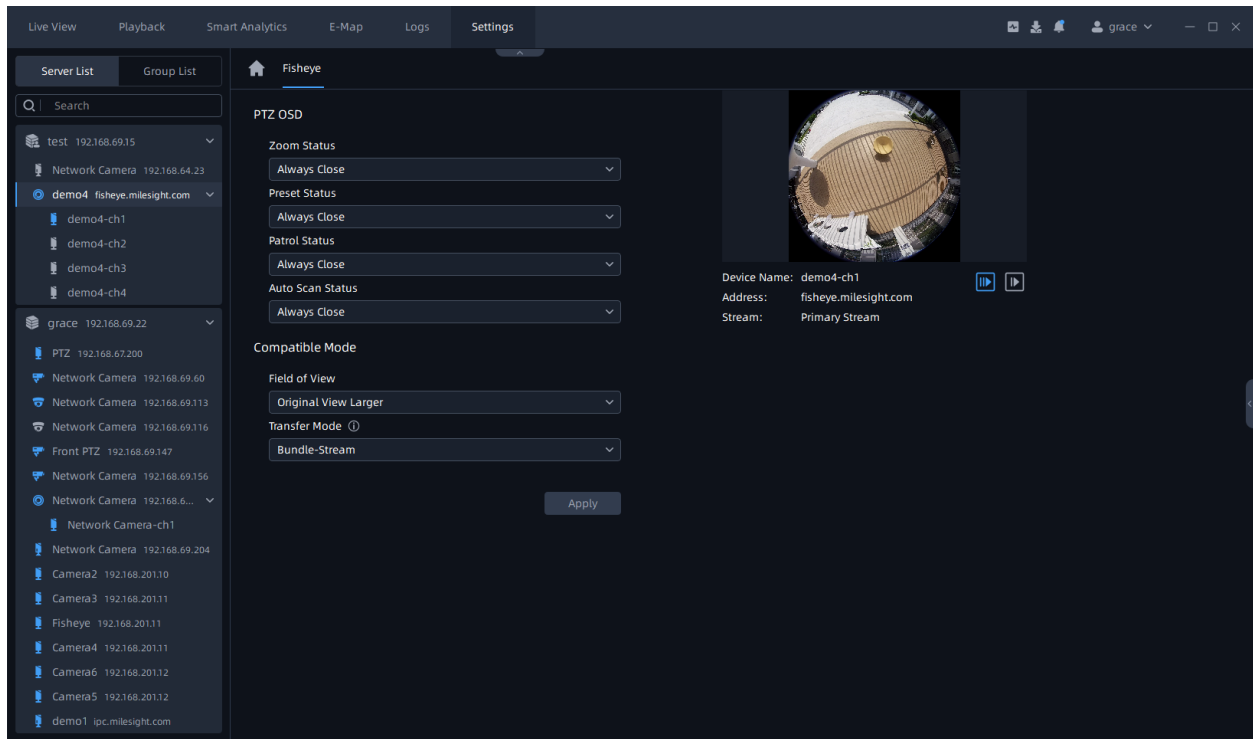
The screenshot displays the VMS Settings interface. The top navigation bar includes 'Live View', 'Playback', 'Smart Analytics', 'E-Map', 'Logs', and 'Settings'. The 'Settings' tab is active, and the 'Config Clear' sub-tab is selected. On the left, a 'Server List' shows a tree view with 'PTZ 192.168.67.200' selected. The main area is titled 'Config Clear' and contains a list of checkboxes for clearing various configurations: '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'. An 'Apply' button is located below this list. To the right, a live video feed shows a street scene with a timestamp '04/02/2022 10:45:05'. Below the video, the device name is 'PTZ', the address is '192.168.67.200', and the stream is 'Primary Stream'. A PTZ control panel is visible, featuring a directional pad, a central stop button, and a zoom slider set to 5. At the bottom, a list of 8 presets is shown, each with a name, a refresh icon, a save icon, and a delete icon.

• 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 16.

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.
Field of View	Support optional Field of View on Fisheye camera. Original View Larger: With this option enabled, the original view (10) 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.

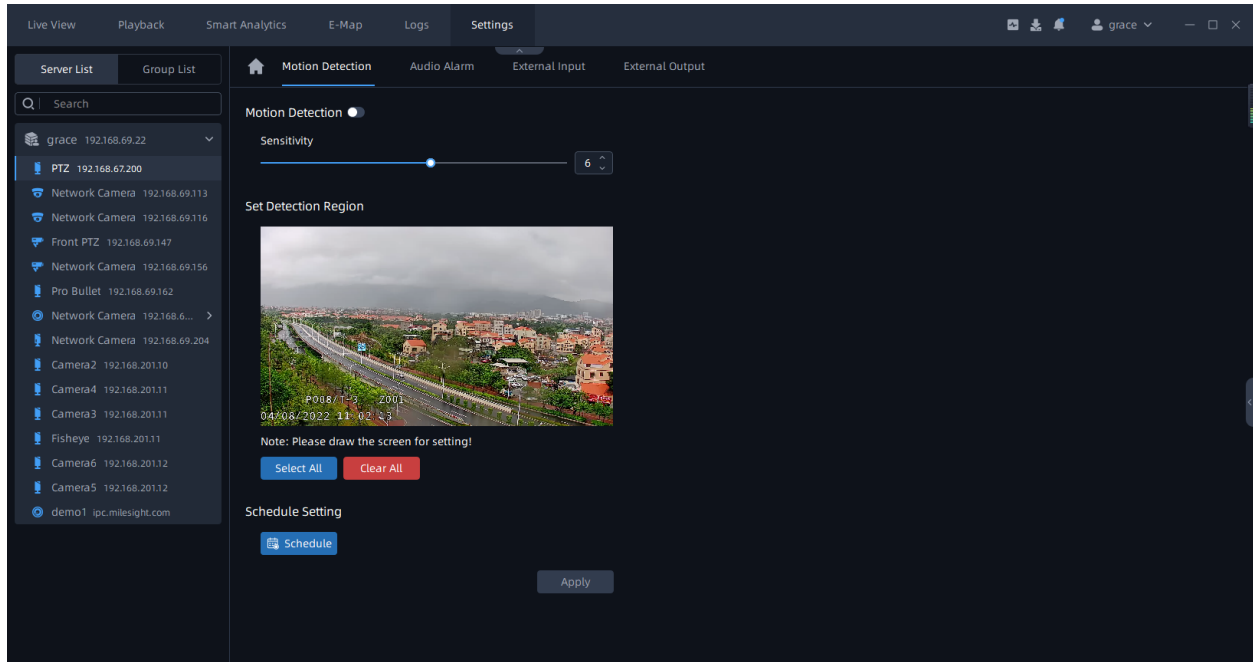
 **Note:** After finishing the settings, you can click the Apply button to apply your settings to the VMS software.


3.2.2.3 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;


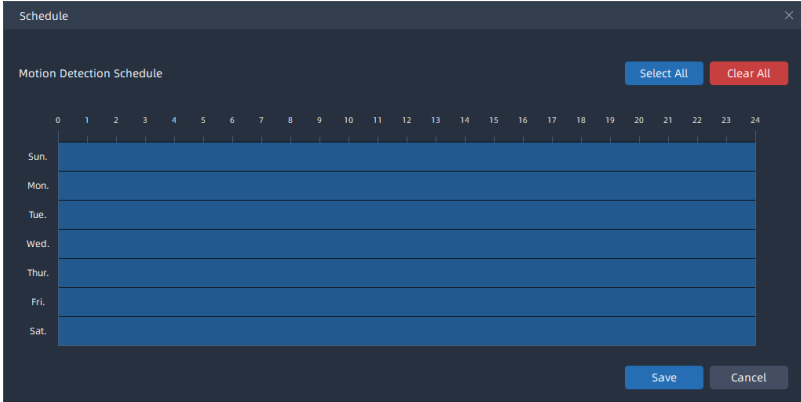
Step 2: Set Sensitivity and click  to set schedule;

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

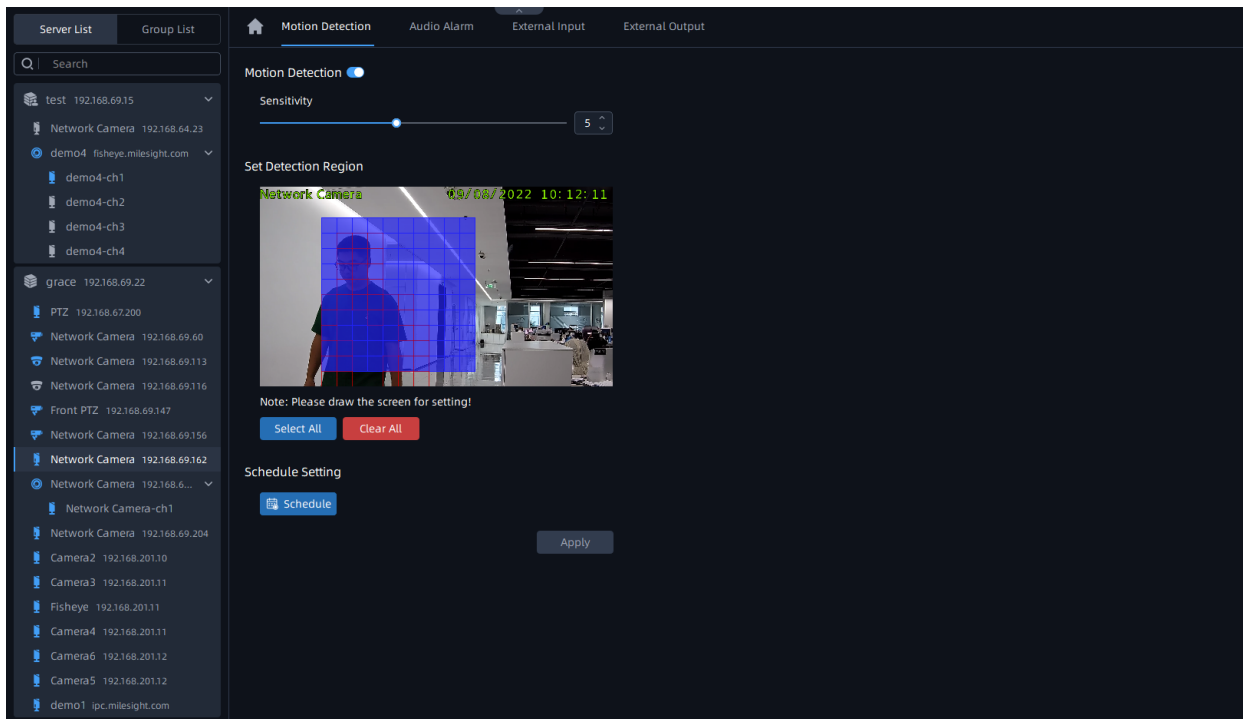
The meanings of the parameters on the page can be referred to the table below:

Table 17.

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.

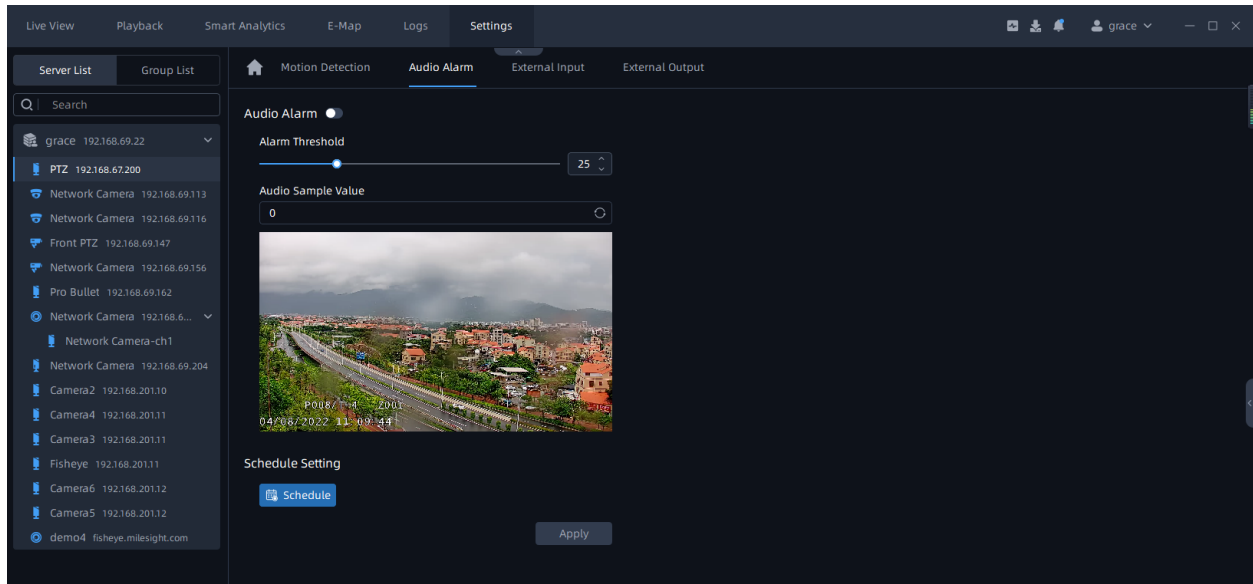
Parameters	Function Introduction
<p>Clear All</p>	<p>Click the button, and the area drawn before will be removed.</p>
	<p>Click the button to set schedule, a window will pop up as below:</p> 

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.



Step 1: Select the camera on the left tree which you want to set Audio Alarm. Make sure button is enabled;

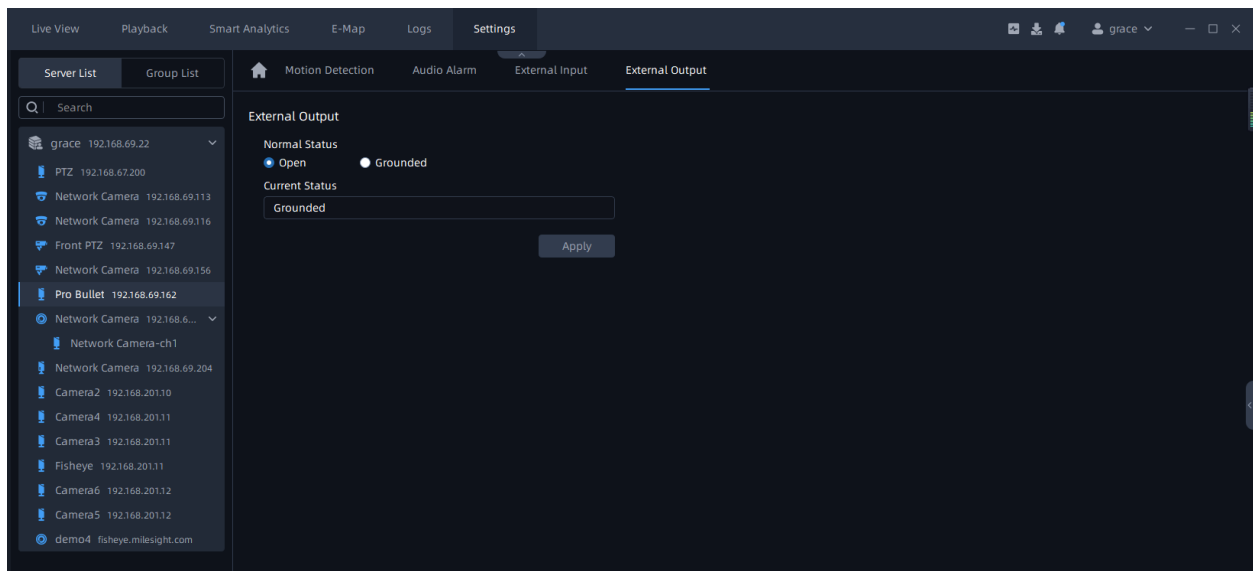
Step 2: Set Alarm Threshold and click  to set schedule;

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

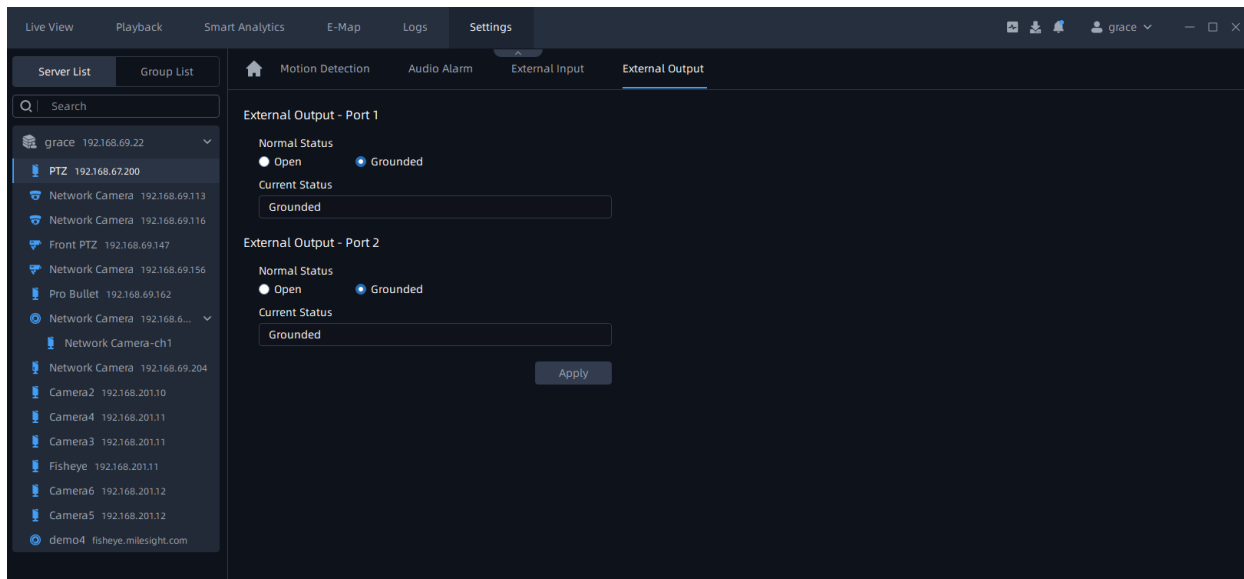
 **Note:** Audio Sample Value represents the current audio value, and only for refresh and check.

External Output

Single External Output:



Double External Output:



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

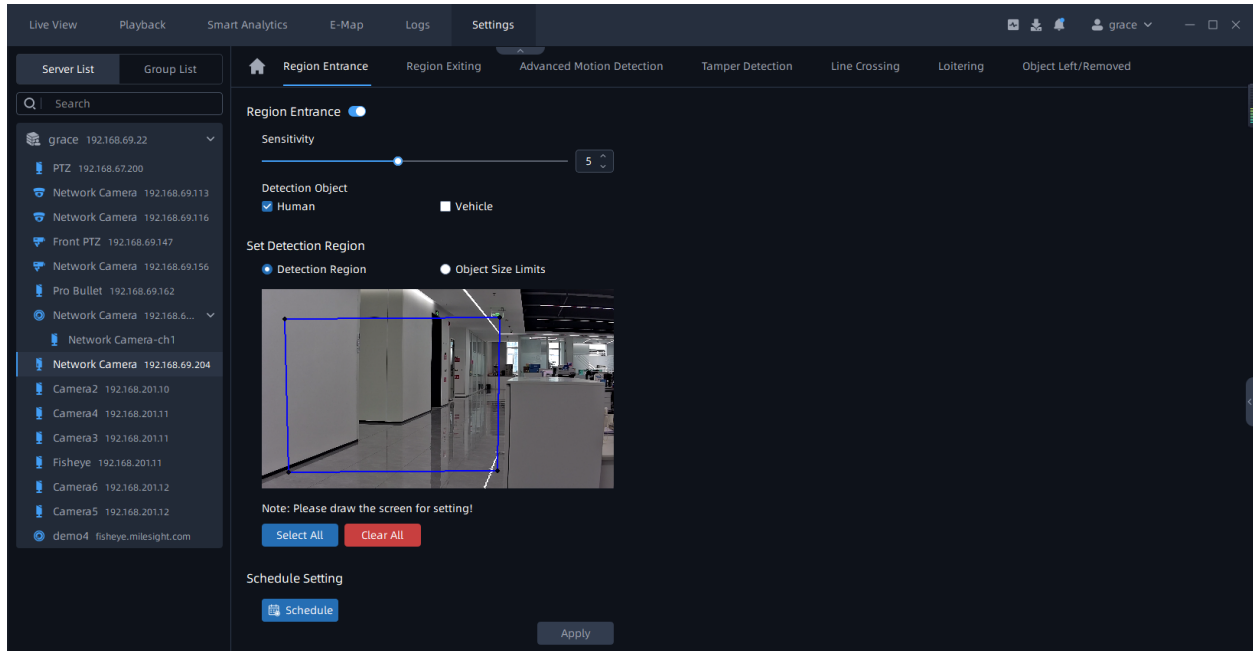
Note: There are two independently external input/output settings in the page because of some cameras with two sets of alarm input/output hardware.

3.2.2.4 Front-end VCA Event

Milesight VCA provides advanced, accurate smart video analytics for Milesight network cameras. It enhances the performance of network cameras through 10 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.

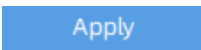
Step6: Set Object Size Limit.


- **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.

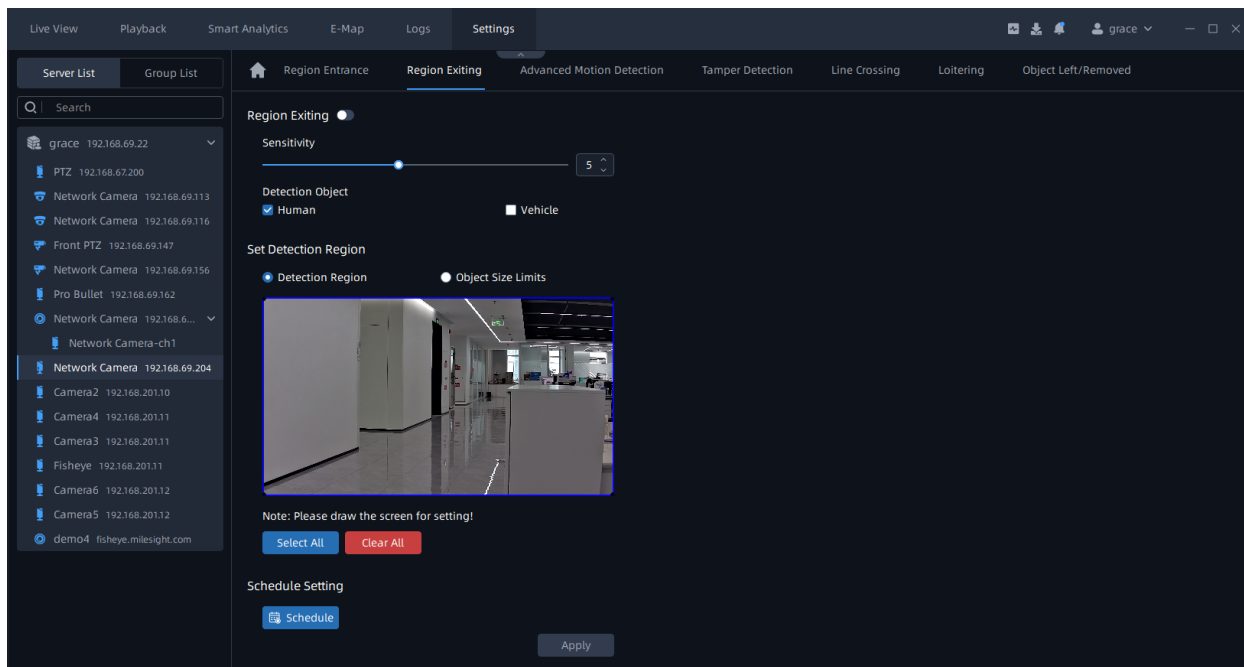
The default maximum size is 320*240.

Step7: Set detection schedule, then click  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.

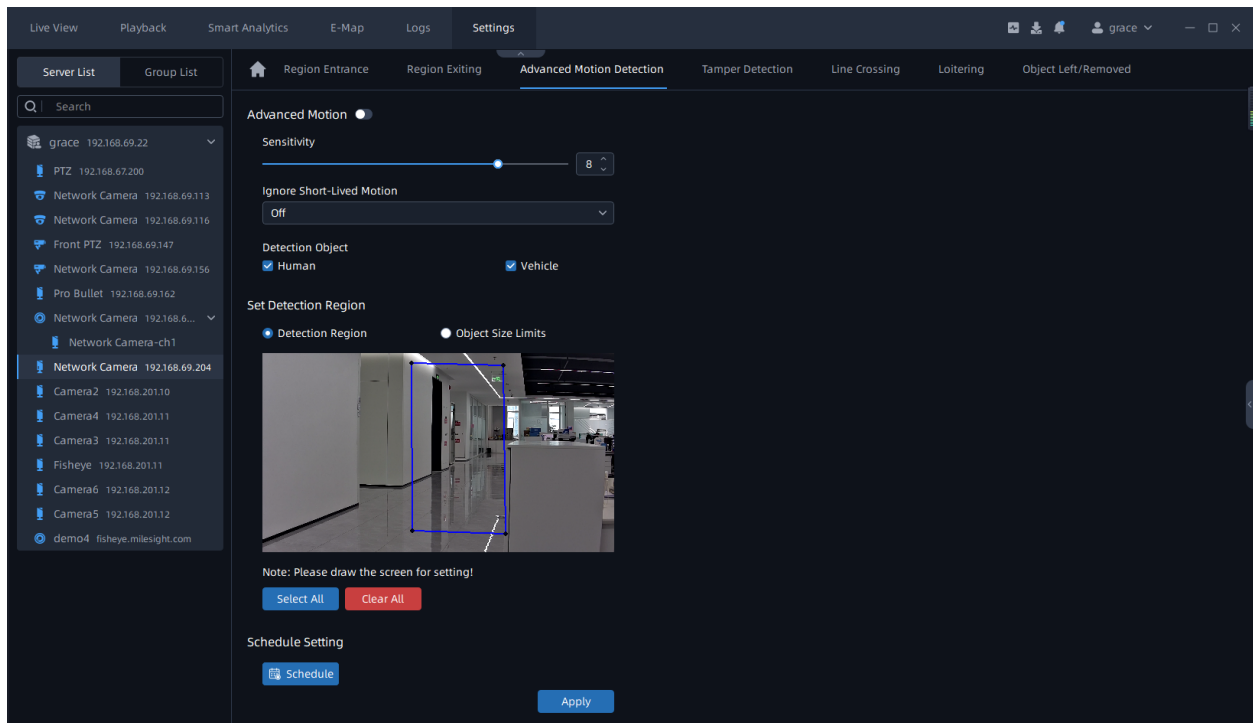
The default maximum size is 320*240.

Step7: Set detection schedule, then click  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.

Advanced Motion Detection

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



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.

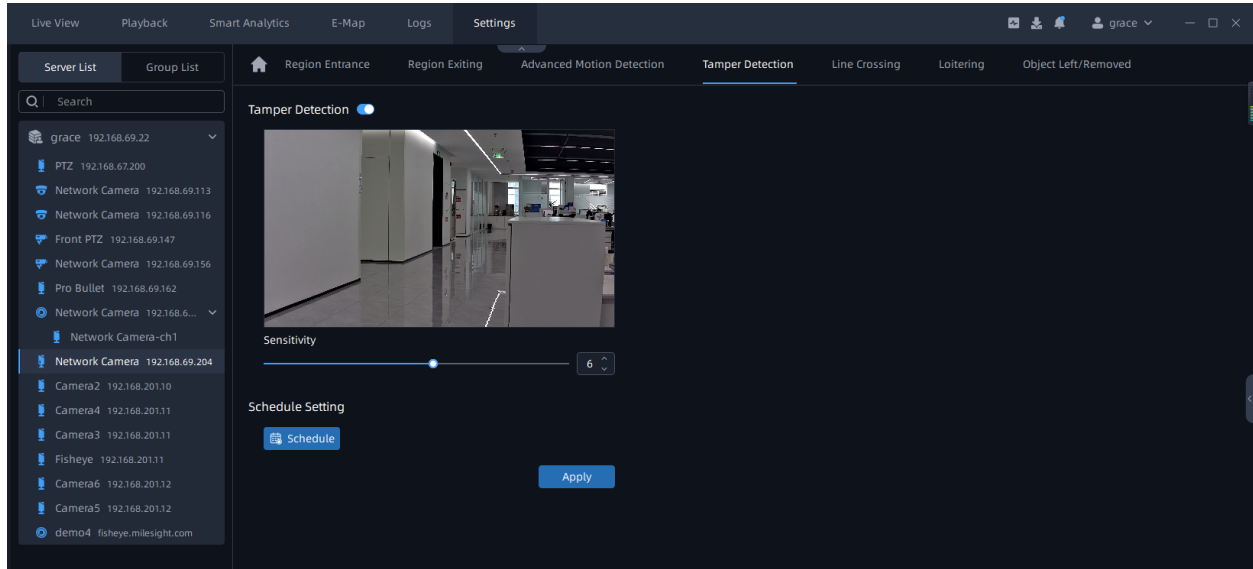
The default maximum size is 320*240.

Step7: Set detection schedule, then click  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 above-mentioned actions occur.



Step1: Select the camera and enable Tamper Detection function;

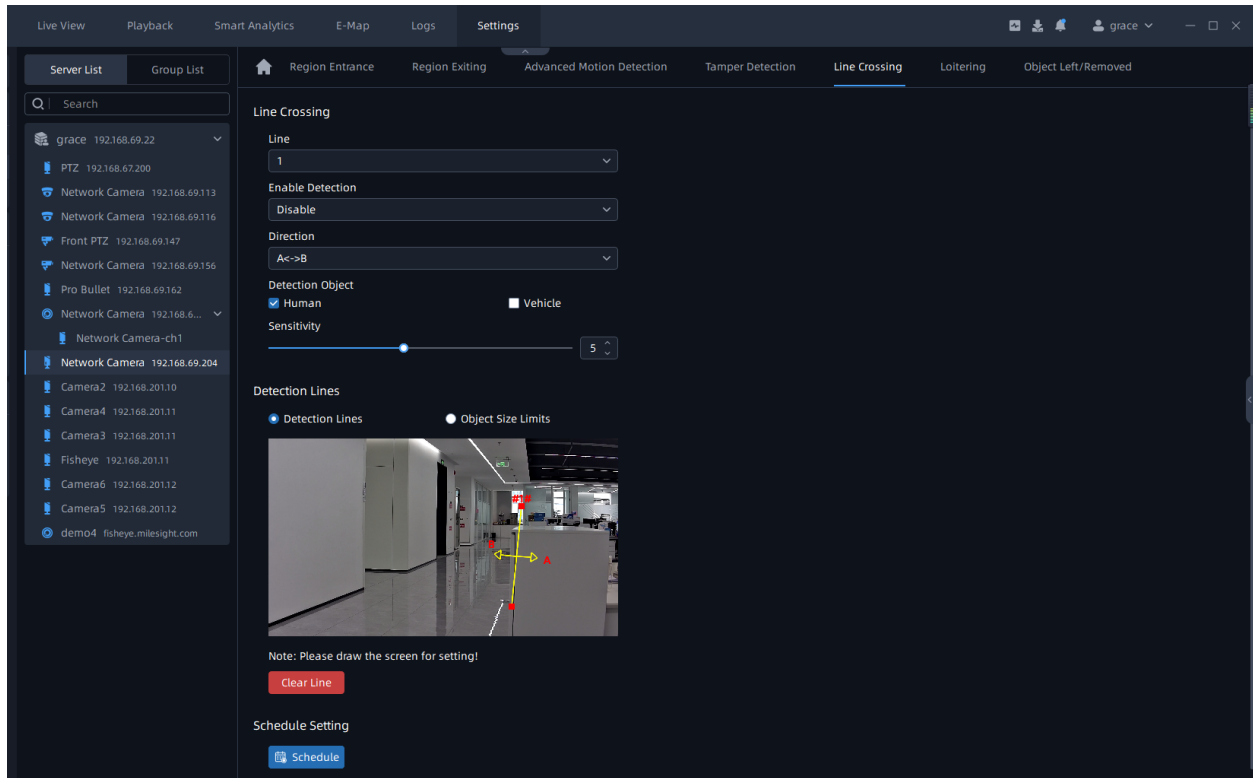
Step2: Set detecting sensitivity;

Step3: Set detection schedule, then click  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.

Step7: Draw the detection region.

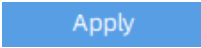
Step8: Set Object Size Limit.

- **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.

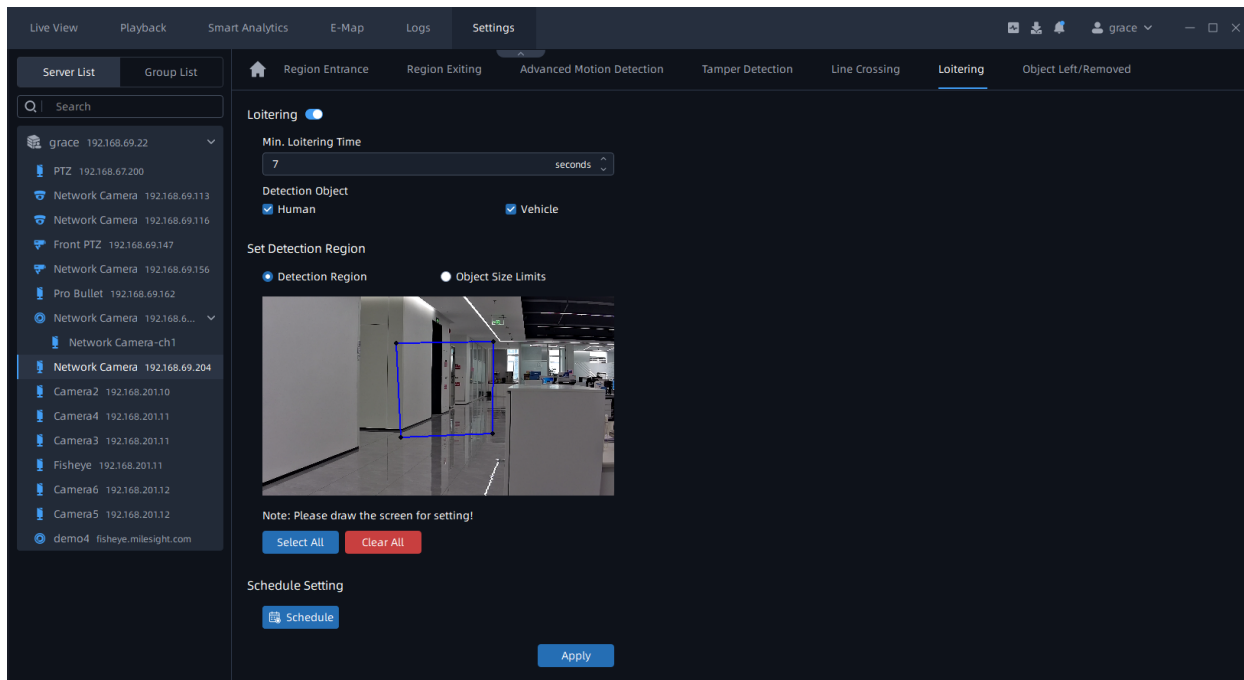
Step9: Set detection schedule, then click  to send the settings to camera to apply.

 **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.
- 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.

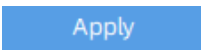
Step6: Set Object Size Limit.

- **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.

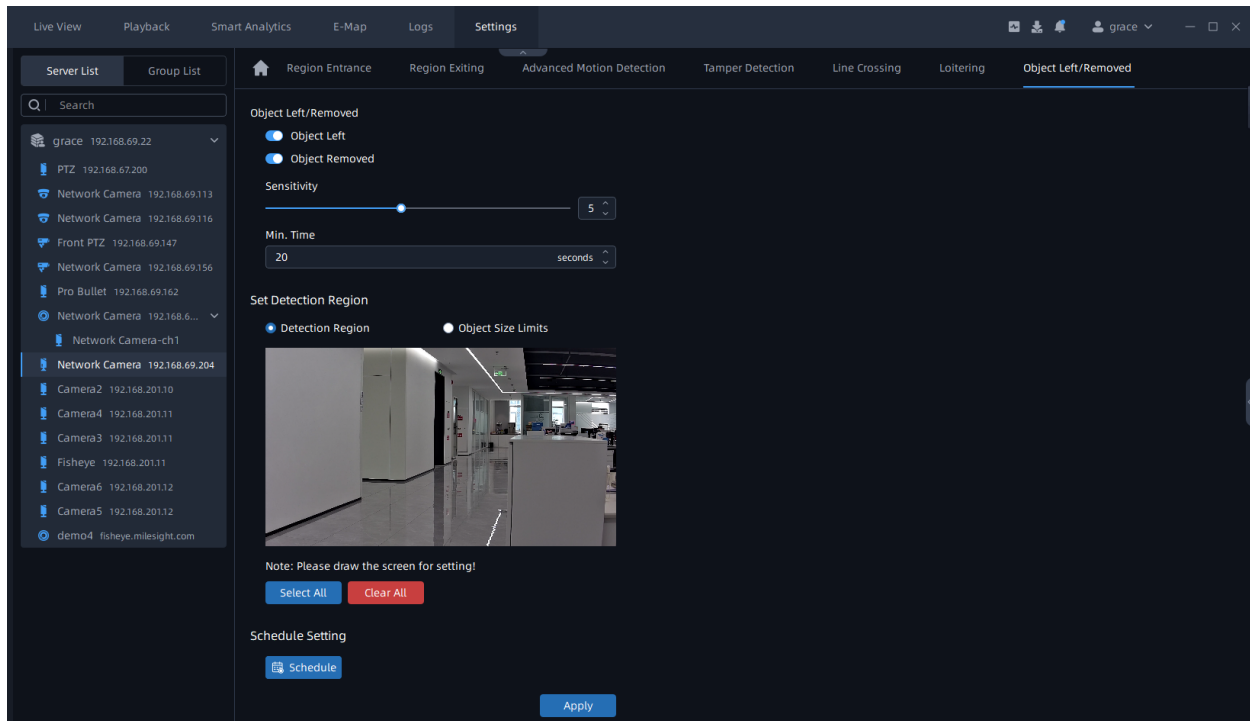
Step7: Set detection schedule, then click  to send the settings to camera to apply.

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  to send the settings to camera to apply.

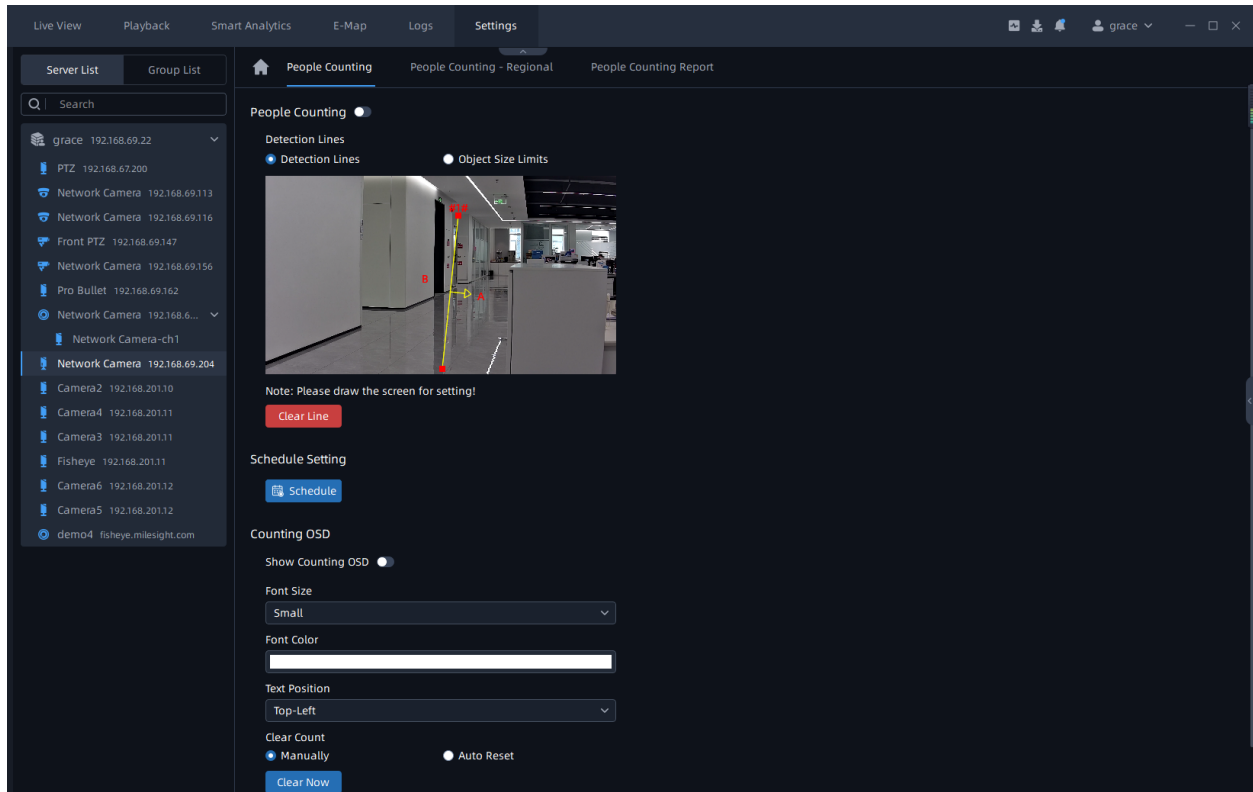
Step8: Click  to send the settings to camera to apply.

 **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.

3.2.2.5 Advanced Event

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;

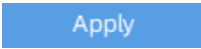
Step4: Set Object Size Limit.

- **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  to send the settings to camera to apply.

Step6:Set Counting OSD;

The screenshot shows the 'Counting OSD' configuration window. It includes a toggle for 'Show Counting OSD' which is currently turned on. Below this are three dropdown menus: 'Font Size' set to 'Small', 'Text Position' set to 'Top-Left', and 'Font Color' which is currently empty. There are two radio buttons for 'Clear Count': 'Manually' (selected) and 'Auto Reset'. A blue 'Clear Now' button is located below the 'Manually' option. An 'Apply' button is at the bottom right of the window.

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:

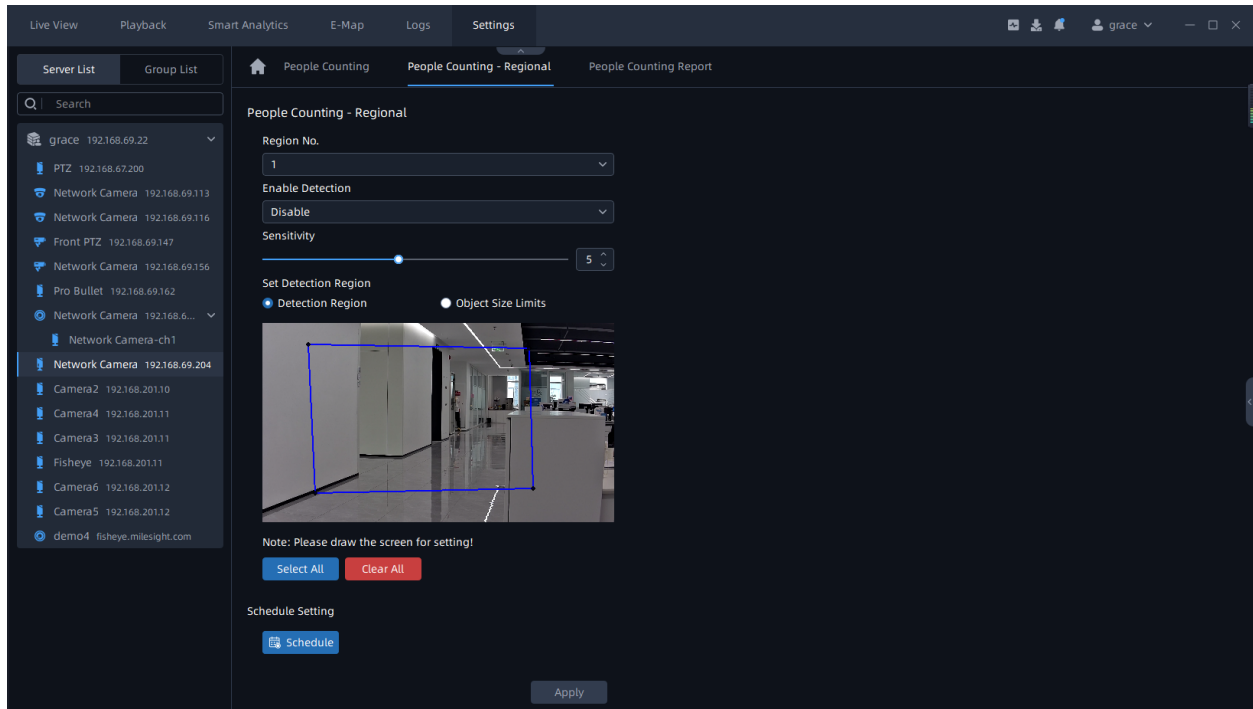
This screenshot shows the 'Auto Reset' configuration section. It features two radio buttons: 'Manually' and 'Auto Reset', with 'Auto Reset' selected. Below the radio buttons is a dropdown menu for 'Day to Reset' set to 'Everyday'. Underneath is a text input field for 'Time to Reset' containing '11:28:10'. An 'Apply' button is positioned at the bottom right.

This screenshot shows a vertical list of days for selection in a dropdown menu. The options are: 'Everyday', 'Sun.', 'Mon.', 'Tue.', 'Wed.', 'Thur.', 'Fri.', 'Sat.', and 'Everyday'. The 'Thur.' option is currently highlighted with a dark background.

Step7: Click  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.;

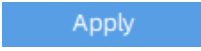
Step4: Set Object Size Limit.

- **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.

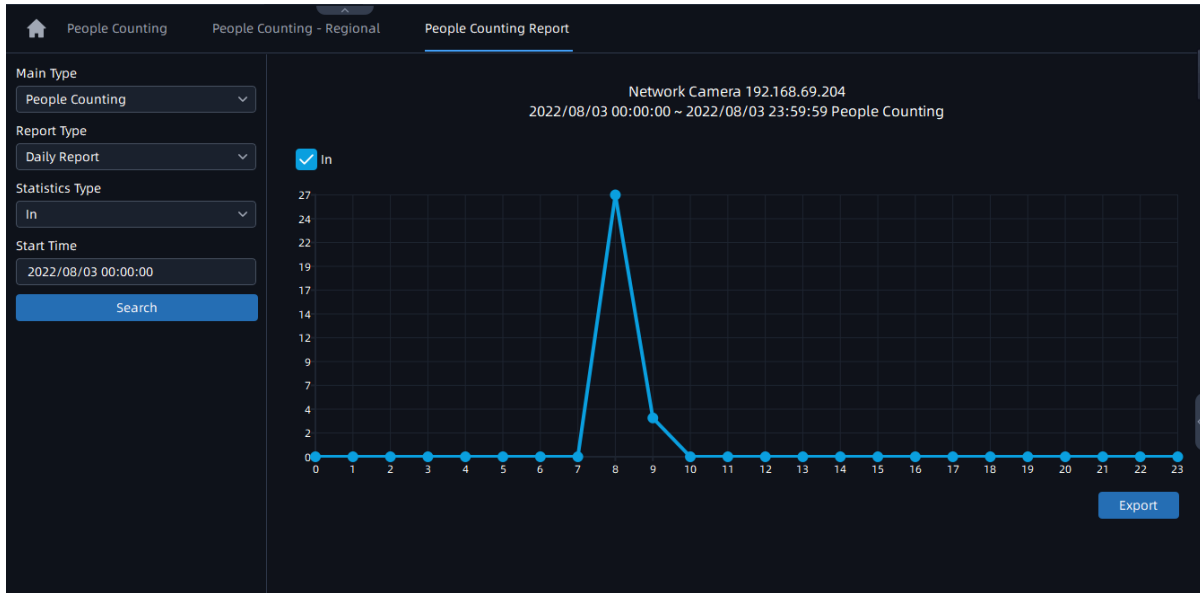
- **Maximum Size:** Draw the screen or input pixel number to set the maximum size of the detected object. When the object is larger than this size, it will not be detected.

The default maximum size is 320*240.

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

Report

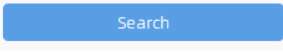
The results during the enabling period will be displayed on “Report” interface.



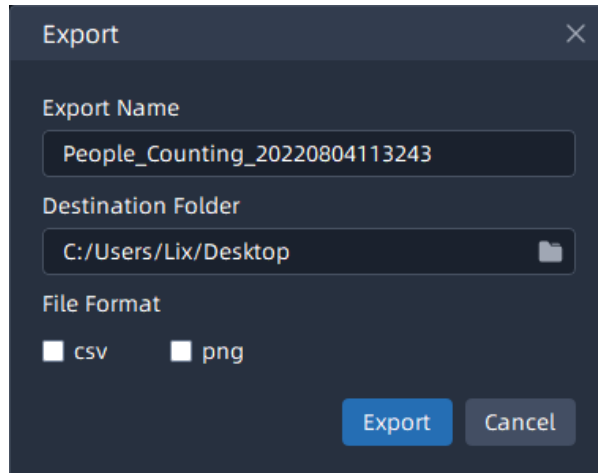
Step1: Select Main Type;

Step2: Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report;

Step3: Select Statistics Type including In, Out and Sum;

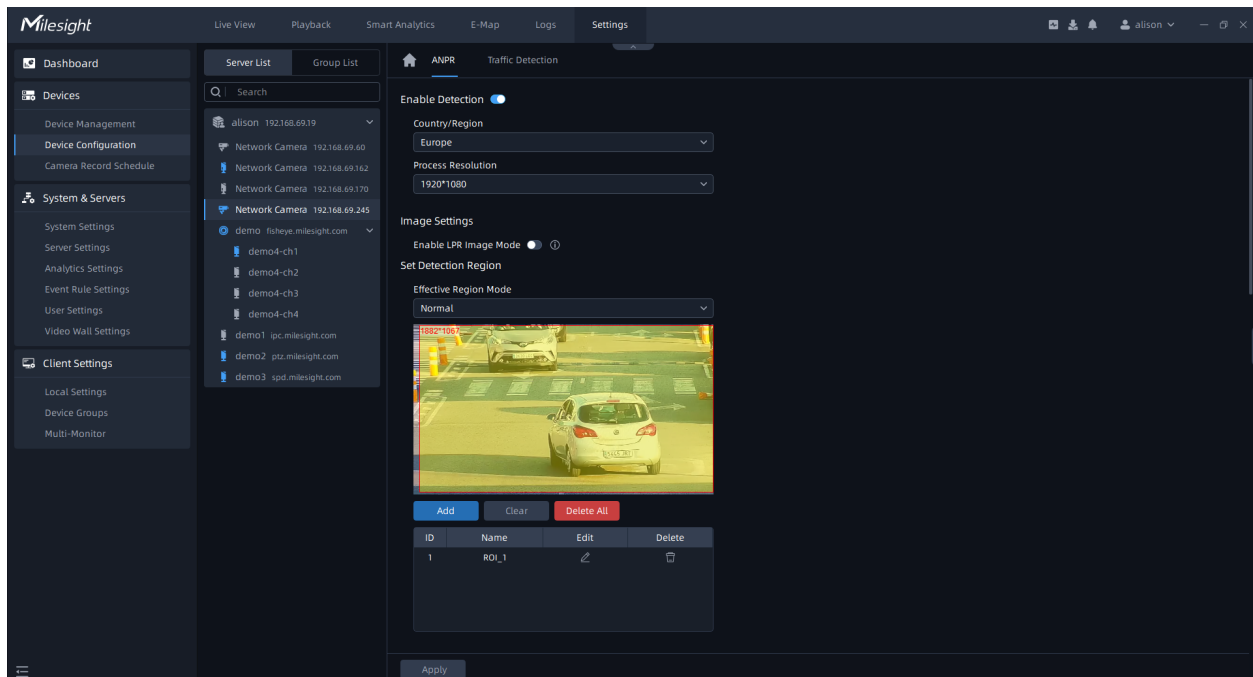
Step4: Select Start Time, then click  button, it will automatically count the data for the day/ week/ month/ year (based on the report type selected by the user) from the start time and generate the corresponding report;


Step5: Click  button to pop up the Export window as shown below, and you can choose File Format to export the report to local.



ANPR

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



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

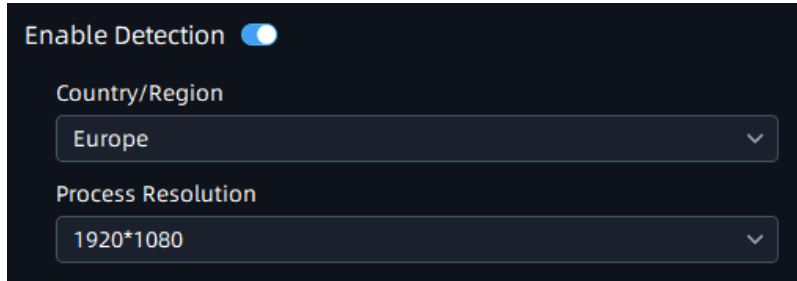

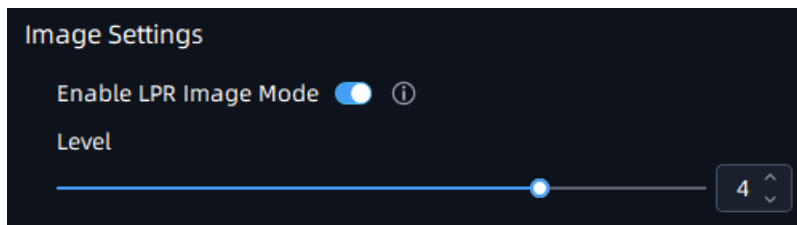


Table 18.

Parameters	Function Introduction
	Click the button to enable detection function.
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.



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

Normal Mode:

Set Detection Region

Effective Region Mode

Normal



1882*1067

Add Clear Delete All

ID	Name	Edit	Delete
1	ROI_1		

Advanced Mode (For PTZ camera):

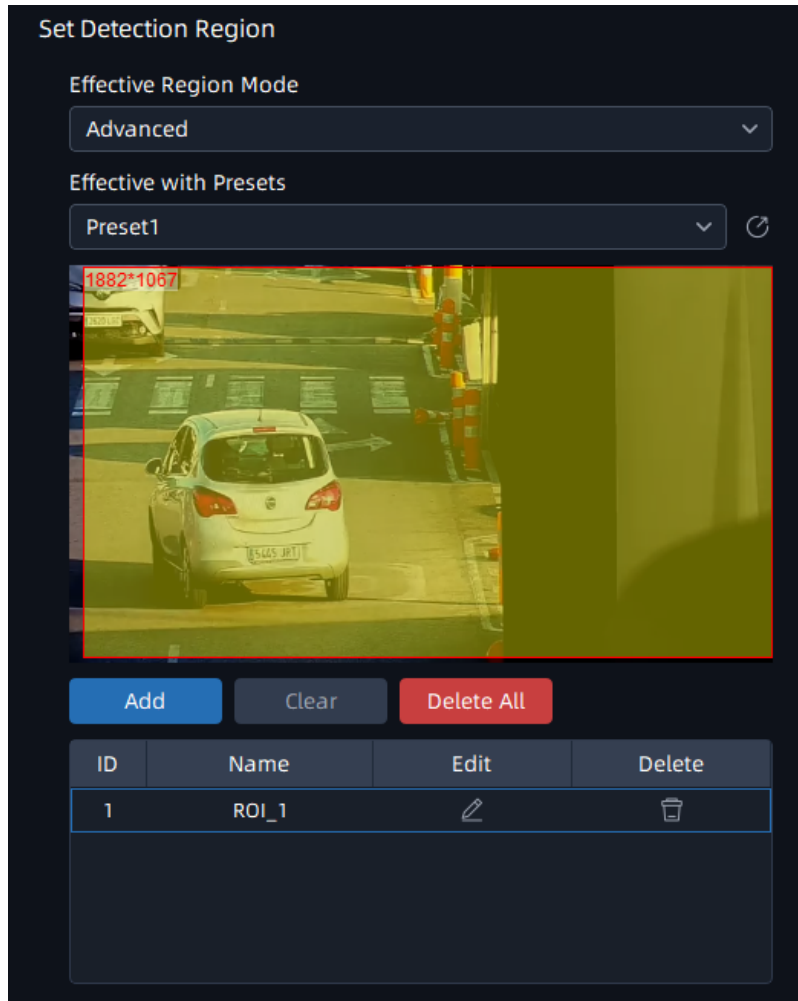



















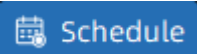
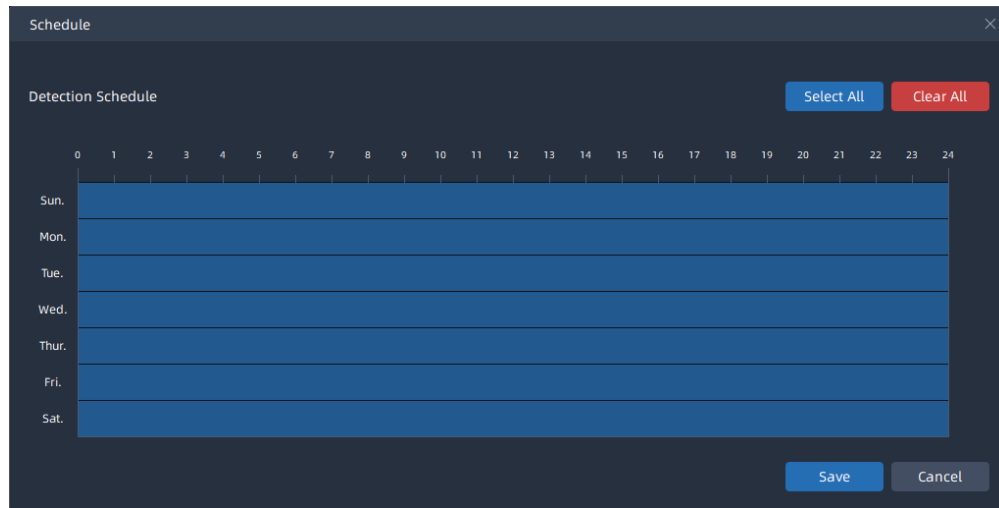


Table 19.

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

Parameters	Function Introduction																
<p style="text-align: center;">Add</p>	<p>Draw the screen to select the interested areas, then click "Add" button to add the area, and only four recognition areas can be added.</p> <p>You can edit the name of the areas or delete the areas in the list below.</p> <table border="1" data-bbox="581 478 1377 751"> <thead> <tr> <th>ID</th> <th>Name</th> <th>Edit</th> <th>Delete</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ROI_1</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>ROI_2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>ROI_3</td> <td></td> <td></td> </tr> </tbody> </table> <p> Note: Minimum width of detection area is 150 pixels, and Minimum height of detection area is 40 pixels.</p>	ID	Name	Edit	Delete	1	ROI_1			2	ROI_2			3	ROI_3		
ID	Name	Edit	Delete														
1	ROI_1																
2	ROI_2																
3	ROI_3																
<p style="text-align: center;">Clear</p>	<p>Click the "Clear" button to clear the area being drawn.</p>																
<p style="text-align: center;">Delete All</p>	<p>Click the "Delete All" button to delete all the added areas.</p>																

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



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

Detection Settings

Detection Trigger

Repeat Plate Checktime

License Plate Serial Format

Features Identification

All

Plate Color Vehicle Type

Vehicle Color Detection Region

Direction

Snapshot OSD

Font Size

Font Color

Enable Background Color

OSD Position

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

LPR Message Post Settings

Enable LPR Message Post

Post Type ⓘ

TCP


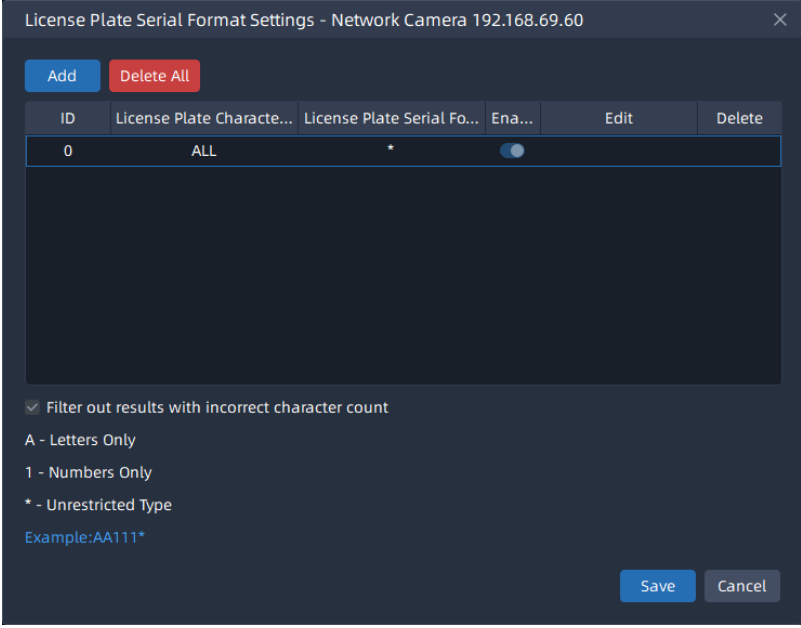
Camera LPR Port

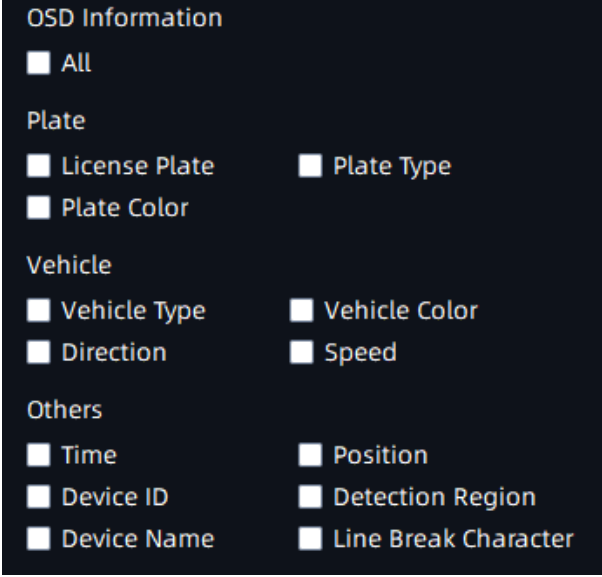

3344

[Apply](#)

Table 20.

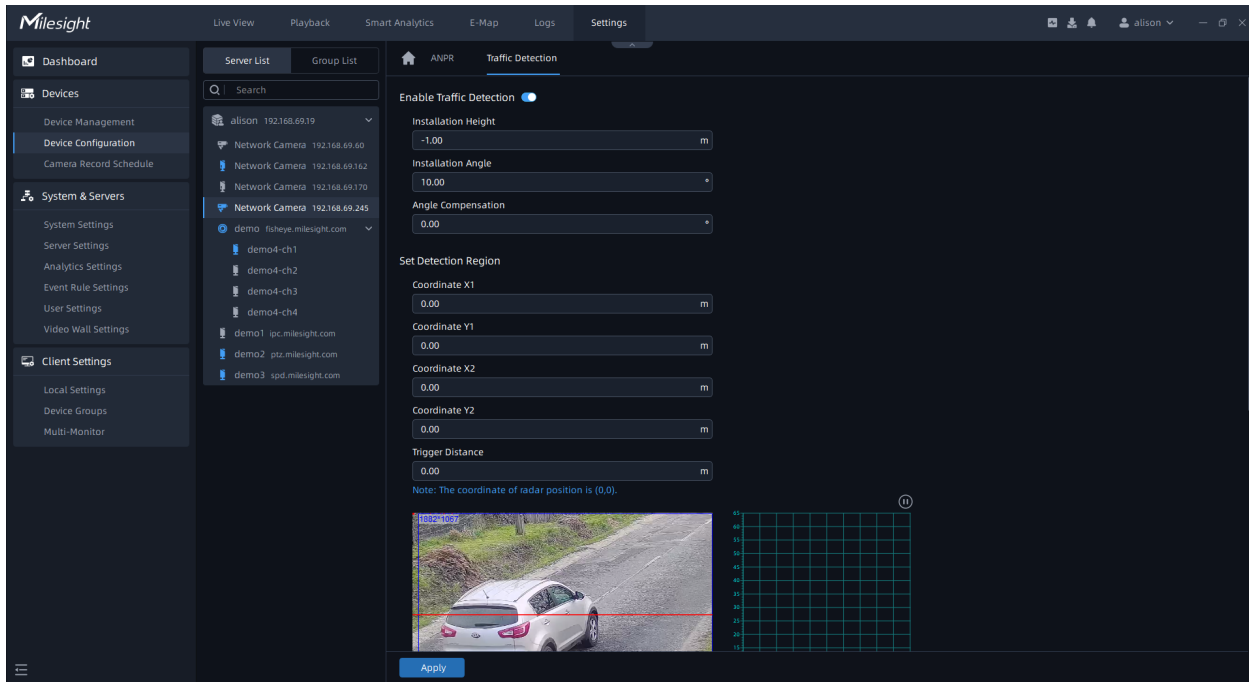
Parameters	Function Introduction
Detection Trigger	<p>Always: in this mode, camera will always detect license plates.</p> <p>Alarm Input: in this mode, camera will only detect license plates during Alarm Input is being triggered.</p>
Confidence Level	<p>You can set the confidence level from 1 to 10.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

Parameters	Function Introduction
<p>License Plate Serial Format</p>	<p>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.</p> 
<p>Features Identification</p>	<p>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.</p>
<p>Font Size</p>	<p>Small/Medium/Large are available.</p>
<p>Font Color</p>	<p>Set different colors for the image OSD.</p>
<p>Enable Background Color</p>	<p>Enable to set different colors for display information background on screen.</p>
<p>OSD Position</p>	<p>OSD display position on the image .</p>

Parameters	Function Introduction
OSD Information	<p>Customize the OSD content. You can set OSD Information as shown below:</p> 
Enable LPR Message Post	<p>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.</p>
Post Type	<p>Information can be pushed by RTSP, TCP or HTTP.</p> <p>TCP: Default Post Type, recommended for current VMS.</p> <p>HTTP: To push License Plate information to the configured HTTP server.</p> <p>RTSP: Only works with those server which support to receive ONVIF alarm stream via RTSP.</p>
HTTP Method	<p>There are two HTTP push methods: Post and Get.</p>
Snapshot Type	<p>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.</p> <p> Note: This option is available just for Post HTTP Method.</p>
HTTP Notification URL	<p>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: http://IP:Port/api/lpr?</p>
User Name	<p>User name for HTTP Server.</p>

Parameters	Function Introduction
Password	Password for HTTP Server.
Camera LPR Port	This option is available for TCP Post type.

Traffic Detection



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

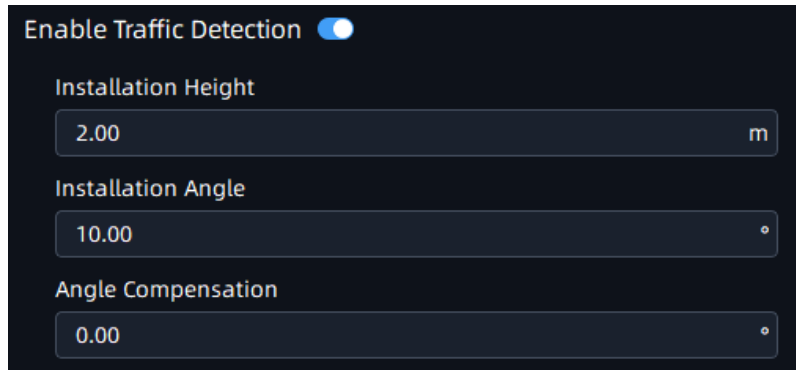



Table 21.

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;

Set Detection Region

Coordinate X1
 m

Coordinate Y1
 m

Coordinate X2
 m

Coordinate Y2
 m

Trigger Distance
 m

Note: The coordinate of radar position is (0,0).

Table 22.

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 23.

Parameters	Function Introduction
Show OSD	Users can choose the information they want to display in Live Video.
Font Size&Font Color	The font size and color of the OSD display, the default size is Medium.
Manually	Manually reset the vehicle count.
Auto Reset	It is used to automatically clear the vehicle count at regular intervals (Just reset the OSD count for Live Video).

Traffic OSD

Show OSD

Speed
 Direction

Distance
 Azimuth

Vehicle Counting

Font Size

Medium ▼

Font Color

Clear Count

Manually
 Auto Reset

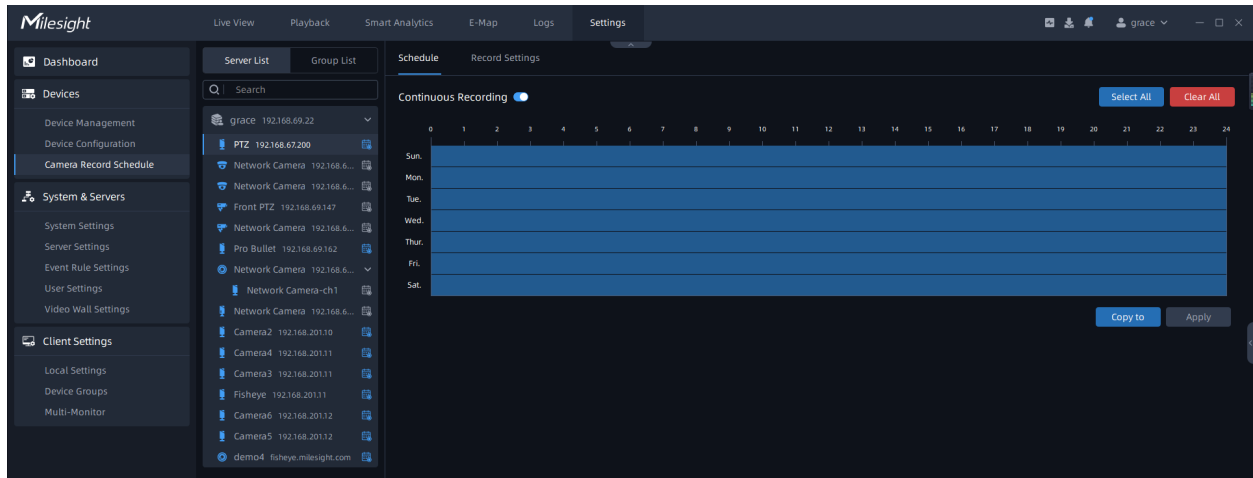
Clear Now

Apply

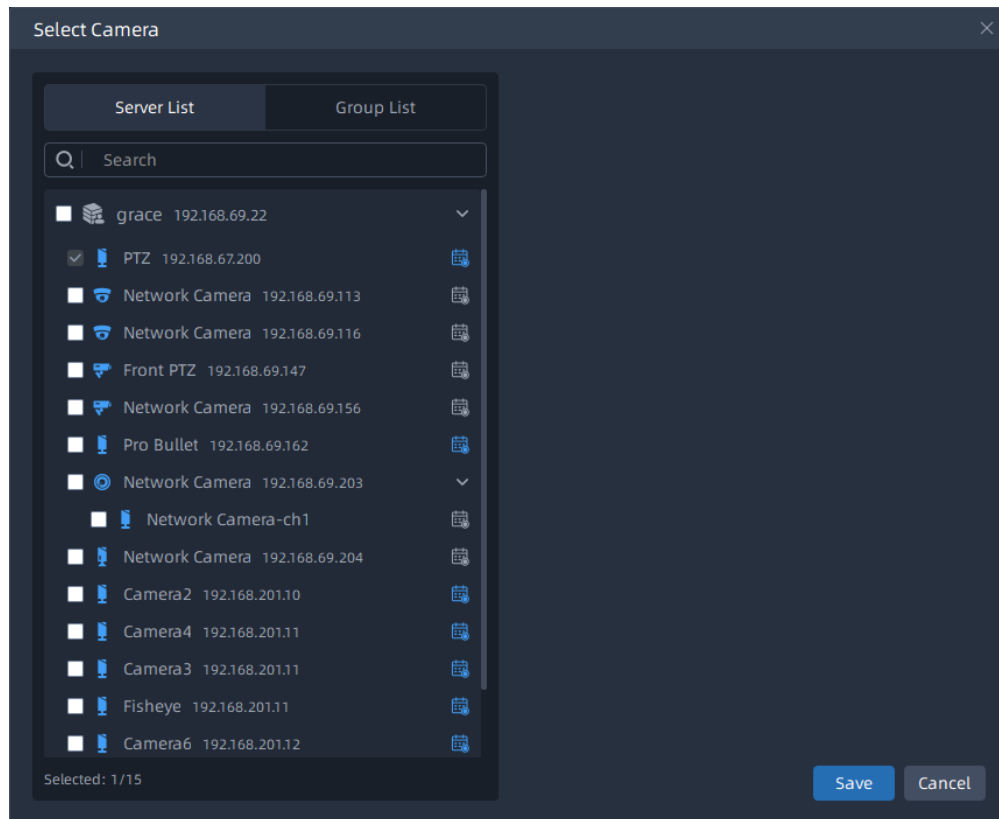
3.2.3 Camera Record Schedule

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.

