
SVMS

User Manual

V1.0.3

Preface

This document provides instructions for the correct use of the product. Please read carefully before use and keep it properly for future reference.

Symbol Conventions

The following symbols may appear in this document:

Symbol	Description
 DANGER	Indicates high potential danger. If not avoided, may result in serious injury or death..
 WARNING	Indicates moderate or low potential danger. If not avoided, may cause minor or moderate injury.
 ATTENTION	Indicates potential risks. Ignoring may lead to equipment damage, data loss, performance degradation, or unpredictable consequences.
 TIP	Provides helpful tips to solve problems or save time.
 INSTRUCTION	Indicates supplementary information to the main text, serving to emphasize and complement the content.

Revision History

Version	Changes	Release Date
V1.0.3	Updated product overview and installation deployment modules	2025.04
V1.0.2	Added license authorization and device configuration modules	2025.03
V1.0.1	Initial release	2024.12

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1 Product Overview

1.1 Key Features

- Low Cost Investment
- Offers multiple video channels free of charge, along with minimal hardware requirements. As demands grow, more features can be unlocked by purchasing additional licenses.
- Plug and Play
- Flexible deployment and easy installation. Supports scalable expansion—more devices can be added by obtaining appropriate licenses.
- Integrated Platform
- SVMS is an all-in-one solution that meets diverse needs, including video surveillance, access control, face recognition, and license plate recognition.
- Easy Upgrade
- Supports seamless upgrade to the full version through license files and simple activation steps, enabling access to additional features.

1.2 Product Introduction

SVMS is a comprehensive application software designed to work with network surveillance devices. It provides a wide range of functions to meet user needs, including device management, personnel management, and remote device configuration. The platform supports AI-based features such as face recognition, license plate recognition, and structured data analysis. Additional modules—including parking management, intelligent search, and P2P access—can be easily enabled through simple configuration steps. SVMS is suitable for a variety of scenarios such as retail stores, entrance and exit management, and office buildings.

2 Installation and Deployment

2.1 Server Deployment

2.1.1 Installing the PC Service Management Tool

Preconditions

- The SVMS platform server device has been prepared.
- The installation package for the SVMS Server Service Management Tool has been obtained.



- Open a browser and enter the server's IP address, then press Enter. Select PC and click Download to obtain the Service Management Tool.
- The default IP address of the SVMS server is 192.168.1.188.

Operating Steps

Step 1 Double-click the ServerConfig installer to start installation

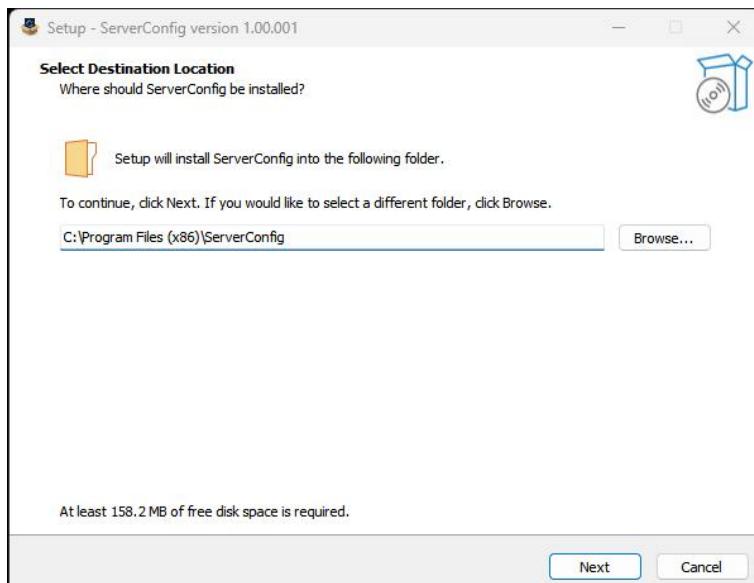


- The program name includes the version number and release date. Please verify it before installation.
- The ServerConfig tool is used for the SVMS server version only. It is not required for the standalone version of SVMS.

Step 2 Select the installation directory and start the installation.

The system will display the required disk space for the installation.

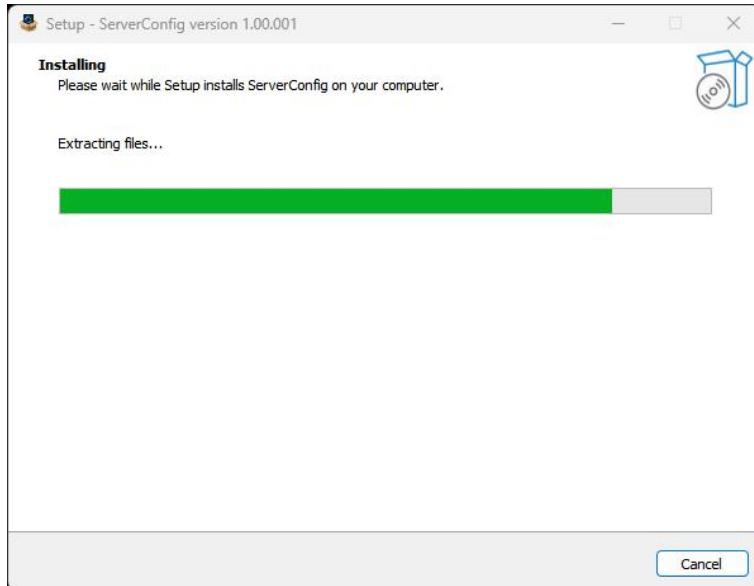
Figure 2-1 Select Installation Directory



Step 3 Click “Install” to begin the installation process.

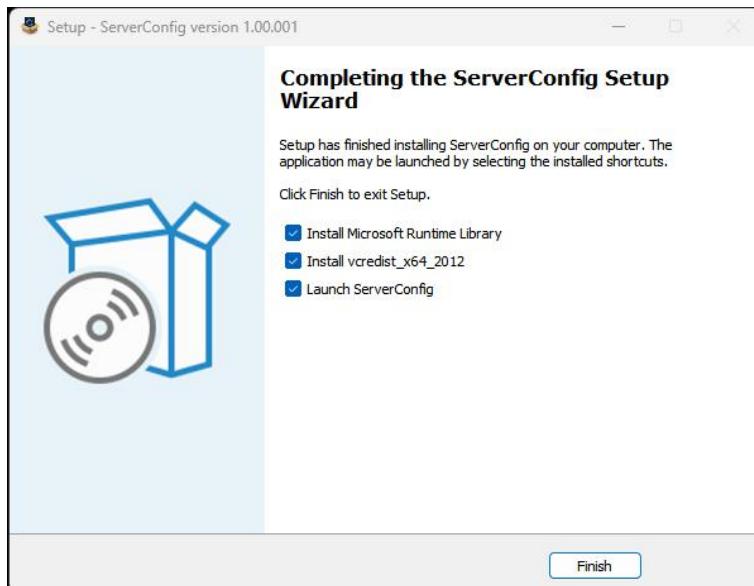
The system will display the installation progress. The process typically takes 1 to 5 minutes to complete.

Figure 2-2 Select Installation Directory



Step 4 Click “Finish” to launch the program.

Figure 2-3 Run the Program



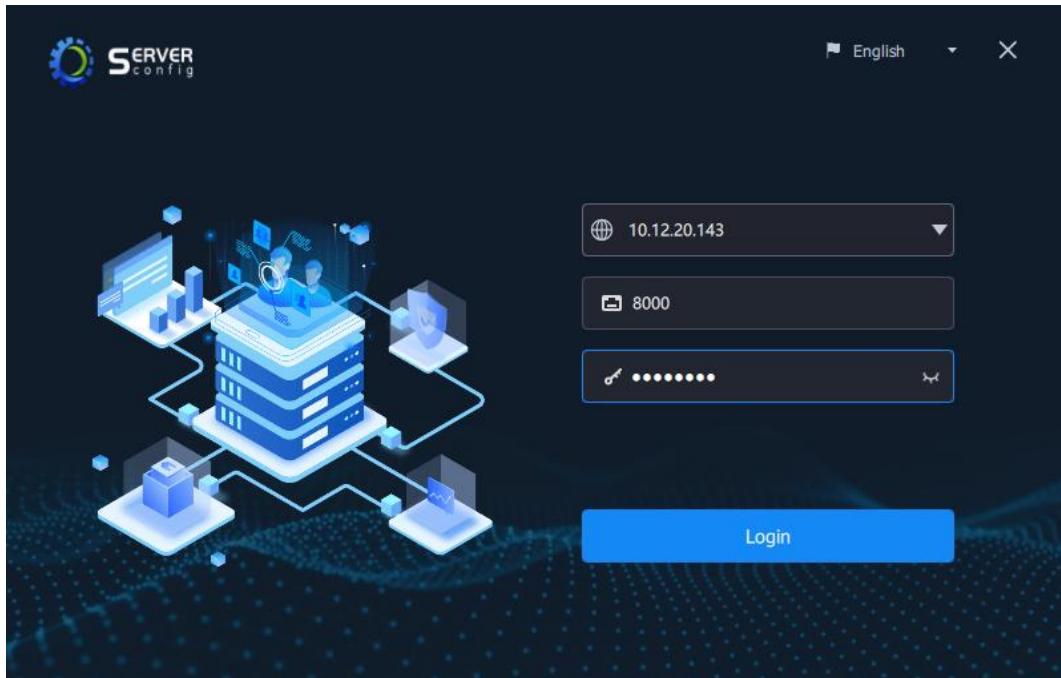
2.1.2 Logging into the PC Service Management Tool

Modify the IP address of the PC where the Service Management Tool is installed according to the network topology plan, and ensure that it can communicate with the SVMS platform server.

Operating Steps

Step 1 Double-click the desktop shortcut

Figure 2-4 Service Management Tool Login Interface



Step 2 Select language.

Step 3 Enter the server IP address. A list of platform servers on the same subnet as the current PC will appear in the dropdown menu.



INSTRUCTION

To log in using a domain name, you must first bind the platform's IP address to the domain name.

Step 4 Click “Login” to begin initializing the server.

On first login, the platform will automatically redirect to the initialization page.

If this is not the first login, enter the platform’s IP address, port, username, and password, then click Login to access the system.

1. The default username is “system”. Set and confirm the login password, then click “Next”.

The password must be 8 to 32 characters long and include at least two of the following character types: numbers, letters, and common symbols.

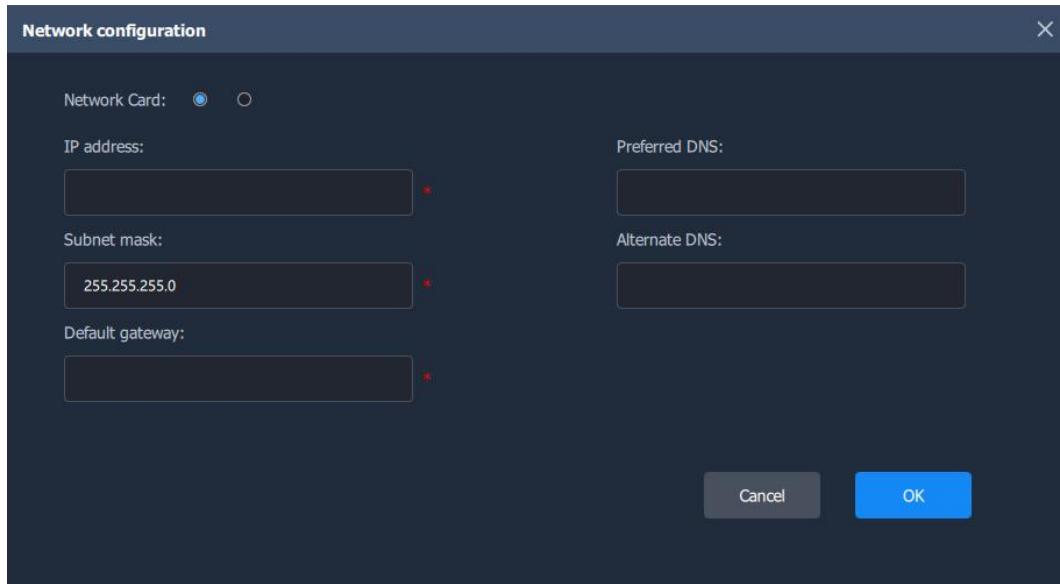
After entering the password, a color bar below indicates the password strength—red represents low security, transitioning to green for high security.

2. Select security questions and set the corresponding answers, then click “Next”.

3. Set the email address and click “Next”.

4. Modify the server IP address. Modify the server IP address according to the network topology plan to ensure proper communication with other devices in the network.

Figure 2-5 Modify Server IP Address



5. Click “Login Now” to access the platform using the new password.

2.1.3 Introduction to the Service Management Tool

The Service Management Tool supports various operations, including modifying the server IP address and port, starting or stopping services, refreshing and viewing service status, downloading the client, and upgrading the service version.

Figure 2-6 Modify Server IP Address

The screenshot shows the 'SERVER config' interface. At the top is a toolbar with icons for Refresh (1), Save (2), Print (3), Export (4), Help (5), and Close (6). A yellow box highlights the 'Running' status indicator (5). Below is a table with columns: Service, Service Category, Port, Service Status, Cause of the exception, and Operation. The table lists ten services, all marked as 'Running'. A yellow box highlights the entire table area (7). At the bottom are buttons for Download client (8), Version upgrade (9), Restart server (10), and Log (11).

Service	Service Category	Port	Service Status	Cause of the exception	Operation
admin(Service Manageme.	cloud	TCP:8086	Running		/
ecs(Event Center Service)	cloud	TCP:8811	Running		/
bps(Business processing s	cloud	TCP:8801	Running		/
als(System log service)	cloud	TCP:8085	Running		/
ams(Alarm forwarding ser	cloud	TCP:8083	Running		/
dms(Device management	cloud	TCP:8088	Running		/
ums(User management se	cloud	TCP:8082	Running		/
mqtt(MQTT message proc	cloud	TCP:8087	Running		/
ids(Distributed ID service)	cloud	TCP:8089	Running		/
eureka(Service registratio	cloud	TCP:8888	Running		/
emqx(MQTT message serv	cloud	TCP:1883;HTTP:18083	Running		/

Table 2-1 Module Introduction

Number	Function	Description
--------	----------	-------------

1	Service Management	Click  Refresh, Refresh Service.
2	User Manual	View the user manual
3	Language	The system supports multiple languages. Click the icon to select a language. A restart of the service management tool is required for the language switch to take effect.
4	Network Configuration	Set the IP address, subnet mask, default gateway, primary DNS, and secondary DNS of the SVMS server to connect it to the required network and access devices within that network. In dual NIC mode, two different IP addresses can be configured to connect to different networks and access devices in each network.
5	About	View software version and license information.
6	Overall Service Status Display	Display the overall service status, including Starting, Stopping, Running, Abnormal, and Stopped. Status description: <ul style="list-style-type: none"> ● Abnormal indicates that at least one service is in an abnormal state. ● Running indicates that all services are functioning properly.
7	Display and Modify Service Port Number	Supports the following operations: <ul style="list-style-type: none"> ● View all services and their running status. ● Click to modify the service port number. The system will automatically restart the service after modification.
8	Client Download	Navigate to the download page for the client, which includes the SVMS PC client, mobile client, and service management tools.
9	Upgrade	Platform service version upgrade.
10	Server Reboot	Remote restart of the SVMS server device.
11	Log	Platform service log export, available for issue diagnosis.

2.2 PC Client

2.2.1 Installing the PC Client

Preconditions

- The SVMS client installation package has been obtained.



If the SVMS platform server device is already available, enter the server's IP address in the browser and press [Enter]. Select "PC" and click "Download" to get the PC client. It can also be obtained through the company website, technical personnel, or other methods.

- A PC that meets the requirements has been prepared.

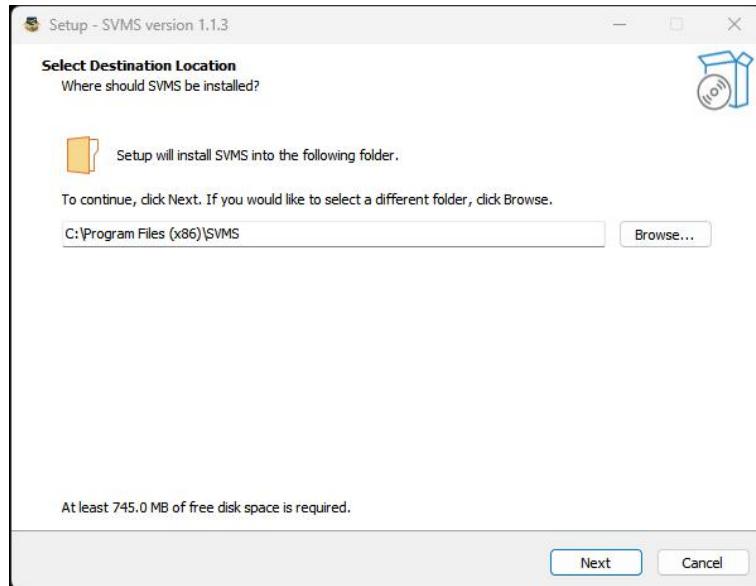
Table 2-2 PC System Requirements

Parameter	Description
Recommended Configuration	CPU: Intel® Core™ i5-6500 @ 3.20GHz Memory: 8 GB or higher Graphics Card: NVIDIA® GeForce® GT 530 Network Card: 1000 Mbps (Gigabit Ethernet) Hard Drive: At least 100 GB reserved for SVMS client use
Minimum Configuration	CPU: Intel® Core™ i3-2120 @ 3.20GHz Memory: 4 GB Graphics Card: Intel® HD Sandbridge Desktop Graphics Network Card: 1000 Mbps (Gigabit Ethernet) Hard Drive: At least 50 GB reserved for SVMS client use

Operating Steps

- Step 1 Double-click the client installer .
- Step 2 Select the installation directory and start the installation.
The system shows the size of the required installation space.

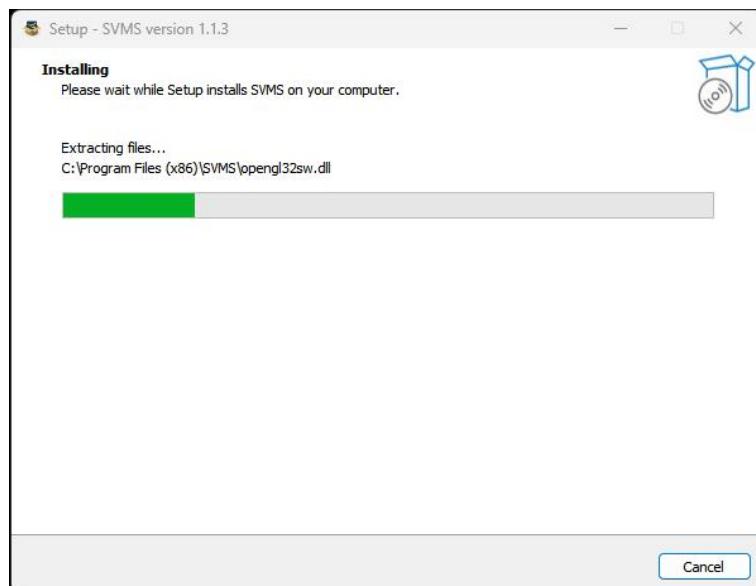
Figure 2-7 Select Installation Directory



Step 3 Click "Install" in the installation directory to begin the installation.

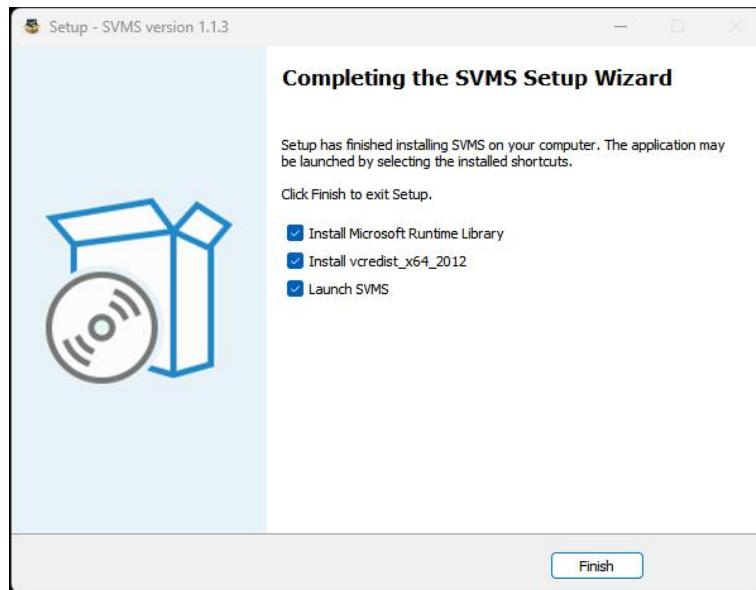
The system displays the installation progress, and the installation process takes approximately 5 minutes.

Figure 2-8 Select Installation Directory



Step 4 Click "Finish" to launch the program.

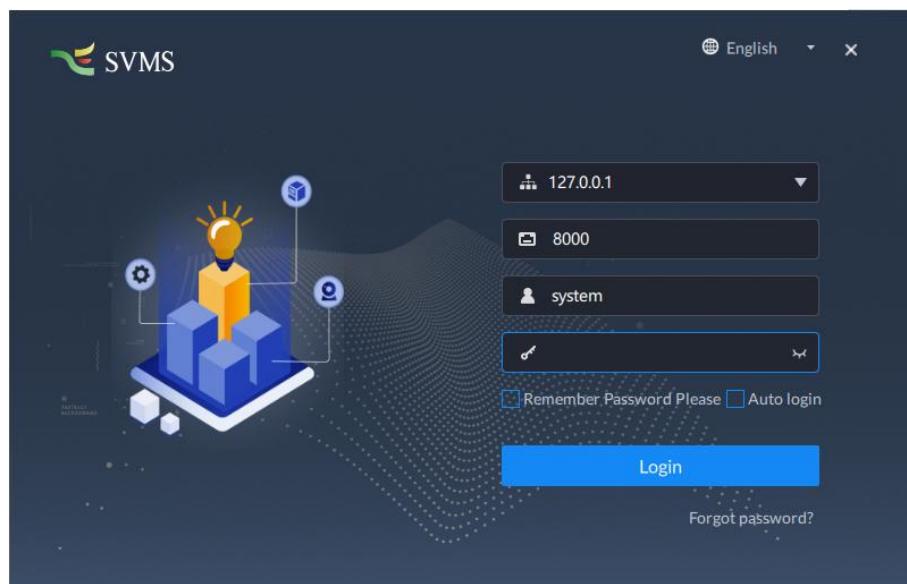
Figure 2-9 Run the Program



2.2.2 Logging into the PC Client

Step 1 Double-click the desktop shortcut .

Figure 2-10 Client Login Interface



Step 2 Select language

Step 3 Enter the server IP address and Port. A list of platform servers on the same subnet as the current PC will appear in the dropdown menu.

INSTRUCTION

When the client is used standalone, the default platform server IP is 127.0.0.1.

Step 4 Click anywhere on the interface to start platform initialization.

Upon first login, the platform will automatically redirect to the initialization screen.

If it's not the first login, enter the platform's IP address, port, username, and password, then click "Login".

1. The default username is "system". Set and confirm the login password, then click "Next".

The password must be 8 to 32 characters long and include at least two of the following character types: numbers, letters, and common symbols.

After entering the password, a color bar below indicates the password strength—red represents low security, transitioning to green for high security.

2. Select security questions and set the corresponding answers, then click "Next".
3. Set the email address and click "Next".

2.2.3 Client Home Page Overview

Figure 2-11 Client Home Page

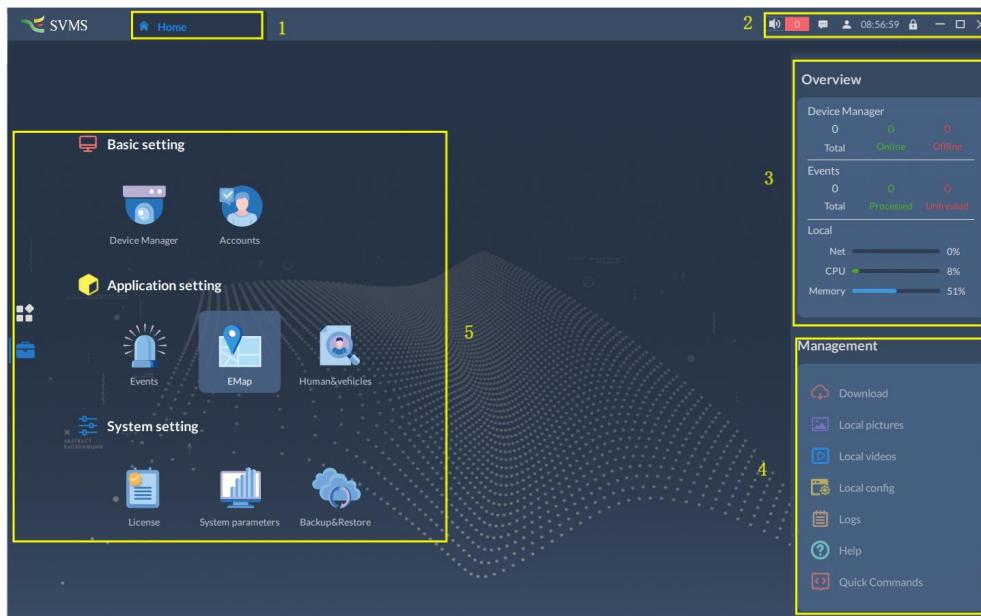


Table 2-3 Client Home Page Description

Number	Module Name	Description
1	Tab Bar	Display all open tab names.
2	System Operation Bar	<p>Descriptions of the icons are as follows:</p> <ul style="list-style-type: none"> ● : Enable or disable the alarm sound. ● : Displays the number of alarms. Click to navigate to the "Event Manager" page. ● Click to view system information, including information editing, device operations, and more. The displayed information depends on user permissions. For example, if User A does not have permission for Device A, User A will not receive a notification when Device A is deleted.

		<ul style="list-style-type: none"> ●  User information: Click the icon and select the corresponding function to change the password, view version information, or log out. <ul style="list-style-type: none"> ■ Click "Change Password" to modify the user's password. ■ Click "About" to check the platform version, client version, and software license agreement. ■ Click "Log Out" to navigate to the client login interface. ● 15:07:11: Displays time information; the screenshot is for example purposes only. ● Click  to lock the client; the user will be unable to operate the client. A password is required to unlock the client.
3	Overview	<ul style="list-style-type: none"> ● Displays the number of devices connected to the platform and the devices in offline status. ● Displays the total number of reported events, the number of processed events, and the number of unprocessed events. ● Displays the network, CPU, and memory status of the PC where the client is located.
4	Management	<ul style="list-style-type: none"> ● Supports navigation to the download center to search for and download video files. For detailed information, please refer to "7.1 Download Recordings." ● Supports navigation to the local image and video storage paths to view and manage related media. ● Supports client configuration settings, including basic settings, video settings, playback settings, screenshot settings, recording settings, alarm settings, video wall, security, and hotkey settings. For detailed information, please refer to "7.3 Local Configuration". ● Supports navigation to the log interface to view and manage log information. For detailed information, please refer to "7.4.1 Operation Logs". ● Supports opening the help documentation to learn and refer to product-related operations.
5	Page Switch Area	The client supports application and configuration interfaces, allowing you to click icons to access the corresponding pages.

2.3 License Activation

The platform offers default free multi-channel video access. To enable higher performance, a License must be purchased and activated to unlock additional device connections and functionality. Users can purchase Licenses as needed.



The License authorization must be performed in the client. For instructions on logging into the client, refer to "[2.2.2 Logging into the PC Client](#)".

2.3.1 Obtaining the Activation Code

The activation code is used to activate the software and obtain a software license.

Operating Steps

- Step 1 Log into the client, go to the "Home" page, click , and select "License" under the "System Settings" area.
- Step 2 Click  to obtain the activation code, or scan the QR code to get the activation code.

Figure 2-12 Obtaining the Activation Code



- Step 3 Provide the obtained activation code to technical support via email or other means.

2.3.2 Activation

2.3.2.1 Offline Activation

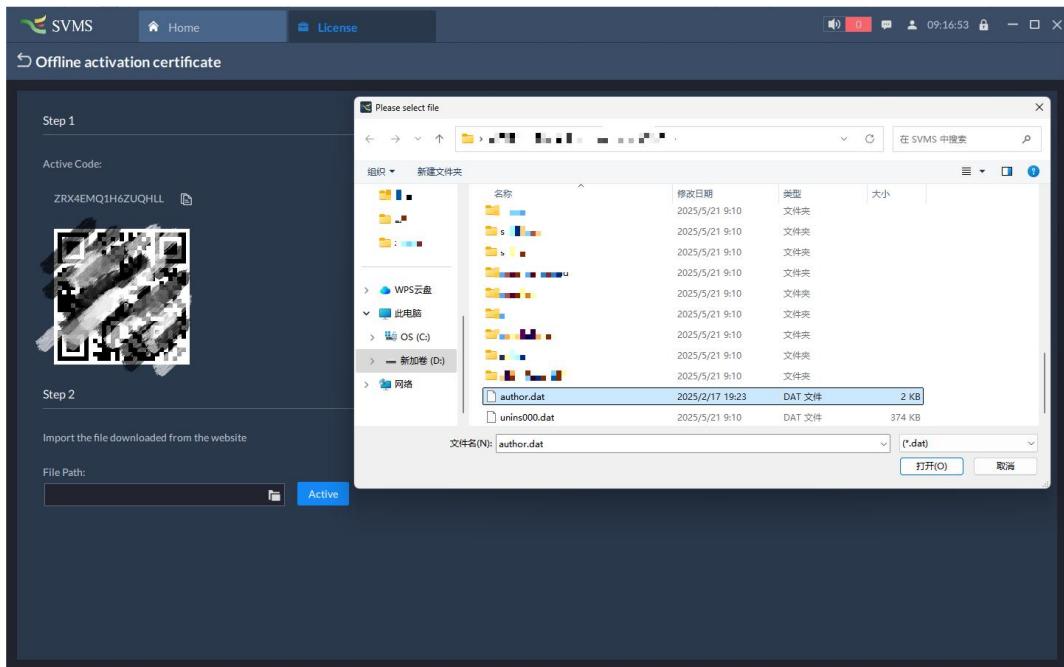
Preconditions

The license file has been obtained and placed on the computer where the client is installed.

Operating Steps

- Step 1 Log into the client, go to the "Home" page, click the icon  , and select "License" under the "System Settings" area.
- Step 2 Click "Offline Activation Certificate".
- Step 3 Confirm that the activation code in the software is identical to the one in the authorization file.
- Step 4 Choose the authorization file named "author.dat", then click "Activate".

Figure 2-13 Offline Activation



- Step 5 After successful activation, go to " > "System Settings" > "License" to verify the License.

3 Basic Configuration

This section introduces the configurations required before using the platform, including creating organizations, managing devices, adding users, configuring storage, adding recording schedules, and setting up event plans.

3.1 Pre-Setup

Before configuring or using business functions, you need to install and log in to the client. The client includes both a mobile app and a PC version.

3.1.1 Installing and Logging into the PC Client

The client allows you to access and remotely control the platform. For more details on installing the PC client, please refer to "[2.2 PC Client](#)".

3.2 Resource Management

Add devices to the platform for centralized management. Resource management includes adding organizations, adding devices, setting recording schedules, binding resources, and configuring events.

3.2.1 Adding Organizations

Adding organizations allows devices to be grouped for better organizational management. The system includes a built-in root organization by default. If no additional organizations are created, all added devices will be assigned to the root organization.