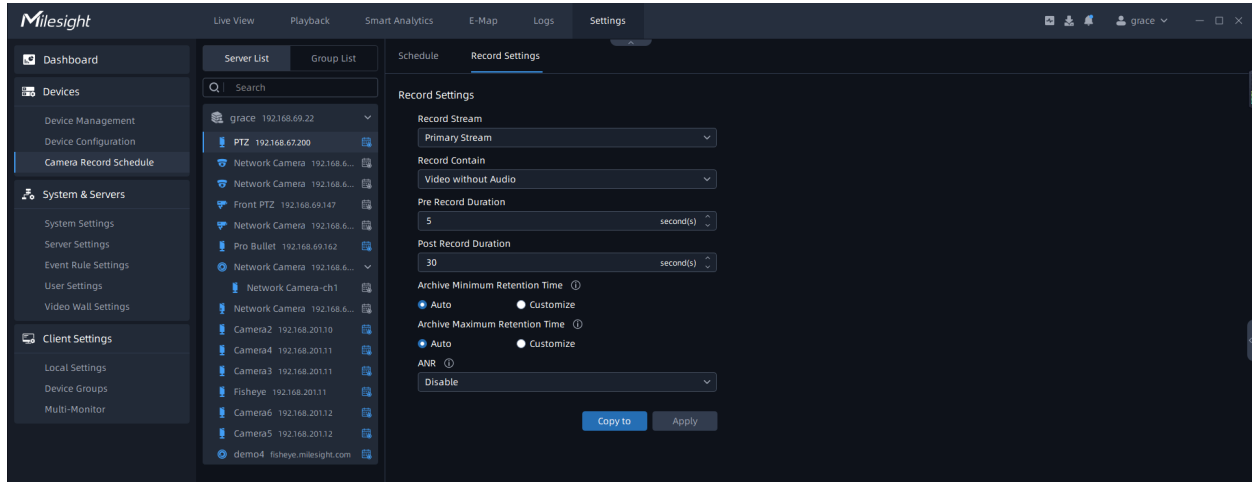


When you click “Copy to” button, the page will show as below. You can check channels in which you are interested, and click Save button to apply your schedule to the other channels.




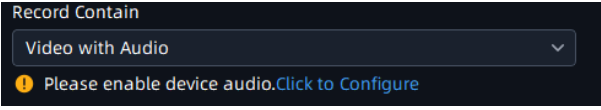


Record Settings


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



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

Table 24.

Items	Function Introduction
Record Stream	Choose Primary stream , Secondary Stream or Dual Stream to record video.
Record Contain	<p>You can choose Video with Audio or Video without Audio to record video.</p> <p> Note: When the recording is enabled with audio, it will pop up this prompt to show the audio status of the current channel.</p> 
Pre Record Duration	Enable the function for Continuous Recording schedule. re Record Duration can be set from 1~10s, the default time is 5s.
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	<p>Choose Auto, 30 days, 60 days, 90 days or Customize to set Archive Minimum Retention Time.</p> <p> Note: The customized archive due time is from 1 to 365 days.</p>
Archive Maximum Retention Time	<p>Choose Auto, 30 days, 60 days, 90 days or Customize to set Archive Maximum Retention Time.</p> <p> Note: The customized archive due time is from 1 to 365 days.</p>

Items	Function Introduction
ANR	<p>Enable or disable ANR function. This function is independent of schedule.</p> <p> Note: Please make sure that you have the network storage device within the network or the SD card inserted in your camera.</p>

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.

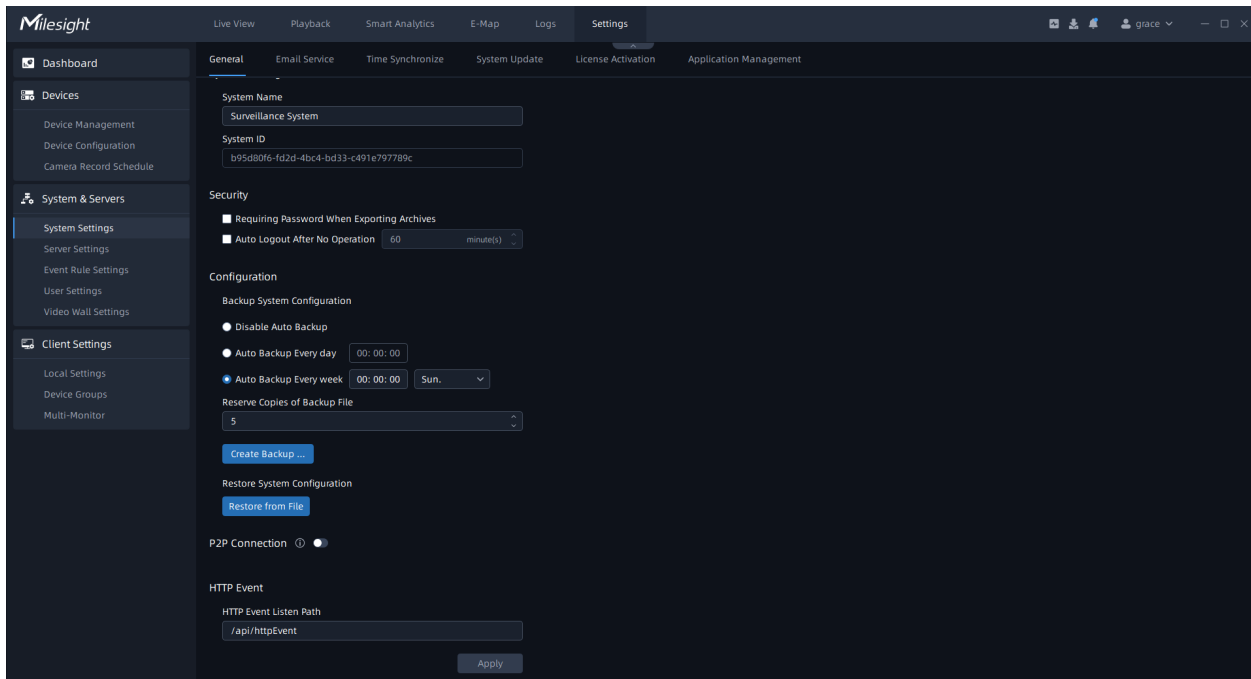
3.3 System and Servers

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:

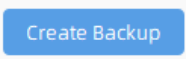
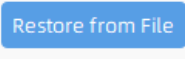


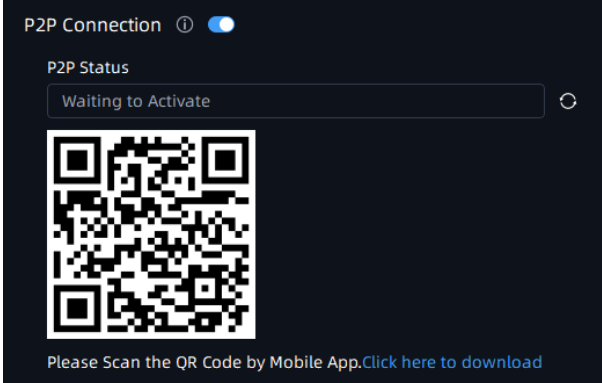
The screenshot displays the Mlesight web interface for System Settings - General. The left sidebar contains navigation options: Dashboard, Devices, System & Servers, and Client Settings. The main content area is divided into several sections:

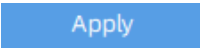
- System Name:** Surveillance System
- System ID:** b95d80f6-fd2d-4bc4-bd33-c4916797789c
- Security:**
 - Requiring Password When Exporting Archives
 - Auto Logout After No Operation: 60 minute(s)
- Configuration:**
 - Backup System Configuration:**
 - Disable Auto Backup
 - Auto Backup Every day: 00:00:00
 - Auto Backup Every week: 00:00:00, Sun.
 - Reserve Copies of Backup File: 5
 - [Create Backup ...](#)
 - Restore System Configuration:**
 - [Restore from File](#)
 - P2P Connection:
 - HTTP Event:**
 - HTTP Event Listen Path: /api/httpEvent
 - [Apply](#)

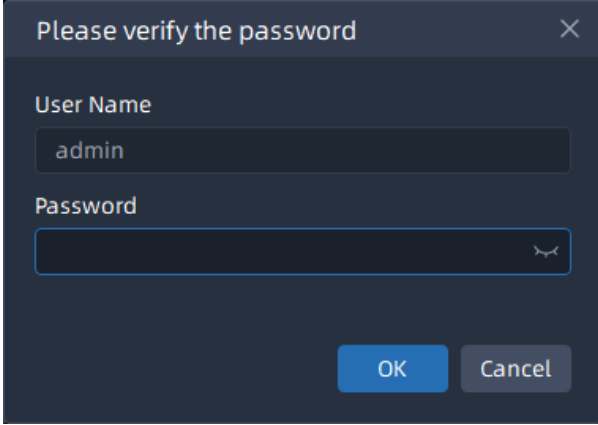
The meanings of the items on the page can be referred to the table below:

Table 25.

Items	Function Introduction
System Name	You can customize the system name.
Security	<p>Requiring Password When Exporting Archives: Select the check box to set the password when exporting the archives.</p> <p>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.</p>
Backup System Configuration	<p>Disable Auto Backup: Select the check box to disable auto backup.</p> <p>Auto Backup Everyday: Select the check box to enable auto backup at certain times everyday.</p> <p>Auto Backup Every week: Select the check box to enable auto backup at certain times of the day each week.</p> <p>Reserve Copies of Backup File: You can choose the number of the copies of backup file (5-10).</p> <p>You can also click  to back up system configuration manually.</p>
Restore System Configuration	Click  to restore system configuration.
HTTP Event	HTTP Event Listen Path can be set by yourself.

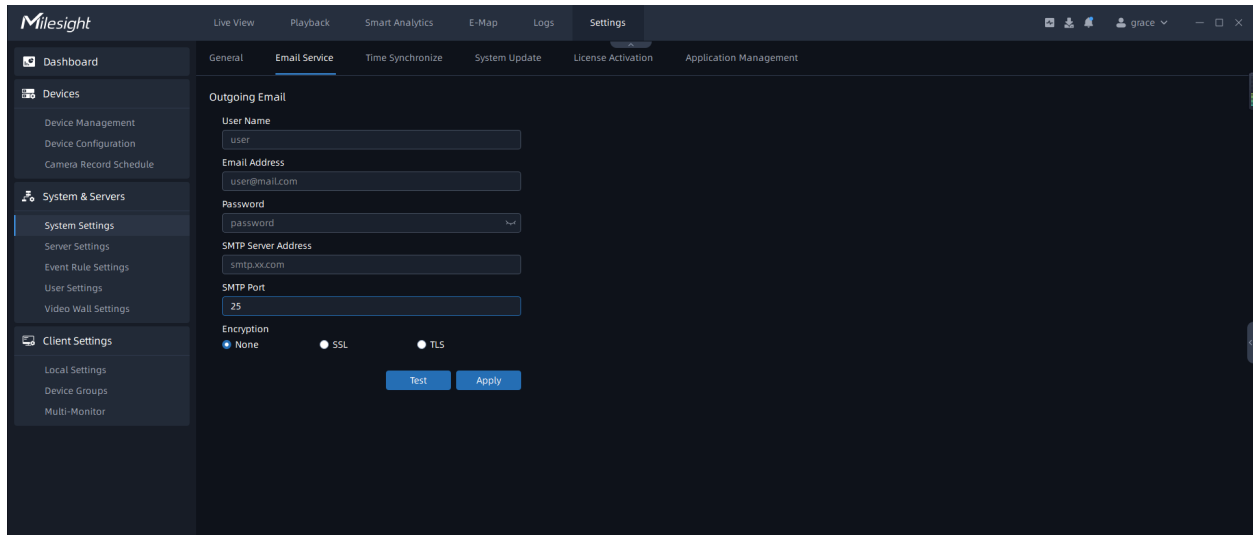
Items	Function Introduction
P2P Connection	<p>Allowing M-VMS Mobile APP to access the system through the Internet in P2P mode.</p>  <p>Note: You can download the M-VMS Mobile APP in the link: https://www.milesight.com/support/download</p>

After finishing the settings, click  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.



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:



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

Table 26.

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.

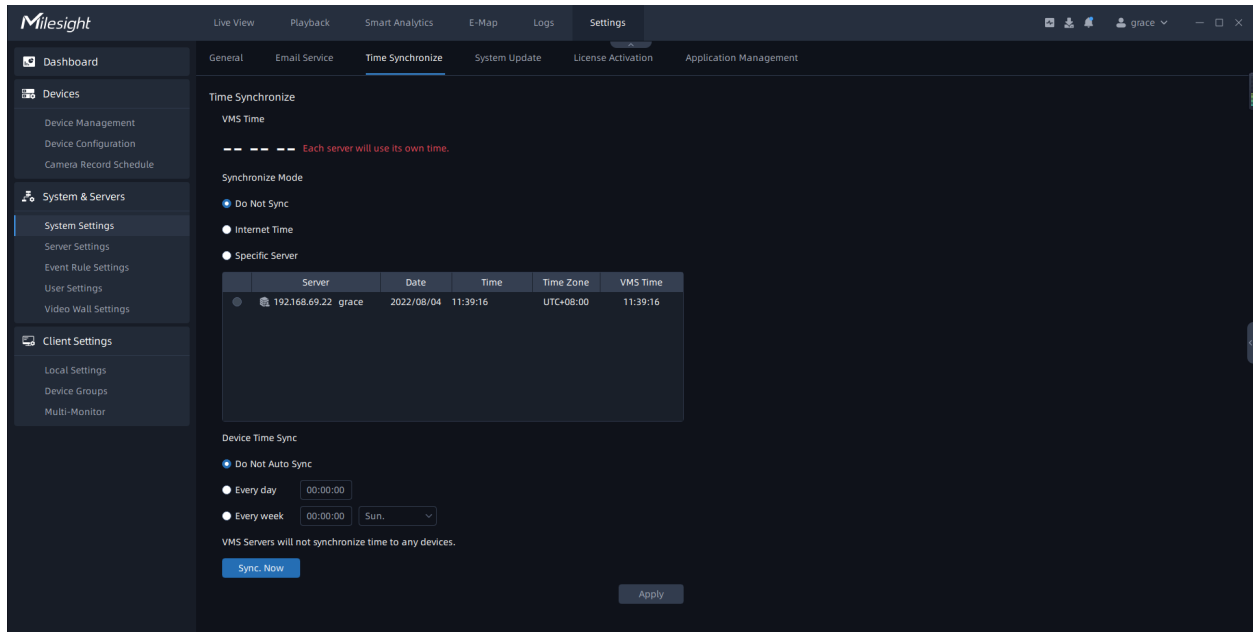
After finishing the settings, you can click “Test” button to send a test email to the recipient email address, then click “Apply” button. If you want to see the setting effect, then you need to set event action as Send Email and Email Address of the receiver user which email will be sent to.

More details about the Send Email action can see the table of [Event Rule Settings \(page 170\)](#).

More details about the Email Address of user which receive the emails can set in the [User Management \(page 184\)](#).

Time Synchronize

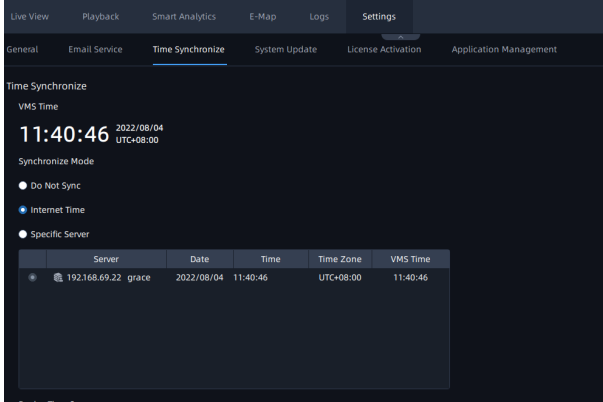
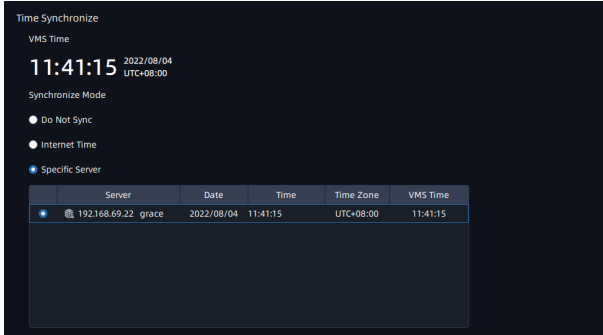

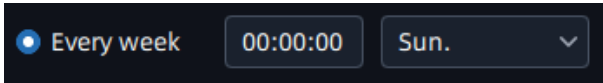
Users can set synchronize mode for VMS time, including Do Not Sync, Internet Time and Specific Server. In addition, users can synchronize VMS time to the devices. This page is as shown below:



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

Table 27.

Items		Function Introduction
Synchronize Mode	Do Not Sync	<p>Choose this item, then each server added to VMS system will use its own time as shown below:</p>

Items		Function Introduction
	Internet Time	<p>Choose this item, then VMS system will use Internet to synchronize time as shown below:</p> 
	Specific Server	<p>Check this item and choose a server time as VMS time as shown below:</p> 
Device Time Sync	Do Not Auto Sync	VMS Servers will not synchronize time to any device under this option.
	Every Day	<p>VMS Servers will synchronize VMS time to all devices every day according to the user's setting.</p> 
	Every Week	<p>VMS Servers will synchronize VMS time to all devices every week according to the user's setting.</p> 

Items		Function Introduction
	Sync. Now	Click this button and the VMS Server will synchronize time to all devices.

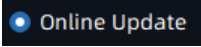

System Update


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

No.	Type	License Quantity	Activation Code	Server	Expiry Time	Status	Operation
1	Camera Access	64	1415-ea2f-9cdd-53ba	alison 192.168.69.19	Never expire	Working	⌵ ⌵
3	Video Analytics	16	1a20-0d42-470d-7133	alison 192.168.69.19	Never expire	Working	⌵ ⌵
4	Video Wall	8	abc2-fa00-90e8-16d8	alison 192.168.69.19	Never expire	Working	⌵ ⌵
5	ANPR	16	ce27-6e9a-ae68-f3e0	alison 192.168.69.19	2038/04/10 00:00:00	Working	⌵ ⌵

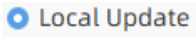

There are two update ways, including Online Update and Local Update.


• Online Update

Step1: Click  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  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.

No.	Type	License Quantity	Activation Code	Server	Expiry Time	Status	Operation
1	Camera Access	64	1415- ea2f- 9cdd- 53ba	alison 192.168.69.19	Never expire	Working	⊙ ☰
3	Video Analytics	16	1a00- 0d42- 470d- 7133	alison 192.168.69.19	Never expire	Working	⊙ ☰
4	Video Wall	8	ab2c- 6a00- 90e8- 16d8	alison 192.168.69.19	Never expire	Working	⊙ ☰
5	ANPR	16	ce27- 6e9a- ae68- f9e0	alison 192.168.69.19	2038/04/10 00:00:00	Working	⊙ ☰

Buttons at the bottom: Export Server ID, Export License, Overview, **Activate License**

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

(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

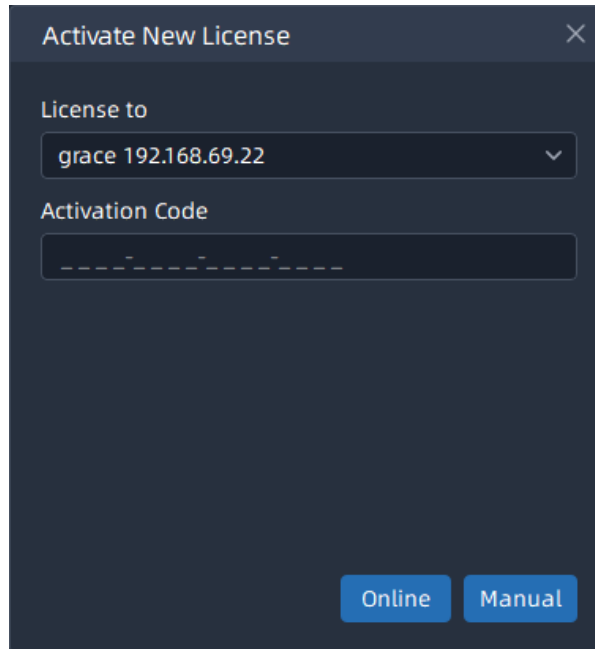
Activation Code
_ _ _ _ _

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:



The screenshot shows a dark-themed dialog box titled "Activate New License" with a close button (X) in the top right corner. Inside the dialog, there is a "License to" label above a dropdown menu that currently displays "grace 192.168.69.22". Below this is an "Activation Code" label above a text input field containing a dashed line pattern. At the bottom right of the dialog, there are two blue buttons labeled "Online" and "Manual".

Step2: Input Activation Code and click **Online** button to verify your activation code;

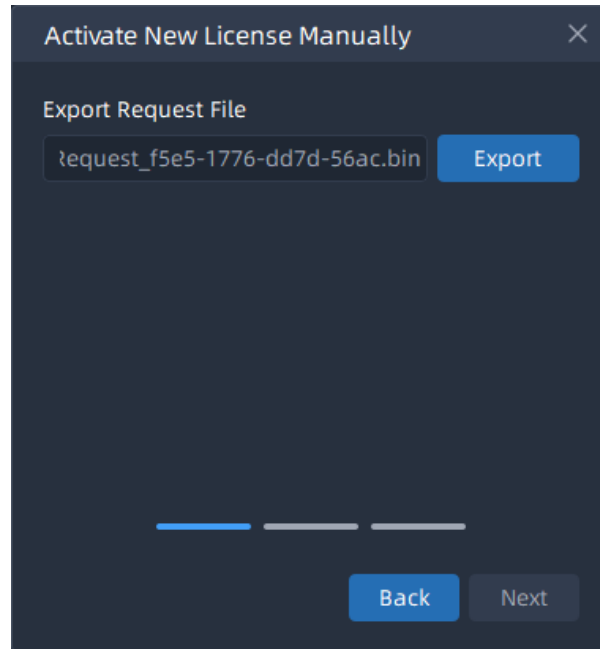
Step3: After verifying your activation code successfully, the license will be added to the License Activation list and displayed working status.

(3) Manual Activation

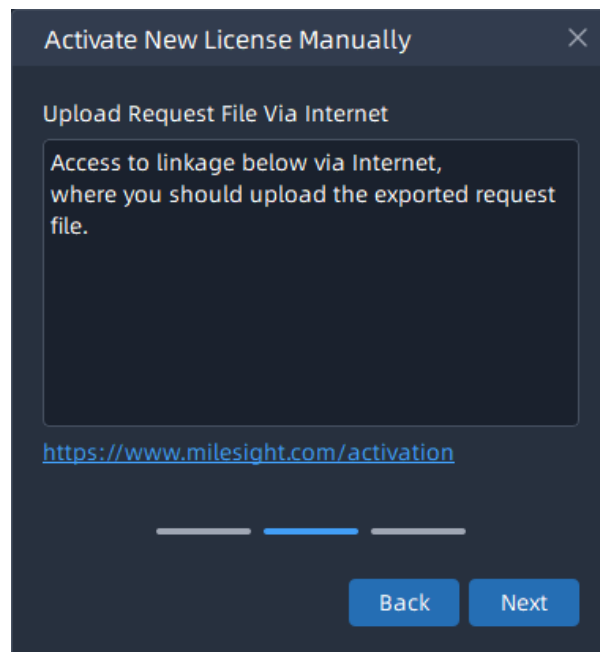
If neither target server nor client computer is not connected to the Internet, then licenses can be activated offline. The manual activation steps can be referred to as below:

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

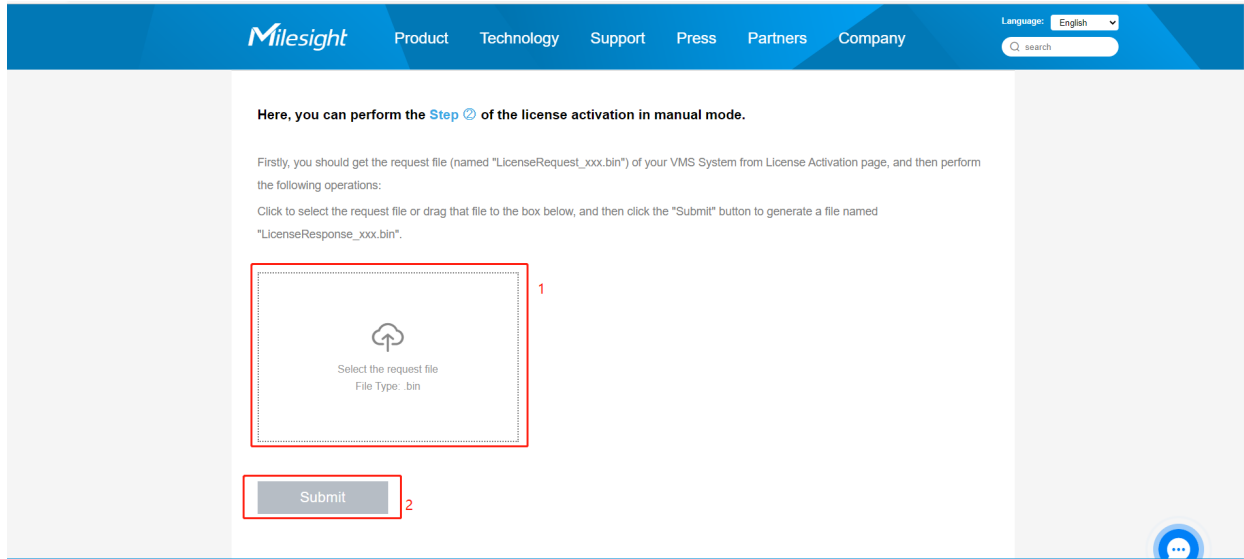
Step2: Input Activation Code and click **Manual** button, then a window pop up as below, you can activate the license manually according to the current reminded steps;



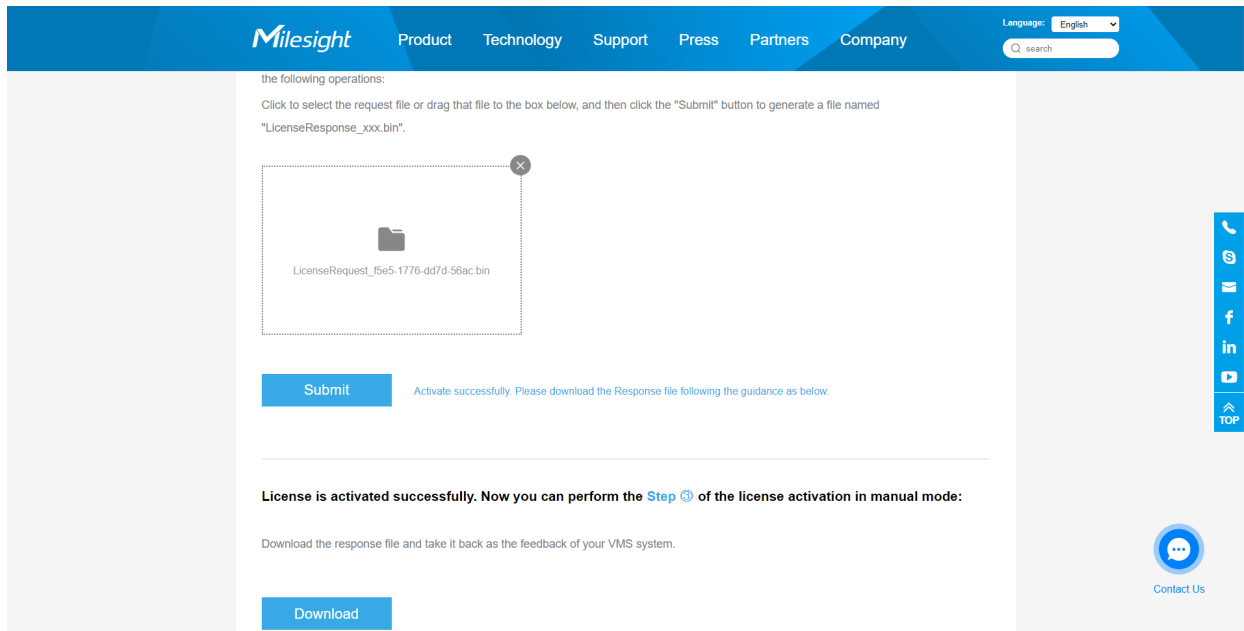
Step3: Click **Export** button to export the LicenseRequest.bin file and save to your local storage path or flash memory, then click **Next** button. The window will change as below:



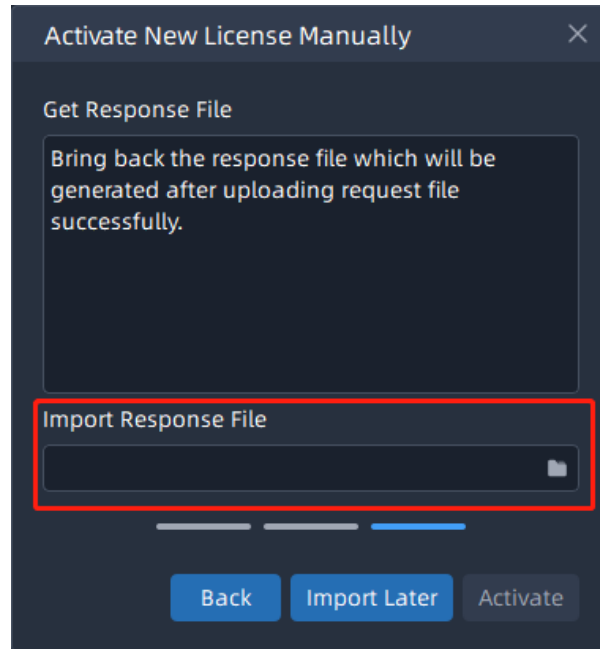
Step4: Copy the address to another online server URL search box and the Milesight License Activation website will show as below. You can upload the previous exported LicenseRequest_XXXX-XXXX-XXXX.bin here;

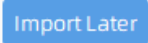


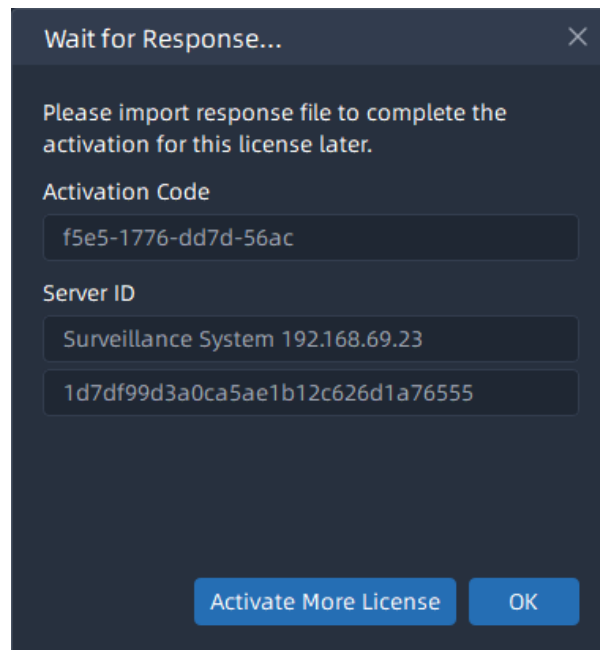
Step5: If the activation code is correct and valid, then the website will show as below. You can click [Download](#) button to download the response file;









Step6: Import the downloaded license response file from activation website, and click [Activate](#) button to activate the license;








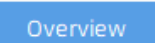
If you want to import the response file later, you can click  button.



Step7:After activating the license successfully, the license will be added to the License Activation list and displayed working status.

No.	Type	License Quantity	Activation Code	Server	Expiry Time	Status	Operation
1	Camera Access	4	Free Trial	Surveillance System 192.16...	2022/08/24 12:00:22	Working	  
2	--	--	f9e5-1776-dd7d-56ac	Surveillance System 192.16...	--	Wait for Response	  

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  button to export the license list in the system.
6. Click  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

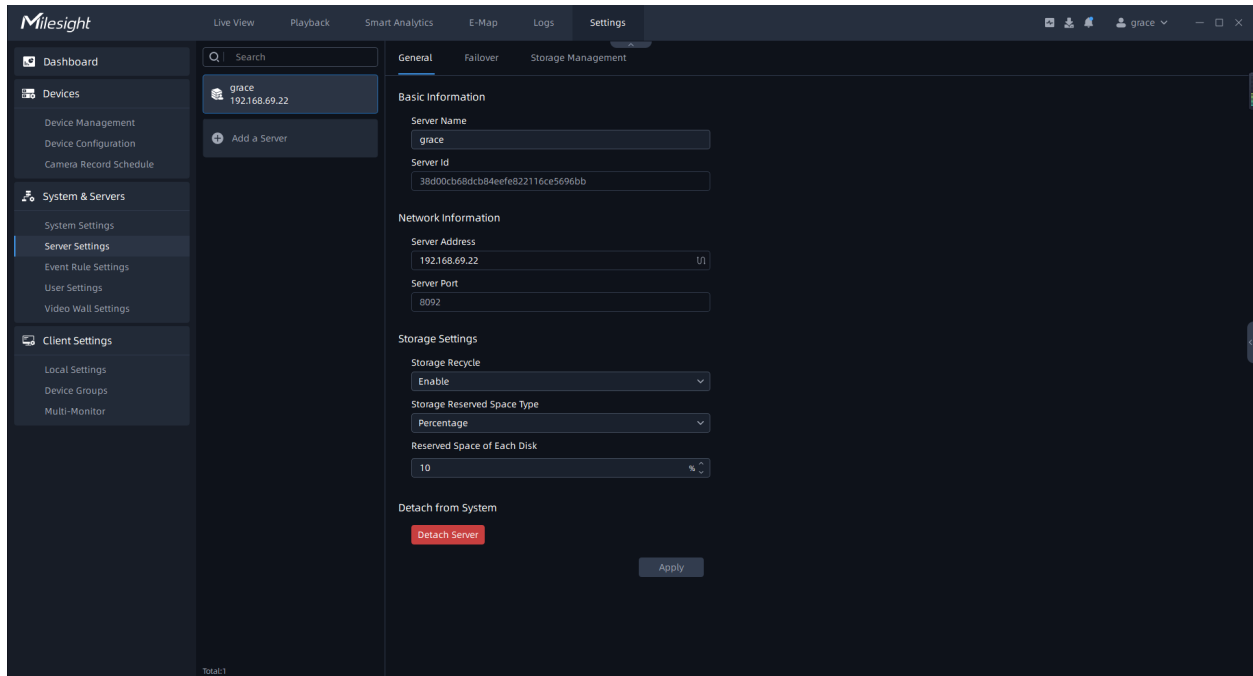
Here you can manage various applications of VMS, including ANPR, Video Analytics, Face+ Platform and Third Party Connect - Access Control. Users can check the application status and enable or disable Face+ Platform and Third Party Connect manually.

Application	Application Version	Release Time	Server Status	Client Status	Operation
ANPR	1.7.0.0-a5	2022/09/30 18:07:37	Running	Running	-
Video Analytics	1.7.0.0-a5	2022/09/30 18:07:37	Running	Running	-
Face+ Platform	1.7.0.0-a5	2022/09/30 18:07:37	Running	Running	<input checked="" type="checkbox"/>
Third Party Connect - Access Control	1.7.0.0-a5	2022/09/30 18:07:37	Running	Running	<input checked="" type="checkbox"/>

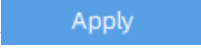
3.3.2 Server Settings

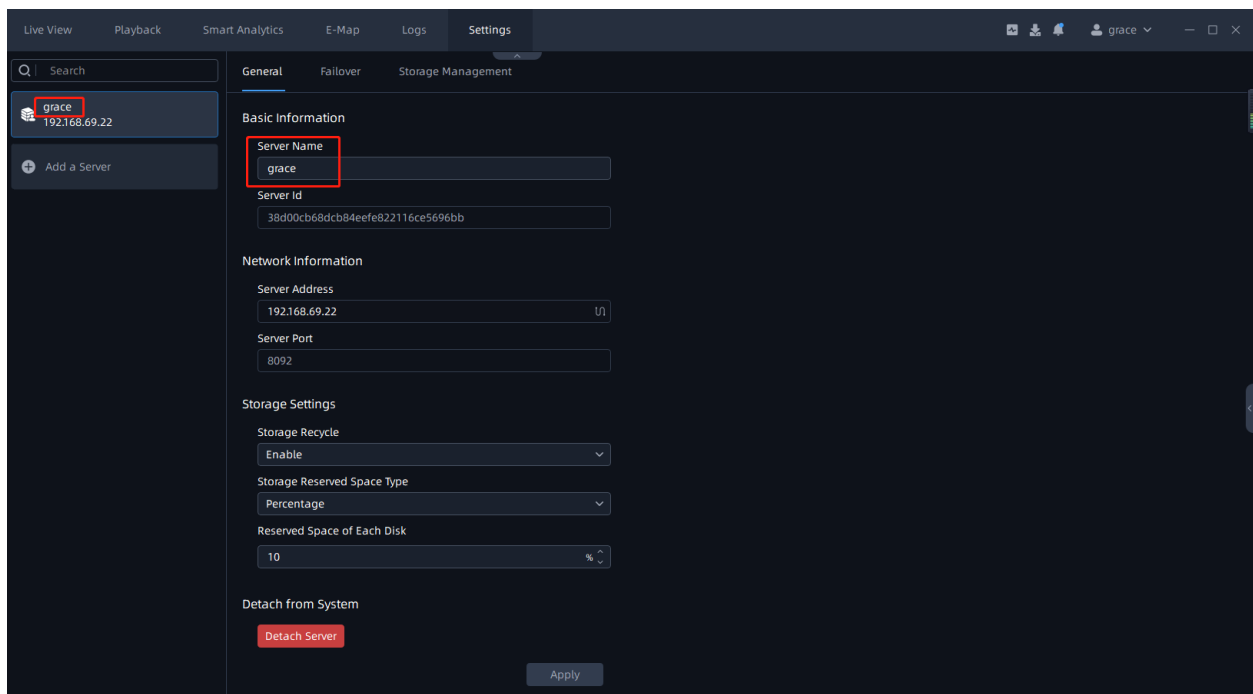
General

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:

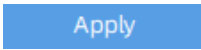


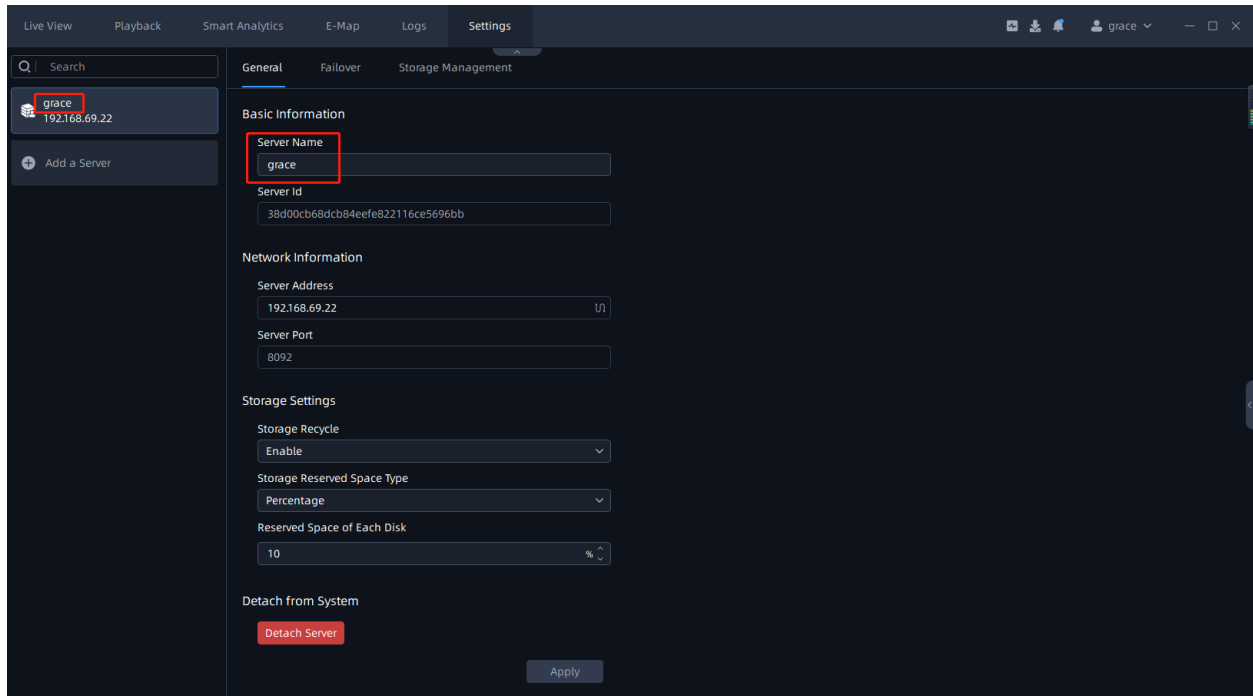
- **Basic Information:**

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




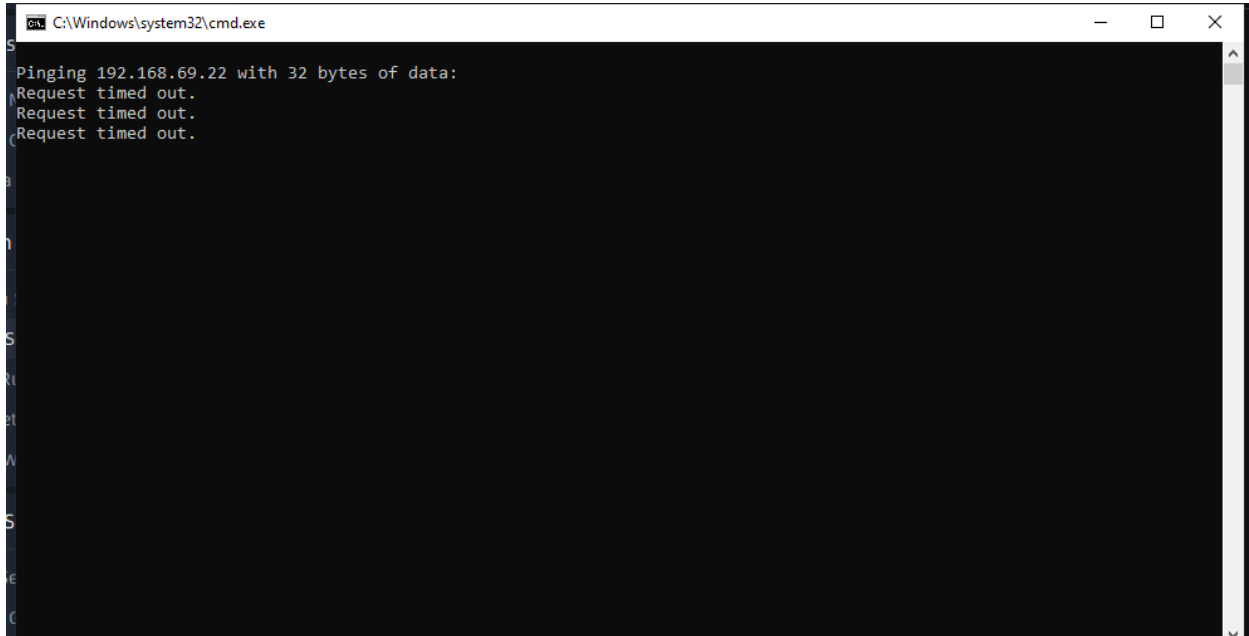
- **Basic Information:**

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



- **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.

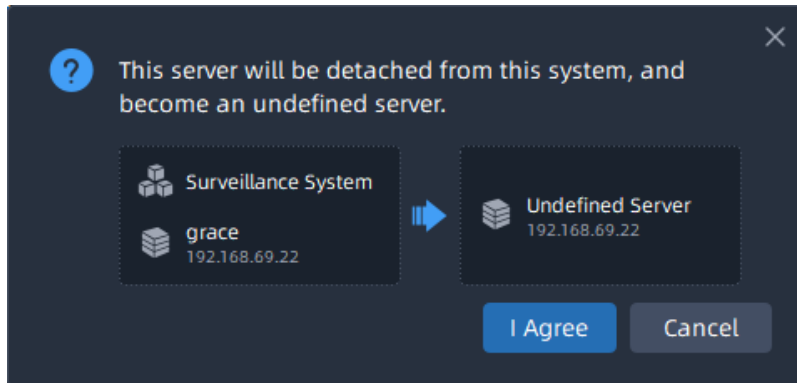


 **Note:** You can choose Percentage or Specific Value to set the threshold value of Storage Recycle.

- **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;

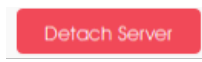


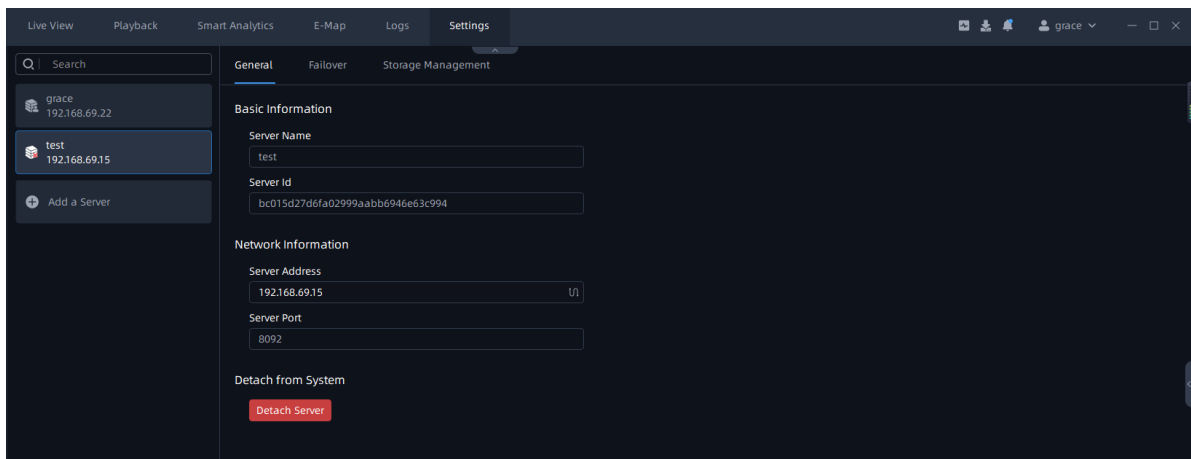
Step2: Choose Remove or Keep cameras of this server from system;

Step3: Wait for 5 seconds and click **I Agree** 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.



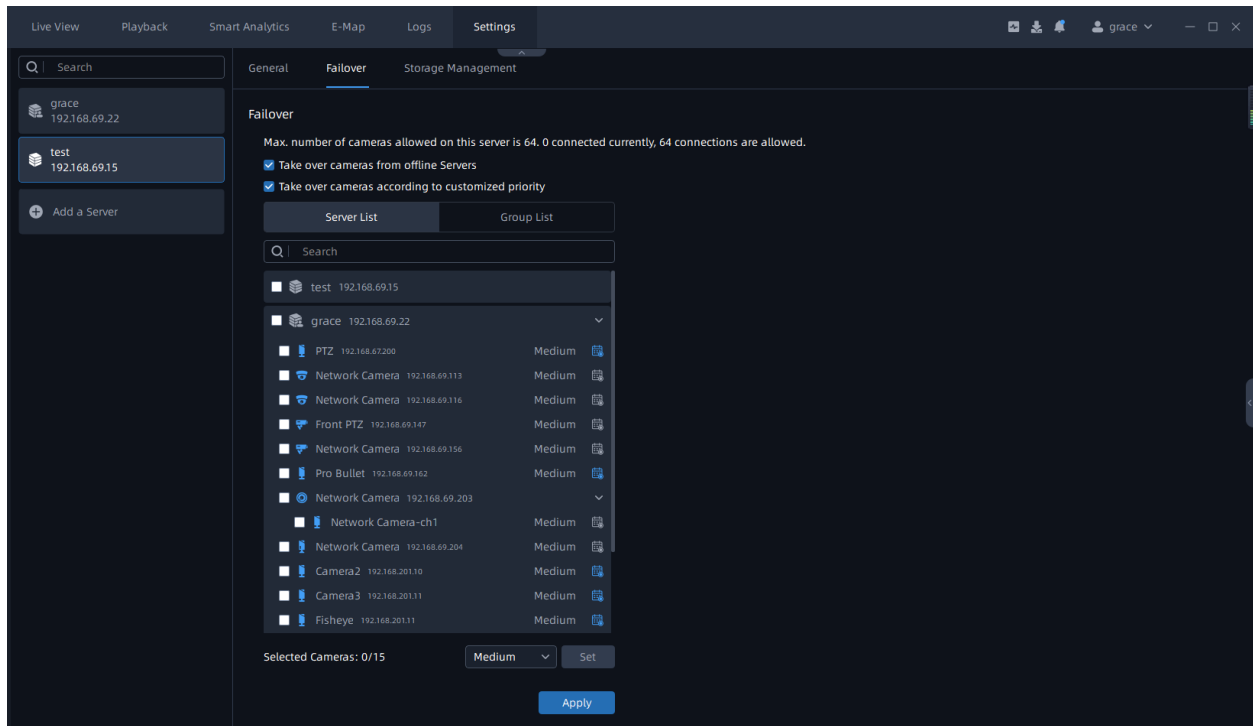
- After the last server is detached, all clients connected to the system will be forced to logout, and pop up a window to inform you “All servers in this system have been removed, please set up system or contact administrator”.

Failover

Here you can set the failover function. Click “Server Settings->Failover” button,

check **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 **Take over cameras according to customized priority**, the server will take over cameras from the offline servers according to the set priority. The page will show as below:

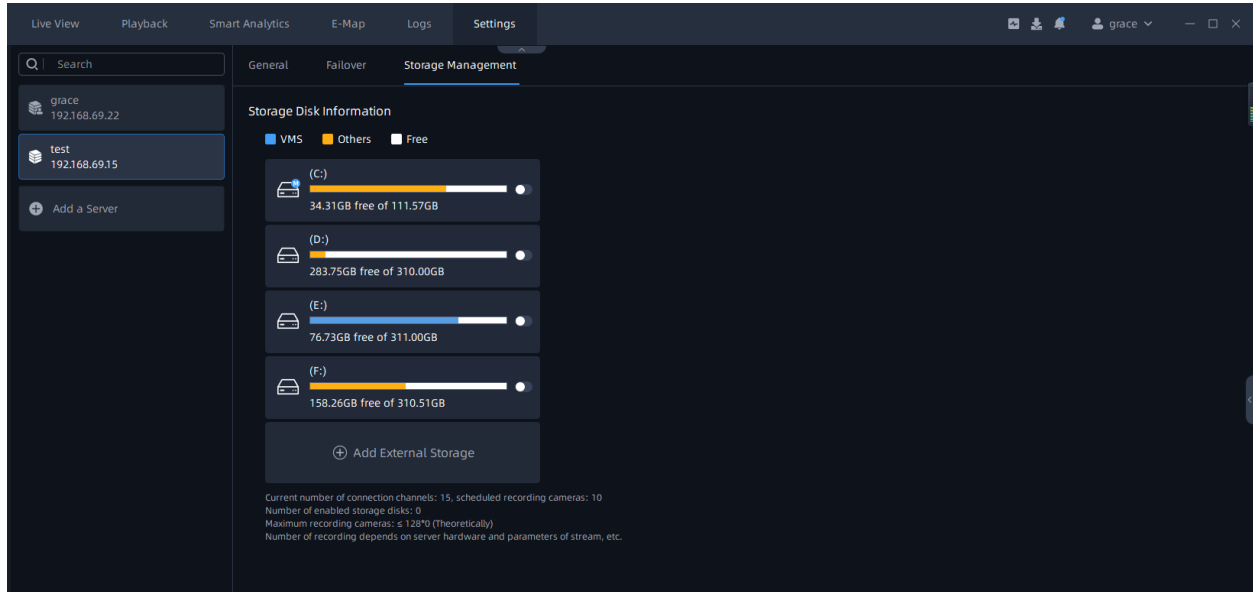


For example, here I set the priority of the cameras in Server 192.168.69.22 as shown in the figure. When the server 192.168.69.22 is offline, other servers in the system will take over the cameras from this server in the order of High, Medium and Low, and the camera whose priority is set to Never will 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.

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.



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:

NFS window:

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

Table 28.

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:

Storage Disk Information

Drive	VMS	Others	Free
(C:)	12.28GB		111.37GB
(D:)	184.78GB		200.00GB
(E:)	118.74GB		144.00GB
(F:)	148.07GB		344.00GB
(G:)	70.88GB		243.50GB
\\DESKTOP-FAB8J02\\alison2	118.74GB		144.00GB

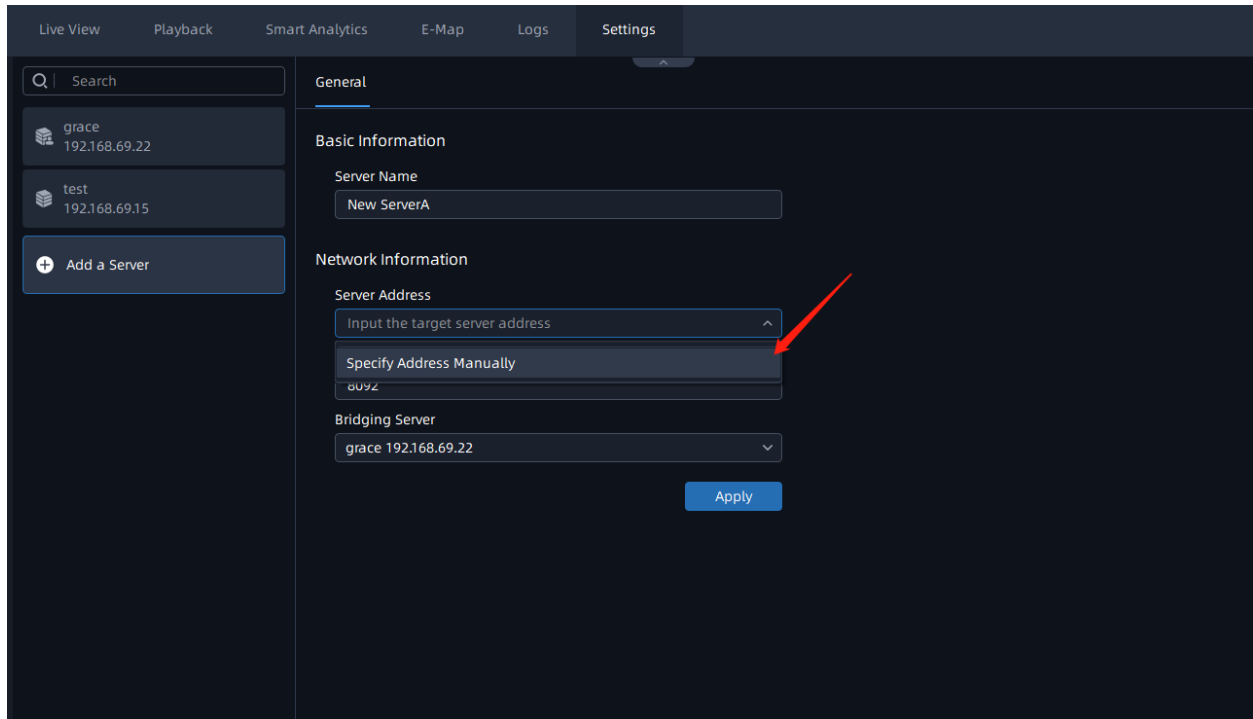
Current number of connection channels: 10, scheduled recording cameras: 0
Number of enabled storage disks: 0
Maximum recording cameras: ≤ 120% (Theoretically)
Number of recording depends on server hardware and parameters of stream, etc.

Note:

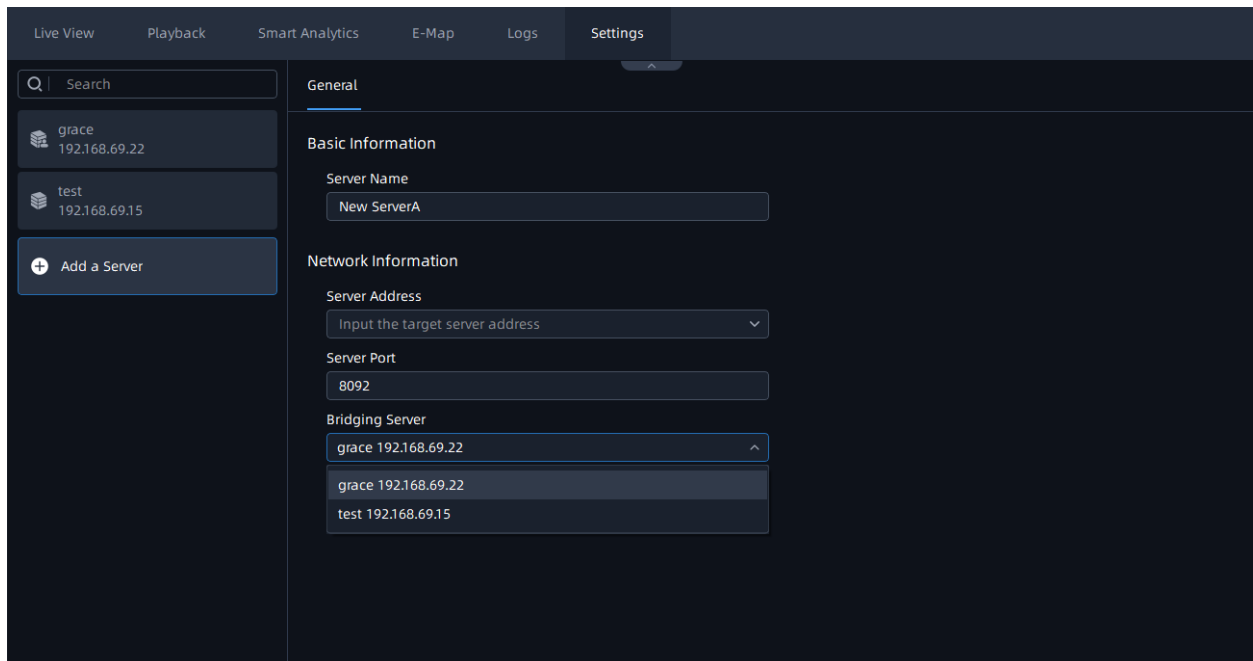
1. Before adding the external storage, please make sure that the network disk is available within the network and properly configured to store the recorded files, etc.
2. The network disks can be deleted, but local storage disk can't be deleted from VMS system.

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.

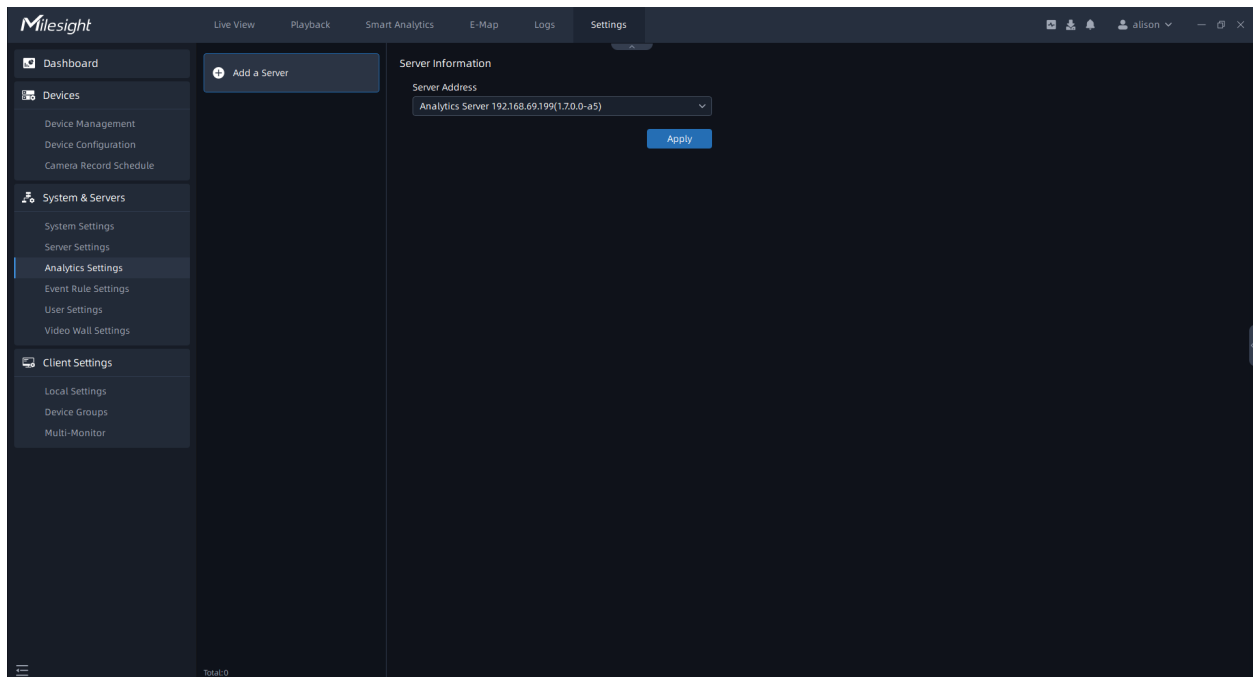



3.3.3 Analytics Settings

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 [License Activation \(page 132\)](#).
- The Video Analytics Server has been installed and running.

Step1: Click  button then select a running Analytics Server as shown below:



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

The screenshot shows the Milesight VMS Settings interface. The sidebar on the left includes sections for Dashboard, Devices, System & Servers, and Client Settings. The 'System & Servers' section is expanded, showing 'System Settings', 'Server Settings', 'Analytics Settings', 'Event Rule Settings', 'User Settings', and 'Video Wall Settings'. The 'Analytics Settings' option is selected. The main content area displays 'Server Information' for a server with IP 192.168.69.199 and a GeForce GTX 1650. Below this is a 'Connected VMS System' table listing several surveillance systems with their names, versions, and master server addresses.

System Name	System Version	Master Server Addr...
Surveillance System...	1.7.0.0-a5	192.168.69.19
Surveillance System	1.6.0.0-r2	192.168.69.13
Surveillance System	1.7.0.0-a5	192.168.69.23
Surveillance System	1.7.0.0-a5	192.168.69.36
Surveillance System	1.6.0.0-r1	192.168.69.22

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.

3.3.3 Event Rule Settings

This VMS supports to customizing event rules including trigger and action settings. The added event rules will be listed in the list, then you can directly check the details of event rules in the list.

The screenshot shows the MileSight Event Rule Settings page. The interface includes a top navigation bar with options like Live View, Playback, Smart Analytics, E-Map, Logs, and Settings. A left sidebar contains a menu with categories: Dashboard, Devices (Device Management, Device Configuration, Camera Record Schedule), System & Servers (System Settings, Server Settings, Event Rule Settings, User Settings, Video Wall Settings), and Client Settings (Local Settings, Device Groups, Multi-Monitor). The main content area is titled 'Event Rule Settings' and features three dropdown menus for Trigger (No Selected Trigger), Action (All), and Status (All), along with a Reset button and a search bar. Below these is a table with columns: Trigger, Source of Trigger, Action, Target of Action, Action Interval, Description of Rule, Status, and Edit. The table is currently empty, displaying 'No data'. At the bottom, there is a status bar showing 'Selected: 0/0. Enabled Action: 0/0' and a row of buttons: Add, Delete, Copy, Enable, Disable, and Reset to Default.

The steps of adding event rule are shown as below:

Step1: Click  button to add event rule as show below:

Add Rule

Trigger
Front-end Events

Event Type
Motion Detection Start

Source
< Any Camera >

Schedule

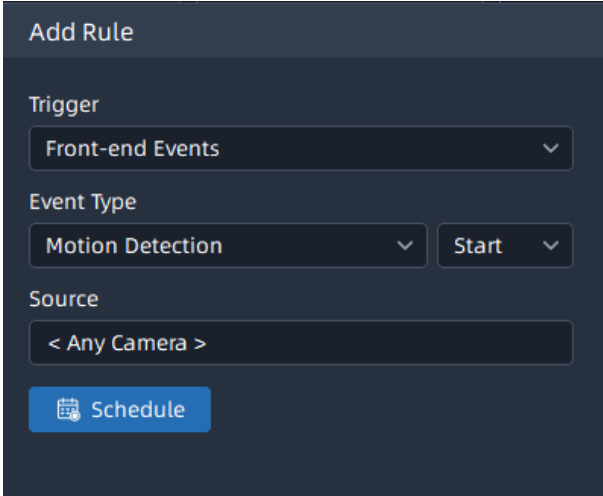

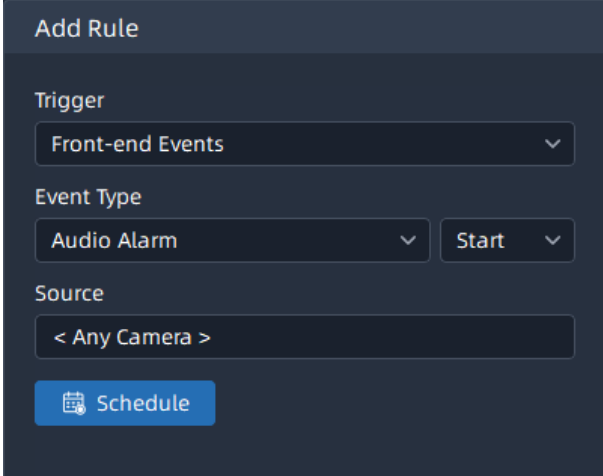

Action List (0/15)

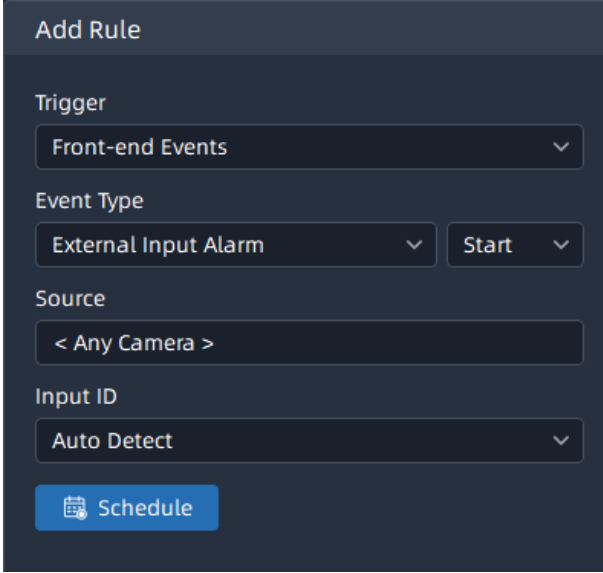

- Do Recording
- Primary Emergency Recording
- Control Camera Output
- Call Camera PTZ Preset
- Show Notification
- Show Text Overlay
- Show Live Notice
- Play Sound
- Send HTTP Request
- Send Email
- Write to Log
- Show on Alarm Screen
- Show on Full Screen
- Maximize Video Window

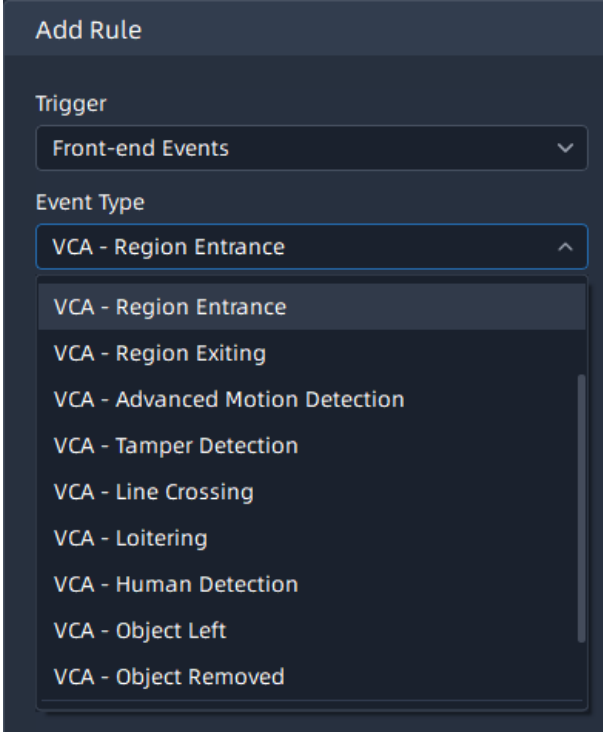

Save Cancel

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.

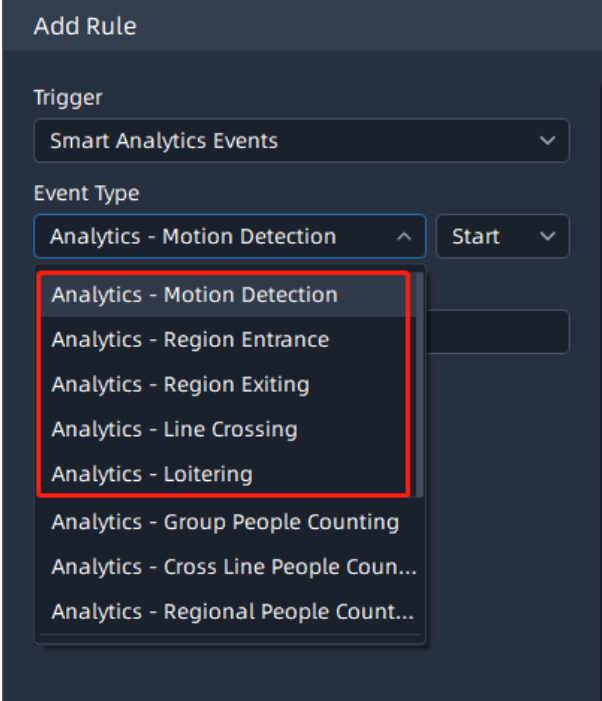
Step2: After setting the event rules, click the “Save” button, then the event rule will be added to the event rule list and take effect.

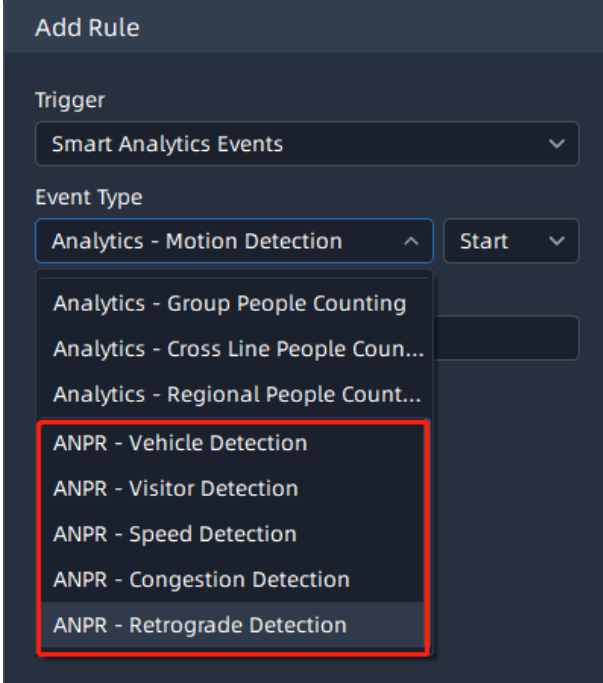

Parameter	Function Introduction
<p>Front-end Event</p>	<p>Front-end Motion Detection: When cameras detect object motion, the event will be triggered. The event trigger has two statuses including Start and Stop, you can set different camera sources and schedules for different states. The page is as below:</p>  <p> Note: Enable the Motion Detection of Milesight camera before using the function.</p>
	<p>Front-end Audio Alarm: The event trigger setting page is the same as Front-end Motion Detection setting page.</p>  <p> Note: Enable the Audio Alarm of Milesight camera before using the function.</p>

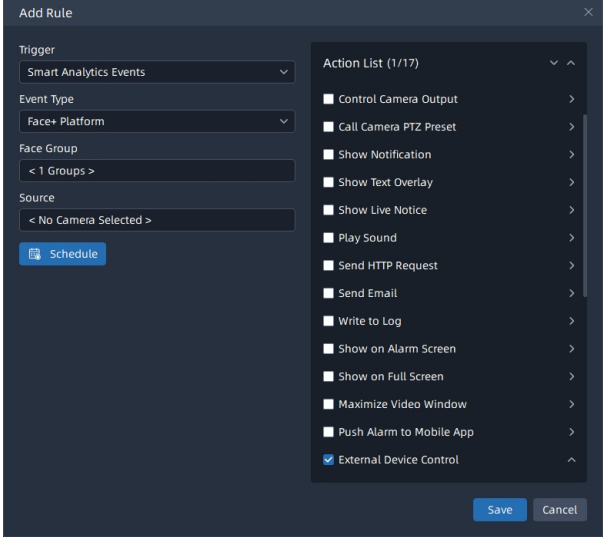
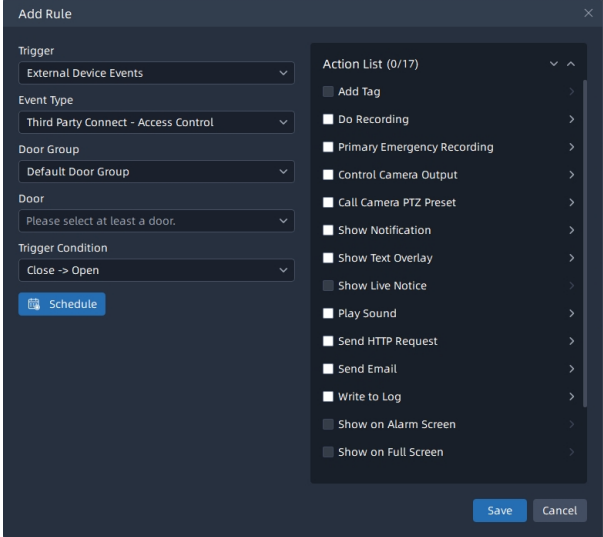
Parameter	Function Introduction
	<p>Front-end External Input Alarm: The event trigger page is as below. If the selected camera has multiple alarm interfaces, then you can choose a type of Input ID. The default Input ID is Auto Detect.</p> <div data-bbox="532 489 1130 1058"></div> <p> Note: Enable the External Input Alarm of Milesight camera before using the function.</p>

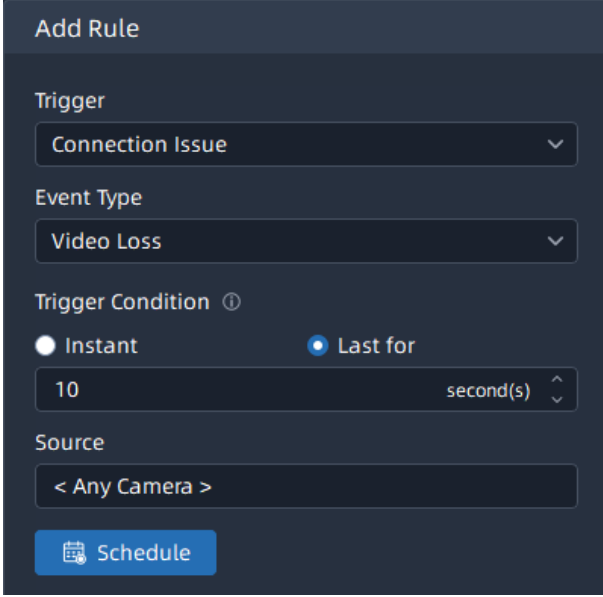
Parameter	Function Introduction
	<p>Front-end VCA: You can set different camera sources, schedules and VCA event types here. The page is as below:</p>  <p> Note: Enable the VCA event of Milesight camera before using the function.</p>

Parameter	Function Introduction
	<p>People Counting: Here you can set trigger rule of two modes, including People Counting and Regional People Counting. When the number of people detected exceeds the threshold you set, the event will be triggered. The page is as below:</p> <div data-bbox="532 457 1029 1075"> <p>Add Rule</p> <p>Trigger Front-end Events</p> <p>Event Type People Counting</p> <p>Source < Any Camera ></p> <p>Thresholds</p> <p><input type="checkbox"/> In 9999</p> <p><input type="checkbox"/> Out 9999</p> <p><input type="checkbox"/> Capacity 9999</p> <p><input type="checkbox"/> Sum 9999</p> <p><input checked="" type="checkbox"/> Only when crossing the threshold.</p> <p>Schedule</p> </div> <div data-bbox="532 1108 1029 1726"> <p>Add Rule</p> <p>Trigger Front-end Events</p> <p>Event Type People Counting - Regional</p> <p>Source < Any Camera ></p> <p>Thresholds</p> <p><input type="checkbox"/> Region 1 ></p> <p><input type="checkbox"/> Region 2 ></p> <p><input type="checkbox"/> Region 3 ></p> <p><input type="checkbox"/> Region 4 ></p> <p><input checked="" type="checkbox"/> Only when crossing the threshold.</p> <p>Schedule</p> </div> <p>Note:</p> <ul style="list-style-type: none"> • Enable the People Counting event of Milesight camera before using the function. • here you can enable the option in the image below, the alarm will only be triggered if the threshold is exceeded, otherwise it will be triggered every time the value changes. <div data-bbox="532 1955 932 2011"> <p><input checked="" type="checkbox"/> Only when crossing the threshold.</p> </div>

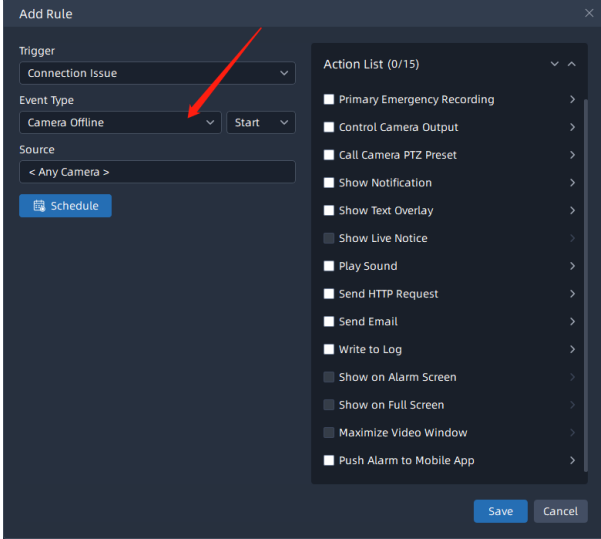
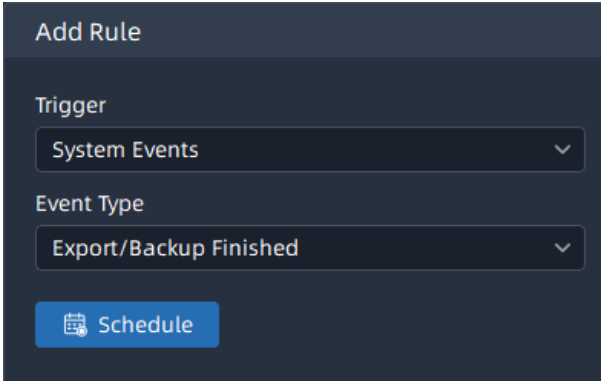
Parameter	Function Introduction
<p>Smart Analytics Events</p>	<p>Analytics: Here you can set Smart Analytics Events trigger rule of five modes, including Motion Detection, Region Entrance, Region Exiting, Line Crossing and Loitering. You can set different camera sources and schedules here. The page is as below:</p> 

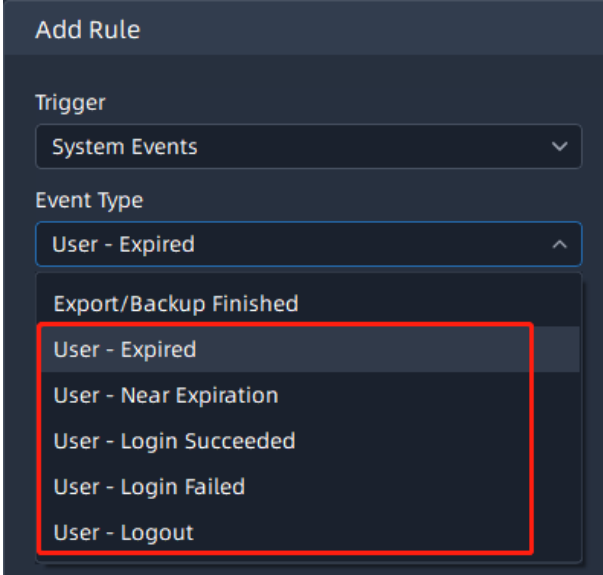
Parameter	Function Introduction
	<p>ANPR: Here you can set ANPR trigger rule of five modes, including Vehicle Detection, Visitor Detection, Speed Detection, Congestion Detection and Retrograde Detection. The VMS system will trigger alarm actions according to the configuration rules. The page is as below:</p>  <p> Note: The VMS can only receive license plate recognition results from Milesight camera.</p>

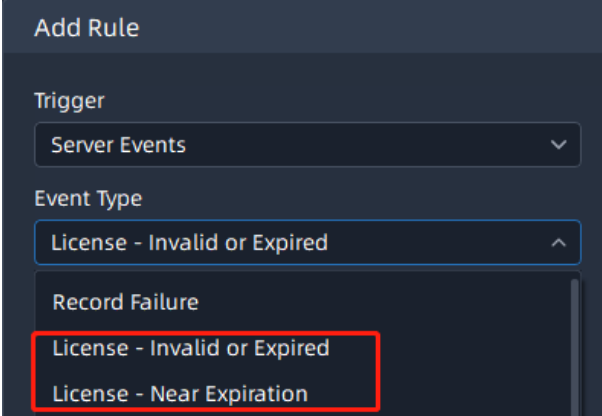
Parameter	Function Introduction
	<p>Face+ Platform: Select the event trigger type as Face+ Platform, select the face group and the corresponding camera, set the schedule, and then set the alarm action.</p>  <p>Note: For more information, please refer to 6.5.3 Face Rule (page 331).</p>
<p>External Device Event</p>	<p>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.</p>  <p>Note: For more information, please refer to 6.6.1 Access Control (page 336).</p>

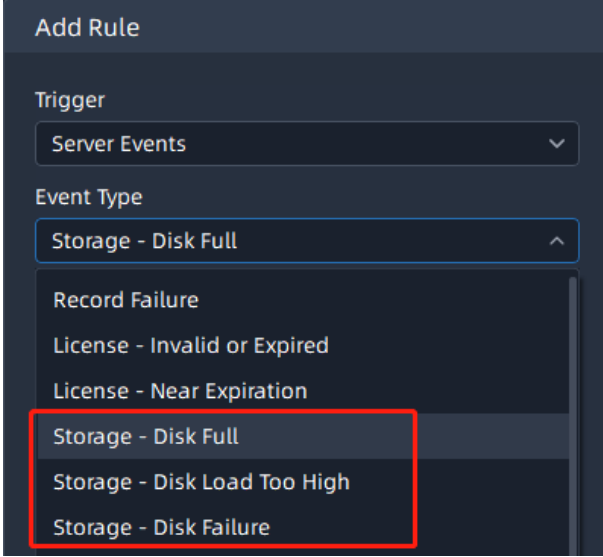
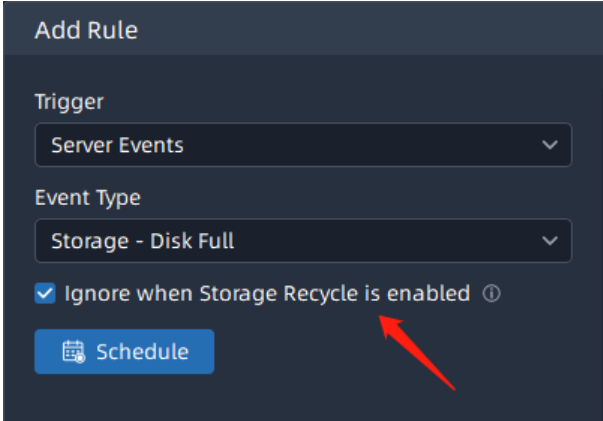
Parameter	Function Introduction
Connection Issue	<p>Video Loss: You can set Video Loss trigger rule for selected cameras. Once the selected cameras are disconnected beyond the set time, the event rule will be triggered.</p>  <p>The screenshot shows a dark-themed configuration window titled "Add Rule". It contains the following elements:</p> <ul style="list-style-type: none">Trigger: A dropdown menu set to "Connection Issue".Event Type: A dropdown menu set to "Video Loss".Trigger Condition: Two radio buttons: "Instant" (unselected) and "Last for" (selected). Below "Last for" is a numeric input field containing "10" and a unit selector dropdown set to "second(s)".Source: A dropdown menu set to "< Any Camera >".Buttons: A blue button with a calendar icon and the text "Schedule" is located at the bottom.

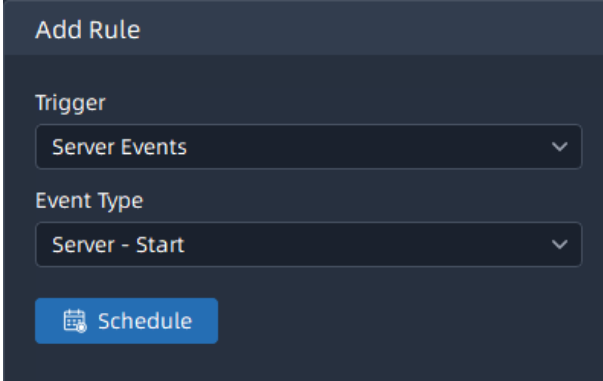
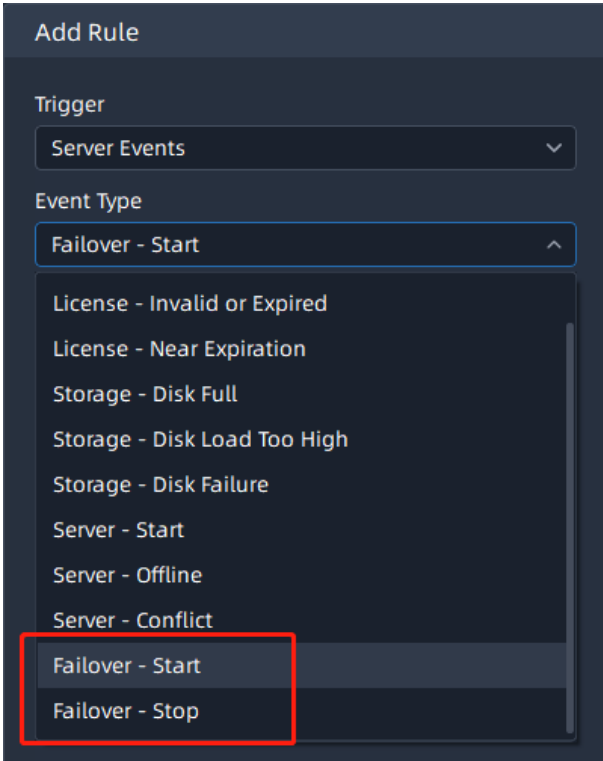
Parameter	Function Introduction
	<p>Video Packet: Here you set the event rule as Video Packet Lost or Video Packet Resume.</p> <div data-bbox="532 428 1029 915"> <p>Add Rule</p> <p>Trigger <input type="text" value="Connection Issue"/></p> <p>Event Type <input type="text" value="Video Packet - Lost"/></p> <p>Trigger Condition ⓘ <input type="radio"/> Instant <input checked="" type="radio"/> Last for <input type="text" value="10"/> second(s)</p> <p>Source <input type="text" value="< Any Camera >"/></p> <p> Schedule</p> </div> <div data-bbox="532 949 1029 1318"> <p>Add Rule</p> <p>Trigger <input type="text" value="Connection Issue"/></p> <p>Event Type <input type="text" value="Video Packet - Resumed"/></p> <p>Source <input type="text" value="< Any Camera >"/></p> <p> Schedule</p> </div> <p>The Video Packet Lost event will be triggered if the VMS system detects the video packet is lost for more than the set time.</p> <p>The Video Packet Resumed event will be triggered if the VMS system detects the video packet is resumed in the last 1 minute.</p>


Parameter	Function Introduction
	<p>Connection Issue: It will trigger an alarm when the camera is offline or online.</p> 
<p>System Events</p>	<p>Export/Backup Finished:After setting the event rule, the event is triggered when the VMS system finishes data backup or export, like recording video export, system and server configuration export, etc. The page is as below:</p> 

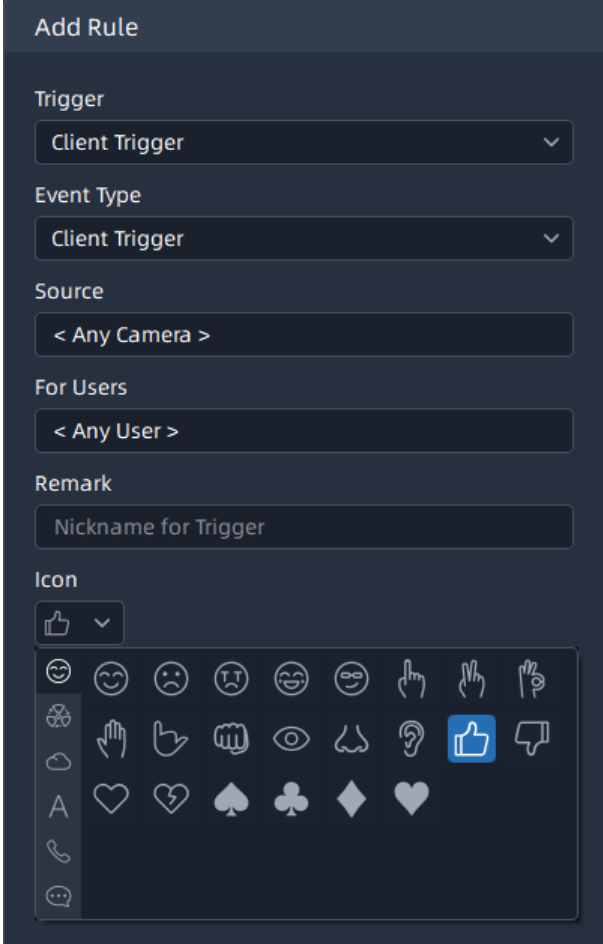
Parameter	Function Introduction
	<p>User Expiration: Here You can set five types of User trigger rule, including Expired, Near Expiration, Login Succeeded, Login Failed and logout. The page is as below:</p> 
<p>Server Events</p>	<p>Record Failure: You can set a schedule for the selected cameras, if the selected cameras record failed, then the event will be triggered.</p> 

Parameter	Function Introduction
	<p>License Issue: 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.</p> 

Parameter	Function Introduction
	<p>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.</p>  <p>Note: In the settings of the Disk Full event, the user can choose to mute the alarm when the storage recycle is enabled.</p> 

Parameter	Function Introduction
	<p>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:</p>  <p>The screenshot shows the 'Add Rule' interface. Under 'Trigger', 'Server Events' is selected. Under 'Event Type', 'Server - Start' is selected. A 'Schedule' button is visible at the bottom.</p> <p>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.</p>  <p>The screenshot shows the 'Add Rule' interface. Under 'Trigger', 'Server Events' is selected. Under 'Event Type', 'Failover - Start' is selected. A list of other event types is shown below, including 'License - Invalid or Expired', 'License - Near Expiration', 'Storage - Disk Full', 'Storage - Disk Load Too High', 'Storage - Disk Failure', 'Server - Start', 'Server - Offline', and 'Server - Conflict'. The 'Failover - Start' and 'Failover - Stop' options are highlighted with a red box.</p>

Parameter	Function Introduction
<p>HTTP Event</p>	<p>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:</p> <div data-bbox="532 485 1130 1136" style="border: 1px solid #333; background-color: #2c3e50; color: white; padding: 10px; margin: 10px 0;"> <p style="margin: 0;">Add Rule</p> <p style="margin: 5px 0 0 0;">Trigger</p> <div style="border: 1px solid #333; background-color: #34495e; padding: 2px; margin: 2px 0; display: flex; justify-content: space-between; align-items: center;"> HTTP Event ▼ </div> <p style="margin: 5px 0 0 0;">Event Type</p> <div style="border: 1px solid #333; background-color: #34495e; padding: 2px; margin: 2px 0; display: flex; justify-content: space-between; align-items: center;"> HTTP Event ▼ </div> <p style="margin: 5px 0 0 0;">Source Contains ⓘ</p> <div style="border: 1px solid #333; background-color: #34495e; padding: 2px; margin: 2px 0; border-radius: 4px;"> Keywords separated by comma </div> <p style="margin: 5px 0 0 0;">Caption Contains ⓘ</p> <div style="border: 1px solid #333; background-color: #34495e; padding: 2px; margin: 2px 0; border-radius: 4px;"> Keywords separated by comma </div> <p style="margin: 5px 0 0 0;">Description Contains ⓘ</p> <div style="border: 1px solid #333; background-color: #34495e; padding: 2px; margin: 2px 0; border-radius: 4px;"> Keywords separated by comma </div> <div style="margin-top: 10px; display: flex; justify-content: center;"> <div style="background-color: #3498db; padding: 5px 15px; border-radius: 4px; display: flex; align-items: center; gap: 5px;"> 📅 Schedule </div> </div> </div> <p style="margin-top: 10px;"> Note: If the field is empty, event will always be triggered.</p>

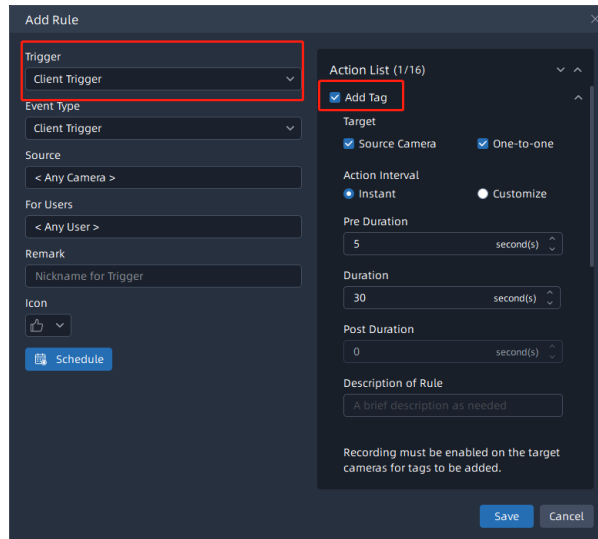
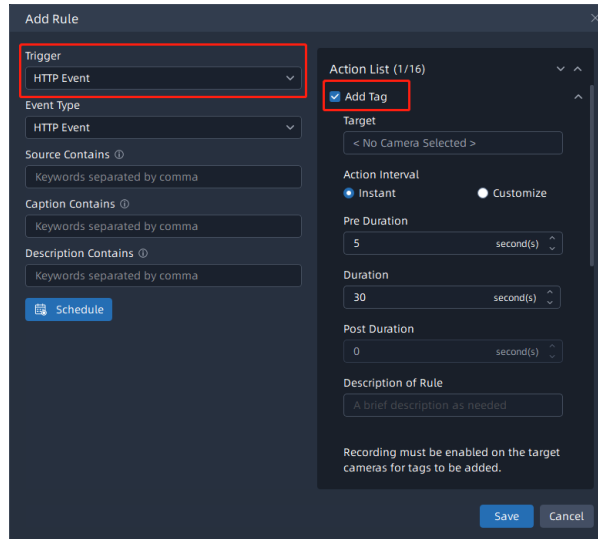
Parameter	Function Introduction
<p>Client Trigger</p>	<p>Client Trigger: Here you can set trigger icon, users who will be available to use this trigger, remark and trigger schedule for selected cameras. After setting the rule, selected users can see the trigger rule icon and remark in live view window of selected cameras. The page is as below:</p> 

The meanings of action settings can be referred to the table below:

Table 30.

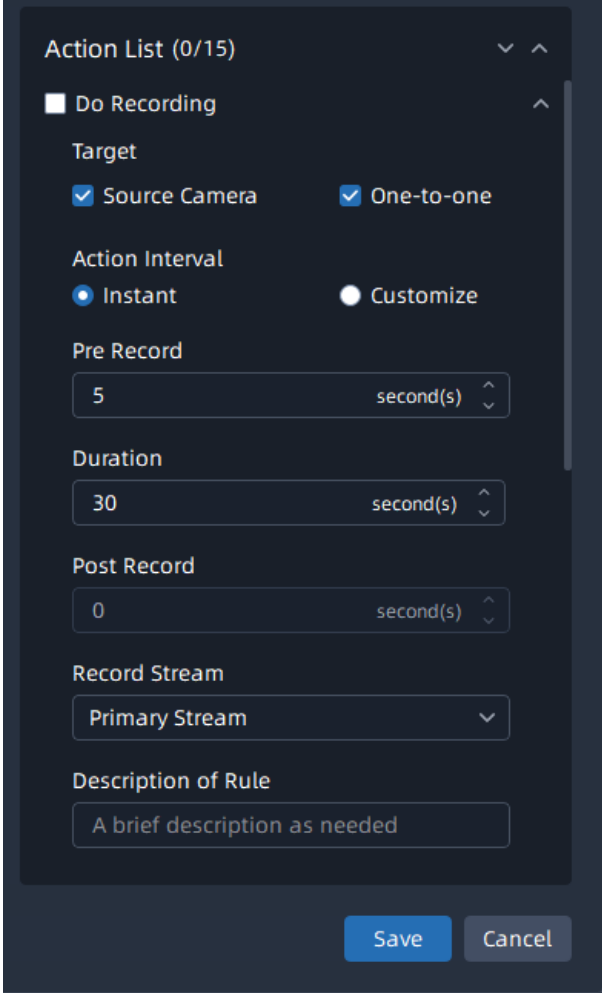
Parameter	Function Introduction
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Action	Add Tag: When the Event Trigger is set to HTTP Event or Client Trigger, it supports triggering "Add Tag" to the recording.
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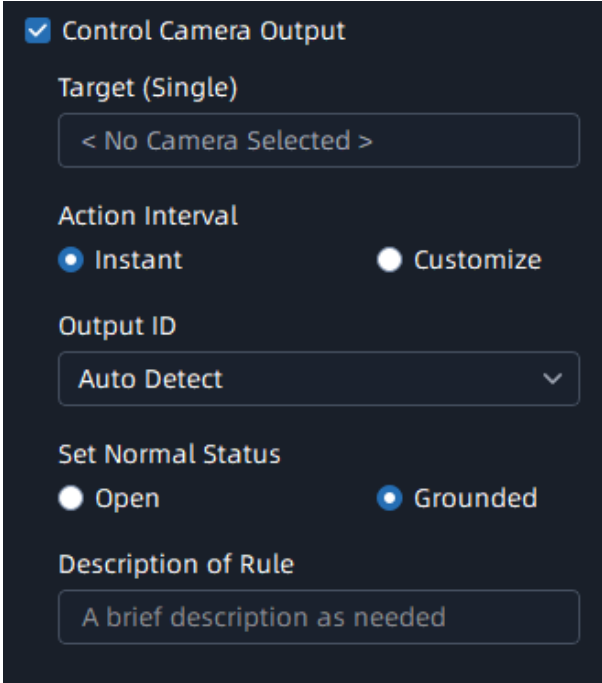



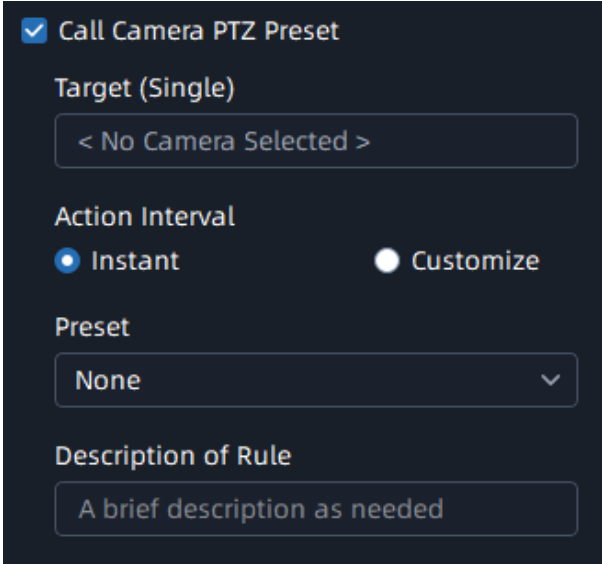

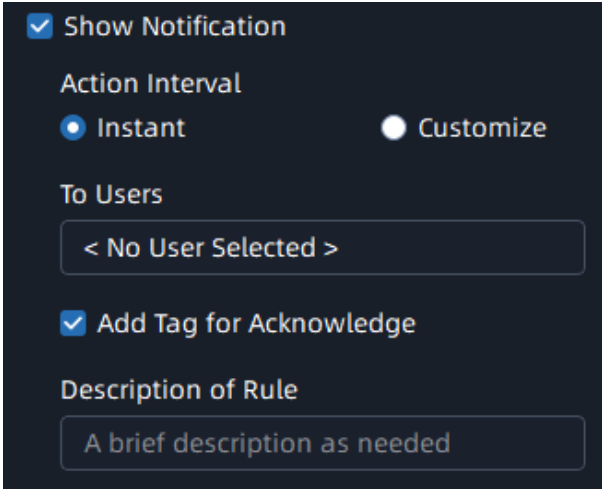

Then users can see the tag on the timeline as shown below.

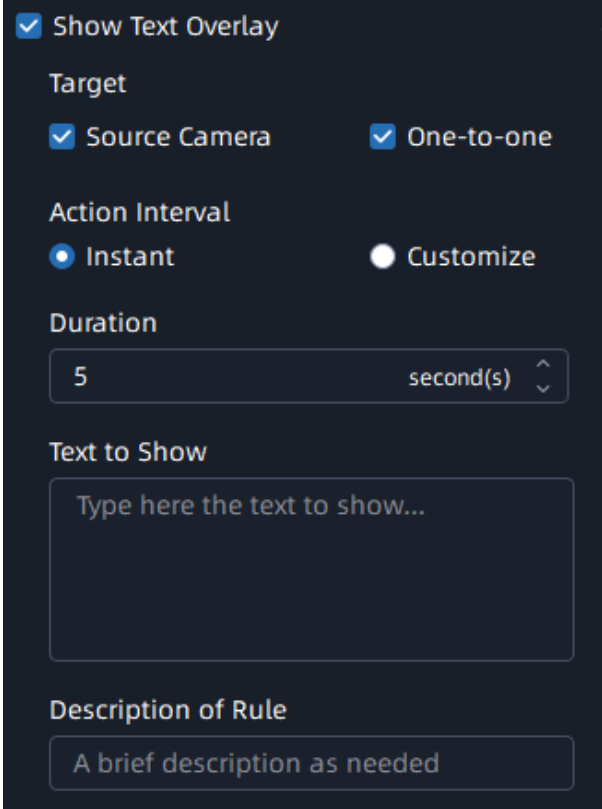


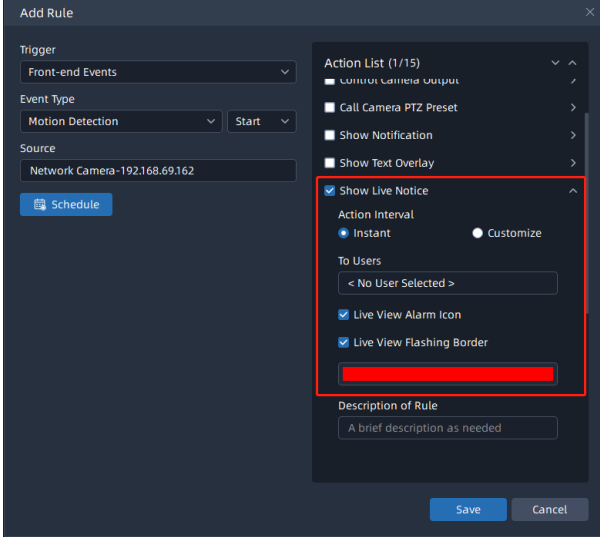
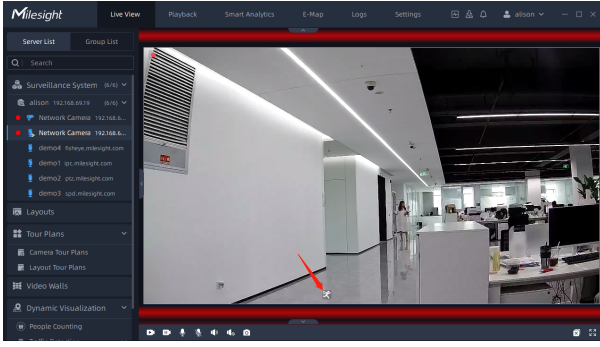
Parameter	Function Introduction
	<p>Do Recording: After setting the action rule, the selected target cameras will record video according to the action setting when the corresponded event is triggered. The page is as below:</p> 

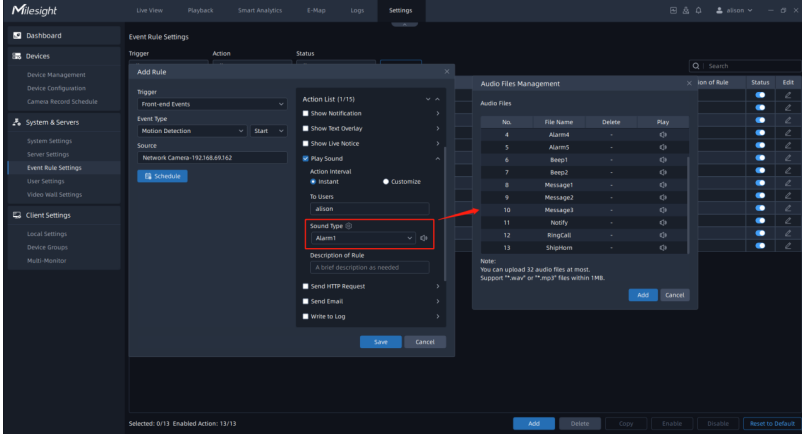
Parameter	Function Introduction
	<p>Primary Emergency Recording: After setting the action rule, the selected target cameras will record primary stream video according to the action setting when the corresponded event is triggered. The page is as below:</p> <div data-bbox="537 457 1135 1150" style="background-color: #2c3e50; color: white; padding: 10px; border: 1px solid #34495e;"> <p><input checked="" type="checkbox"/> Primary Emergency Recording ^</p> <p>Target</p> <p><input checked="" type="checkbox"/> Source Camera <input checked="" type="checkbox"/> One-to-one</p> <p>Action Interval</p> <p><input checked="" type="radio"/> Instant <input type="radio"/> Customize</p> <p>Duration</p> <p>30 second(s) ^</p> <p>Description of Rule</p> <p>A brief description as needed</p> <p>Primary Emergency Recording is based on recording schedule, which can be configured at [Camera Record Schedule].</p> </div> <p> Note: The targeted devices that is recording the primary stream video still continue to record primary stream video when related event is triggered.</p>

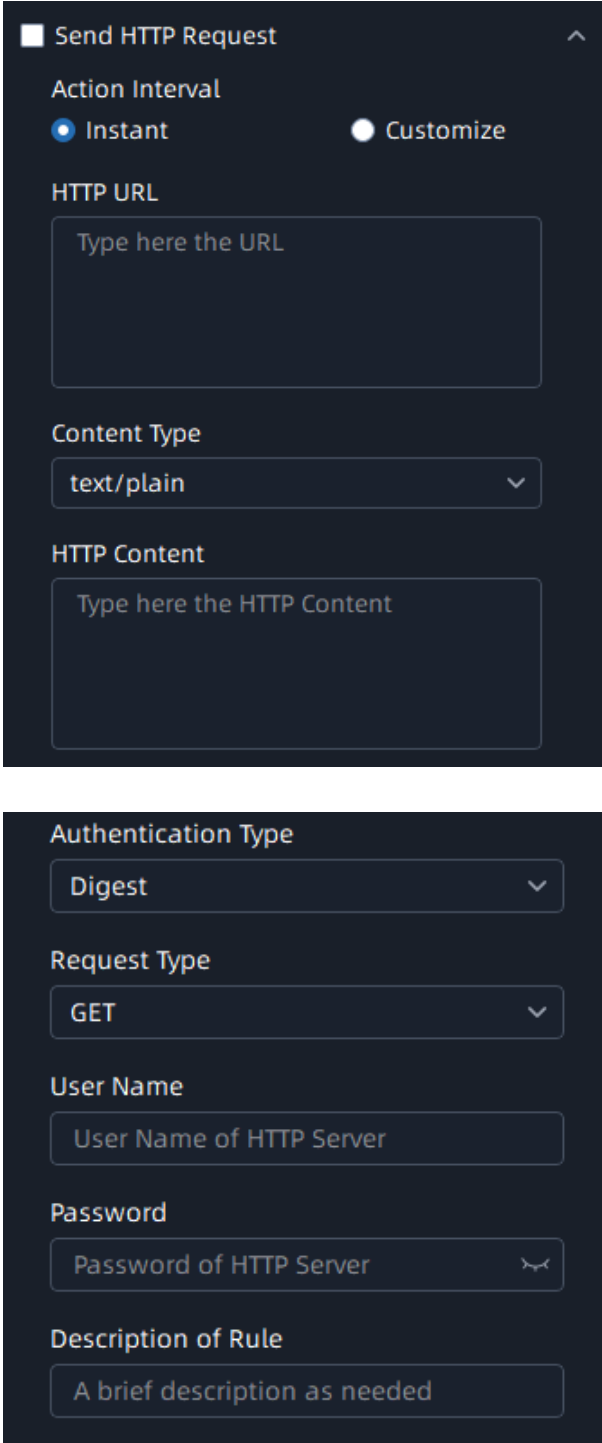
Parameter	Function Introduction
	<p>Control Camera Output: After setting the action rule, the current output status of selected target camera will change to another one status according to the action setting when the corresponded event is triggered. The page is as below:</p>  <p> Note: Only one targeted camera can be selected. If you want more cameras to perform the action, and you can copy the event rule to configure separately.</p>

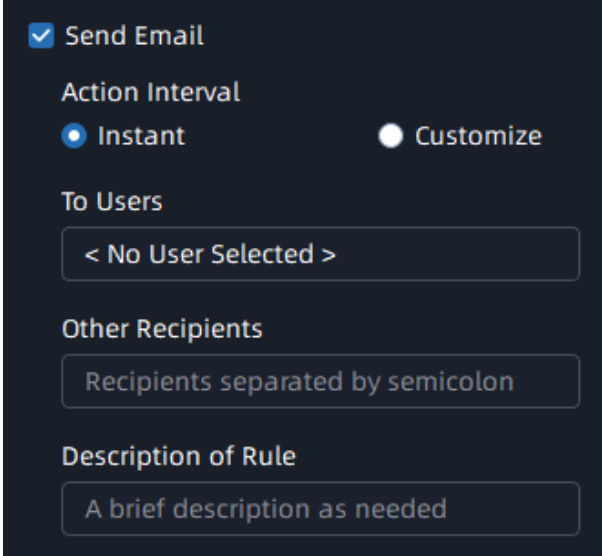

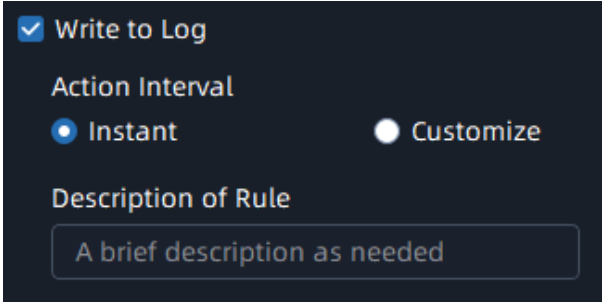
Parameter	Function Introduction
	<p>Call Camera PTZ Preset: After setting the action rule, the selected preset of target camera will be called according to the action setting when the corresponded event is triggered. The page is as below:</p>  <p> Note: The default target cameras only display the devices which can support PTZ function.</p>
	<p>Show Notification: 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:</p>  <p> Note: Selected users must set to receive the notification in the Notification Filter, and then can see the event notification in the notifications panel.</p>


Parameter	Function Introduction
	<p>Show Text Overlay: 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 interval and duration setting when the corresponded event is triggered. The page is as below:</p>  <p><input checked="" type="checkbox"/> Show Text Overlay</p> <p>Target</p> <p><input checked="" type="checkbox"/> Source Camera <input checked="" type="checkbox"/> One-to-one</p> <p>Action Interval</p> <p><input checked="" type="radio"/> Instant <input type="radio"/> Customize</p> <p>Duration</p> <p>5 second(s)</p> <p>Text to Show</p> <p>Type here the text to show...</p> <p>Description of Rule</p> <p>A brief description as needed</p>

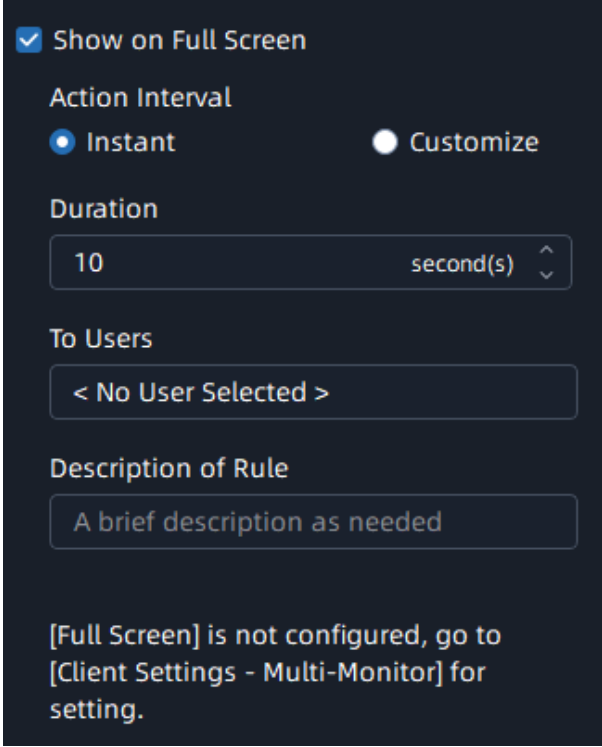

Parameter	Function Introduction
	<p>Show Live Notice: Once the event is triggered, it will flash a frame and show the alarm icon on the Live View interface according to the setting, making monitoring more intuitive and efficient. The page is as below:</p>  

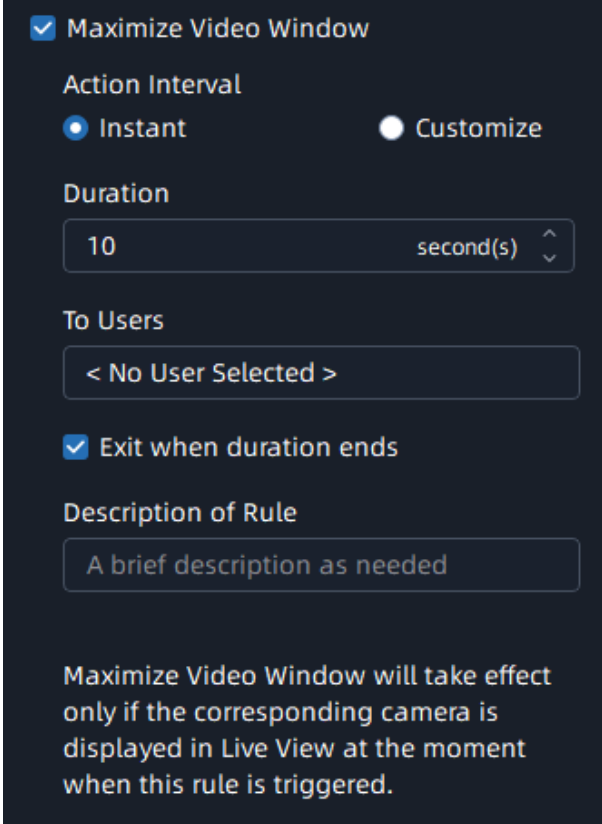
Parameter	Function Introduction																																												
	<p>Play Sound: After setting the action rule, the audio file will play on the client system of selected users when the corresponded event is triggered. Users can choose the built-in audio files in the system or upload the custom audio files manually to meet different needs. The page is as below:</p>  <p>The screenshot shows the 'Miesight' interface with the 'Event Rule Settings' page. The 'Add Rule' dialog is open, and the 'Action List' is expanded to show 'Play Sound'. A red box highlights the 'Sound Type' dropdown menu, which is currently set to 'Alarm1'. An arrow points from this dropdown to the 'Audio Files Management' window, which displays a table of available audio files.</p> <table border="1" data-bbox="1015 556 1226 724"> <thead> <tr> <th>No.</th> <th>File Name</th> <th>Delete</th> <th>Play</th> </tr> </thead> <tbody> <tr><td>4</td><td>Alarm1</td><td>-</td><td>⏮</td></tr> <tr><td>5</td><td>Alarm1</td><td>-</td><td>⏮</td></tr> <tr><td>6</td><td>Beeper1</td><td>-</td><td>⏮</td></tr> <tr><td>7</td><td>Beeper2</td><td>-</td><td>⏮</td></tr> <tr><td>8</td><td>Message1</td><td>-</td><td>⏮</td></tr> <tr><td>9</td><td>Message2</td><td>-</td><td>⏮</td></tr> <tr><td>10</td><td>Message3</td><td>-</td><td>⏮</td></tr> <tr><td>11</td><td>Notify</td><td>-</td><td>⏮</td></tr> <tr><td>12</td><td>RingCall</td><td>-</td><td>⏮</td></tr> <tr><td>13</td><td>Shiphorn</td><td>-</td><td>⏮</td></tr> </tbody> </table> <p>Note: User can upload 32 audio files at most.</p>	No.	File Name	Delete	Play	4	Alarm1	-	⏮	5	Alarm1	-	⏮	6	Beeper1	-	⏮	7	Beeper2	-	⏮	8	Message1	-	⏮	9	Message2	-	⏮	10	Message3	-	⏮	11	Notify	-	⏮	12	RingCall	-	⏮	13	Shiphorn	-	⏮
No.	File Name	Delete	Play																																										
4	Alarm1	-	⏮																																										
5	Alarm1	-	⏮																																										
6	Beeper1	-	⏮																																										
7	Beeper2	-	⏮																																										
8	Message1	-	⏮																																										
9	Message2	-	⏮																																										
10	Message3	-	⏮																																										
11	Notify	-	⏮																																										
12	RingCall	-	⏮																																										
13	Shiphorn	-	⏮																																										

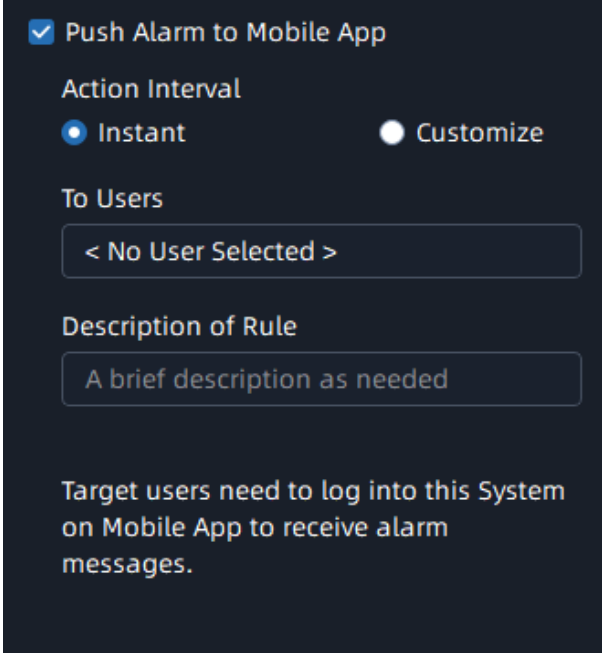

Parameter	Function Introduction
	<p>Send HTTP Request:After setting the action rule, the VMS system will send HTTP Request to the URL filled in the box when the corresponded event is triggered. The page is as below:</p>  <p>Note: The HTTP URL format can be customized,for example,<code>http://{ip}:{port}/api/httpEvent?xxxxxx</code></p>

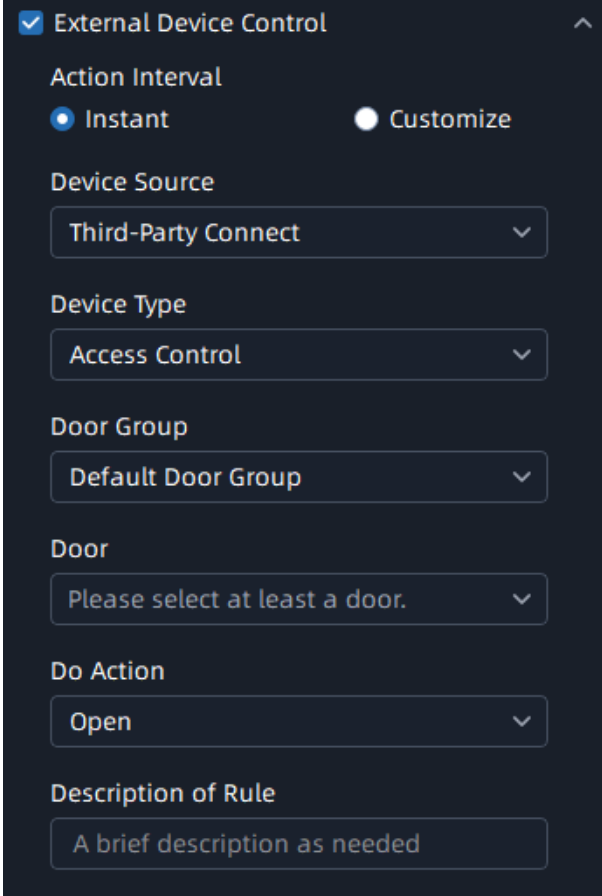
Parameter	Function Introduction
	<p>Send Email: After setting the action rule, the VMS system will send the event emails including trigger, event source and time, etc., to the selected users and other recipients which you set when the corresponded event is triggered. The page is as below:</p>  <p> Note: Email Service needs to be configured correctly.</p>
	<p>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:</p> 

Parameter	Function Introduction
	<p>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:</p> <div data-bbox="537 457 1135 1161" style="background-color: #2c3e50; color: white; padding: 10px;"><p><input checked="" type="checkbox"/> Show on Alarm Screen</p><p>Action Interval</p><p><input checked="" type="radio"/> Instant <input type="radio"/> Customize</p><p>Duration</p><p>10 second(s)</p><p>To Users</p><p>< No User Selected ></p><p>Description of Rule</p><p>A brief description as needed</p><p>[Alarm Screen] is not configured, go to [Client Settings - Multi-Monitor] for setting.</p></div> <p> Note: 'Alarm Screen' need to be configured firstly.</p>

Parameter	Function Introduction
	<p>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:</p>  <p> Note: 'Full Screen' must be configured firstly.</p>

Parameter	Function Introduction
	<p>Maximize Video Window: After the action rule is set, the VMS system will maximize the live view of camera on the current video window while action is triggered. The page is as below:</p>  <p>Note:</p> <ul style="list-style-type: none"> • Maximize Video Window will take effect only if the corresponding camera is displayed in Live View at the moment when the event is triggered. • Only live view of one channel can be maximized to the current video window each time.

Parameter	Function Introduction
	<p>Push Alarm to M-VMS App: After the action rule is set, the VMS system will push alarm message to M-VMS App. The page is as below:</p>  <p> Note: Please make sure the version of M-VMS App is V1.0.0.2 or above.</p>

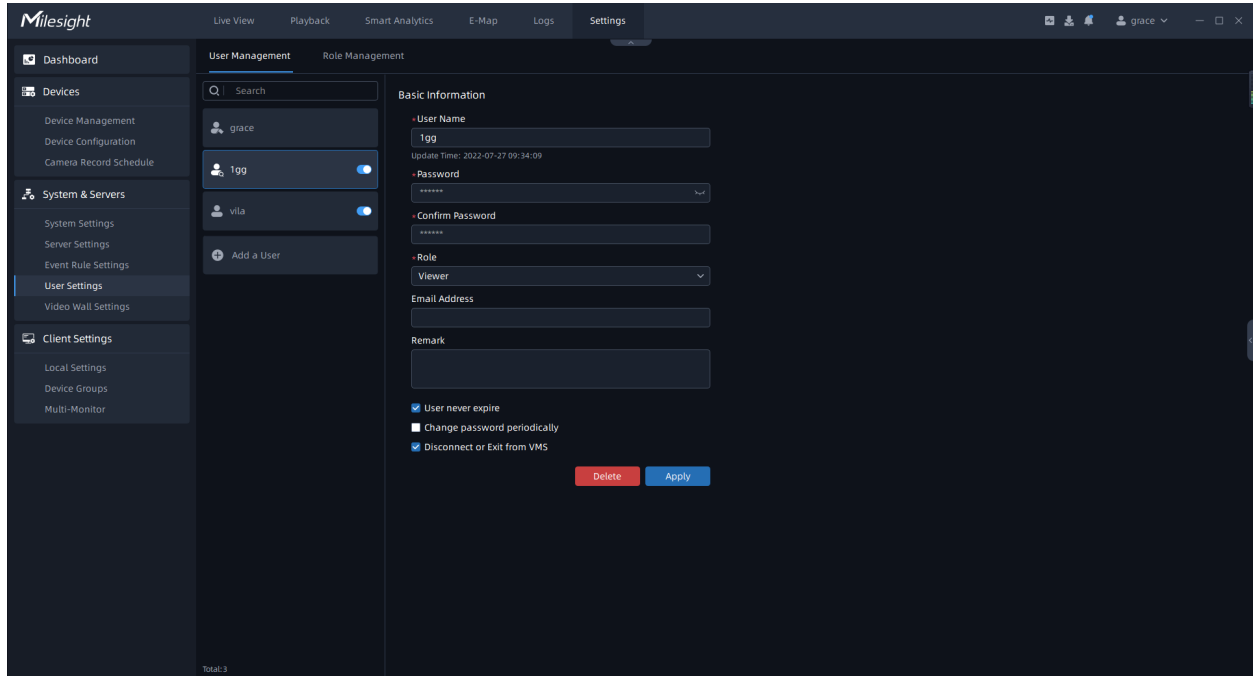
Parameter	Function Introduction
	<p>External Device Control: If you have added an access control device, it supports triggering the door opening or closing according to different event trigger types to achieve access control management.</p> 

3.3.4 User Settings

User Management

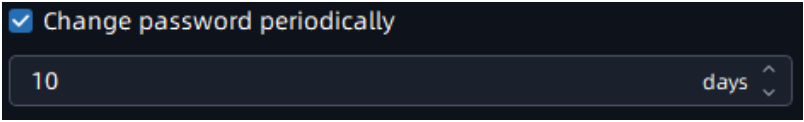
Users are managed in the User Management page.

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. Click the “User Settings->User management” button, the page will show as below:



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

Table 31.

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 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:

Basic Information

*** User Name**

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

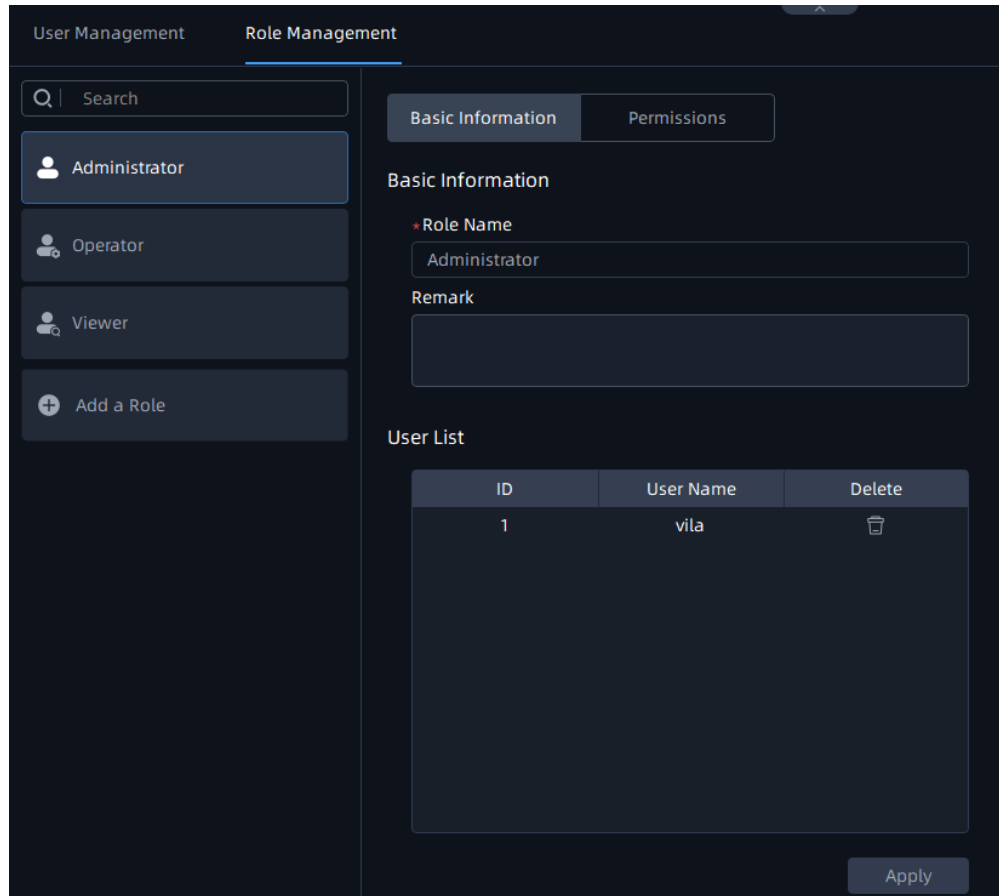
Delete
Apply

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. There are three types of role which can't be deleted by default, including Administrator, Operator and Viewer. Also, you can add or delete customized roles.



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

User List

ID	User Name	Delete
1	vila	

Apply

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.

?
This user will be deleted.
×

👤 1gg - Viewer

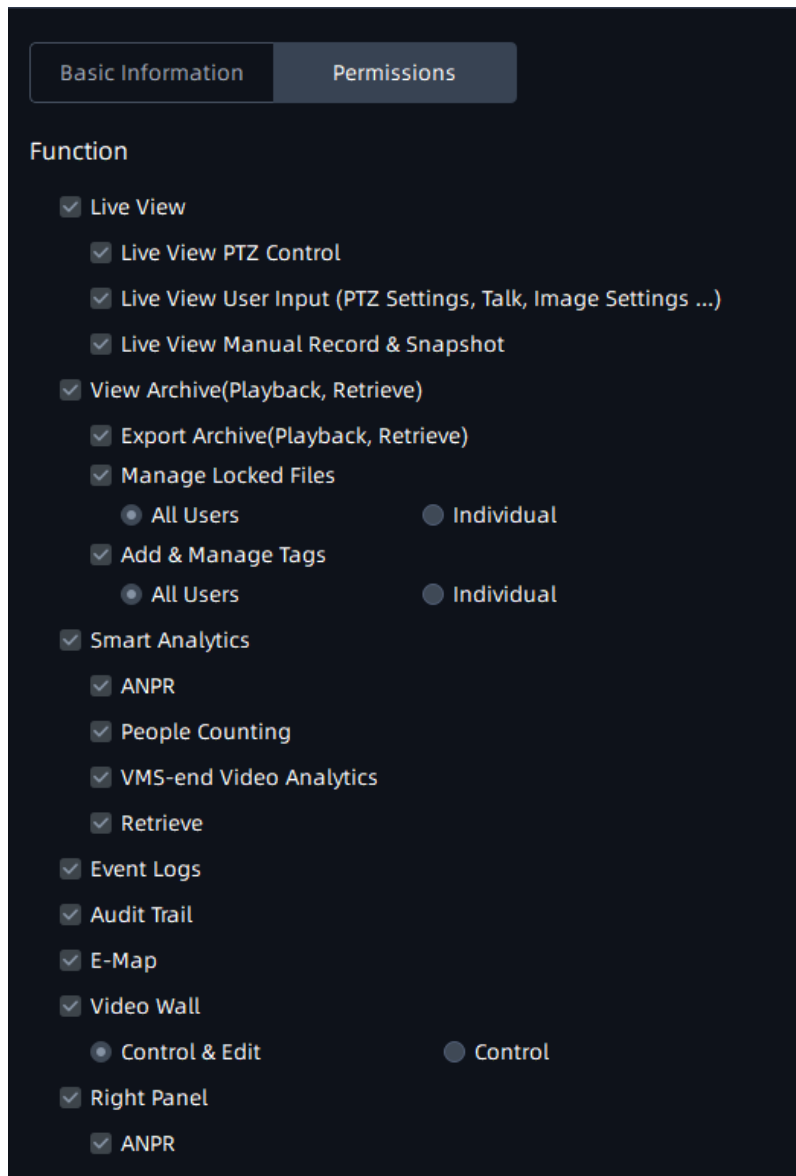
Keep user history data !

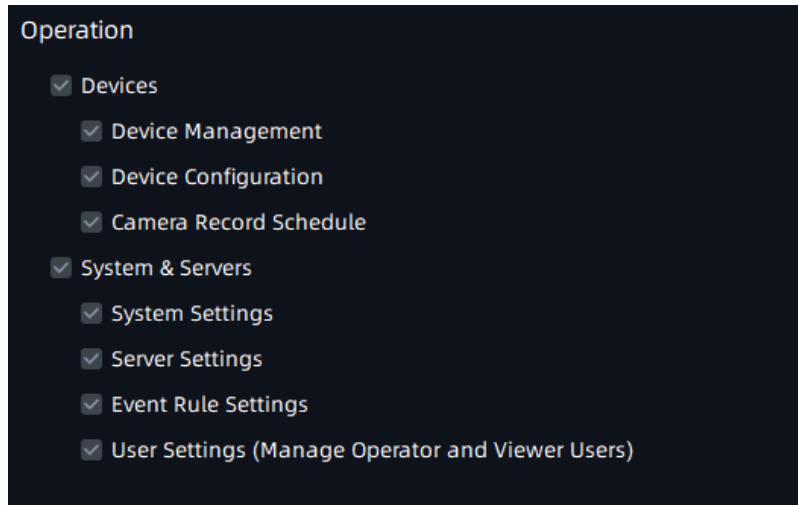
OK
Cancel


Permissions Page

Different roles have different functions and operation permissions, resource access including Camera and Layout.

- Administrator: Own full access to function and operation permissions, resource access including Camera and Layout.





 **Note:** Even if Camera and Layout pages are not displayed, Administrator has full access to camera and layout of VMS system by default.

- Operator: Own part access to function and operation permissions, resource access including Camera and Layout.


Basic Information Permissions

Function

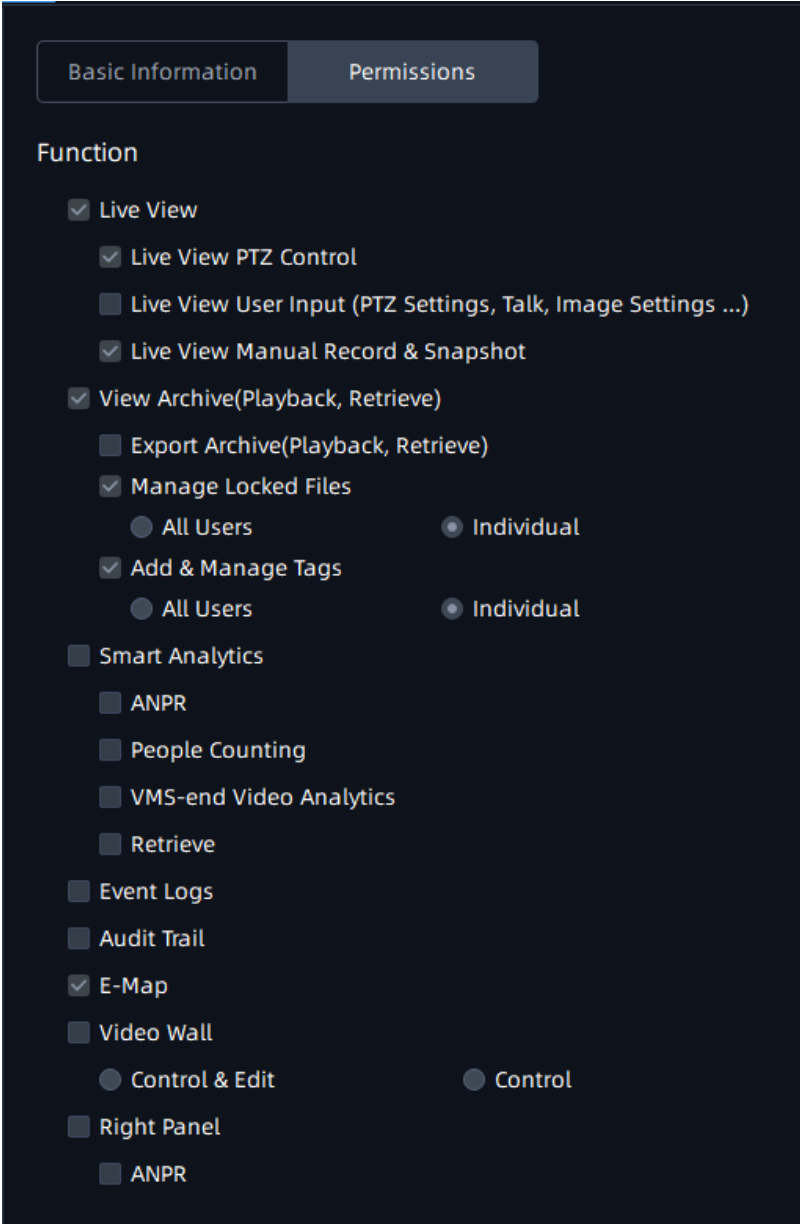
- Live View
 - Live View PTZ Control
 - Live View User Input (PTZ Settings, Talk, Image Settings ...)
 - Live View Manual Record & Snapshot
- View Archive(Playback, Retrieve)
 - Export Archive(Playback, Retrieve)
 - Manage Locked Files
 - All Users
 - Individual
 - Add & Manage Tags
 - All Users
 - Individual
- Smart Analytics
 - ANPR
 - People Counting
 - VMS-end Video Analytics
 - Retrieve
- Event Logs
- Audit Trail
- E-Map
- Video Wall
 - Control & Edit
 - Control
- Right Panel
 - ANPR

Operation

- Devices
 - Device Management
 - Device Configuration
 - Camera Record Schedule
- System & Servers
 - System Settings
 - Server Settings
 - Event Rule Settings
 - User Settings (Manage Operator and Viewer Users)

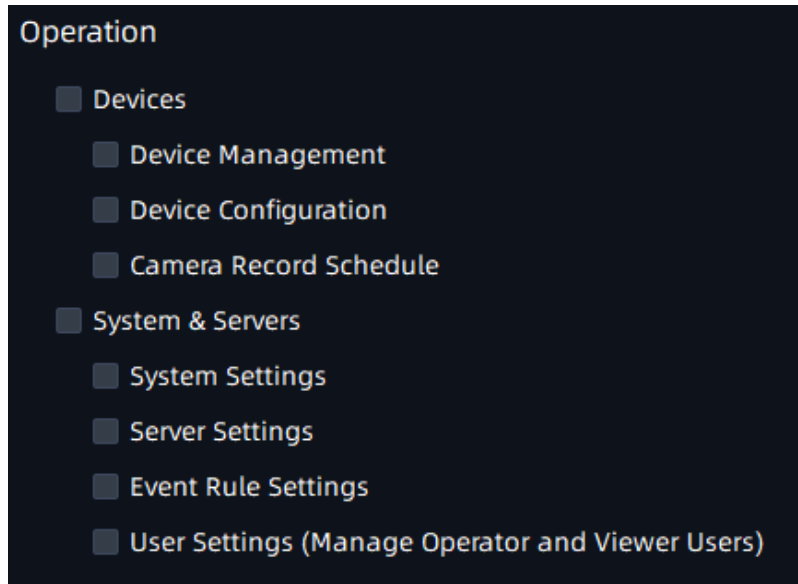
 **Note:** Even if Camera page is not displayed, Operator has full access to camera of VMS system by default.


- **Viewer:** Own part access to function and operation permissions, resource access including Camera and Layout.



The screenshot displays the 'Permissions' tab for a user in the VMS system. The interface is dark-themed. At the top, there are two tabs: 'Basic Information' and 'Permissions'. Below the tabs, the 'Function' section is expanded, showing a list of permissions. Each permission is preceded by a checkbox, and some have radio buttons for user selection.

Function	Checked	User Selection
Live View	<input checked="" type="checkbox"/>	
Live View PTZ Control	<input checked="" type="checkbox"/>	
Live View User Input (PTZ Settings, Talk, Image Settings ...)	<input type="checkbox"/>	
Live View Manual Record & Snapshot	<input checked="" type="checkbox"/>	
View Archive(Playback, Retrieve)	<input checked="" type="checkbox"/>	
Export Archive(Playback, Retrieve)	<input type="checkbox"/>	
Manage Locked Files	<input checked="" type="checkbox"/>	<input type="radio"/> All Users <input checked="" type="radio"/> Individual
Add & Manage Tags	<input checked="" type="checkbox"/>	<input type="radio"/> All Users <input checked="" type="radio"/> Individual
Smart Analytics	<input type="checkbox"/>	
ANPR	<input type="checkbox"/>	
People Counting	<input type="checkbox"/>	
VMS-end Video Analytics	<input type="checkbox"/>	
Retrieve	<input type="checkbox"/>	
Event Logs	<input type="checkbox"/>	
Audit Trail	<input type="checkbox"/>	
E-Map	<input checked="" type="checkbox"/>	
Video Wall	<input type="checkbox"/>	<input type="radio"/> Control & Edit <input checked="" type="radio"/> Control
Right Panel	<input type="checkbox"/>	
ANPR	<input type="checkbox"/>	

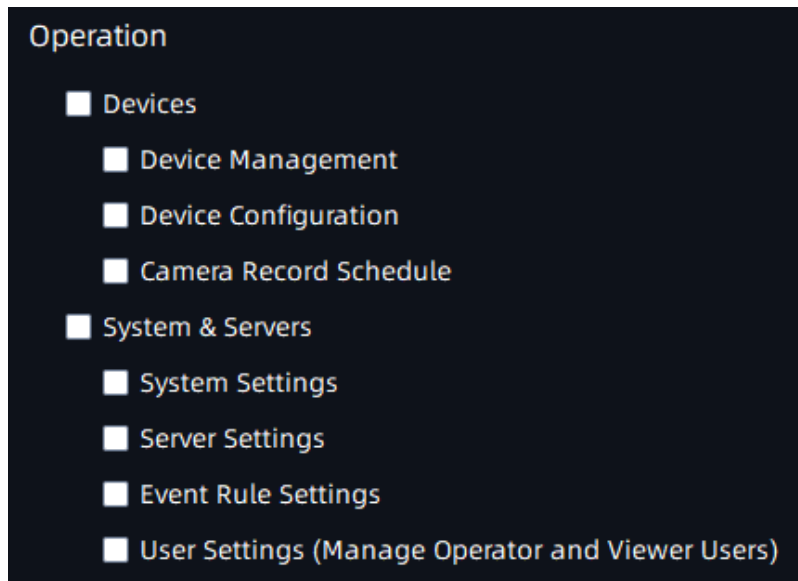


 **Note:** Even if Camera page is not displayed, Viewer has full access to camera of VMS system by default.

- Customized role: You can customize the role permissions.

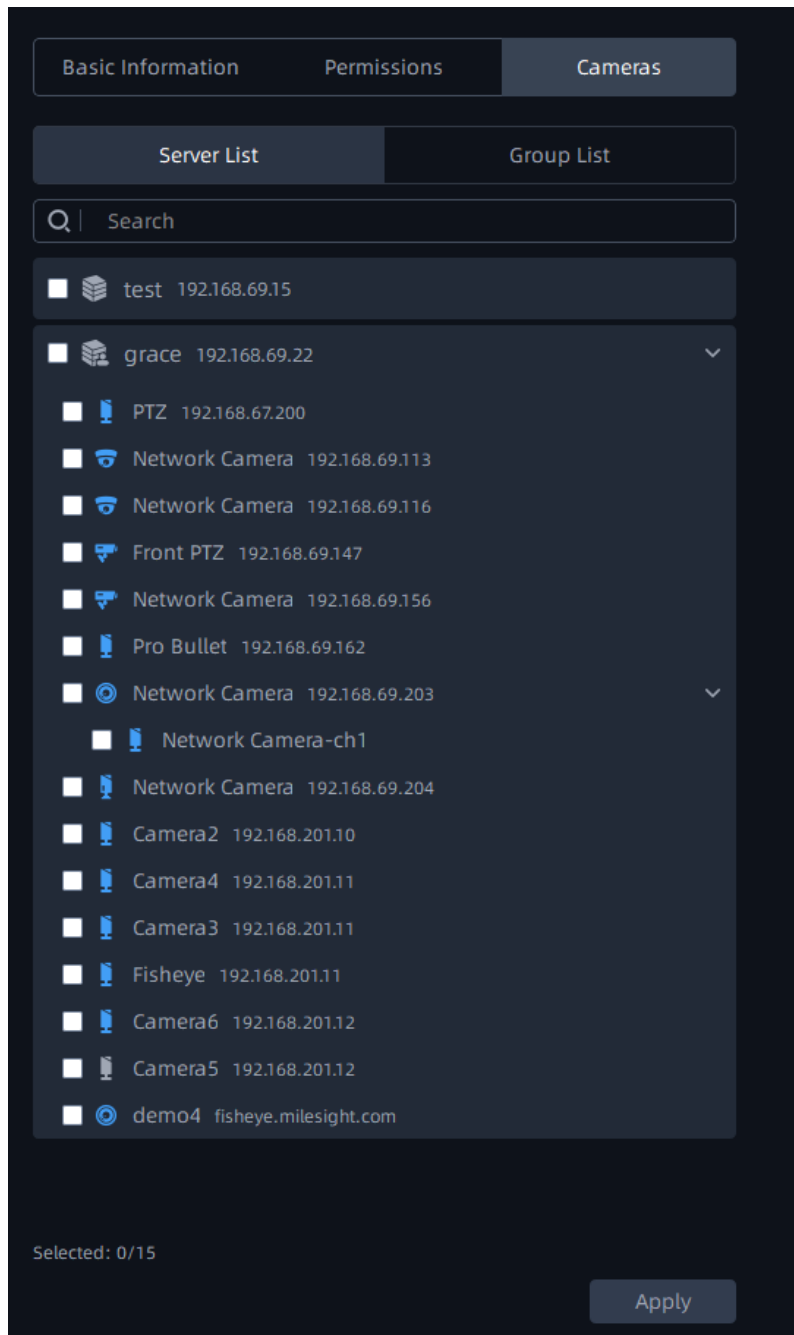
Function


- Live View
 - Live View PTZ Control
 - Live View User Input (PTZ Settings, Talk, Image Settings ...)
 - Live View Manual Record & Snapshot
- View Archive(Playback, Retrieve)
 - Export Archive(Playback, Retrieve)
 - Manage Locked Files
 - All Users
 - Individual
 - Add & Manage Tags
 - All Users
 - Individual
- Smart Analytics
 - ANPR
 - People Counting
 - VMS-end Video Analytics
 - Retrieve
- Event Logs
- Audit Trail
- E-Map
- Video Wall
 - Control & Edit
 - Control
- Right Panel
 - ANPR

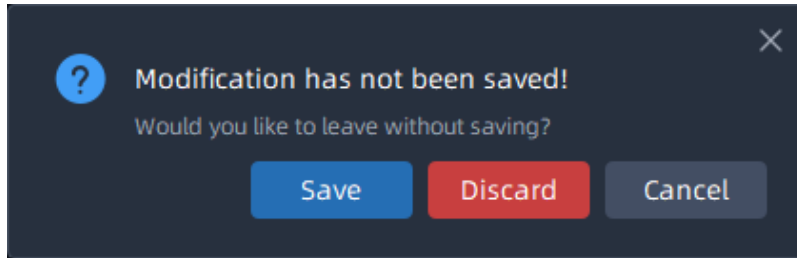


Cameras Page

Here you can configure cameras 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

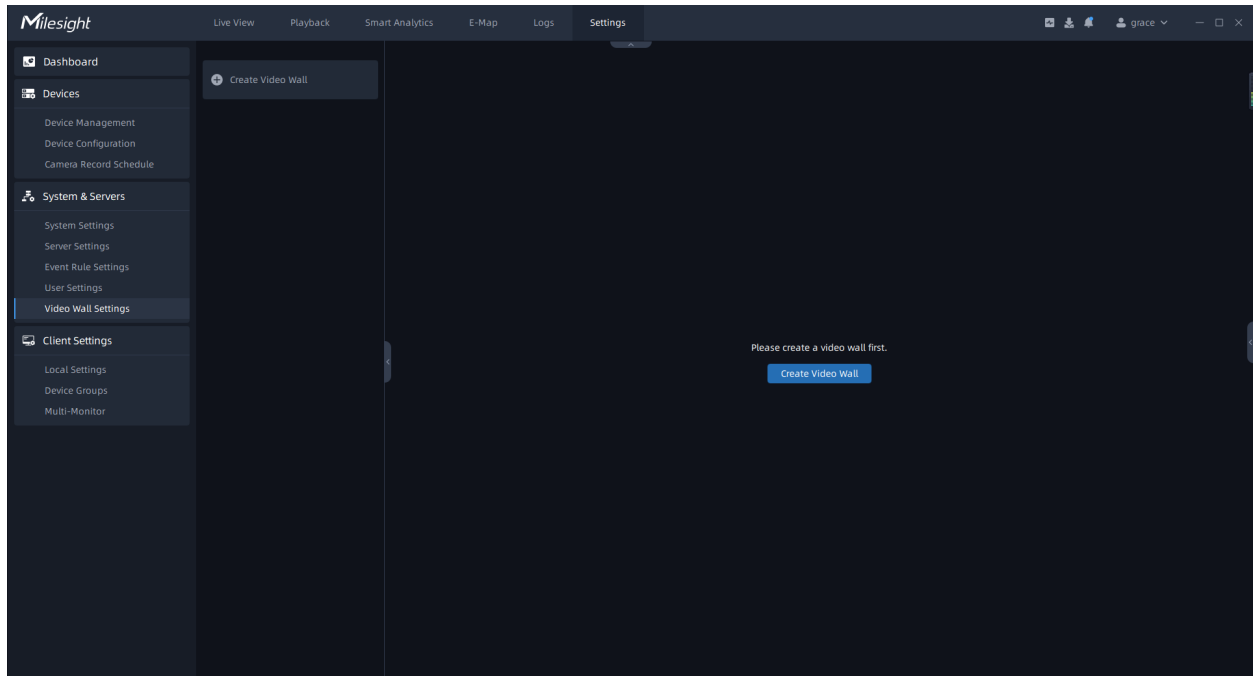
Here you can operate all the settings related to the [video wall \(page 222\)](#) in Live View.