Operating Steps

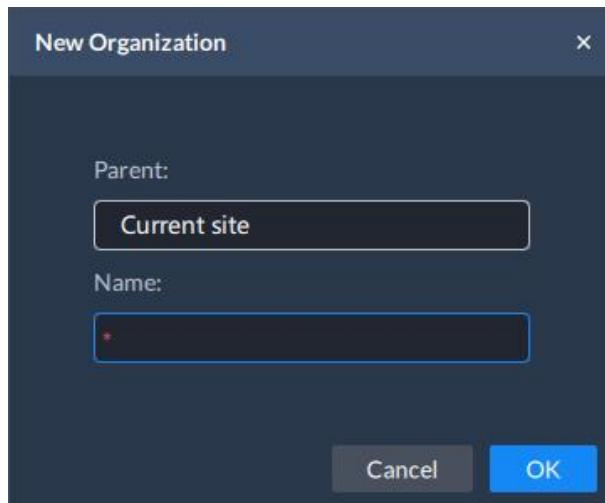
Step 1 Log in to the client, go to the "Home" page, click , and select "Device Manager" under the "Basic Settings" area.

Step 2 Click .

Step 3 Add a new organization.

1. Click .
2. Choose the parent organization, input the organization name, and click "OK".

Figure 3-1 Add a New Organization



Operating Steps

- Modify Organization Name

Choose the organization, then click to modify its name.

- Delete Organization

If the organization has devices added, it cannot be deleted. If the organization has sub-organizations but no devices, the sub-organizations will also be deleted when the organization is deleted.

Choose the organization, click , or right-click and select "Delete". Then, follow the instructions on the screen to remove the organization.

- Modify the device's assigned organization.

Choose the device within the organization, click "Move to", select the destination organization, and click "OK".

3.2.2 Device Management

Before starting video surveillance, devices need to be added first. This section explains how to add devices, modify device information, and change IP addresses.

3.2.2.1 Discover Device

Supports searching for devices that can communicate with the platform network.

Step 1 Log in to the client, go to the "Home" page, click and select "Device Manager" under the "Basic Settings" area.

Step 2 Click .

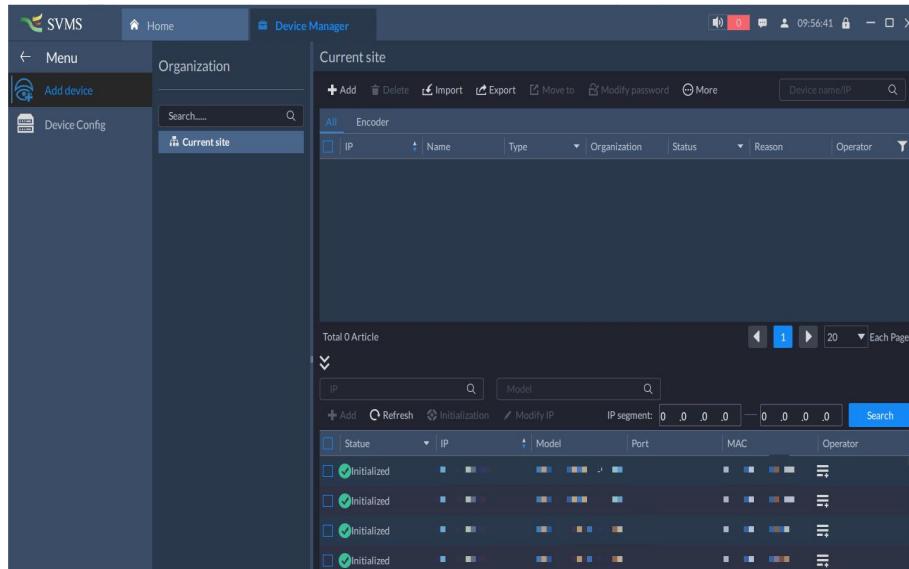
Step 3 Click .

The system displays the detected devices, and the icon changes to .

- Upon first use of the platform, it detects devices in the network segment of the platform.

- If it is not the first time using the platform, it will detect devices in the network segment set during the last use.

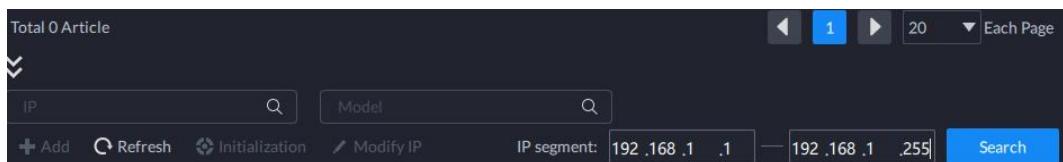
Figure 3-2 Discover Device



Step 1 Set the search IP segment and click Search.

The system displays the discovery device, and the results do not include devices that have been added to the platform.

Figure 3-3 Set the Search Network Segment



3.2.2.2 Initialize the Device

After the first use of the device or the first use after the factory Settings are restored, you need to set the login password and other information of the admin account before the device can be used.

Step 1 Discover devices. For details, see "[3.2.2.1 Discover Device](#)".

Step 2 In Devices Manager, select the device that is not initialized and click Initialization.



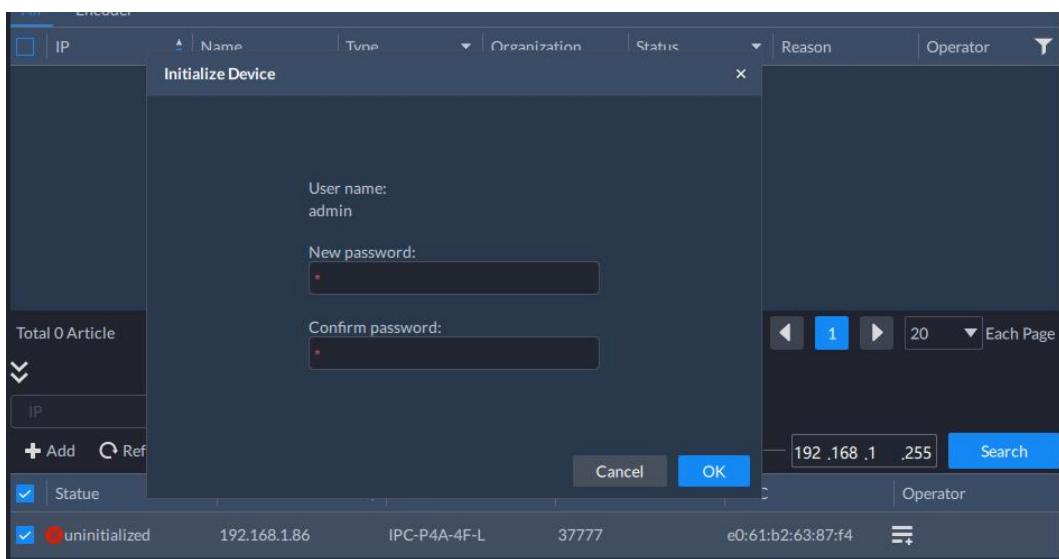
- Supports the initialization of multiple devices at the same time. The password of the device initialized at the same time is the password set during initialization.
- Click "Status" and select the specific status of the device according to the requirements.

Step 3 Enter the user login password.

Step 4 Enter the initialization password for the input device and click OK.

The system feeds back the initialization results.

Figure 3-4 Initialize the Device



3.2.2.3 Modify the Device IP Address

The platform supports the modification of IP addresses of devices not added to the platform to ensure that the devices are connected to the planned network.

- Step 1 Discover devices. For details, see "[3.2.2.1 Discover Device](#)".
- Step 2 Select the device to modify the IP address and click "Modify IP".



If the login user name and password of the device are the same, you can select multiple devices to modify IP addresses in batches.

Figure 3-5 Modify IP of Unadded Devices



- Step 3 Enter the IP address, subnet mask, and gateway according to the plan, and click OK.
When batch modifying, enter the starting IP address and increment the IP address by 1.
- Step 4 Enter the login user name and password for the input device, and click OK.

3.2.2.4 Add Devices

Supports the addition of encoders, decoders, card devices, thermal imaging devices, etc., and adds different

types of devices according to different business requirements. This chapter introduces the setting by taking the addition of encoders as an example. For other types of devices, please set them according to the actual interface.



INSTRUCTION

When devices are added using active registration, IP segments, or batch import, if the number of devices or channels that can be added exceeds the allowed number,

Some devices will fail to add.

3.2.2.4.1 Manual Device Addition

Add devices with specified domain names, IP addresses and IP address segments, or P2P devices, or add devices that have been set up for active registration.

Step 1 Log in to the client, click on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.

Step 2 Click .

Step 3 Click Add.

Step 4 Set the device login information and click OK.

The add mode includes:

- IP Address

Add a single device, and when the IP address of the added device is known, it is recommended to use this mode to add.

- IP Segment

If you need to add multiple devices within the same IP subnet and the login user name and password of the devices are the same, it is recommended to use this mode to add.

- Domain Name

If the IP address of the added device may change frequently and the device has applied for a domain name, it is recommended to use this mode to add.

- Active Registration

If the IP address of the device to be added is not fixed, it is recommended to use this mode for addition. The active registration ID during addition must match the registration ID set on the encoder side. The active registration port number configured on the device should align with that of the platform. By default, the platform's active registration port number is 9500. If you need to modify it, open the service management configuration tool or go to "[6.2.4 Set Active Registration Server Settings](#)" to change the active registration service port number.

- P2P

There is no need to apply for the dynamic domain name of the device, port mapping or deployment of a relay server. As long as the platform can access the P2P server, devices under the P2P account can be added to the platform.

**INSTRUCTION**

Select different protocols, add methods and device categories, and set parameters differently. Please refer to the interface display.

Figure 3-6 Add Device

The screenshot displays the 'Add Device' configuration interface. It includes the following fields:

- 1.Login information**
- Add mode:** IP
- Protocol:** General
- Device class:** Encoder
- IP type:** IPV4
- IP:** 0 . 0 . 0 . 0
- Port:** 37777
- User name:** admin
- Password:** (redacted)
- Organization:** Current site
- Timezone:** (UTC+08:00)Beijing,Chongqing,Hong Kong,U.

Step 5 Set the device information and click OK or Continue to Add.

- Click OK to save the added information and exit the add interface. Click Continue to add, save the added information and return to the add interface.
- After the addition is completed, click in the "Operator" column to jump to the WEB configuration interface of the device.

3.2.2.4.2 Search and Add Devices

Supports the addition of devices found by search to the platform for management. The platform supports search and interoperable devices on the platform.

Step 1 Discover devices. For details, see "[3.2.2.1 Discover Device](#)".

Step 2 Select the device and click Add, or click the corresponding to the device.



When the login user name and password of the device are the same and belong to the same organization on the same server, you can select multiple devices for batch addition.

Figure 3-7 Batch Addition

		Add	Refresh	Initialization	Modify IP	IP segment:	Search	
		<input type="checkbox"/>				10 .12 .20 .1 — 10 .12 .20 .255		
<input type="checkbox"/>	Status	<input type="checkbox"/>	IP	<input type="checkbox"/>	Model	Port	MAC	Operator
<input checked="" type="checkbox"/>	Initialized							

- Step 3 Select the organization to which the device belongs, enter the user name and password, and click OK.

Addition is completed, and the added device information can be viewed on the interface.

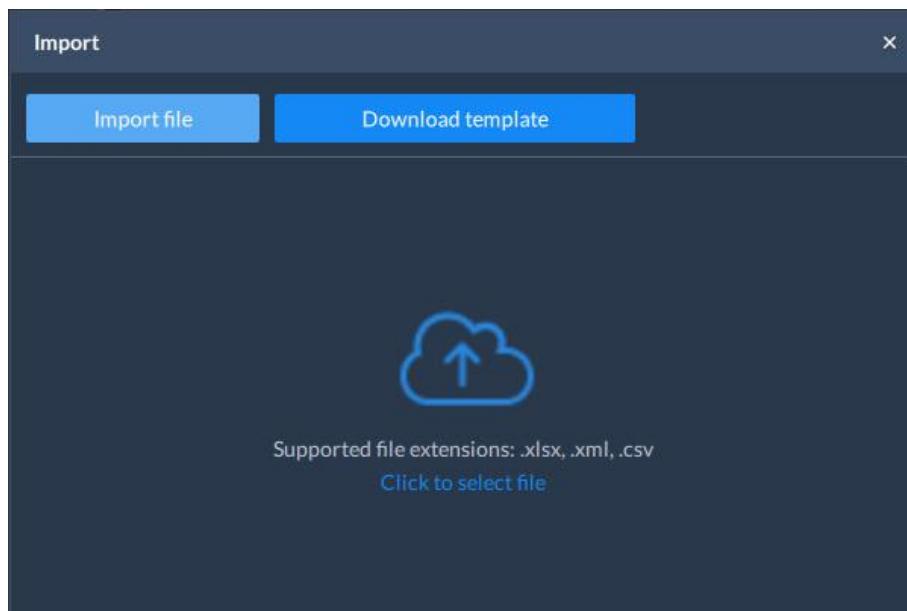
3.2.2.4.3 Import Device

Maintain equipment information in the template, and add equipment in batches through import operation.

Operating Steps

- Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Click Import.
- Step 4 (Optional) Download the template and organize the information of the devices to be added according to the template.
If the data has been organized according to the template or the data has been exported from the device, ignore this step.

Figure 3-8 Download template



- Step 5 Click "Import file", select the file according to the interface prompt, and import the device information.

The added device is displayed in the list of added devices.



INSTRUCTION

If the device in the template has been added to the platform, prompt whether to overwrite it and select according to the actual situation.

- Step 6 Confirm the import results and click OK.

- Step 7 Click Finish.

The import is complete, and the imported device information can be viewed on the interface.

3.2.2.5 Edit Device

Modify the information related to the device.

3.2.2.5.1 Modify the Device IP Address

- Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Click  corresponding to the device.
- Step 4 Modify the device IP and click OK.

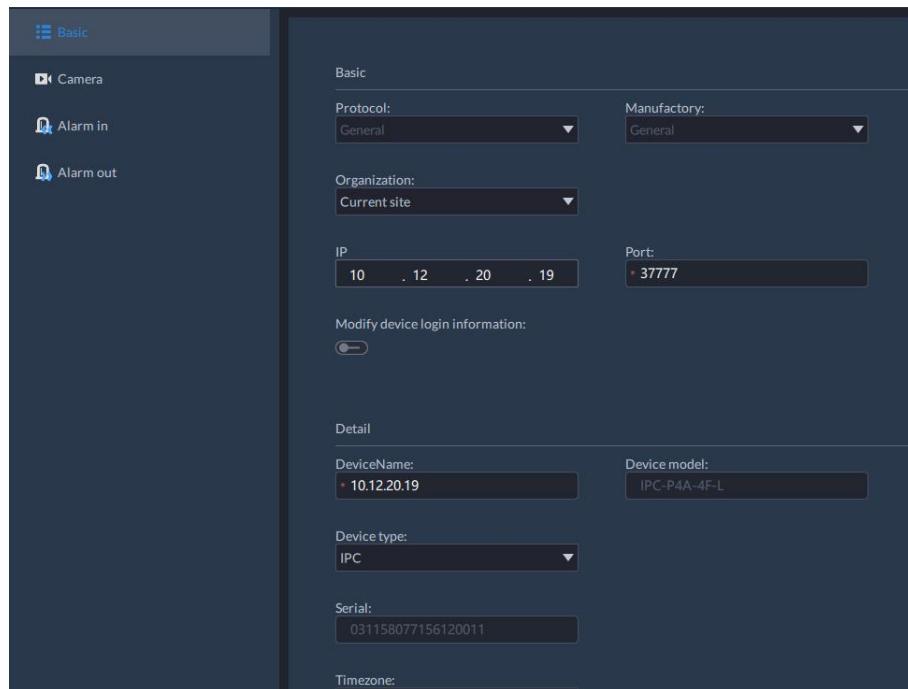
3.2.2.5.2 Modify Device Information

- Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Click  to modify the basic information of the device.



Click "Get info" to synchronize device information.

Figure 3-9 Modify Basic Information



- Step 4 Click the "Video Channel" TAB to set the channel name, channel capability set, and other information of the device.

**INSTRUCTION**

- Channel capability set includes intelligent alarm, fish eye correction, face detection, etc. Select the appropriate capability set according to the access camera capability.
- The performance of equipment with different models and manufacturers is different, and the set of channel capabilities supported is also different.

Figure 3-10 Modifies Video Channel Information

Basic					
Camera					
Alarm in					
Alarm out					
Channel count:	1	(0-1024)			
Channel number	Channel name	Camera type	Capability	Key code	Operator
1	IPC	Gun			

Step 5 Click the "Alarm in" TAB to set the number, name, and alarm type of the alarm input channel. This step is required only if the added device supports alarm input; otherwise, ignore this step. The alarm types are default including external alarm, infrared detection alarm, zone failure, passive infrared, gas sensing, smoke sensing, glass breakage, emergency button, theft, perimeter, anti-tear, etc.

**INSTRUCTION**

Custom alarm type modification and deletion instructions.

- If the alarm plan is used, only modification is allowed and deletion is not supported.
- If not used in the alarm plan, it is supported to delete. After deletion, the alarm type of the alarm input channel of this alarm type is restored to the default value.
- Modify the name of the custom alarm type. If the related data has been generated, keep the original name, and use the modified name for the new data.

Step 6 Click the "Alarm out" TAB to set the number and name of the alarm output channel.

Step 7 Click the Sound and Light Alert Channel TAB to set the number and name of the channel.

**INSTRUCTION**

The label is displayed only when the device has an audio and light channel.

Step 8 Click OK.

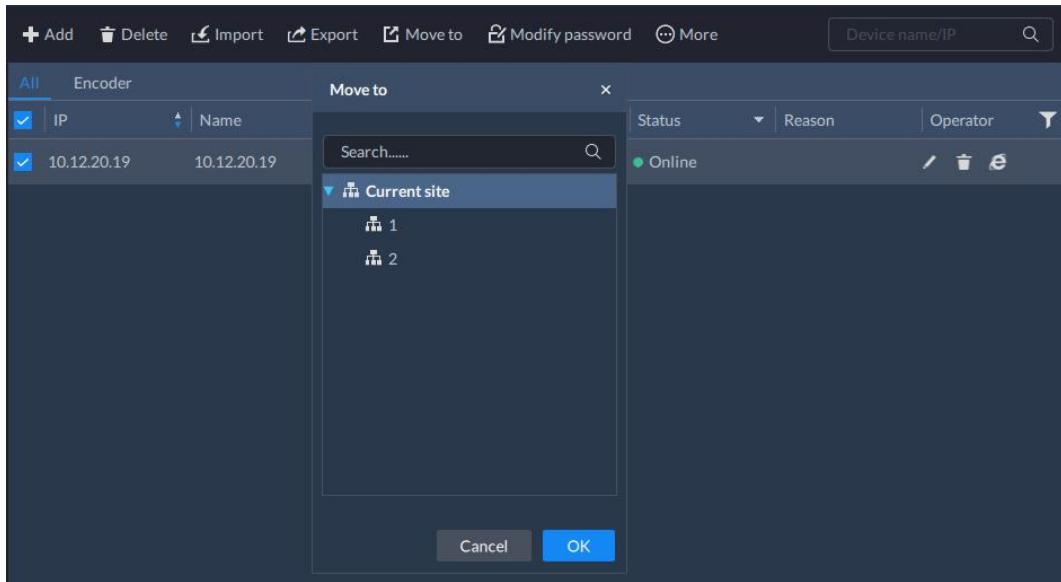
3.2.2.5.3 Modify the Organization to Which the Device Belongs

Step 1 Log in to the client, click on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.

Step 2 Click .

Step 3 Select the device under the organization, click "Move to", select the organization to move into, and click "OK".

Figure 3-11 Modify the Organization to Which the Device Belongs



3.2.2.5.4 Modify the Device Login Password

Supports batch modification of login passwords for added devices to ensure that the platform can log in to the devices.

Step 1 Log in to the client, click on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.

Step 2 click .

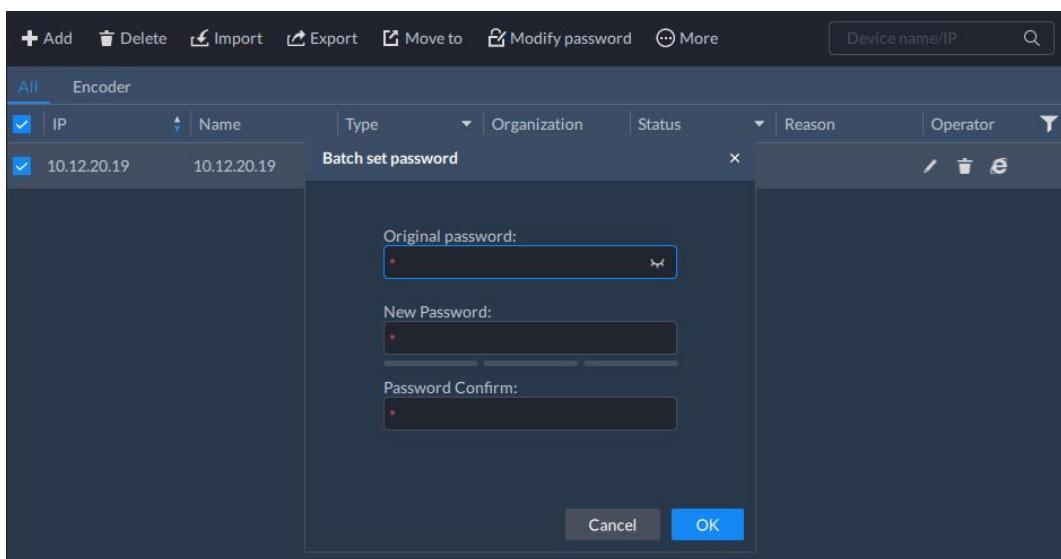
Step 3 Select the device and click "Modify password".

If the original password of multiple devices is the same, the new password after modification is also required to be the same. It is recommended to select multiple devices for batch modification.

Step 4 Enter the original password and the new password.

Step 5 Click OK.

Figure 3-12 Modify the Device Password



3.2.2.6 Export the Device

Export all device information added to the platform (except login user name and password) to the local storage for easy reinstallation of the platform or switching between platforms, and import devices quickly through the device, but you need to re-enter the login user name and password.

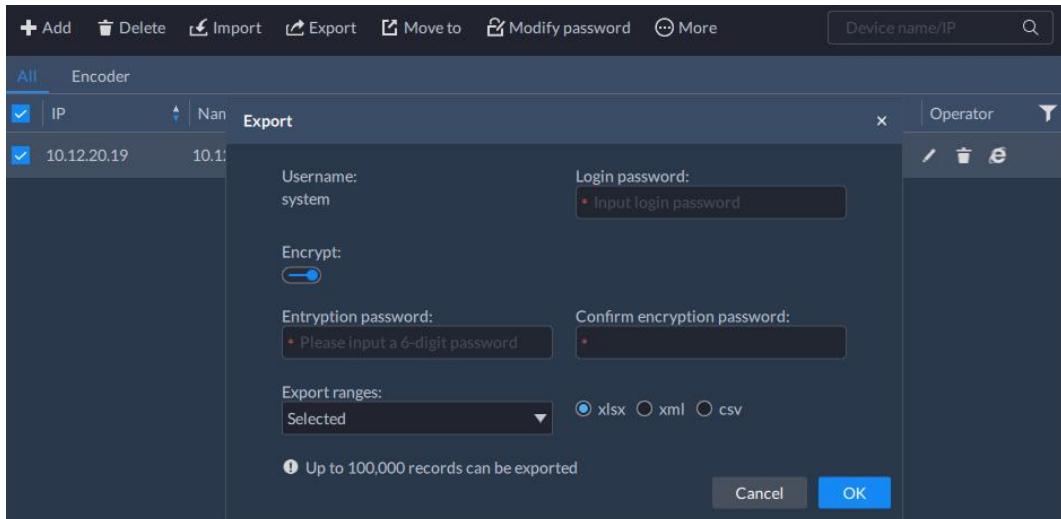
Background Information

The platform supports the export of up to 100,000 records at a time.

Operating Steps

- Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
 - Step 2 Click .
 - Step 3 (Optional) Select the device when you only need to export some device information.
 - Step 4 Click Export.
 - Step 5 Enter the login password, export file encryption password, select the export range, and click OK.
 - Step 6 Select the export path and click OK.
- The system displays the export progress, and a pop-up window prompts the export success after the export is successful.

Figure 3 Select the Export Device



3.2.2.7 Modify the Device Time Zone

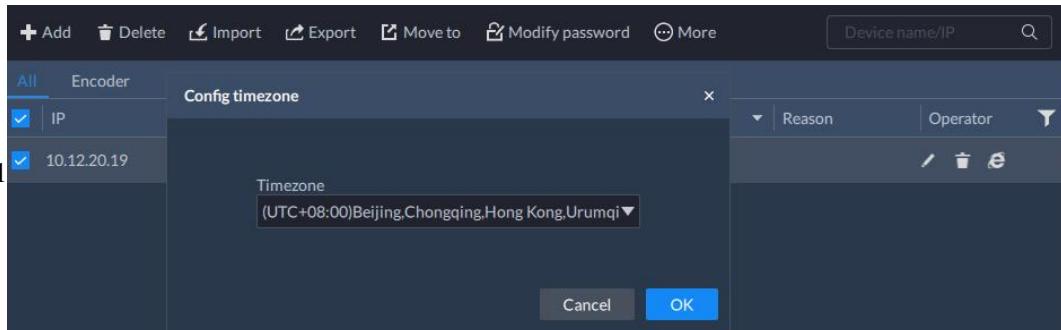
Modify the time zone of the device according to its location.



The device is added to the platform through Onvif protocol. If the Onvif version of the device is lower than 18.12, the daylight saving time information of the device is not supported and needs to be manually adjusted and kept consistent.

- Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Select the device and click "More">>"Config timezone".
If multiple devices need to be modified to the same time zone, it is recommended to select multiple devices and modify them in batches.
- Step 4 Select a time zone.
- Step 5 Click OK.

Figure 3-14 Batch Modify Time Zones

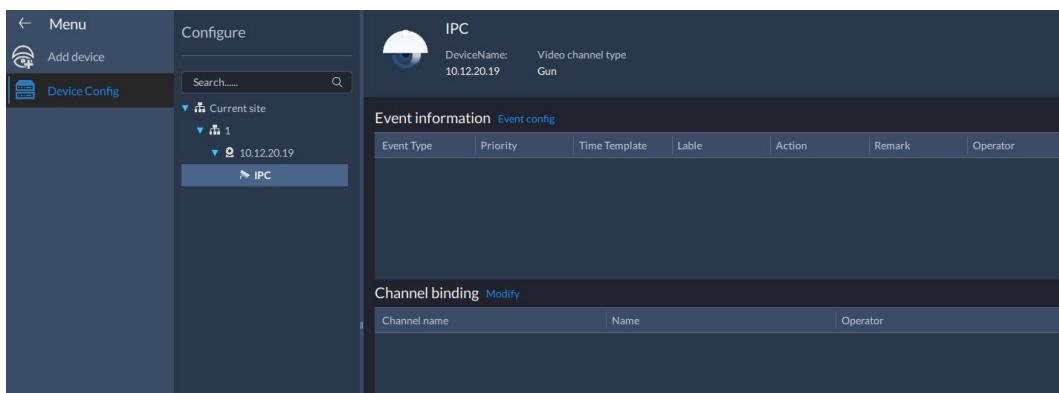


3.2.3 Resource Binding

Supports setting up video channel, alarm input channel, and binding the checkpoint channel with video channel resources. In alarm, face, and other services, view the video of the bound channel.

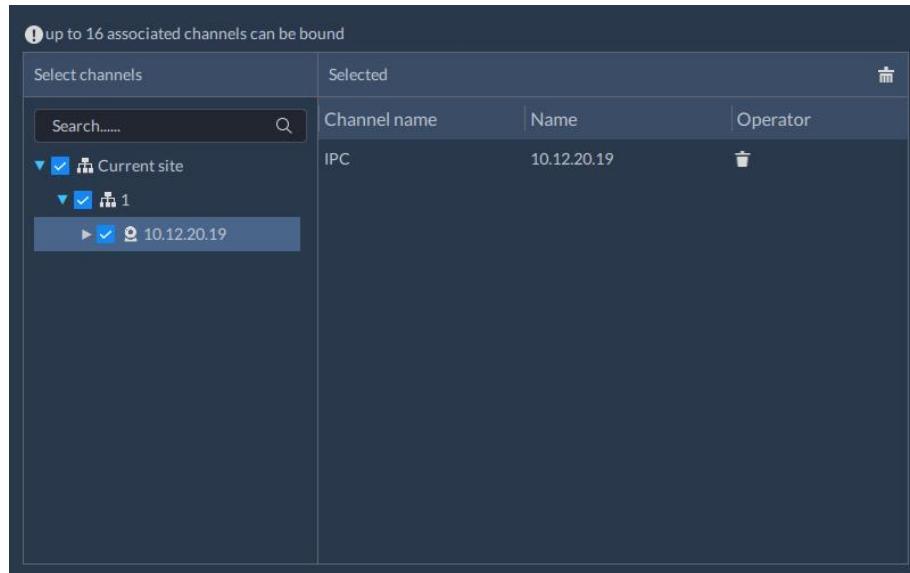
- Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Select the channel for the device and click Modify next to Channel binding.

Figure 3-15 Enter the Channel Binding Interface



- Step 4 Select the video channel to bind and click OK.
Supports the selection of multiple video channels.

Figure 3-16 Channel Binding



3.2.4 Adding Record Plans

Configure a recording plan for the video channel and record within the set time.

Background Information

Currently, each channel supports the configuration of two video recording plans at most, namely, ordinary video recording plan and dynamic inspection video recording plan. The ordinary video recording plan enables the device to continuously record within a set time, while the dynamic inspection video recording plan enables the device to continuously record after the dynamic inspection is triggered.

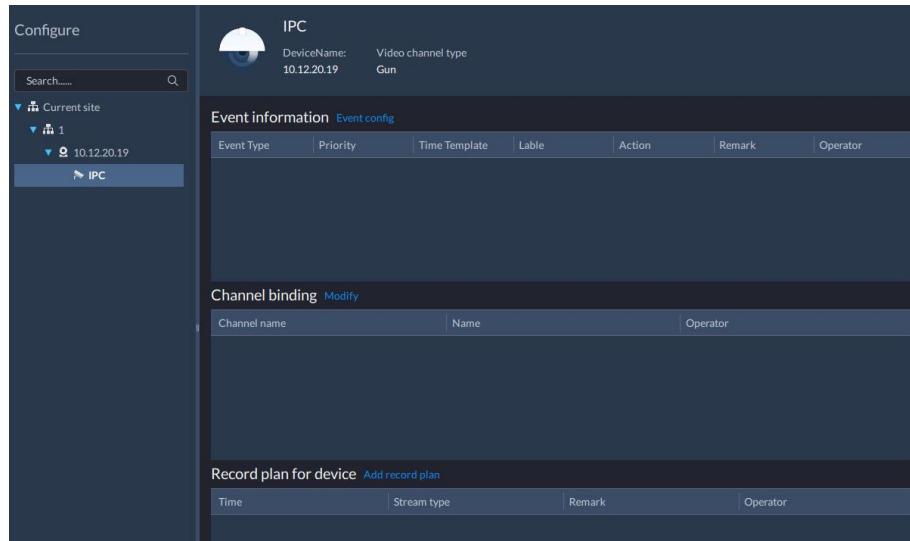
3.2.4.1 Add a Single Record Plan

Add a device recording plan to a single channel for regular or dynamic inspection recording within the set time.

Operating Steps

- Step 1 Log in to the client, click on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 click .
- Step 3 Select the channel and click Add record plan on "Record plan for device".
Only for ordinary video recording.

Figure 3-17 Enters the Device Record Plan Configuration Interface



Step 4 Configuration parameters, click OK.

Figure 3-18 Configuration Record Plan

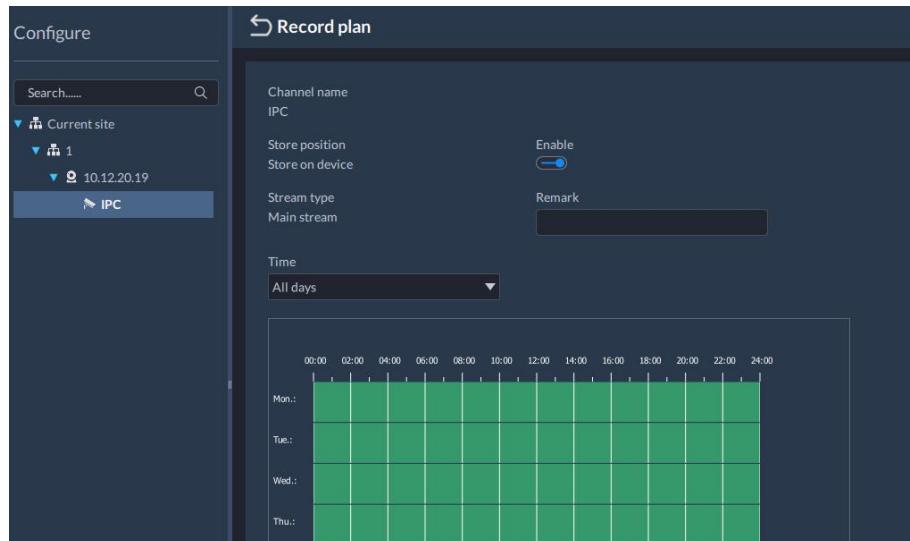


Table 3-1 Parameter Description

Parameters	Description
Enable	Enable or disable the recording schedule.
Store position	It is stored on the device by default and cannot be modified.
Stream type	The default is the main stream and cannot be modified.
Time	Select the system template or "Add plan template". See "3.2.5 Add Time Template" for the operation steps to add time template.

Associative Operation

- Start/Stop the plan

 indicates that the plan is enabled; clicking this icon changes the icon to  indicate that the plan is closed.

- Edit the plan

Click  to edit the plan.

- Delete the plan

Click  to delete a single plan.

3.2.5 Adding Time Templates

When setting a video plan or event alarm, you need to associate a time template and set it to be valid at the time set by the time template.

Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.

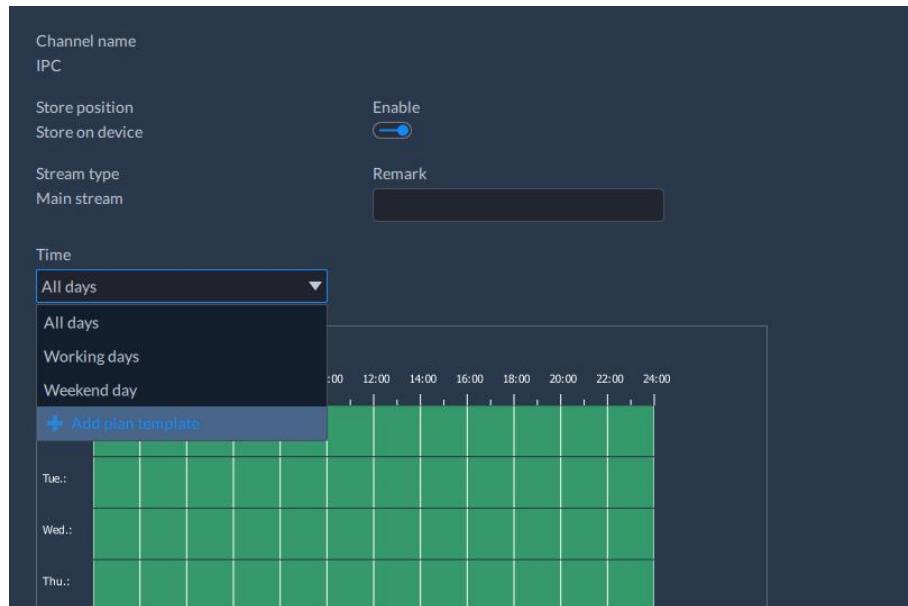
Step 2 Click .

Step 3 Select the channel and click Add record plan on the Record plan for device.

Step 4 Select Add plan template in the Time drop-down box.

This step is one of the many ways to enter the "time template". The configuration requires you to select the configuration of the time template, and all support the creation of a new time template.

Figure 3-19 Enters the Time Template Interface



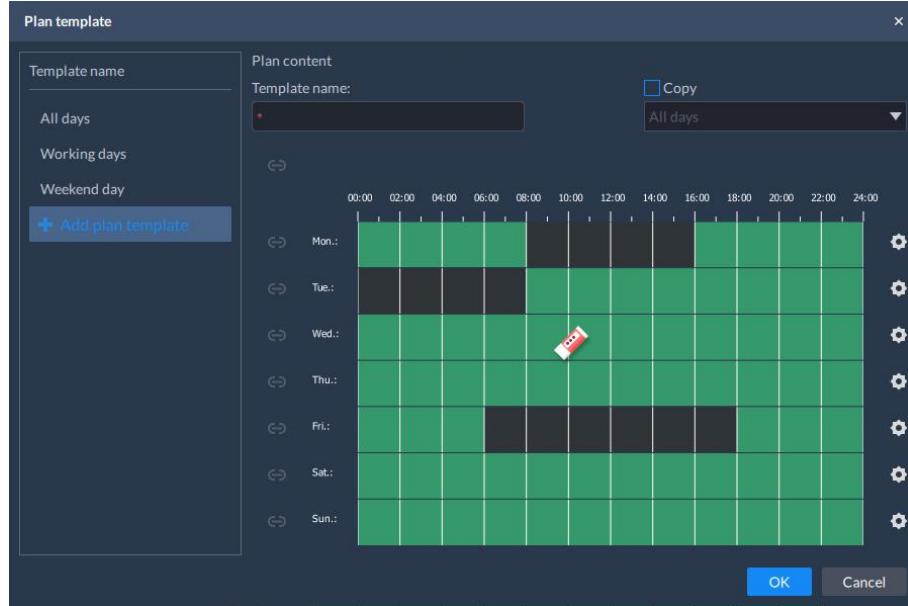
Step 5 Click Add plan template.

Step 6 Set the template name and time period, a maximum of six time periods per day.

Select the "Copy" checkbox and select the existing time template in the drop-down box to directly copy the Settings of the time template.

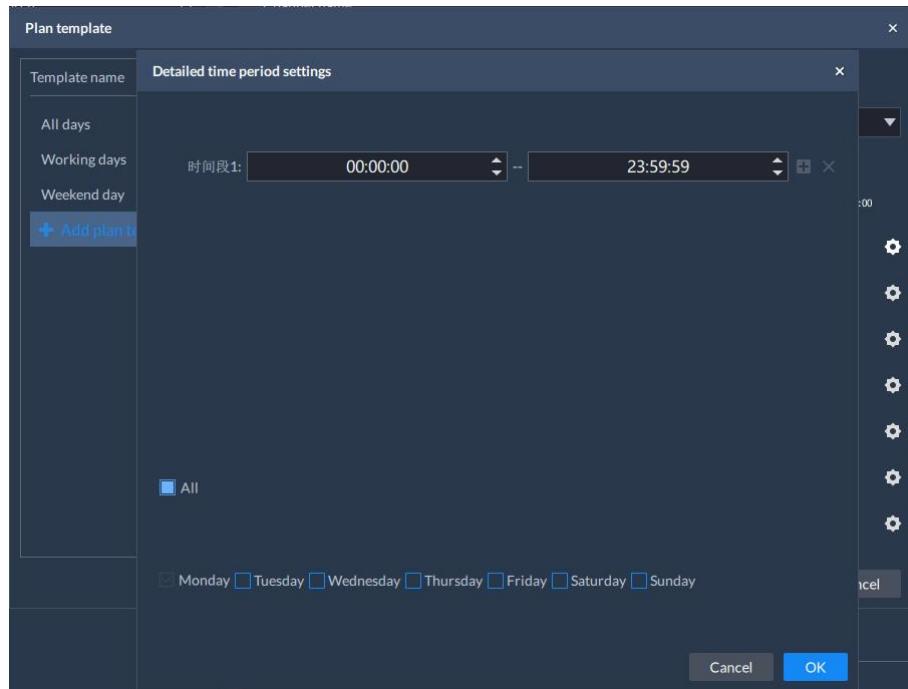
- Hold down the left mouse button and drag directly on the timeline to draw time periods.
- Click  to draw multiple time periods simultaneously.

Figure 3-20 Draw Time Periods



- Click the  corresponding to each weekday, to set the time period in the "Detailed time period settings" interface.

Figure 3-21 Set the time period



Step 7 Click OK.

3.2.6 Event Settings

After the device triggers an event, if you want to display the event on the platform, you need to open the event of receiving the device or the channel under the device in advance on the platform.

- Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Select the channel or device and click Event config on the Event information.
- Select the device to enter the event configuration interface, which only displays the common events of the device.
 - When selecting a channel, events of different channel types are displayed.

Figure 3-22 Enters the Device Event Configuration Interface

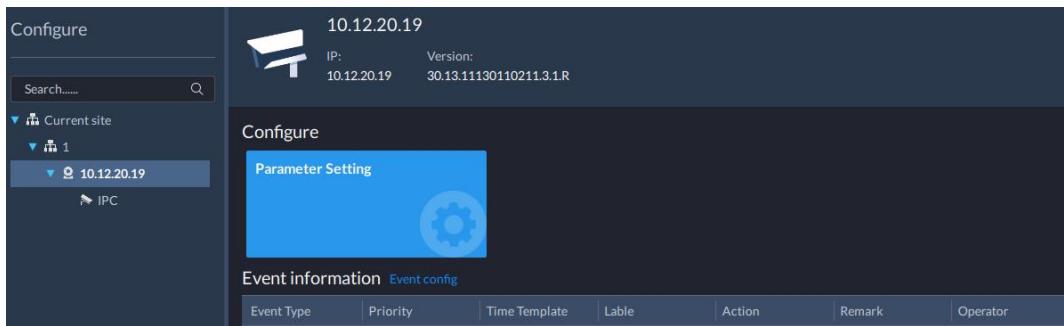
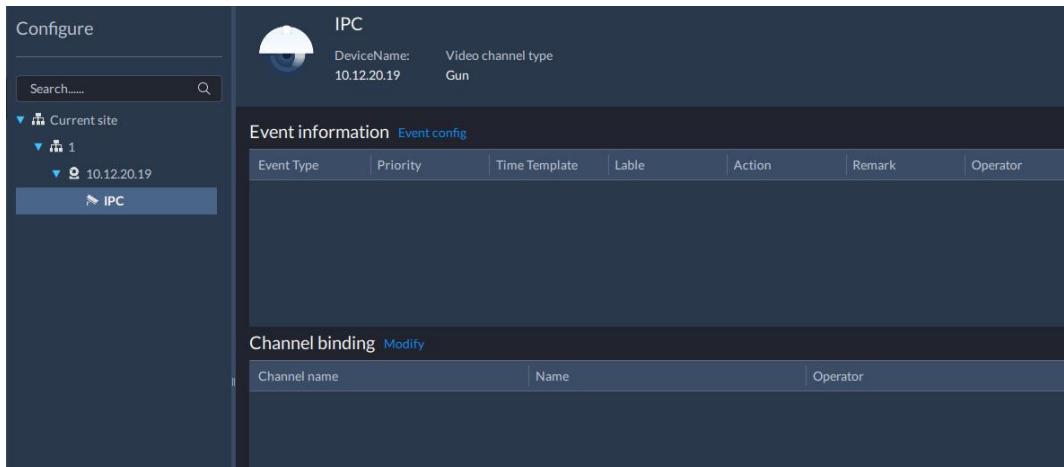


Figure 3-23 Enters the Channel Event Configuration Interface



- Step 4 Configure events. For details, see "[4.1 Event Settings](#)".

3.2.7 Device Configuration

The client is configured with the camera properties, video stream, screenshot, video overlay, and audio configuration of the device channel.



The configuration supported by the device depends on the different capabilities of the device. The interface in this chapter is for reference only. Please refer to the actual interface for details.

3.2.7.1 Set the Camera Properties

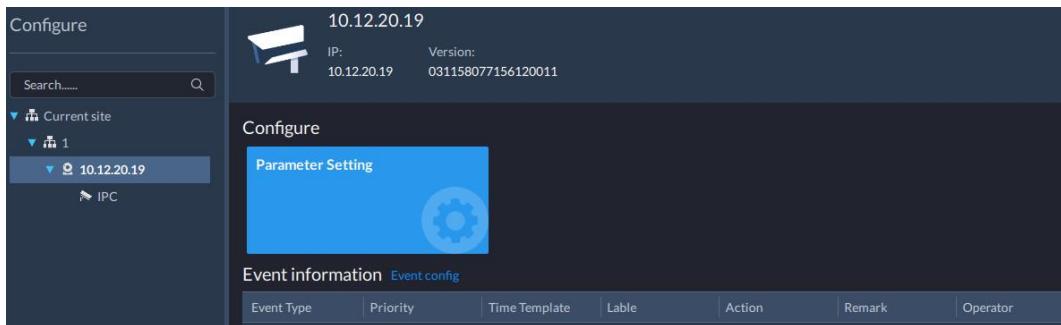
Supports the camera property files in three modes: day, night and ordinary. The system switches different

modes according to the set time to ensure high quality of the captured camera picture.

3.2.7.1.1 Set the Property File

- Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Select the device and click "Parameter Settings".

Figure 3-24 Enters Parameter Settings Interface

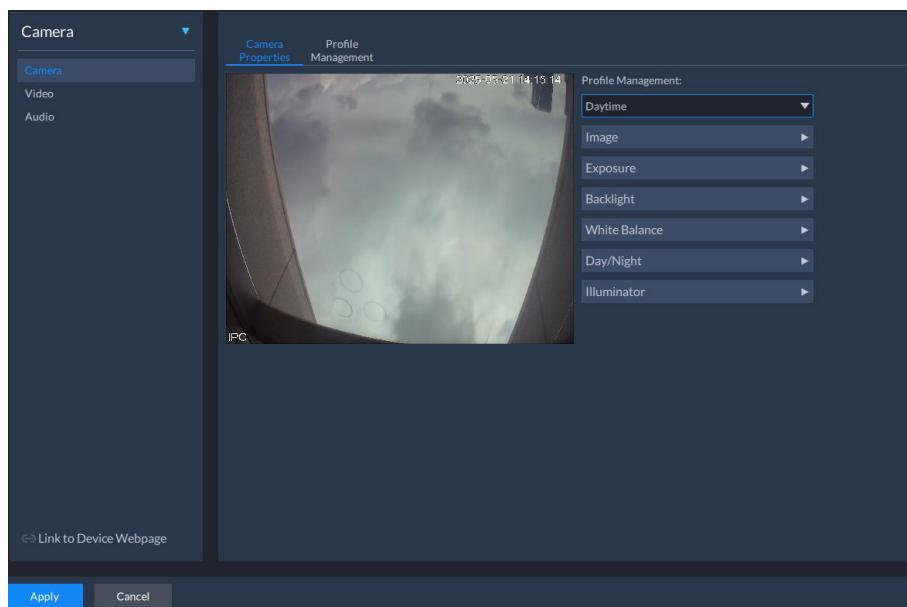


- Step 4 Select "Camera> Camera> Camera Properties".



- Click "Link to Device Webpage" to open the WEB configuration interface of the device.
- When configuring a device with the PTZ function, the PTZ console is displayed.

Figure 3-25 Enters the Device Parameter Settings Interface



- Step 5 Select "Profile Management".
- Step 6 Select the time period for which the current camera property is used. For details, see "[3.2.7.1.2 Apply Property File](#)".
- Step 7 Select Camera Properties, click Image, and set the image parameters.

Figure 3-26 Image Parameter

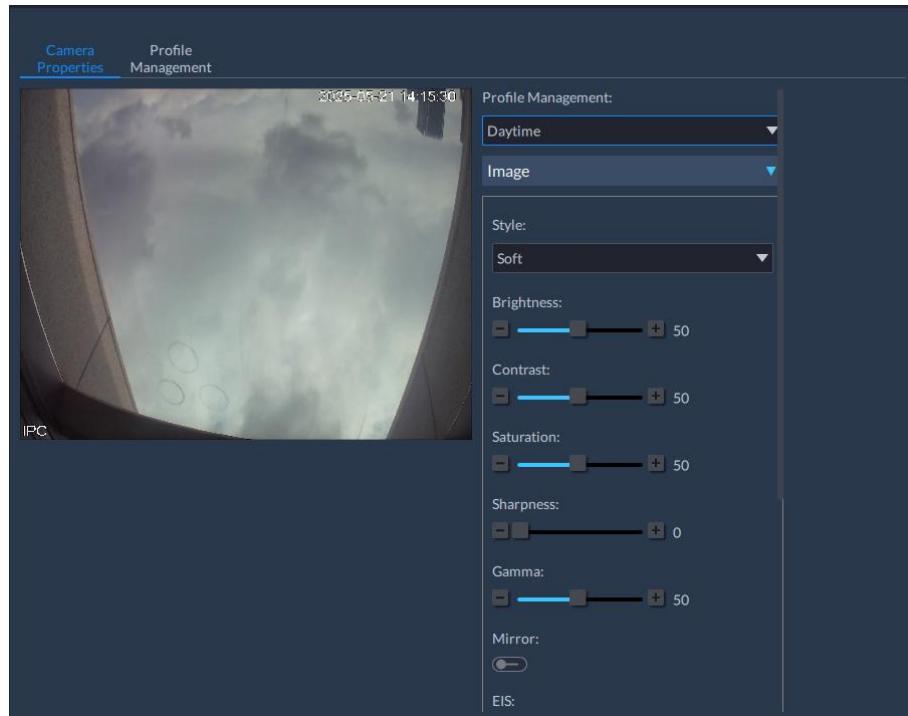


Table 3-2 Image Parameter Description

Parameters	Description
Style	Set the style of the image, which can be set as standard, soft, and gorgeous.
Brightness	The overall brightness of the image is adjusted by linear adjustment. The larger the value, the brighter the image, and vice versa. When the value is set to a large value, the image is likely to be fogged.
Contrast	Adjust the contrast of the image. The larger the value, the brighter and more contrast the image is; conversely, the smaller the value, the darker the image is and the brighter the image is prone to overexposure. If the value is too large, the dark part of the image is too dark and the bright part of the image is prone to overexposure. If the value is too small, the image will be blurred.
Saturation	Adjust the color depth. The greater the value, the more intense the color will be, and vice versa. This value does not affect the overall brightness of the image.
Sharpness	Adjust the sharpness of the edges of the image. The greater the sharpness value, the more obvious the edge of the image. When the value is set larger, the image is prone to noise.

Gamma	The image brightness is changed by nonlinear adjustment to improve the dynamic display range of the image. The greater the value, the brighter the image, and vice versa.
Mirror	Flip the video image left and right.
EIS	The electronic anti-jitter function is realized by the image difference comparison algorithm to effectively solve the image jitter during use The problem is to make the high definition picture clearer.
Visual Angle	Change the display direction of the image. <ul style="list-style-type: none">● Normal perspective: no adjustment to the picture.● Mirror image: Flip the video upside down.● Mode 1: Flip the video picture 90°.● Mode 2 of corridor: flip the video picture 270°.

Step 8 Click Exposure to set the exposure parameters.



INSTRUCTION

Devices that support true wide dynamic function do not support long exposure after the wide dynamic function is enabled.

Figure 3-27 Exposure

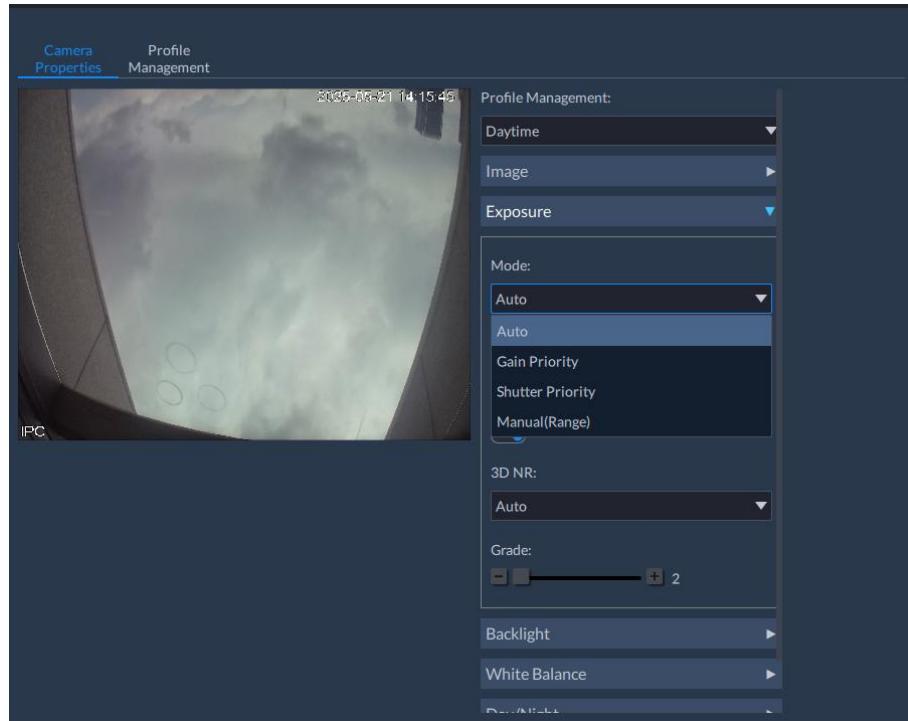


Table 3-3 Image Parameter Description

Parameters	Description

Anti-flicker Mode	<p>There are three modes: outdoor, 50Hz and 60Hz.</p> <ul style="list-style-type: none"> ● Outdoor: In this mode, you can switch the exposure mode to achieve the effect of the corresponding exposure mode. ● 50Hz: In the case of 50Hz mains power, automatically adjust the exposure according to the scene brightness and ensure that no horizontal stripes appear in the image. ● 60Hz: In the case of 60Hz mains power, automatically adjust the exposure according to the scene brightness and ensure that no horizontal stripes appear in the image.
Mode	<p>The camera's exposure modes include the following:</p> <ul style="list-style-type: none"> ● Auto: Automatically adjust the brightness of the image display according to the environment. ● Gain Priority: Within the normal exposure range, the device automatically adjusts according to the set gain range based on different scene brightness. If the image brightness does not meet the desired effect and the gain value has reached its upper or lower limit, the device will automatically adjust the shutter speed to achieve optimal brightness. In Gain Priority mode, you can also adjust the gain intensity by setting the gain range. ● Shutter priority: within the normal exposure range, according to the brightness of different scenes, the device automatically adjusts according to the set shutter range. If the image brightness does not reach the effect and the shutter value has reached the upper or lower limit, the device will automatically adjust the gain value to make the image reach the best brightness. ● Aperture priority: the aperture is fixed at the set value, and the device automatically adjusts the shutter value. If the image brightness does not reach the effect and the shutter value has reached the upper or lower limit, the device will automatically adjust the gain value to make the image reach the best brightness. ● Manual(Range): Manually set the gain value and shutter value to adjust the brightness of the image display.
2D Noise Reduction	 INSTRUCTION <ul style="list-style-type: none"> ● When "anti-flicker" is set to "outdoor", the exposure mode can be set to either "gain priority" or "shutter priority". ● The exposure mode of different devices is different. Please refer to the actual interface for details. <p>Reduce noise for a single frame.</p>

3D Noise Reduction	For multi-frame (at least two frames) images, the inter-frame information between the front and back frames of the video is used to denoise the image.
Grade	This parameter can be set when "3D noise reduction" is "on". The higher the noise reduction level value, the better the noise reduction effect.

Step 9 Click Backlight to set backlight parameters.

Backlight mode includes backlight compensation, wide dynamic range and strong light suppression.

- After turning on backlight compensation, it can avoid the phenomenon of silhouette in the dark part of the subject when shooting in backlight environment.
- After opening the wide dynamic, it can suppress the bright area and compensate for the dark area, so that the whole picture is clear.
- After the strong light is inhibited, the strong light can be weakened, which is suitable for toll stations, parking lot entrances and exits. For extreme light, it has a good effect on capturing the details of faces and license plates in dark environments.

Figure 3-28 Backlight

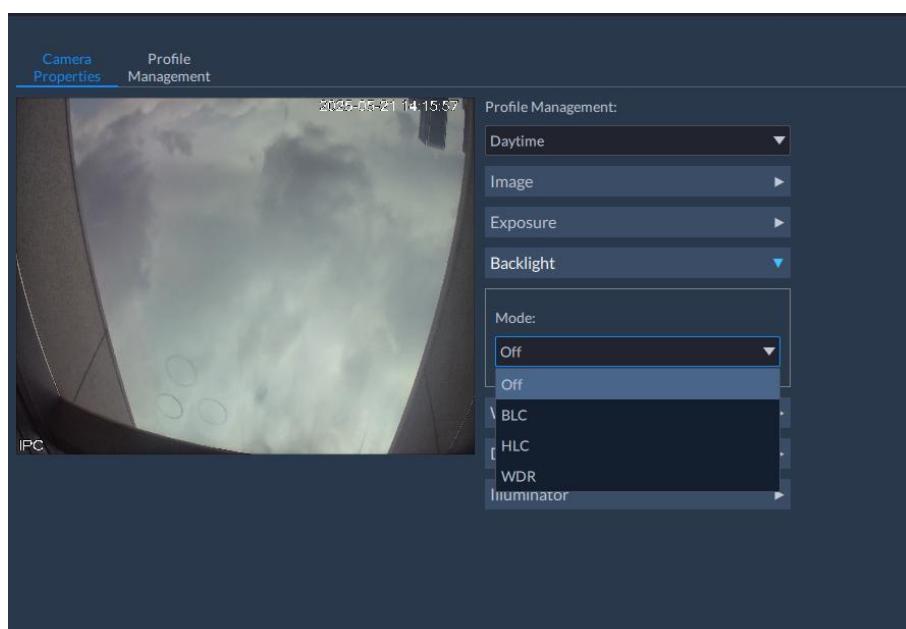


Table 3-4 Backlight mode description

Parameters	Description
Backlight Compensation(BLC)	You can choose between the default mode and the custom mode. <ul style="list-style-type: none"> ● When the "default" mode is selected, the system automatically exposes according to the environment so that the image of the darkest area can be seen. ● When the "Custom" mode is selected, after setting the custom area, the system exposes the selected area to achieve the appropriate brightness of the image in

	the selected area.
Highlight Compensation(HLC)	The system suppresses the brightness of the highlighted area of the image, reduces the size of the halo area, and reduces the brightness of the whole image.
Wide Dynamic Range(WDR)	<p>According to the ambient brightness, the system reduces the brightness of the high brightness area and increases the brightness of the low brightness area, so that the scenery in the high brightness area and the low brightness area can be clearly displayed.</p> <p> INSTRUCTION</p> <p>During the transition from non-wide dynamic to wide dynamic, a few seconds of video may be lost.</p>
Scene Adaptive	The system automatically adjusts the brightness of the image according to the ambient brightness, so that the interior objects in the image are clearly displayed.

Step 10 Click White Balance to set the white balance parameters.

The white balance function enables the color of the captured image to be accurately reflected. After setting the white balance mode, the white objects in the image can be white in different environments.

Figure 3-29 White Balance

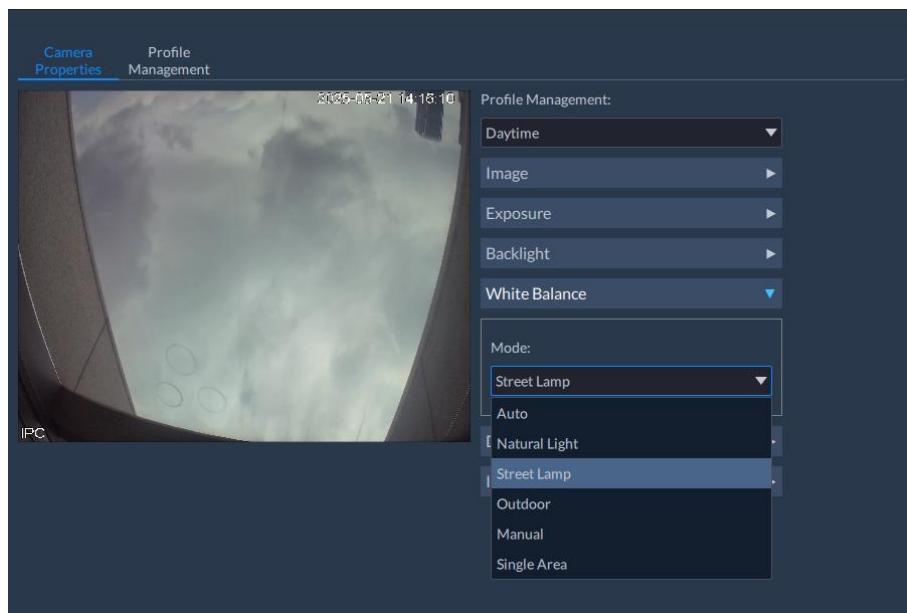


Table 3-5 White Balance Mode Description

Parameters	Description
Auto	The system can automatically compensate for the white balance of different color temperatures to make the image colors normal.

Natural Light	The system can automatically compensate the white balance for scenes without artificial light, so that the image color is normal.
Street Lamp	The system can automatically compensate the white balance of outdoor scenes at night to make the image color normal.
Outdoor	The system can automatically compensate for white balance of most outdoor scenes containing natural and artificial light, so that the image color is normal.
Manual	The red gain value and blue gain value are manually set, and the system compensates for different color temperatures in the environment according to the setting.
Single Area	Set the custom area, and the system compensates the white balance of different color temperatures of images in the area to make the image colors normal.

Step 11 Click Day/Night to set the day and night parameters.

Set the display mode of the image. The system can switch between color and black and white modes according to the environment.

Figure 3-30 Day/Night Parameters

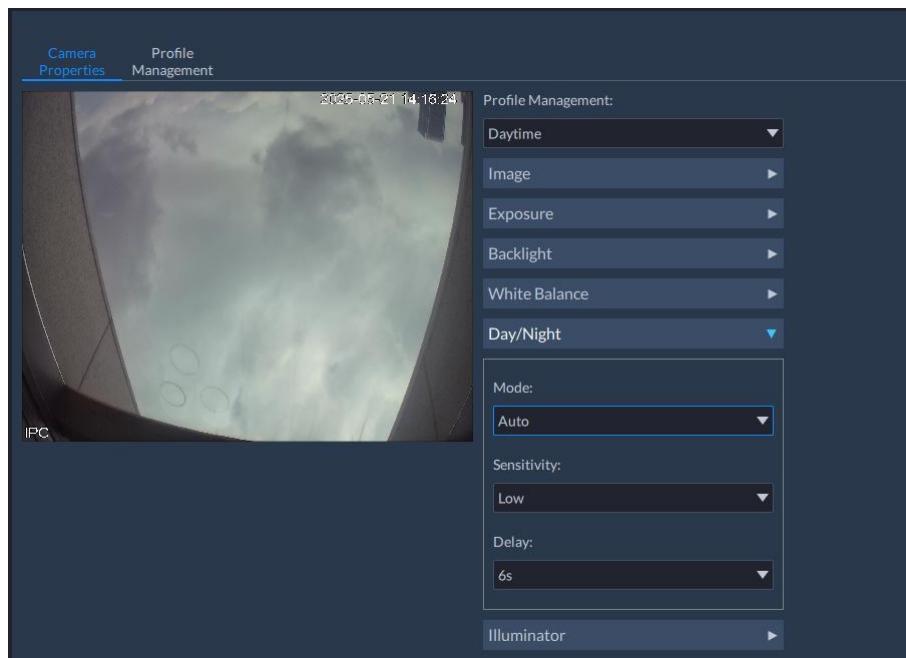


Table 3-6 Day/Night Mode Description

Parameters	Description
Mode	<p>Set the camera image display to color or black and white mode, including the following options:</p> <ul style="list-style-type: none"> Colored: The camera image is displayed as a color image.

	<ul style="list-style-type: none"> ● Black&white: The camera image is displayed as black and white. ● Auto: The camera automatically selects to display a color image or a black and white image according to the ambient brightness. <p> INSTRUCTION</p> <p>The Settings for "Day and night mode" are not affected by the Settings for "Profiles".</p>
Sensitivity	<p>This parameter can be set when the "Day/Night Mode" is set to "Auto".</p> <p>Set the sensitivity of switching between color and black and white display of camera images.</p>
Delayed	<p>This parameter can be set when the "Day and night mode" is set to "Automatic".</p> <p>Set the delay value for switching between color and black and white display of camera images.</p> <p>The smaller the delay value, the faster the color display and black and white display switch.</p>

Step 12 Click "Fog" to set the fog parameters.