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


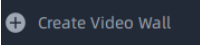
On each Video Wall Screen, it supports:

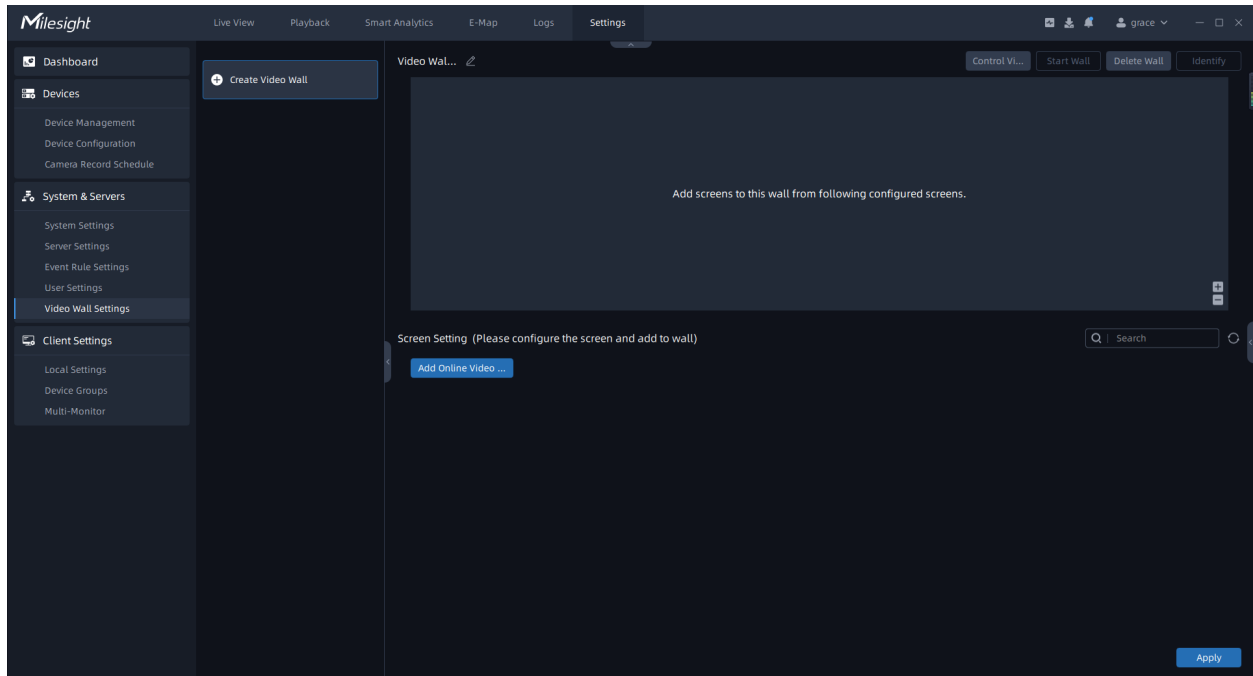
- Display up to 64 IP Channels
- Display Primary / Secondary Streams
- Freely adjust the size and position of each channel, whether it be within or across monitors
- Video Wall Tour/Tour Plan, each displaying unrestricted channels in turn, at custom time intervals and custom layouts




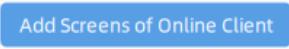
Before setting, you need to confirm the following items:

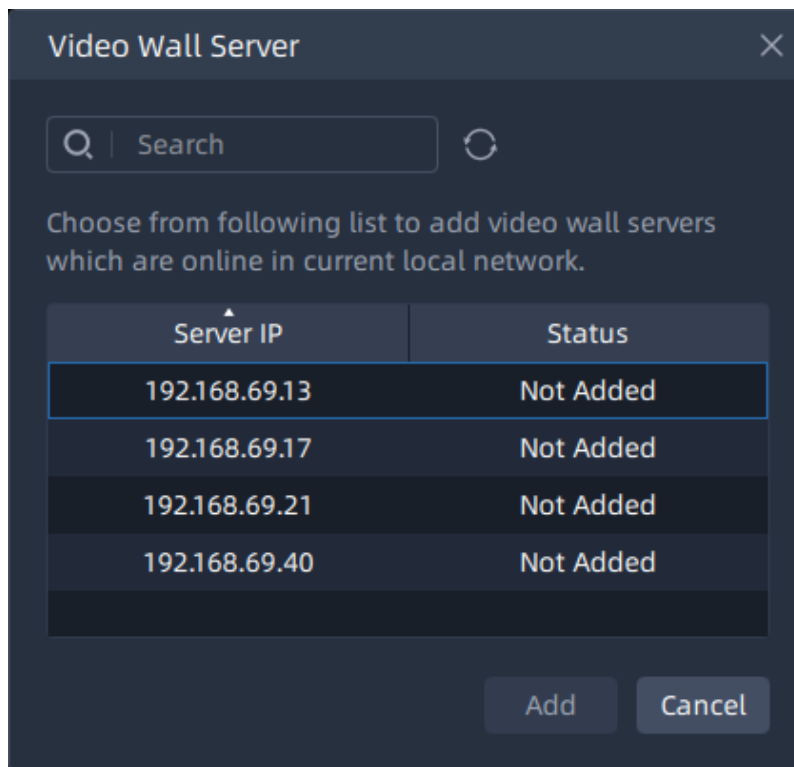
- There are license for Video Wall in the system, and the license quantity is sufficient.
- On the device connected to the monitor, the server of the Video Wall has been installed and running.


Step1: Click  button or  button in the left panel, then the page will change as below:

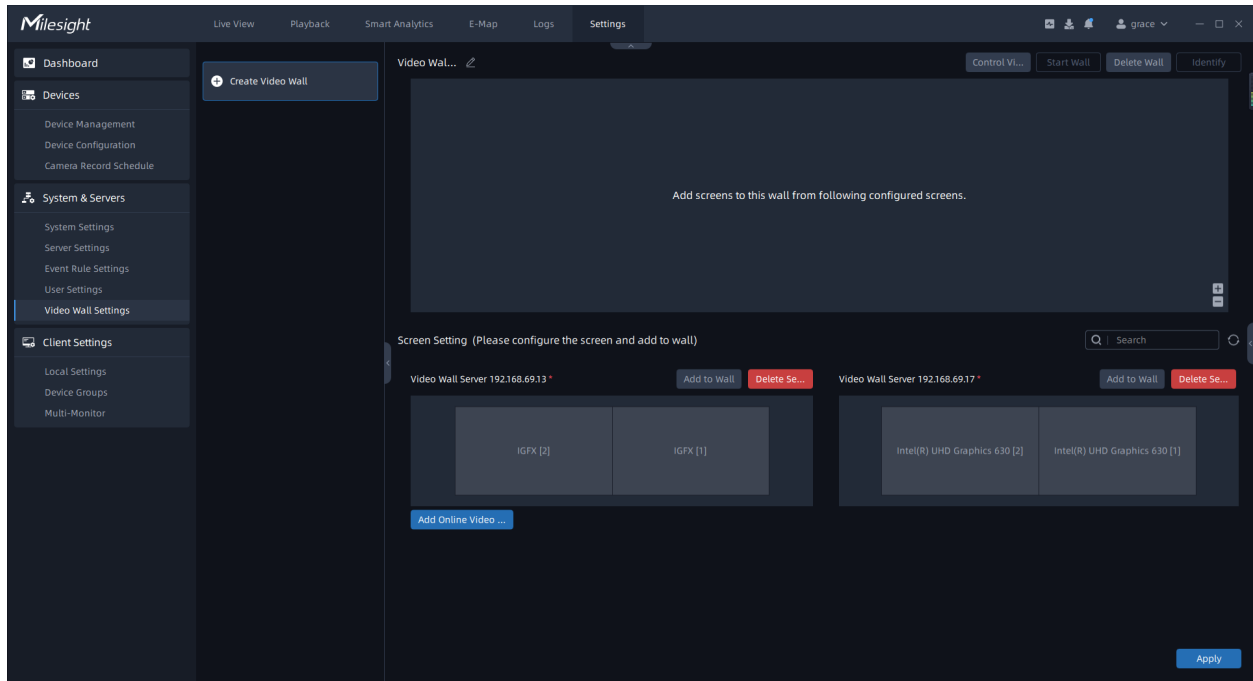


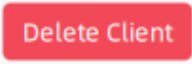
You can click  next to the name to rename.

Step2: Click  button, a window will be popped up as shown below:

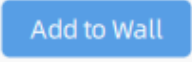


Step3: All online clients that have no screen existed in current video wall will be displayed in the list. Click a client and click  button. You can add multiple as needed. Then the added client will be shown on the page as below:

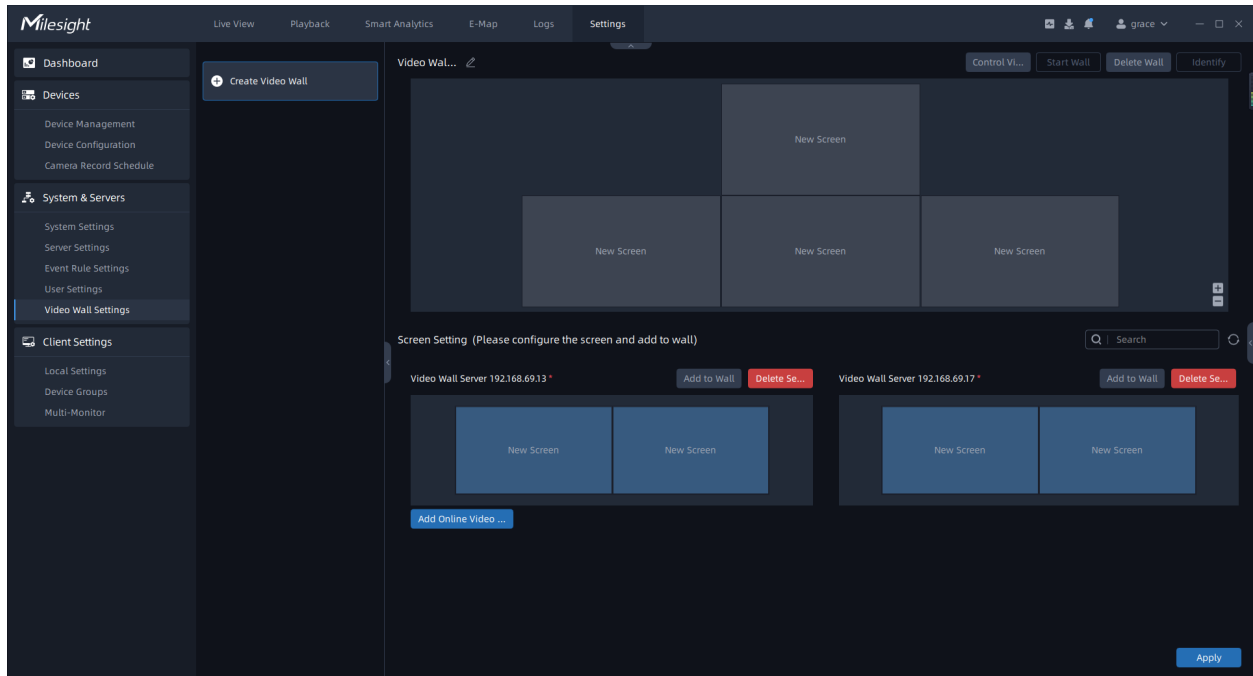


You can click  button to delete the client.


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

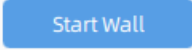
Then click  button to add the screen to the wall. You can add multiple screens as needed.

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:

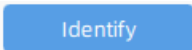





You can click the screen and drag to adjust the position.

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 [video wall \(page 222\)](#) in Live View.

There are some other operations as below:

- Click  button to identify the corresponding screen.
- Click  button to stop running the video wall.
- Click  button to delete the video wall.

 **Note:** For more detailed configuration, you can refer to [MileSight-Troubleshooting-VMS Enterprise Video Wall](#).

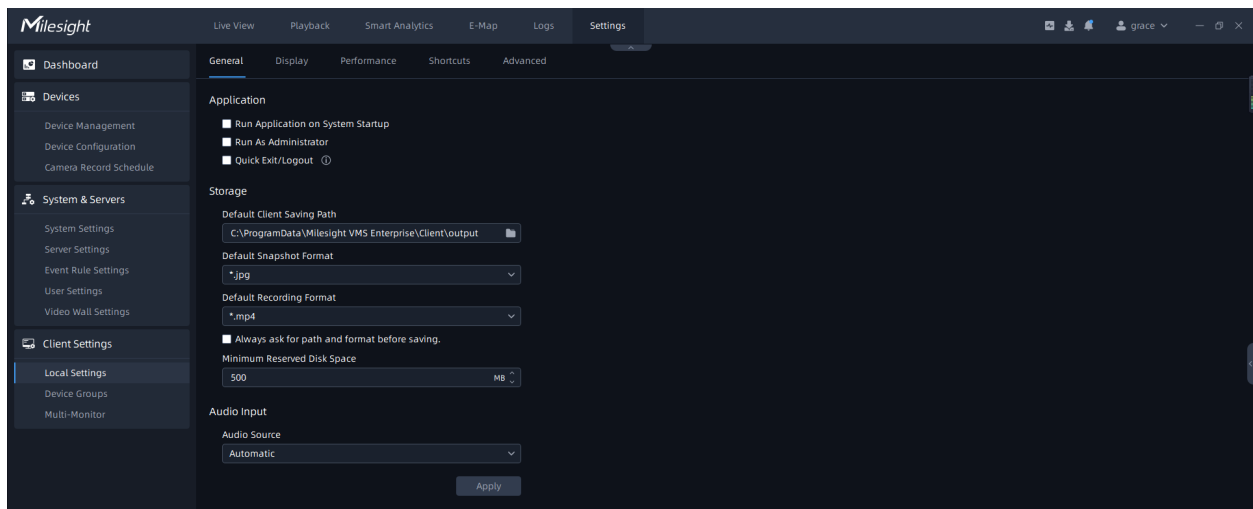
3.4 Client Settings

3.4.1 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:

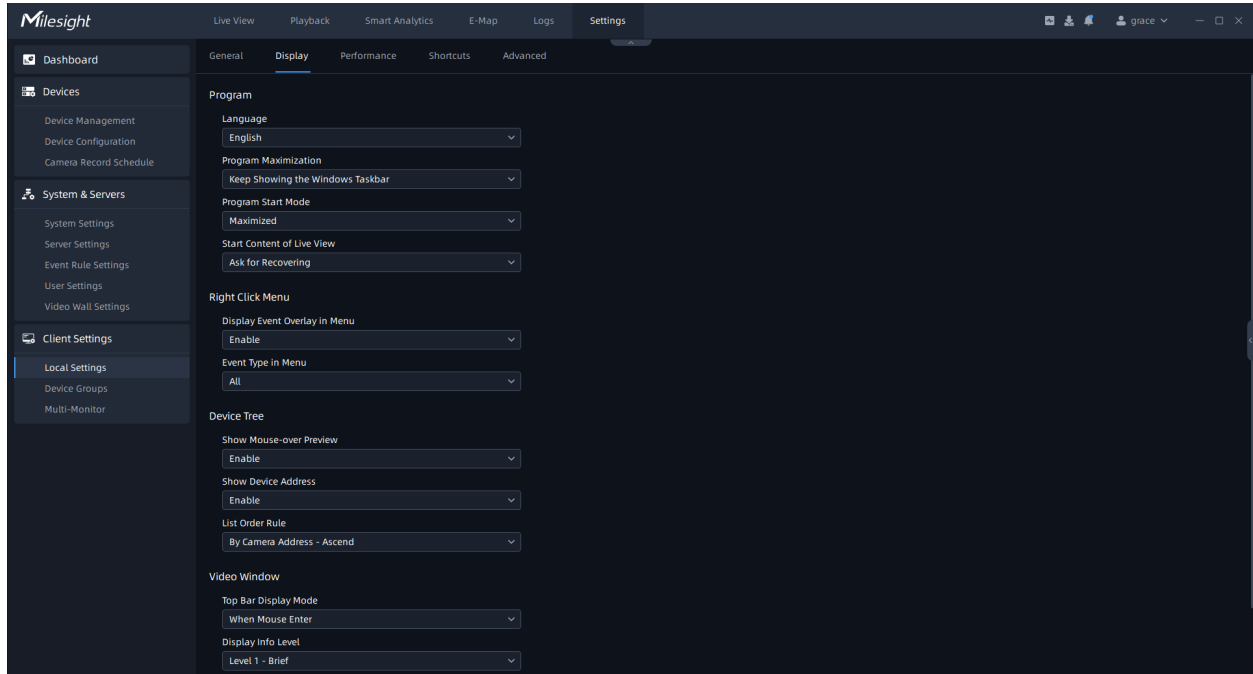
Table 32.

Item	Function Introduction
Application	<p>You can customize some settings about system startup and exit here, including Run Application on System Startup, Run As Administrator, Quick Exit/Logout.</p> <p> Note: There will be no prompt when exiting/logging out the application if checked.</p>

Item	Function Introduction
<p style="text-align: center;">Storage</p>	<p>Default Client Saving Path: You can click the  button to choose a path to store recordings and snapshots from VMS.</p> <p>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.</p> <p>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.</p> <p> 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.</p> <p>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.</p>
<p style="text-align: center;">Audio Source</p>	<p>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.</p> <p>Automatic means audio source varies with system audio interface, and the interface used by the system will take effect.</p>

Display

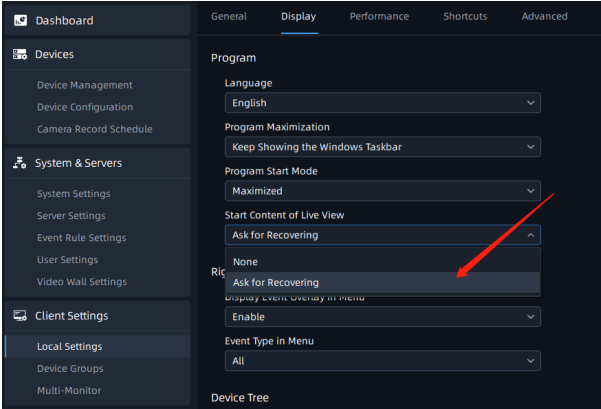
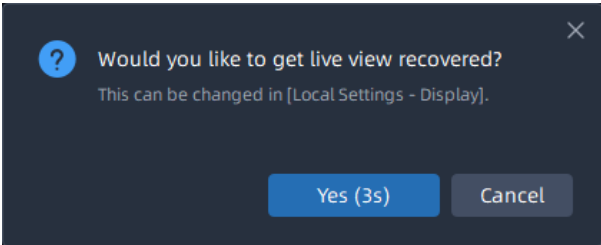
You can set VMS client display including system language, VMS client window display and image window display, etc.

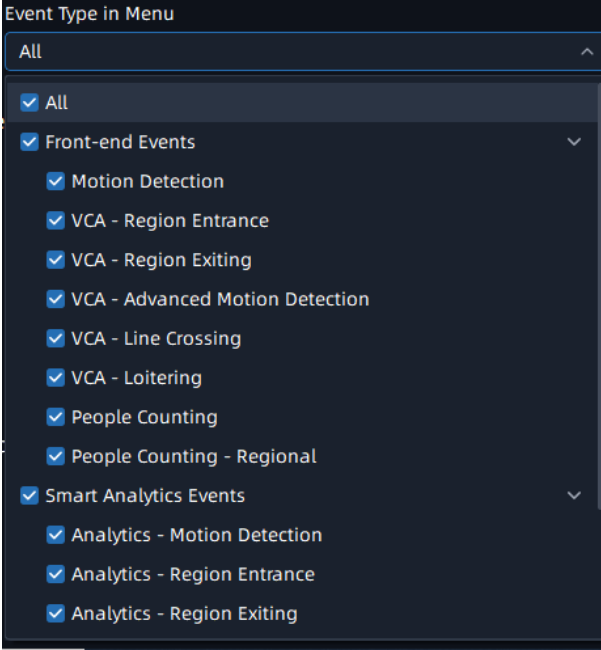
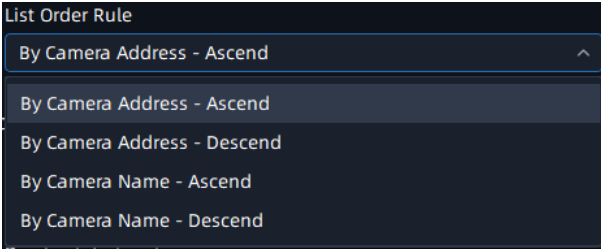


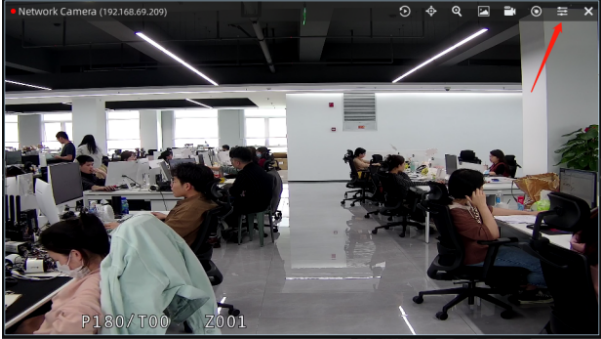
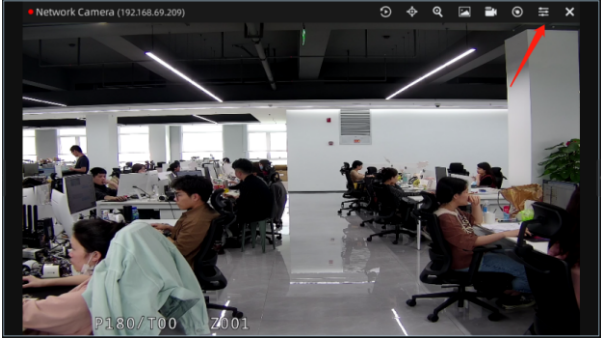
The meanings of the items on the page can be referred to the table below:

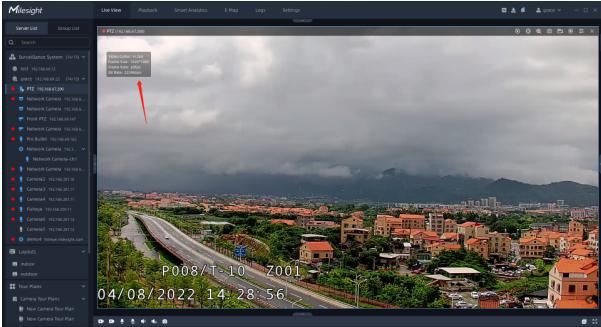
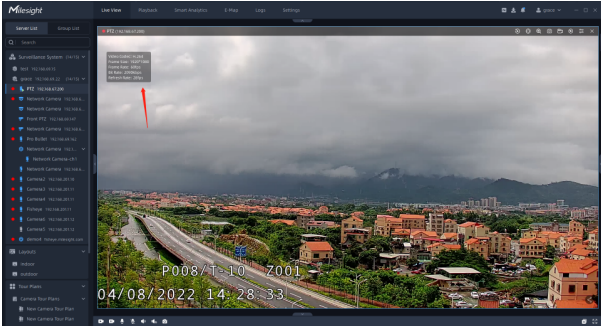
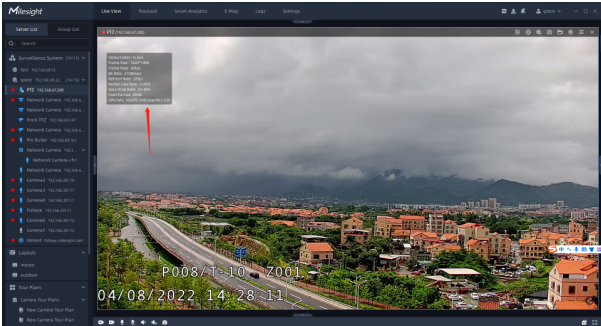
Table 33.

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	<p>Choose a display mode of VMS window when starting the VMS client, including Maximized, Window at Center and Last.</p> <p>Maximized: VMS window will display according to Maximization you set when starting the VMS.</p> <p>Window at Center: VMS window will display at center of your screen when starting the VMS.</p> <p>Last: VMS window will display according to the previous logout status when starting the VMS.</p>

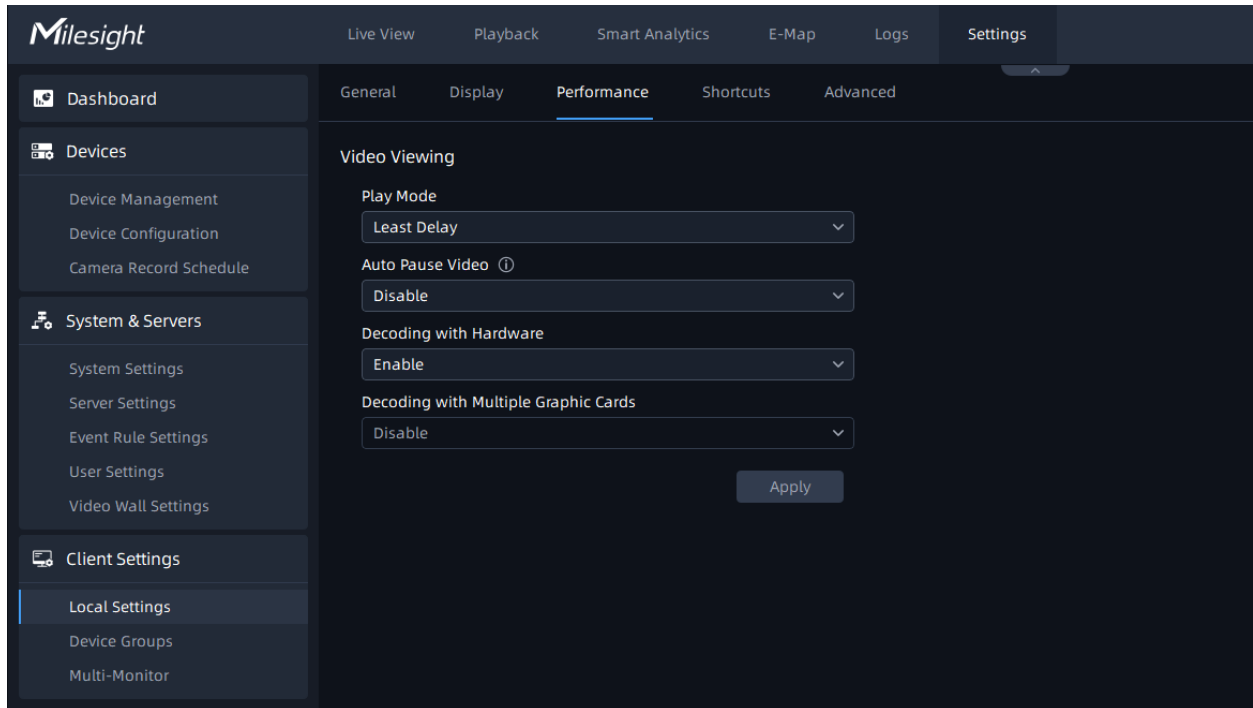
Item	Function Introduction
<p style="text-align: center;">Start Content of Live View</p>	<p>If the "Ask for Recovering" option is selected, when the VMS Client program is started, it will ask to restore the last closed preview window.</p>  
<p style="text-align: center;">Display Event Overlay in Menu</p>	<p>Enable to display Event Overlay on Live View interface when right click the menu.</p>

Item	Function Introduction
<p>Event Type in Menu</p>	<p>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.</p> 
<p>Show Mouse-Over Preview</p>	<p>Select the module to be displayed on Mouse-Over Preview.</p>
<p>Show Device Address</p>	<p>Select the module to display the device address in Device Tree, including IP address, domain, MAC address, etc.</p>
<p>List Order Rule</p>	<p>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.</p> 

Item	Function Introduction
<p style="text-align: center;">Top Bar Display Mode</p>	<p>Set display mode for top bar of video window.</p> <p>When Mouse Enter: Top bar of video window will display only when your mouse enters the camera video window.</p> <p>Always: Top bar of all cameras' video window will always display.</p> <ul style="list-style-type: none"> • When Mouse Enter:  <ul style="list-style-type: none"> • Always: 

Item	Function Introduction
<p style="text-align: center;">Display Info Level</p>	<p>You can set the stream information displayed on the live view interface to Brief, More or Professional, as shown below:</p> <p>Brief:</p>  <p>More:</p>  <p>Professional:</p> 
<p style="text-align: center;">Frame Rendering Mode</p>	<p>You can choose Keep Aspect Ratio to keep image Aspect Ratio, and also choose the Stretch to Window Size.</p>

Performance



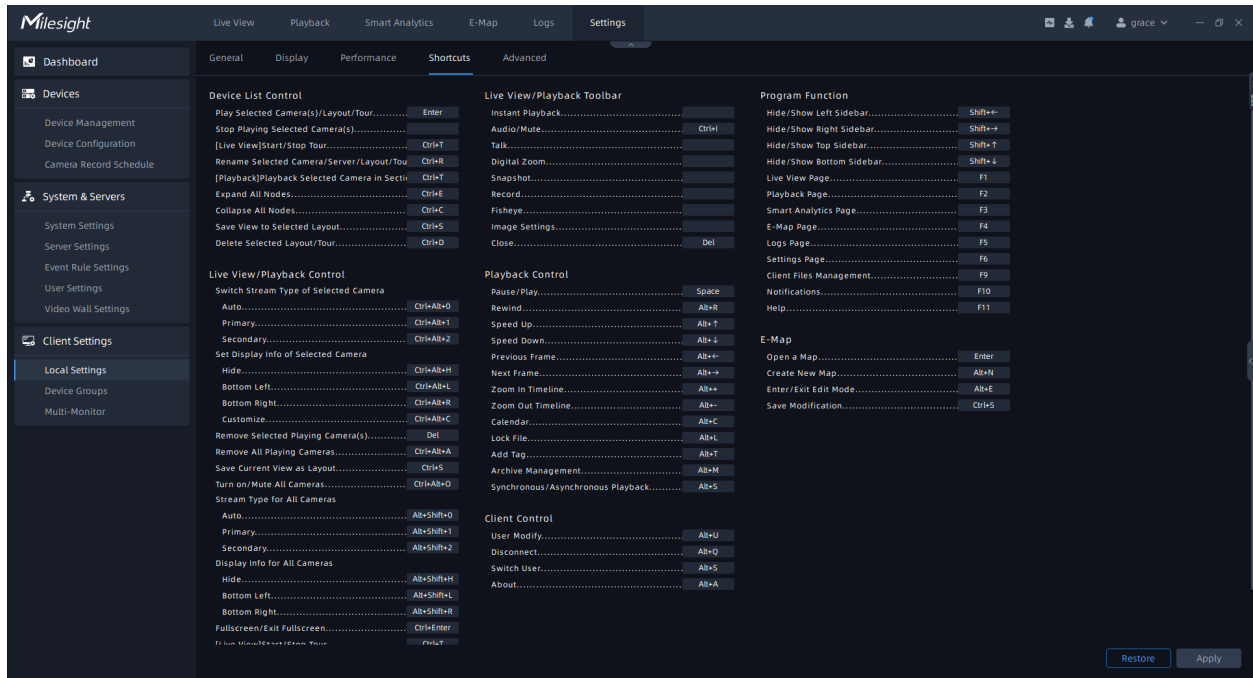
The meanings of the items on the page can be referred to the table below:

Table 34.

Item	Function Introduction
Play Mode	Users can choose Least Delay or Best Fluency 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.



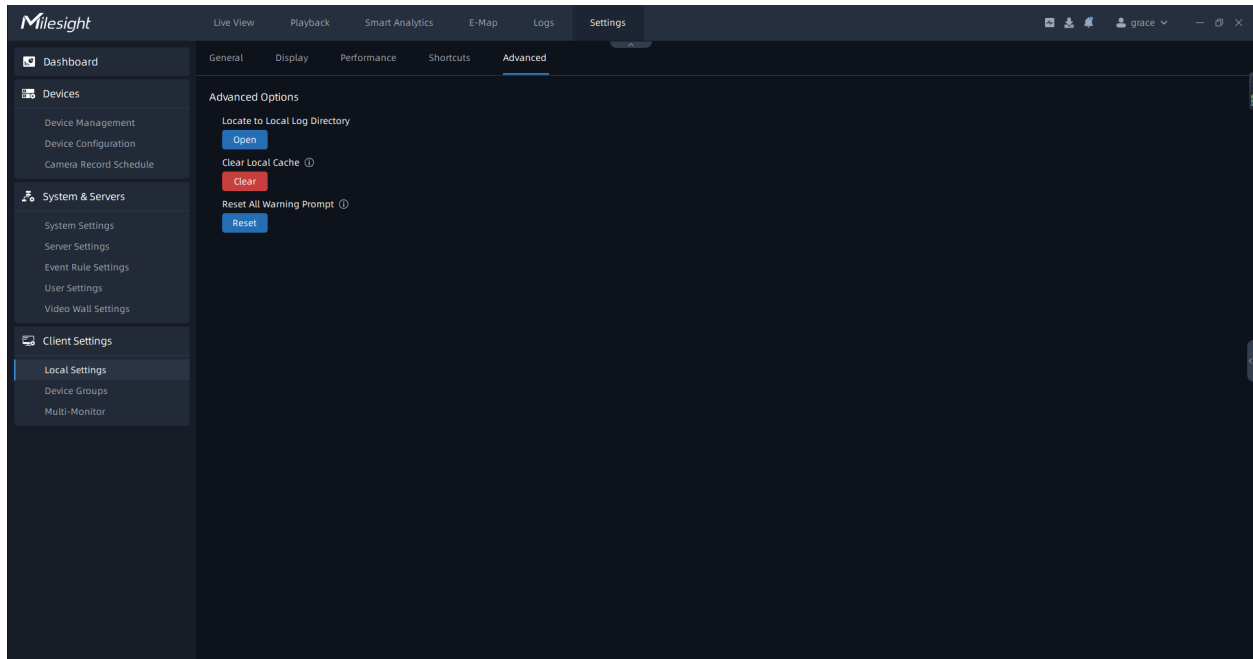
Step1: Click the shortcut button, then press the shortcut key on the keyboard. The shortcut key will be displayed on the shortcut button.

Step2: Finish settings and click  button.

You can click  button to restore to default settings.


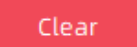

Advanced

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



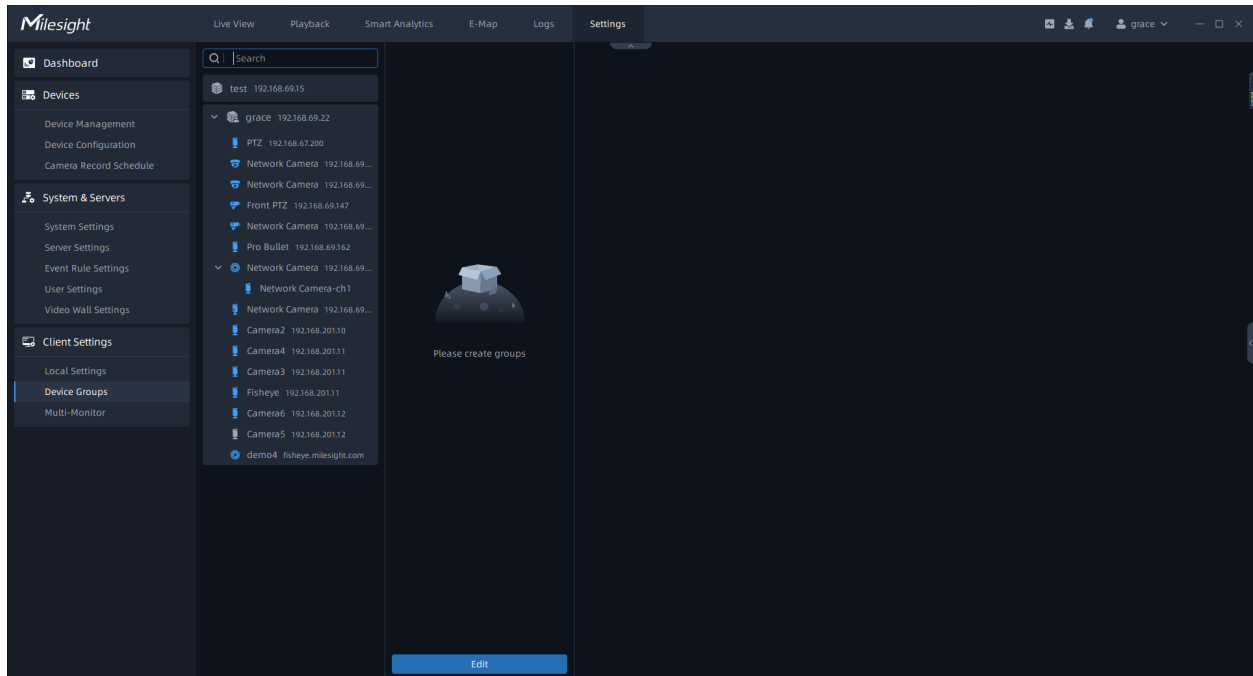
The meanings of the items on the page can be referred to the table below:

Table 35.


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

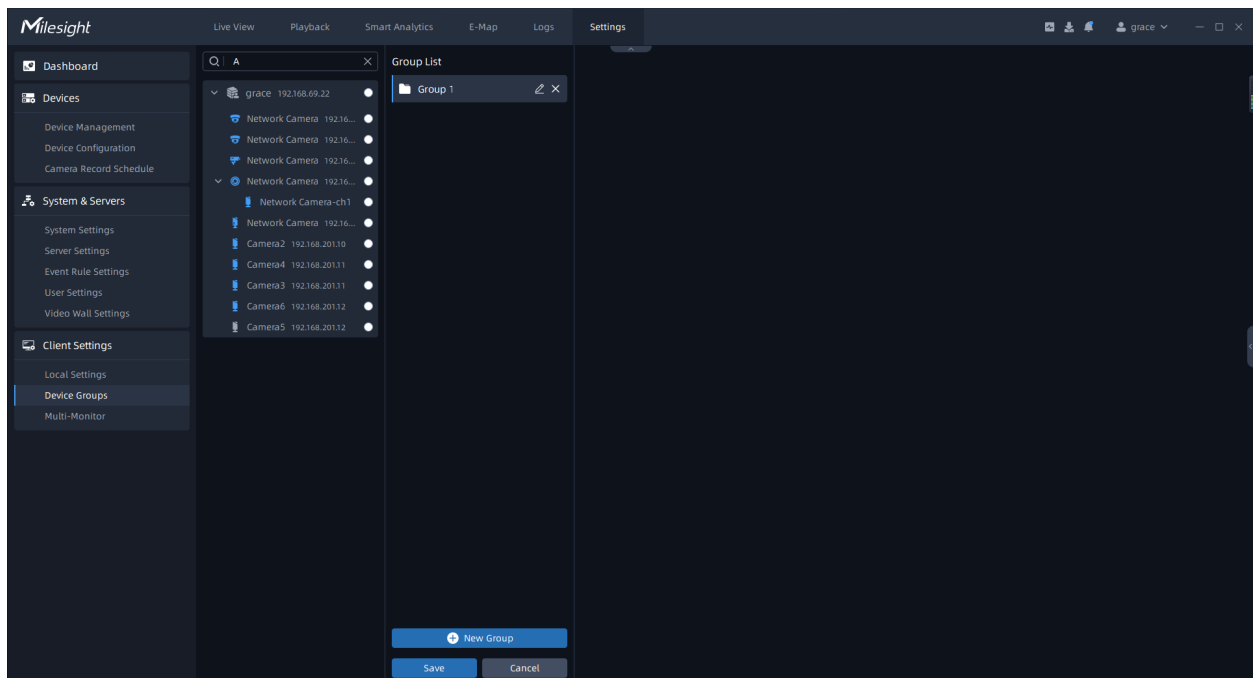
3.4.2 Device Groups



Here each user can customize cameras group management according to needs.




You can group the channels added by the server in the system according to following steps:


Step1: click the  button, then the page will change as below:



Step2: Click the  button to create new groups, then click the  button to edit the name of created groups;

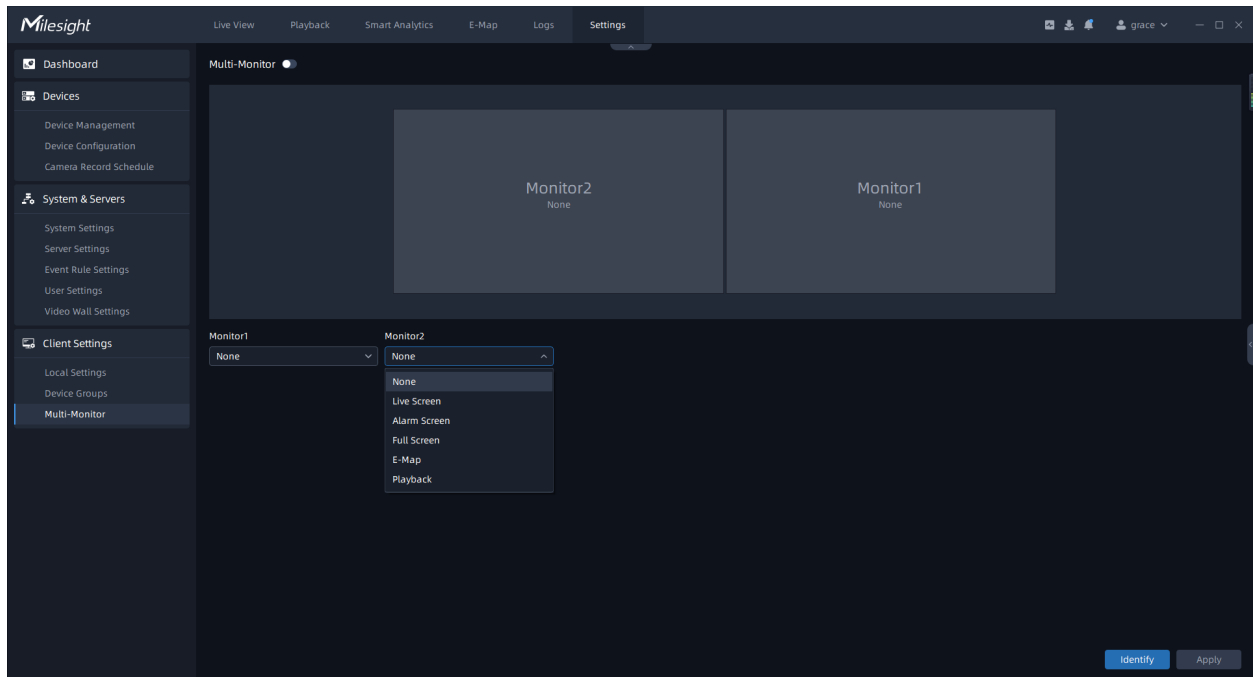
Step3: Click the  button to add cameras to the groups which you create;

Step4: After grouping the cameras, click “Save” button. A pop-up window will inform you “Group save successfully”, then click “OK” button.

 **Note:** Each camera can only be added to a group.

3.4.3 Multi-Monitor

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



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 [Right-click menu of Live View window \(page 234\)](#), 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.

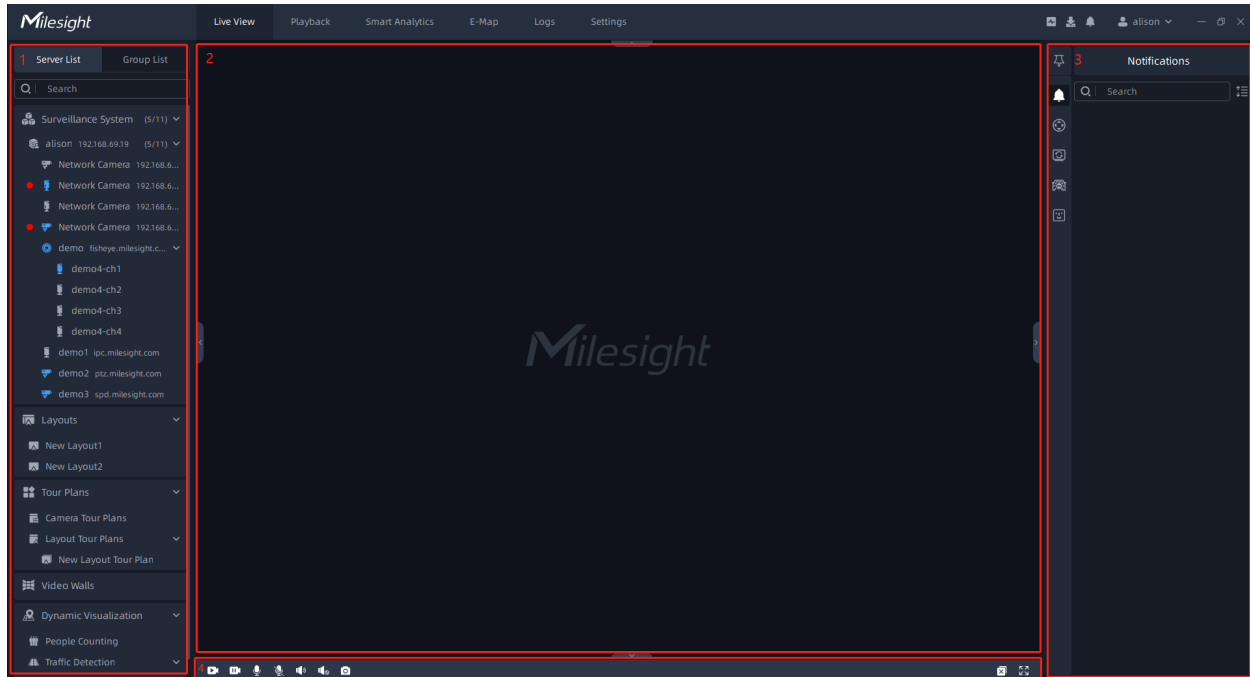
Playback: For this mode, users can search and play back the recorded files of selected cameras.

 **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 217](#)) Displays all servers and cameras inside the VMS system.

Center Viewing panel: ([page 230](#)) Can display maximum up to 64 individual live camera streams.

Right Function panel: ([page 238](#)) There are four tabs, including Notifications, ANPR Preview, PTZ Control and Camera Tour List.

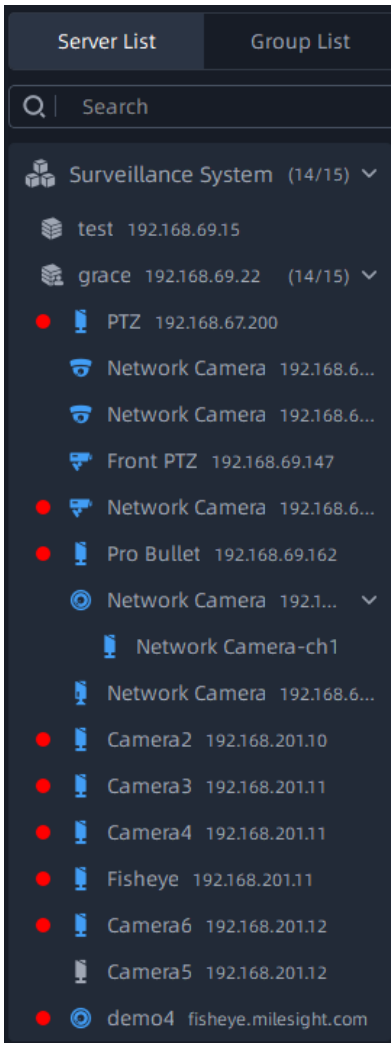
Bottom Toolbar: ([page 237](#)) Users can operate all channels being played in batches.

If cameras have not been added, then you can add the cameras manually or by searching cameras. For details, please refer to the [Search Camera \(page 43\)](#) and [Add Camera \(page 43\)](#) of Device 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.

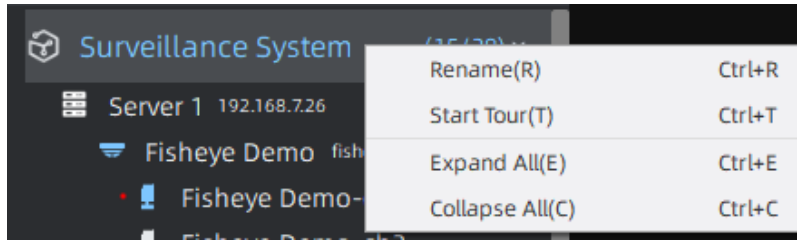
4.1.1 Server List



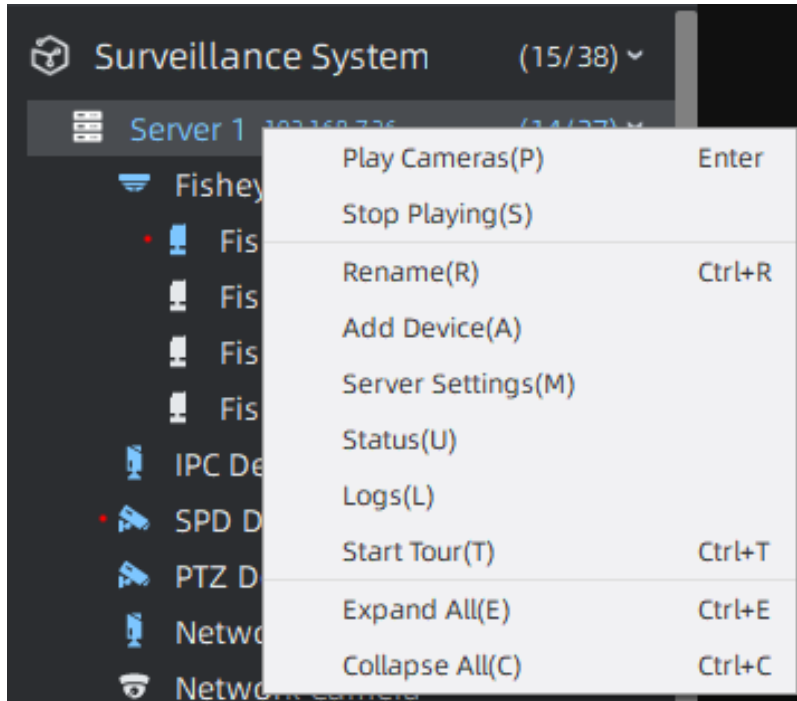
The Server List contains the VMS system, servers inside the system, cameras inside the servers. The Server List interface is as below:

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

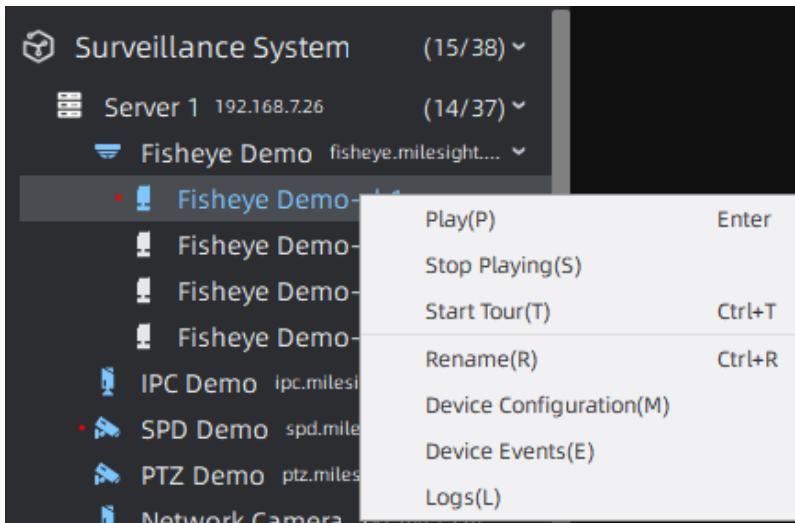
- Pop-up Menu on the right-click of system:



- 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:

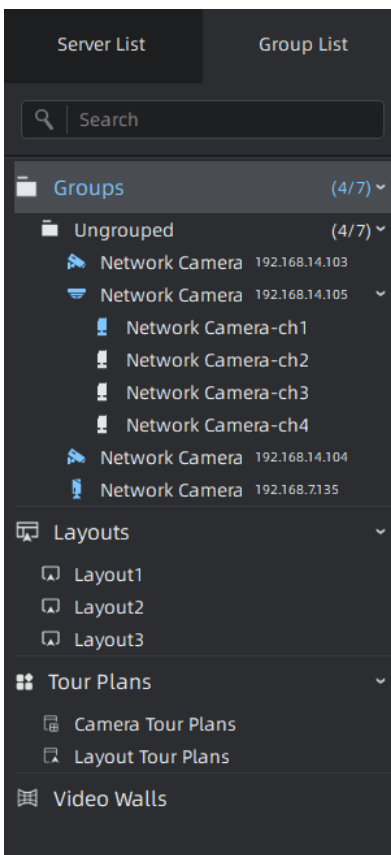
Table 36.

Item	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.

Item	Description
Logs	Jump to the Logs page.
Device Configuration	Jump to the Device Configuration page.
Device Event	Jump to the Device Event page.

4.1.2 Group List

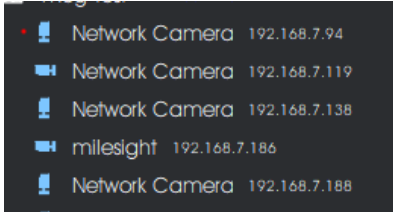
The Group List will show the cameras according to the groups settings in the [Group Settings \(page 212\)](#). The Group List interface is as below:



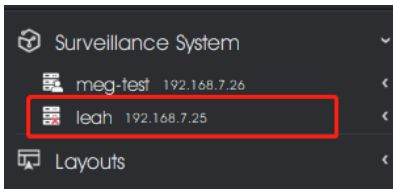
Right-click on the device list, the meanings of the items in the Pop-up Menu can be referred to the table .

 **Note:**

- 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.



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



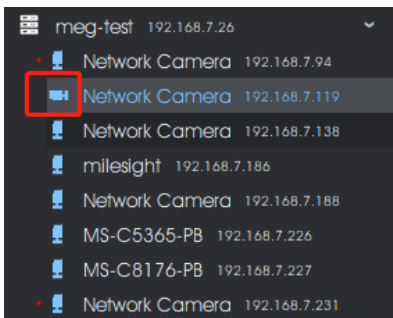
Layouts can be customized. The customized layouts will both show in the Server List and Group List. Setting customized layout can refer to the Save As Layout item of table in the [Right-click menu of Live View window \(page 234\)](#).

How to connect the camera:


Select a camera in the left resource panel, and double-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.

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

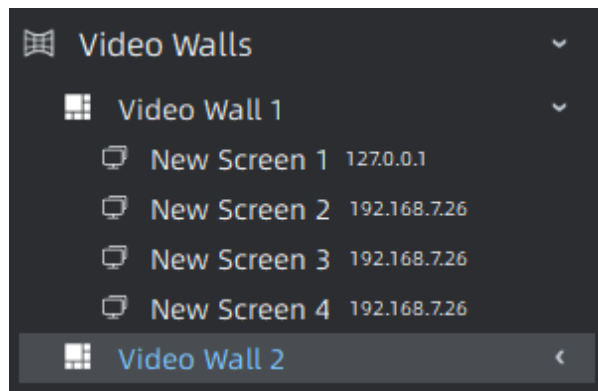



How to disconnect the camera:

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.

4.1.3 Video Wall

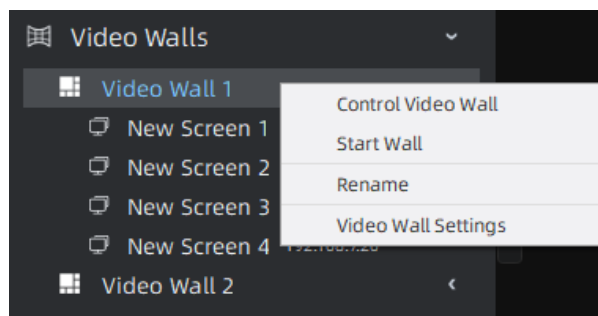
Through this function, you can use all screens in the local area network. The video wall list will be shown according to the video wall you created in the [Video Wall Settings \(page 198\)](#). The video wall is as below:



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?

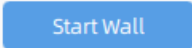
Step1: Right-click the video wall and a menu window will pop up as below:



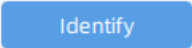
Step2: Click Control Video Wall and a window will pop up as below:




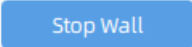
Step3: Double-click a screen, then you can enter the specific screen. For more details, please refer to the [How to use screen \(page 223\)?](#)

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:

(1) Click  button to identify all running screens in the video wall.

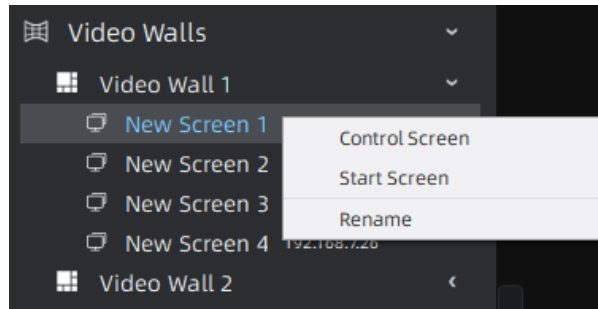
(2) Click  button to clear the content on all screens in the video wall.

(3) Click  button to stop running the video wall.

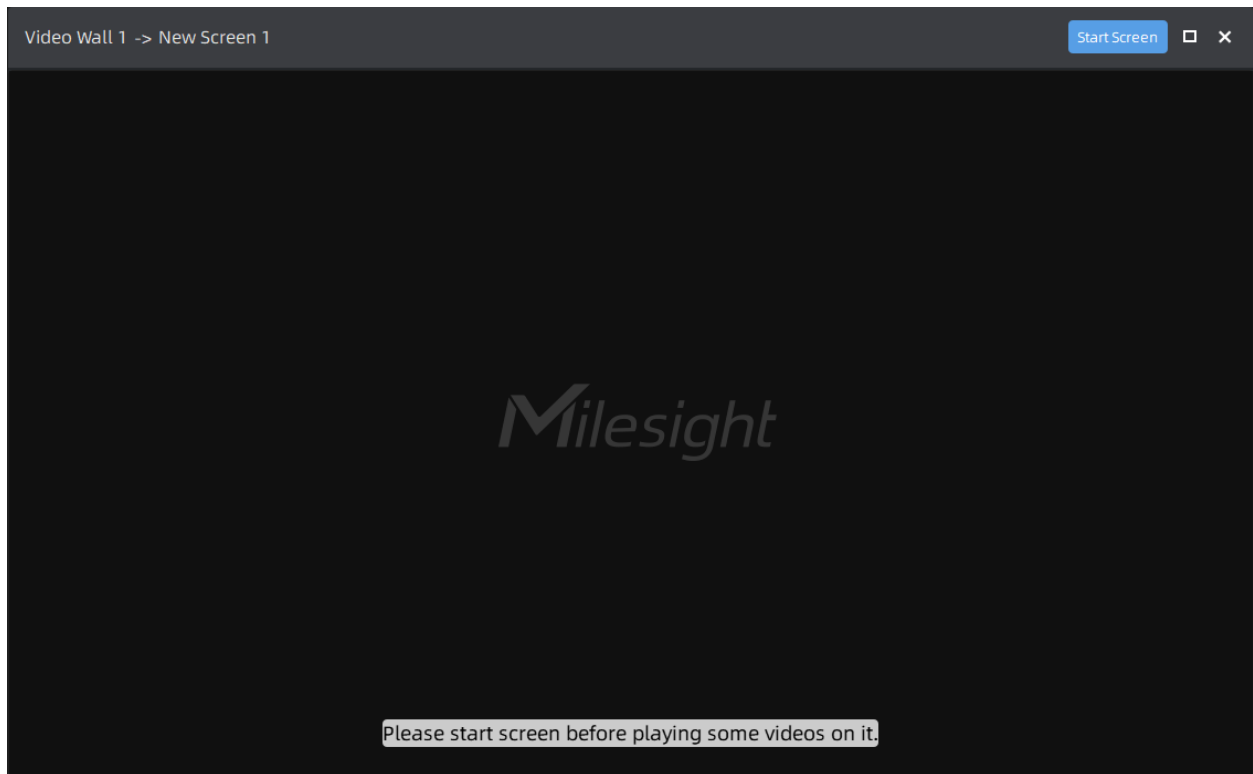
- **How to use screen?**

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.

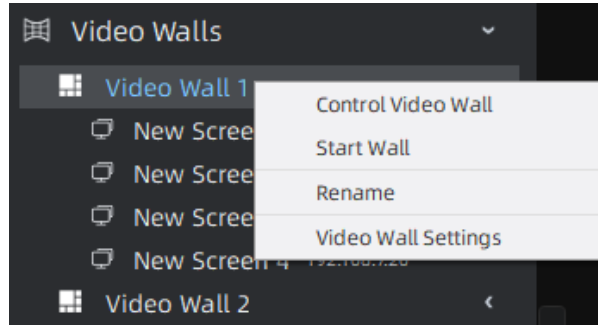
After running the screen, there are some operations as below:

- (1) Click **Refresh** button to refresh the screen.
- (2) Click **Identify** button to identify the corresponding screen.
- (3) Click **Clear Screen** button to clear the content on the screen.

(4) Click  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:

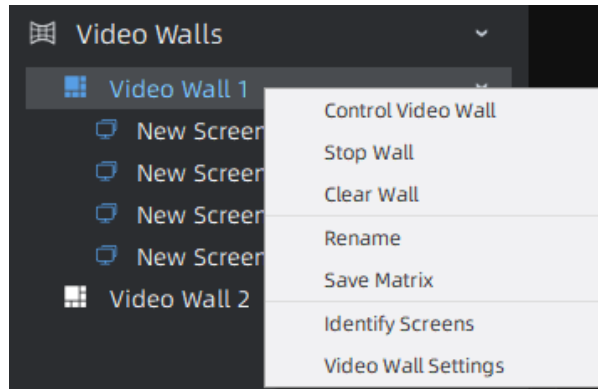


The meanings of the menu can be referred to the table below:

Table 37.

Item	Function Introduction
Control Video Wall	Use the video wall. For more details , please refer to the How to use video wall (page 222)?
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:

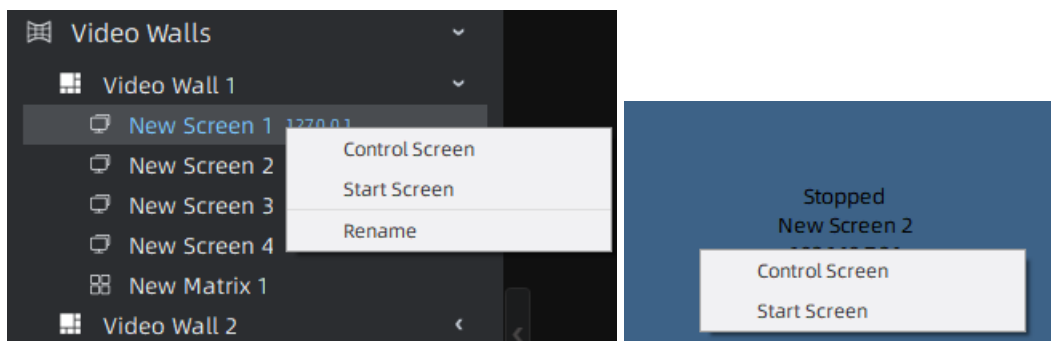


The meanings of the menu can be referred to the table below:

Table 38.

Item	Function Introduction
Control Video Wall	Use the video wall. For more details , please refer to the How to use video wall (page 222)?
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:

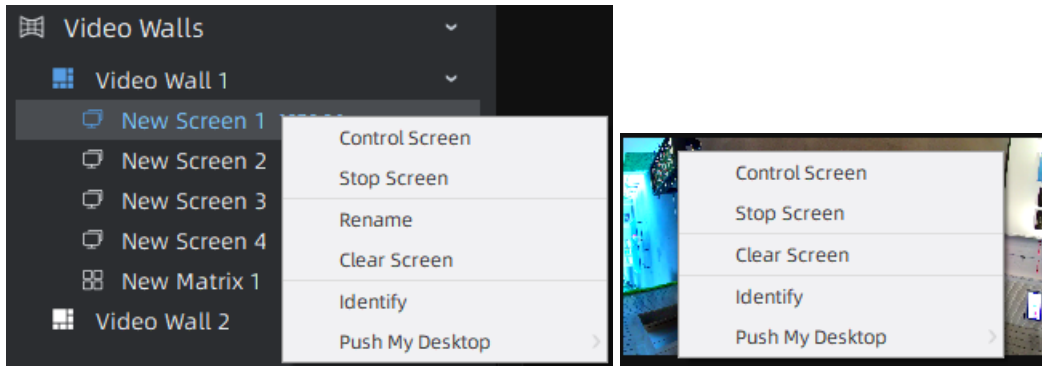


The meanings of the menu can be referred to the table below:

Table 39.

Item	Function Introduction
Control Screen	Use the video wall. For more details , please refer to the How to use screen (page 223) ?
Start Screen	Run the screen.
Rename	Rename the screen.

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



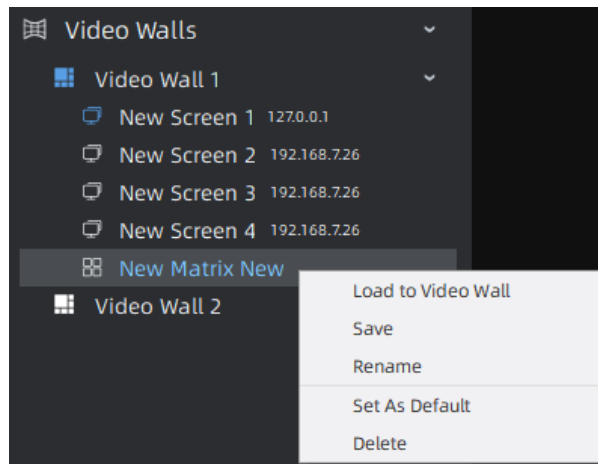
The meanings of the menu can be referred to the table below:

Table 40.

Item	Function Introduction
Control Screen	Use the video wall. For more details , please refer to the How to use screen (page 223) ?
Stop Screen	Run the screen.
Rename	Rename the screen.
Clear Screen	Clear the content on the screen.
Identify	Identify the corresponding screen.

Item	Function Introduction
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:

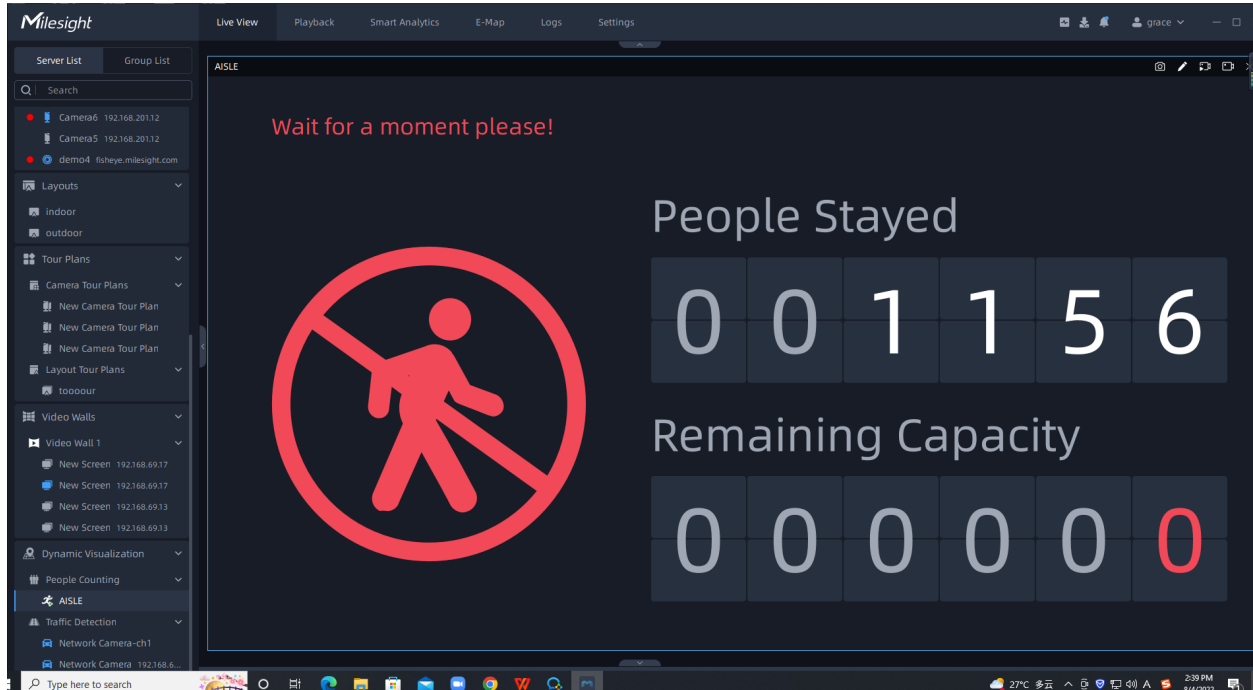
Table 41.

Item	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.

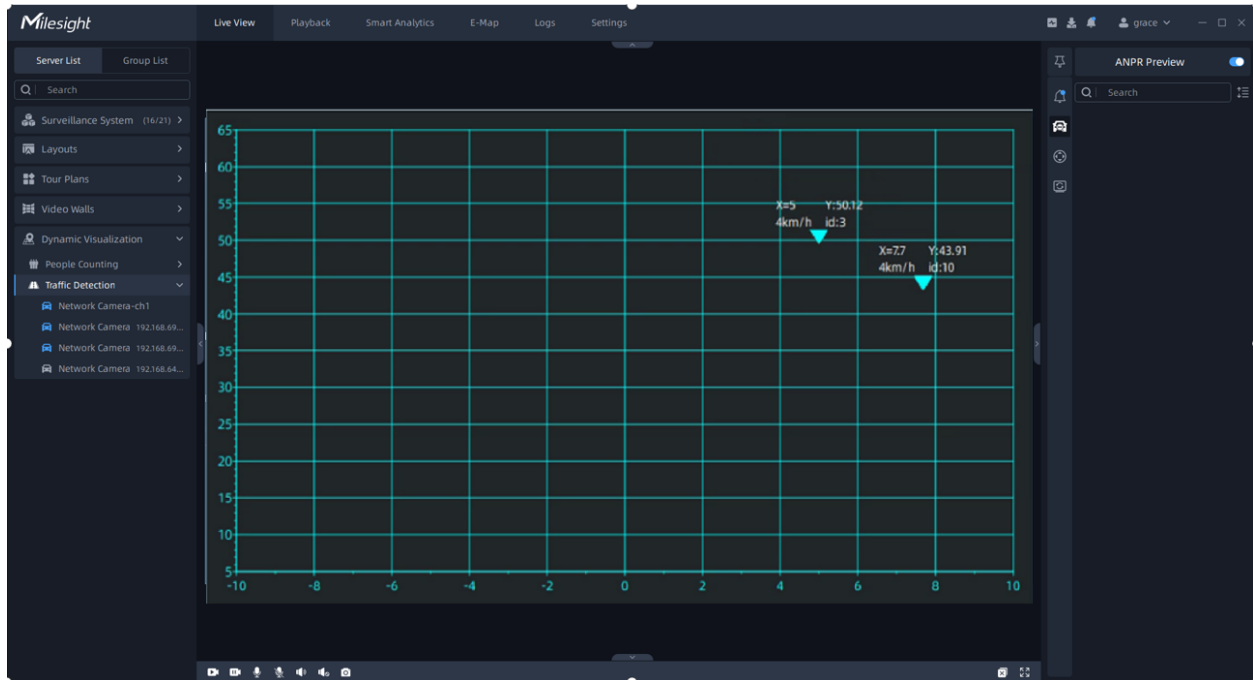


Remaining Capacity: Display the value of the remaining number of people staying in real time, and the minimum value is 0. (Remaining Capacity = Max.Stay - People Stayed, Max. Stay is set in the Smart Analytics -> [People Counting Groups interface \(page 302\)](#))

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 Traffic Detection (page).