When the device is in a foggy and haze environment, the image quality will decrease. The fog penetration function is turned on to adjust the sharpness of the image.

Figure 3-31 Fog Penetration

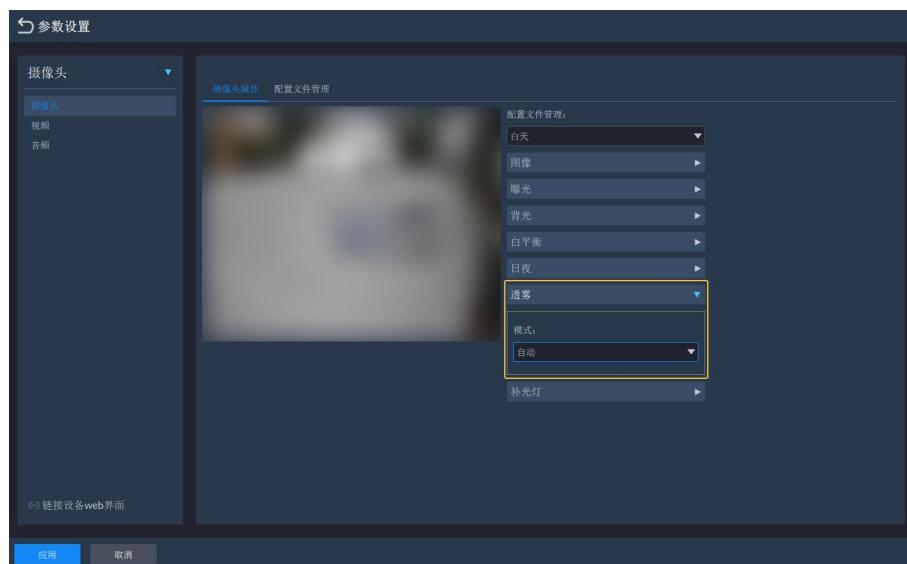


Table 3-7 Fog Penetration Mode Description

Parameters	Description
Off	Do not turn on the fog penetration function.
Auto	The system automatically adjusts the sharpness of the image according to the actual

	scene.
Manual	The system adjusts the image sharpness according to the set intensity and atmospheric light intensity mode by manually setting the intensity and atmospheric light intensity mode. The atmospheric light intensity mode can be set as automatic or manual adjustment of the atmospheric light intensity level.

Step 13 Click "Illuminator" to set the illuminator parameters.

Figure 3-32 Illuminator

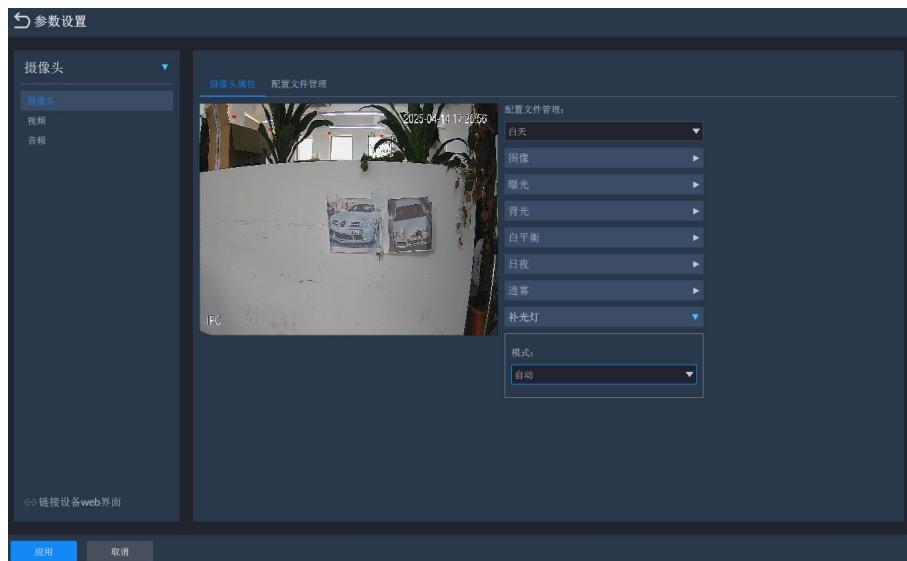


Table 3-8 Illuminator Mode Description

Parameters	Description
Manual	The brightness of the supplementary light is manually set, and the system illuminates the image according to the set brightness of the supplementary light.
Auto	The system adjusts the brightness of the light according to the actual scene.
Magnification Priority	<p>The system automatically adjusts the light source according to the brightness change of the actual scene.</p> <ul style="list-style-type: none"> ● When the actual scene becomes dark, the system will open the low beam first. If the low beam is adjusted to the brightest but still does not meet the brightness requirements of the scene, the system will open the high beam again. ● When the actual scene becomes brighter, the system will first adjust the brightness of the high beam to off, and then adjust the brightness of the low beam. ● When the lens focal length is adjusted to a certain wide Angle end, the system will not turn on the high beam light to avoid overexposure in the near. At the same time, the light compensation can be manually set to fine-tune the

	brightness of the light.
Off	Do not turn on the fill light.

Step 14 Click Apply to save the camera parameters.

If you need to configure files with different modes, repeat the operation to complete the configuration.

3.2.7.1.2 Apply Property File

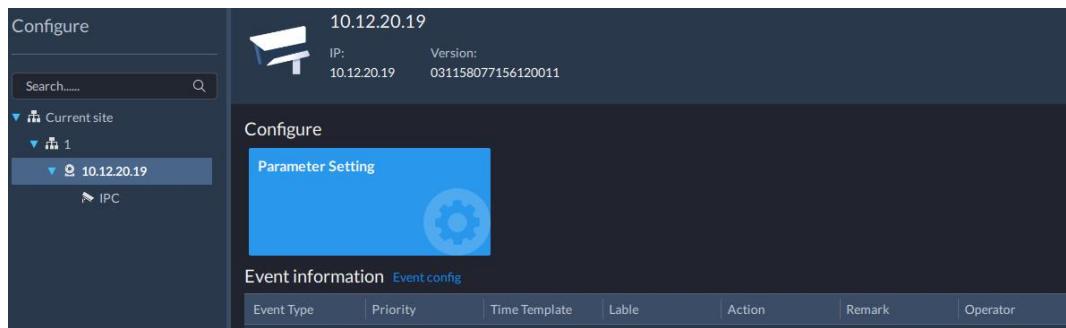
The system monitors according to the configured profile at different times.

Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.

Step 2 Click 

Step 3 Select the device and click "Parameter Settings".

Figure 3-33 Enters the Device Parameter Settings Interface

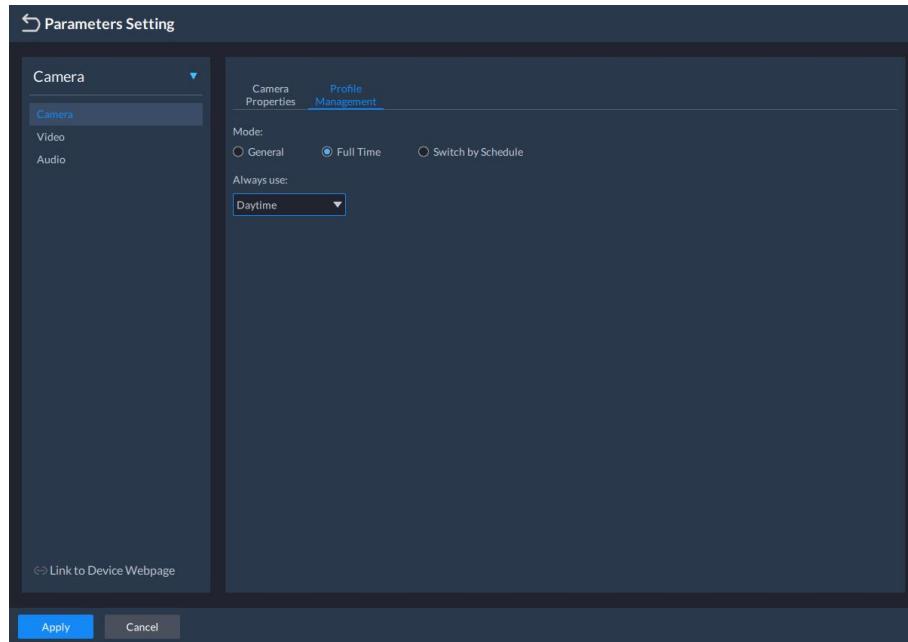


Step 4 Select "Camera> Camera> Profile Management".

Step 5 Set up the configuration file.

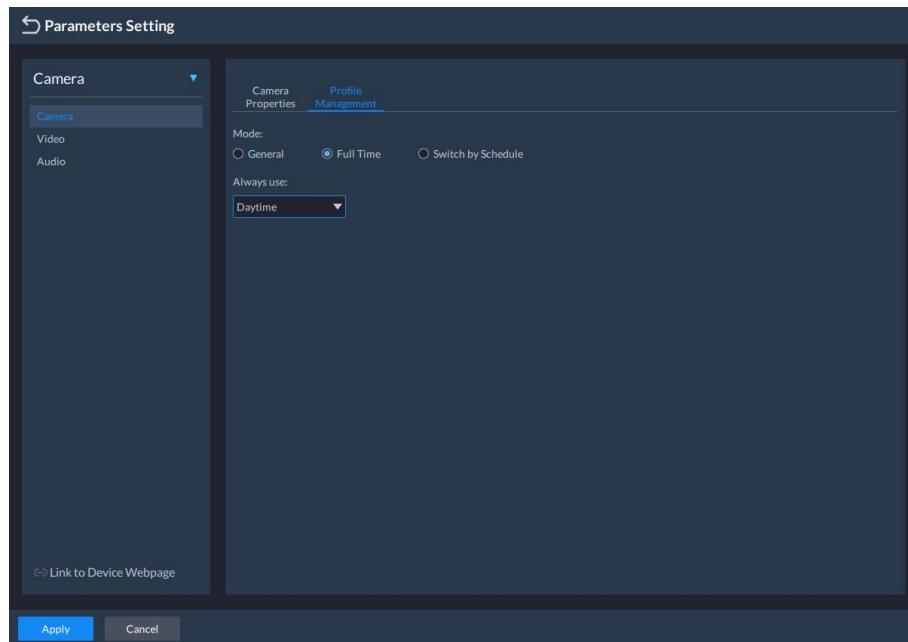
- When the "Profile Management" setting is set to "General", the system monitors according to the general configuration.

Figure 3-34 General Configuration



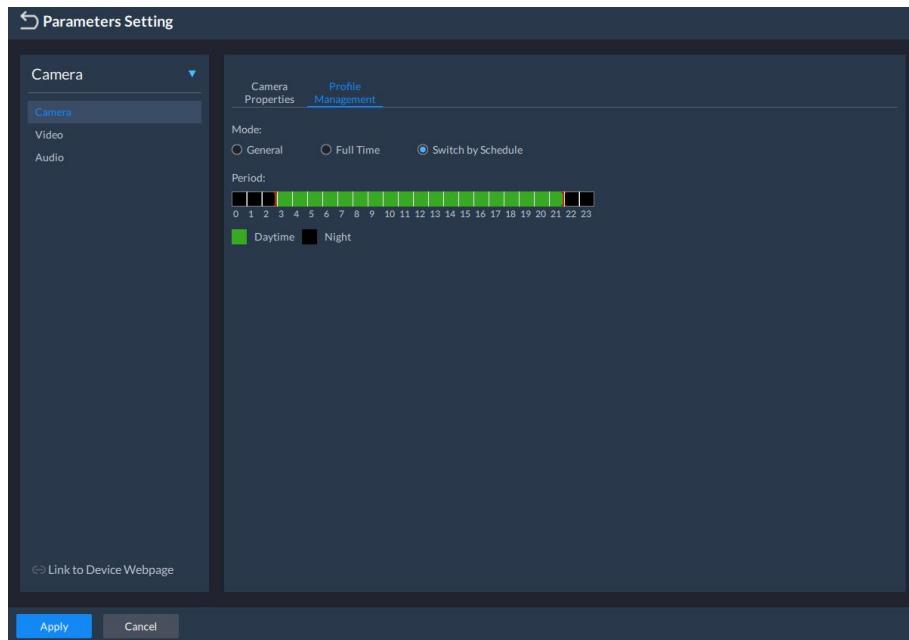
- When the "Configuration file management" is set to "all time", you can select "Always use" as "day" or "night", and the system monitors according to the configuration of "Always use".

Figure 3-35 Full-time Configuration



- When "Profile Management" is set to "Switches by Schedule", you can set a certain period of time as day or night by dragging the slider. For example, if 8:00~18:00 is set as day, 0:00~8:00 and 18:00~24:00 are set as night, the system will use corresponding configurations for monitoring in different periods of time.

Figure 3-36 Switches by Schedule Configuration



Step 6 Click Apply to save the Profile parameters.



INSTRUCTION

- Click "Link to Device Webpage" to open the WEB configuration interface of the device.
- When configuring a device with the PTZ function, the PTZ console is displayed.

3.2.7.2 Video Parameter

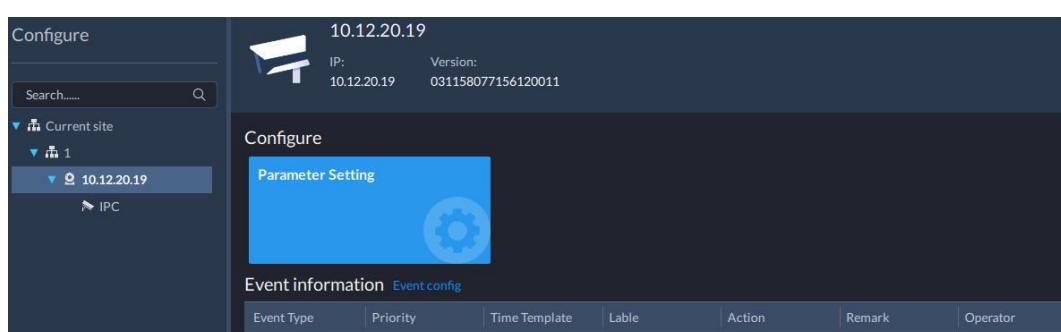
Set video parameters, including video stream, image stream, video overlay and area of interest.

3.2.7.2.1 Video stream

Set video bitstream parameters, including stream type, encoding mode, resolution, frame rate, bitstream control, I-frame interval, SVC, watermark setting, etc.

- Step 1 Log in to the client, click on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click
- Step 3 Select the device and click "Parameter Settings".

Figure 3-37 Enters Parameter Settings Interface



Step 4 Select "Camera> Video> Video Stream".

Step 5 Set the video bitstream.



The default value of the bit stream corresponding to different devices may be different. Please refer to the actual interface for details.

Figure 3-38 Video Bitstream

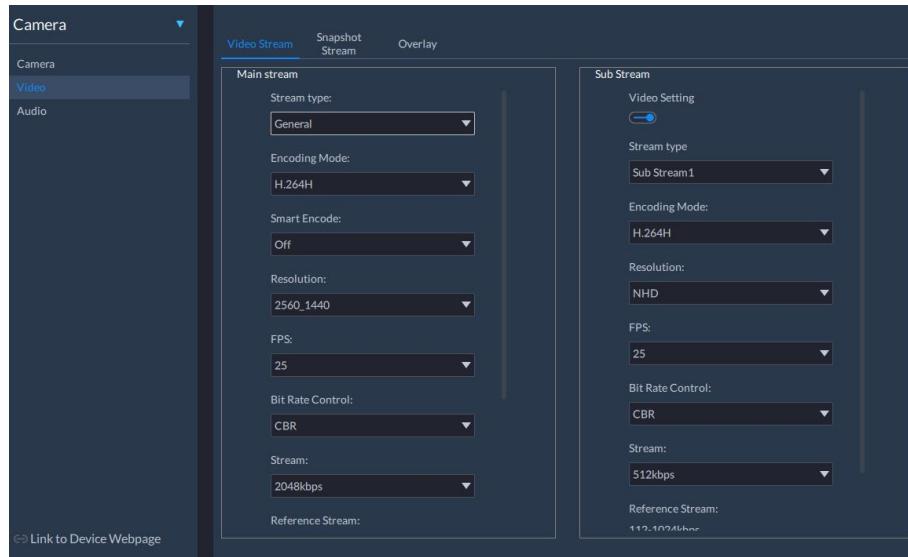


Table 3-9 Video Bitstream Parameter Description

Parameters	Description
Video Setting	Enable or disable the sub stream parameters.
Encoding Mode	<p>Video encoding mode.</p> <ul style="list-style-type: none"> ● H.264: including H.264B (Baseline Profile encoding mode), H.264 (Main Profile encoding mode) and H.264H (High Profile encoding mode). Under the same image quality, the bandwidth occupied by the three modes decreases in order. ● H.265: Main Profile encoding mode, the bandwidth occupied is smaller than H.264 under the same image quality. ● MJPEG: frame-by-frame compression coding mode, which occupies large bandwidth. The video picture needs a higher bit stream value to ensure the clarity of the image. In order to achieve better video picture effect, it is recommended to use the maximum bit stream value in the corresponding reference bit stream value. ● SVAC (Surveillance Video and Audio Coding, digital audio and video codec technology standard for security monitoring): domestic standard coding mode.

Smart Encode	<p>Intelligent coding can improve image compression performance and reduce storage space.</p> <p> INSTRUCTION</p> <p>Enable intelligent coding, the device will not support the third stream, ROI, intelligent event detection and other functions, please be practical</p> <p>The interface display is as shown.</p>
Resolution	<p>Video resolution. The maximum resolution may vary from device to device, so please refer to the actual interface display.</p>
FPS	<p>The number of frames per second contained in a video. The higher the frame rate, the more realistic and smooth the image.</p>
Bit Rate Control	<p>The video bitstream control mode includes the following options:</p> <ul style="list-style-type: none"> ● Constant Bit Rate: The bit stream changes little and the bit stream varies near the set bit stream value. ● Variable Bit Rate: The bit stream changes with the monitoring scene, etc. <p> INSTRUCTION</p> <p>When the "encoding mode" is set to "MJPEG", the bit rate control mode can only be constant bit rate..</p>
Image Quality	<p>This parameter can be set when the "bit rate control" is set to "variable bit rate".</p> <p>The quality of the video picture is graded in six grades: 1, 2, 3, 4, 5 and 6 (the highest).</p>
Stream	<p>When "Bit Rate Control" is set to "CBR", select the appropriate code stream value in the code stream drop-down box according to the actual scenario.</p> <p>When "Bit Rate Control" is set to "VBR", the upper limit of the code stream is selected according to the "reference code stream value". The code stream changes with the monitoring scene, etc., but the maximum code stream value changes around the set code stream value.</p>
Reference Stream	<p>The best bitstream value range recommended to the user based on the resolution and frame rate configured by the user.</p>
Interval	<p>The number of P frames between two I frames and the range of I frame interval vary with the frame rate.</p> <p>It is recommended to set the I frame interval to twice the frame rate.</p>

SVC	Frame rate can be coded in layers. SVC is a scalable coding method in time domain. The default value is 1, that is, no Hierarchical coding.
Watermark Settings	Select "Watermark Settings" to enable watermark function. Check the watermark character to see whether the video has been tampered with change.
Watermark Characters	The watermark character is DigitalCCTV by default.

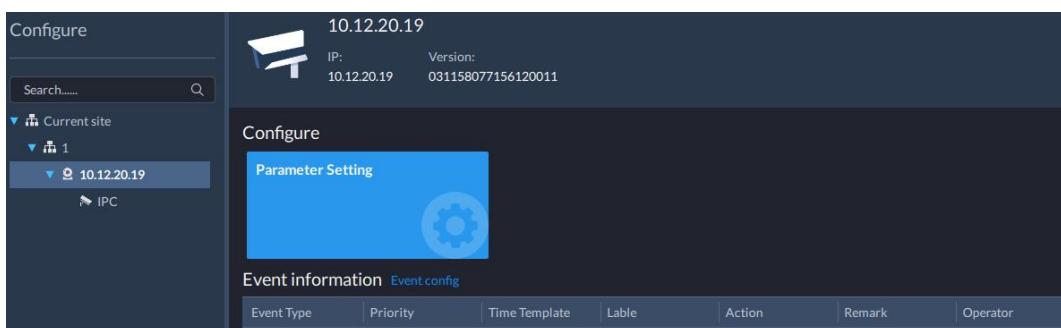
Step 6 Click Apply to save the video stream parameters.

3.2.7.2.2 Snapshot Stream

Set the snapshot bitstream parameters, including the snapshot type, image size, image quality, and snapshot interval.

- Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click 
- Step 3 Select the device and click "Parameter Settings".

Figure 3-39 Enters Parameter Settings Interface



Step 4 Select "Camera> Video> Snapshot Stream".

Step 5 Set up a snapshot stream.

Figure 3-40 Snapshot Stream

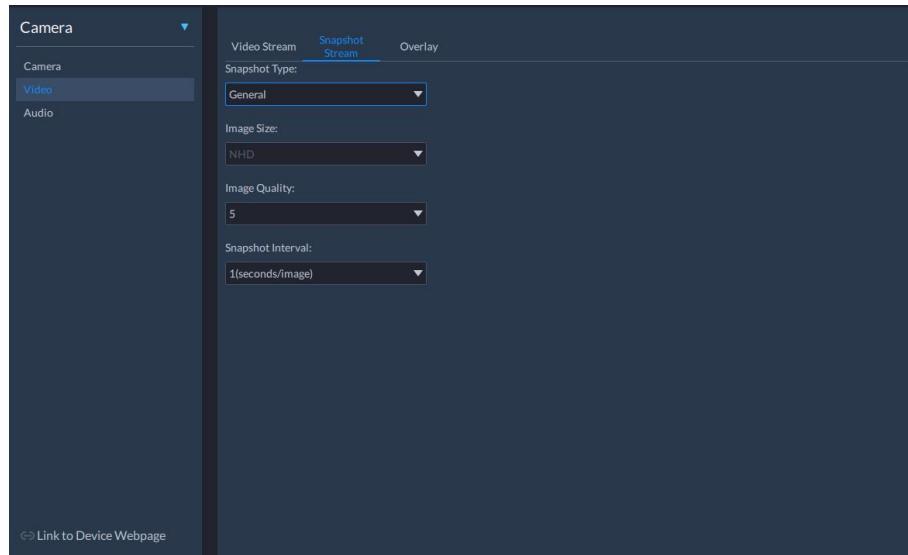


Table 3-10 Snapshot Stream Parameter Description

Parameters	Description
Snapshot Type	<p>This includes both general and trigger snapshot.</p> <ul style="list-style-type: none"> ● General snapshot refers to capturing within the range of the schedule. ● Trigger snapshot refers to capturing pictures when video detection, audio detection, intelligent event and alarm are triggered. Prerequisites means that video detection, audio detection and corresponding capture functions are all enabled.
Image Size	The same resolution as the main stream.
Image Quality	Set the image quality of the snapshot, including 6 levels: 1, 2, 3, 4, 5 and 6 (the highest).
Snapshot Interval	Set a few seconds to capture a snapshot. Supports 1~50000 seconds per snapshot.

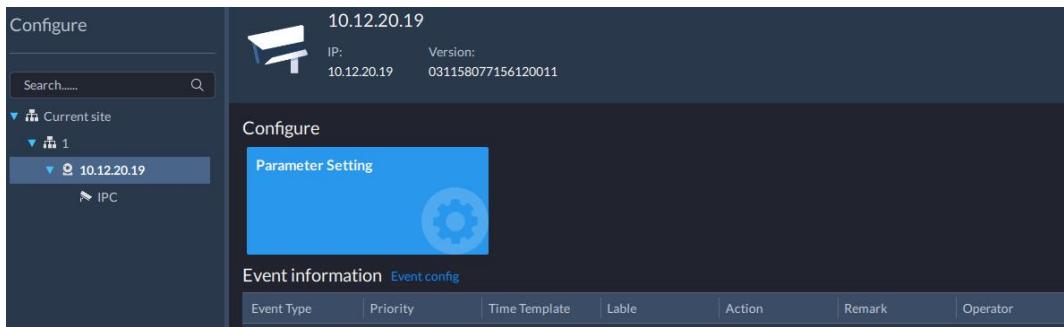
Step 6 Click Apply to save the screenshot stream parameters.

3.2.7.2.3 Overlap

Set video overlay information including area masking/privacy block, channel title, time stamp, geographic location, OSD (On-Screen Display) information, font settings, and image overlay.

- Step 1 Log in to the client, click on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click
- Step 3 Select the device and click "Parameter Settings".

Figure 3-41 Enters Parameter Settings Interface



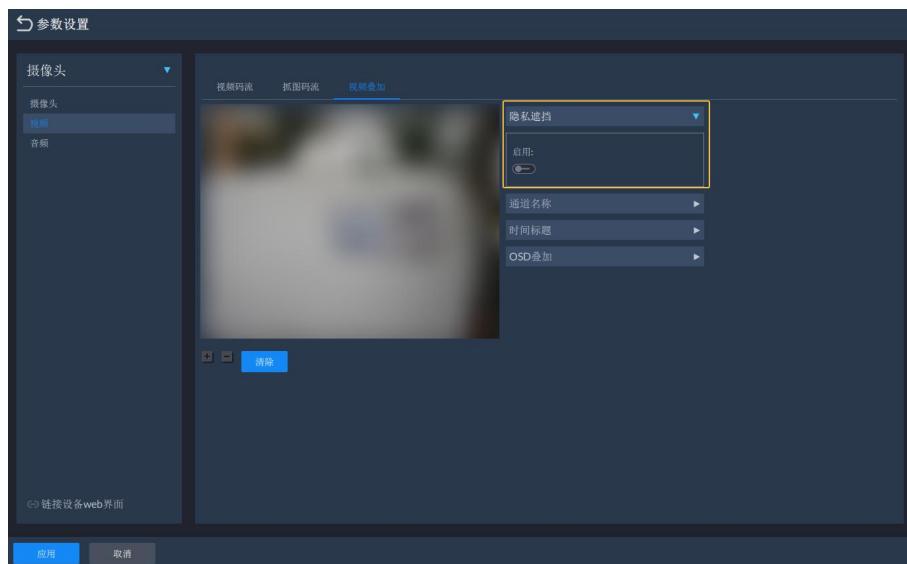
Step 4 Select "Camera> Video> Overlay".

Step 5 Set privacy blocking.

Set area coverage when you need to protect the privacy of certain areas on the video screen.

1. Click the "Privacy Block" TAB.

Figure 3-42 Privacy Blocking



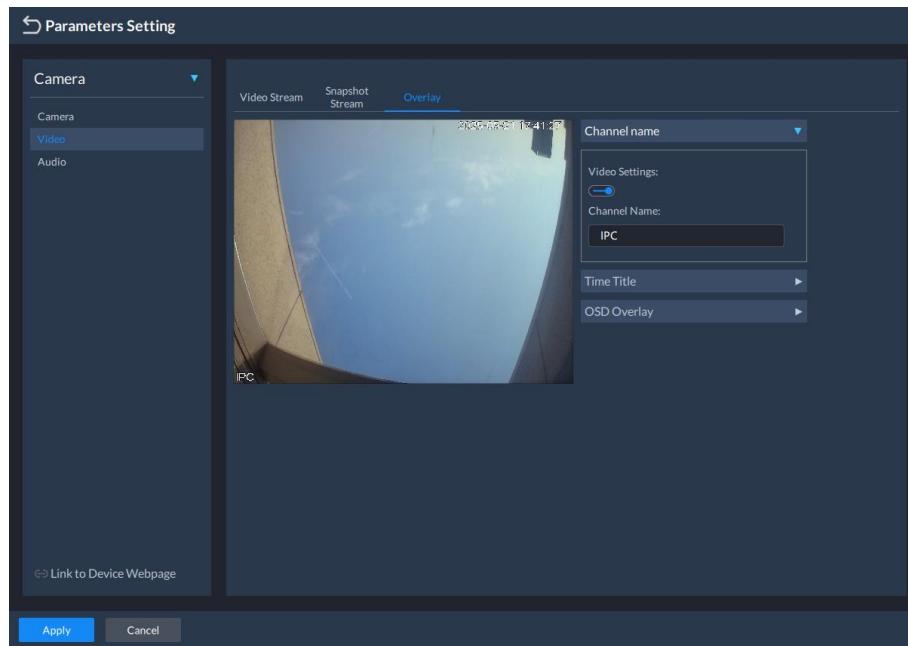
1. Click to enable privacy blocking.
2. Click to adjust the size and position of the area boxes in the video screen. Add a maximum of four area boxes.

Step 6 Set the channel name.

Set the channel name when you need to display the channel title in the video screen.

1. Click the Channel name TAB.

Figure 3-43 Channel Name



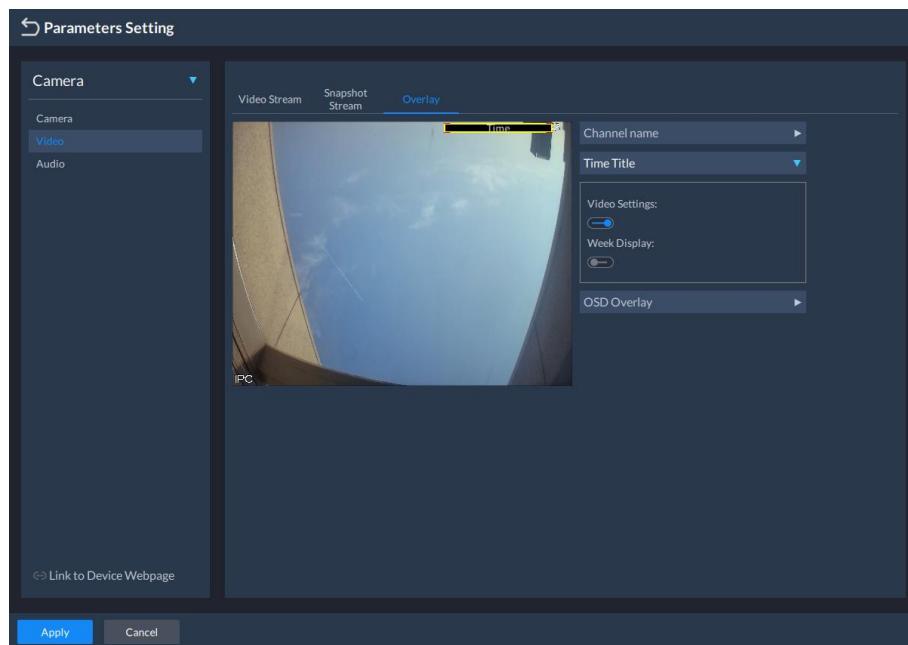
1. Click to  set the channel name.
2. Adjust the size and position of the channel name box in the video screen.

Step 7 Set the time title.

Set the time title when you need to display time information in the video picture.

1. Click the Time Title TAB.

Figure 3-44 Time Title



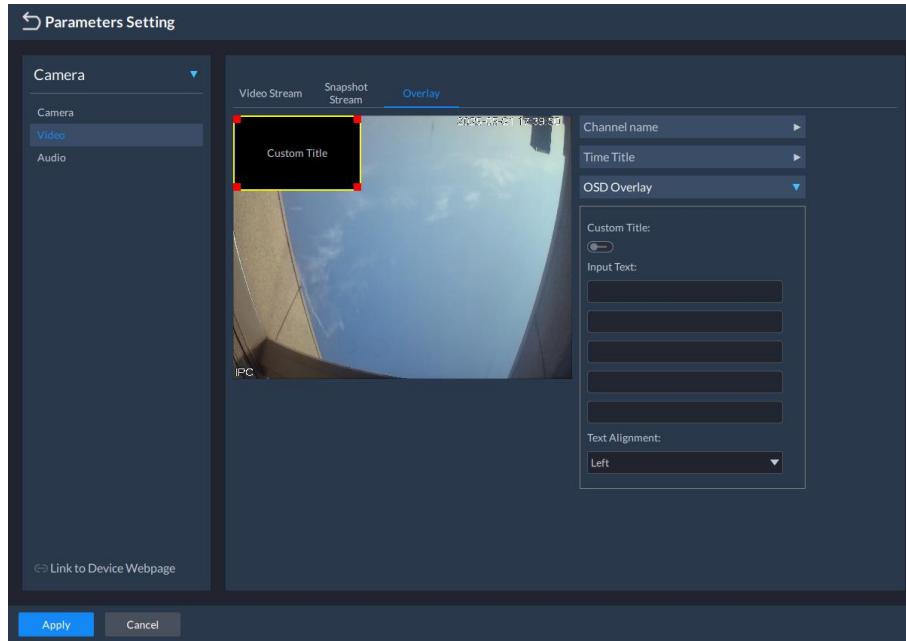
1. Click to  open the Time title.
2. (Optional) Select "Week Display".
 - If you do not enable "Week Display", the interface only shows the date and time point.
 - If you turn on "Week Display", the date, time and week are displayed on the interface.
3. Adjust the size and position of the time title box in the video frame.