4.2 Live View Workspace





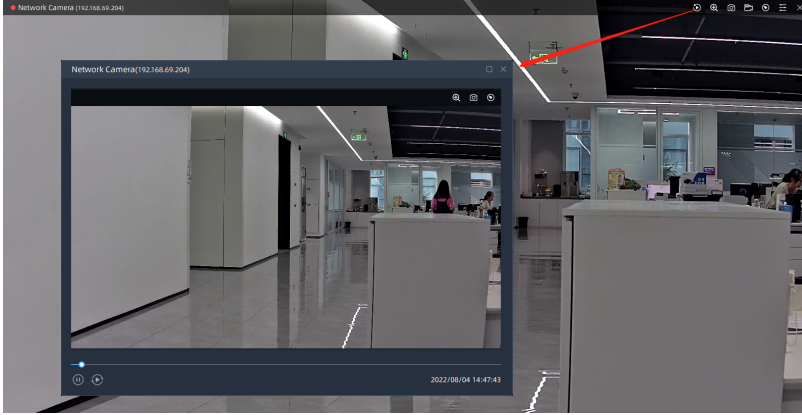







4.2.1 Toolbar of Live View Window



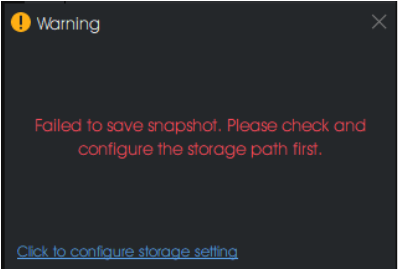


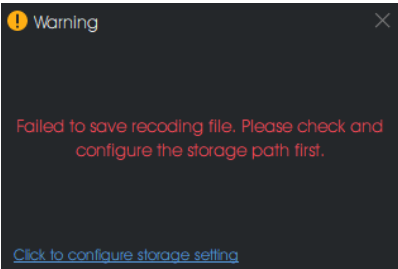


































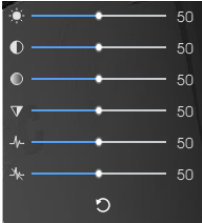

The meanings of the icons on the toolbar can be referred to the table below:

Table 42.

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

Icon	Function Introduction
	<p>Click to view the video file in the last 5 minutes.</p> <p>Click  to pause. Click  to play video file in Playback.</p> <p> Note: This item is available only for cameras which have video.</p> 
	<p>Click to turn on Speaker. You can adjust the volume of the speaker from 1~100.</p> <p> Note: This item is available only for cameras which support Audio In.</p>
	<p>Click to start talking</p> <p> Note: This item is available only for cameras which support Audio Out, including ONVIF cameras.</p>
	<p>Click to start Joystick Control and 3D Positioning for the camera live view.</p>
	<p>Click to enable Digital Zoom</p> <p> Note: The Digital Zoom can't be used with PTZ 3D Positioning at the same time.</p>

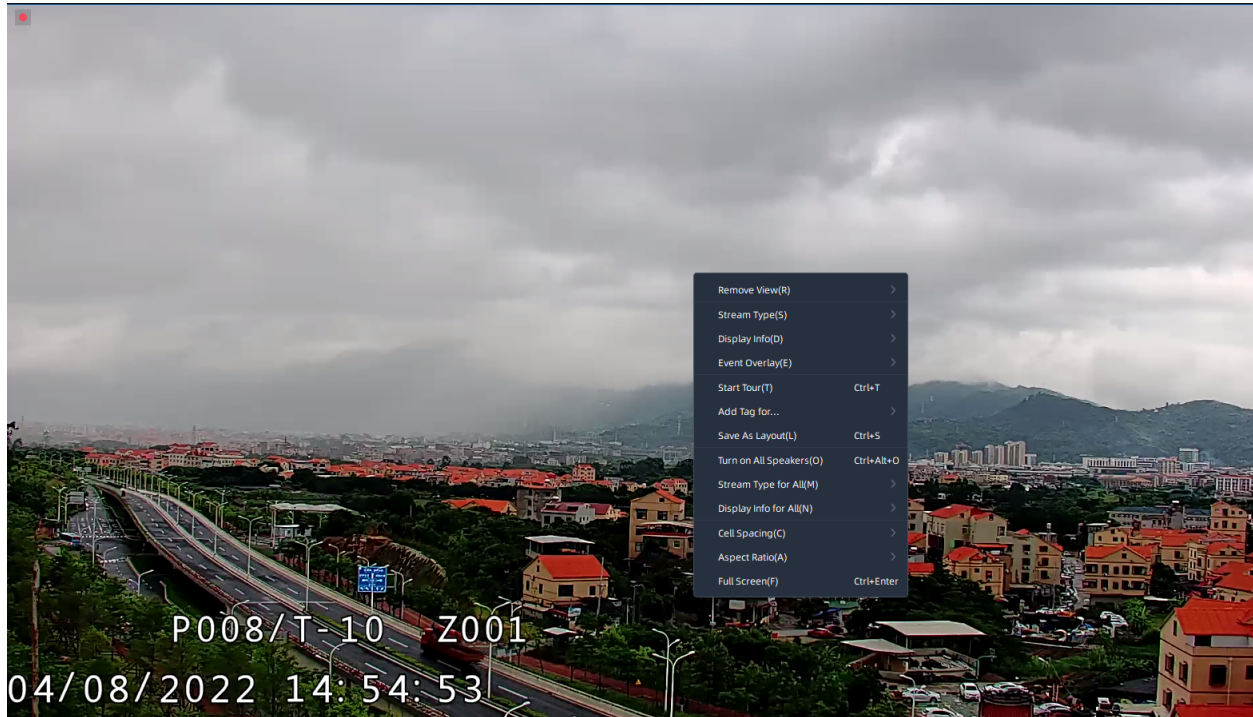
Icon	Function Introduction																
	<p>Snapshot</p> <p> Note: Please configure the storage path first, otherwise a pop-up window will inform you to set as below when clicking the button.</p> 																
	<p>Start/Stop recording manually</p> <p> Note: Please configure the storage path first, otherwise a pop-up window will inform you to set as below when clicking the button.</p> 																
	<table border="1"> <tbody> <tr> <td data-bbox="706 1243 776 1302"></td> <td data-bbox="782 1243 1427 1302">Enable Dewarping.</td> </tr> <tr> <td data-bbox="706 1312 776 1371"></td> <td data-bbox="782 1312 1427 1371">Select ceiling mounting mode.</td> </tr> <tr> <td data-bbox="706 1381 776 1440"></td> <td data-bbox="782 1381 1427 1440">Select wall mounting mode.</td> </tr> <tr> <td data-bbox="706 1451 776 1509"></td> <td data-bbox="782 1451 1427 1509">Select flat mounting mode.</td> </tr> <tr> <td data-bbox="706 1520 776 1579"></td> <td data-bbox="782 1520 1427 1579">Select live view of original fisheye view.</td> </tr> <tr> <td data-bbox="706 1589 776 1648"></td> <td data-bbox="782 1589 1427 1648">Select live view of 360° panoramic view.</td> </tr> <tr> <td data-bbox="706 1659 776 1717"></td> <td data-bbox="782 1659 1427 1717">Select live view of two 180° panoramic views.</td> </tr> <tr> <td data-bbox="706 1728 776 1787"></td> <td data-bbox="782 1728 1427 1787">Select live view of four regional views.</td> </tr> </tbody> </table> 		Enable Dewarping.		Select ceiling mounting mode.		Select wall mounting mode.		Select flat mounting mode.		Select live view of original fisheye view.		Select live view of 360° panoramic view.		Select live view of two 180° panoramic views.		Select live view of four regional views.
	Enable Dewarping.																
	Select ceiling mounting mode.																
	Select wall mounting mode.																
	Select flat mounting mode.																
	Select live view of original fisheye view.																
	Select live view of 360° panoramic view.																
	Select live view of two 180° panoramic views.																
	Select live view of four regional views.																

Icon	Function Introduction	
		Select live view of one original fisheye view and three regional views.
		Select live view of one 360° panoramic view and one regional view.
		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.
		<p>Brightness: Adjust the brightness of the scene</p> <p>Contrast: Adjust the color and light contrast</p> <p>Saturation: Adjust the saturation of the image. Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out"</p> <p>Sharpness: Adjust the Sharpness of image. Higher Sharpness sharpens the pixel boundary and makes the image looks "more clear"</p> <p>2D DNR/3D DNR: Adjust the noise reduction level</p> <p>Default: Restore brightness, contrast and saturation to default settings</p>
	Stop playing the Live View	

 **Note:** You can set display mode of the top toolbar of live view in the [Display \(page 204\)](#) of Local Settings.

4.2.2 Right-click Menu of Live View Window

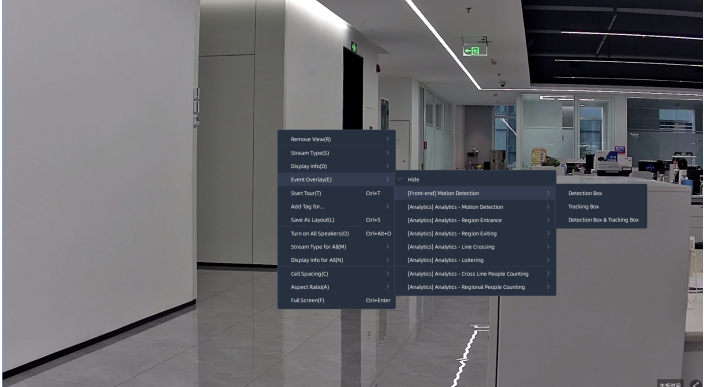
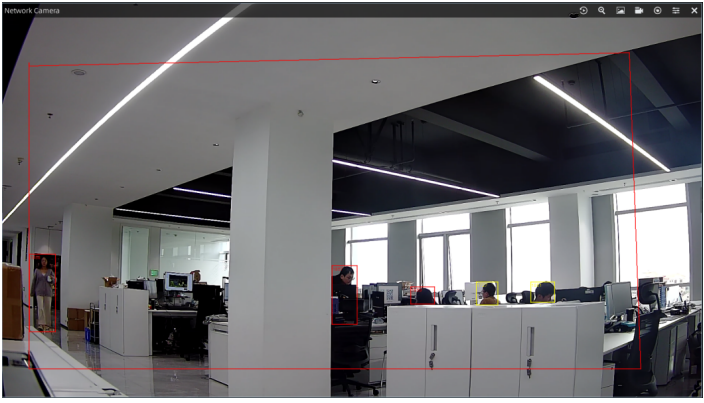
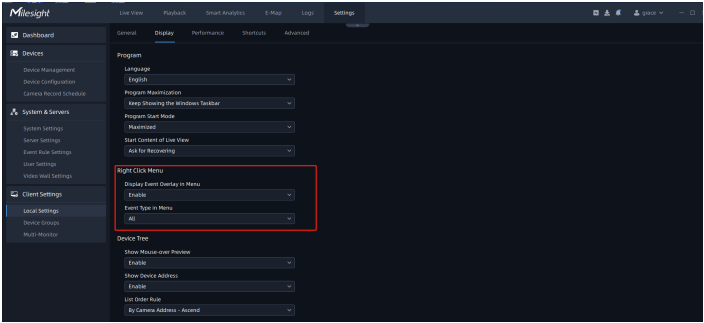
This part is used for playing the Live View window. Right-click the camera live view window to pop up a menu as shown below:



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

Table 43.

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.

Item	Description
<p style="text-align: center;">Event Overlay</p>	<p>Choose to display Event Detection Region and the detection frame to track the target for Front-end Events and Smart Analytics Events.</p>   <p>Note: Please make sure you have enabled “Display Event Overlay in Menu” option in Local Setting interface as shown below:</p> 
<p style="text-align: center;">Add Tag For</p>	<p>Choose to add tag for the selected camera or all cameras in Layout.</p>







Item	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	<p>This option is available only when you set monitor as the Full Screen mode, more Full Screen mode details can see the Multi-Monitor (page 214) .</p> <p>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.</p>
Remove	Choose Selected Views or All Views in Layout to remove the camera live view.
Save As Layout	<p>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#</p> <div data-bbox="613 886 1211 1247" data-label="Image"> </div> <p>Note: It supports saving Client-side Dewarping mode of Fisheye model and stream information to the layout on Live View and Playback interface.</p> <div data-bbox="613 1360 1312 1791" data-label="Image"> </div>

Item	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:

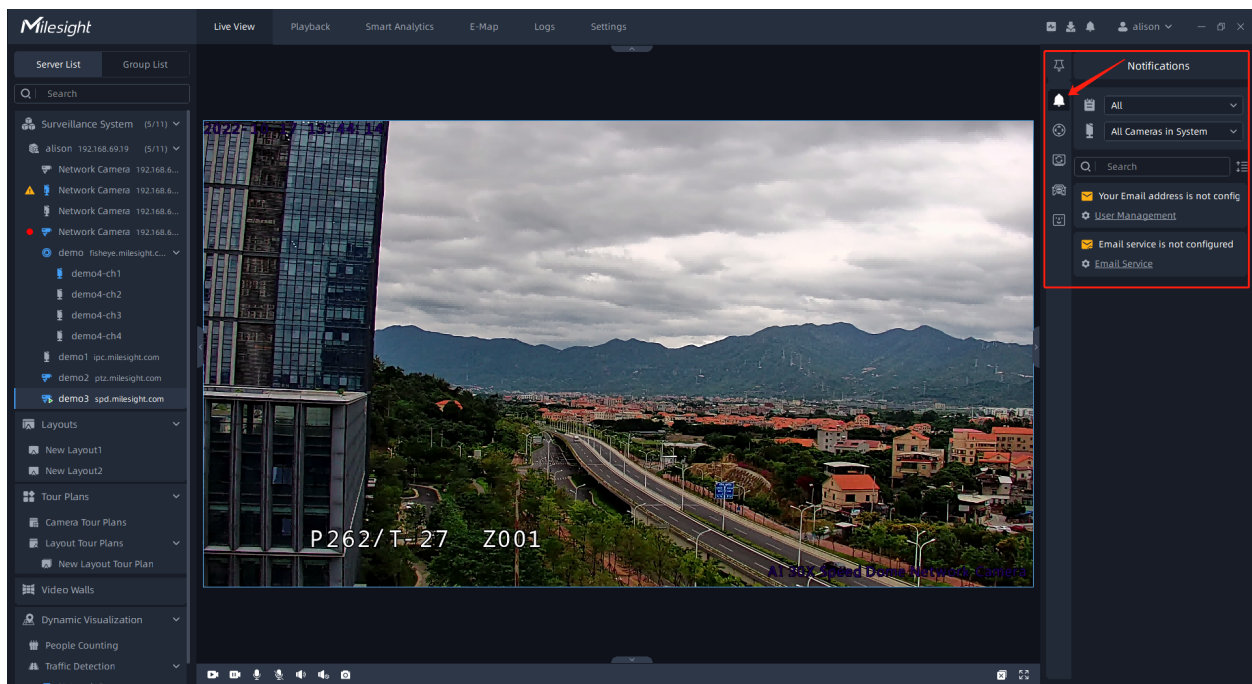
Table 44.

Item	Function Introduction
	Start/Stop Recording for All.
	Start/Stop Talking for All.
	Turn on/Mute All Speakers.
	Snapshot for All.
	Close All.
	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:

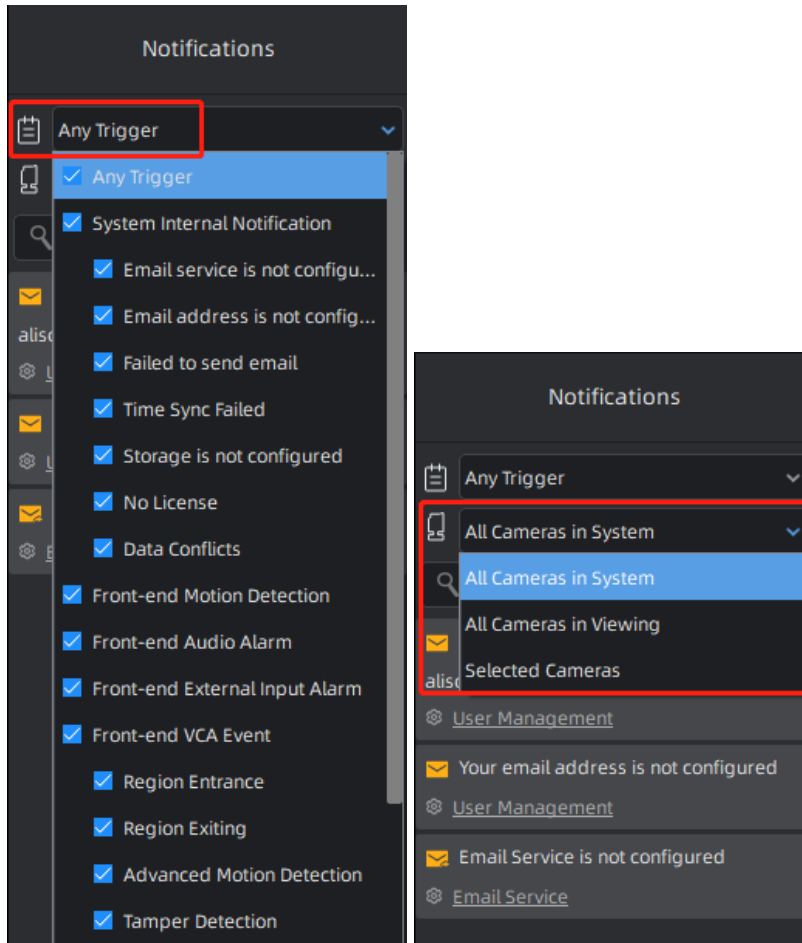


System Notification: If the system Email service, Email address or Storage are not configured, etc, then the notifications will be automatically pushed and shown in the Notification panel according to system detecting rules.

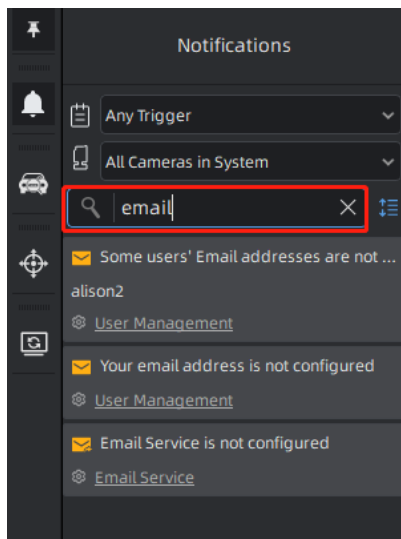
Event Rule Notification: You can refer to the table of [Event Rule Settings \(page 170\)](#) to set event rule and choose Show Notification in Action configuration options. When the event is triggered, the event notification will be pushed to the Notification panel.

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:

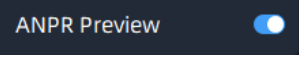


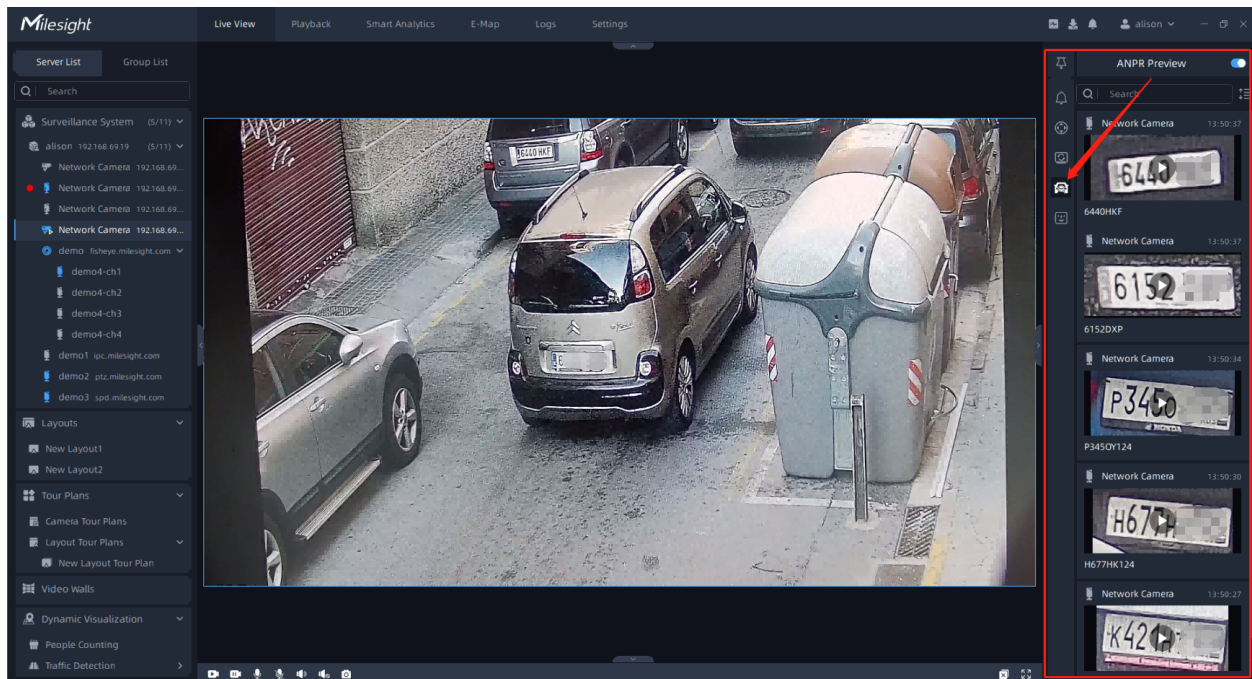
- Search for notification:



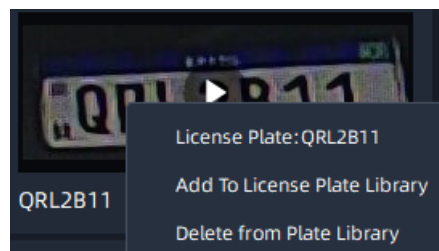
4.3.2 ANPR Preview

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

Only when you click the  icon, you will receive a message about ANPR in the panel, the preview page is as below:

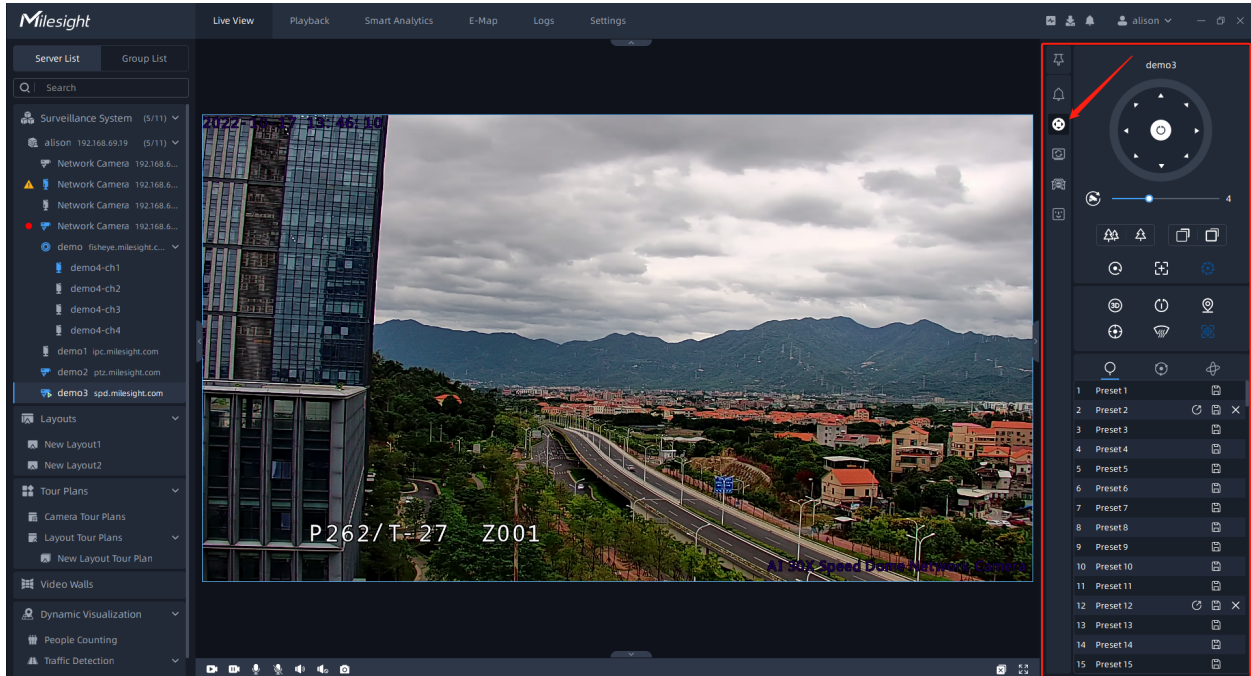


You can right click on the ANPR notification push window to pop up a menu as below, and choose to add the license plate to White or Black List in the VMS system. If the license plate has already existed in the White or Black List of VMS system, then you can choose to change its type as you want. You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




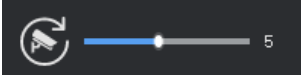



4.3.3 PTZ Control









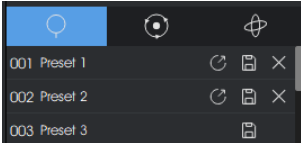



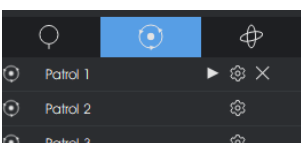


Users can remotely pan/tilt/zoom the camera by operating the PTZ Control panel. It can zoom in on far distant objects with exceptional clarity. You can also easily track objects with high precision by using a mouse or joystick.


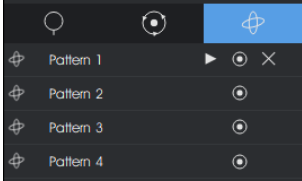





The meanings of the items can be referred to the table below:

Table 45.

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

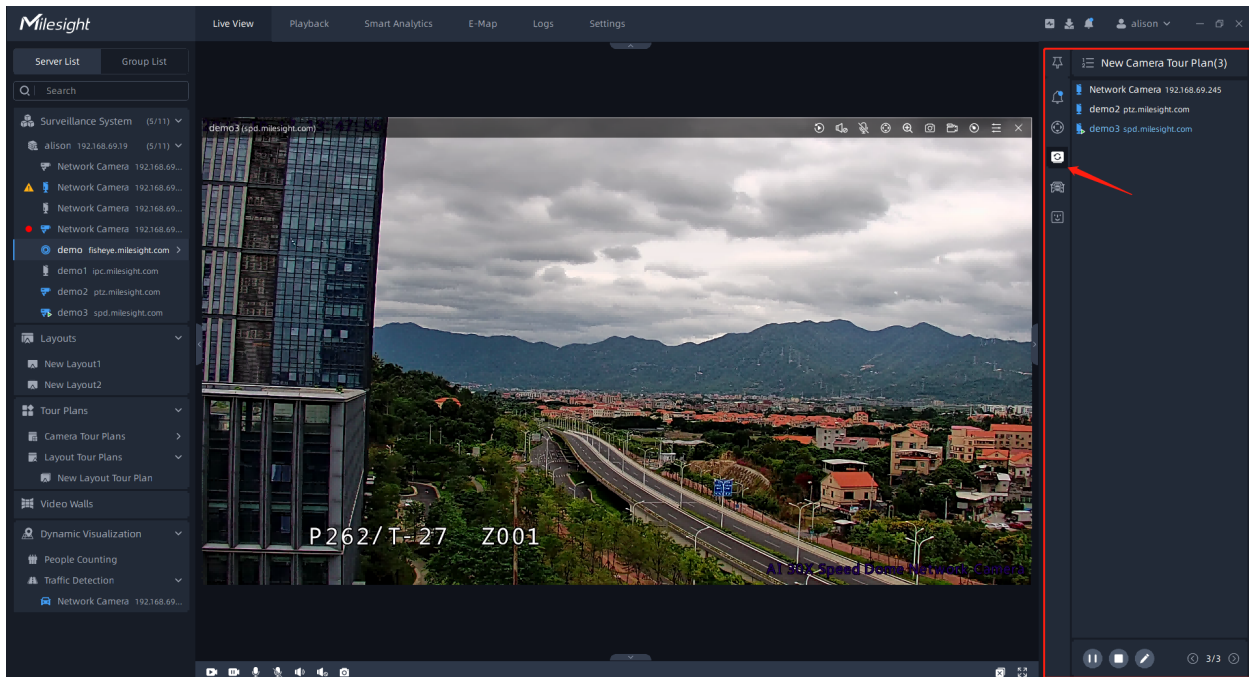
Item	Description											
	<p>Lighting For 30s: Click to open/close the White LED for lighting 30s.</p>											
	<p>3D Positioning: Click to enable/disable 3D positioning.</p>											
	<p>One-touch Patrol: Click to carry out the patrol.</p>											
	<p>Auto Home: Click to enable Auto Home.</p>											
	<p>Manual Tracking: Click to track the moving objects.</p>											
	<p>Dehumidifying: Defog.</p>											
	<p>Auto Tracking: With this option enabled, the camera can perform the digital Pan/Tilt/Zoom to track the moving objects automatically.</p> <p> Note:</p> <ul style="list-style-type: none"> • Auto Tracking is only supported in regional views. • Auto Tracking is only supported in ceiling mounting mode of on-board dewarping mode. 											
	<p> Call the preset.</p>											
	<p> Save the setting of the current preset.</p>											
	<p> Delete the preset.</p>											
	<p> Play the patrol.</p>											
	<p>Click the  button to set the patrol according to the page as shown below:</p> <table border="1" data-bbox="548 1692 943 1860"> <thead> <tr> <th>No.</th> <th>Preset</th> <th>Speed</th> <th>Time(s)</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>Preset 1</td> <td>30</td> <td>10</td> </tr> <tr> <td>002</td> <td>Preset 2</td> <td>30</td> <td>10</td> </tr> </tbody> </table>	No.	Preset	Speed	Time(s)	001	Preset 1	30	10	002	Preset 2	30
No.	Preset	Speed	Time(s)									
001	Preset 1	30	10									
002	Preset 2	30	10									

Item	Description
	 Delete the patrol.
	 Play the pattern.
	 Click to start recording for the pattern, and click again to stop.
	 Delete the pattern.

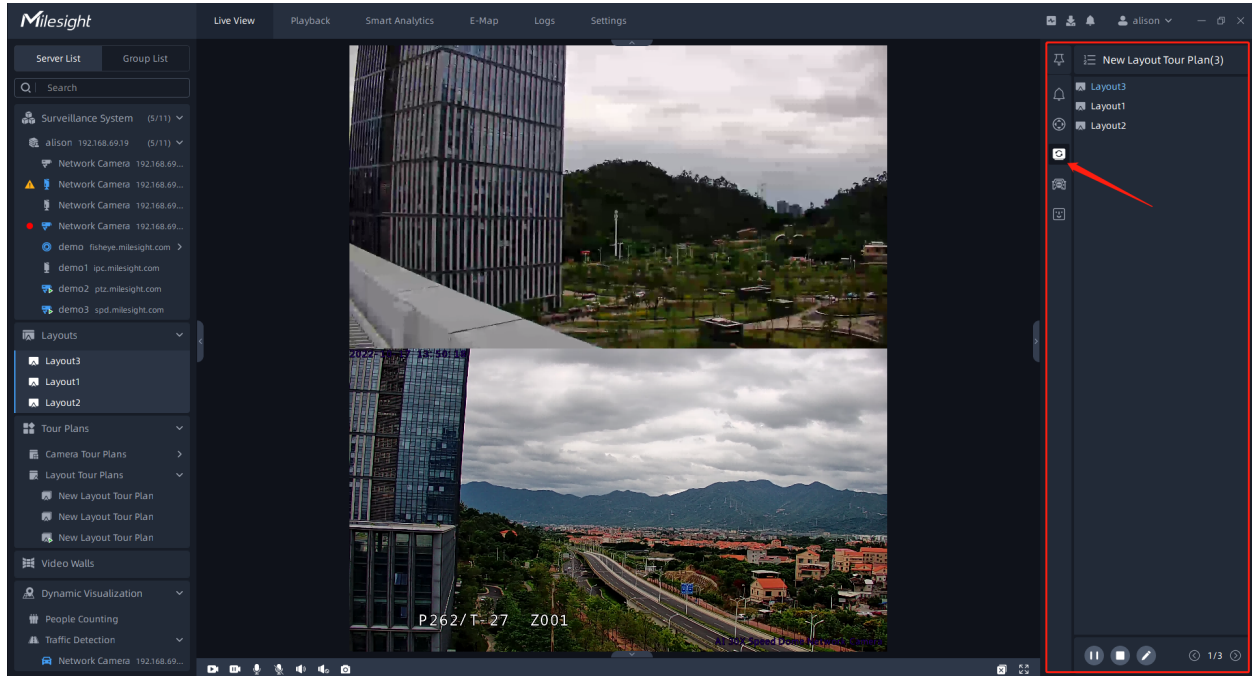
4.3.4 Tour List

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:


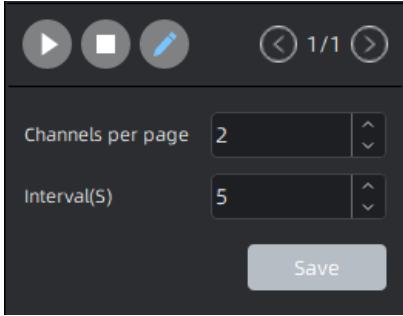
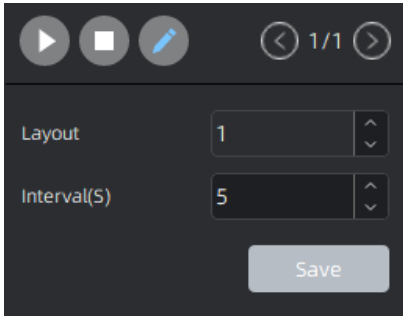







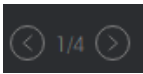


- Layout Tour:



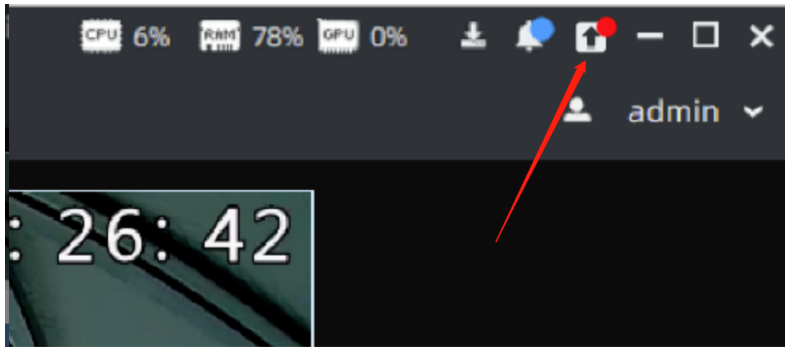
The meanings of the items can be referred to the table below:

Table 46.

Item	Description
	<p>Click the button to edit the tour plan.</p> <ul style="list-style-type: none"> • Camera Tour Plans:  <ul style="list-style-type: none"> • Layout Tour Plans:  <p>Channels per page: Set the number of channels displayed on each page.</p> <p>Layout: The number of layouts displayed on each page.</p> <p>Intervals: Set the tour time for each page in the list.</p> <p> Note: Users can adjust the order of the tour list by dragging the camera when editing the tour plan.</p>
	<p>Remove camera in the tour list.</p>
	<p>Click the button to start tour. Then the cameras in the Cameras Tour List will start touring according to your tour time setting.</p>
	<p>Click the button to pause the current tour.</p>

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

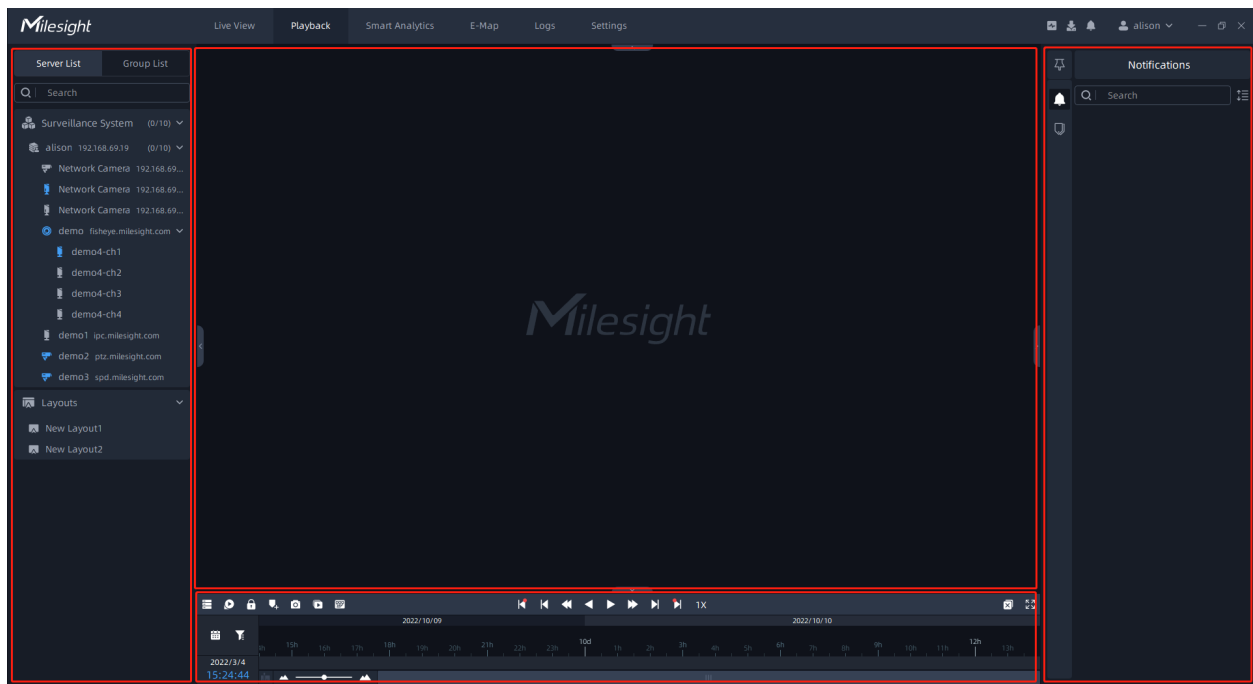
 **Note:** If there is a new version available for upgrade, there will be an alert in the upper right corner of the client. If it is already the latest version, the icon will not appear.



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 [Right Panel of Playback \(page 276\)](#).

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  button.

Note:

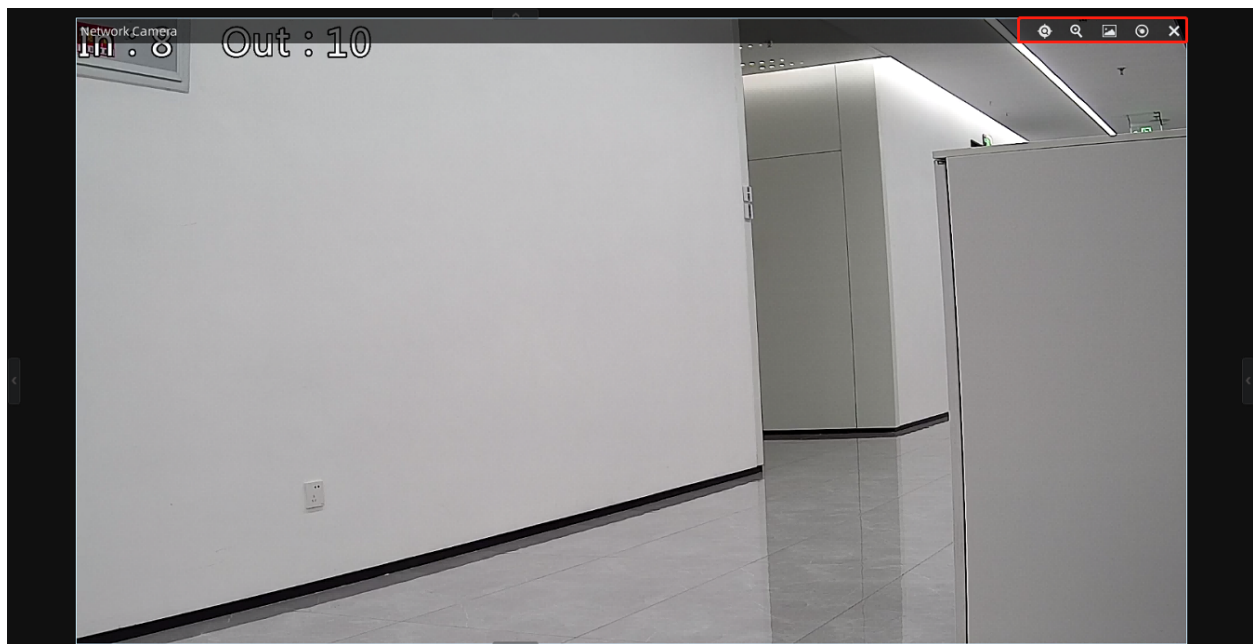
- The  icon in the front of camera means the recording video of camera is available.

- 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 calendar 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:


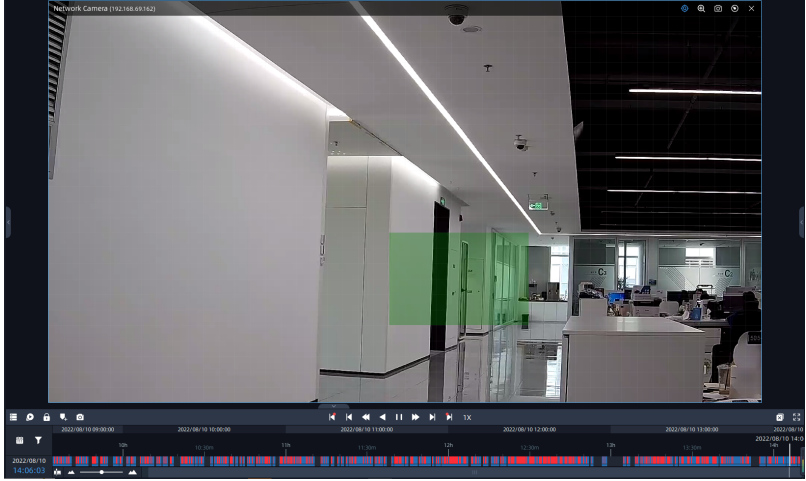





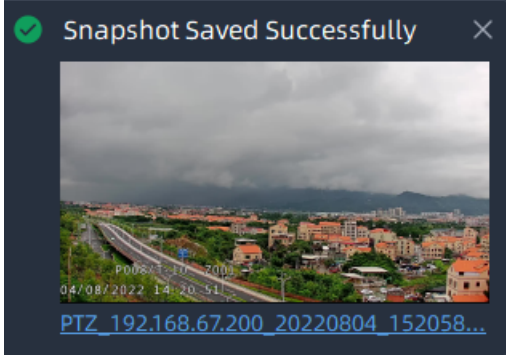

















- **The toolbar of Playback window:**



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

Table 47.

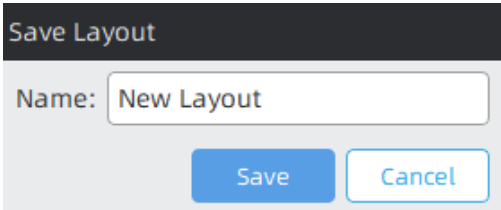
Icon	Function Introduction
	<p>Click and draw an area on the screen to search the motion detection events. The search results will be displayed in red on the timeline.</p> 
	<p>Click to turn on Speaker, and you can adjust the volume of the speaker from 1~100.</p> <p> Note: This item is available only for cameras which support speaker</p>
	<p>Click to enable digital zoom</p> <p> Note: The digital zoom can't be used with PTZ 3D Positioning at the same time.</p>
	<p>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.</p> 

Icon	Function Introduction	
	<div style="display: flex; align-items: center;">  Enable Dewarping. </div> <div style="display: flex; align-items: center;">  Select ceiling mounting mode. </div> <div style="display: flex; align-items: center;">  Select wall mounting mode. </div> <div style="display: flex; align-items: center;">  Select flat mounting mode. </div> <div style="display: flex; align-items: center;">  Select live view of original fisheye view. </div> <div style="display: flex; align-items: center;">  Select live view of 360° panoramic view. </div> <div style="display: flex; align-items: center;">  Select live view of two 180° panoramic views. </div> <div style="display: flex; align-items: center;">  Select live view of four regional views. </div> <div style="display: flex; align-items: center;">  Select live view of one original fisheye view and three regional views. </div> <div style="display: flex; align-items: center;">  Select live view of one 360° panoramic view and one regional view. </div> <div style="display: flex; align-items: center;">  Select live view of one 360° panoramic view and four regional views. </div> <div style="display: flex; align-items: center;">  Select live view of one 360° panoramic view and six regional views. </div> <div style="display: flex; align-items: center;">  Select live view of one original fisheye view and eight regional views. </div>	
		Stop playing the Live View

• **The right-click menu of Playback window:**

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

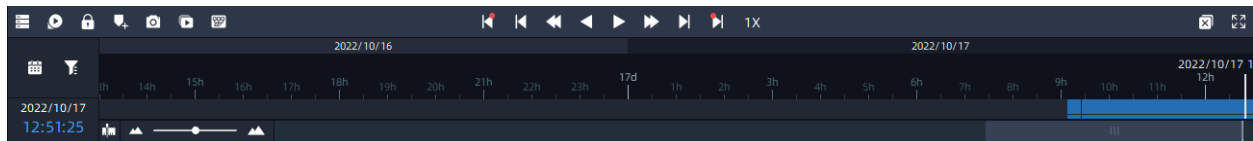
Table 48.

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 Split Playback (page 262) .
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	<p>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#</p> 
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



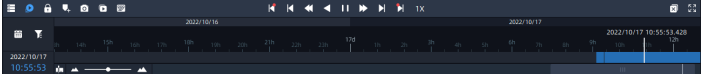
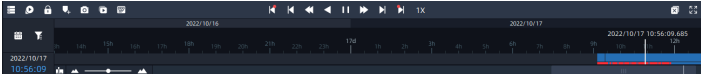

5.2.1 Video Playback Tool Bar Description


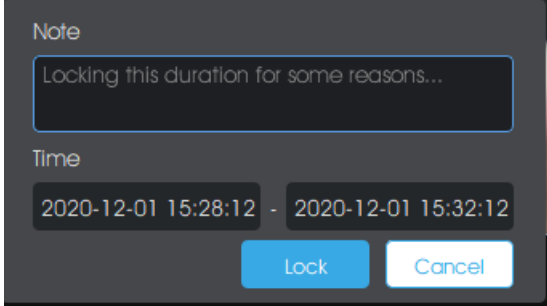

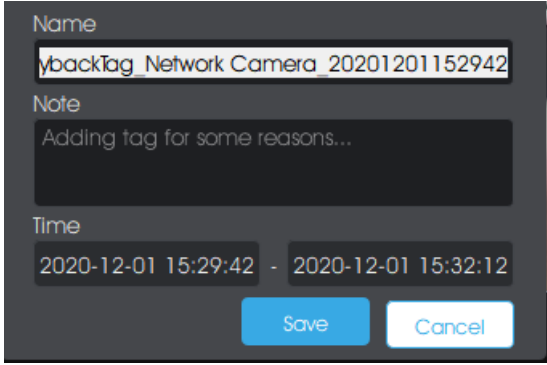




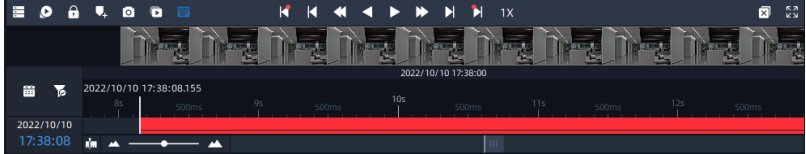


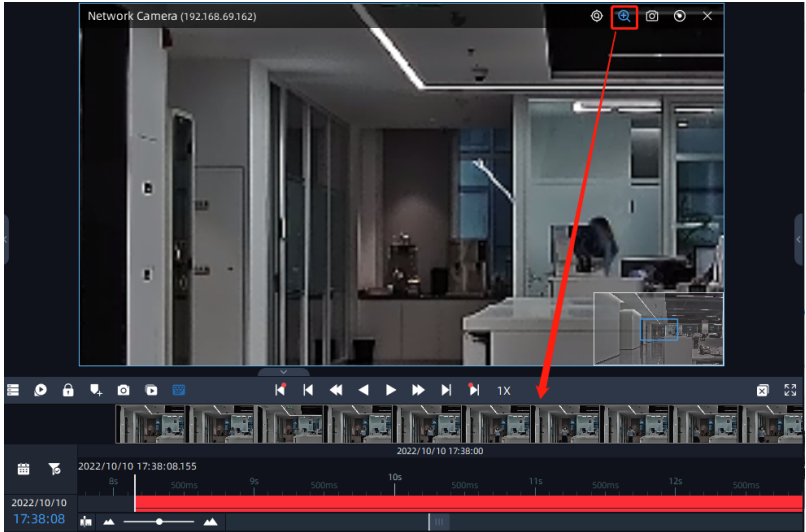
The meanings of the items can be referred to the table below:


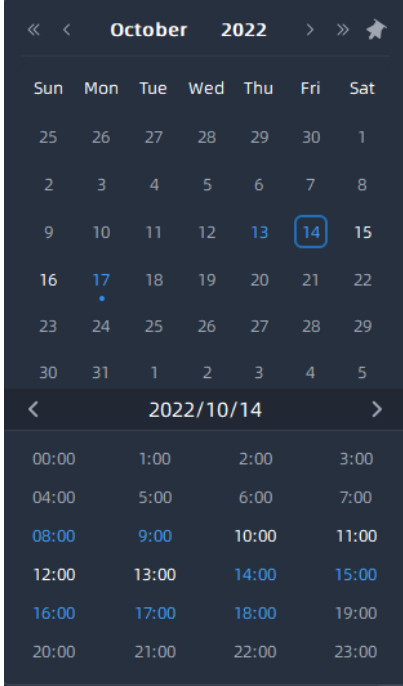
Table 49.



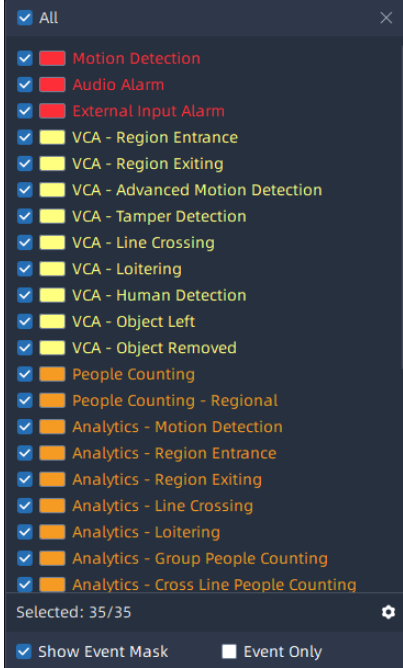

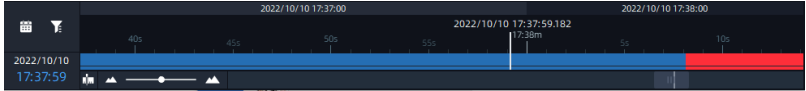
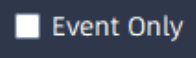
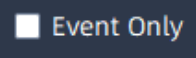
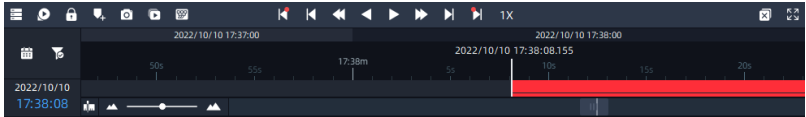
Icon	Description
	Archive Management, more details can refer to Archive Management (page 264) .



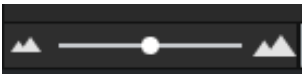




Icon	Description
	<p>Asynchronous Playing or Synchronous Playing switch button</p> <p>You can click  button to switch to Asynchronous Playing or Synchronous Playing. The timeline will change as shown below once switching to different playing modes;</p> <p>Asynchronous Playing: The timeline only represents the recorded videos of selected channel.</p>  <p>Synchronous Playing: Choose Synchronous Playing to playback the recorded videos of all channels in the center playback panel at the same time.</p>  <p>Note:</p> <ul style="list-style-type: none"> • When you use Synchronous mode to play, the thick bar at the top of the timeline represents the video files of current selected camera. The thin bar at the bottom 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. 




Icon	Description
	<p>Lock video file for selected cameras, you can set locked time duration and reasons as below:</p> 
	<p>Add Tags for selected cameras, you can set tag name, reasons and time duration as shown below:</p> 
	<p>Snapshot for all</p>

Icon	Description
	<p>Click this button to show thumbnail of the corresponding time as shown below.</p>  <p>You can click  button to enter a more detailed time interval to check the details, which can be used for Smart Forensic.</p>  <p>Note: When you enable Digital Zoom, the thumbnails will zoom in or out in synchronization with the image.</p> 

Icon	Description
	<p>Choose date to search recorded videos of camera, the page is as below:</p> 

Icon	Description
	<p>Click  to show the event mask popup window.</p>  <p>Check the  option to display the color of the event on the timeline, and then the user can check event type to be shown on the timeline, the timeline will show different colors according to selected event type as below:</p>  <p> Note: The user can also check  to show only event video file on the timeline.</p> 

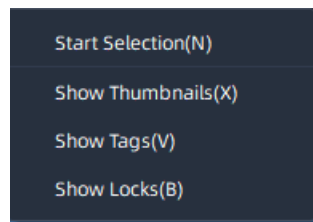
Icon	Description
	<p>Click the  button to enter Event Mask Colors Setting interface, it supports customizing different colors for different events according to the user's requirement.</p>  <p>And you can use the mouse to drag the corresponding event to adjust its order. When the time of multiple events overlaps, the color of the event with the highest order will be displayed first on the timeline.</p>
	<p>Drag to zoom in/out timeline.</p>
	<p>Play previous or next event video.</p>
	<p>Play previous or next frame of video.</p>
	<p>Adjust the speed of video playback.</p> <p>Speed Down: Includes 32X, 16X, 8X, 4X, 2X, 1X, 1/2, 1/4, 1/8, 1/16 and 1/32 for Play or Rewind.</p> <p>Speed Up: Includes 1/32, 1/16, 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X and 32X for Play or Rewind.</p>
	<p>Rewind or Play the video.</p>

Icon	Description
	Pause the video.
	Close all Views.
	Full Screen.

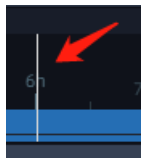
5.2.2 Settings Menu on the Timeline

You can directly drag the mouse to select a period of time on the timeline or refer to the steps as below to select.

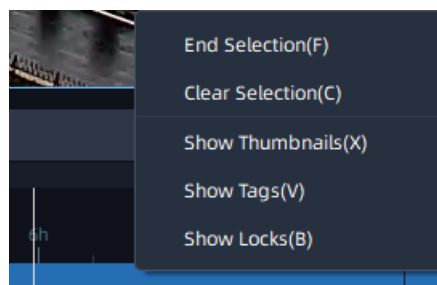
Step1: Right-click the the timeline and a menu window will pop up as below:



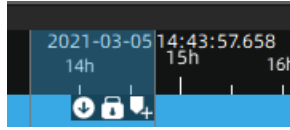
Step2:Select the Start Selection and a vertical line will show on the position of right-clicking timeline as below:



Step3:Move the mouse to another position of the timeline and right-click again, a menu show as below:

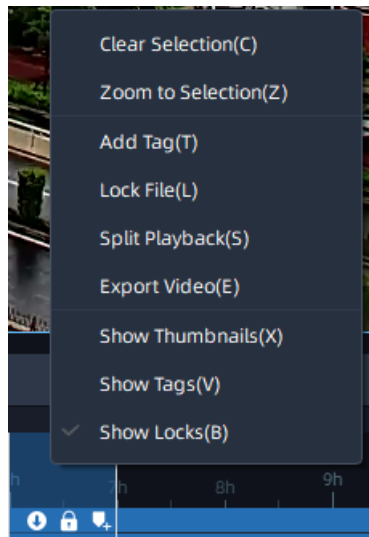


Step4:Click the End Selection and the selected time show as below:



You can export video, lock file, and add tag directly on the timeline.


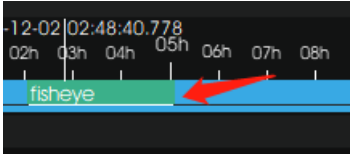
Step5:Right click the timeline, a menu show as below:

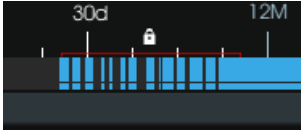


The meanings of the menu on timeline can be referred to the table below:

Table 50.

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.
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.

Item	Function Introduction
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 266) .
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	<p>Show thumbnail of the corresponding time. Users can also resize the thumbnail timeline as needed.</p> 
Show Tags	<p>After setting the tags, you can choose the option to show the tag on the timeline as below:</p> 

Item	Function Introduction
<p>Show Locks</p>	<p>After setting the lock files, you can choose the option to show the lock file on the timeline as below:</p> 

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 right-click 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

Type

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

Cancel

- Specific Number setting page:

Split Playback

Camera
Camera3 192.168.201.11

Type
 Time Period Specific Number

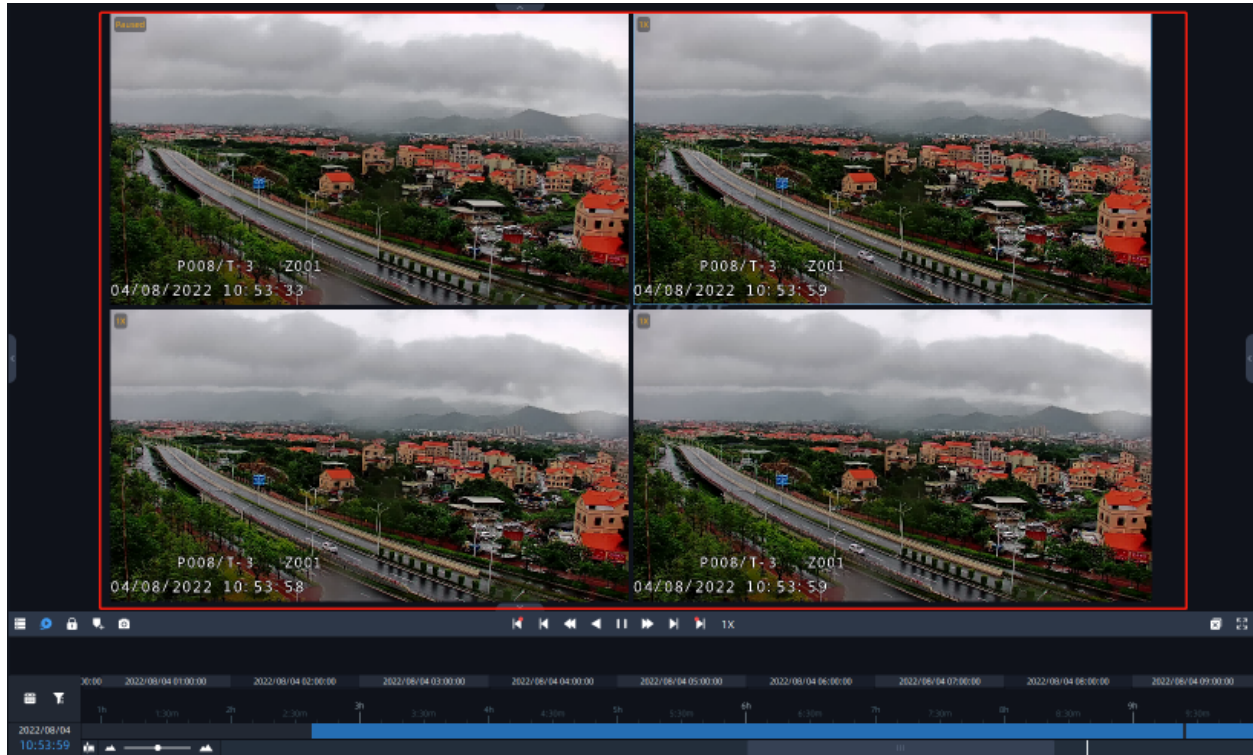
Channels
4

Time
2022/08/04 00:00:00 - 2022/08/04 10:06:42
Start Time Interval: 2h : 31m : 40s

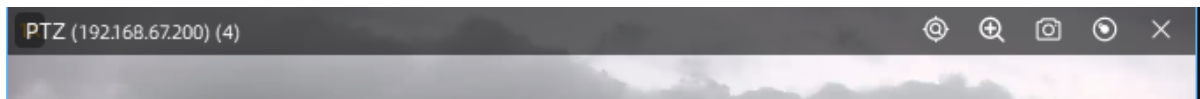
Add Cancel

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#

The screenshot shows the 'Archive Management' window. At the top, there are filters for 'All Tags' and 'Create Time' (2022/07/29 00:00:00 - 2022/08/04 23:59:59). Below the filters is a table with the following columns: Name, Device Name, Address, Start Time, End Time, Create Time, Note, and Delete. The table contains 11 rows of data. At the bottom, there is a status bar showing 'Selected: 0/10' and buttons for 'Delete' and 'Export'.

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 ...		
PlaybackTag_Cam...	Camera4	192.168.201.11	2022/08/04 ...	2022/08/04 ...	2022/08/04 ...		
abc	Camera4	192.168.201.11	2022/08/04 ...	2022/08/04 ...	2022/08/04 ...		
2	Camera4	192.168.201.11	2022/08/04 ...	2022/08/04 ...	2022/08/04 ...		
1	Camera4	192.168.201.11	2022/08/04 ...	2022/08/04 ...	2022/08/04 ...		
PlaybackTag_Cam...	Camera4	192.168.201.11	2022/08/04 ...	2022/08/04 ...	2022/08/04 ...		
PlaybackTag_Cam...	Camera4	192.168.201.11	2022/08/04 ...	2022/08/04 ...	2022/08/04 ...		
PlaybackTag_Cam...	Camera4	192.168.201.11	2022/08/04 ...	2022/08/04 ...	2022/08/04 ...		
take a break	Camera3	192.168.201.11	2022/08/03 ...	2022/08/03 ...	2022/08/03 ...		
1	PTZ	192.168.67.200	2022/08/03 ...	2022/08/03 ...	2022/08/03 ...		

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 \(page 266\)](#).

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.

The screenshot shows the 'Archive Management' window. At the top, there are icons for a shield, a folder, and a refresh button. Below these is a 'Lock Duration' filter set to '2022/07/29 00:00:00 - 2022/08/04 23:59:59' with 'Search' and 'Reset' buttons. A search bar is also present. The main area contains a table with the following data:

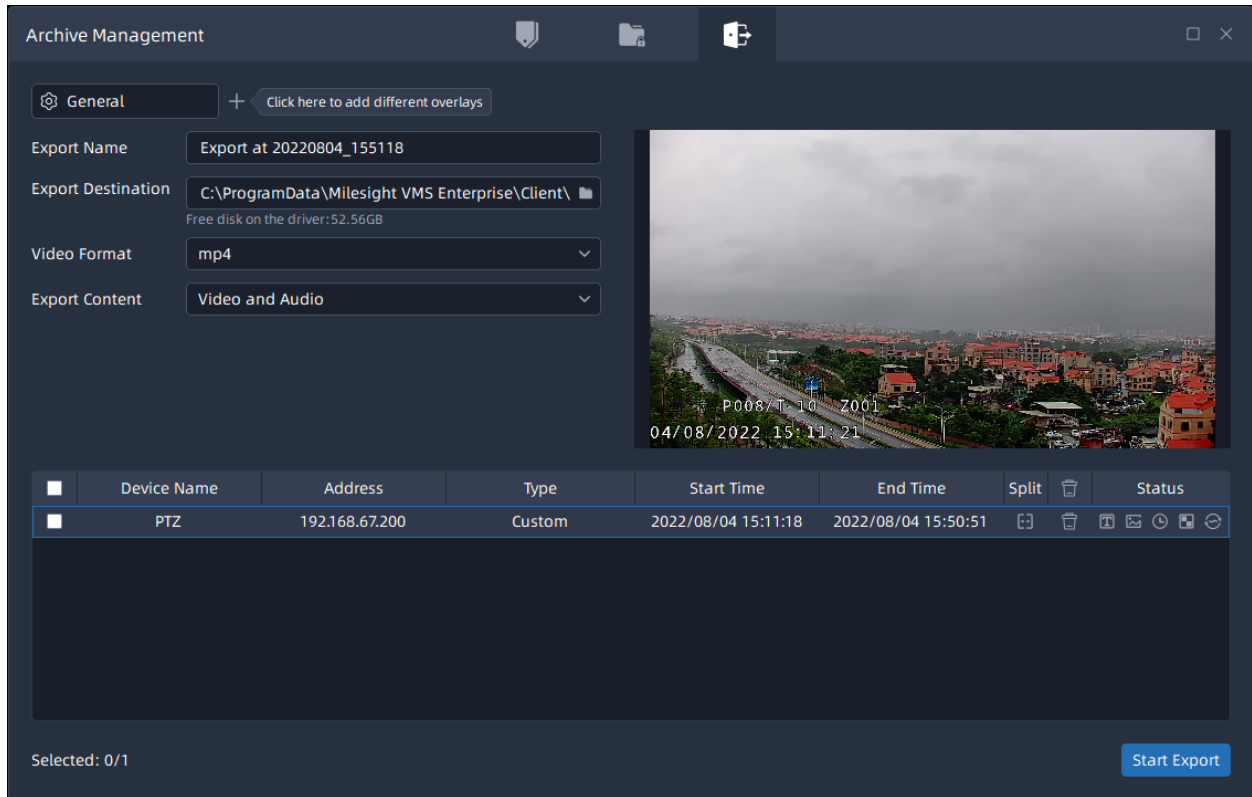
Device Name	Address	Start Time	End Time	Locked File Size	Occupied Space	Note	UnLock
Camera3	192.168.201.11	2022/08/03 ...	2022/08/03 ...	120.91MB	1.00GB	personal issues	🔒
PTZ	192.168.67.200	2022/08/03 ...	2022/08/03 ...	897.50KB	1.00GB	1	🔒

At the bottom left, it says 'Selected: 0/2'. At the bottom right, there are 'Unlock' and 'Export' buttons.

If you want to export the selected locked files, please refer to [Export \(page 266\)](#) for more details.

5.4.3 Export

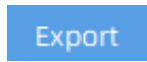
The Export allows user to customize some basic or advanced settings for selected files which will be exported. The page is as below:



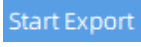

Export steps are listed as below:

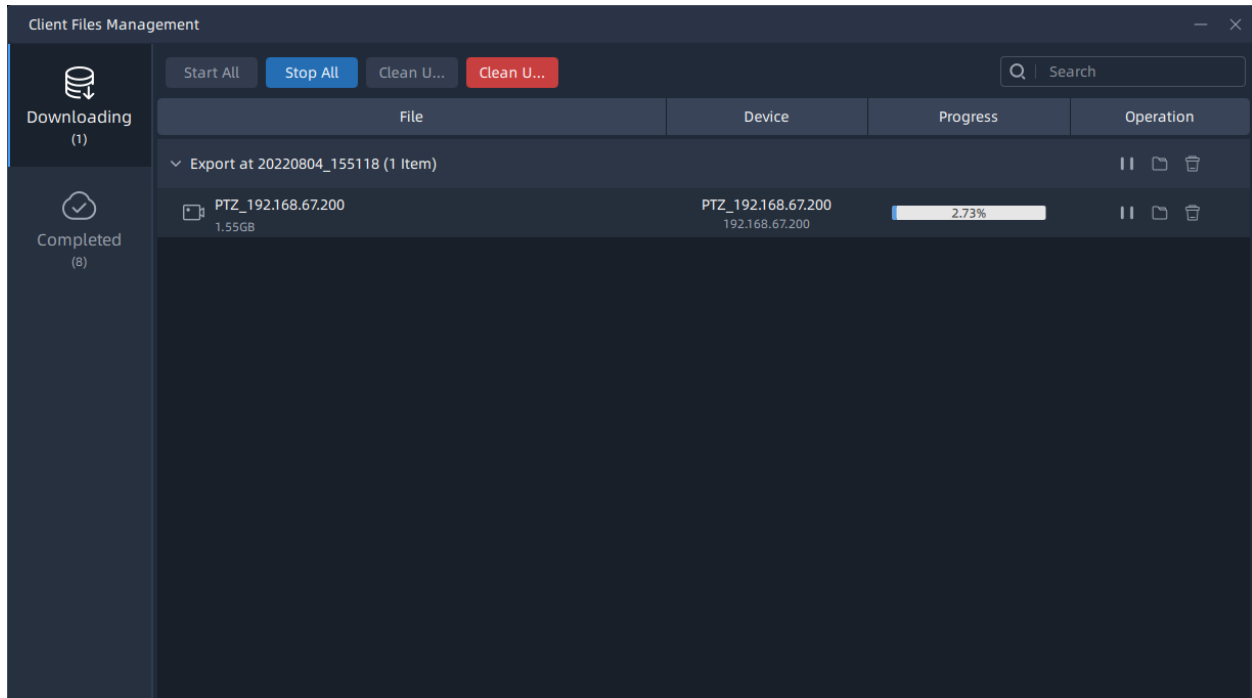
Step1: Select video which will be exported. You can select video through two ways:



(1) Select the files in the Tags or Locked Files page of the Archive Management window and click

 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  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 \(page 29\)](#).



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:

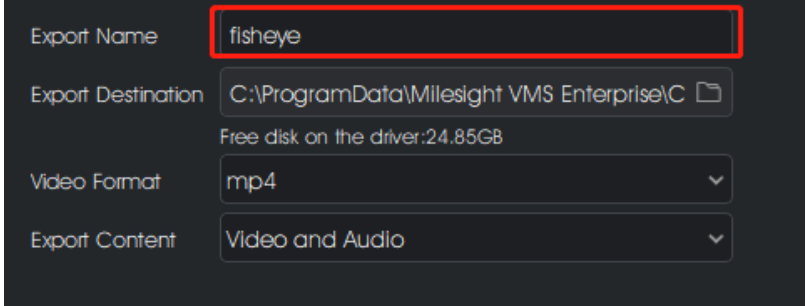
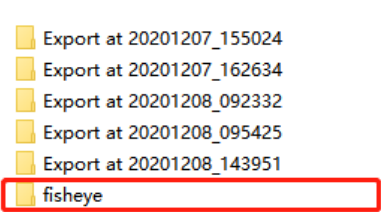

- **General**


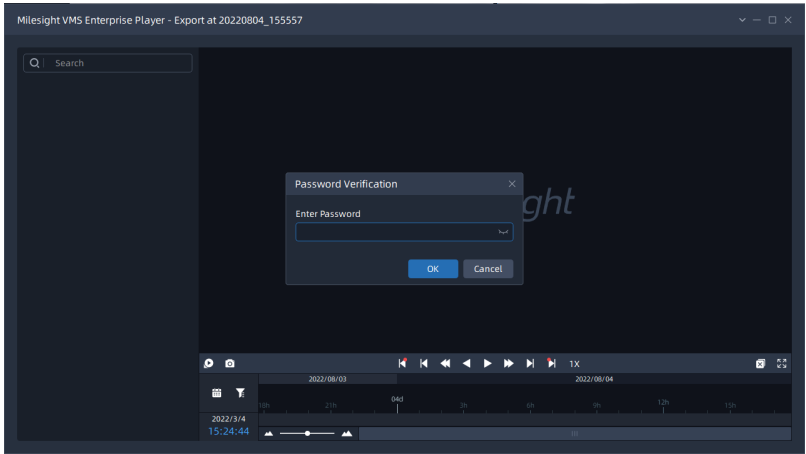

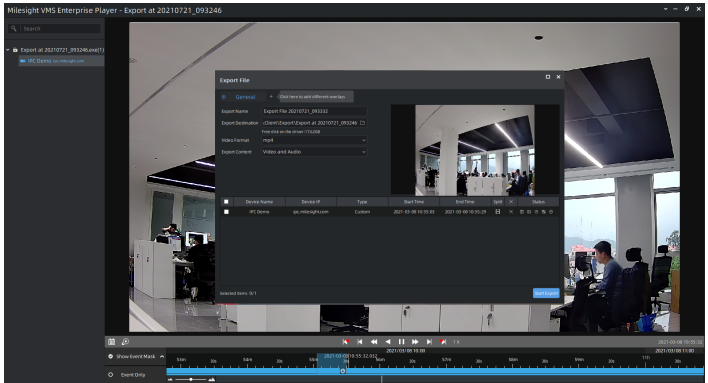
The page is as below:

Export Name	Export at 20201208_094508
Export Destination	C:\ProgramData\Milesight VMS Enterprise\C  Free disk on the driver:25.13GB
Video Format	mp4 
Export Content	Video and Audio 

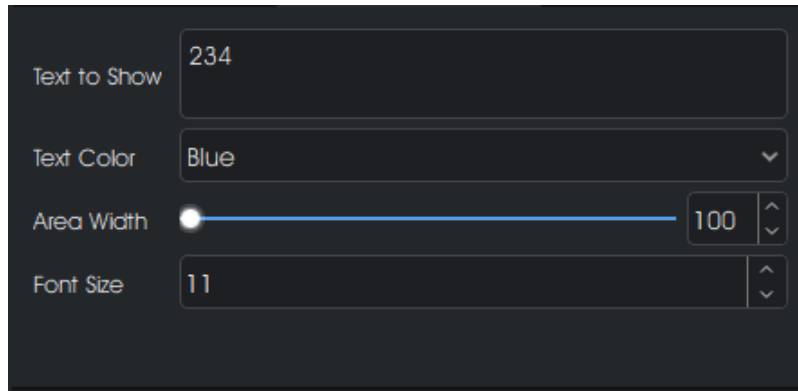
The meanings of the items can be referred to the table below:

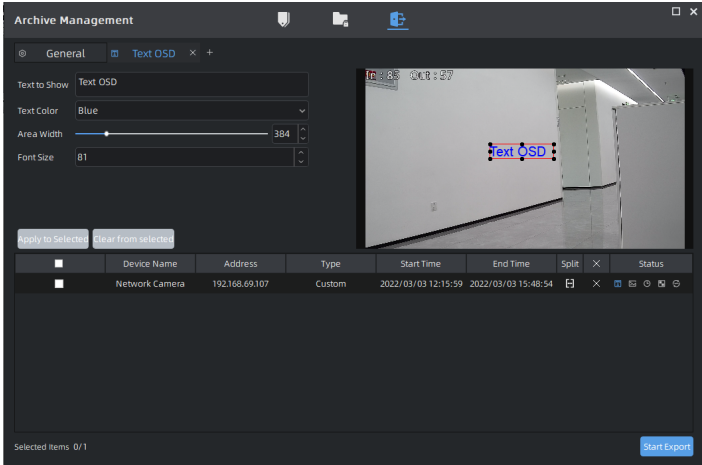
Table 51.