Step 8 Set OSD overlay information.

When you need to display the other information in the video picture, you can set the OSD overlay information.

1. Click the OSD Overlay TAB.

Figure 3-45 OSD Overlay



2. Click .
3. Enter the information and select the alignment mode.
4. Drag the location box to the appropriate position.

Step 9 Click Apply to save the video overlay parameters.

3.2.7.3 Audio

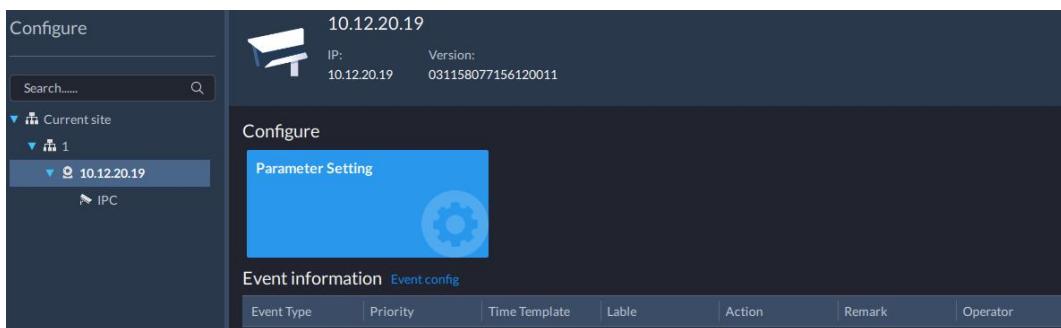
Set the audio encoding mode, sampling frequency, audio input type, ambient noise filtering and other parameters.



Some devices do not support audio function, please refer to the actual interface for details.

- Step 1 Log in to the client, click  on the "Home" interface, and select "Device Manager" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Select the device and click "Parameter Settings".

Figure 3-46 Enters Parameter Settings Interface



Step 4 Select "Camera> Audio".

Step 5 Set the audio frequency.

Figure 3-47 Audio Frequency

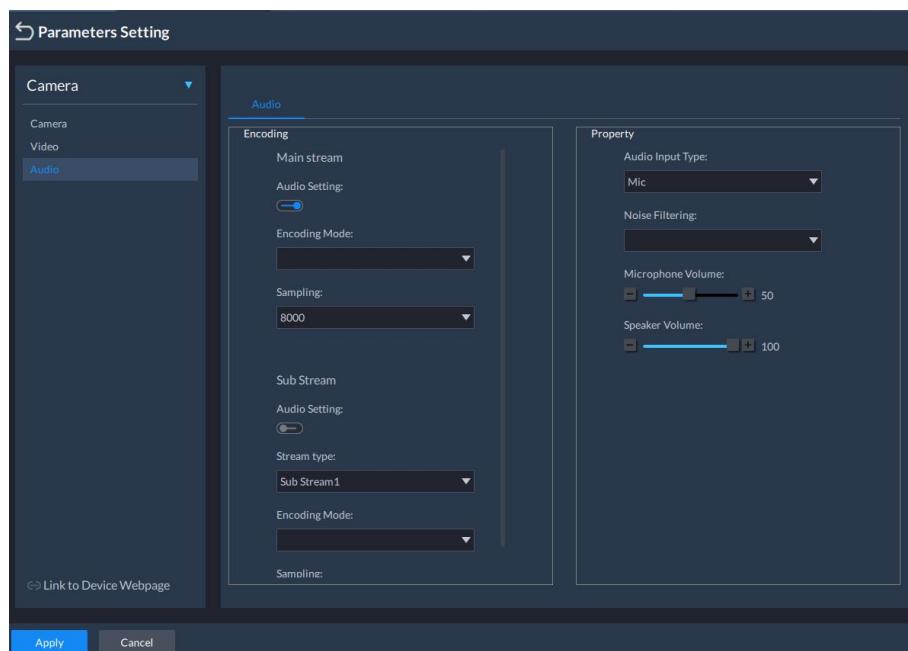


Table 3-10 Audio Parameter Description

Parameters	Description
Audio Setting	Audio can only be enabled when the video is enabled. After enabling the "enable" area of the main or auxiliary stream, the network transmission stream is a composite audio and video stream, otherwise it only includes the video image.
Encoding mode	The audio encoding mode, including G.711A, G.711Mu, AAC, G.726. The set audio encoding mode takes effect for both audio and voice intercom.
Sampling	The sampling frequency of audio can be selected from 8K,16K,32K,48K and 64K.

Audio Input Type	The type of audio connected to the device, including the following options: <ul style="list-style-type: none"> ● Mic: The device does not require an external audio device. ● LineIn: The device must be connected to an external audio device.
Noise Filtering	After the environmental noise filter is enabled, the system will automatically filter the noise in the environment.
Microphone Volume	Adjust the volume of the microphone.  INSTRUCTION Only some devices support adjusting microphone volume.
Speaker Volume	Adjust the volume of the speaker.  INSTRUCTION Some devices support adjusting the volume of the speaker.

Step 6 Click Apply to save the audio parameters.

3.3 User Management

Supports the creation of user roles and adding users. Different user roles determine that users have different device permissions, operation permissions and menu permissions. The created users are used to log in to the client and remotely control the platform.

3.3.1 Adding Roles

A role is a collection of permissions. When configuring users, the user operation permission configuration is realized by binding the role. The permissions of a role include device permission, control permission and menu permission.

The roles are divided into the following:

- Super administrator

The default role has the highest level, cannot be modified, and has all permissions. Super administrator users can create administrator roles and ordinary roles. The platform supports a maximum of 3 super administrator users.

- Administrator

The default role cannot be modified, and there is no authorization permission or backup and restore permission. The administrator user can create a normal user.

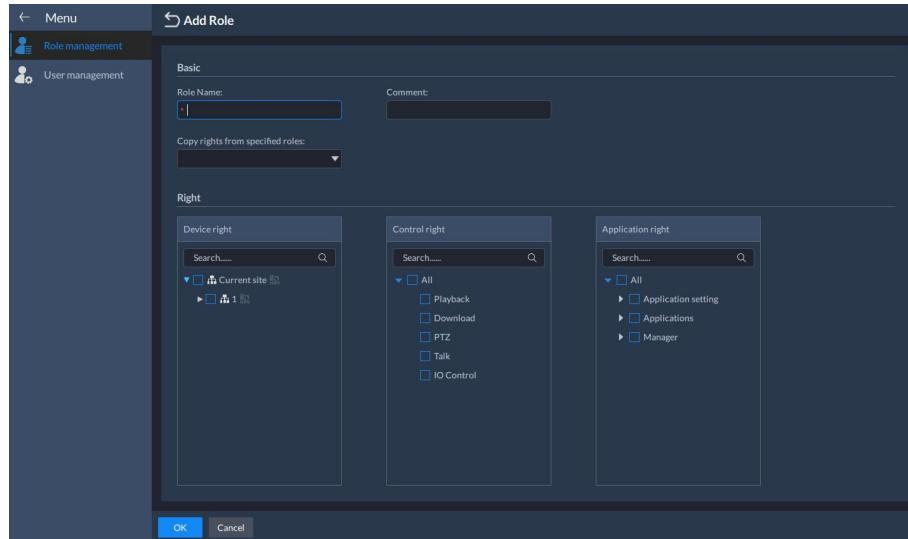
- Regular roles

Create regular roles as required. Regular roles cannot be licensed, backed up, restored, managed by users,

or managed by devices

- Step 1 Log in to the client, click  on the "Home" interface, and select "Account" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Click Add to set the basic information of the role, and select device right, control right, and application right.

Figure 3-24 Adding Role



INSTRUCTION

- If a device right or menu right is not selected, users under the role do not see the corresponding device or application.
- Click  next to the selected organization, and subsequent devices added to the organization will be automatically authorized.

- Step 4 Click OK

3.3.2 Adding Users

Create users for the platform to manage and operate the platform. User permissions are limited to the selected role. The system has added a system super administrator user by default.

Operating Steps

- Step 1 Log in to the client, click  on the "Home" interface, and select "Account" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Click Add to set user information.

Figure 3-25 Adding User

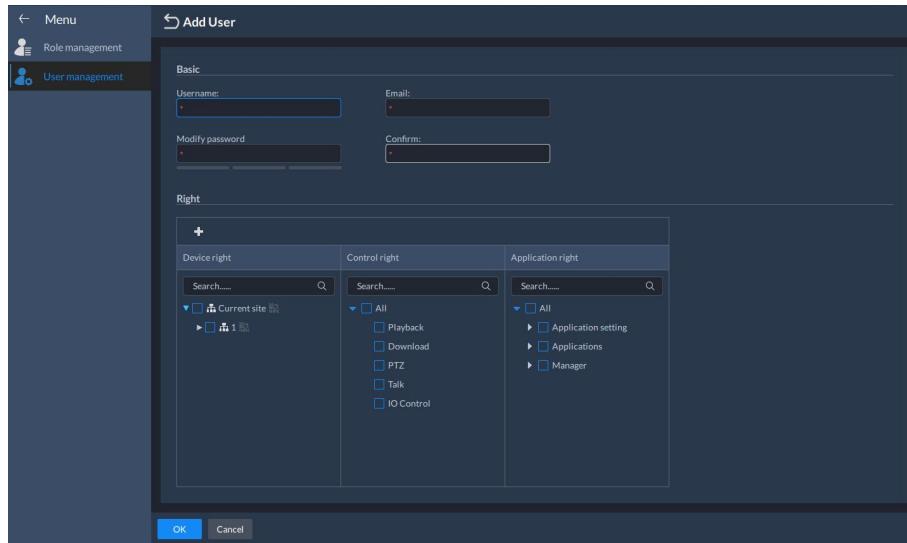


Table 3-2 Parameter Description

Parameters	Description
User Name	Used to log in to the client.
Multiple Simultaneous Client Logins Allowed	Accounts can be logged in simultaneously from multiple clients.
Password	The login password for the account.
Confirm Password	
First Login Requires Password Change	When the user account added for the first time is used to log in, the system forces the user to change the password to ensure the security of the user's password.
Forced Password Change Cycle	Force users to change their passwords regularly to ensure the security of their passwords.
Password Expiration Date	Set the password validity period. The expired password will be invalid. After the expiration, you need to change the password.
PTZ Control Right	Set the priority level of user operation on the PTZ. The higher the value, the higher the priority level. For example, in the case of PTZ lock, two users are A and B respectively. User A is set to 2 and user B is set to 3. When they operate at the same time, the PTZ is controlled by user B.
E-mail Address	The user's email address is used to reset the password and receive

	emails when an event is triggered.
MAC Address Binding	After binding the MAC address, users can only log in to the platform through the specified MAC address device when using the PC client. A maximum of 5 MAC addresses can be bound.
Role	Select one or more roles and grant device, operation, and menu permissions to the selected role.

Step 4 Click OK

Associative Operation

- Modify user information

Click to modify the user information except the user name.

- Delete the user

Click , or select the user, click "Delete", and follow the prompts to delete the user.

3.3.3 Password Maintenance

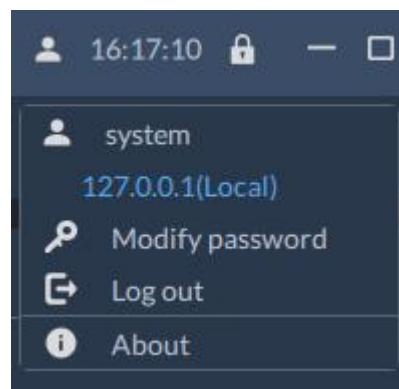
The platform supports changing the password of the logged in user, and also supports resetting the password when the system user forgets the password. If the non-system user forgets the password, the system user needs to help reset the password.

3.3.3.1 Modify the Current Account Password

To ensure account security, it is recommended to change the login password of your account regularly.

Step 1 Log in to the client and select > "Modify Password".

Figure 3-26 Modify Password



Step 2 Enter the original password and new password, and click OK.

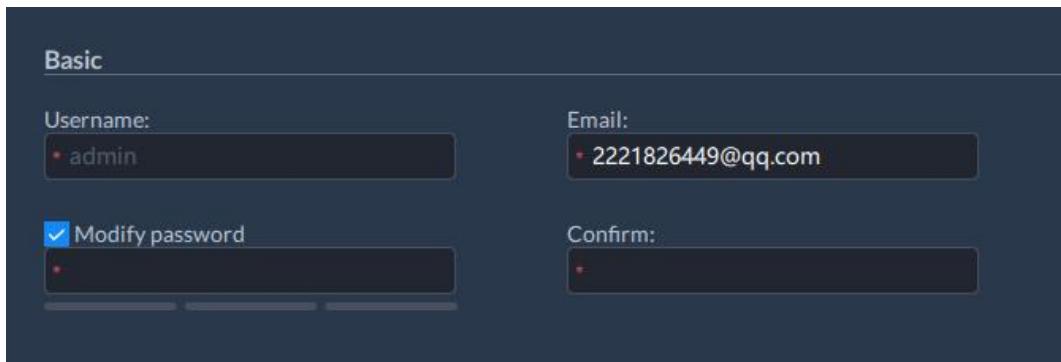
3.3.3.2 Modify Other Account Passwords

System User login can set a new password for other users, and no old password needs to be checked when

changing.

- Step 1 Log in to the client, click  on the "Home" interface, and select "Account" in the "Basic Settings" area.
- Step 2 Click .
- Step 3 Select the user to reset the password, click .
- Step 4 Select "Change Password", enter the password and confirm the password, and click "OK".

Figure 3-27 Modify User Information



3.3.3.3 Reset the User Password

The platform supports resetting passwords by answering security questions and email, but only system users support resetting passwords by answering security questions.

- Step 1 On the client login page, click "Forget Password".
- Step 2 Enter the account that requires a password reset and click Next.
- Step 3 Select the method to reset your password.
 - Use the password recovery feature to reset your password. This method is only supported by system users.
 - 1) Click "reset password through security question".
 - 2) To answer the security question, click Next.
 - Retrieve your password via email. This is supported by all users, but you must have configured an email address. For more details, see "[3.3.2 Adding Users](#)".
 - 1) Click "reset password through Email"
 - 2) Click "Send verification Code".
 - 3) Enter the verification code received in the corresponding email and click "Next".
- Step 4 Set and determine the new password, click "Next", successfully reset the password.

4 Application configuration

Set up the service and display the service application. The service includes events, maps, personnel and vehicle information, parking lots, etc.

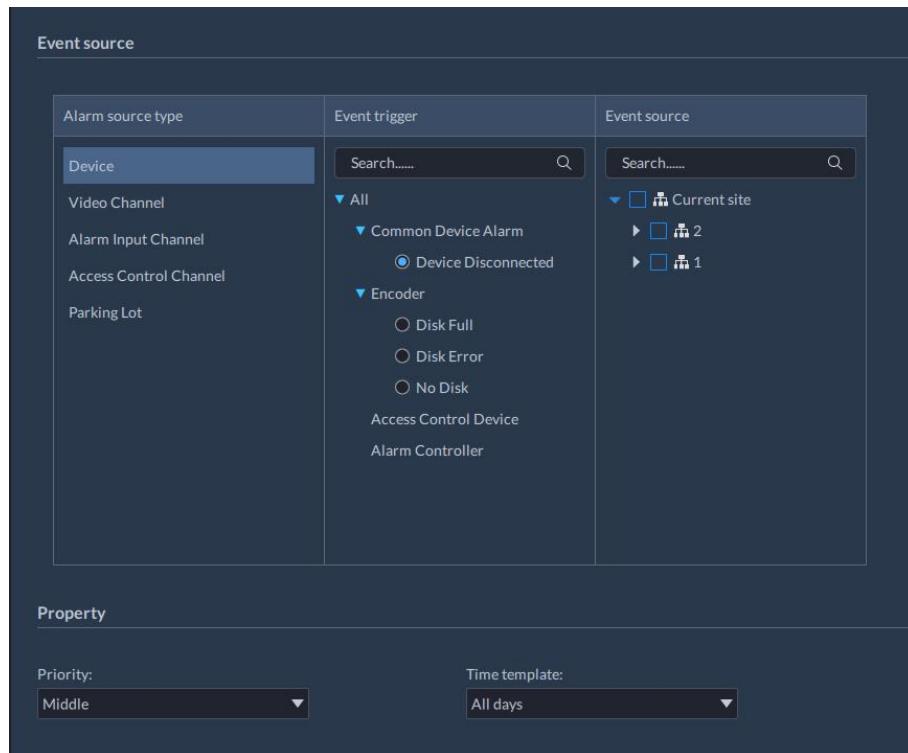
4.1 Event Settings

After the device triggers an event, if you want to display the event on the platform, you need to open the event of receiving the device or the channel under the device in advance on the platform.

Operating Steps

- Step 1 Log in to the client, click  on the "Home" interface, and select "Events" in the "Application settings" area.
- Step 2 Click Add.

Figure 4-1 Add event sources



- Step 3 Configure event sources.



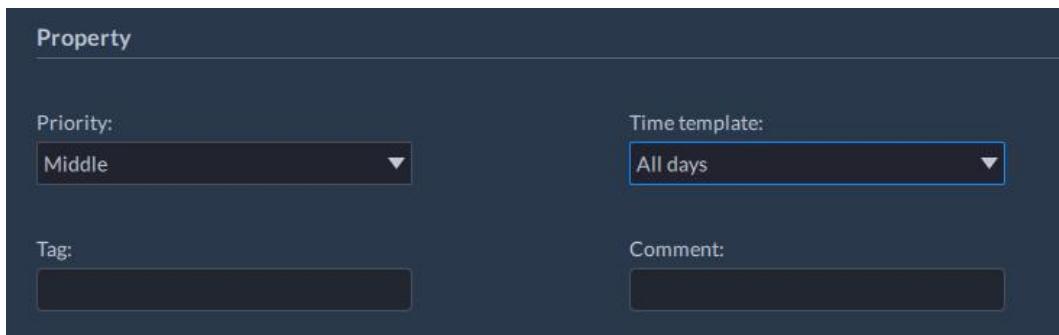
- Before configuration, please confirm that the "channel capability set" of the video channel matches the alarm type, otherwise it cannot be used as an alarm source. For detailed information about channel capability set setting, please refer to "3.2.2.5.2 Modify Device Information".
- When the alarm type is selected as "Alarm Input Channel", please confirm whether the selected

trigger event type matches the channel type, otherwise the alarm cannot be triggered.

Step 4 Click Event Properties and enter the property information.

Alarm priorities are set according to requirements to identify the importance of alarms. Alarm events and event priorities are displayed on the client.

Figure 4-2 Alarm Properties



Step 5 Click the "Link option" to configure the alarm linkage action.

The alarm linkage actions include:

- Video: when an alarm occurs, the client plays real-time video on a specified channel or records a video.

Click on the link video button , and then select the camera channel you want to link.

Figure 4-3 Video Linkage

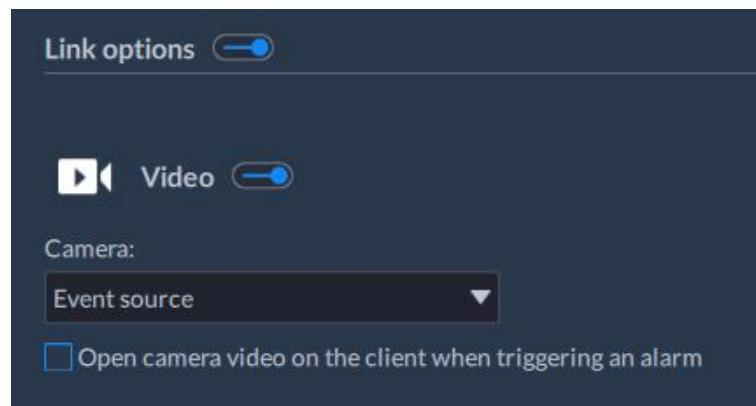


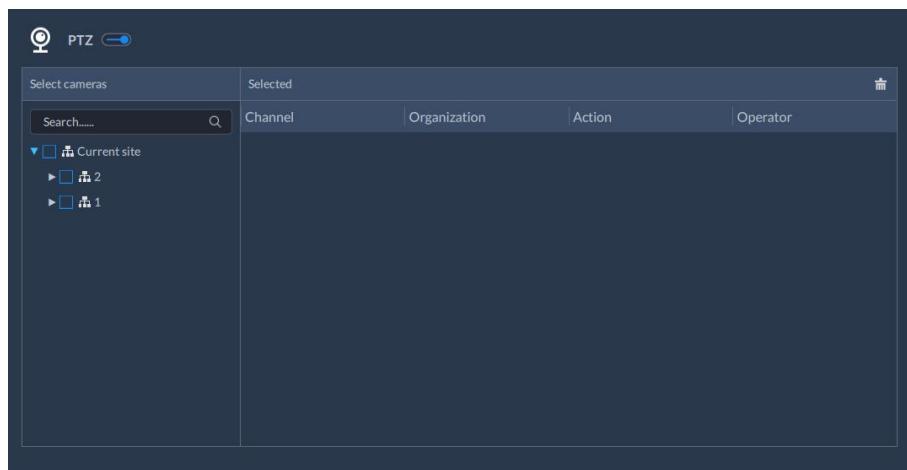
Table 4-1 Video Linkage Description

Parameter	Explain
Camera	<p>Select the video channel for client to play video or record video, including:</p> <ul style="list-style-type: none"> ● event source When an alarm occurs, the event source itself is linked to the channel. ● Bind the camera When the channel for reporting alarm has been bound to the video channel, you can select to view the video of the bound channel. For

	<p>details on binding resources, please refer to "3.2.3 Resource Binding".</p> <ul style="list-style-type: none"> ● Select the camera <p>Select according to the actual situation. When selecting to trigger the alarm, check the camera of the video.</p>
Open the camera video on the client when the alarm is triggered.	<p>When an alarm occurs, the platform automatically opens the real-time video of the channel and plays it with the set bit stream.</p> <p> INSTRUCTION</p> <p>After the event configuration is completed, you need to enable "Open alarm associated video" in the alarm parameter configuration and set the opening mode of the video. For details, please refer to "7.3.3 Alarm parameters Settings".</p>

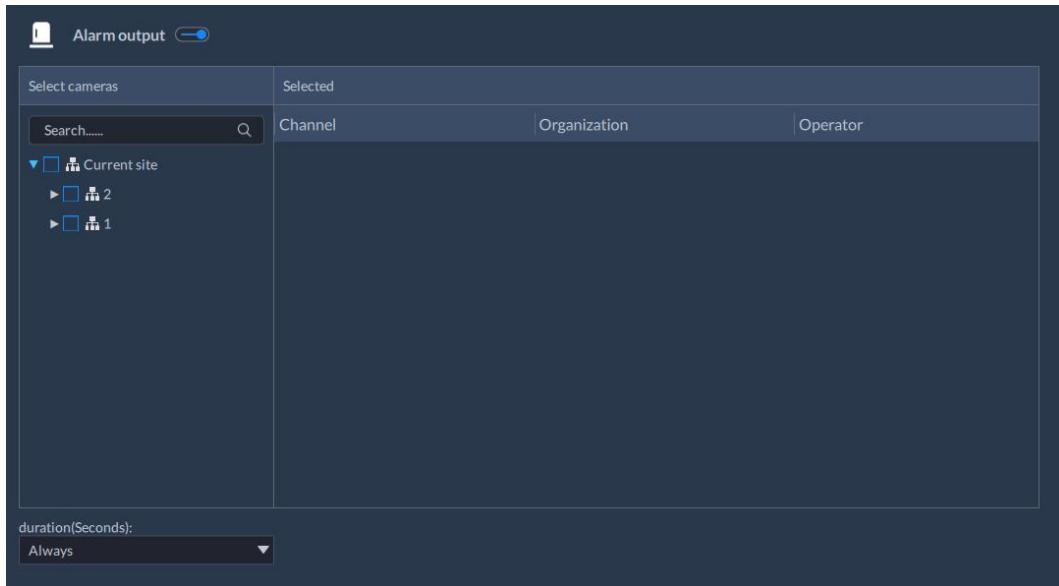
- Capture: capture the picture of the specified channel when an alarm occurs.
Click on the "Capture" button , and then select the camera channel you want to link to.
- PTZ: the designated camera performs the set PTZ action when an alarm occurs.
Click on the "PTZ" button , select the linked channel and specify the PTZ action.

Figure 4-4 PTZ Linkage



- Alarm output: when an alarm occurs, the alarm device connected to the specified alarm channel is alarmed.
Click the "Alarm output" button , select the alarm output channel, and set the alarm output duration.

Figure 4-5 Alarm Output Linkage



- Link TV-Wall. When an alarm occurs, open the TV wall and play the real-time video of the selected channel in the alarm window.

Click the "Link TV-Wall" button and select linked camera and TV wall. Click "Set alarm window" and select window as alarm window.



The linked TV wall requires that the decoder has been added to configure the TV wall. For details on configuring the TV wall, see "[5.1.5 Video Wall](#)".

Figure 4-6 TV-Wall Linkage



- Email: link email addresses to send an email to a specified mailbox when an alarm occurs.

Click the Email button , select email template, and select or enter the email address. The email template can be configured by selecting "Add email template" in the drop-down box of Mail template to set a new email template.



The platform is required to have configured the mailbox. For details, please refer to "[6.1.3 Mail Server Setting](#)".

Figure 4-7 Linked email

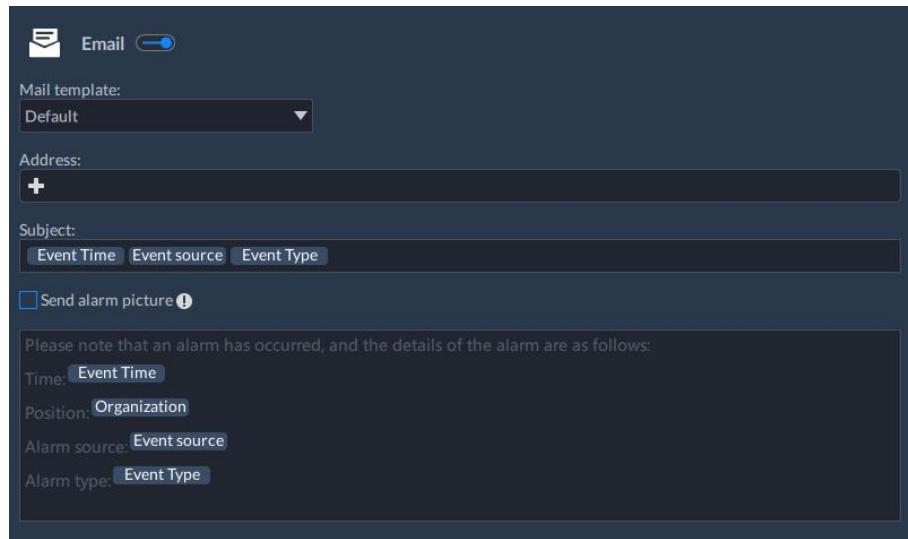
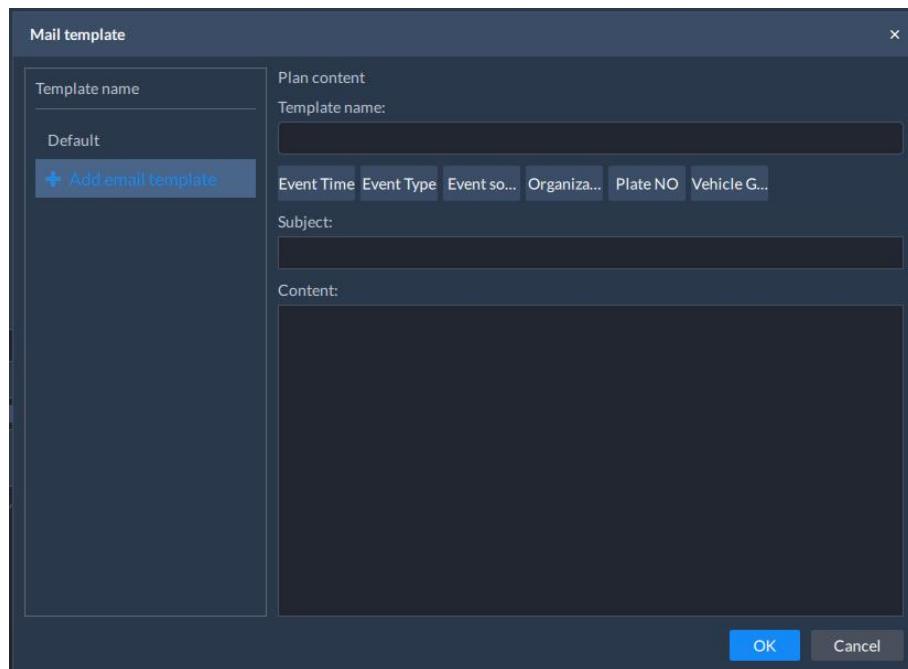


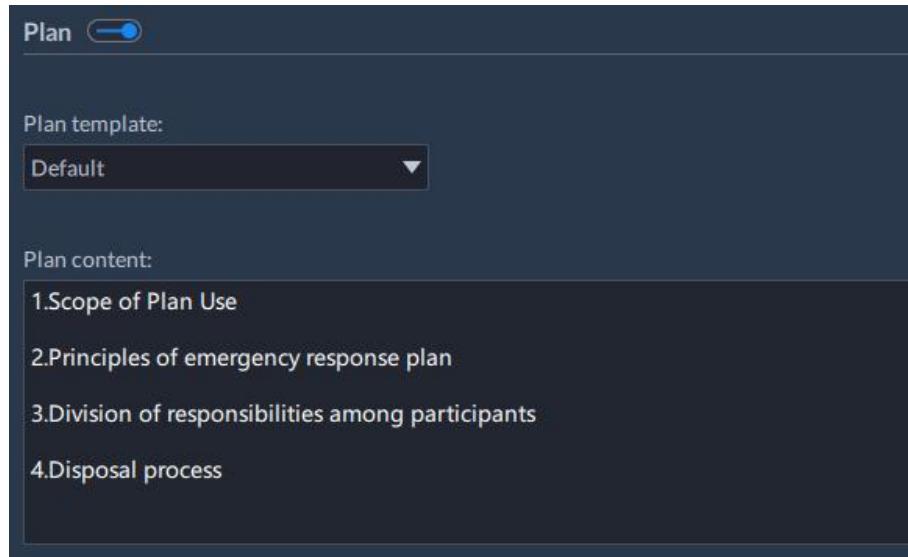
Figure 4-8 Add Email Template



- Select the alarm plan to provide guidance information for the alarm handler.

Click the "Plan" button , and select a plan from the drop-down box of "Plan template".

Figure 4-9 Emergency Alarm Plan



Click "Add plan template" in the drop-down box of "Plan template" to add a new plan.

Click to edit the content of the plan.

Step 6 Select the users to notify.

When an alarm is triggered, if the selected user is logged into the client, will receive the alarm. For details on adding users, please refer to "[3.3.2 Adding Users](#)".

Step 7 Click OK.

Associative Operation

- Edit the event

Click the event to edit the event.

- Delete the event

Click the event to delete the event.

- Discontinued events

When the event is clicked, the icon changes to indicate that the event has been disabled.

4.2 Map Settings

Before using the electronic map function, you need to add the map and drag the video channel, alarm channel and so on to the map before using the map function. The electronic map supports alarm prompt, video view, video playback, etc.

The map type is raster map, which displays a picture and is more suitable for indoor scenes. The camera is placed in a fixed place indoors, such as a parking lot or other planar scenes.