Item	Function Introduction
<p>Export Name</p>	<p>Name the exported file name as shown below:</p>  <p>After setting the items and finishing the export of video file, you can see the customized exported files name as shown below in the local storage.</p> 
<p>Export Destination</p>	<p>Click  button to select storage path of exported files.</p>
<p>Video Format</p>	<p>The avi, mp4, exe, mkv, and asf formats are supported.</p>

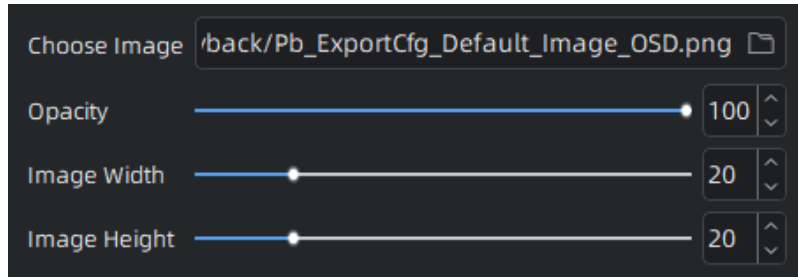
Item	Function Introduction
<p>Password</p>	<p>Set password for exported video.</p> <p> Note: This option is available just for exe format.</p> <p>After setting, you need to enter the password when playing the exported video.</p> 
<p>Re-export</p>	<p>Set whether the exported video can be exported again.</p> <p> Note: This option is available just for exe format.</p> 
<p>Export Content</p>	<p>The video, Audio, Video and Audio are supported.</p>

- Text OSD

**Table 52.**

Item	Function Introduction
Text to Show	<p>After setting the items, you can see the real-time added text information showed on the thumbnail window as below:</p> 
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 53.

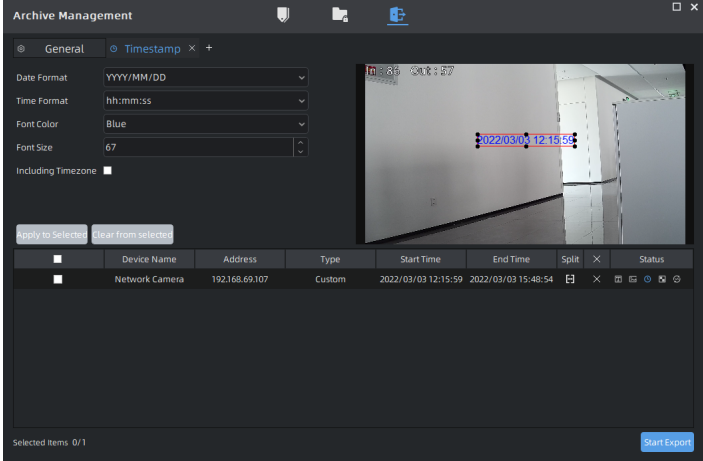
Item	Function Introduction
<p>Choose Image</p>	<p>You can choose image saved in local storage to be added to the video file.</p> <p>After setting the items, you can see the customized image as shown below on the thumbnail.</p>
<p>Opacity</p>	<p>Choose opacity of image added in the video from 100 to 1920.</p>
<p>Image Width</p>	<p>Adjust width of image added in the video from 0-100.</p>
<p>Image Height</p>	<p>Adjust height of image added in the video from 0-100.</p>

- **Timestamp**

Date Format	YYYY-MM-DD
Time Format	hh:mm:ss
Font Color	White
Font Size	50
Including Timezone	<input type="checkbox"/>

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

Table 54.

Item	Function Introduction
<p>Date Format</p>	<p>Date format, including YYYY-MM-DD, MM/DD/YYYY and DD/MM/YYYY.</p> <p>After setting the items, you can see the customized timestamp as shown below on the thumbnail.</p> 
<p>Time Format</p>	<p>Time format, including hh:mm:ss and hh:mm:ss AP.</p>
<p>Font Color</p>	<p>The White, Black, Blue, Yellow, Green and Brown are available.</p>
<p>Font Size</p>	<p>Adjust size of font from 10-400.</p>
<p>Including Timezone</p>	<p>Check the checkbox to make the display information include timezone.</p>

- **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

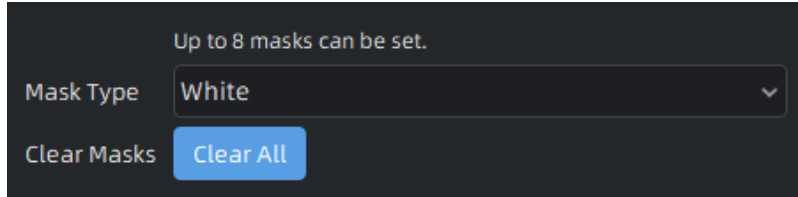
The meanings of the items can be referred to the table below:

Table 55.

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.

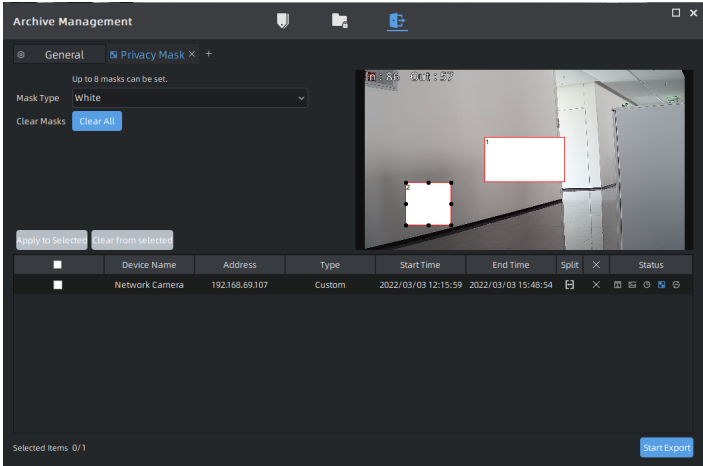
Item	Function Introduction
Frame Rate	Frame Rate of the exported video, including Original and these options from 1-25fps.

• Privacy Mask



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

Table 56.

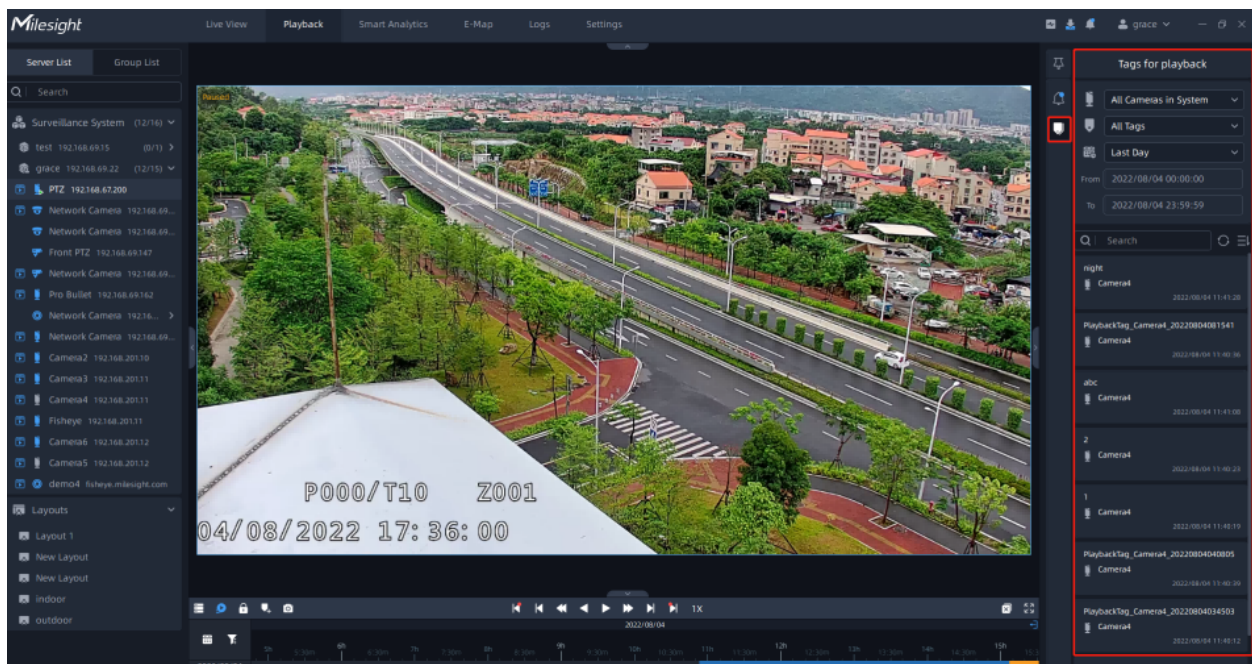
Item	Function Introduction
Mask Type	<p>Set colors of privacy masks, including White, Black, Blue, Yellow, Green and Brown. After choosing the mask type, you can drag left key of mouse to draw the mask area on the thumbnail as below:</p>  <p>Note: Up to 8 masks can be set.</p>
Clear Masks	Click the Export 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 [Notification \(page 238\)](#).

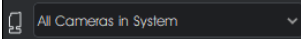
5.5.1 Tags for playback

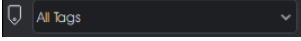




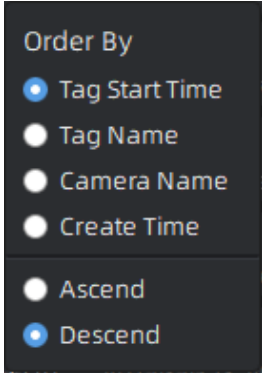
All added tags will be displayed on the panel and you can double click the tags to view the playback video. If there are too many tags on the panel, you can search desired tags through filtering conditions as below:



The meanings of the icon of the page can refer to the table below:

Table 57.

Item	Function Introduction
 <p>Source Cameras</p>	<p>All Cameras in System: Select all cameras inside VMS system.</p> <p>All Cameras in Viewing: Select all cameras of the current playback window.</p> <p>Selected Cameras: Select selected cameras in the current playback window.</p>

Item	Function Introduction
 <p>Tag Type</p>	<p>All Tags: All types of tags.</p> <p>Live Tags: Tag files added in the live view window.</p> <p>Playback Tags: Tag files added in the playback window.</p> <p>Event Tags: Tag files added by event trigger.</p>
 <p>Time Period</p>	<p>No limit, Last Day, Last Week, Last Month and Customize are available.</p> <p> Note: The customized “To” time can't exceed the current system time.</p>
	<p>Refresh the results.</p>
 <p>Sort Button</p>	<p>Choose sort way of tag video files in the list as shown below:</p> <p>The default Tag files list are ordered by Tag Time and Descend.</p> 

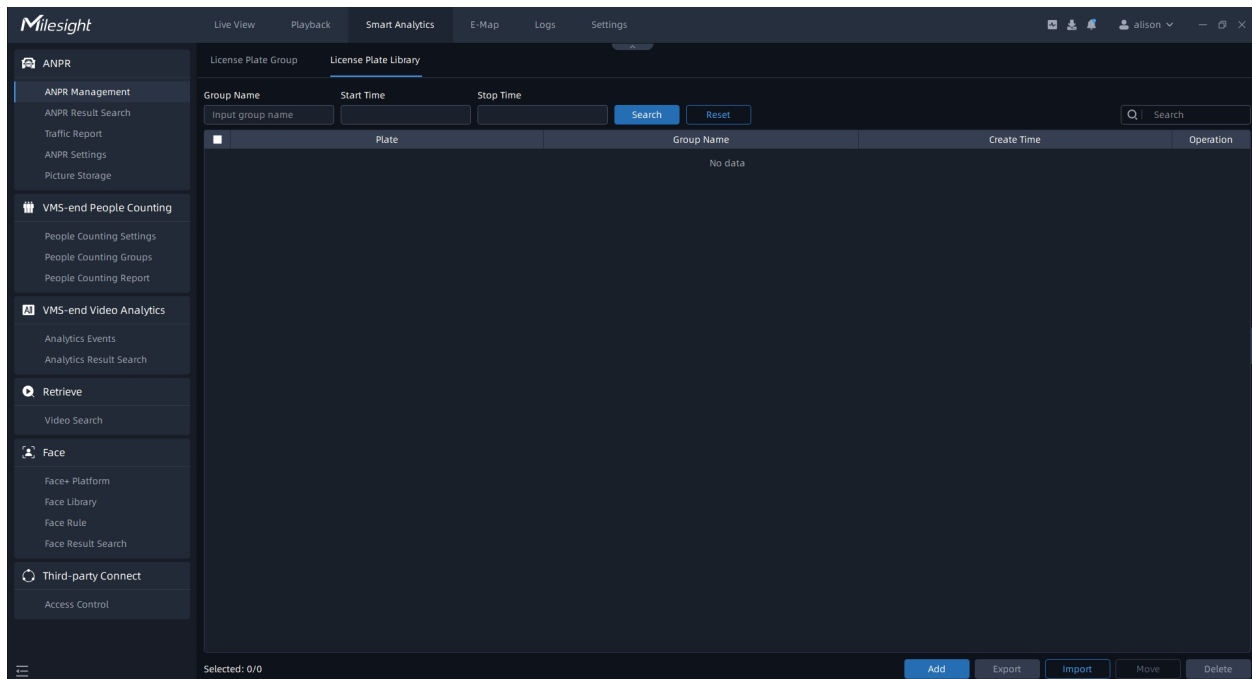
Chapter 6. Smart Analytics

6.1 ANPR

6.1.1 ANPR Management


License Plate Library


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.



You can choose either of the below two ways to add license plates.


(1) Add License Plate One by One




Step1: click  button to pop up a Add Plate window as below:

Step2: Input license plate and choose a group for the license plate, and click  button;

Step3: Repeat the Step1-2 to add other license plates manually.

(2) Batch Import License Plate

Step1: Click  button to pop up a window as shown below:

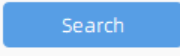
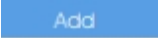

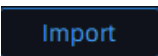



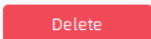
Step2: The imported file must be filled in according to the specified format. You can click  to download the template. After filling in, click  button to import a plates file, then click  button.

 **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.

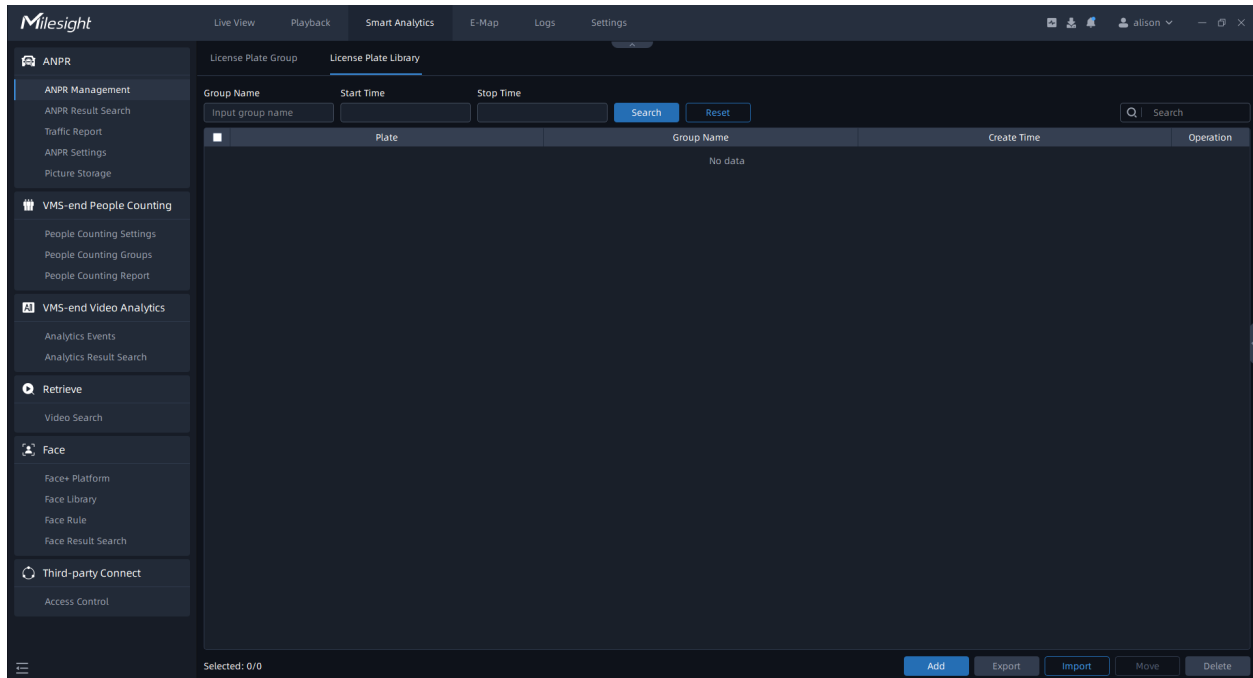
The meanings of the parameters in the interface can be referred to the table below:

Table 58.

Parameter	Function Introduction
	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.
	Enter the license plate and choose a group for the license plate, click the "Add" button, the license plate will be added successfully.
	Click the "Export List" button to export the license plates in the current list to a csv form locally.
	<p>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.</p> <p> Note: You can first download the template as a reference in this interface.</p>
	Select the camera, click the "move" button to move it to the corresponding group.
	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.



(1) Add License Plate Group One by One

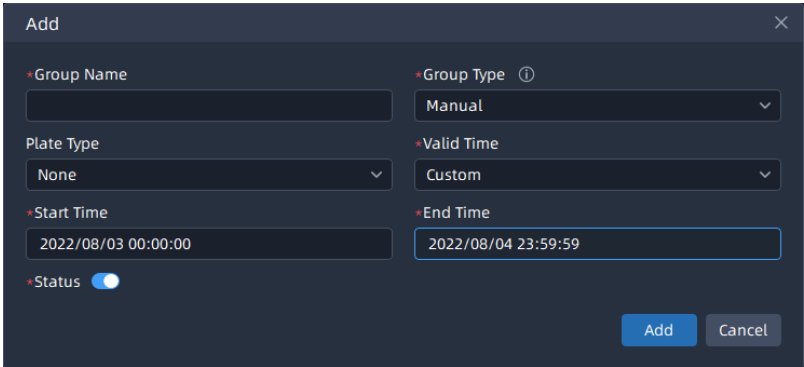
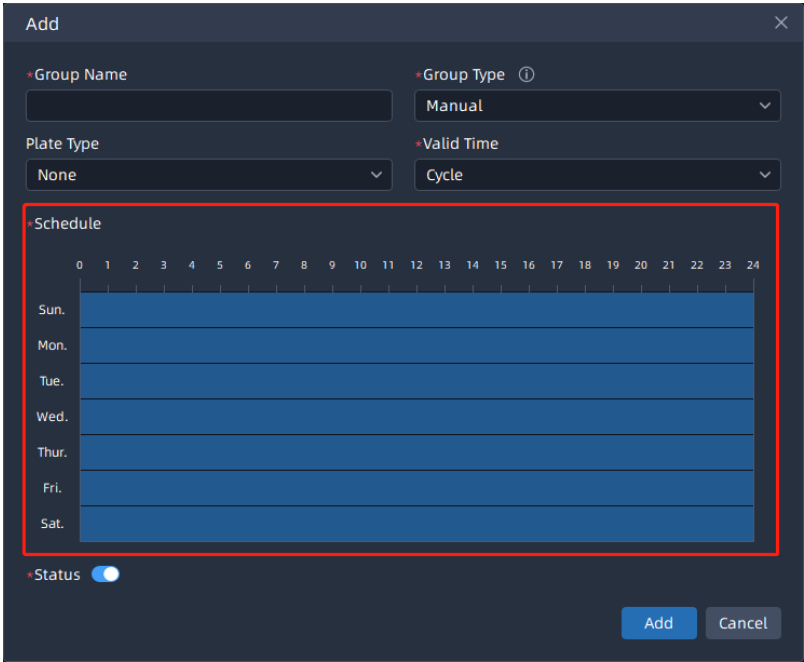
Step1: click **Add** button to pop up a Add Group window as below:

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 59.

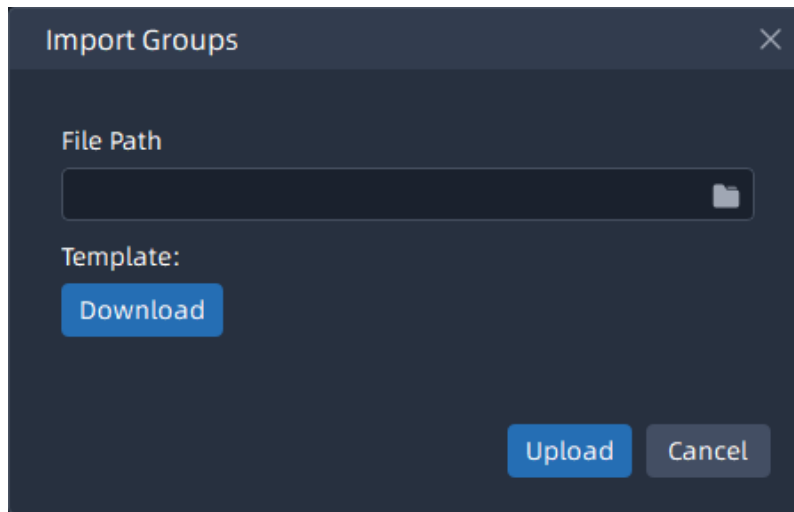
Parameter	Function Introduction
Group Type	Manual and Automatic are available for this option. Manual: Manual group can add, edit and delete the license plate in the group manually. Automatic: Automatic group can only set rules to update license plates automatically, but cannot edit or delete license plates manually.
Plate Type	Black List and White List are available for this option.



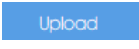
Parameter	Function Introduction
Valid Time	<p>Always, Custom and Cycle are available for this option.</p> <p>Always: The group will always take effect under this option.</p> <p>Custom: Users can customize the effective time of the group.</p>  <p>Cycle: Users can set schedule for the group.</p> 
Status	Click this option to enable or disable the group.

Step3: Repeat the Step1-2 to add other groups manually.

(2) Batch Import License Plate Group

Step1: Click  button to pop up a window as shown below:

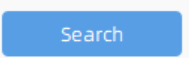






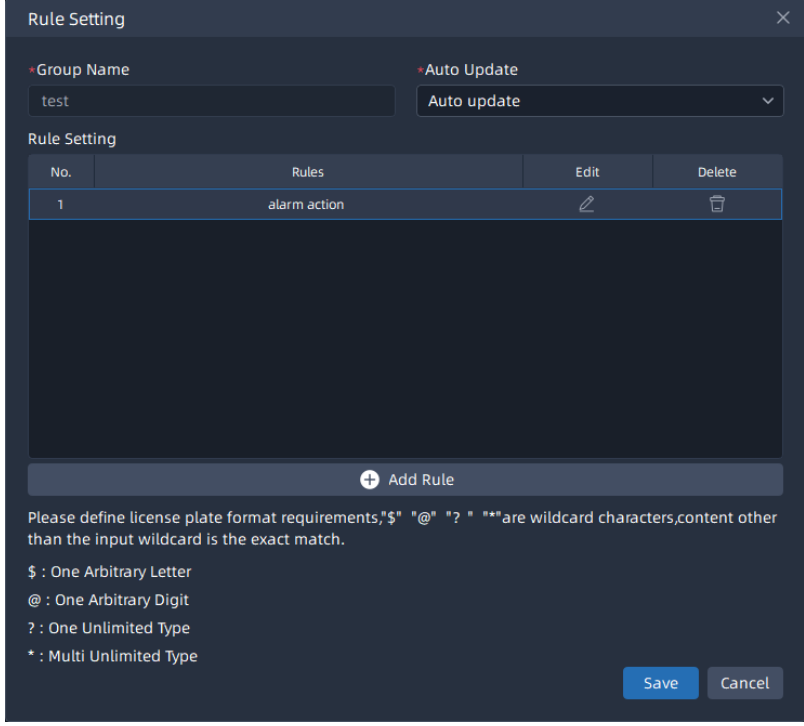
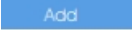
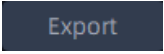



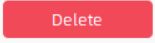
Step2: The imported file must be filled in according to the specified format. You can click  to download the template. After filling in, click  button to import a plates file, then click  button.

 **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 60.

Parameter	Function Introduction
	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.
	Check the basic information of this group.
	Modify the group information.
	Delete the group.

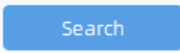
Parameter	Function Introduction
	<p>If you add a group as an automatic type, you can click this button to set the rules for this group, and then all license plates that meet the rules will be automatically added to this group.</p> 
	<p>Enter the group name and select Group Type, Plate Type and Valid Time, click the "Add" button, the group will be added successfully.</p>
	<p>Click the "Export List" button to export the group in the current list to a csv form locally.</p>
	<p>You can add a csv form with the group you want to add, then click  button to import the form to this interface. And click the "Upload" button, the group will be added successfully.</p> <p> Note: You can first download the template as a reference in this interface.</p>
	<p>Click the "Delete" button to delete all the selected groups in the current list.</p>


6.1.2 ANPR Result Search

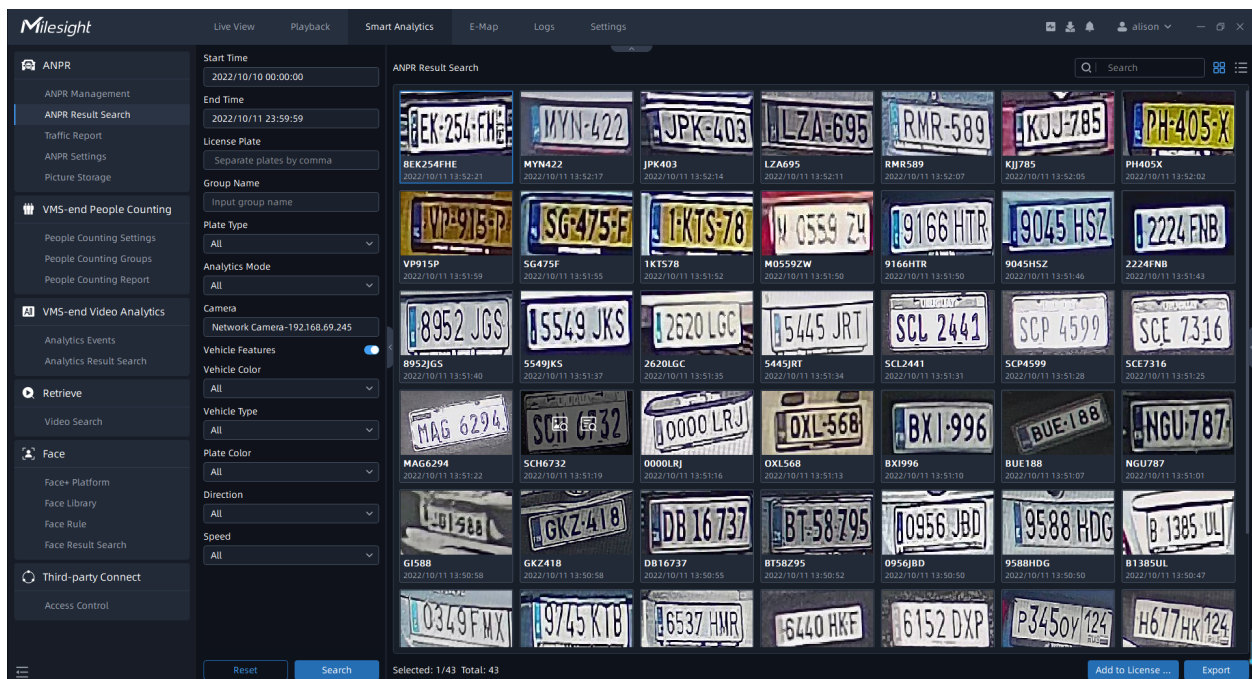
The real-time detection results will be displayed on the center of Smart Search page, including License Plate, Plate Type, Capture Time, live screenshot, camera name and IP.

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  button to switch to List Mode as below:

The screenshot displays the Milesight Smart Analytics interface. The main window is titled "ANPR Result Search" and shows a list of 28 detected license plates. The interface includes a sidebar with navigation options like "ANPR Management", "VMS-end People Counting", and "VMS-end Video Analytics". A central panel allows filtering by "Start Time", "End Time", "License Plate", "Group Name", "Plate Type", "Analytics Mode", "Camera", "Vehicle Features", "Vehicle Color", "Vehicle Type", "Plate Color", "Direction", and "Speed". The results table has columns for "No.", "License Plate Picture", "License Plate", "Plate Type", "Capture Time", "Camera", and "Operation".

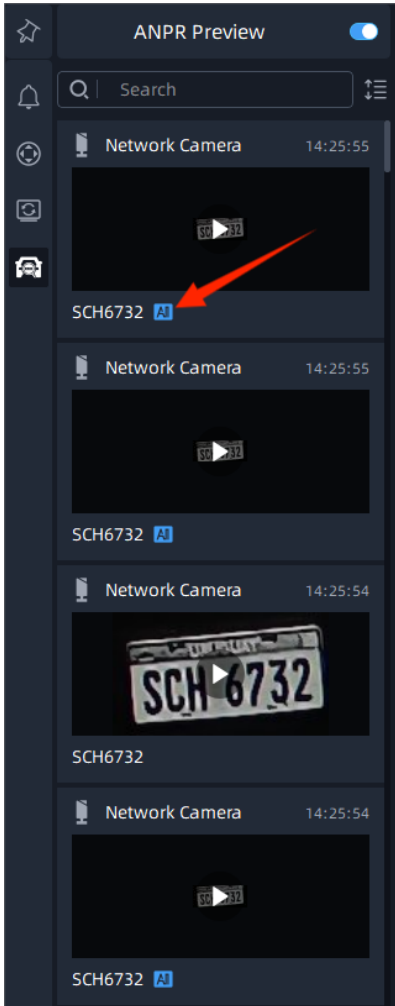
No.	License Plate Picture	License Plate	Plate Type	Capture Time	Camera	Operation
1		BEK-254-FHB	BEK254FHE	-	2022/10/11 13:52:21	Network ...
2		MYN-422	MYN422	-	2022/10/11 13:52:17	Network ...
3		JKK-403	JKK403	-	2022/10/11 13:52:14	Network ...
4		LZA-695	LZA695	-	2022/10/11 13:52:11	Network ...
5		RMR-589	RMR589	-	2022/10/11 13:52:07	Network ...
6		KJJ-785	KJJ785	-	2022/10/11 13:52:05	Network ...
7		PH405X	PH405X	-	2022/10/11 13:52:02	Network ...
8		VPP915P	VPP915P	-	2022/10/11 13:51:59	Network ...
9		SG475F	SG475F	-	2022/10/11 13:51:55	Network ...
10		TKTS78	TKTS78	-	2022/10/11 13:51:52	Network ...
11		M055ZU	M055ZU	-	2022/10/11 13:51:50	Network ...
12		9166HTR	9166HTR	-	2022/10/11 13:51:50	Network ...
13		8045 H8Z	9045HSZ	-	2022/10/11 13:51:46	Network ...
14		2224FNB	2224FNB	-	2022/10/11 13:51:43	Network ...
15		8952 JGS	8952JGS	-	2022/10/11 13:51:40	Network ...
16		5549 JKS	5549JKS	-	2022/10/11 13:51:37	Network ...
17		2620 LGC	2620LGC	-	2022/10/11 13:51:35	Network ...
18		5445 JRT	5445JRT	-	2022/10/11 13:51:34	Network ...
19		SCL 244A	SCL2441	-	2022/10/11 13:51:31	Network ...
20		SCP 4599	SCP4599	-	2022/10/11 13:51:28	Network ...
21		SCE 7316	SCE7316	-	2022/10/11 13:51:25	Network ...
22		MA6629A	MA6629A	-	2022/10/11 13:51:22	Network ...
23		SCH 6732	SCH6732	-	2022/10/11 13:51:19	Network ...
24		0000LRJ	0000LRJ	-	2022/10/11 13:51:16	Network ...
25		OXL568	OXL568	-	2022/10/11 13:51:13	Network ...
26		BX1996	BX1996	-	2022/10/11 13:51:10	Network ...
27		BU188	BU188	-	2022/10/11 13:51:07	Network ...
28		NGU-787	NGU787	-	2022/10/11 13:51:01	Network ...


- 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.

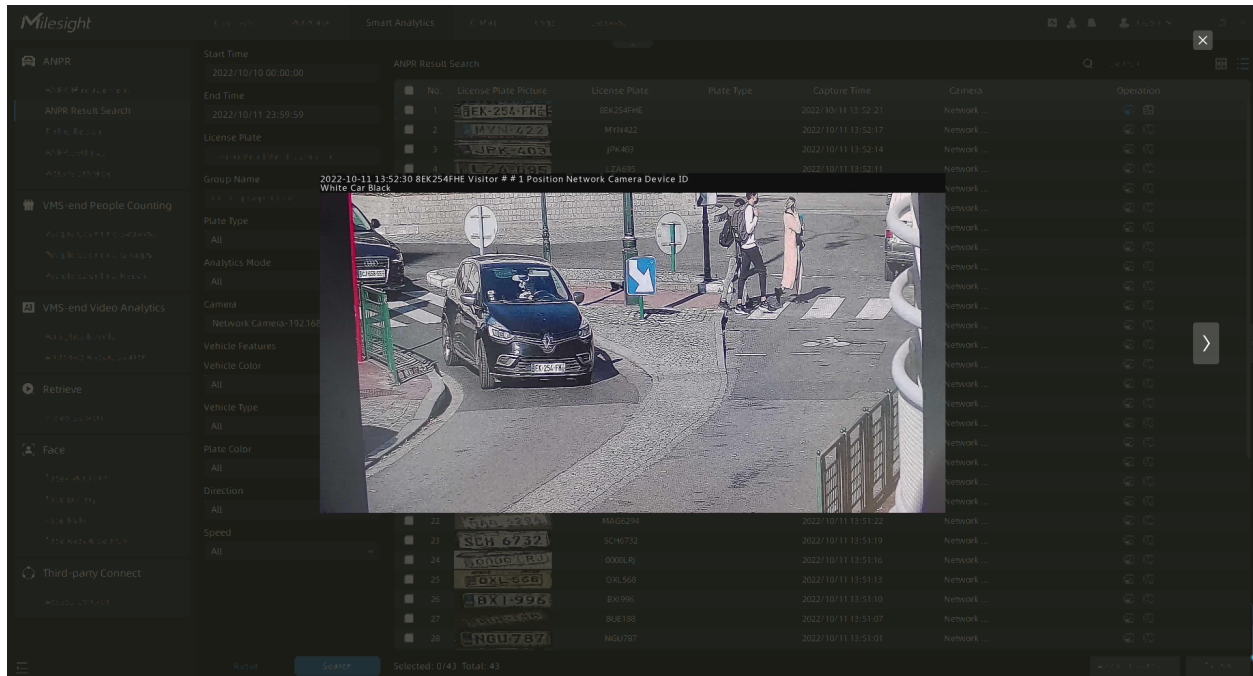
ANPR Result Search


Search

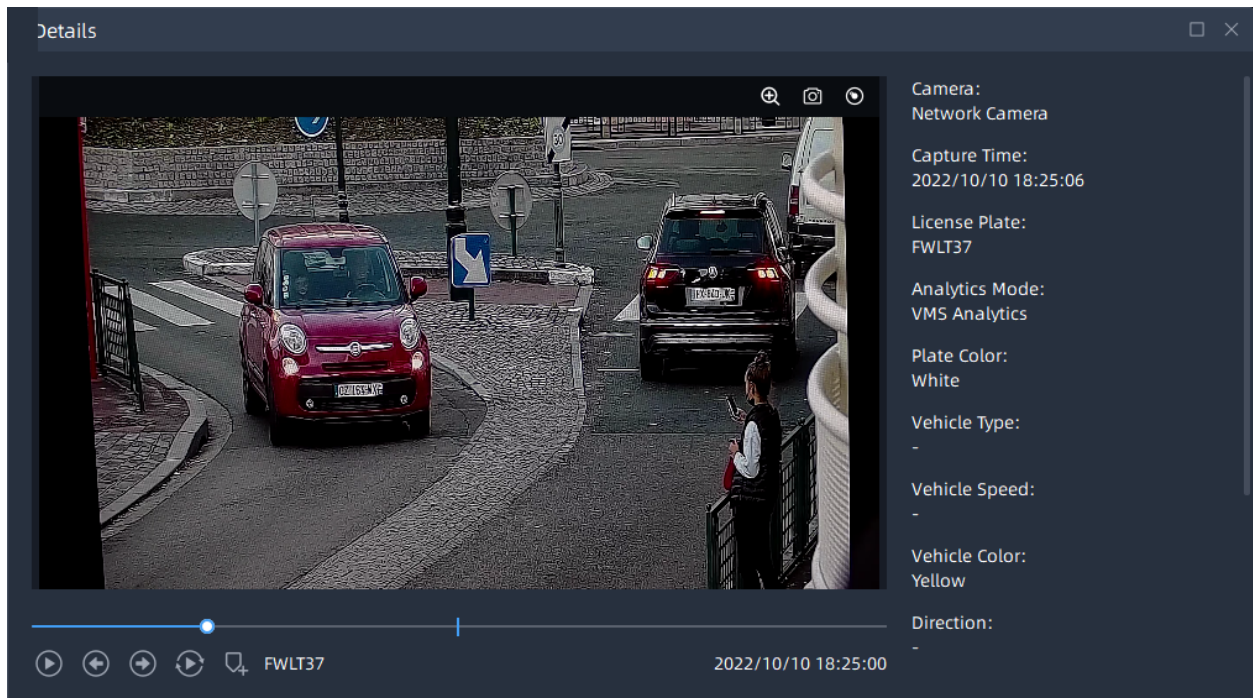
 34315UNB 2022/10/14 14:27:02	 34451IRB 2022/10/14 14:27:02	 8464HNB 2022/10/14 14:27:01	 GA807PA 2022/10/14 14:27:01	 427641N5 2022/10/14 14:27:01	 R9180Z3 2022/10/14 14:27:00	 R9180Z3 2022/10/14 14:27:00
 R9180Z5 2022/10/14 14:26:59	 R9180Z3 2022/10/14 14:26:59	 BZ110DSE 2022/10/14 14:26:58	 718BZ5 2022/10/14 14:26:58	 R9180Z3 2022/10/14 14:26:58	 DRDM464 2022/10/14 14:26:57	 BRDM46 2022/10/14 14:26:57
 EK254FM 2022/10/14 14:26:56	 PRDM06 2022/10/14 14:26:56	 BRDM06 2022/10/14 14:26:56	 PRDM06 2022/10/14 14:26:55	 PRDM06 2022/10/14 14:26:55	 WWN492 2022/10/14 14:26:54	 MWN492 2022/10/14 14:26:54
 MHN422 2022/10/14 14:26:53	 MWN4P2 2022/10/14 14:26:53	 WMN492 2022/10/14 14:26:52	 MYN422 2022/10/14 14:26:52	 JPK403 2022/10/14 14:26:52	 WMN492 2022/10/14 14:26:52	 ZPRPW 2022/10/14 14:26:50
 ZPR4PW 2022/10/14 14:26:50	 LZA695 2022/10/14 14:26:46	 RMR589 2022/10/14 14:26:45	 RMR589 2022/10/14 14:26:45	 RMR589 2022/10/14 14:26:44	 RMR589 2022/10/14 14:26:44	 RMR569 2022/10/14 14:26:43

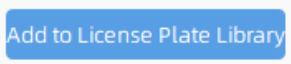


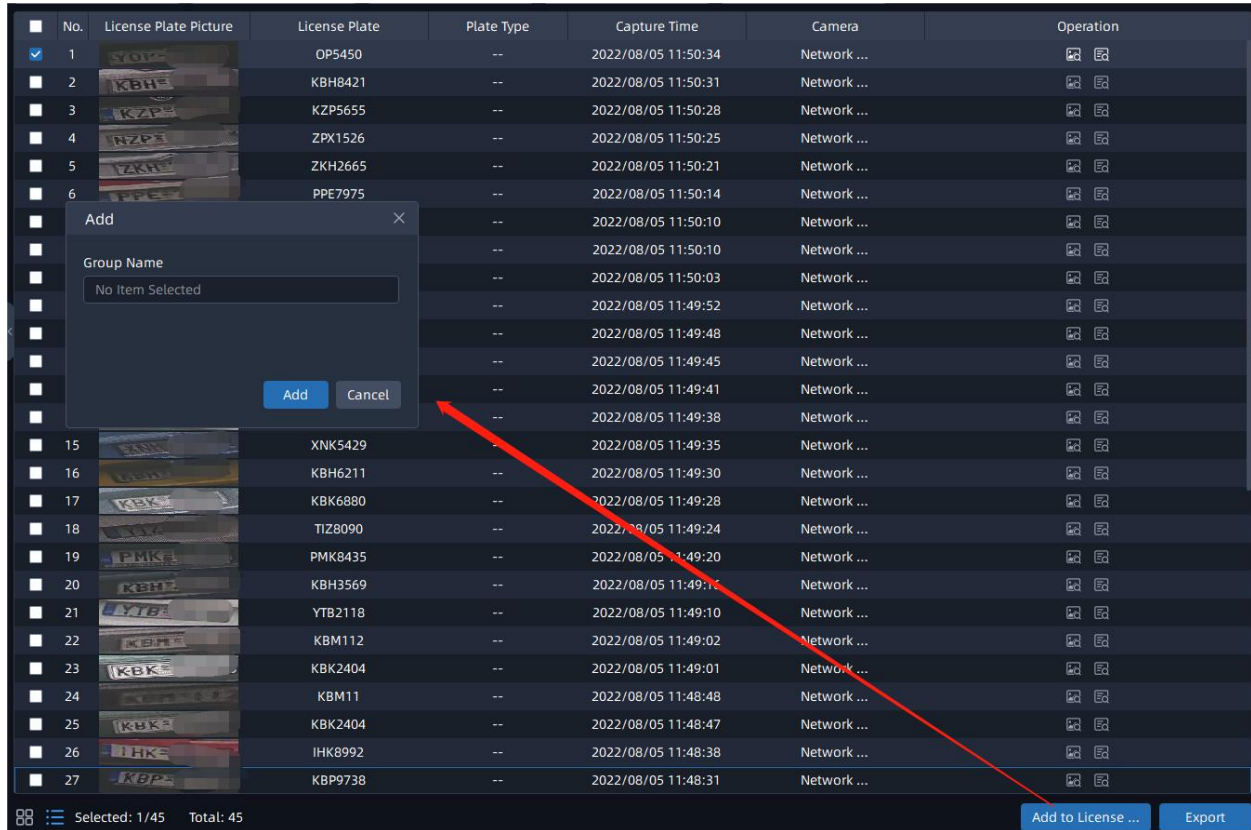
Step2: Click the  icon in the upper right corner of the result, it will display the entire snapshot including the detection frame as shown below:



And click the  icon 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.





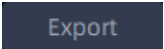


Step3: Select the detection result and click  button to add the license plate to the license plate group.

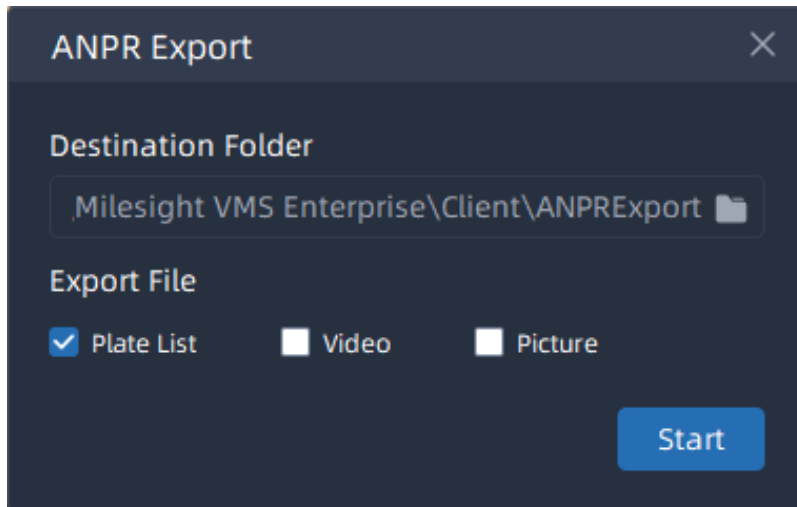



No.	License Plate Picture	License Plate	Plate Type	Capture Time	Camera	Operation	
1		OP5450	--	2022/08/05 11:50:34	Network ...		
2		KBH8421	--	2022/08/05 11:50:31	Network ...		
3		KZP5655	--	2022/08/05 11:50:28	Network ...		
4		ZPX1526	--	2022/08/05 11:50:25	Network ...		
5		ZKH2665	--	2022/08/05 11:50:21	Network ...		
6		PPE7975	--	2022/08/05 11:50:14	Network ...		
7			--	2022/08/05 11:50:10	Network ...		
8			--	2022/08/05 11:50:10	Network ...		
9			--	2022/08/05 11:50:03	Network ...		
10			--	2022/08/05 11:49:52	Network ...		
11			--	2022/08/05 11:49:48	Network ...		
12			--	2022/08/05 11:49:45	Network ...		
13			--	2022/08/05 11:49:41	Network ...		
14			--	2022/08/05 11:49:38	Network ...		
15		XNK5429	--	2022/08/05 11:49:35	Network ...		
16		KBH6211	--	2022/08/05 11:49:30	Network ...		
17		KBK6880	--	2022/08/05 11:49:28	Network ...		
18		TIZ8090	--	2022/08/05 11:49:24	Network ...		
19		PMK8435	--	2022/08/05 11:49:20	Network ...		
20		KBH3569	--	2022/08/05 11:49:15	Network ...		
21		YTB2118	--	2022/08/05 11:49:10	Network ...		
22		KBM112	--	2022/08/05 11:49:02	Network ...		
23		KBK2404	--	2022/08/05 11:49:01	Network ...		
24		KBM11	--	2022/08/05 11:48:48	Network ...		
25		KBK2404	--	2022/08/05 11:48:47	Network ...		
26		IHK8992	--	2022/08/05 11:48:38	Network ...		
27		KBP9738	--	2022/08/05 11:48:31	Network ...		

Selected: 1/45 Total: 45

Step4: Select the detection result and click  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 [User Interface Introduction \(page 29\)](#).

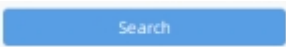


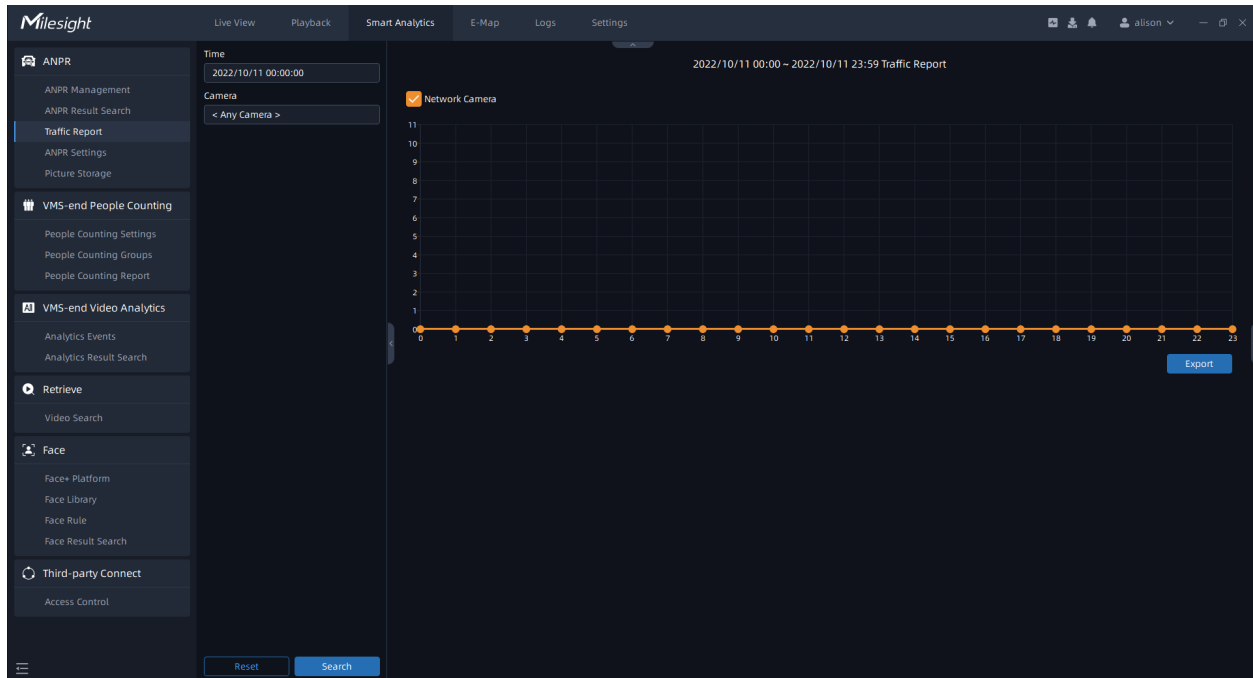
 **Note:** The backup file of Plate List is csv format.

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.

The screenshot shows an 'Export' dialog box with a close button (X) in the top right corner. It contains the following fields and options:

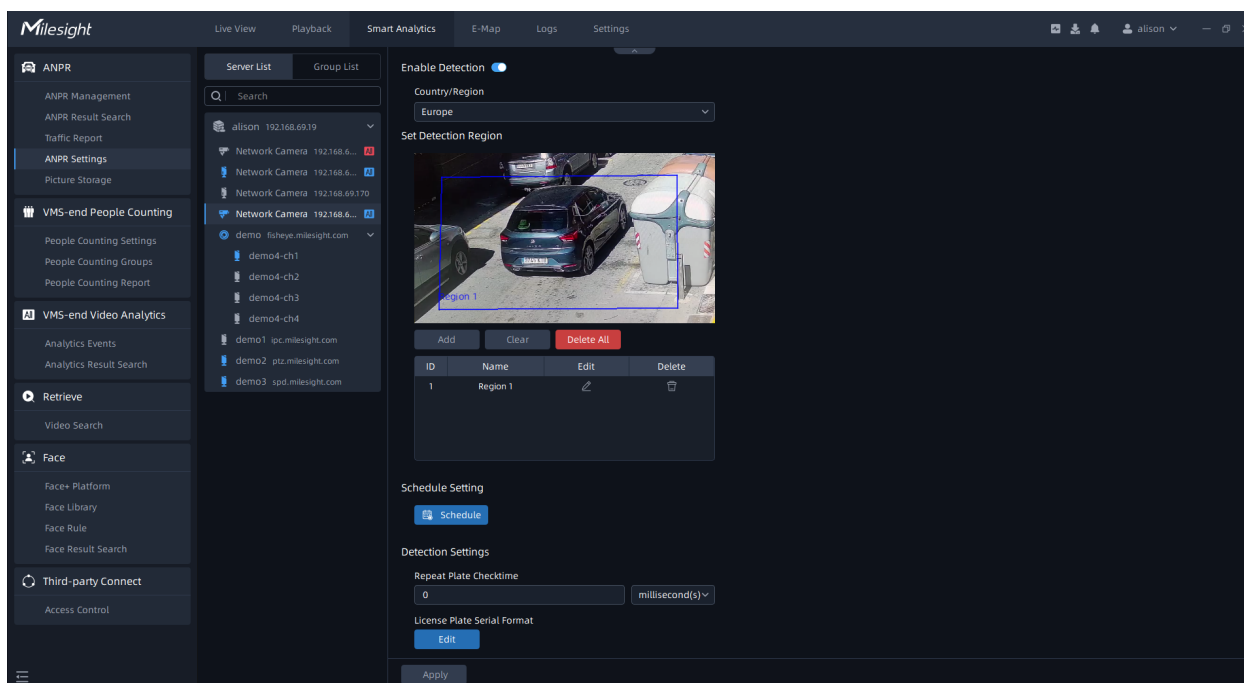
- Export Name:** A text input field containing 'Cross Line People Counting_20220804184634'.
- Destination Folder:** A text input field containing 'C:/Users/Lix/Desktop' with a folder icon on the right.
- File Format:** Two radio button options: 'csv' and 'png', both of which are currently unselected.
- Buttons:** Two buttons at the bottom: 'Export' (highlighted in blue) and 'Cancel' (greyed out).


6.1.4 ANPR Settings

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 [License Activation \(page 132\)](#).
- The Video Analytics Server has been installed and running. For more information about the analytics server, please refer to [Analytics Settings \(page 149\)](#).



Step1: Click  button to enable Detection, select Country/Region, then the camera can start detecting the license plates;

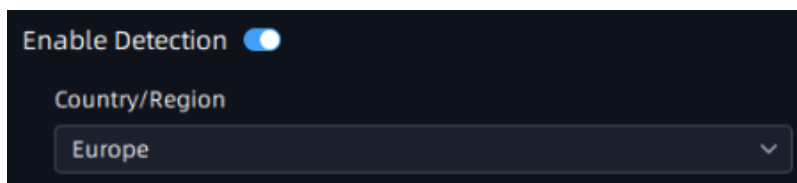




Table 61.

Parameters	Function Introduction
	Click the button to enable detection function.
Country/Region	Select Country/Region to detect the license plate.  Note: Currently it supports Europe, Australia, India, Japan, Korea, Mexico, Thailand and Vietnam.

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

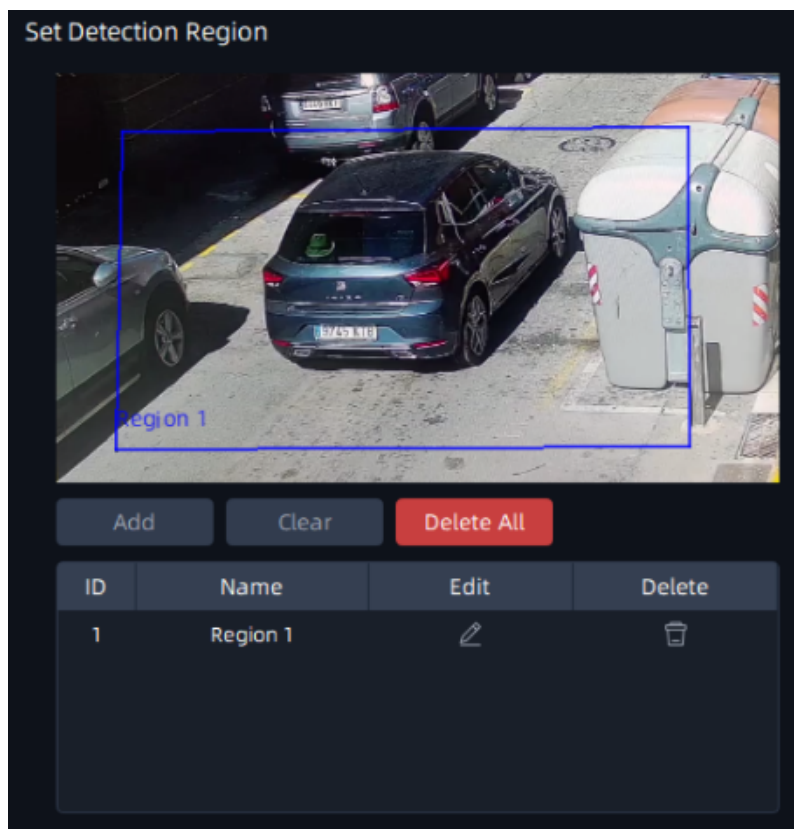



















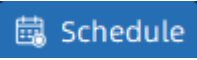
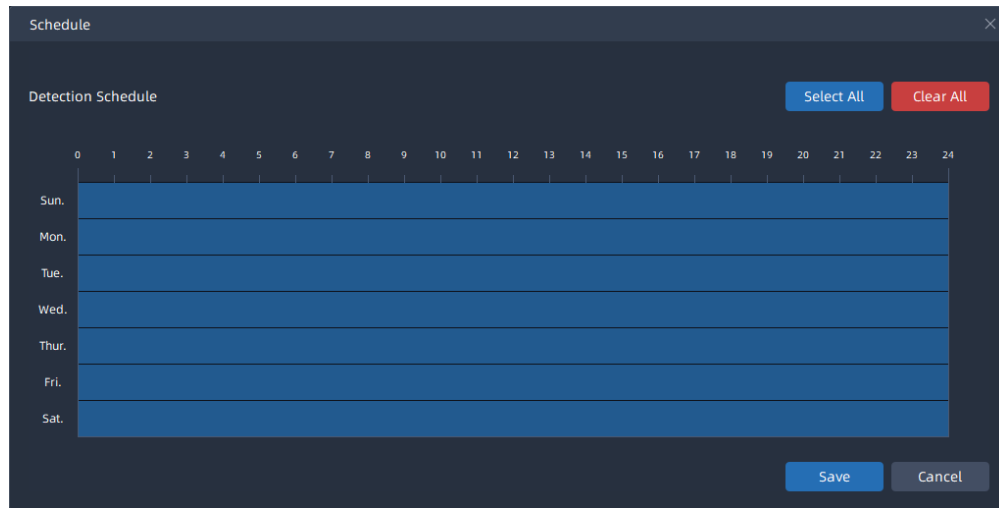


Table 62.

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

Parameters	Function Introduction																
<p style="text-align: center;">Add</p>	<p>Draw the screen to select the interested areas, then click "Add" button to add the area, and only four recognition areas can be added.</p> <p>You can edit the name of the areas or delete the areas in the list below.</p> <table border="1" data-bbox="581 478 1377 751"> <thead> <tr> <th>ID</th> <th>Name</th> <th>Edit</th> <th>Delete</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ROI_1</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>ROI_2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>ROI_3</td> <td></td> <td></td> </tr> </tbody> </table> <p> Note: Minimum width of detection area is 150 pixels, and Minimum height of detection area is 40 pixels.</p>	ID	Name	Edit	Delete	1	ROI_1			2	ROI_2			3	ROI_3		
ID	Name	Edit	Delete														
1	ROI_1																
2	ROI_2																
3	ROI_3																
<p style="text-align: center;">Clear</p>	<p>Click the "Clear" button to clear the area being drawn.</p>																
<p style="text-align: center;">Delete All</p>	<p>Click the "Delete All" button to delete all the added areas.</p>																

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



Step4: Set Detection Settings, Snapshot OSD, then click "Apply" button.

Detection Settings

Detection Trigger

Repeat Plate Checktime

License Plate Serial Format

Features Identification

All
 Plate Color Vehicle Type
 Vehicle Color Detection Region
 Direction

Snapshot OSD

Font Size

Font Color

Enable Background Color

OSD Position

OSD Information

All

Plate

License Plate Plate Type
 Plate Color


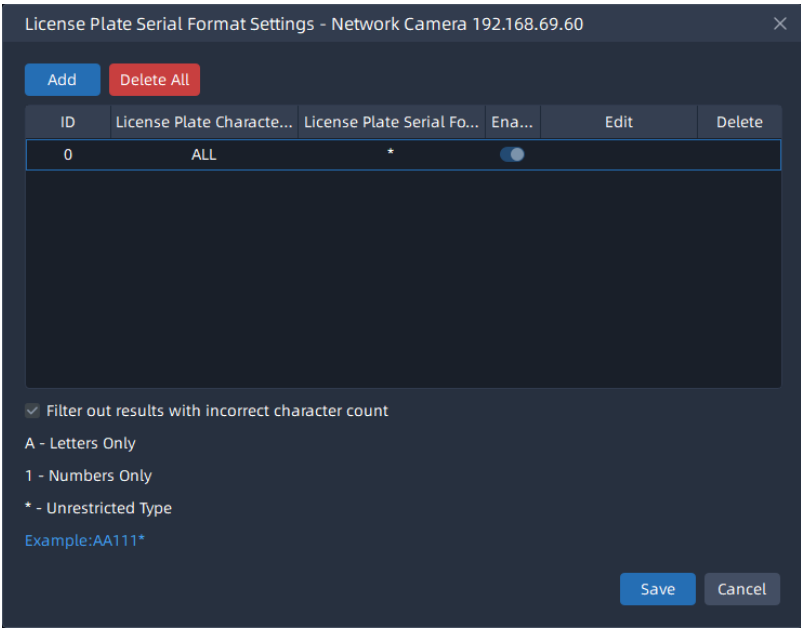
Vehicle

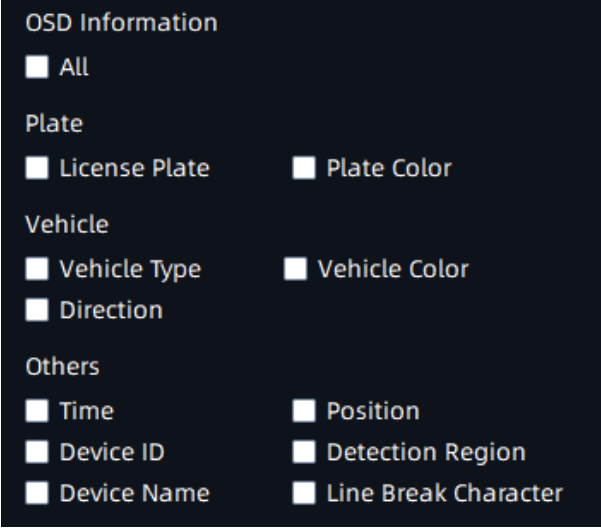
Vehicle Type Vehicle Color
 Direction Speed

Others

Time Position
 Device ID Detection Region
 Device Name Line Break Character


Table 63.

Parameters	Function Introduction
Repeat Plate Checktime	<p>Set the time interval for repeatedly reading license plates to effectively avoid duplicate identification of parking vehicles.</p> <p>You can set Repeat Plate Checktime from 0 to 60min or 0 to 60000ms.</p>
License Plate Serial Format	<p>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.</p> 
Features Identification	<p>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.</p>
Font Size	<p>You can set the font size from 1% to 10%.</p>
Font Color	<p>Set different colors for the image OSD.</p>
Enable Background Color	<p>Enable to set different colors for display information background on screen.</p>
OSD Position	<p>OSD display position on the image .</p>

Parameters	Function Introduction
OSD Information	<p>Customize the OSD content. You can set OSD Information as shown below:</p>  <p>The screenshot shows a dark-themed configuration panel for OSD Information. It includes sections for 'OSD Information', 'Plate', 'Vehicle', and 'Others'. Each section contains several checkboxes for enabling or disabling specific information items.</p> <ul style="list-style-type: none"> OSD Information: <input type="checkbox"/> All Plate: <input type="checkbox"/> License Plate, <input type="checkbox"/> Plate Color Vehicle: <input type="checkbox"/> Vehicle Type, <input type="checkbox"/> Vehicle Color, <input type="checkbox"/> Direction Others: <input type="checkbox"/> Time, <input type="checkbox"/> Position, <input type="checkbox"/> Device ID, <input type="checkbox"/> Detection Region, <input type="checkbox"/> Device Name, <input type="checkbox"/> Line Break Character

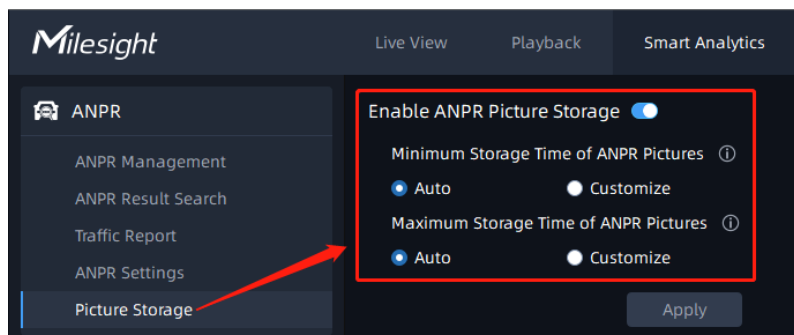
6.1.5 Picture Storage



Click  button to enable ANPR Picture Storage. And users can set the minimum storage time and maximum storage time of face pictures. Auto and Customize options are available.

- **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:



6.2 VMS-end People Counting

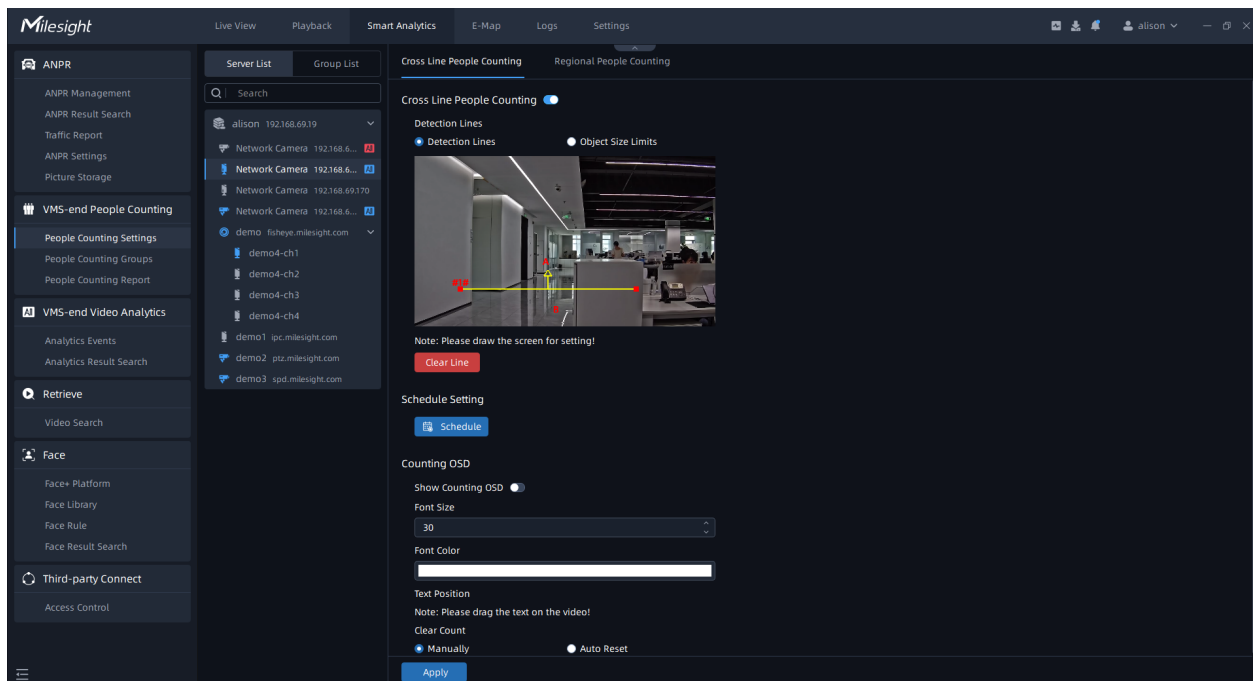
VMS-end People Counting including Cross Line People Counting, Regional People Counting, People Counting Groups and People Counting Reports. Users only need to add the Video Analytics Server and video streams to the VMS system, then the People Counting function can be enabled on the VMS side to meet various monitoring scenarios.

Before setting, you need to confirm the related items refer to [Analytics Settings \(page 149\)](#).

6.2.1 People Counting Settings

Cross Line People Counting

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

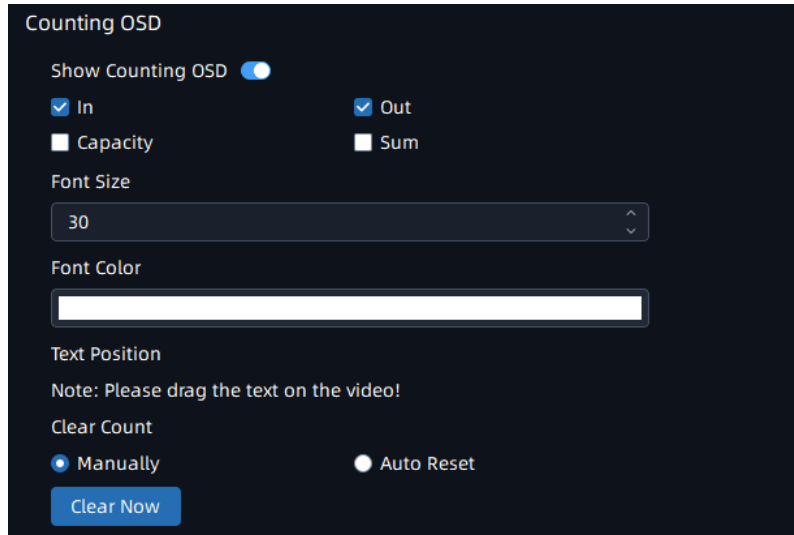


Step1: Select the camera and enable the Cross Line People Counting function;

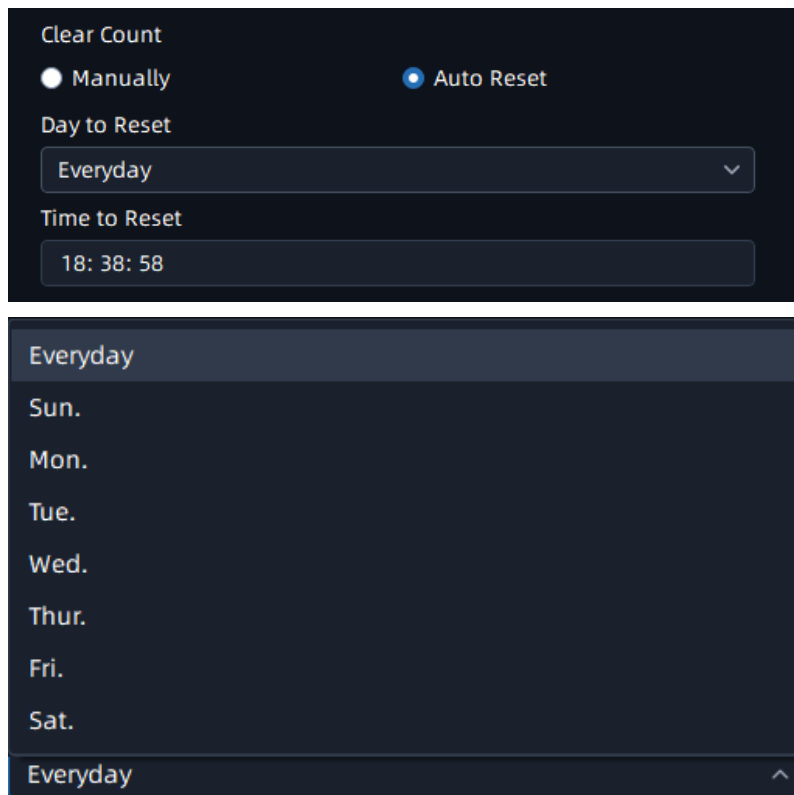
Step2: Set detection line;

Step3: Click  to set detection schedule;

Step4: Set Counting OSD;



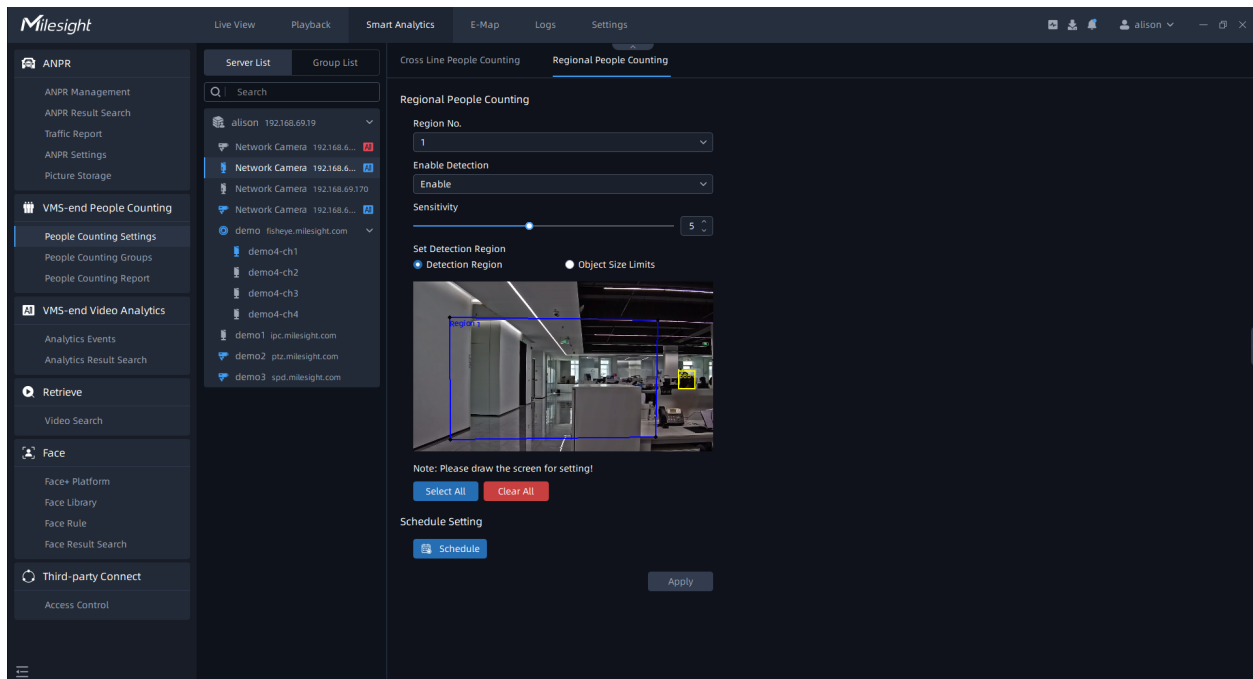
Here you can check counting options that will display on the screen, and set font size, font color and text position. There are two types of Clear Count, including Manually and Auto Reset. You can check Manually and click **Clear Now** to clear counting, or check Auto Reset and choose when to automatically reset. The Auto Reset configuration interface is as below:



Step5: Click **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. It supports up to 4 detection regions;

Step2: Set detecting sensitivity;

Step3: Draw the detection region.