4.2.1 Preparation Before Configuration

- The equipment deployment has been completed as required. Please refer to the device manual for details.

- The basic configuration of the platform has been completed. For details, see Chapter [3 Basic Configuration](#).
- Please prepare pictures as maps in advance.

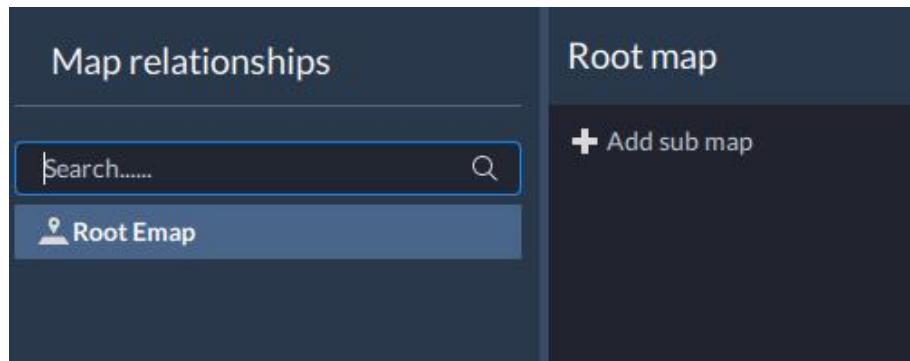
4.2.2 Add Maps

Raster images are added to view detailed scene images, such as those for a flat parking lot. Multiple raster images can be added to support multiple operations.

Operating Steps

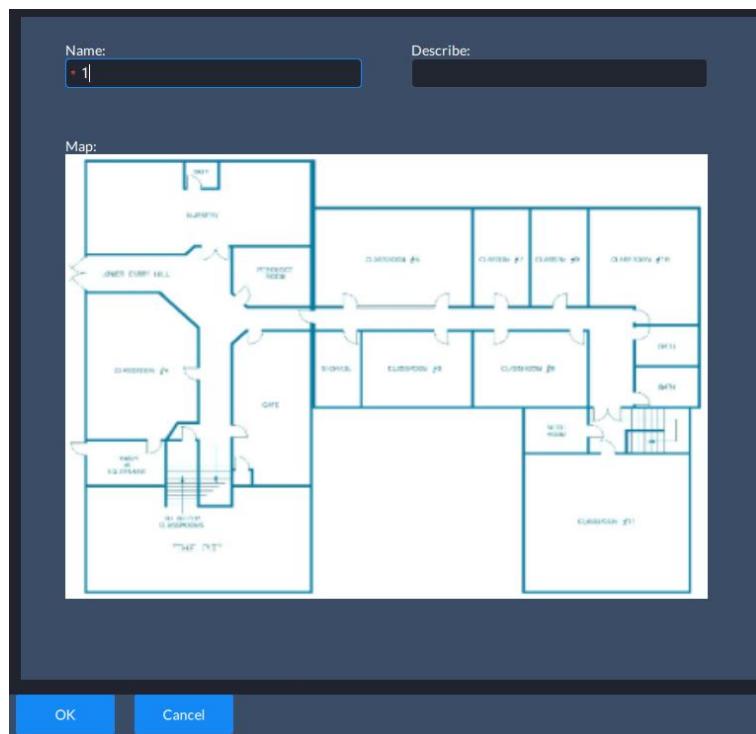
- Step 1 Log in to the client, click  on the "Home" interface, and select "EMap" in the "Application settings" area.
- Step 2 Select the main map and click Add main map.

Figure 4-10 Add "Maps"



- Step 3 Enter the name, select the uploaded image, and click OK.

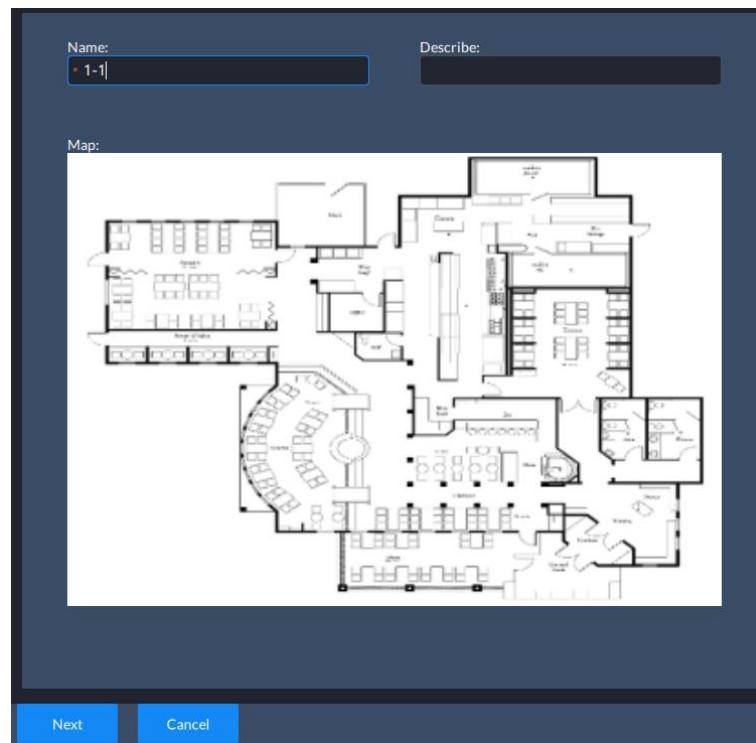
Figure 4-11 New Maps



- Step 4 Add sub maps.

1. Click on the map that has been added and click Add sub map.
2. Enter the name of the sub map and upload the image, then click Next.

Figure 4-12 Add Sub Map(1)



3. Drag the icon to the correct position and click OK.

Associative Operation

More map interface operations:

- Hide device name
Hide the name of the device and only display the icon.
- Show device
The filter displays the video channel and alarm input channel.
- Move
Click "Move" and drag the device on the map to adjust its position.
- Delete resource
 - Click Select to select a single device, and click Delete.
 - Click "Box", draw a box on the map, the interface displays a list of all devices in the box selection area, select the device, and click "Delete".
- Clean
Click Clean to erase all markers from the map.
- Add sub map
Add a sub map to the map for more detailed information about your current location.

- **Mark**

Click "Mark" to mark information on the map.

- **Reset**

Click "Reset" to restore the map to its initial center position and zoom level.

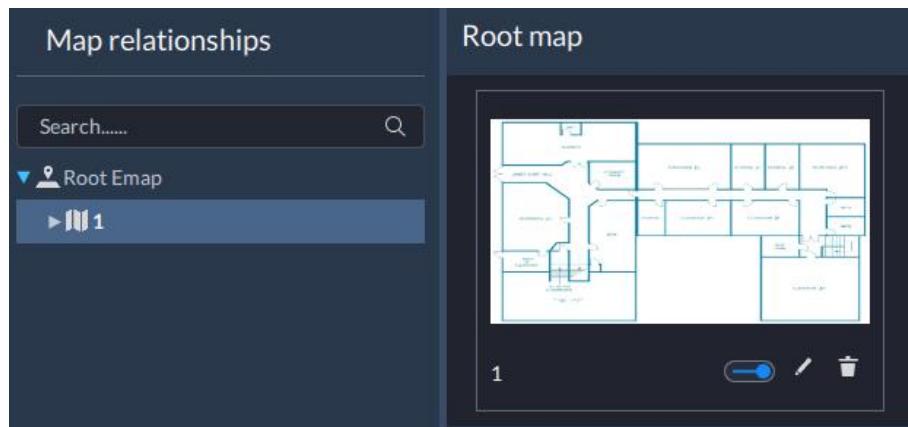
- Click  to modify the information of the sub map.
- Double-click  and the system automatically jumps to the sub map, where you can drag the channel into the sub map.

4.2.3 Marking Device

According to the actual installation position of the device, drag the device to the corresponding position on the map to realize the association between the device and the map.

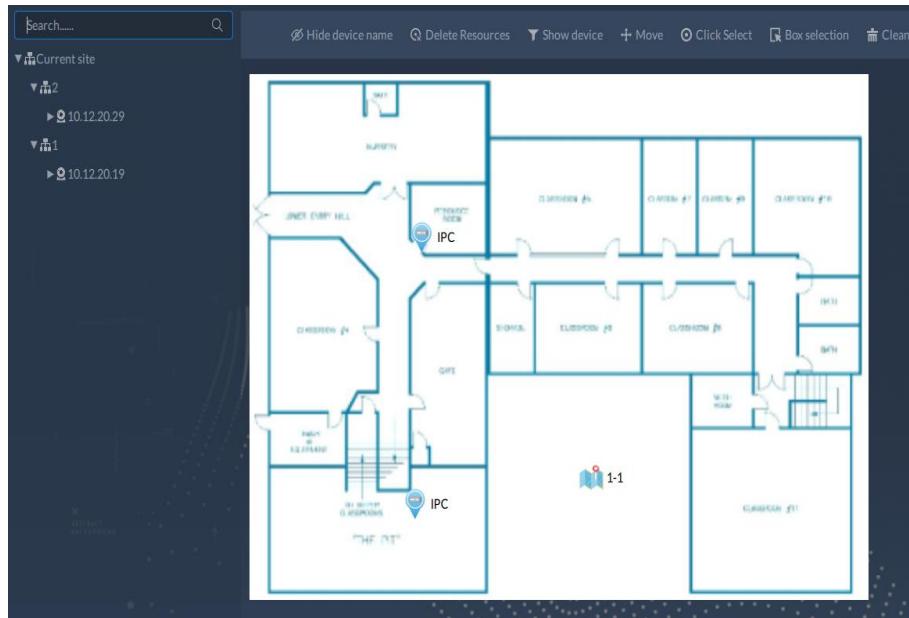
- Step 1 Log in to the client, click  on the "Home" page, and select "Map" in the "Application setting" area.
- Step 2 Click on the map.

Figure 4-13 Map



- Step 3 Drag the device channel from the left device tree to the corresponding position on the map.

Figure 4-14 Marking Device



4.3 Personnel and Vehicle Management

- The platform uniformly manages the personnel information such as entrance and exit. If the added personnel is bound to the vehicle information, it will be synchronized to the vehicle list.
- Vehicle information is used as the basis for determining whether a vehicle can enter a field in the entrance and exit business. If the added vehicle is bound to the personnel information, it is synchronized to the personnel list.

4.3.1 Personnel Management

4.3.1.1 Add a Member Group

Pre-create groups in advance to organize personnel efficiently. When adding people, they can be added to different groups for easier authorization by group. If the company or organization using the platform already has business departments, it is recommended to use the common personnel groups of business departments.

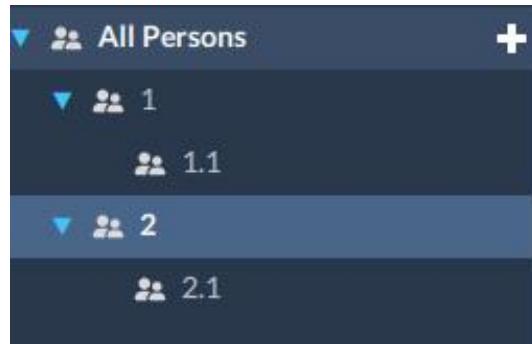
Operating Steps

Step 1 Log in to the client, click on the "Home" interface, and select "Human&vehicles" in the "Application setting" area.

Step 2 Click

Step 3 Click

Figure 4-15 Create a New Personnel Group



Step 4 Enter the group name and click OK.

The add group is displayed in the personnel group list.

Associative Operation

- Delete the group

Select the personnel group and click . The permissions of the relevant personnel will also be deleted synchronously.

- Rename the group of personnel

Select a group of personnel, click to modify the group name.

- Adjust the personnel group to which the staff belongs

Select the person in the list of people, click Move to, select the group of people to move into, and click OK.

4.3.1.2 Add Personnel

Add personnel information and authorize permissions such as vehicle access control.

4.3.1.2.1 Add Individual Personnel

Operating Steps

Step 1 Log in to the client, click on the "Home" page, and select "Human&Vehicle" in the "Application setting" area.

Step 2 Click .

Step 3 Click Add at the top of the interface.

Step 4 In the "Basic info" area, configure the personnel basic information.

1. Move the mouse to the picture area, click "Upload", according to the interface prompt to upload the picture, or if the PC has a camera head, click "Capture" to capture the face and upload.



You can upload or capture two images, but only some devices support the second image.

Face image quality requirements:

- Front shoulder profile photo, level view, eyes open, natural expression.
 - No face cover (such as hat, mask, glasses, etc.).
 - It is recommended to expose the head and not cover the hair.
 - The image is less than 100 KB, and the optimal face pixel width is 200px.
 - Capture parameters can be set. In the "Capture" interface, select camera, pixel format, resolution and set image quality. The settings only take effect for this client.
2. Fill in the personnel information as required, including ID, name, gender, personnel group, email, telephone and other information. The personnel ID is a required item and must be unique. It supports up to 30 digits and letters.

Figure 4-16 Personnel Basic Information

The screenshot shows a dark-themed user interface for entering personnel basic information. At the top, a header reads 'Basic Info'. Below it, there are several input fields and dropdown menus. On the left, the 'ID' field contains '1655580'. Next to it is a placeholder profile picture. To the right of the ID are fields for 'Name' (empty), 'Gender' (set to 'Unknown'), 'Personnel Group' (set to '1.1'), 'Email Address' (empty), 'Telephone' (empty), and 'Remark' (empty). At the bottom of the main section, there are two expandable sections: 'Other Info' and 'Vehicle information', each preceded by a double-right arrow icon.

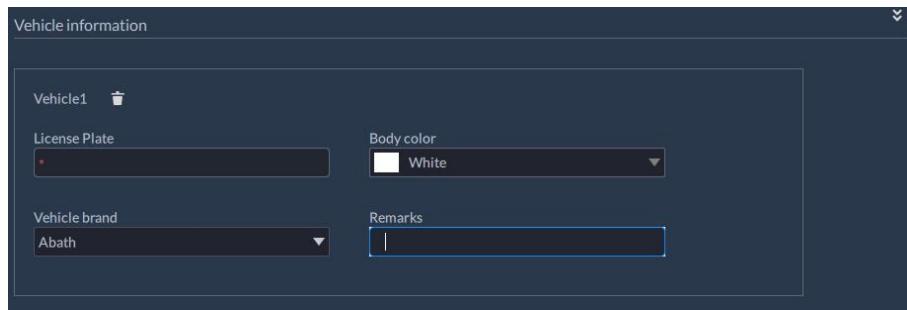
Step 5 Click "Other info >>" to add the nickname, address, id card, birthday, company and other information of the personnel.

The nickname is used for the VTO address book name display.

Step 6 If the person has a vehicle, click "Vehicle information >>" to bind the vehicle information to the personnel.

Click to enter the license plate information, select the body color and vehicle brand. Support adding multiple vehicles, after adding you can authorize the access rights of the vehicle.

Figure 4-17 Vehicle Information



Step 7 Click OK.

The interface displays the added personnel information.

Personnel List

Personnel Group		1.1			
		+ Add	Delete	Delete All	Import
Search.....		Export	Move to	<input type="checkbox"/> Include subgr...	ID/Name/Plate
▼ All Persons					
▼ 1					
▼ 1.1					
b 1704543					
1.1					
▼ 2					
▼ 2.1					
c 1730228					
1.1					
a 1655580					
1.1					

Associative Operation

- Edit personnel

Supports operations such as modifying personnel information, vehicle information or uploading face pictures. Click to modify personnel information.

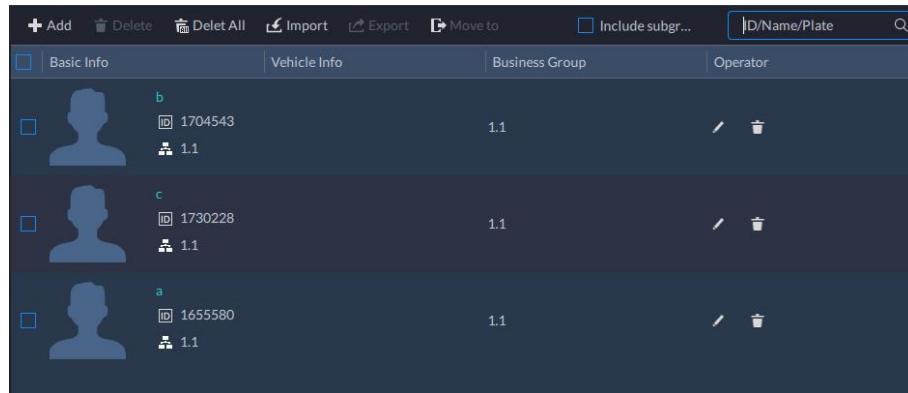
- Remove personnel

- Click to delete the selected personnel and his/her permissions according to the interface prompt.
- Select multiple personnel, click "Delete" at the top of the interface, and delete the selected personnel and their permissions according to the prompts on the interface.
- Click "Delete All" to delete all personnel and their permissions in the group.

- Search personnel

The personnel list displays the personnel under the selected personnel group. If you select "Include subgroup", it displays all the personnel information of the personnel group and its subordinate personnel groups. In the upper right corner of the interface, you can enter key information to support quick search and match personnel.

Figure 4-18 Search Personnel



4.3.1.2.2 Import Personnel

Prepare personnel information in advance to realize rapid batch addition of personnel.

Import personnel information includes name, face picture, ID, personnel group, gender, telephone number, E-mail, company, nickname, certificate information, etc.

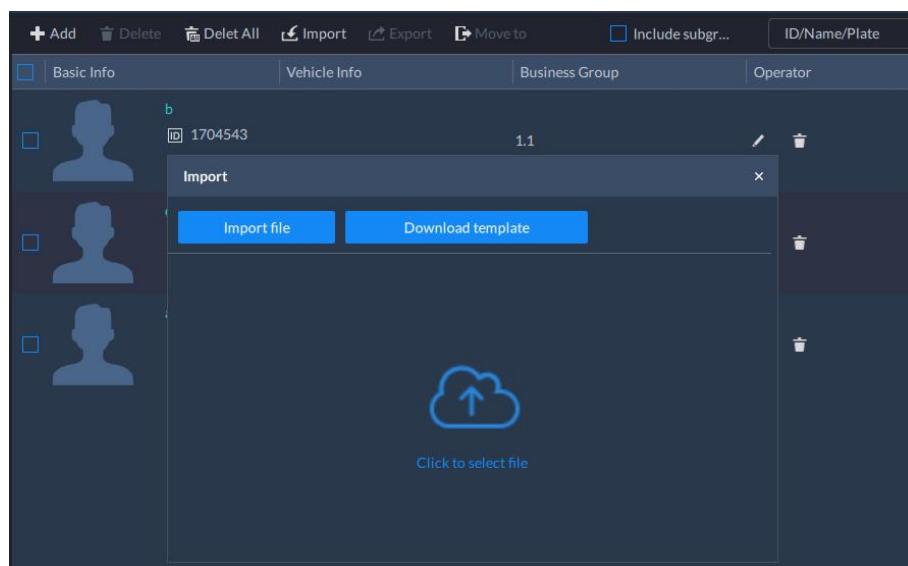


Before import, prepare the personnel information. The file type is zip compressed package, including the xlsx file containing the personnel information and face pictures (optional). The maximum number of personnel information is 5000, and the zip file is not more than 1 GB.

Operating Steps

- Step 1 Log in to the client, click on the "Home" interface, and select "Human&vehicle" in the "Application setting" area.
- Step 2 Click .
- Step 3 Click Import and select Import from file.

Figure 4-19 Import Personnel



- Step 4 Click "Import file" and select the zip compressed file of personnel information according to the interface prompt.



If there is no personnel information file, click "Download Template" and download the template according to the interface prompt to create personnel information data.

- Step 5 Click OK.

Import may occur under the following circumstances:

- If the import fails, support the excel table of failed downloads and check the reason for failure.
- Please read the prompt information for importing the template carefully to confirm that the imported content is accurate.
- The imported content cannot be read, and an error message is prompted.

Associative Operation

- Export Personnel

Backup personnel data for recovery in case of data destruction or for quick import of personnel information.

Select the organization on the left of the "Personnel List" and click "Export" to export all or part of the personnel according to the interface prompt.

- Import Personnel

In "Personnel List", click "Import> Import from file", click "Download template", and save the template file according to the prompts on the interface.

In "Personnel List", click "Import> Import from device".

4.3.1.2.3 Edit Personnel

Supports editing and adding information about the person other than ID, such as details and vehicle information.

Operating Steps

- Step 1 Log in to the client, click on the "Home" page, and select "Human&vehicles" in the "Application setting" area.
- Step 2 Click .
- Step 3 Click to modify the personnel information. For details, please refer to "[4.3.1.2.1 Add Individual Personnel](#)".

Associative Operation

Adjust the personnel group of the person. Select the person in the personnel list, click Move to, select the incoming personnel group, and click OK.

4.3.2 Vehicle Management

4.3.2.1 Add a Single Vehicle

Add vehicle support to bind personnel, open parking lot permission and add vehicles to the vehicle control group to control the vehicles.

Operating Steps

- Step 1 Log in to the client, click  on the "Home" page, and select "Human&vehicles" in the "Application setting" area..
- Step 2 Click .
- Step 3 Click Add.
- Step 4 If you need to bind the owner information, click "Owner Info " and then click "Select from list" to select the personnel.
The selected personnel is the person added to the "Personnel List".
- Step 5 After clicking "Vehicle Information ", input the license plate information, select the vehicle brand and body color.
- Step 6 Click OK.

Associative Operation

- Edit Vehicle
Supports modifying the body color and logo by clicking .
- Remove Vehicle
Supports the following two ways to delete:
 - Single deletion
Click  corresponding to the vehicle and delete the selected vehicle according to the interface prompts.
 - Batch delete
Select the vehicle, click "Delete" at the top of the interface, and delete all selected vehicles according to the interface prompt.

4.3.2.2 Batch add vehicles

Prepare vehicle information in advance to realize rapid batch addition of vehicles.

Preconditions

Prepare the vehicle information before import. The file type is.xlsx.

Operating Steps

Step 1 Log in to the client, click  on the "Home" page, and select "Human&vehicles" in the "Application setting" area.

Step 2 Click .

Step 3 Click Import.

Step 4 Click Import File and select the vehicle information file according to the interface prompt.



If there is no vehicle information file, click "Download Template" and download the template according to the interface prompt to create vehicle information data.

The system displays the import entry and results. The import may occur under the following circumstances:

- If the import fails, support the excel table of the failed download and check the reason for failure.
- The imported content cannot be read and an error message is prompted.

Associative Operation

- Export vehicle information

Backup vehicle data for recovery in case of data destruction or for quick import of vehicle information.

- Export all vehicle information

In the "Vehicle List" interface, click "Export" and export all vehicles according to the prompts.

- Export selected vehicle information

In the "Vehicle List" interface, select the vehicle and click "Export". Export the selected vehicle according to the prompts in the interface.

- Download the template

When you need to import vehicles to add vehicles in batches, download the template to edit vehicle information and prepare for the import of vehicles. In the "Vehicle List", click "Import", click "Download template", and save the template file according to the prompts on the interface.

4.4 Parking Lot Configuration

Set up parking lot and vehicle group information to realize functions such as entrance and exit identification, gate opening, parking space management, vehicle blacklist alarm, information query, etc. If the system is connected to the door machine (hereinafter referred to as "VTO"), when the entrance and exit identification of the vehicle fails, the door machine call center can be called to remotely verify and open the gate.

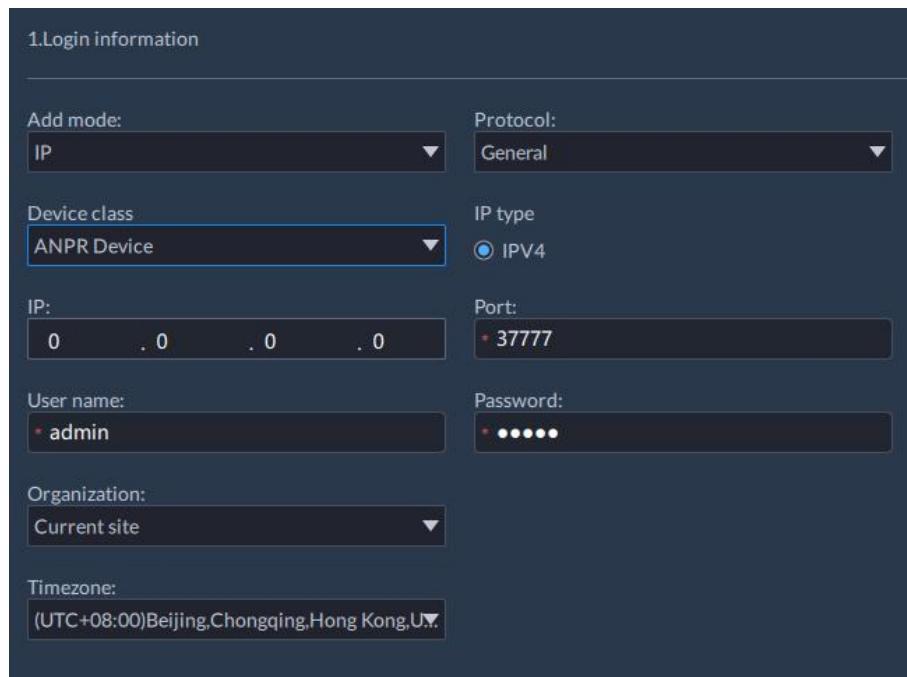
4.4.1 Preparation

- Confirm that the deployment of entrance and exit capture cameras, barriers and other equipment has been completed.

- The basic configuration of the platform has been completed. For details, please refer to Chapter 3 Basic Configuration. The following points should be noted during the configuration process:
 - In the Device Manager interface, add a ANPR device and select Device class as ANPR device.

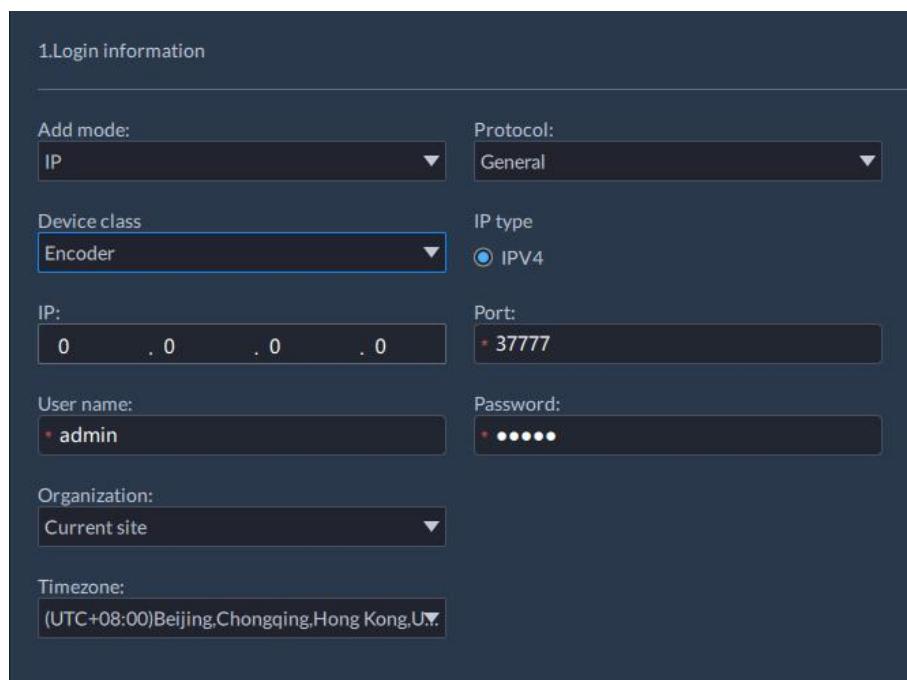
Select Device Type as Entrance/Exit License Plate Recognition Camera.

Figure 4-20 Add ANPR Device (1)



- Add the NVR in the "Device Manager" interface and select Device class as "Encoder".

Figure 4-21 Add NVR



In the "Device Manager" interface, change the "Channel capability set" of the NVR entrance and exit camera channel to "Entrance and exit license plate recognition". For details, please refer to ["3.2.2.5.2 Modify Device Information"](#).

4.4.2 Configuring Parking Lots

In general, a parking lot is regarded as a field area. The configuration of the field area includes the number of parking spaces in the field area, the information of the entrance and exit points, the release situation and other information, and the binding of the checkpoint equipment channel for vehicle identification.

4.4.2.1 Basic Information

Operating Steps

- Step 1 Log in to the client, click  on the "Home" interface, and in the "Application setting" area, select "Parking> Parking Configuration> Basic Parking Configuration".
- Step 2 Click the default root node "Current Site" and click "Add Parking Lot".
- Step 3 Set the basic information of the field area, and click "Next".

Table 4-2 Parameter Description

Parameter	Description
Name of site	Name the site to identify different sites.
Start parking statistics	<p>Configure the total number of parking spaces and available parking spaces in the parking area.</p> <ul style="list-style-type: none"> ● Total number of parking spaces: the total number of parking spaces in the site. ● Current Available Spaces: The number of available parking spaces in the parking area.

- Step 4 Click  or the Add Entrance/Exit Point button on the right side to add an entrance/exit point.
- Step 5 Enter the name of the entrance/exit point, such as East Gate and South Gate, and click OK.
- Step 6 Configure the entrance and exit, and click Next.

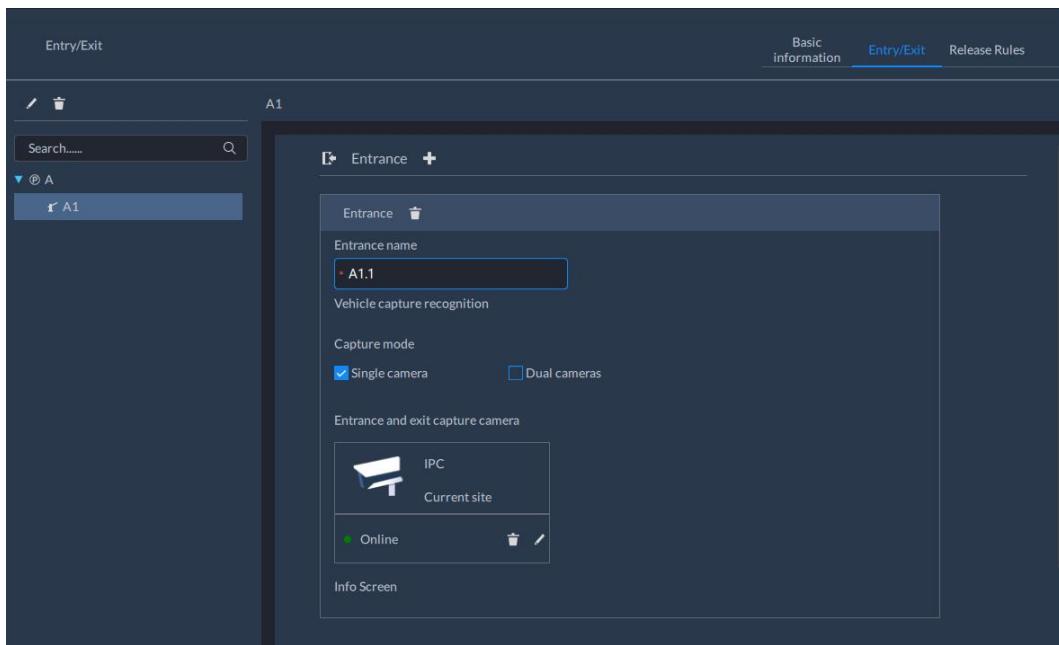


Multiple entrances and exits can be added at the entrance and exit points of the site. The maximum number of entrances and exits in all sites on the platform is 4.

1. If the point has an entrance, click the entrance , enter the entrance name, select the capture mode, and add the entrance/exit capture camera, visual intercom device (if any), and information display screen (if any).
 - Influenced by the entrance and exit conditions, when the single camera recognition rate does not meet the requirements, the main and auxiliary dual cameras are supported to improve the vehicle recognition rate.
 - In the dual-camera mode, it is necessary to set the time for dual-camera collaboration. During the setting time, the vehicle captured by the main camera and the auxiliary camera

is marked as the same vehicle. It is necessary to adjust reasonably according to the installation position and distance of the main and auxiliary cameras on site.