Step4: Set detection schedule, then click [Apply](#) to send the settings to the camera to apply.

6.2.2 People Counting Groups

Users can add multiple cameras 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.

Basic Information

Group Name
Please input a group name!

Source
Add Delete

Device Name	Address	Detection Mode	Counting State
Network Camera	192.168.69.162	From VMS	Enable

Maximum People Amount

Maximum Number
200

Clear count of People Stayed
 Manually Auto Reset
 Clear Now

Counting OSD
Allow Entry

OSD Preview:
 Welcome!
 People Stayed: 000000
 Remaining Capacity: 000000

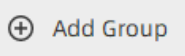
Apply

Clear count of People Stayed
 Manually Auto Reset
 Clear Now

Counting OSD
Not Allow Entry

OSD Preview:
 Wait for a moment please!
 People Stayed: 000000
 Remaining Capacity: 000000

Apply

Step1: Click  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.

- **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  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 [People Counting \(page 229\)](#) interface of the Live view.

6.2.3 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;

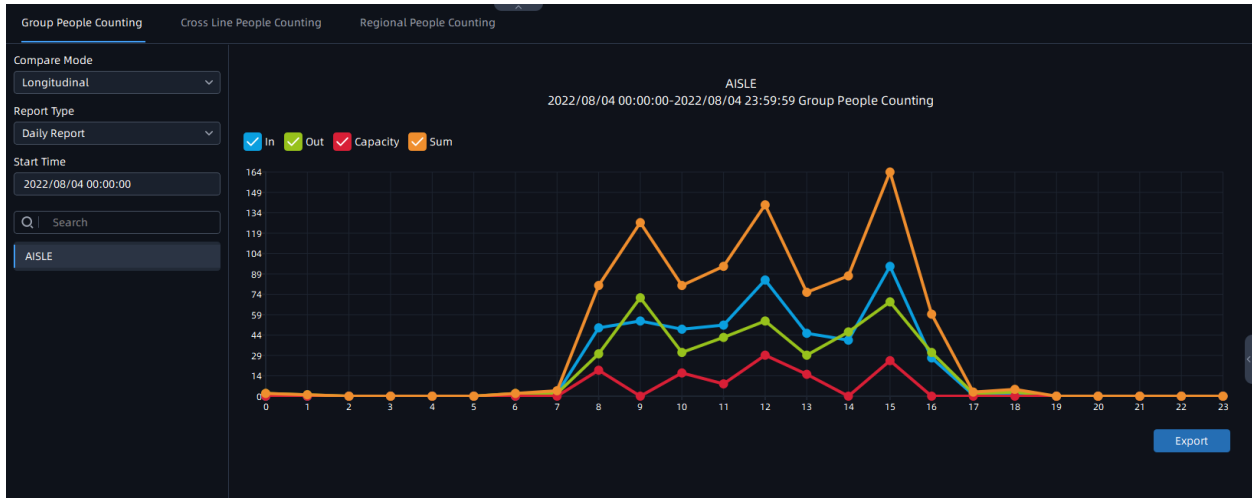
Step3: Select Start Time, then select the corresponding groups.

 **Note:** For the longitudinal mode, you can only select one group. For the horizontal mode, you can select up to 10 groups as needed.

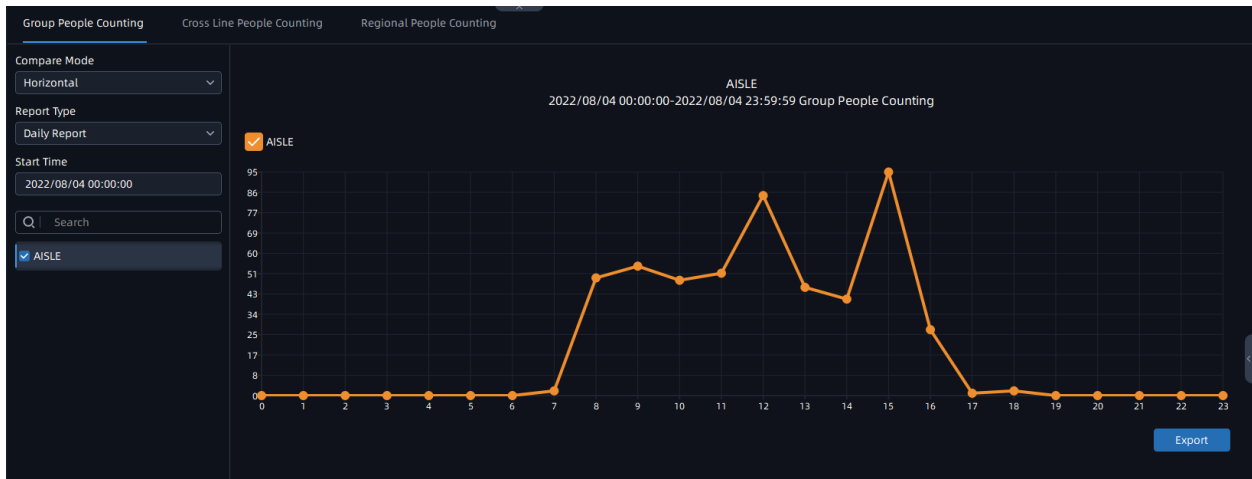
Step4: If the Compare Mode is selected as Horizontal Mode, you also need to select the Statistics Type including In, Out, Capacity and Sum.

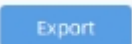
Step5: Click the  button, it will automatically count the data for the day/ week/ month/ year (based on the report type selected by the user) from the start time and generate the corresponding report.

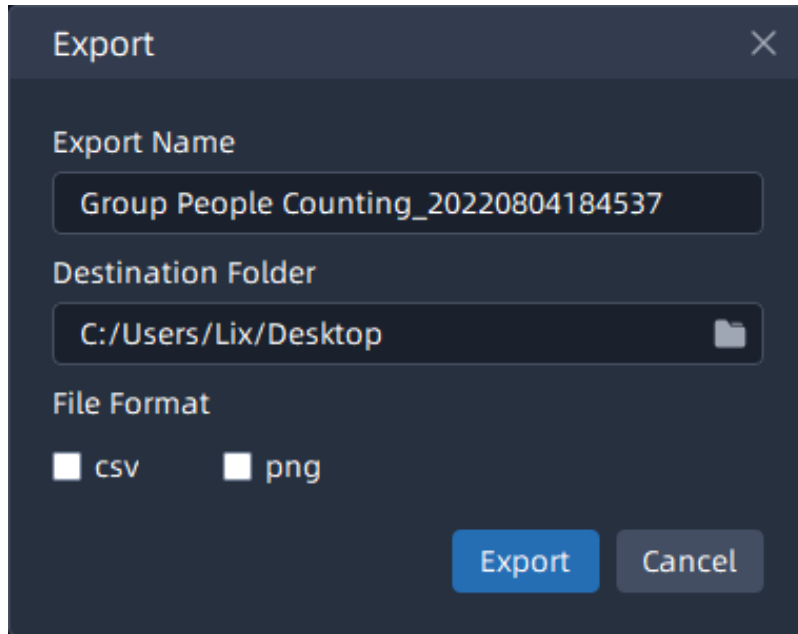
Longitudinal:



Horizontal:



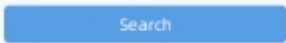
Step4: Click the  button to pop up the Export window as shown below, and you can choose File Format to export the report to local.

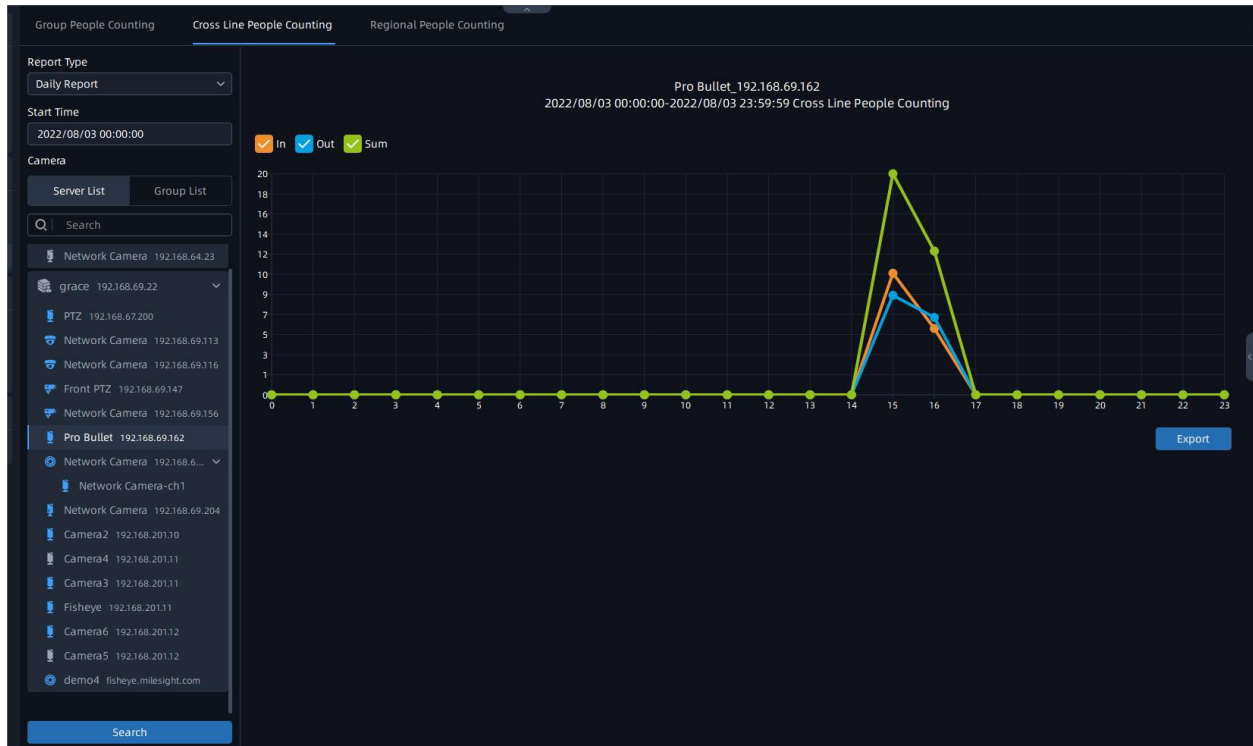


Cross Line People Counting

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.

Export

Export Name
Cross Line People Counting_20220804184634

Destination Folder
C:/Users/Lix/Desktop

File Format
 csv png

Export Cancel


Regional People Counting

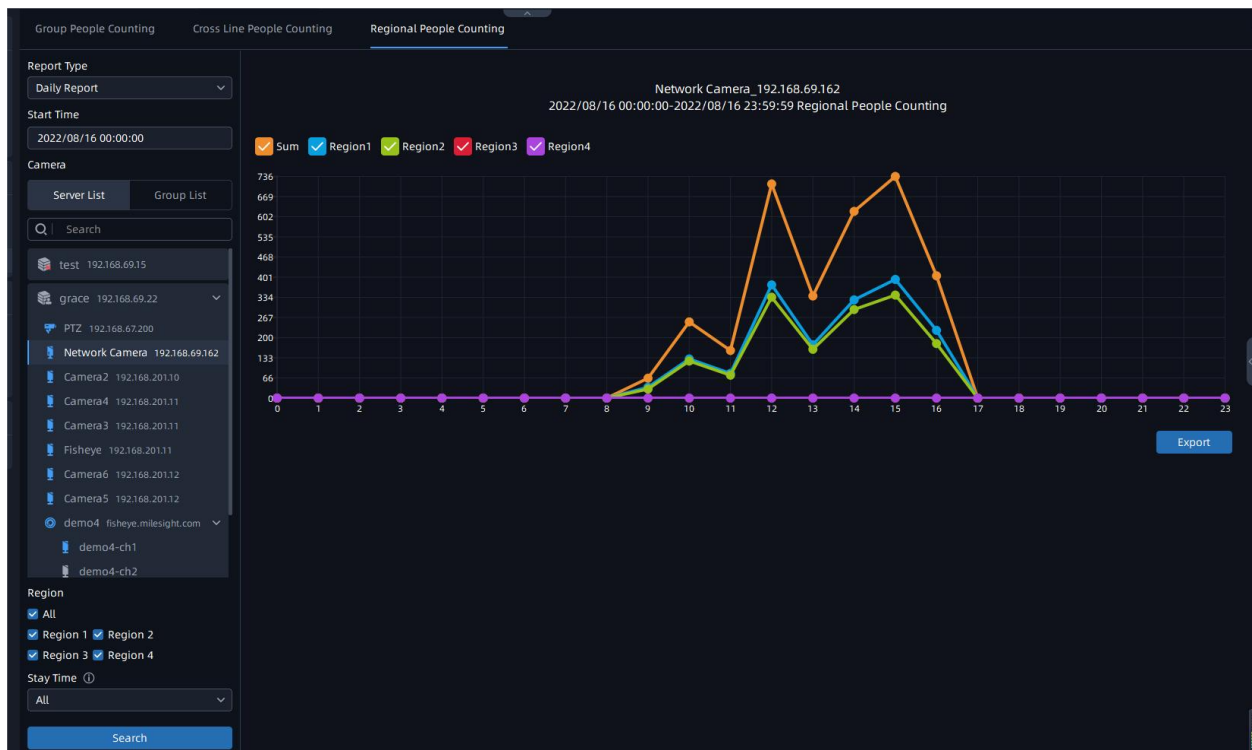
Step1: Select Report Type including Daily Report, Weekly Report, Monthly Report and Annual Report;

Step2: Select Start Time, then select the corresponding camera.

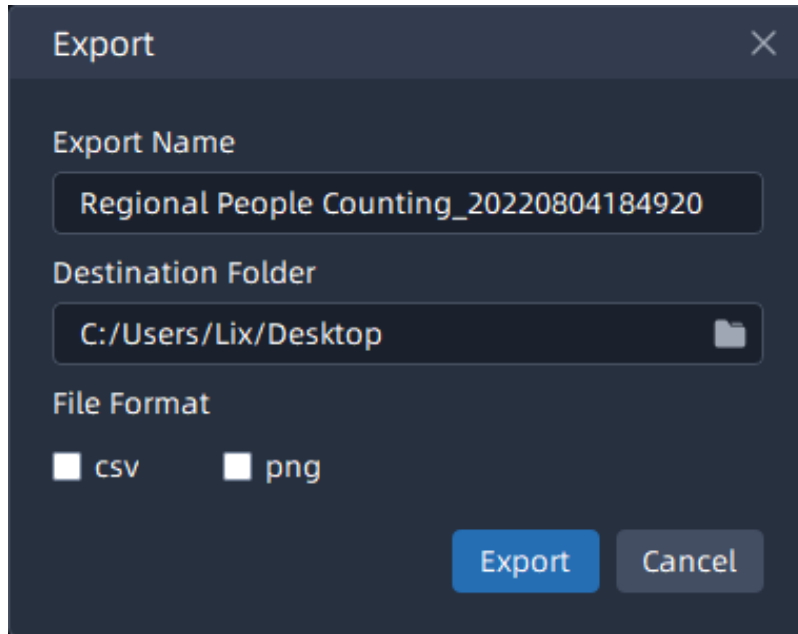
Step3: check the check box to select the regions as needed.

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.



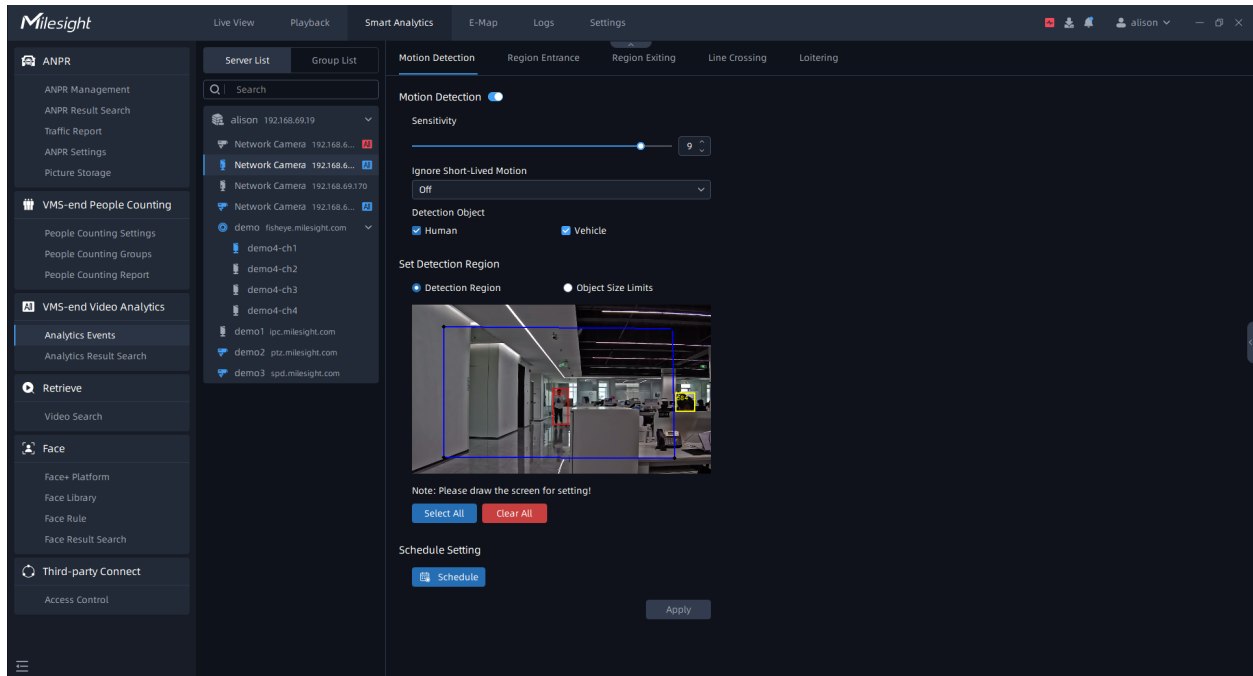
6.3 VMS-end Video Analytics

6.3.1 Analytics Events

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.

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 Motion Detection function;

Step2: Set detecting sensitivity;

Step3: Set Ignore Short-Lived Motion time. 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 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;

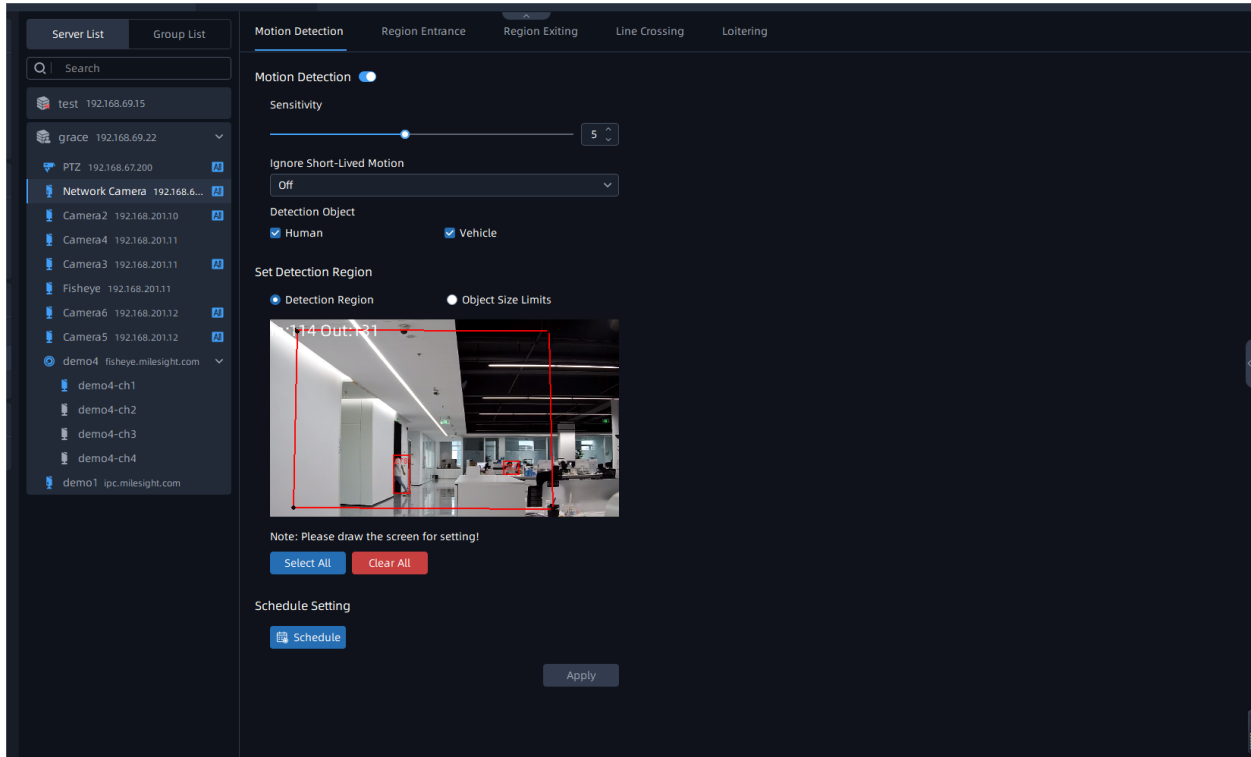
Step4: Draw the detection region, it supports polygon areas.

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.

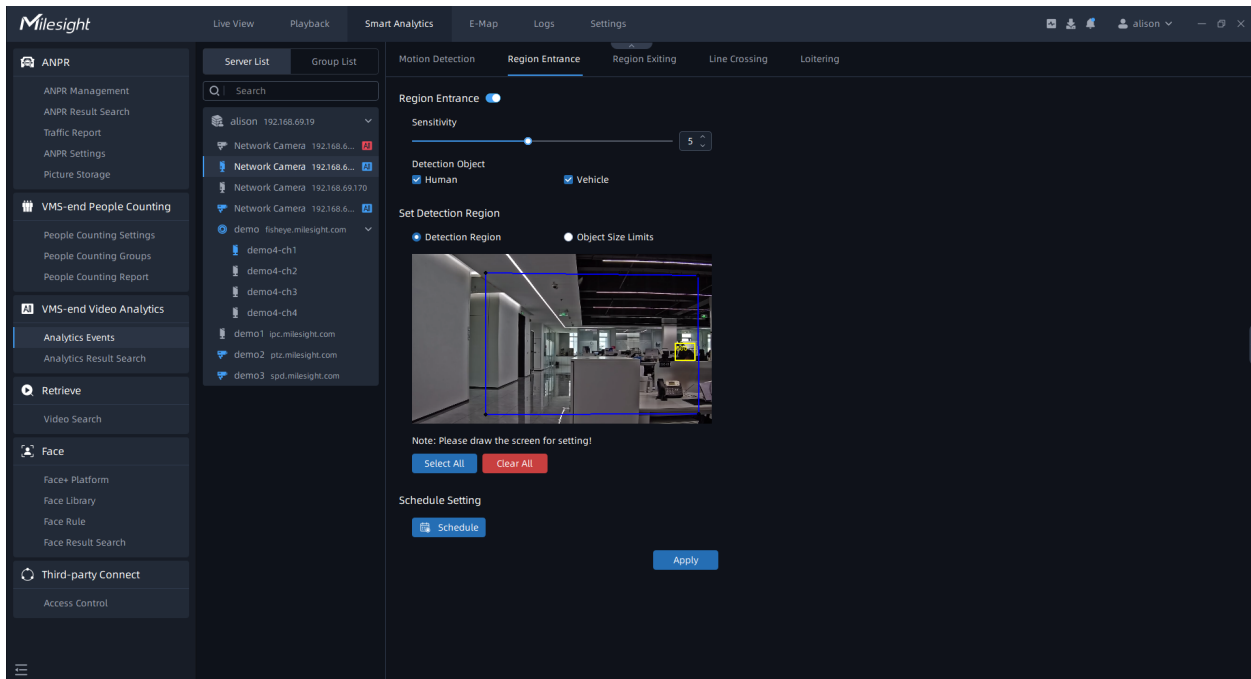
Step6: Set detection schedule, then click [Apply](#) to saving the settings.

 **Note:** 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.

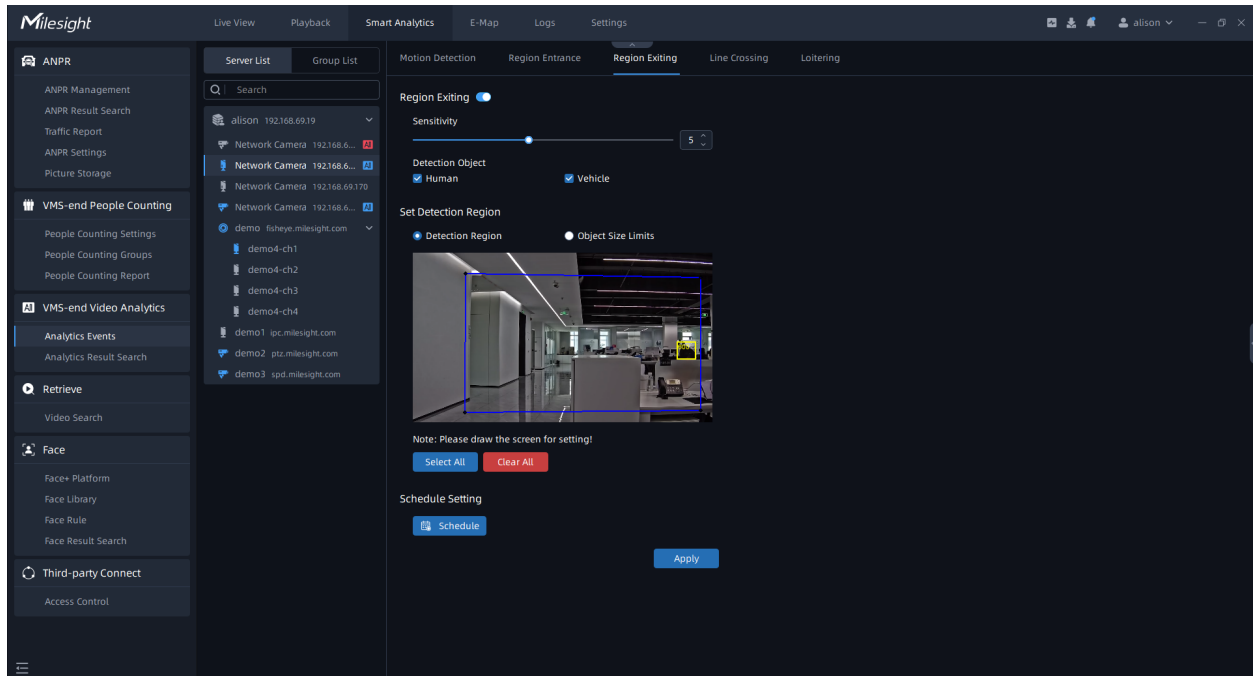
- **Minimum Size:** Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.
- **Maximum Size:** Draw the screen or input pixel number to set the maximum size of the detected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

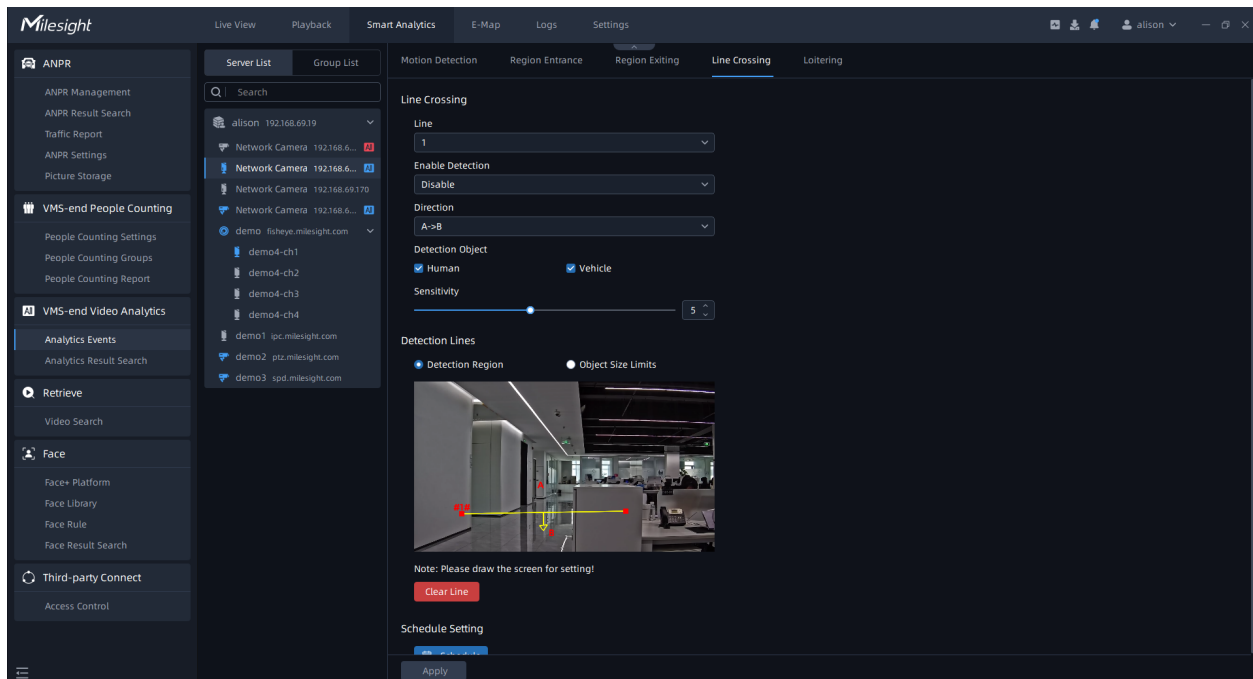
- **Minimum Size:** Draw the screen or input pixel number to set the minimum size of the detected object. When the object is smaller than this size, it will not be detected. The default minimum size is 3*3.
- **Maximum Size:** Draw the screen or input pixel number to set the maximum size of the detected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

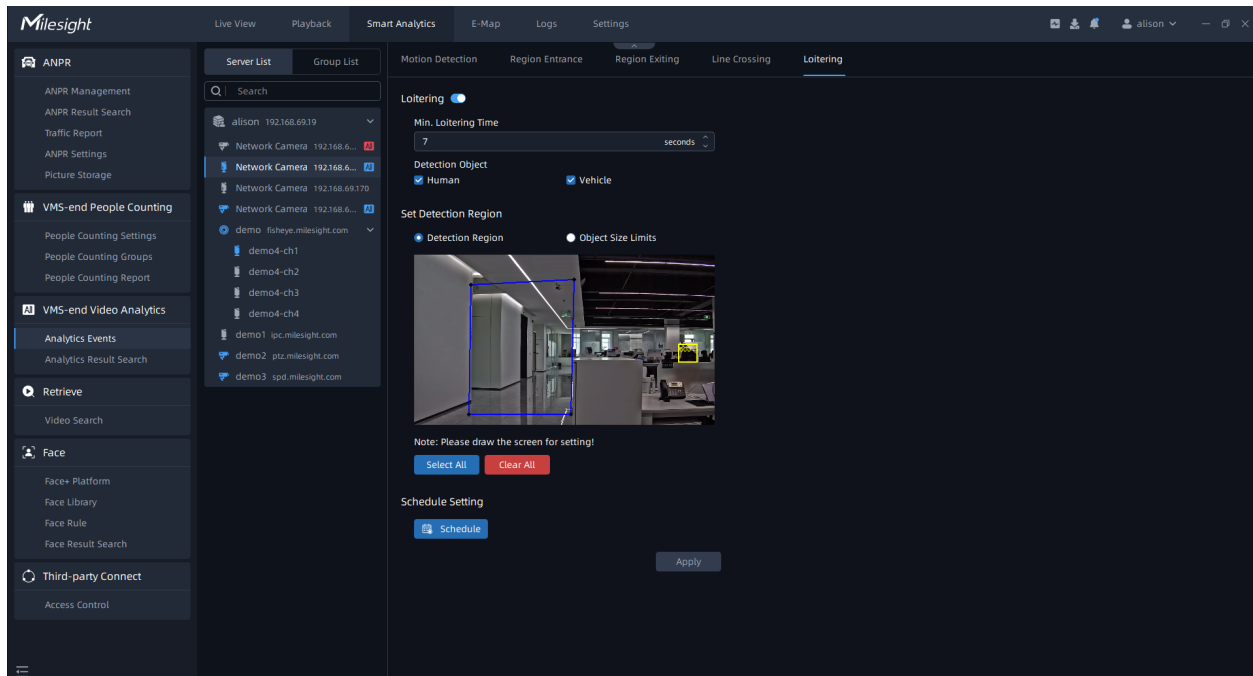
Step8: Set detection schedule, then click [Apply](#) to save the settings.

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:

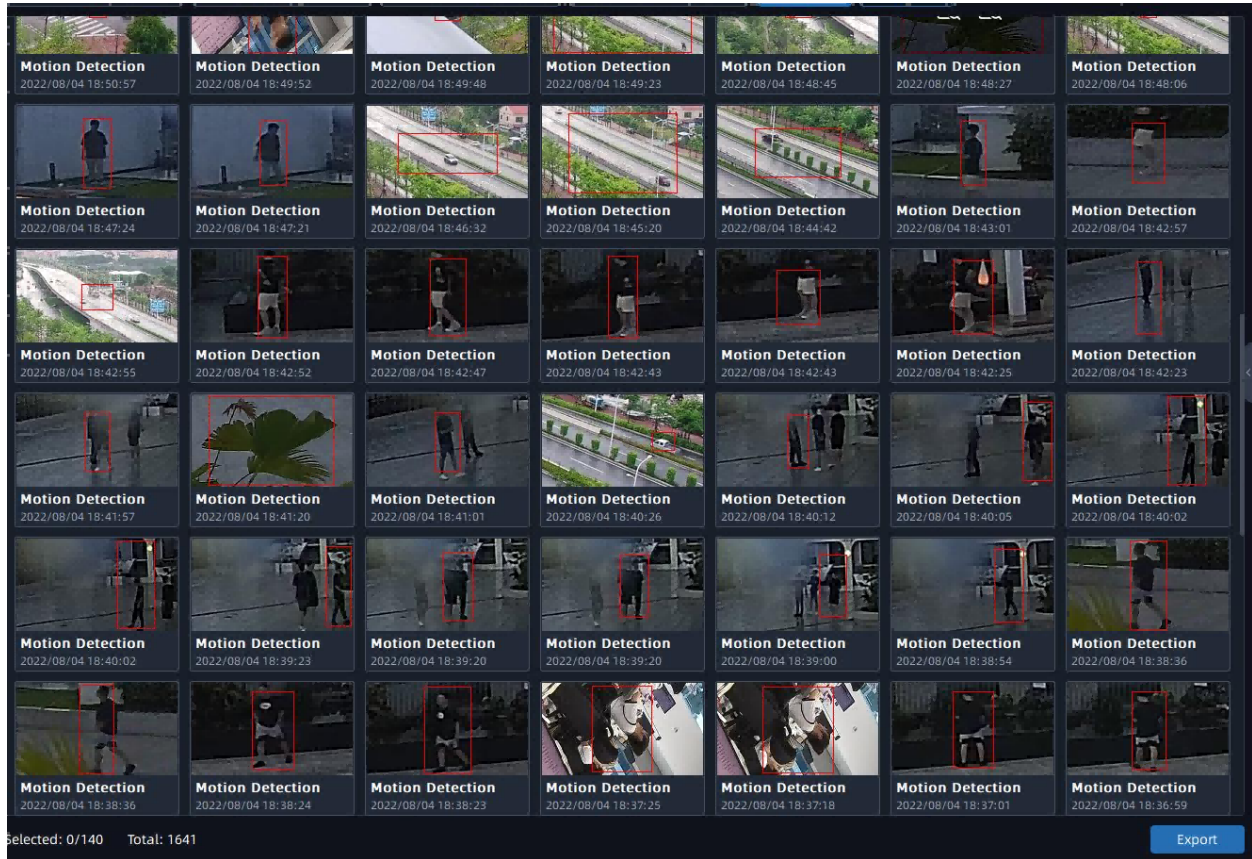
1. After setting minimum loitering time from 3s to 1800s, any object loitering in the selected area over the minimum loitering time will trigger the alarm.
2. It will show the real-time trigger status of the event in the configuration page.


6.3.2 Analytics Result Search

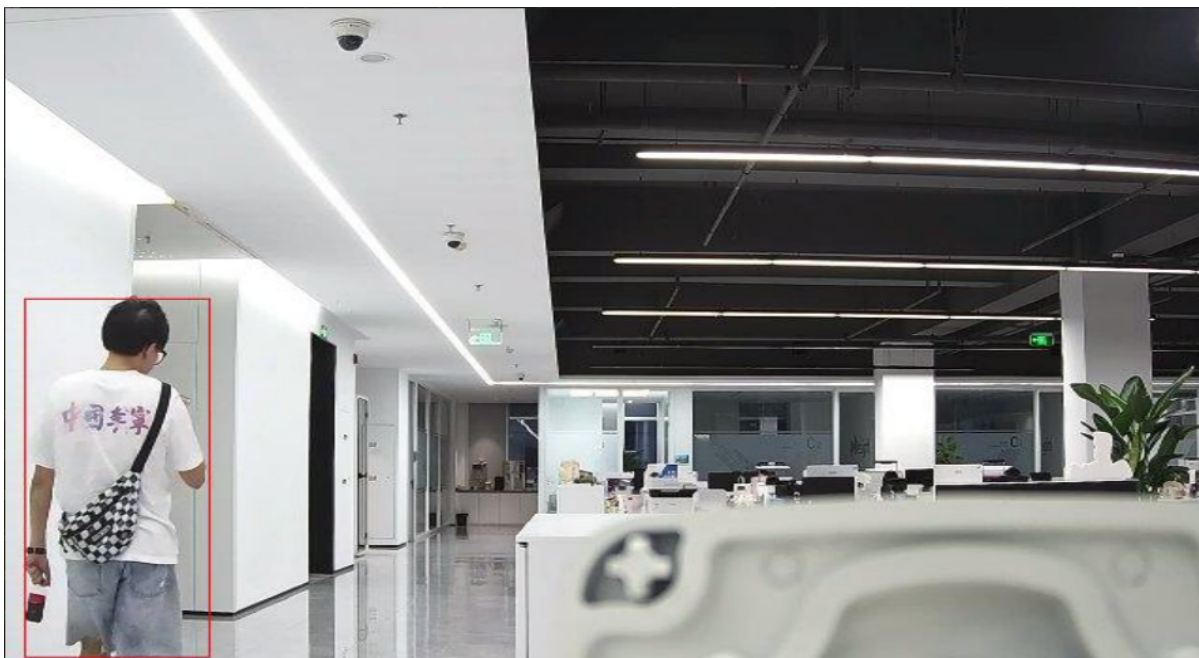
Users can search and back up Analytics results according to different object type, event type, start time and end time, which is convenient for users to check the Analytics results and greatly improves user experience.


The screenshot displays the MileSight VMS Analytics Result Search interface. The interface is divided into several sections:

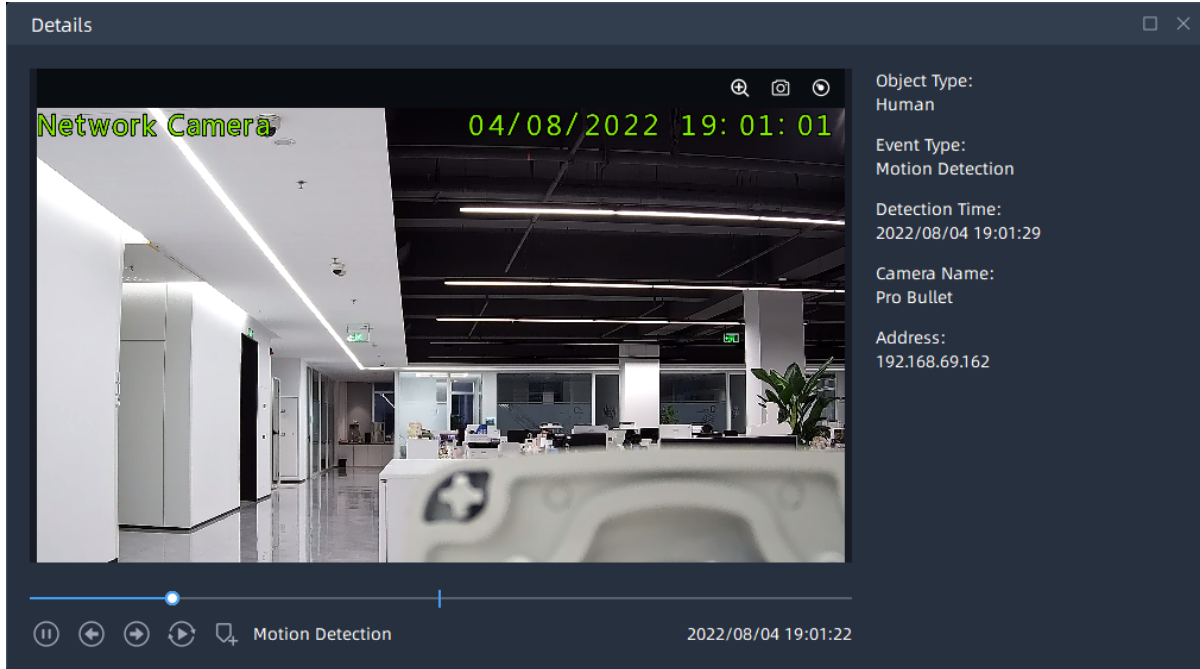
- Left Sidebar:** Contains navigation menus for ANPR (ANPR Management, ANPR Result Search, Traffic Report, ANPR Settings, Picture Storage), VMS-end People Counting (People Counting Settings, People Counting Groups, People Counting Report), VMS-end Video Analytics (Analytics Events, Analytics Result Search), Retrieve (Video Search), Face (Face+ Platform, Face Library, Face Rule, Face Result Search), and Third-party Connect (Access Control).
- Filter Panel:** Located on the left side of the main grid, it includes:
 - Start Time: 2022/10/13 00:00:00
 - End Time: 2022/10/14 23:59:59
 - Event Type: All
 - Object Type: All
 - Camera: < Any Camera >
- Main Grid:** A grid of video thumbnails showing detected objects with red bounding boxes. The thumbnails are labeled with event types such as 'Motion Detection' and 'Region Entrance'. Each thumbnail includes a timestamp.
- Bottom Status Bar:** Shows 'Selected: 0/210' and 'Total: 1768'. There are 'Reset', 'Search', and 'Export' buttons.



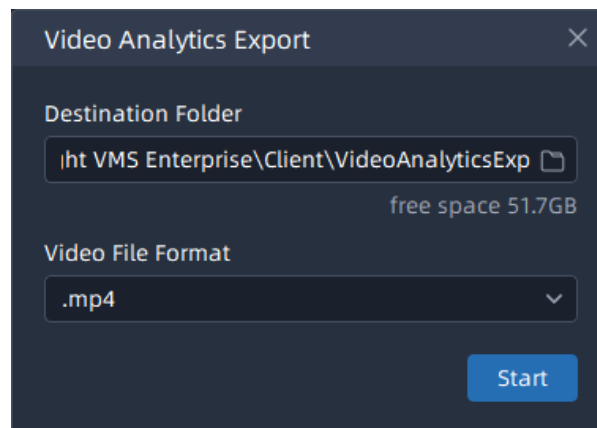
Step2: Click the  icon in the upper right corner of the result, it will display the entire snapshot including the detection frame as shown below:



And click the  icon 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.



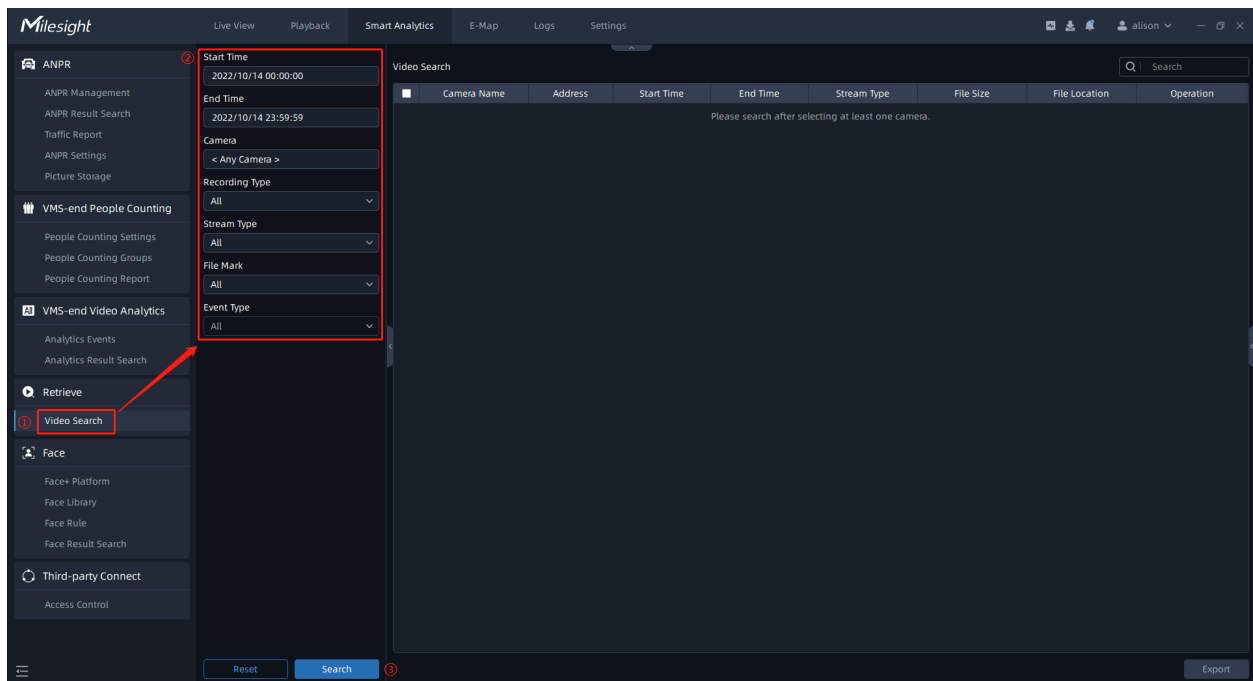
Step3: Select the detection result and click  button to back up the videos to the destination folder. Users can choose to back up the videos in mp4 or avi format.



6.4 Retrieve

6.4.1 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.



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.

Start Time

End Time

Camera

Recording Type


Stream Type

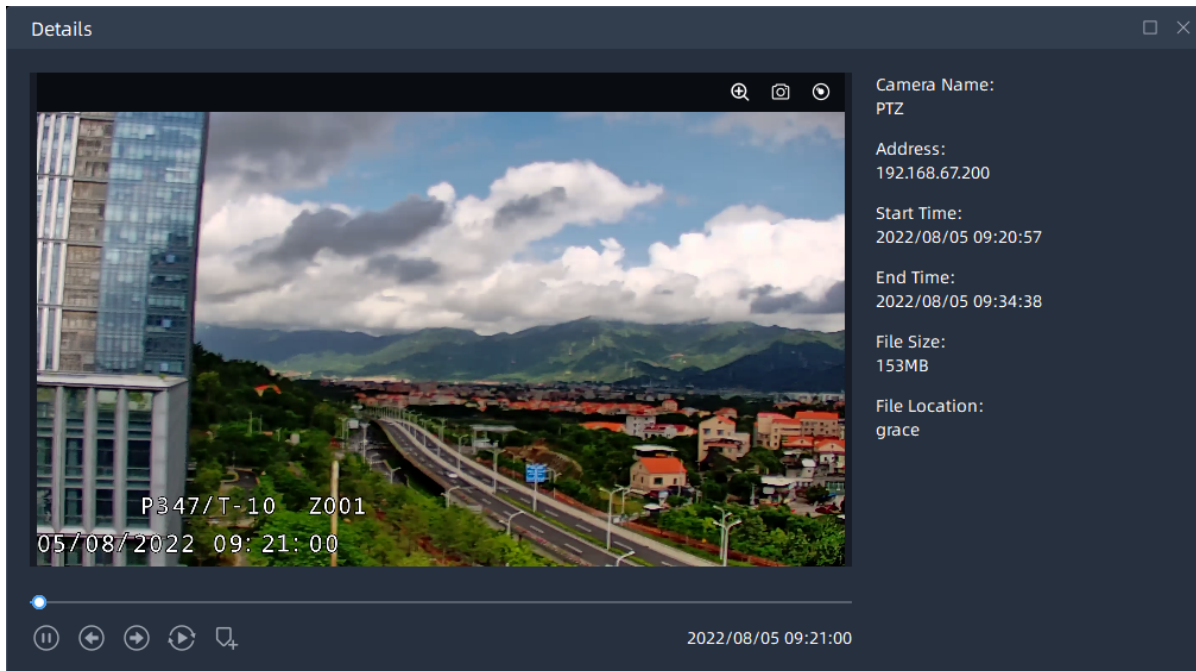
File Mark

Event Type

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	192.168.69.204	2022/08/04 15:13:10	2022/08/04 15:14:54	Primary Stream	52MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:12:48	2022/08/04 15:13:10	Primary Stream	10MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:12:44	2022/08/04 15:13:36	Primary Stream	38MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:11:59	2022/08/04 15:12:49	Primary Stream	36MB	grace	
Network Camera	192.168.69.156	2022/08/04 15:11:48	2022/08/04 15:35:38	Primary Stream	395MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:11:34	2022/08/04 15:12:04	Primary Stream	22MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:11:25	2022/08/04 15:12:49	Primary Stream	42MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:10:44	2022/08/04 15:11:38	Primary Stream	39MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:10:34	2022/08/04 15:11:25	Primary Stream	25MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:10:16	2022/08/04 15:10:38	Primary Stream	10MB	grace	
Camera2	192.168.201.10	2022/08/04 15:10:02	2022/08/04 15:14:18	Primary Stream	187MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:09:37	2022/08/04 15:10:16	Primary Stream	19MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:09:31	2022/08/04 15:10:37	Primary Stream	48MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:08:25	2022/08/04 15:09:36	Primary Stream	52MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:08:07	2022/08/04 15:08:26	Primary Stream	13MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:07:54	2022/08/04 15:09:10	Primary Stream	38MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:07:36	2022/08/04 15:08:10	Primary Stream	24MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:07:30	2022/08/04 15:07:56	Primary Stream	13MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:06:56	2022/08/04 15:07:36	Primary Stream	29MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:06:19	2022/08/04 15:07:00	Primary Stream	29MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:05:15	2022/08/04 15:06:00	Primary Stream	22MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:04:57	2022/08/04 15:05:15	Primary Stream	9MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:04:38	2022/08/04 15:05:27	Primary Stream	35MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:04:18	2022/08/04 15:04:59	Primary Stream	20MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:03:56	2022/08/04 15:04:22	Primary Stream	13MB	grace	

Step2: click the  icon in the list, you can check 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	Stream Type	File Size	File Location	Operation
Network Camera	192.168.69.156	2022/08/04 15:54:23	2022/08/04 16:14:51	Primary Stream	654MB	grace	
PTZ	192.168.67.200	2022/08/04 15:54:23	2022/08/04 15:54:52	Primary Stream	24MB	grace	
PTZ	192.168.67.200	2022/08/04 15:53:38	2022/08/04 15:53:59	Primary Stream	17MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:53:25	2022/08/04 15:54:27	Primary Stream	31MB	grace	
Network Camera	192.168.69.156	2022/08/04 15:53:04	2022/08/04 15:54:17	Primary Stream	19MB	grace	
Pro Bullet	192.168.69.162	2022/08/04 15:52:46	2022/08/04 15:54:30	Primary Stream	45MB	grace	
Network Camera	192.168.69.113	2022/08/04 15:52:35	2022/08/04 15:53:21	Primary Stream	33MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:52:35	2022/08/04 15:53:29	Primary Stream	27MB	grace	
Network Camera	192.168.69.204			ary Stream	20MB	grace	
Pro Bullet	192.168.69.162			ary Stream	13MB	grace	
PTZ	192.168.67.200			ary Stream	137MB	grace	
Network Camera	192.168.69.204			ary Stream	38MB	grace	
Network Camera	192.168.69.204			ary Stream	15MB	grace	
PTZ	192.168.67.200			ary Stream	27MB	grace	
Pro Bullet	192.168.69.162			ary Stream	47MB	grace	
Network Camera	192.168.69.113			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	Primary Stream	42MB	grace	
PTZ	192.168.67.200	2022/08/04 15:47:54	2022/08/04 15:49:53	Primary Stream	98MB	grace	
PTZ	192.168.67.200	2022/08/04 15:46:56	2022/08/04 15:47:51	Primary Stream	41MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:46:45	2022/08/04 15:48:42	Primary Stream	58MB	grace	
Pro Bullet	192.168.69.162	2022/08/04 15:46:20	2022/08/04 15:49:14	Primary Stream	80MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:45:38	2022/08/04 15:46:44	Primary Stream	33MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:45:16	2022/08/04 15:45:43	Primary Stream	13MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:45:04	2022/08/04 15:45:16	Primary Stream	6MB	grace	
PTZ	192.168.67.200	2022/08/04 15:44:40	2022/08/04 15:46:50	Primary Stream	106MB	grace	
Network Camera	192.168.69.204	2022/08/04 15:43:59	2022/08/04 15:45:05	Primary Stream	33MB	grace	

Video Search Export

Destination Folder
ht VMS Enterprise\Client\VideoSearchExport

File size 654MB, free space 51.8GB

Video File Format
.mp4

Start

Selected Files:1/835

Export

6.5 Face

Mileight VMS Enterprise is a centralized software platform that can work well with face recognition cameras to implement a face recognition solution.

Note: Currently it only supports Mileight Face Recognition camera.

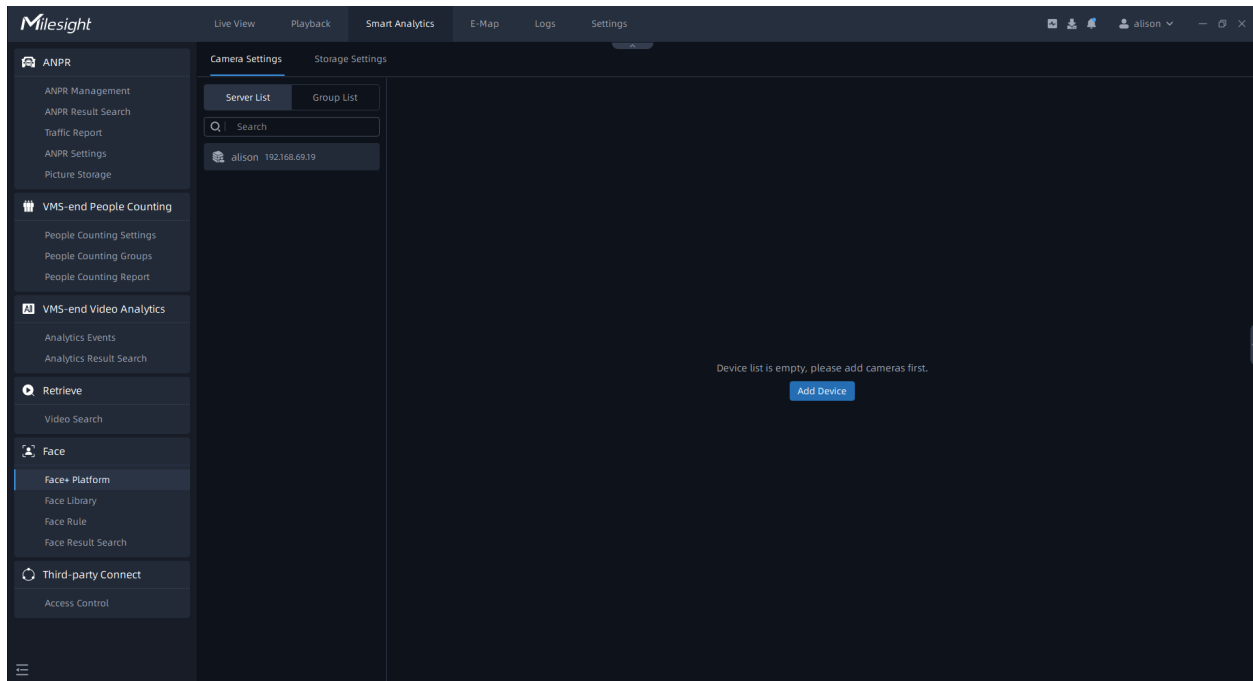
For Mileight face recognition camera, it supports face recognition, and compare the recognition results with the face database uploaded from VMS side, and then send the comparison results back to VMS. On the VMS side, it supports receiving, managing and storing comparison results centrally and customizing face rules with various action settings.

6.5.1 Face+ Platform

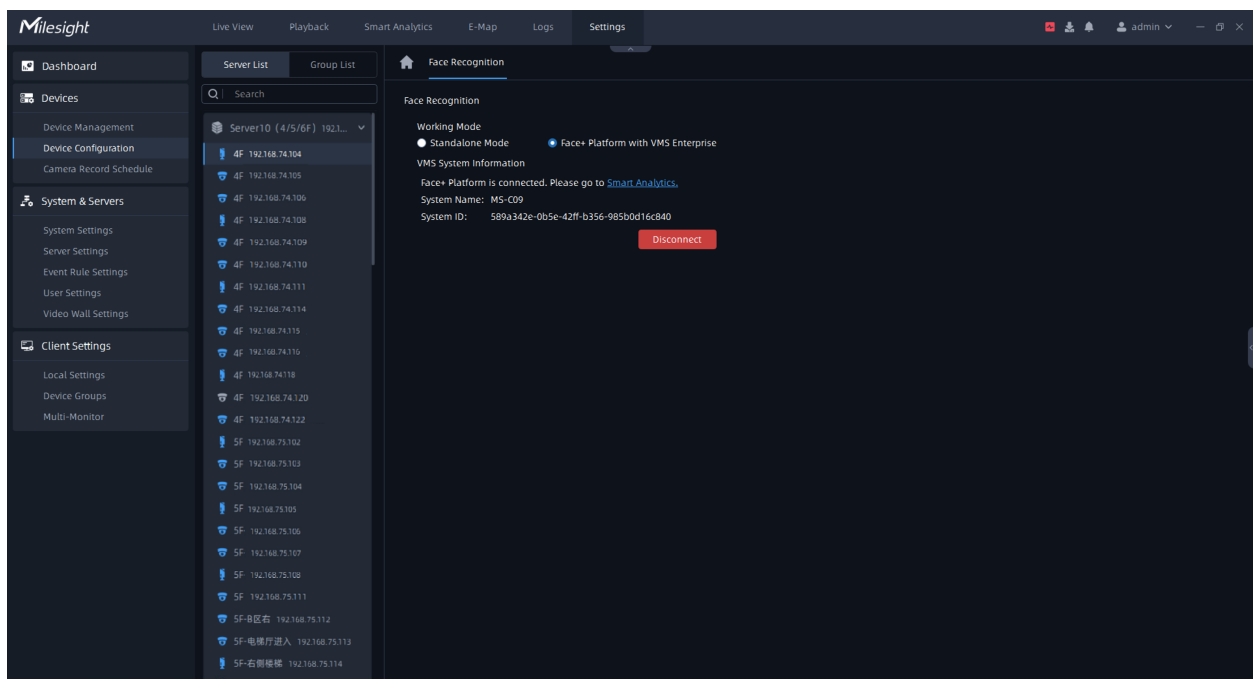
6.5.1.1 Camera Settings

Step1: Click button to jump to the device adding interface and add a Mileight face detection camera.

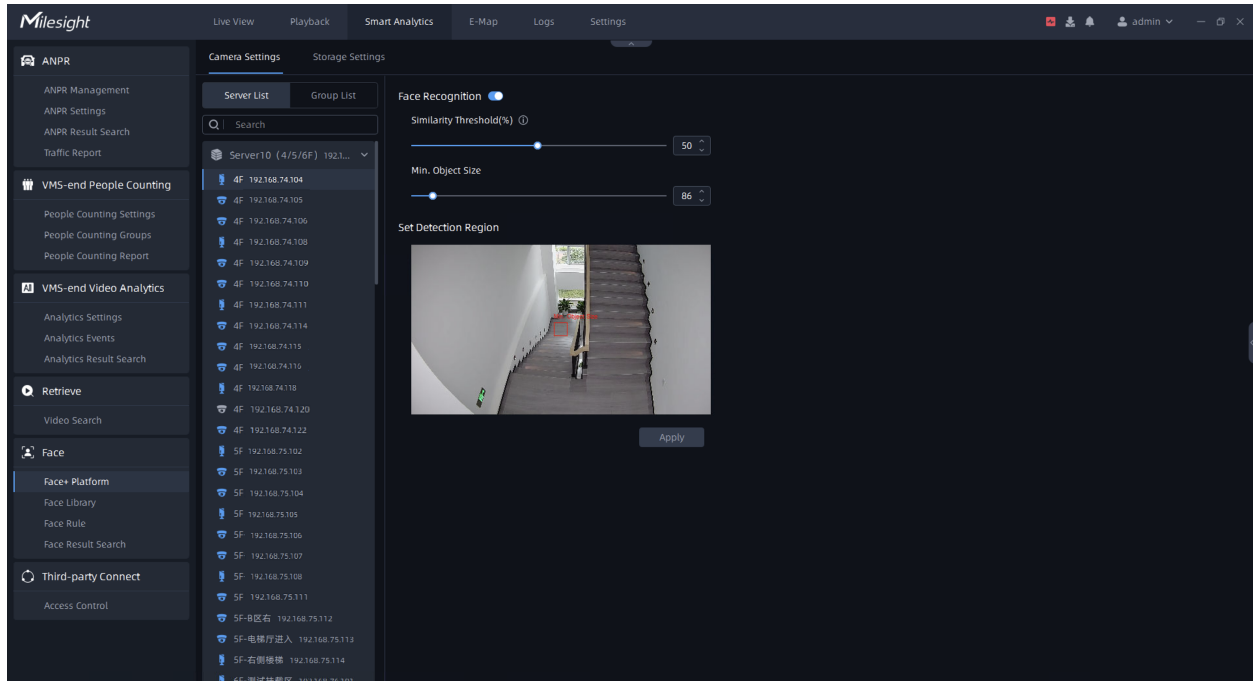
Note: For more information on how to add devices, please refer to: [Add Camera \(page 43\)](#).



Step2: After successfully adding the MileSight face recognition camera, go to "Settings" - "Device Configuration" - "Face Recognition" interface, and then set the camera working mode as "Face+ Platform with VMS Enterprise" to connect the camera to the system platform. It will display VMS System Information after connecting successfully.



Step3: Go back to "Smart Analytics" - "Face+ Platform" - "Camera Settings" interface, then you can configure the corresponding recognition settings for more accurate recognition results.



The meanings of the parameters in the interface can be referred to the table below:

Table 64.

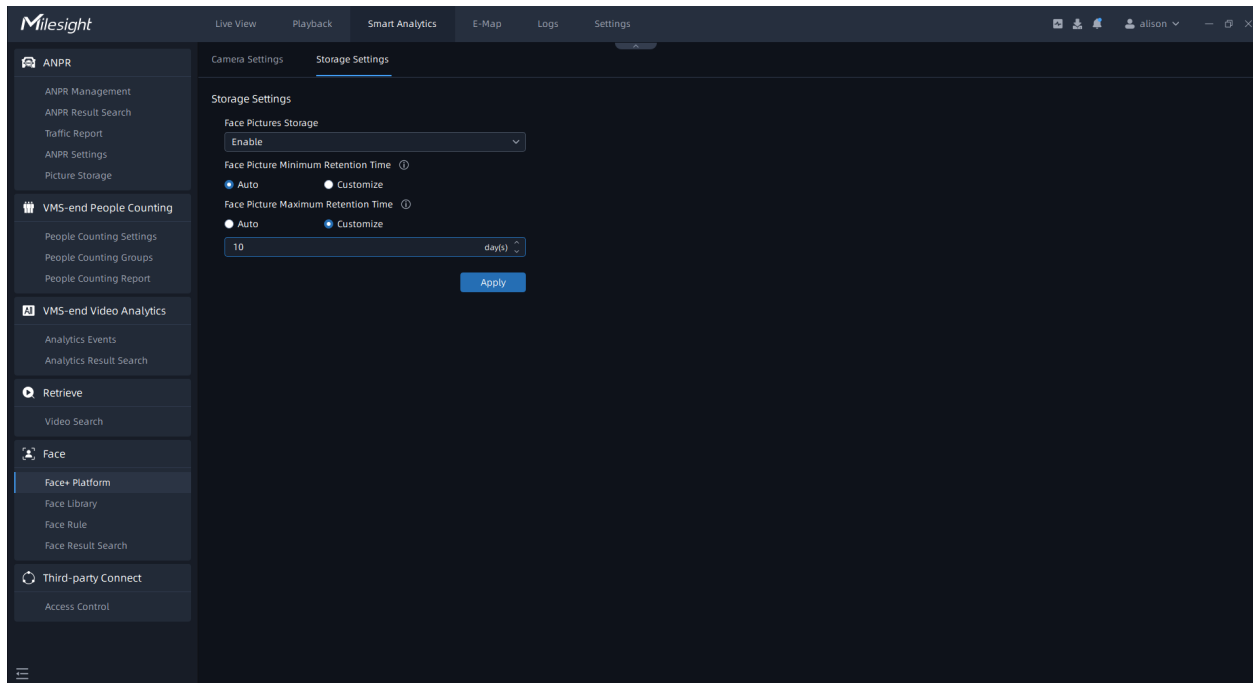
Parameter	Function Introduction
Similarity Threshold	Set the Similarity Threshold as needed. The range is 1% to 100%. If the comparison result is lower than this value, persons will be judged as Strangers.
Min. Object Size	Set Min. Object Size. It is only recognized when the target size is larger than the set value. And the object size of the set Min. value will be displayed as a red frame in the image for reference.
Set Detection Region	Set detection region. You can drag the detection region to adjust the region size. Only faces in this region will be recognized.

6.5.1.2 Storage Settings

Enable Face Pictures Storage to save face pictures to VMS side. 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.

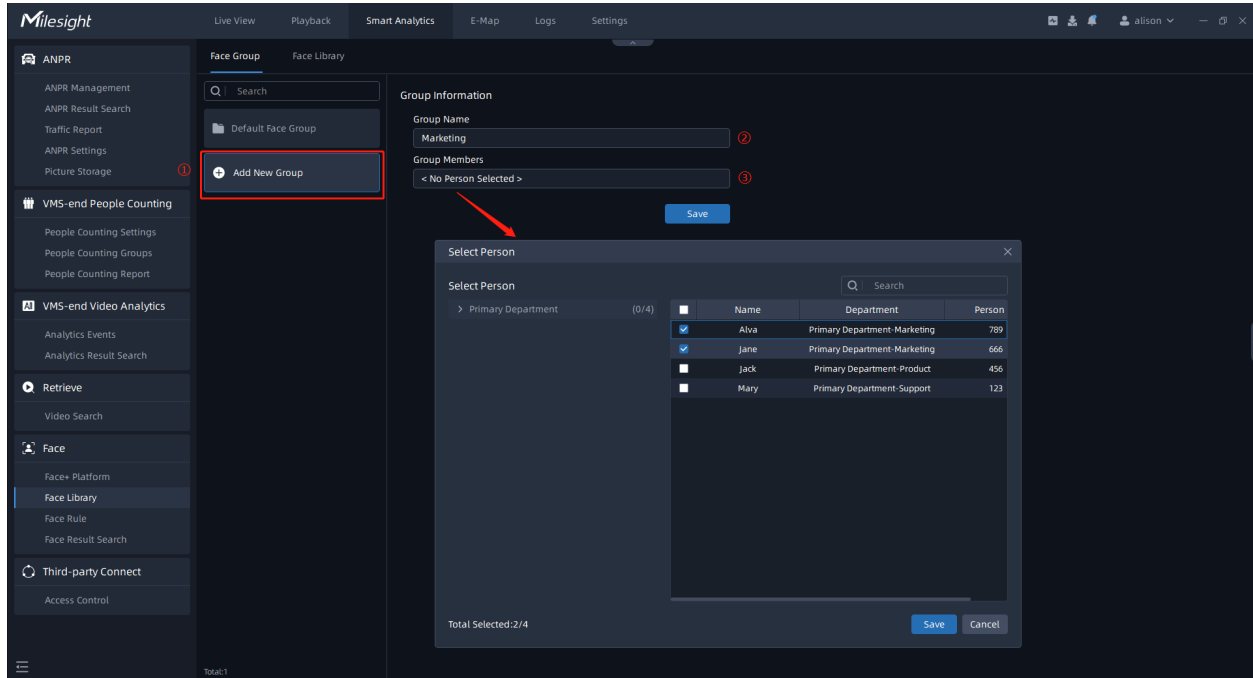
Users can search for face pictures in Face Result Search interface after enabling Face Pictures Storage.



6.5.2 Face Library

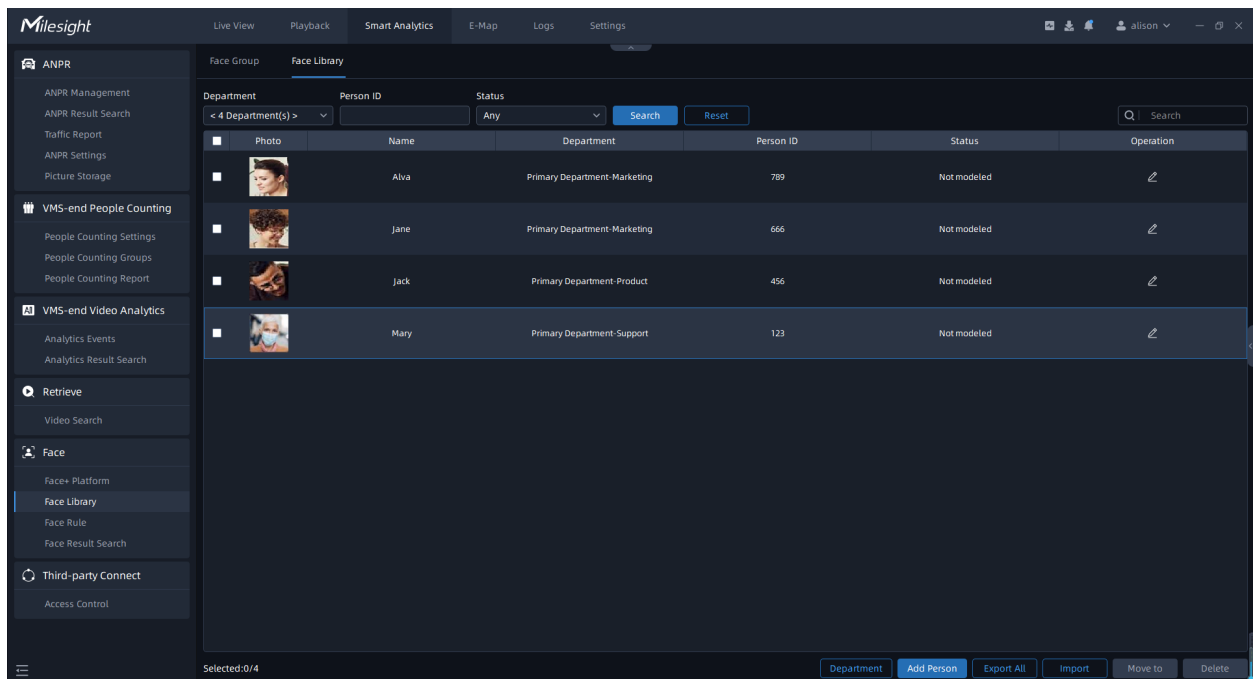
6.5.2.1 Face Group

Add Face Group to this interface. Click the "Add New Group" button, input the group name, then check the corresponding group members, and click "Save" to create the group successfully.