Figure 4-22 Add Entrance Information



2. If there is an exit at the point, click **+** on the exit, enter the name of the exit, select the capture mode, and add the entrance and exit capture camera, visual intercom device (if any) and information display screen (if any).

The configuration method is similar to the entrance, please refer to the above steps.

Step 7 Set the release rules and click Save and Exit.

1. Select the entrance release rules and configure parameters.

Table 4-3 Parameter Description

Parameter	Description
Allow registered vehicles to pass	<ul style="list-style-type: none"> ● Rules for the passage of registered vehicles. Click Add and select Configure by parking lot or configure by location. <ul style="list-style-type: none"> ■ According to the parking lot configuration: the added vehicle group will be bound to all entrance points under this parking area, and the vehicles in the vehicle group can enter the parking area from any entrance of this parking area. ■ Configure by point: bind vehicle groups to different entrance and exit points respectively. For example, vehicle group A is only bound to the east gate, but not to the south gate, so the vehicles in vehicle group A can only enter the field from the east gate. ● Passage is allowed when the remaining number of parking Spaces is

	<p>zero: after opening, vehicles are still allowed to enter the site even if there are no available parking Spaces.</p> <p>Click Enable this function  at the entry point.</p>
All vehicles are allowed to pass	<p>All vehicles are allowed to enter the site.</p> <ul style="list-style-type: none"> Allow blacklisted vehicles to pass: After opening, the vehicles in the blacklist can enter the field. Passage is allowed when the remaining number is zero: after opening, vehicles are still allowed to enter the site even if there are no available parking Spaces. <p>Click the entrance point  to enable this function.</p>
user-defined	<p>You can freely combine the release rules.</p> <ul style="list-style-type: none"> Please refer to the above content for the registration vehicle traffic rules and the relevant configuration that allows passage when the remaining space is zero. Allow all vehicles to pass: Select a preset time template or create a new time template, and all vehicles can enter the field within the set time. <p>For the operation of creating a time template, refer to "3.2.5 Adding Time Templates".</p> <ul style="list-style-type: none"> Remaining statistics: <p> INSTRUCTION</p> <p>You must enable the parking space statistics and select "Statistics on parking space usage based on the vehicles entering and exiting the entrance."</p> <ul style="list-style-type: none"> All vehicles are calculated for surplus: any vehicle entering the field reduces the number of available parking Spaces. Non-registered vehicle calculation of surplus: only the vehicles whose information is not registered to the platform will have fewer parking Spaces after entering the field. Customization: You can choose whether the vehicles in the added vehicle group need to be calculated for parking Spaces.



For related operations of the vehicle group, refer to "[4.4.3 Managing Vehicle Group](#)".

- Select the "Export" release rule and configure parameters.

The configuration method is similar to the entrance, see the previous step.

3. After clicking "Send license plate number to device ", add vehicle groups to both the whitelist and blacklist.

When the platform is offline, the device decides whether to allow the vehicle based on the list.

Associative Operation

-  Edit the field release rules.
-  Edit the number of parking Spaces in the field.
-  Edit the field area information.
-  Remove the field area.

4.4.2.2 Event Parameter

Configure events for the field area and receive parking related alarms.

- Step 1 Select "Parking lot" for event source type. For details, see "[4.1 Event Settings](#)".
- Step 2 Click  on the "Home" interface, and in the "Application setting" area, select "Parking> Parking Configuration> Event Parameter Configuration".
- Step 3 Select the parking lot, and the events that have been configured are displayed on the right.



Because the blacklist alarm does not require additional parameters to be configured, the event is not displayed on the interface.

- Step 4 Click on  to configure event details.

Table 4-4 Parameter Description

Event Type	Description
Parking Overtime	<ul style="list-style-type: none"> ● "Parking time limit": the unit is minutes. If the parking time exceeds the set value, it is judged as over-time parking. ● "Detection frequency": Select the frequency of detecting parking timeout. For example, if you select 5 minutes, the platform will check whether there is a parking timeout in the parking lot every 5 minutes, and trigger an alarm if there is one. ● "Vehicle type with timeout alarm": <ul style="list-style-type: none"> ■ "Allow all vehicles to pass through": All vehicles will trigger an alarm if they park for too long, but VIP vehicles are not included. If "including VIP vehicles" is enabled, VIP vehicles will also trigger an alarm if they park for too long.

	<ul style="list-style-type: none"> ■ "Unregistered vehicles and blacklisted vehicles": Vehicles whose information is not registered to the platform will trigger an alarm when they park for too long. ■ "Customization": If "unregistered vehicles" are enabled, the alarm will be triggered when a vehicle whose information is not registered to the platform stops for too long; if "registered vehicles" are enabled and vehicle groups are added, the alarm will be triggered when a vehicle in the vehicle group stops for too long. <p> INSTRUCTION</p> <p>"Unregistered vehicles" and "registered vehicles" can be opened at the same time.</p>
Pay attention to the absence of vehicle entry and exit records	<ul style="list-style-type: none"> ● "Time without entry and exit records": The unit is in days. If the time without entry or exit exceeds the set value, it is judged as no entry and exit records. ● "Statistical time point": Calculate the duration of no entry or exit from the set time every day. ● "Focus on entry and exit vehicle groups": Only calculate the duration of no entry or exit records for vehicles in the vehicle groups added.

4.4.3 Managing Vehicle Groups

Vehicles of the same nature are grouped together to quickly apply various parking lot services to multiple vehicles.

The system has configured three vehicle groups: general, blacklist and VIP by default. If you only need to use these three vehicle groups, you can add vehicles to the vehicle groups.

- Step 1 Log in to the client, click  on the "Home" interface, and in the "Application Configuration" area, select "Parking Lot> Vehicle Group".
- Step 2 Click  to add vehicle group.
- Step 3 Enter the name of the vehicle group, select the color of the vehicle group, and click Add.
- Step 4 Click the  corresponding to the vehicle group or double-click the vehicle group, then click "Select from Vehicle List" to select the vehicle you want to add.
- Step 5 Click OK.

5 Functional Modules

5.1 Monitoring Center

For the use scenario of security personnel on duty in the monitoring room, this application provides a multi-dimensional integrated real-time monitoring solution that includes equipment, maps, and events, enabling comprehensive surveillance information. It supports real-time video preview, license plate recognition, target detection, and other devices, allowing users to view electronic maps, capture images, event information, and more. It also supports playback of recordings and video wall displays.

5.1.1 Monitoring Interface

This section describes the functions of each module in the monitoring interface. Before previewing and playing back the video, please familiarize yourself with the interface.

Figure 5-1 Live Preview Interface



Table 5-1 Live Preview Interface Description

Number	Name	Description
1	Resource	<p>The resource list includes a device list, a browser list, and a main map list. The device list displays the devices added to the platform according to organizational relationships, the browser list displays the saved web addresses according to folder relationships, and the main map list displays the added maps. Supported operations:</p> <ul style="list-style-type: none"> Double-click an organization, device, or channel in the device list, or drag them to a window, and the window displays a live view.

		<ul style="list-style-type: none"> For the first use, double-click "Browser" or drag "Browser" to the window to open a brand-new page in the window, then enter a URL to view the webpage. If you have clicked  to favorite a webpage, double-click the webpage in the browser list or drag the webpage to the window, and the window will display the webpage information. To open a new webpage, click . <p> INSTRUCTION</p> <p>If the platform cannot connect to the network of the accessed website, the webpage will not open.</p> <ul style="list-style-type: none"> Double-click the map in the main map list, and the window displays the map and the device on the map. It supports previewing the real-time footage of the device on the map, and supports canceling the alarm when an alarm occurs. Supports entering keywords in the <input type="text" value="搜索....."/> for query. Click  to enter the favorites list, which supports adding, deleting, renaming or patrolling favorites.
2	Window	When live previewing and playing back recordings, both the video and operation controls are displayed.
3	Tabs	Live view and playback tabs, support for switching interfaces.
4	Save	Record the real-time video window segmentation and playback status, save them as a preview scheme for quick subsequent invocation. For detailed instructions, refer to " 5.1.2.2 View ".
5	Close all	Close all live view windows.
6	Screen split selection	<ul style="list-style-type: none"> Set the number of Windows, and support dividing them into 1, 4, 6, 8, 9, 13, 16, 20, 25, 36, 64 and custom. If the number of channels previewed in real-time exceeds the set number of screen splits, click    at the top of the interface to page through and view. Custom window number operation: Select " > ", select the number of Windows, set the number of rows and columns, click the dotted line as needed to add a dividing line, and complete the window splitting. <p>If the split is wrong or the split is adjusted, click the existing solid line to delete the split line.</p>

7	Full Screen	Click  to fill the window with the full screen. To exit the full screen display press [Esc].
8	Event panel switch	This feature is supported only when previewing. Open or close the event panel.
9	Event panel	<p>This feature is supported only when previewing. It displays the event information reported by the channel being previewed.</p> <p>The supported operations are as follows:</p> <ul style="list-style-type: none"> ● Supported events include face detection/recognition event, target detection event, plate recognition event, entrance ANPR event, and access control event. Click the corresponding TAB to display only the corresponding event. ● Click to  clear the event information displayed in the event display area. ● Click to  return to the top and quickly view the latest events.
10	View	The system supports displaying a view list with a three-level directory, where the first level is the root node, the second level is the grouping, and the third level is the saved views. A view records the real-time video window segmentation and window playback status, which is saved as a preview scheme for quick subsequent invocation. The root node and grouping nodes support video tour, with tour times selectable as 10s, 30s, 1min, 2min, 5min, 10min, or customizable (5s to 120min). A maximum of 100 views can be created. For detailed information, see " 5.1.2.2 View ".
11	PTZ	If the device supports the PTZ, you can control the PTZ on the platform. For details about the PTZ, see " 5.1.2.4 Set up the PTZ ".

5.1.2 Preview

To view live video.

Before preview, please familiarize yourself with the preview interface. For details, see [5.1.1 Monitoring Interface](#).

5.1.2.1 Live Preview

Open the preview to view the real-time picture and understand the operations supported during the preview.



INSTRUCTION

This chapter only describes how to view live video. For more details about map preview, see "[5.1.4 Map Application](#)".

Step 1 Log in to the client, on the "Home" page, select " Monitoring Center".

Step 2 Click .

Step 3 Click the Live Preview TAB.

Step 4 View live video.

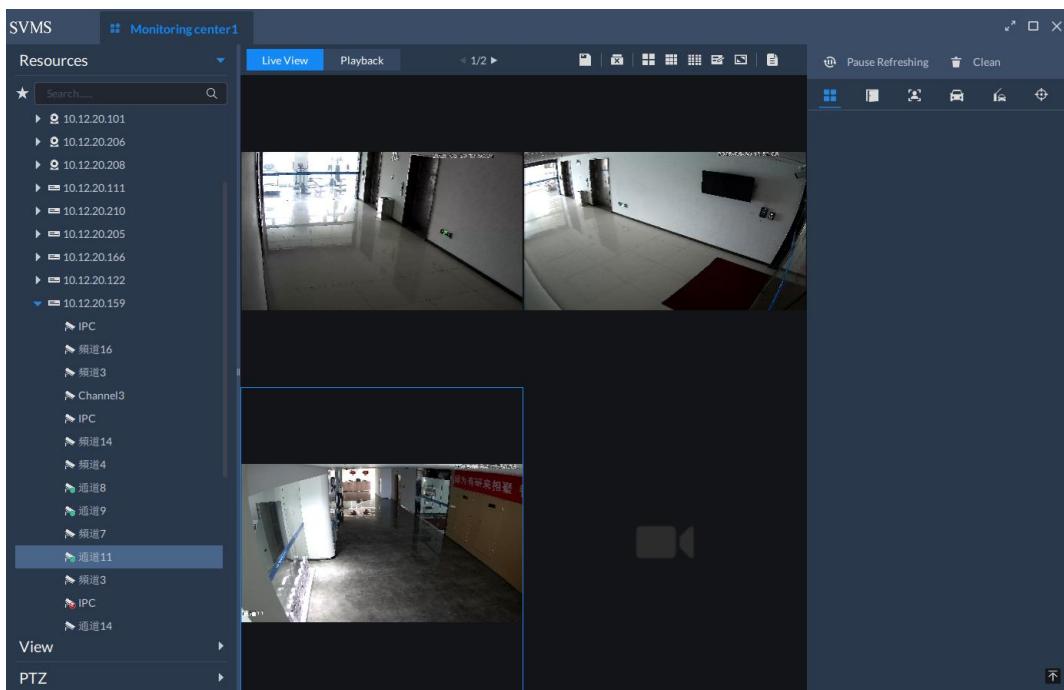
Supports previewing through the following methods:

- Select a channel, device, or organization from the device list and double-click or drag it to the window.
- Select the preview window on the right side of the interface. In the device list, right-click the device or organization and select "Tours" to set the duration. The system will play all the video images of the channels under the selected window in a loop, and the duration of each playback is set.



- If the number of channels previewed in real-time exceeds the set number of screen splits, click    at the top of the interface to page through and view.
- If tour is already in progress, it is required to turn off tour before live preview.

Figure 5-2 Live Preview of the Preview Interface



Step 5 Operate live preview.

- Enable intelligent capture overlay display.

If you preview the face detection, face recognition, entrance and exit, and target detection camera, the snapshot picture will be displayed in the upper right corner of the preview window. If the picture is not updated, it will be displayed for a maximum of 5s by default, and will not be displayed after 5s.

Move the mouse to the preview window and select the target type to display the overlay, such as .

- Move the mouse to the preview window, the window displays the encoding format, stream information, quick operation, etc.

Figure 5-3 Preview Window

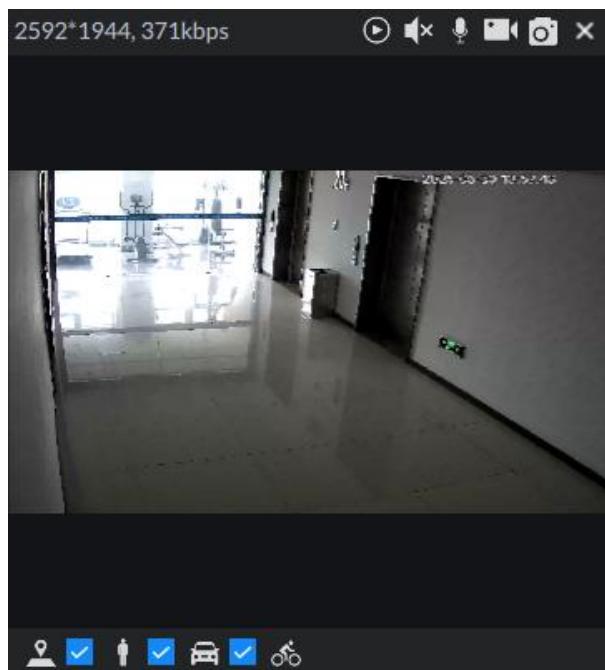


Table 5-2 Quick Operation Instructions

Icon	Function	Description
	Instant Playback	Turn on or off instant playback. The playback time can be set in "Local Configuration > Video", and detailed instructions can be found in " 7.3.2 Video Parameters Settings ". Instant playback requires the existence of device recordings.
	Audio	Turn the camera's audio on or off.
	Talk	Turn on or off the intercom function of the corresponding device.
	Local Record	Click this icon to start recording audio and video in the current video window; click this icon again to stop recording and save it to the PC local. It is saved by default in the client installation path "..\video". For details on how to change the save path, please refer to " 7.3.4 File Save Settings ".
	Capture	Save the image in the current preview window as an image file (one at a time) by default in the client installation path "..\capture". For details on how to change the save path, see " 7.3.4 File Save Settings ".

	Close	Click the icon to close the preview window.
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- Right-click the window that is being live previewed and preview the operation.



The menu displayed by right-clicking on different devices is different. Please refer to the interface display.

Figure 5-4 Right-Click Menu

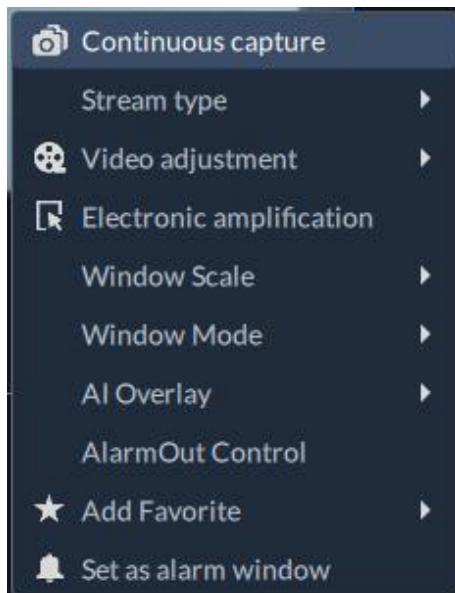


Table 5-3 Right-Click Menu Description

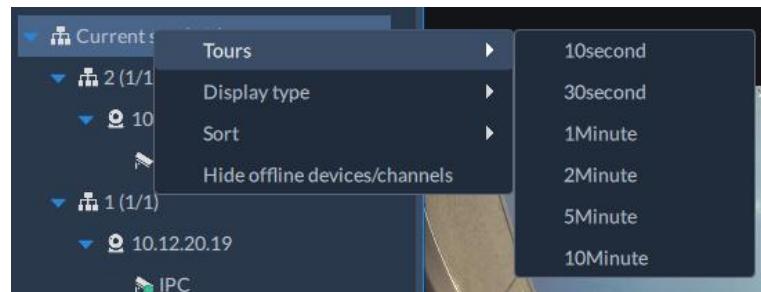
Parameter	Description
Continuous capture	When live previewing, multiple images are captured at the set time interval and saved to the local disk in the form of images. For details on how to modify the time interval and number of screenshots, please refer to " 7.3.2 Video Parameters Settings ".
Stream type	In general, the bandwidth occupied by the three types of streams is as follows: main stream > sub stream 1 > sub stream 2. The smaller the bandwidth occupied by the stream, the smoother the playback.
Video adjustment	Adjust the brightness, contrast, saturation and hue to optimize the video image effect.
Electronic amplification	After clicking, the mouse box selects the area to be enlarged, or the cursor moves to the preview window and rolls the wheel to enlarge the preview screen. Right-click and click "Electronic zoom" to exit the zoom.

Window Scale	Adjust the display ratio of the video window, such as full screen, original ratio, 4:3, 16:9, etc.
Window Mode	Divide a window into 2 (1+1 mode), 4 (1+3 mode) or 6 (1+5 mode) blocks, One block is used to play a preview video, and the other blocks are used to zoom in on local images. If the device supports target tracking, you can enable this function in split mode to detect the target, the local image screen will continue to track the target until it disappears.
AI Overlay	Activate the intelligent rule lines and target boxes outside of smart motion detection. If the device has already enabled smart detection, and the platform client has activated "AI Overlay," the target box or intelligent rule line will be displayed in real-time preview. This function only takes effect when the configured channel is active. The system defaults not to display intelligent rules and target boxes. The settings apply to both video playback and real-time preview.
AlarmOut Control	Control the on/off of the alarm output channel.
Add Favorites	Add this channel or all channels to your favorites.
Set as an alarm window	When the "Local Configuration" sets up alarm linkage and opens the linked video in the preview window, the linked video will be displayed on the window set as the alarm output. If multiple alarms occur, open the latest linked video. If the number of device alarm windows is less than the number of linked videos, open the first alarm-triggered linked video. After setting, the window border will be red.

- Tour Preview

In the device list of the "Monitoring center" interface, right-click on the device, organization, view or folder, and select "Tour" to set the duration. The system will play the video of all online channels under the device in a loop, and the duration of the video playback is the selected duration.

Figure 5-5 Enter the View Tour Interface



Additional tour operations are as follows:

- Check the tour time

The remaining preview duration of the current screen and current round is displayed at the upper right of the interface.

- Suspend tours

Click in the upper right corner of the interface.

- Withdraw from the tour preview

Click in the upper right corner of the interface.

- View the area of interest

When previewing in real time, you can divide a window into 4 or 6 blocks. One block is used to play the preview video, and the other blocks are used to zoom in on the local picture.

Right-click the window that is being previewed in real time and select "Window Mode", such as 1+5 mode.



To cancel the split, right-click and select "Window Mode" to "Normal".

Figure 5-6 Window Mode

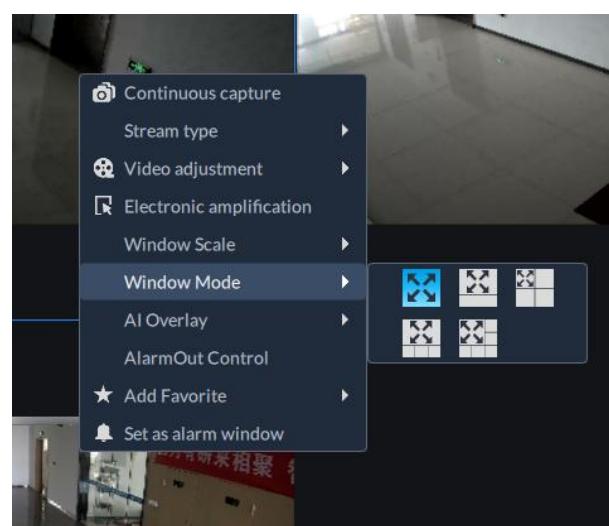
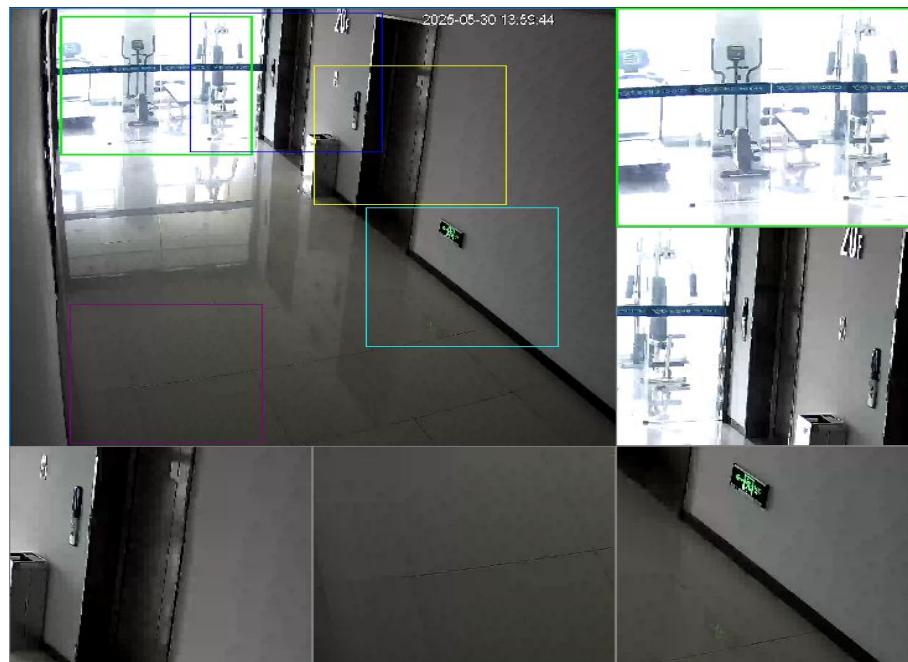


Figure 5-7 1+5 pattern

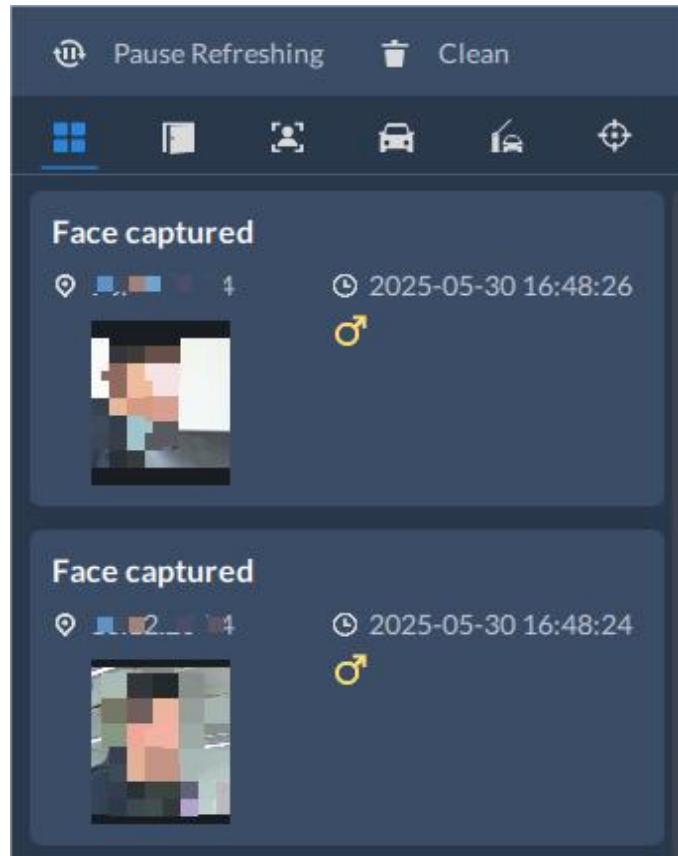


- View real-time events

Click to open the event panel which displays real-time alarm events for the channels being previewed. The supported operations are as follows:

- Click on the event type at the top of the event panel to view only the corresponding event.
- Click event record to view the captured picture of the event, and support playback of video and other operations. Different events support different operations, please refer to the display on the interface.
- Switch between refresh and pause refresh. The refresh status icon is displayed as ; the pause refresh status icon is displayed as . Click the icon to switch between status.
- Click to clear the event information displayed in the event display area.
- Go back to view the latest event. After viewing the event, click to view latest event.

Figure 5-8 View Real-Time Events



5.1.2.2 View

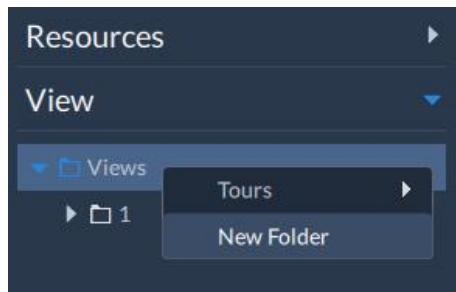
Record the real-time video window segmentation and playback status, save it as a preview plan for quick access. The directory structure supports three levels: the first level is the root node, the second level is the group, and the third level is the saved view. After creation, support patrol preview at root nodes and group nodes. Patrol duration can be selected from 10s, 30s, 1 min, 2 min, 5 min, 10 min, or custom (5s to 120 min). A maximum of 100 views can be created.

5.1.2.2.1 Create View

The generated views are grouped into different groups for easy management and invocation. The grouping includes three levels: the first level is the root node, the second level is the group, and the third level is the view.

- Step 1 Log in to the client, on the "Home" page, select "grid icon > Monitoring Center".
- Step 2 Click .
- Step 3 Create a view group.
 1. Click the View TAB.
 2. Right-click "Views" and select "New Folder".

Figure 5-9 new folder



3. Enter the folder name and click OK.

Step 4 Create a view.

1. Customize the window split mode and preview the channel in the window. Click .
2. Enter the name, select the view group, and click OK.

Create a new view under the corresponding view group.

5.1.2.2 Preview View

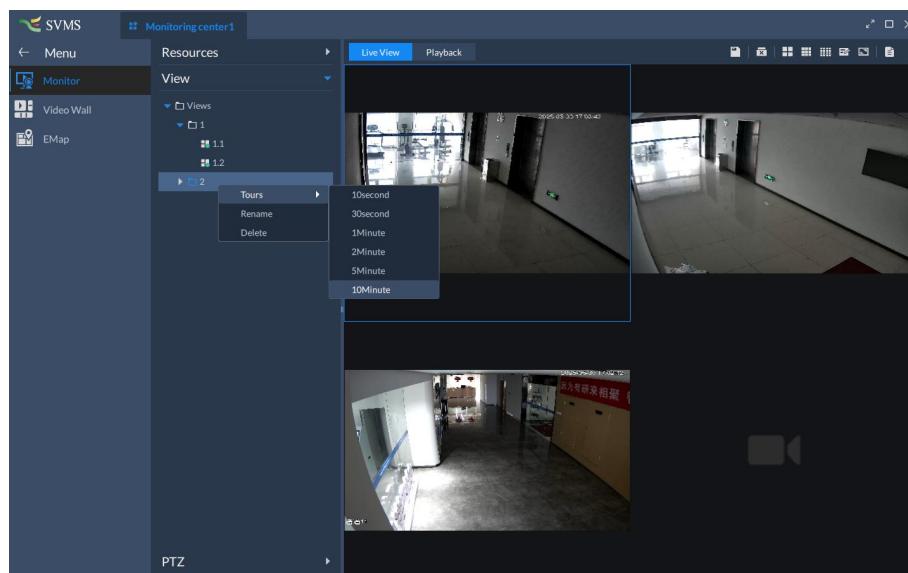
- Live Preview

Select the view in the view list of the "Monitor center" interface, double-click or drag it to the video window, and the system will start previewing.

- Tour

On the client's "Monitoring center" screen, right-click on the view group or root node and select "Tour" and set the duration.

Figure 5-10 View Tour



Additional tour operations are as follows:

- Check the tour time

The current screen and the remaining preview duration of the current round are displayed in the upper

right corner of the interface.

- Suspend tour

Click in the upper right  corner of the interface.

- Withdraw from the tour

Click in the upper right  corner of the interface.

5.1.2.3 Favorites Folder

Add frequently used channels to the favorites for quick search and call.

5.1.2.3.1 Create a Favorites folder

Step 1 Log in to the client, on the "Home" page, select " Monitoring Center".

Step 2 Click .

Step 3 Create a favorites folder.

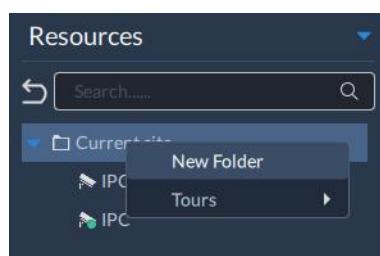
1. Click 

Figure 5-11 Add to Favorites



2. Right-click the root node or the folder you have created, and select "New Folder".

Figure 5-12 New Folder



3. Enter the folder name and click OK.

Create a lower-level folder under the selected root node or folder.

4. Click 

The system returns to the device list.

Step 4 Save channel to favorites.

- In the device list, right-click the channel and select "Add to Favorites" to add it to the favorites according to the system prompt.
- On the "Monitor" screen, right-click on the window you are previewing in real time and select

"Add to Favorites". Add it to your favorites according to the system prompt.

5.1.2.3.2 Preview Your Favorites

- Live preview

On the client's "Monitor" screen,  click to open the favorites list, select a favorite or channel, double-click or drag it to the video window, and the system begins to preview.

- Tour

On the client's "Monitoring" interface , click to open the folder list, right-click on the root node or folder, and select "Tours" and duration. The system plays all channels under the root node or folder in a loop.

Other operations during the tour:

- Check the tour time

The current screen and the remaining preview duration of the current round are displayed at the bottom of the interface.

- Suspend tour

Click below the interface .

- Withdraw from the tour

Click below the interface .

5.1.2.4 Set up the PTZ

If the access device has a PTZ function, it supports controlling the PTZ through the platform.

5.1.2.4.1 Set Up Preset Points

The camera can store the horizontal Angle, tilt Angle and other position parameters of the current state of the PTZ into the device, and can quickly call these parameters when needed and adjust the PTZ and camera to this position.

Operating Steps

Step 1 Log in to the client. On the "Home" screen , select "> Monitoring Center> Monitor".

Step 2 Click on "Resources" and select a video channel with a PTZ function.