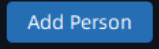
6.5.2.2 Face Library

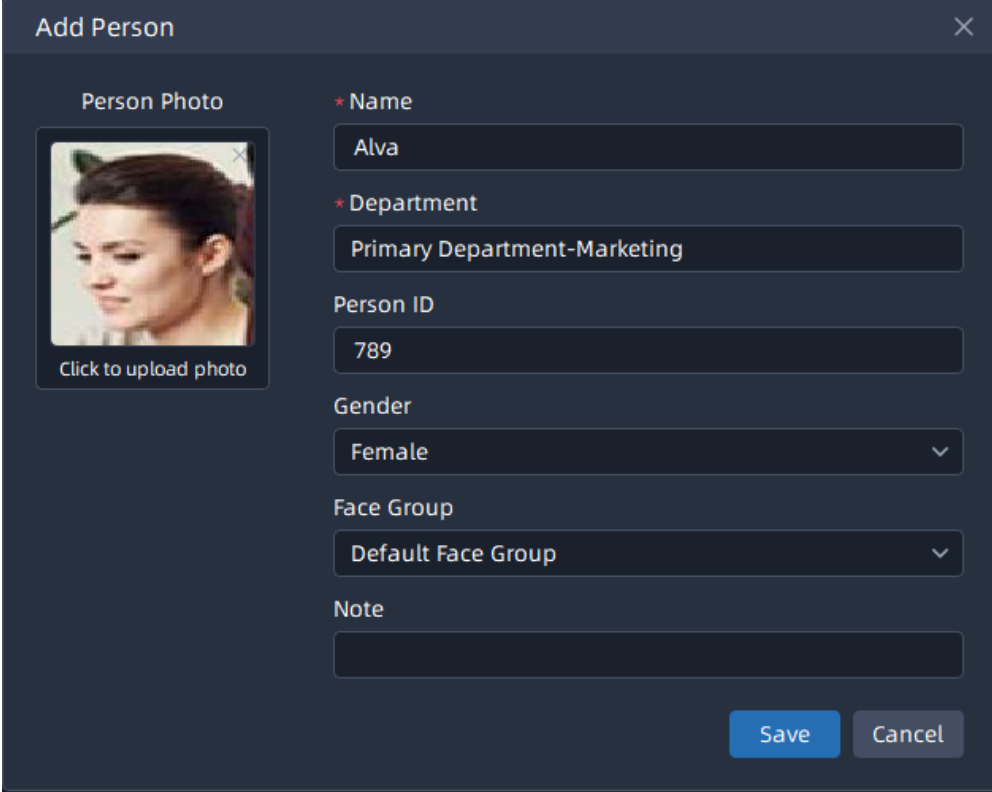
Add the face list to this interface. The added list will be automatically uploaded to the camera side, and the face recognized on the camera side will be automatically matched with the list, and then the matching result will be sent back to the VMS side.




You can choose either of the below two ways to add face list.

(1) Add Face List One by One

Step1: click  button to pop up a “Add Person” window as below:




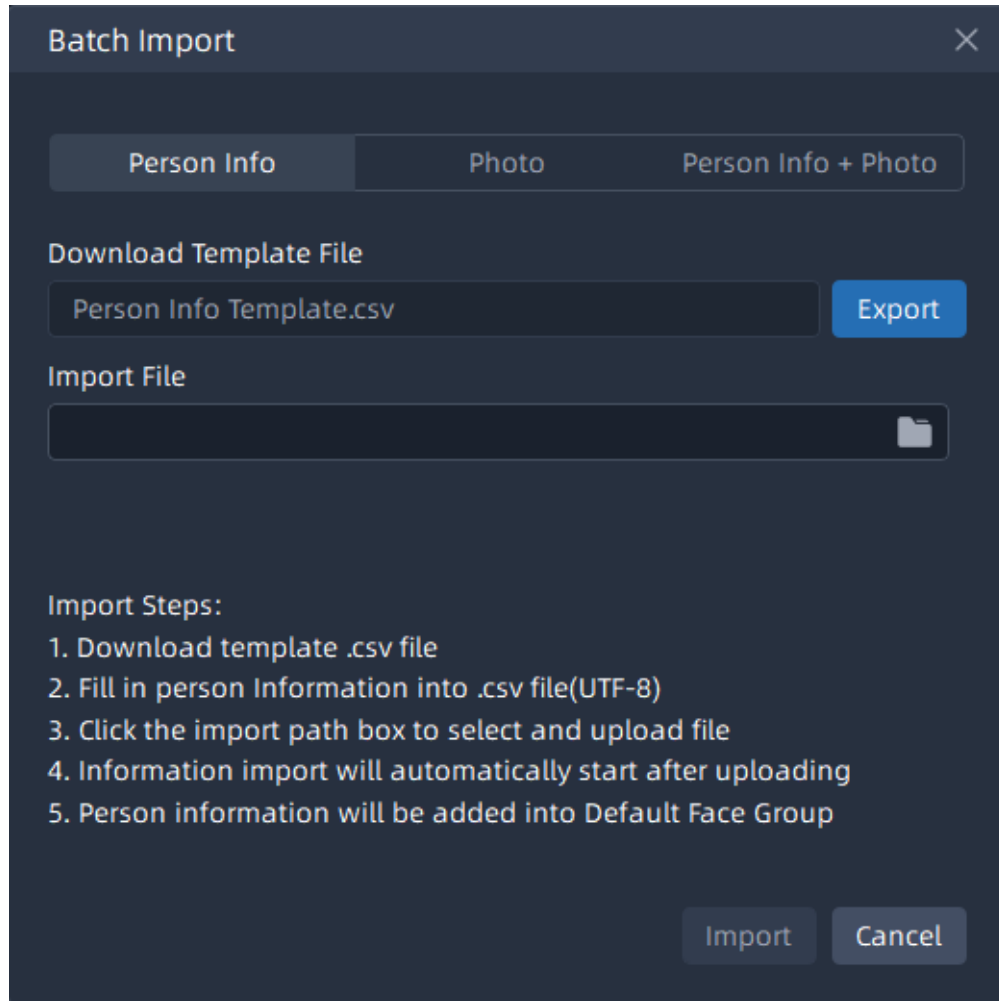
The screenshot shows a dark-themed dialog box titled "Add Person". On the left side, there is a "Person Photo" section containing a small image of a woman's face and a "Click to upload photo" button. To the right of the photo are several form fields: "Name" (with a red asterisk) containing "Alva", "Department" (with a red asterisk) containing "Primary Department-Marketing", "Person ID" containing "789", "Gender" (a dropdown menu) set to "Female", and "Face Group" (a dropdown menu) set to "Default Face Group". At the bottom right of the dialog, there are two buttons: "Save" and "Cancel".

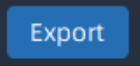

Step2: Input Name and Person ID, choose Department, Gender and Face Group, and then upload the person photo, click  button.

Step3: Repeat the Step1-2 to add other face list manually.

(2) Batch Import Face List

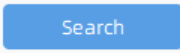
Step1: Click  button to pop up a window as shown below:

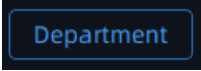
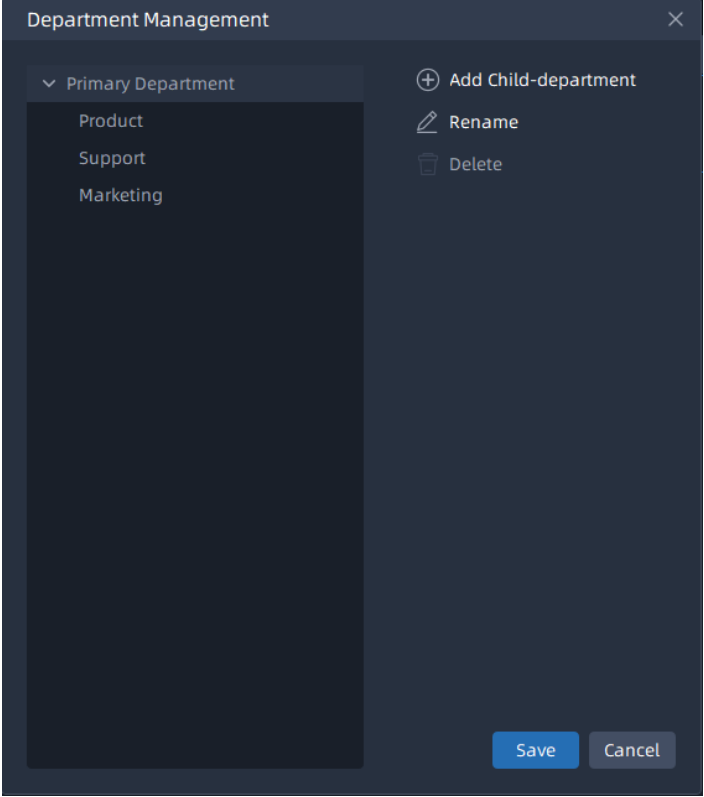
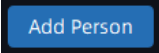
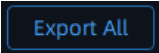
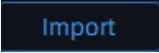
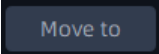
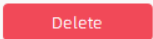


The imported file must be filled in according to the specified format. You can click  to download the template. After filling in, click  button to select the file, then click "Import" button.

The meanings of the parameters in the interface can be referred to the table below:

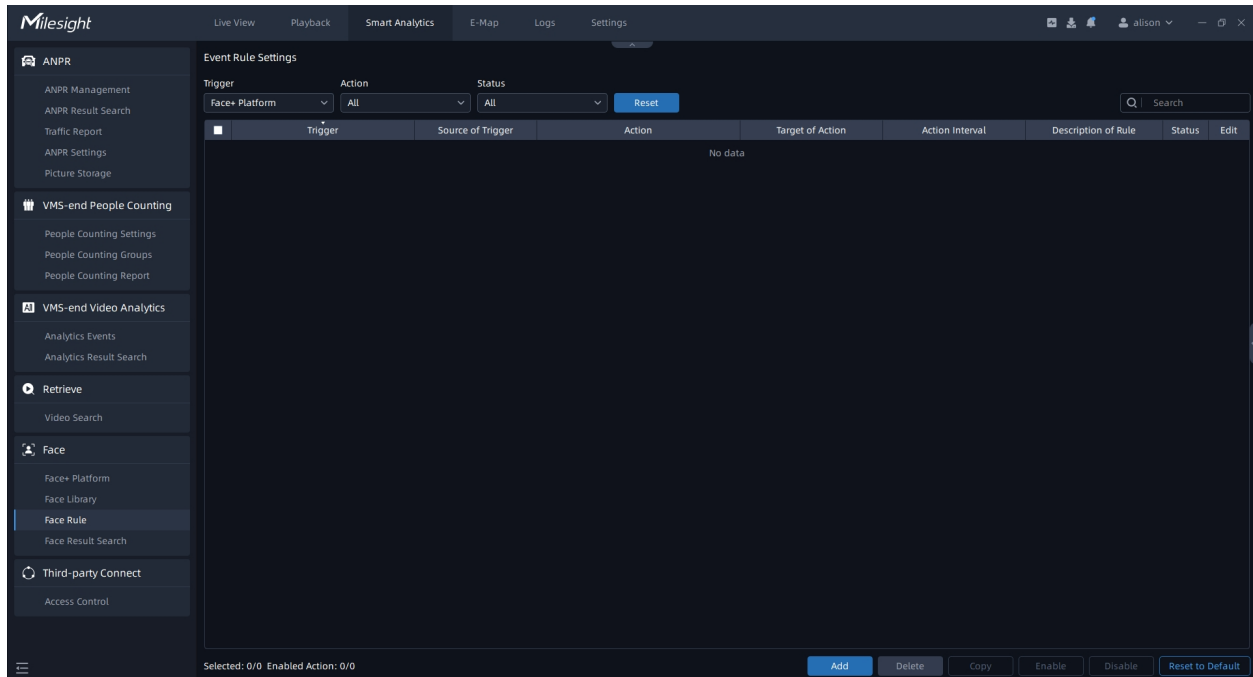
Table 65.

Parameter	Function Introduction
	Input Department, Person ID and Status, click the "Search" button, the corresponding face list will be displayed in the list below.

Parameter	Function Introduction
	<p>Click the "Department" button to pop up a "Department Management" window, users can add and delete child-department from this interface.</p> 
	<p>Add the face list one by one.</p>
	<p>Click the "Export All" button to export the faces in the current list to a csv form locally.</p>
	<p>Click the "Import" button to batch import the face list.</p>
	<p>Click the "Move to" button to move the selected face list to the corresponding group.</p>
	<p>Click the "Delete" button to delete all the selected faces in the current list.</p>

6.5.3 Face Rule

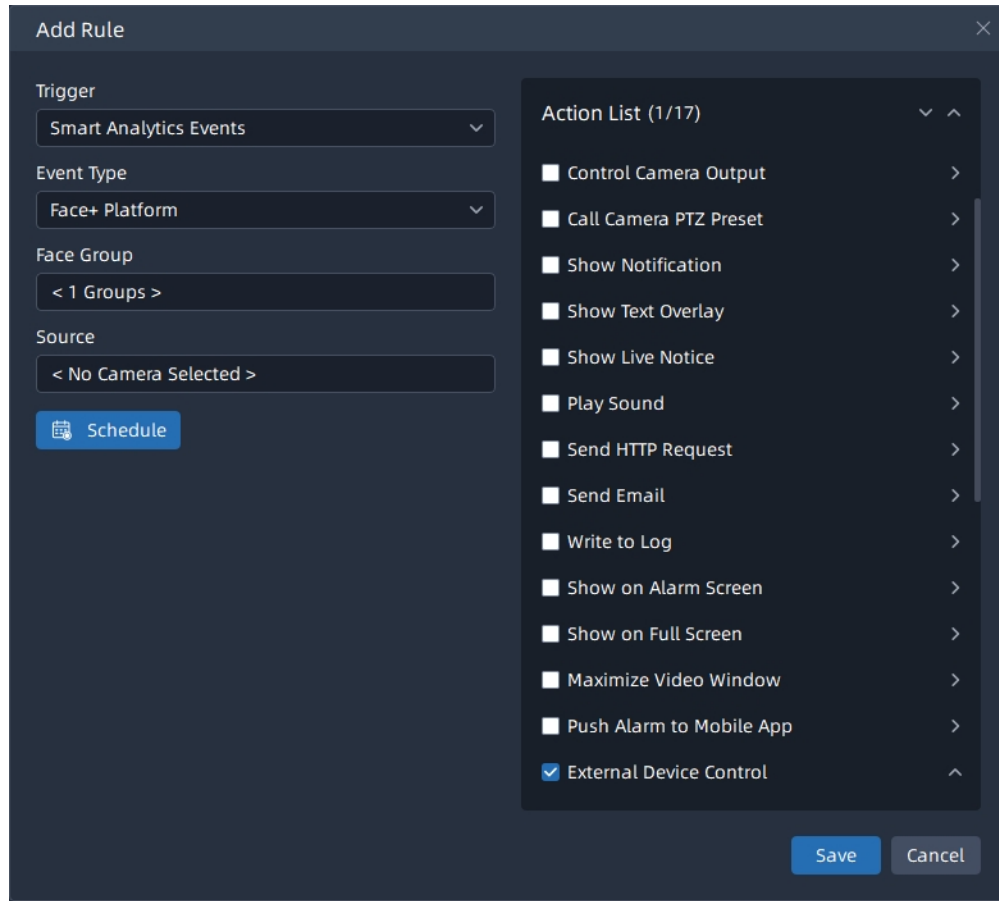
The VMS supports customizing face rules with various action settings. The added face rules will be listed in the list, then you can directly check the details of face rules in the list.



The steps of adding event rule are shown as below:

Step1: Click  button to add event rule.

Step2: Set event rules. Select the event trigger type as Face+ Platform, select the face group and the corresponding camera, 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 [Alarm Action \(page 170\)](#).



Here take "External Device Control" as an example, if you have added an access control device, it supports triggering the door opening or closing according to different face groups to achieve access control management.

 **Note:** For more information about Access Control, please refer to [6.6.1 Access Control \(page 336\)](#).

Modify Rule

Trigger
Smart Analytics Events

Event Type
Face+ Platform

Face Group
< 1 Groups >

Source
< Any Camera >

Schedule

Action List (2/17)

External Device Control

Action Interval
 Instant Customize

Device Source
Third-Party Connect

Device Type
Access Control

Door Group
Default Door Group

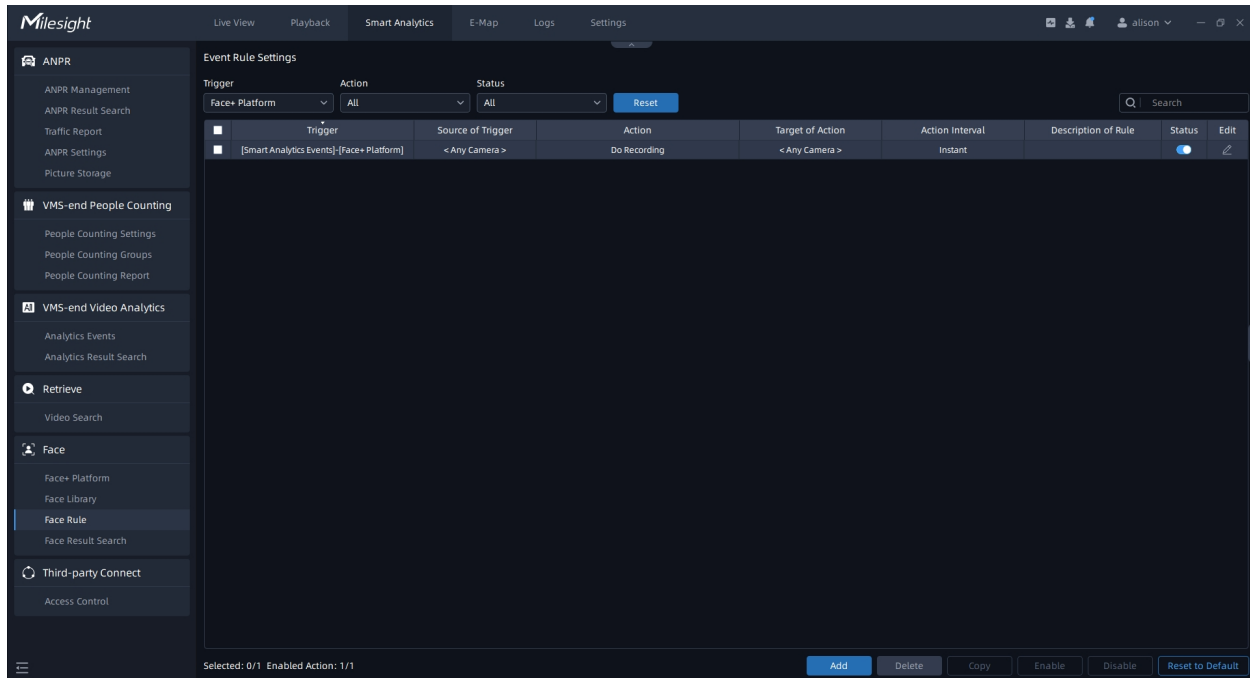
Door
Please select at least a door.


Do Action
Open




Description of Rule
A brief description as needed

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.



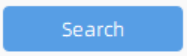
Step4: You can also click  button, or double click event rule row in the list to modify the selected event rule. Then click again the “Save” to apply the modified event rule.

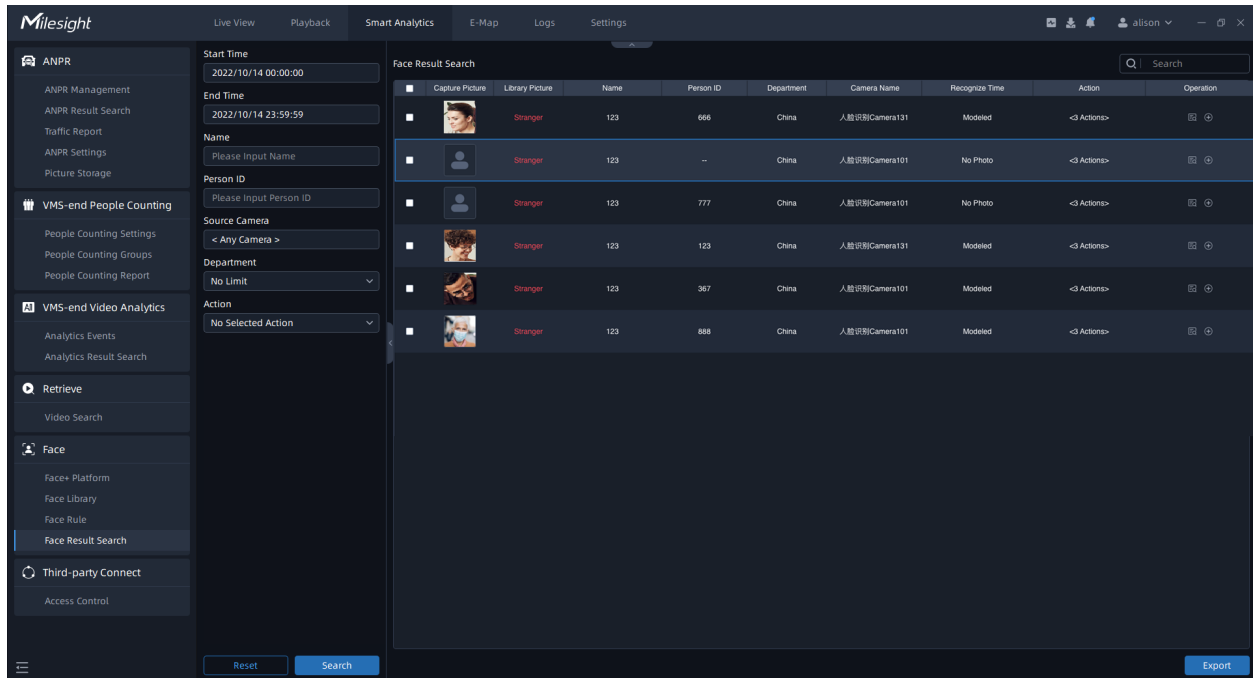
Step5: Check the corresponding event rules, and then click the  or  button to enable or disable the event rules in batches. You can also click the  button to reset the event rules to the default, then the manually added rules will be deleted.

6.5.4 Face Result Search

The real-time detection results will be displayed in the center of the Face Result Search page, including Capture Picture, Name, Person ID, Department, Recognize Time, etc.

Select Time, Name, Person ID, Source Camera, Department, etc., and the related face information



will be displayed as below by clicking  button.

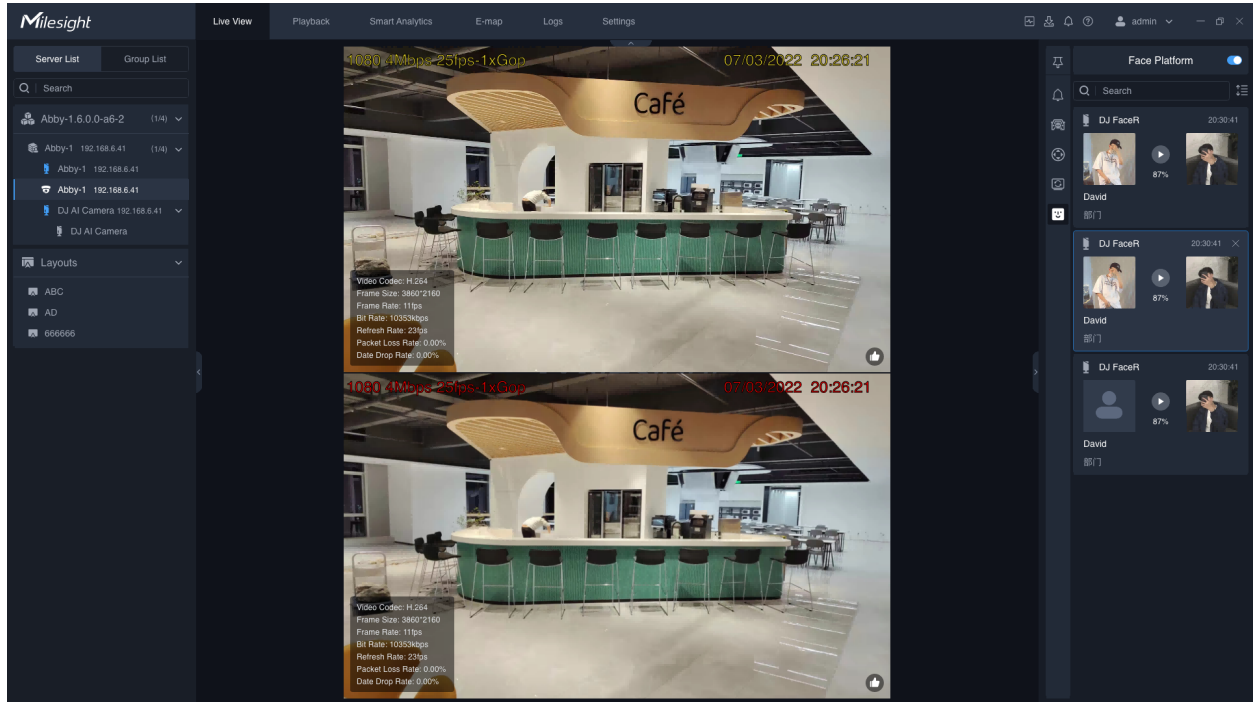


The screenshot shows the MileSight VMS interface with the 'Face Result Search' panel active. The panel includes a search bar and a table of results. The table has the following columns: Capture Picture, Library Picture, Name, Person ID, Department, Camera Name, Recognize Time, Action, and Operation. The results are as follows:

Capture Picture	Library Picture	Name	Person ID	Department	Camera Name	Recognize Time	Action	Operation
		Stranger	123	666	China	人脸识别Camera131	Modeled	< Actions >
		Stranger	123	--	China	人脸识别Camera101	No Photo	< Actions >
		Stranger	123	777	China	人脸识别Camera101	No Photo	< Actions >
		Stranger	123	123	China	人脸识别Camera131	Modeled	< Actions >
		Stranger	123	367	China	人脸识别Camera101	Modeled	< Actions >
		Stranger	123	888	China	人脸识别Camera101	Modeled	< Actions >

6.5.5 Face Preview

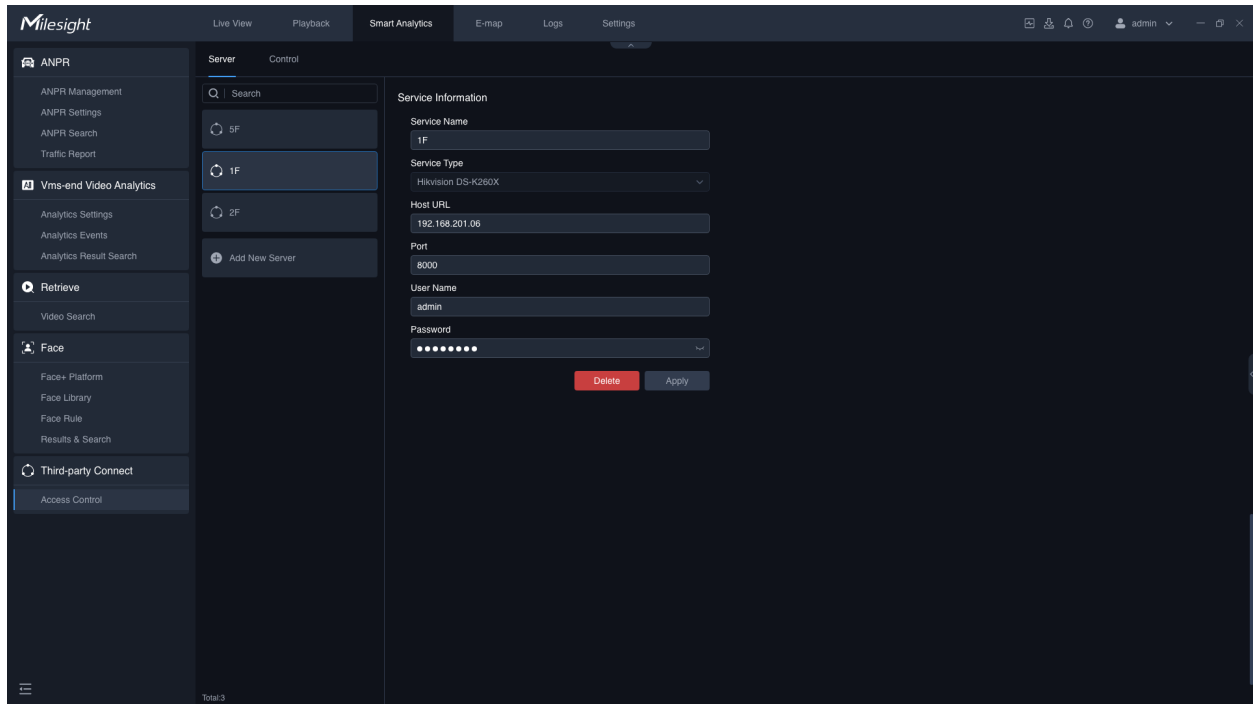
After completing the face settings, you can preview the recognition results which are pushed by the front-end device in the live view interface. You can click the  button to go to the face preview panel, only when you click the  icon, you will receive a message about face detection in the panel, the preview page is as below:



6.6 Third-party Connect

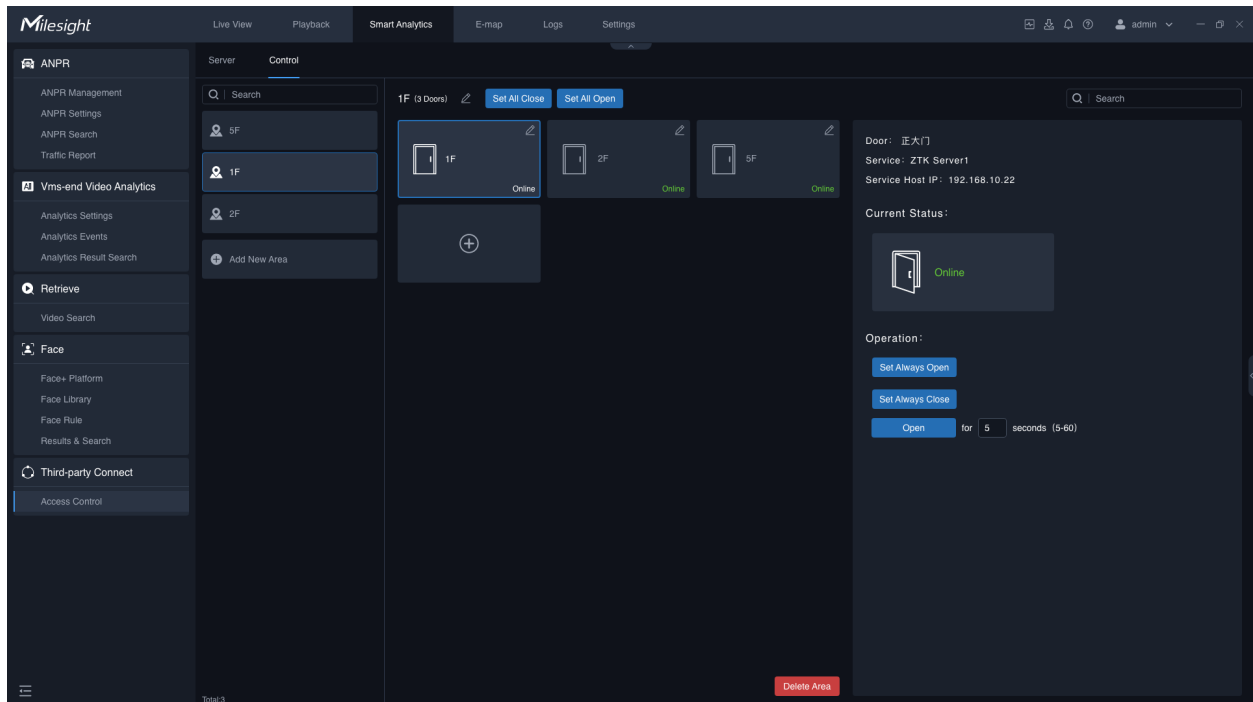
6.6.1 Access Control


Here you can add third-party access control device, then it supports triggering the corresponding alarm actions based on external device events.

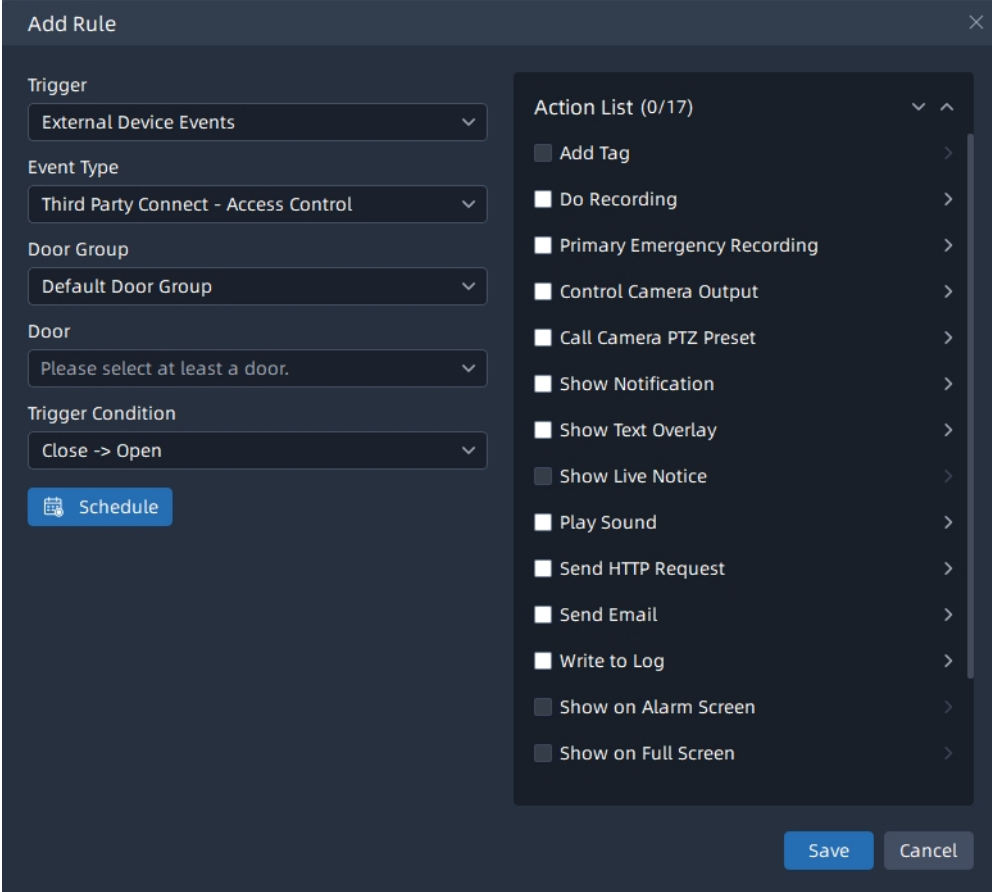


Step1: Click the "Add New Device" button, input the Service Name, Host URL, Port, User Name and Password, and click the "Connect" button to connect to the device successfully.

Note: Currently it only supports the DS-K260X model of Hikvision. If you have compatibility requirements, please contact technical support.



Step2: Go to Settings - Event Rule Settings interface, Click  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 [Alarm Action \(page 170\)](#).



Add Rule


Trigger
External Device Events

Event Type
Third Party Connect - Access Control

Door Group
Default Door Group

Door
Please select at least a door.

Trigger Condition
Close -> Open

 Schedule

Action List (0/17)

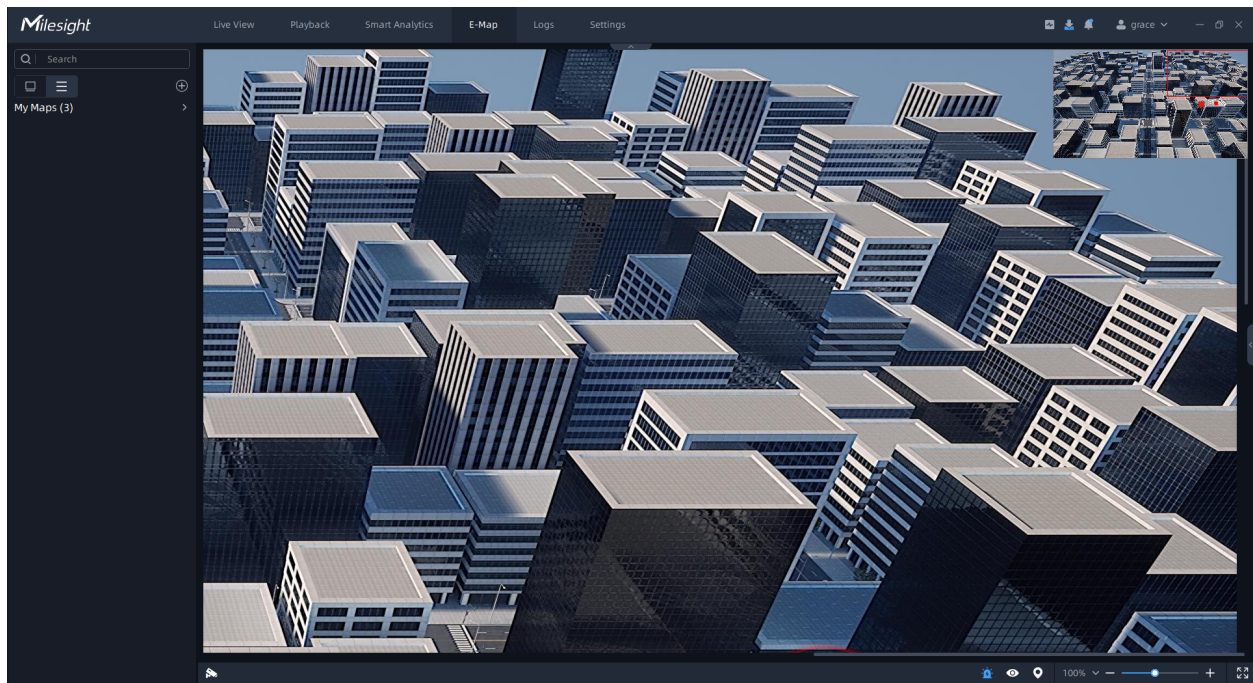
- Add Tag
- Do Recording
- Primary Emergency Recording
- Control Camera Output
- Call Camera PTZ Preset
- Show Notification
- Show Text Overlay
- Show Live Notice
- Play Sound
- Send HTTP Request
- Send Email
- Write to Log
- Show on Alarm Screen
- Show on Full Screen

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. 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?

Step1: You can click  button in the left panel to add a new map. A window will pop up as shown below:

Create New Map

Map Name

New Map

Background Picture

Click to select a background picture

Map Size

According to Background Picture Size

Customize 2000 x 2000

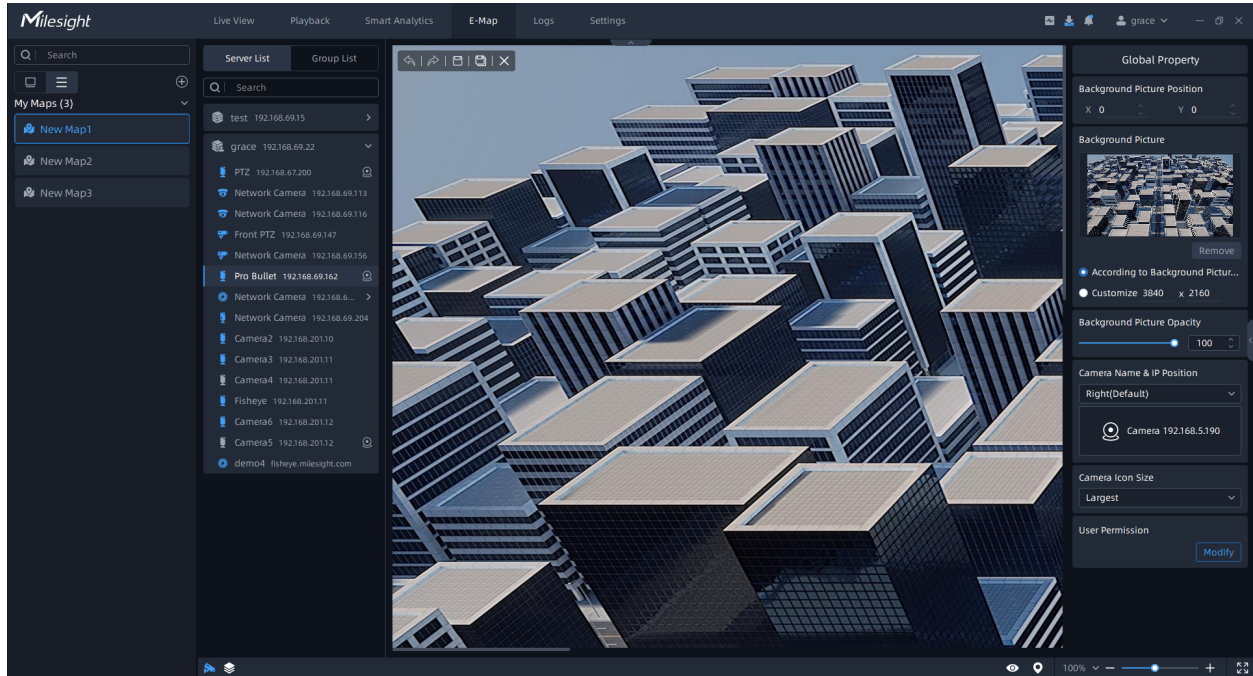
Creator


grace


This Map will be shared with Owner by default.

Create Cancel

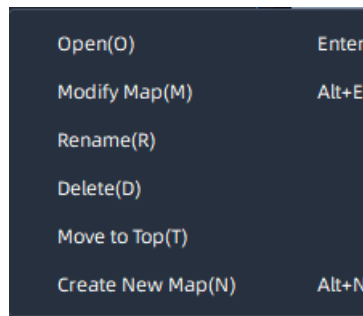
Step2: Name the new map. When Map Size is selected as According to Background Picture Size, you need to click the “Click to select a background picture” to upload a background picture. When Map Size is selected as Customize, you can set the size as needed and don’t need to upload a background picture. 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:



 **Note:** Please choose a picture less than 8MP or 4K resolution.

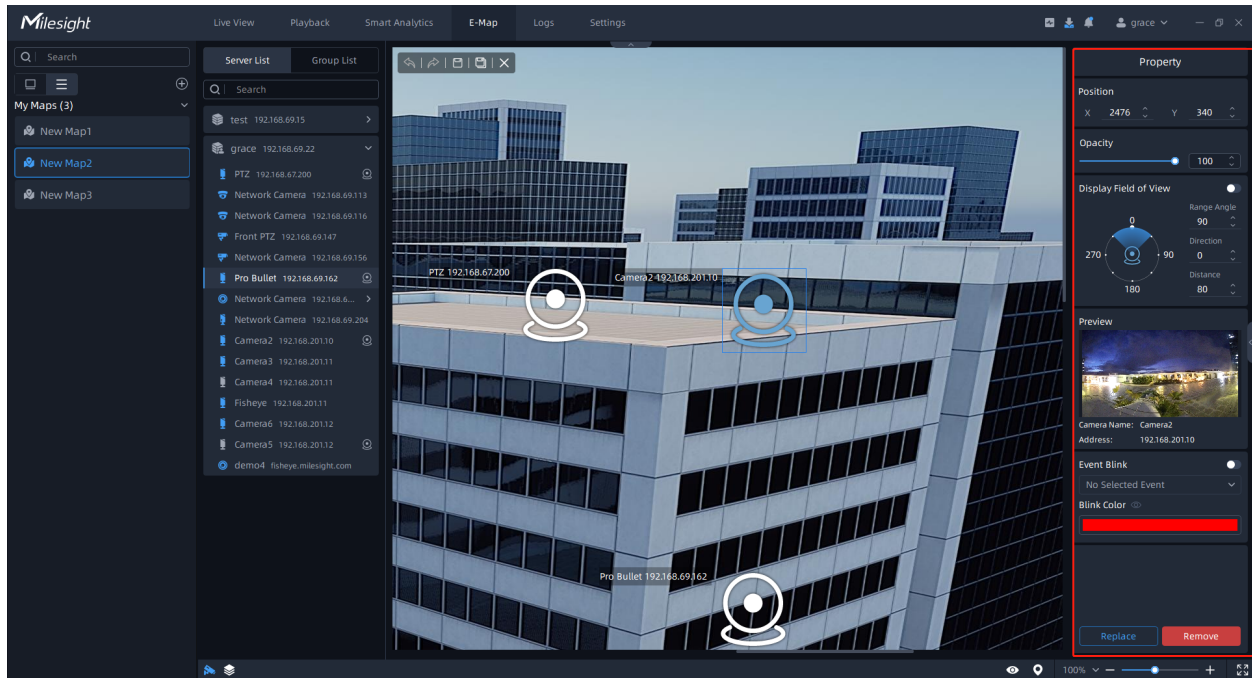
In the left panel, you can click  to set whether to display the list as thumbnails or text.

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.



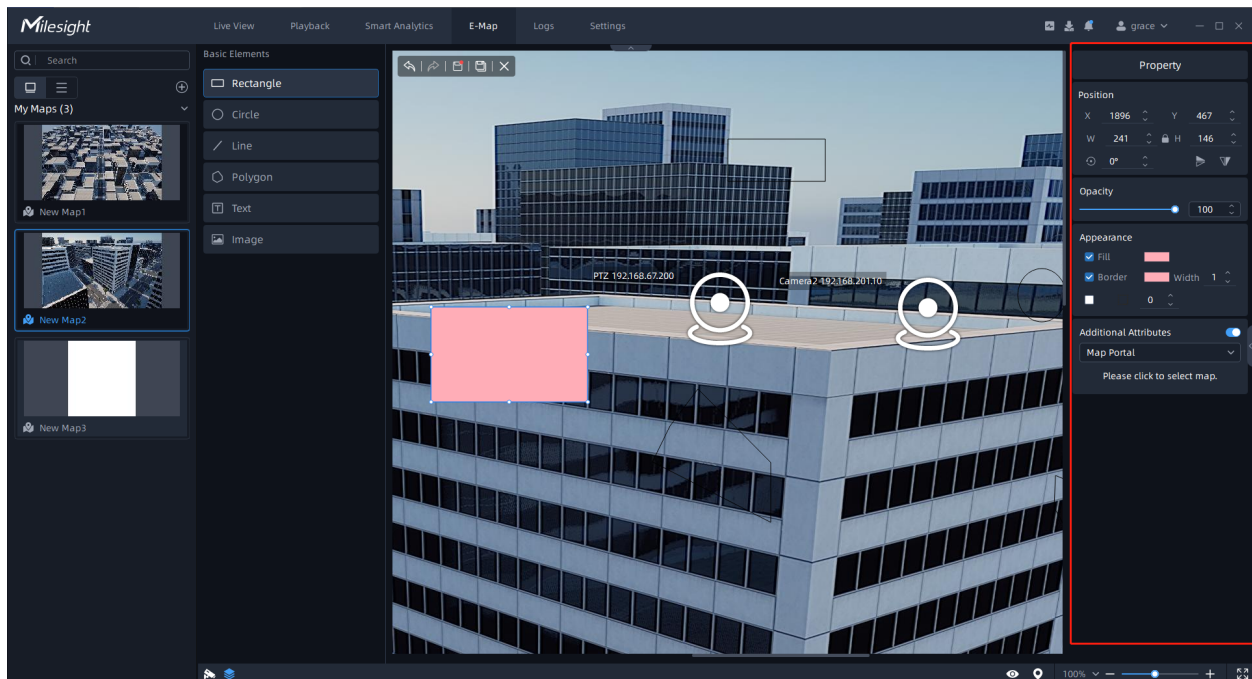
In the Global Property panel, you can set Map Size, Background Picture Opacity, Camera Name & IP Position, and Camera Icon Size in the right panel.

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.



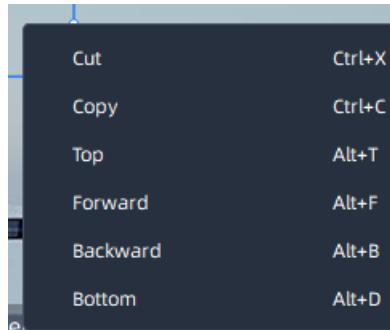
For Event Blink, you can select events as needed and set the Blink Color. When an event occurs on the camera, it will flash with the corresponding color as a reminder.






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.




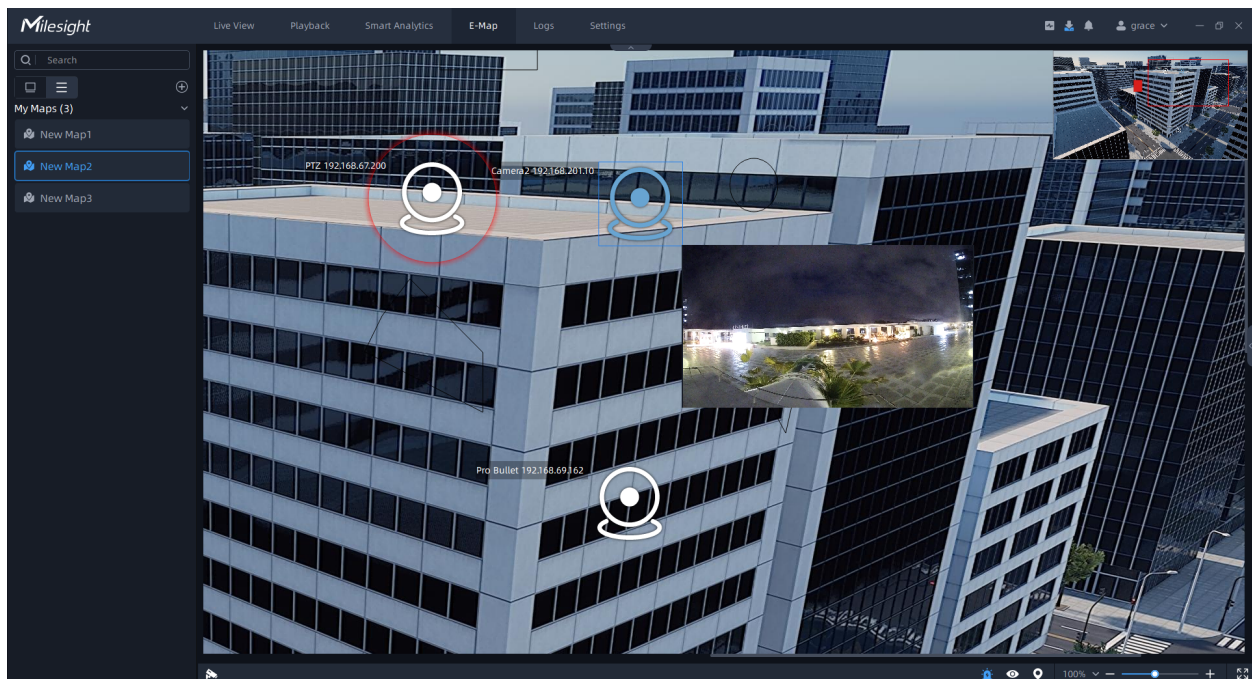
For rectangles, circles, and polygons, it can be set as a portal. Enable Additional Attributes and click to select added maps.

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.

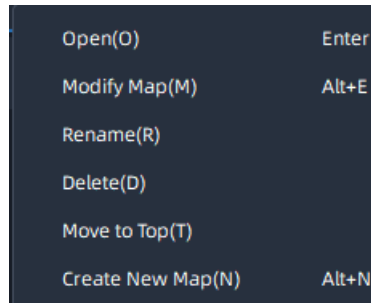



Step5: When setting, you can click  button to undo an action or click  button to redo an action. After setting, you can click  button to save your settings for the map or click  button to save as a new map. And click  button to exit edit mode and view the added map.

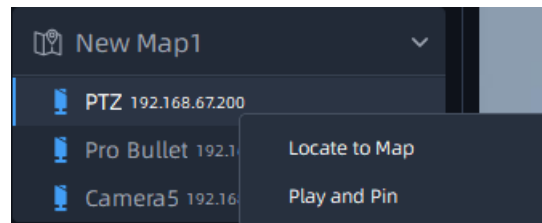
Step6: After saving the settings and exiting the edit mode, you can double-click the map to switch to view. And you can click  icon to preview the live view of cameras and use top toolbar of the thumbnail window. Also you can click the element to jump to the corresponding map.




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.



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.

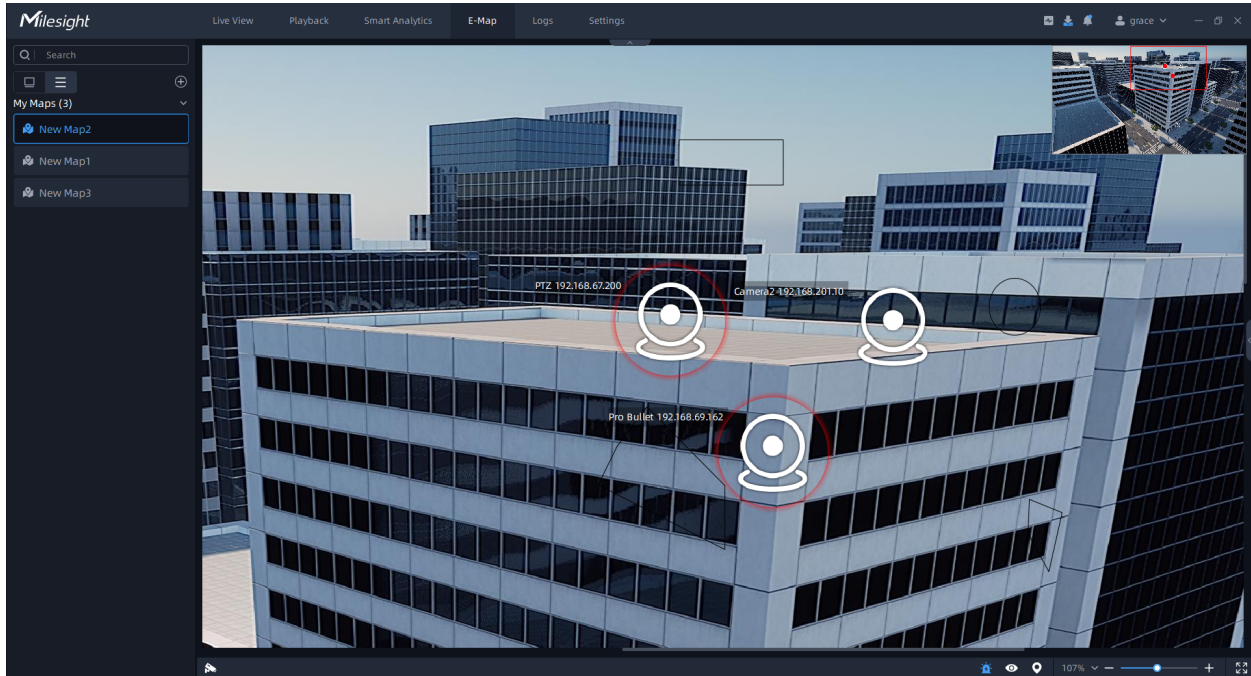


Event Blink

Click  button to set whether to display event blinking as below:




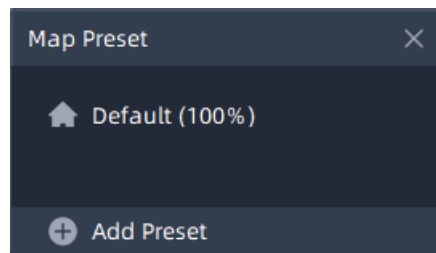
If enabled, thumbnails will be displayed in the upper right corner. When an event occurs on the camera which has set event blink, it will flash with the corresponding color as a reminder.




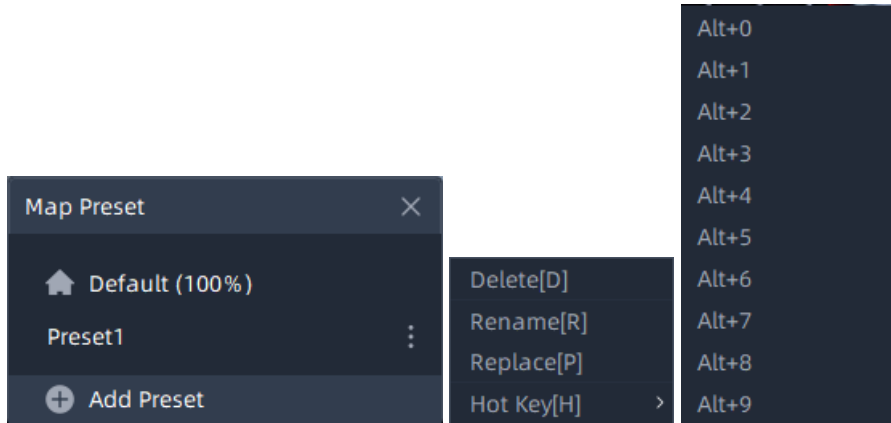
Map Preset

Map Preset can help user locate the specified position quickly.

Click  button 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  to set operation about presets in the pop-up operation window including Delete, Rename, Replace and Hot Key.

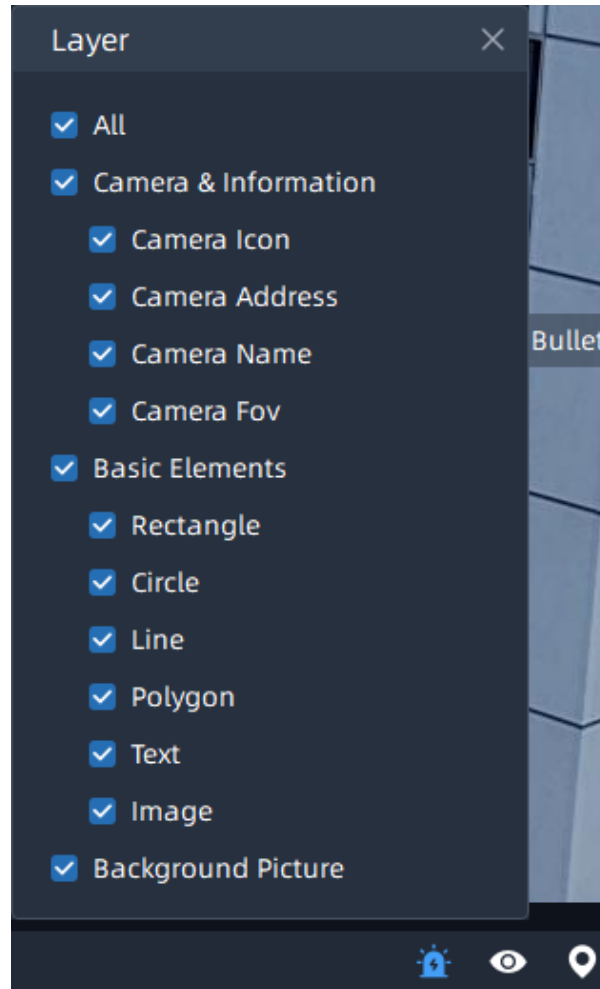


 **Note:**

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.



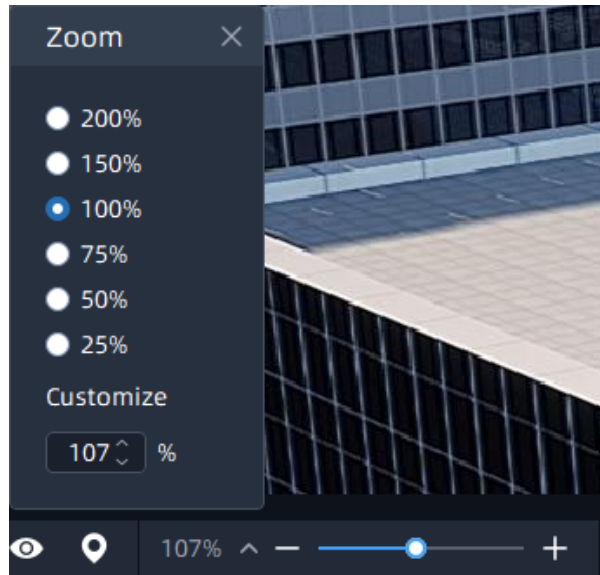
Map Proportion Zoom


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



button, customizing zoom proportion as shown below or using the mouse wheel to adjust the map size.



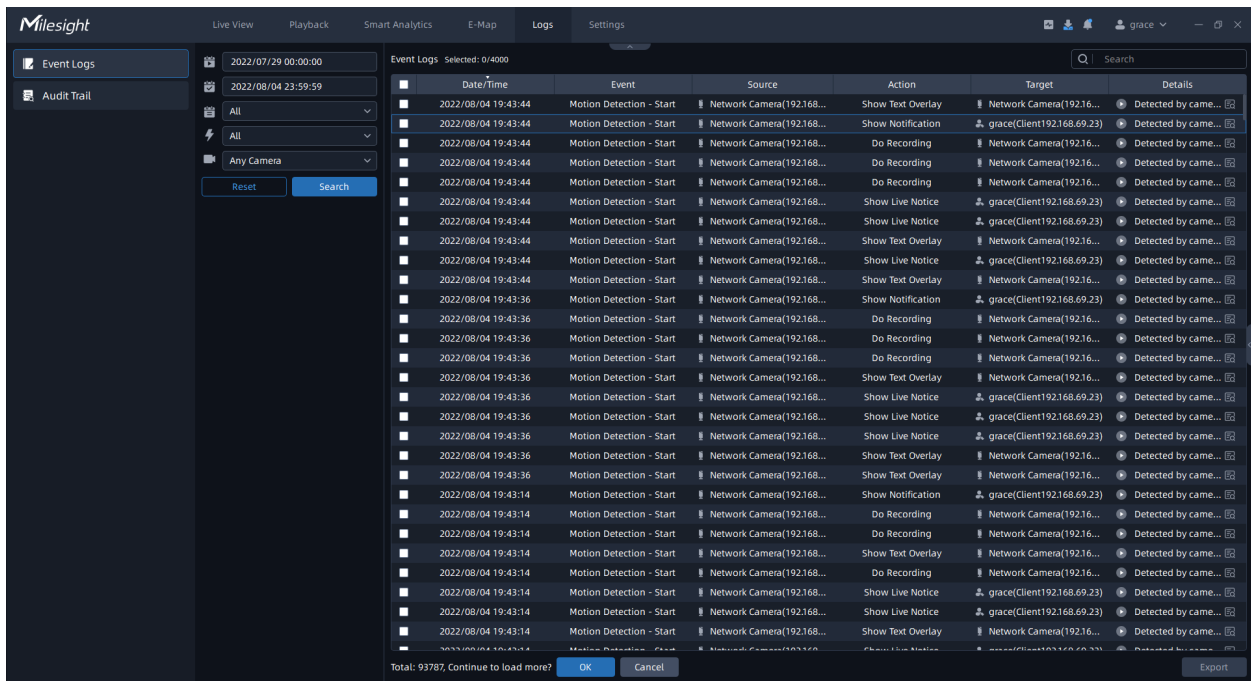
 **Note:** Apart from the background picture, the icons and texts added in map both are involved in Zoom in/out.

Chapter 8. Logs

There are two parts in the Logs window, including Event Logs and Audit Trail. Here you can check, search and export the interested logs.

8.1 Event Logs

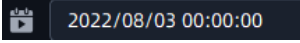
Once the event rules which you set take effect, you can check the event information in the event logs. The event logs contain the event information about Date/Time, Event, Source, Action, Target and Details. The Event Logs page is as below:





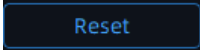




You can set filter condition as you need.

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

Table 66.

Item	Function Introduction
 <p>Start Time</p>	<p>Start filter time.</p>

Item	Function Introduction
 2022/08/09 23:59:59 End Time	End filter time.
 All Trigger	The Event trigger types.
 All Action	The Event Action types.
 Any Camera Camera	Choose the cameras with the events triggered.
	Click the button to reset the setting filter condition.
	Input content to search the matched logs.
	Export the log file.


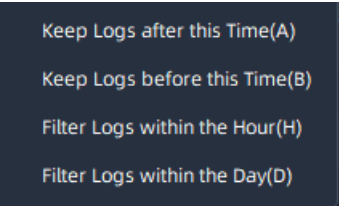
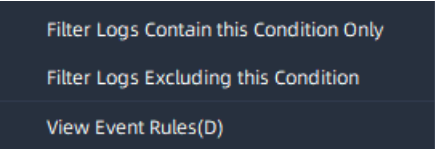
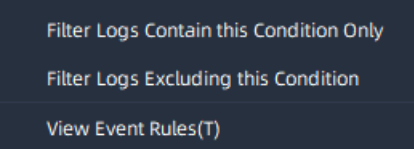
If there is a recording video information about event, then user can click  to check the event video as below:

Table 67.

Item	Function Introduction
Date/Time	<p>The Date/Time varies with selected event logs. Here there are several options available as shown below to help you precisely find logs which you want.</p>  <p>Keep logs after this time: Click the option to search all logs after this time.</p> <p>Keep logs before this time: Click the option to search all logs before this time.</p> <p>Filter logs within this time: Click the option to search all logs within this time.</p> <p>Filter logs within this day: Click the option to search all logs within this day.</p>
[Source]	<p>The [Source] varies with selected event logs. Here you can choose to filter logs including this condition only or excluding this condition. Click the “View event rules” to jump to the interface of Event Rule Settings (page 154) to view the corresponding rule.</p> 
[Target]	<p>The [Target] varies with selected event logs. Here you can choose to filter logs containing this condition only or excluding this condition. Click the “View event rules” to jump to the interface of Event Rule Settings (page 170) to view the corresponding rule.</p> 
Export Selected Logs	Export selected logs to local file.
Copy Selected Log to Clipboard	Copy selected log to clipboard.

Item	Function Introduction
Select All	Click the button to select all event logs searched in the event log list.

8.2 Audit Trail

Record all user actions to a log. The Session Logs is to record logs about all operations of each user from login to logout; and the Camera Logs is to record logs about all operations of each camera.

Session Logs page:

The screenshot displays the Misesight interface for Session Logs. The top navigation bar includes 'Live View', 'Playback', 'Smart Analytics', 'E-Map', 'Logs', and 'Settings'. The left sidebar shows 'Event Logs' and 'Audit Trail' with a list of filterable categories: All, Camera Modify, Export Files, Client Login/Logout, Server Modify, User Modify, System Modify, and Event Rules Modify. The main content area is titled 'Session Logs' and shows a table with the following data:

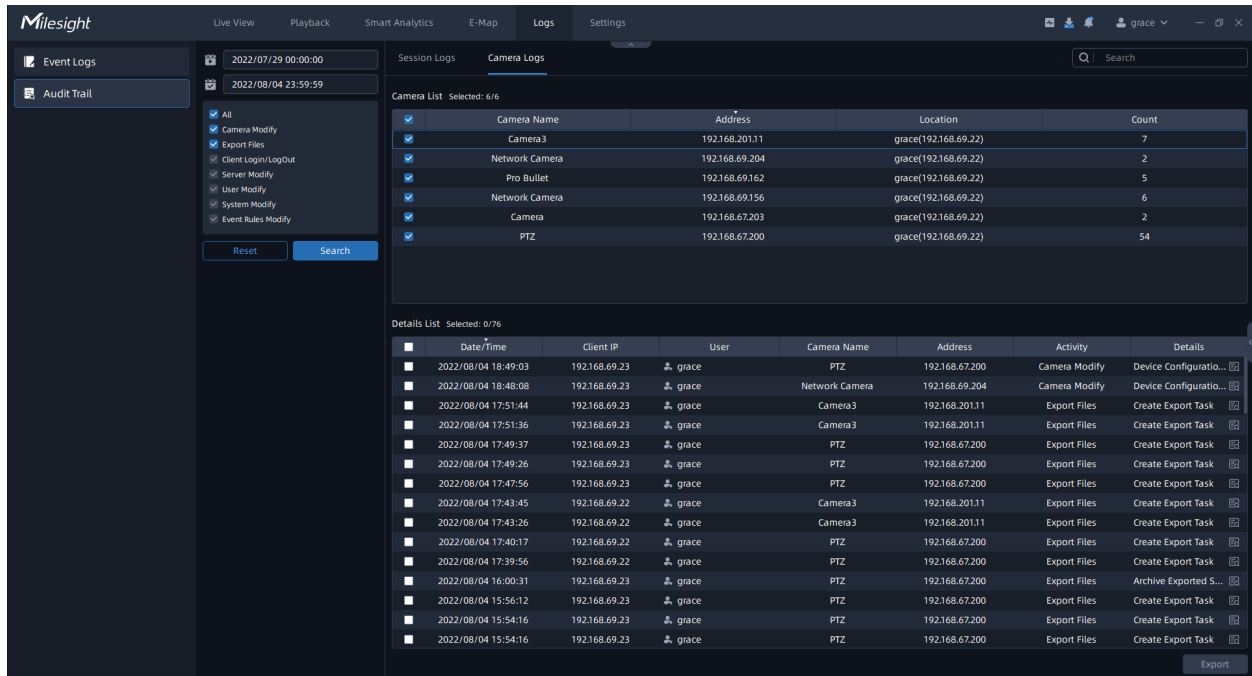
Session Start	Session End	Duration	Client IP	User	Count
2022/08/04 10:31:07	2022/08/04 18:29:36	7h 58m	192.168.69.22	grace	16
2022/08/04 10:10:25	2022/08/04 10:30:33	20m 8s	192.168.69.22	grace	17
2022/08/04 10:06:37	2022/08/04 19:46:36	9h 39m	192.168.69.23	grace	81
2022/08/04 09:23:19	2022/08/04 10:06:23	43m 4s	192.168.69.23	grace	8
2022/08/04 08:50:43	2022/08/04 08:53:35	2m 52s	192.168.69.22	grace	7
2022/08/04 08:37:54	2022/08/04 09:23:06	45m 12s	192.168.69.23	grace	3
2022/08/03 17:59:16	2022/08/03 19:01:12	1h 1m	192.168.69.23	grace	3
2022/08/03 17:20:33	2022/08/03 17:58:31	37m 58s	192.168.69.23	grace	2
2022/08/03 17:16:30	2022/08/03 17:19:33	3m 3s	192.168.69.23	grace	2

Below the session logs is a 'Details List' showing individual activities:

Date/Time	Client IP	User	Activity	Details
2022/08/04 19:20:20	192.168.69.23	grace	System Modify	Add E-Map
2022/08/04 19:19:56	192.168.69.23	grace	System Modify	Delete E-Map
2022/08/04 19:19:52	192.168.69.23	grace	System Modify	Delete E-Map
2022/08/04 19:16:30	192.168.69.23	grace	System Modify	Add E-Map
2022/08/04 18:59:02	192.168.69.23	grace	System Modify	Modify Analytics Events
2022/08/04 18:58:18	192.168.69.23	grace	System Modify	Modify Analytics Events
2022/08/04 18:56:25	192.168.69.23	grace	System Modify	Modify Analytics Events
2022/08/04 18:55:32	192.168.69.23	grace	System Modify	Modify Analytics Events
2022/08/04 18:55:13	192.168.69.23	grace	System Modify	Modify Analytics Events
2022/08/04 18:52:50	192.168.69.23	grace	System Modify	Modify Analytics Events
2022/08/04 18:49:03	192.168.69.23	grace	Camera Modify	Device Configuration Modify
2022/08/04 18:48:08	192.168.69.23	grace	Camera Modify	Device Configuration Modify
2022/08/04 18:42:50	192.168.69.23	grace	System Modify	Edit Group#ANSLE
2022/08/04 18:41:33	192.168.69.23	grace	System Modify	Modify Cross Line People Cou...
2022/08/04 18:40:25	192.168.69.23	grace	System Modify	Modify Cross Line People Cou...

An 'Export' button is located at the bottom right of the details list.



Camera Logs page:

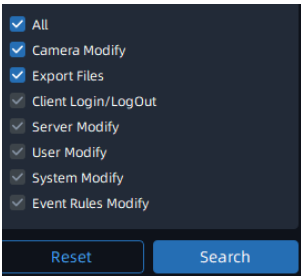

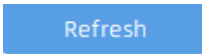




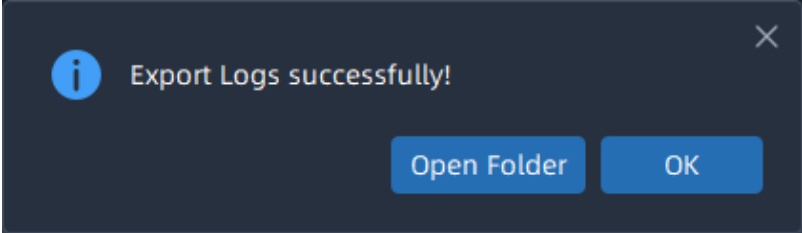
You can set filter condition as you need.

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

Table 68.

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

Item	Function Introduction
	<p>Here you can filter out the interested logs by checking the option box.</p> <p>All: Check the “All” checkbox to search all operation logs.</p> <p>Camera Modify: Check the condition checkbox to search all operation logs about Device Configuration and Device Event.</p> <p>Instant View: Check the condition checkbox to search all operation logs about starting and ending live view of each channel.</p> <p>Archive Playback: Check the condition checkbox to search all operation logs about start and end each channel playback in the Playback interface.</p> <p>Export Files: Check the condition checkbox to search all operation logs about successful export of the channel files in the Playback interface.</p> <p>Client Login/Logout: Check the condition checkbox to search all operation logs about users' Login or Logout to VMS client system.</p> <p>Server Modify: Check the condition checkbox to search all operation logs about server parameters modification of Server Settings (page 139) and Storage Disk Management modification of Login Wizard (page 27).</p> <p>User Modify: Check the condition checkbox to search all operation logs about user/ role modify of User Settings (page 184) and Security questions modification of Login Wizard (page 20).</p> <p>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.</p> <p>Event Rules Modify: Check the condition checkbox to search all operation logs about adding, deleting or modifying event rules of Event Rule Settings (page 150).</p> <p> 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.</p>
	<p>Click the button to refresh the event logs list.</p>
	<p>Input content to search the matched logs.</p>

Item	Function Introduction
	<p>Export the log file. If the selected log is exported successfully, a window will pop up to inform you as shown below:</p> 

Chapter 9. Service

Milesight Technology Co., Ltd provides customers with timely and comprehensive technical support services. End-users can contact your local dealer to obtain technical support. Distributors and resellers can contact directly with Milesight for technical support.

Technical Support Mailbox: support@milesight.com

Web: <http://www.milesight.com>

Online Problem Submission System: <http://www.milesight.com/service/feedback.asp>

MILESIGHT USA

TEL: +1-800-561-0485

Add: 7509 N.W. 36th Street, Miami, Florida 33166, USA

MILESIGHT KOREA

TEL: +82-2-839-3335

Add: 925,AnyangSKV1Center,LS-ro116beon-gil,Dongan-gu,Anyang-si,Korea

MILESIGHT CHINA

TEL: +86-592-5922772

Add: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China

We 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 us for technical support.