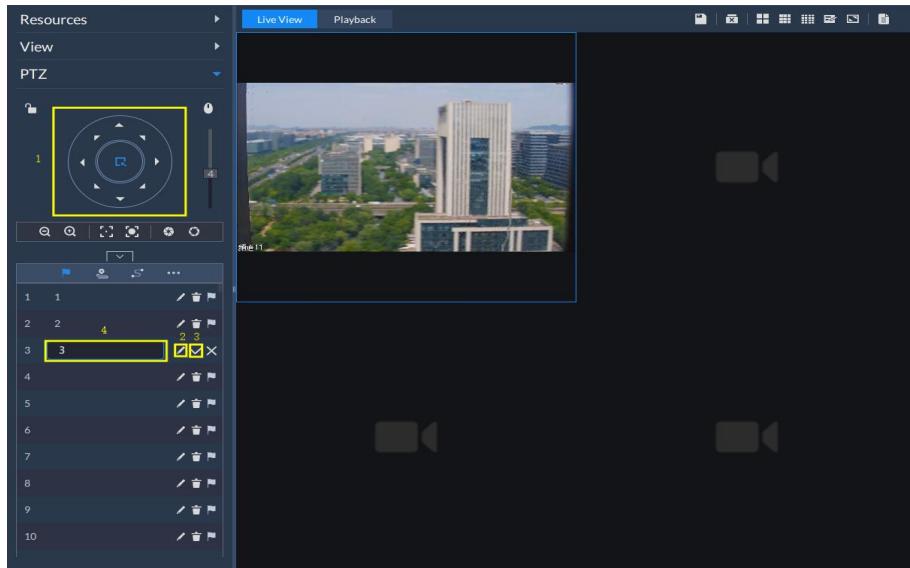
Step 3 Click on the "PTZ" and then click .

Step 4 Click .

Step 5 Add preset points.

Operate the PTZ direction keys to turn the PTZ to the required position. Click , enter the "name", and click .

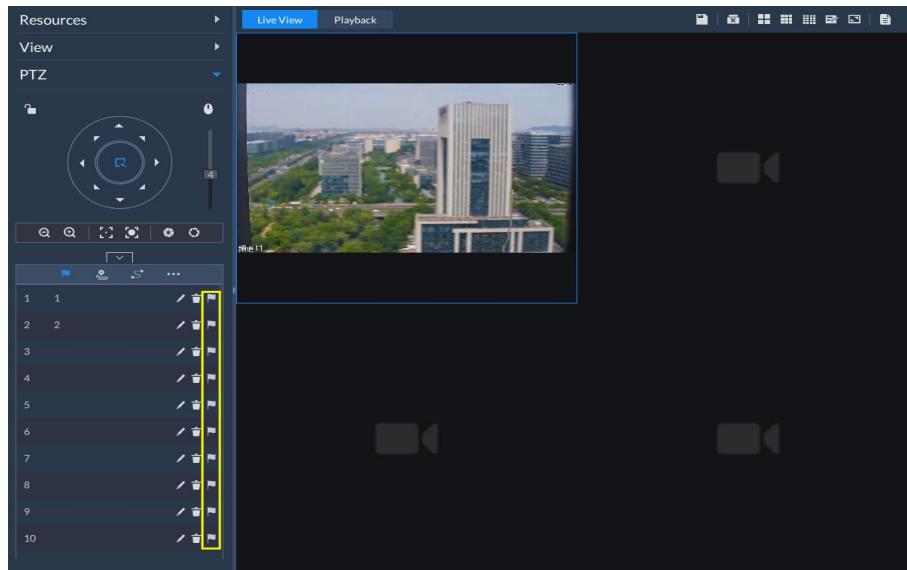
Figure 5-13 Add Preset Points



Associative Operation

Call the preset point: Click the  in the preset point list and the camera quickly turns to the preset position.

Figure 5-14 Call the Preset Point



5.1.2.4.2 Set Preset Point Patrol

The preset points are arranged into the automatic cruising in the order required, so that the camera can automatically move back and forth continuously according to the preset points in the set order.

Prerequisite

At least 2 preset points are required. For details on how to add preset points, see "[5.1.2.4.1 Set up Preset Points](#)".

Operating Steps

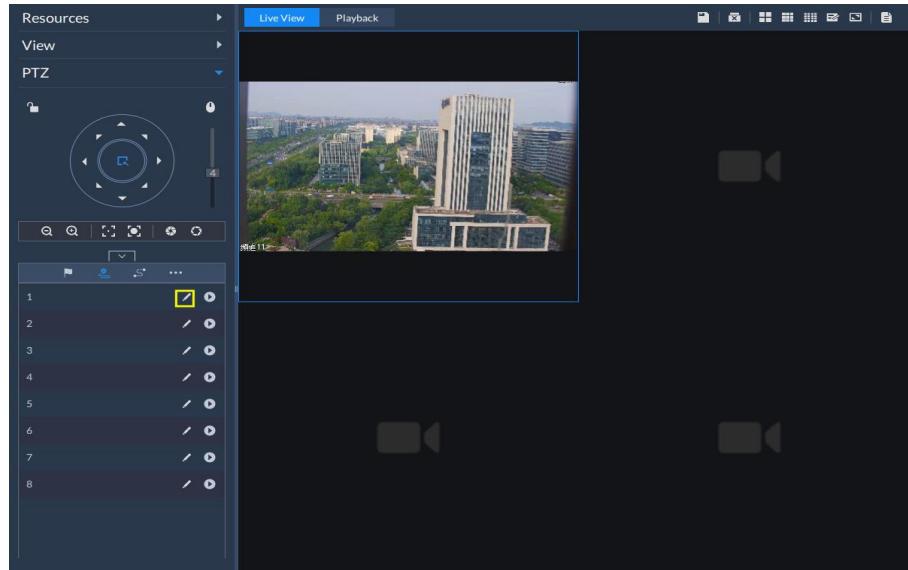
Step 1 Click on Resources and select a video channel with a PTZ function.

Step 2 Click on the "PTZ" and then click .

Step 3 Click .

Step 4 Click .

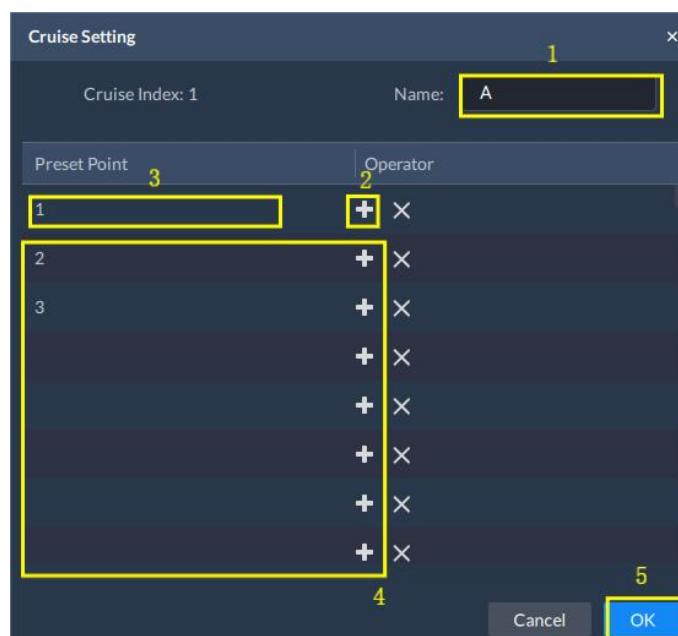
Figure 5-15 Add Preset Points to the Patrol



Step 5 Add preset point.

1. Enter the "name".
2. Place the mouse under the "Operator" column and click .
3. Select preset points from the drop-down box of preset points on the left.
4. Repeat 2 and 3, adding multiple preset points.
5. Click OK.

Figure 5-16 Add Preset Point



Associative Operation

Start the patrol: Click the  after the preset point patrol list, and the camera will cruise between the preset points.

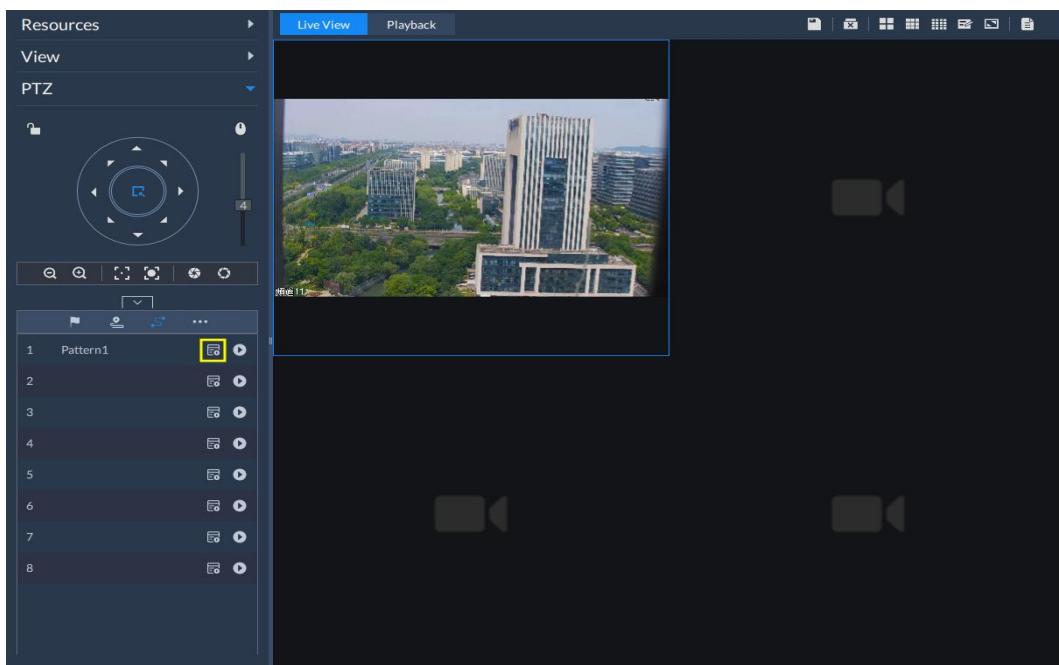
5.1.2.4.3 Trajectory Setup

The user's manual operation of the PTZ and the operation trajectory of the camera's zoom in and out are continuously recorded. As the starting point of the recording, the camera automatically moves according to the set operation trajectory.

Operating Steps

- Step 1 Click on Resources and select a video channel with a PTZ function.
- Step 2 Click on the "PTZ" and then click .
- Step 3 Click .
- Step 4 Click .

Figure 5-17 Add Trajectory



- Step 5 Operate the PTZ direction keys, focus, and zoom functions to complete camera movement.
- Step 6 Click .

Associative Operation

Start the trajectory tracking: Click the  after the trajectory list, and the camera will automatically move according to the set running trajectory.

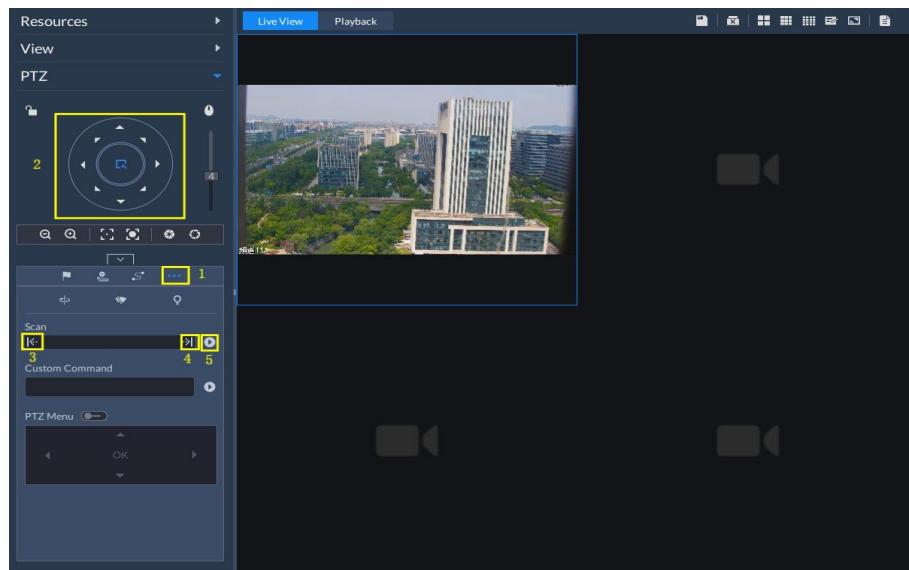
5.1.2.4.4 Horizontal Line Scanning Setup

The camera scans back and forth at a certain speed over a certain range in the horizontal direction.

Operating Steps

- Step 1 Click on "Resources" and select a video channel with a PTZ function.
- Step 2 Click on the "PTZ" and then click .
- Step 3 Click .
- Step 4 Operate the PTZ direction key to turn the camera to the left to a certain position, click  to set the left boundary.
- Step 5 Continue to rotate the PTZ, turn to a certain position to the right, click  to set the right boundary.
- Step 6 Click  to start the line scanning, and the PTZ rotates back and forth between the two boundaries.

Figure 5-18 Start Line Scanning



Associative Operation

Start line scanning: Click , and the camera scans back and forth in the set horizontal direction.

5.1.2.4.5 Control the Horizontal Rotation

In the "Live Preview" interface of the client, preview the window of the channel with the pan-tilt function.

Click , and click  to rotate the camera PTZ at a certain speed. Click  to stop the horizontal rotation of the camera.

5.1.2.4.6 Control the Wipers

Control the wiper switch of the external device.

In the "Live Preview" interface of the client, preview the window of the channel with the pan-tilt function.

Click , and click  again to open the wiper. After opening the wiper, click  to close the wiper.

5.1.2.4.7 Control the Lights

Control the light switch of the external device.

In the "Live Preview" interface on the client, preview the window of the channel with the PTZ function.

Click  , then click  to turn on the light

Click  to turn the light off.

5.1.2.4.8 Set Custom Commands



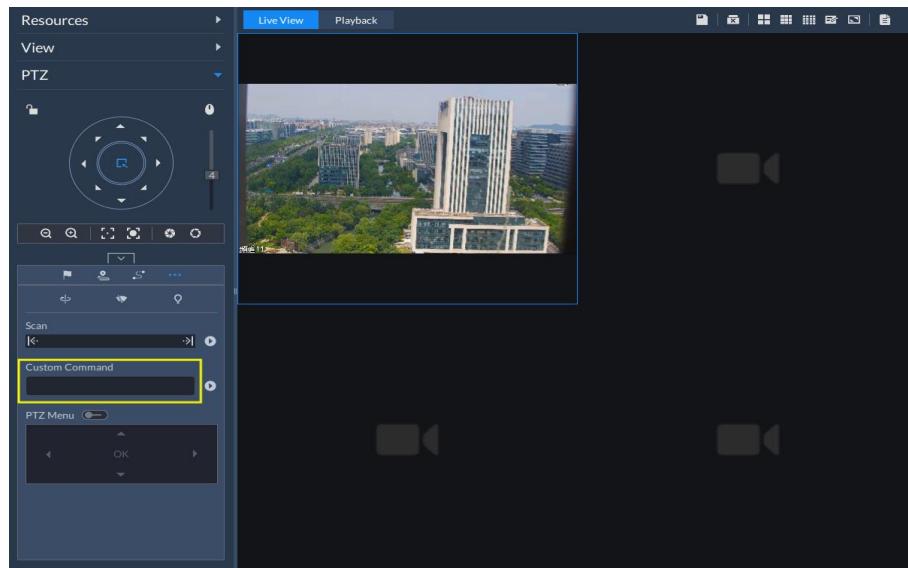
Custom commands vary for different devices. Please contact the corresponding manufacturer for more information.

Step 1 Click on Resources and select a video channel with a PTZ function.

Step 2 Click on the "PTZ" and then click .

Step 3 Enter the command in the Custom Command field.

Figure 5-19 Custom Commands



Step 4 Click  to display the function corresponding to the custom command.

5.1.2.4.9 PTZ Menu

Step 1 Click on Resources and select a video channel with a PTZ function.

Step 2 Click on the "PTZ" and  then click.

Step 3 Click .

Step 4 Click  to open the PTZ menu.

Step 5 Use the direction keys to enter the menu configuration.

Figure 5-20 Enter Menu Configuration

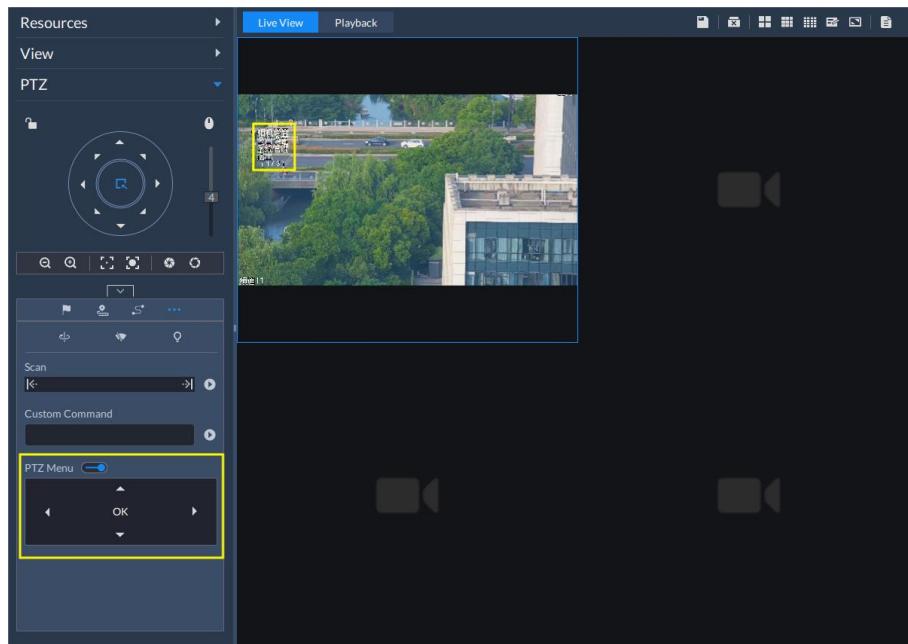


Table 5-4 PTZ Menu Interface Description

Parameter	Description
	Up and down keys. Up and down keys can be used to select the configuration item pointed by the cursor.
	Left and right keys, when the cursor points to the configuration item, you can set the configuration item by left and right keys.
	Click to open the PTZ menu function, and the main menu will be displayed on the monitor screen.
	Click to close the PTZ menu function.
OK	<p>The button is determined to include the following functions:</p> <ul style="list-style-type: none"> • If the configuration item in the main menu has a submenu, click "OK" to enter the submenu. • Move the cursor to "Return" and click "OK" to return to the previous level of the menu. • Move the cursor to the "Quit" item and click "OK" to exit the menu.
Camera Settings	<p>Move the cursor to "Camera Settings" and click "OK" to enter the submenu of "Camera Settings".</p> <p>You can set camera parameters, including image, exposure, backlight, white</p>

	balance, day and night mode, zoom, focus, fog penetration, restore default, etc.
PTZ Settings	<p>Move the cursor to "System Management" and click "OK" to enter the submenu interface of "System Management".</p> <p>You can set the camera's analog PTZ, restore the camera's factory Settings, and view the software version and PTZ version of the camera.</p>
System Management	<p>Move the cursor to "System Management" and click "OK" to enter the submenu interface of "System Management".</p> <p>You can set the camera's analog PTZ, restore the camera's factory Settings, and view the software version and PTZ version of the camera.</p>
Quit	Move the cursor to the "Quit" item and click "OK" to exit the PTZ menu.
Return	Move the cursor to "Return" and click "OK" to return to the previous level of the menu.

5.1.3 Video Playback

If the platform or device has recorded and stored video, the platform supports searching for playback video.

5.1.3.1 Video Playback Interface

Figure 5-21 Video Playback Interface

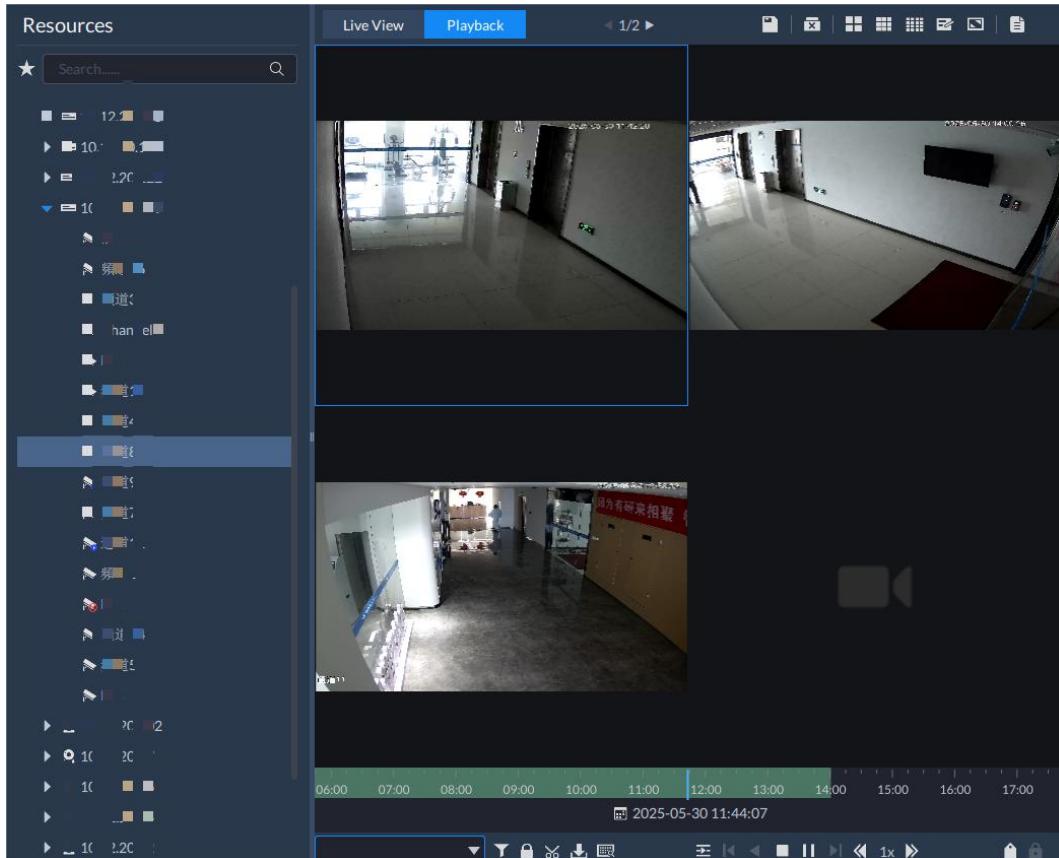


Table 5-5 Video Playback Interface Description

Icon	Function	Description
	Record type filter	Select the type of video to display. The video types include timed video (green), alarm video (red), and motion inspection video (yellow).
	Lock	<p>Lock the video recorded in a certain period of time on the specified channel. When the storage disk is full, the locked video will not be overwritten. For details, please refer to "5.1.3.3 Locked Video".</p> <p> INSTRUCTION</p> <p>Files that are being written to or overwritten cannot be locked.</p>
	Clip	Cut and download a video for a certain period of time. For details, see " 5.1.3.6 Cut Video ".
	Download	Click and jump to the download interface. For more details on video download, see " 7.1 Download Recordings ".
	Start Smart Search	The video frame is dynamically detected and analyzed to return only the video frames with dynamic images in the detection area.
	Sync Playback	Different video playback Windows play synchronously. For example, if you are playing videos from three channels, select channel 1, drag the timeline to a certain time, and then click this icon, channel 123 will play the video from that time.
	Stop/Pause	Stop/pause playback of the video.
	Play/Reverse Playback	Play video in reverse.
	Video Play Control	Single frame rollback/single frame playback.
	Play Speed	Accelerate / slow down playback, up to 64 times faster / slower.
	Time Axis	Click to select the date of the video to view. The timeline displays the time period of the video. When playing back the video, drag the time progress bar to replay the corresponding

		time point. When the mouse is over the time progress bar, the system displays a thumbnail of the video at that time, making it easy to determine if it is the video you need to view.
	Tag Records	Open the Tag Record panel to view the tag record.
	Lock Record	Open the Lock Record panel and view the lock record.

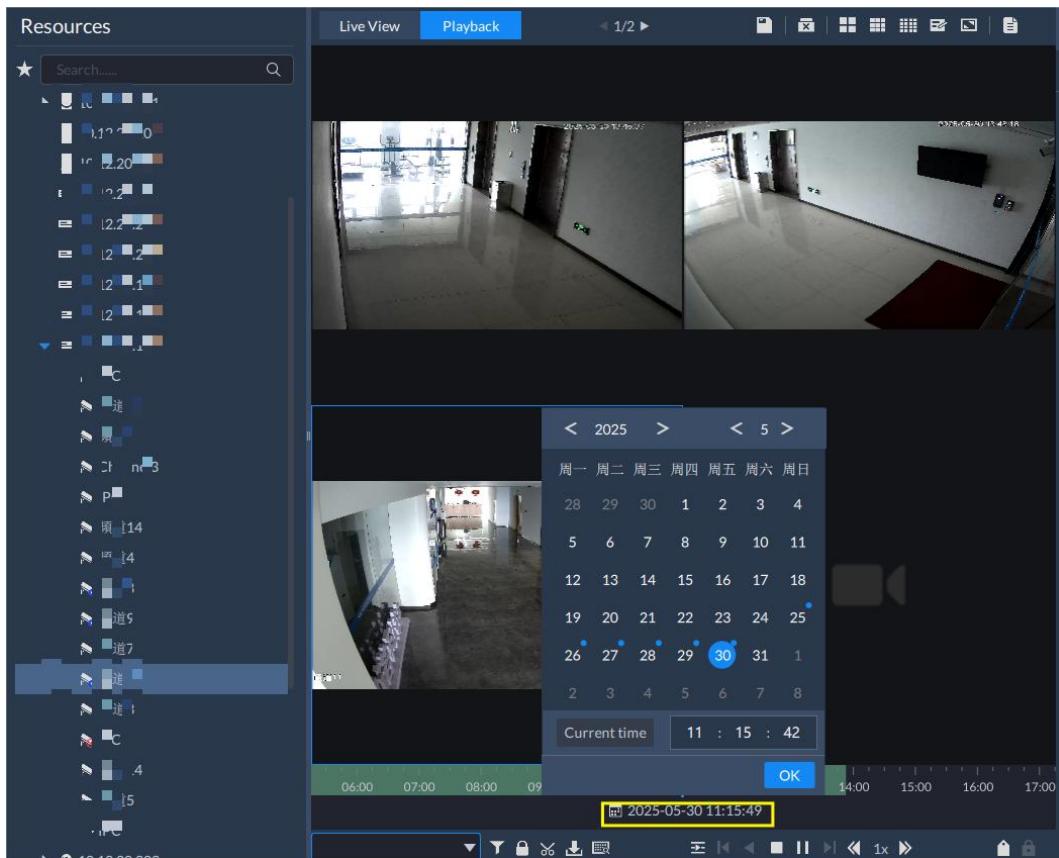
5.1.3.2 Playback Video

- Step 1 Log in to the client, on the "Home" screen, select " > Monitoring Center".
- Step 2 Click .
- Step 3 Click the "Playback" TAB.
- Step 4 Select a channel, device, or organization from the device list and double-click or drag it to the window.
- Step 5 Select the video storage location and click  to select date.
The system displays the query results.



When selecting a date, a blue dot indicates that there is a video file under that date.

Figure 5-22 Video Query Results



- Step 6 Select a video window with a video recording, click  to play the video.

Step 7 Operation.

- Move the mouse to the window, and the window displays the shortcut operation.

Figure 5-23 Shortcut Operation at the Window

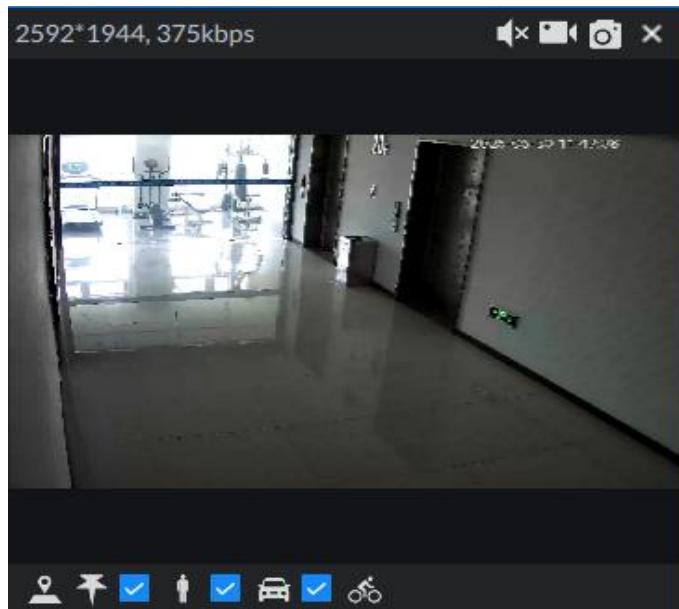


Table 5-6 Shortcut Operations

Icon	Function	Description
	Local Record	Click this icon to start recording audio and video in the current video window; click this icon again to stop recording and save it to the PC local. It is saved by default in the client installation path "..\video". For details on how to change the save path, please refer to " 7.3.4 File Save Settings ".
	Capture	Capture the image in the current video window as an image file (one at a time) by default in the client installation path "..\capture". For details on how to change the save path, see " 7.3.4 File Save Settings ".
	Close	Click the icon to close the video.
	Map location	If the device has already been marked on the map, open the map in a new window to display the map location information.
	Tag records	Tag the videos of interest for easy subsequent search. For details, see " 5.1.3.4 Tagged Videos ".

- Right-click the window in which the video is being played back to display the right-click menu.

The menu displayed by right-clicking on different devices is different. Please refer to the interface display.

Figure 5-24 Right-click Menu

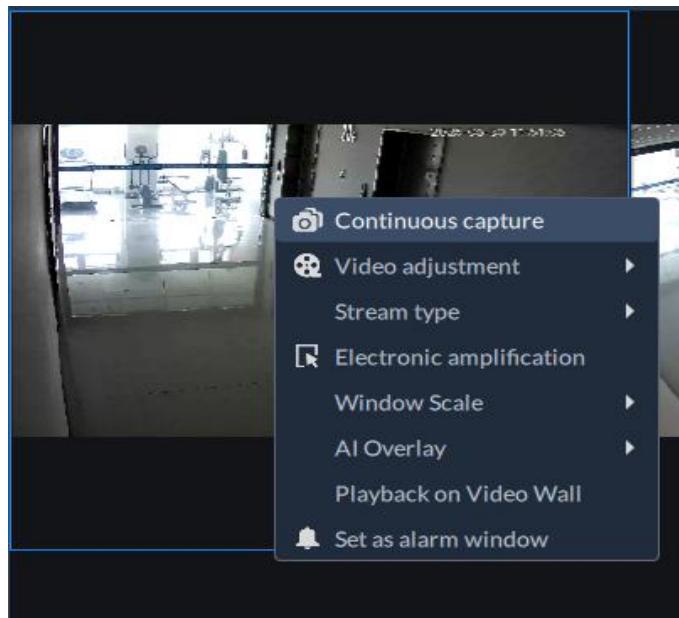


Table 5-7 Right-click Menu Description

Parameter	Description
Continuous capture	When the video is played back, multiple images are captured at the set time interval and saved to the local area in the form of pictures. For details on how to modify the capture time interval and number, please refer to " 7.3.2 Video Parameters Settings ".
Video adjustment	Adjust the brightness, contrast, saturation and tone of the video picture to make the video picture effect optimal.
Stream type	Switch the playback bitstream type. In general, the bandwidth occupied by the three bitstreams is main bitstream > auxiliary bitstream 1 > auxiliary bitstream 2. The smaller the bandwidth occupied by the bitstream, the smoother the playback will be.
Electronic amplification	After clicking, the mouse box selects the area to be enlarged, or the cursor moves to the preview window and rolls the wheel to enlarge the preview screen. Right-click and click "Electronic zoom" to exit the zoom.
Window Scale	Adjust the display ratio of the video window, such as full screen, original ratio, 4:3, 16:9, etc.
AI Overlay	Activate the intelligent rule lines and target boxes outside of smart motion detection. If the device has already enabled smart detection, and the platform

	client has enabled "AI overlay," the target box or intelligent rule lines will be displayed in real-time preview. This function only takes effect when the configured channel is active. The system defaults not to display intelligent rules and target boxes. The settings apply to both video playback and real-time preview.
Set as an alarm window	When the "Local Configuration" sets up alarm linkage and opens the linked video in the preview window, the linked video will be displayed on the window set as the alarm output. If multiple alarms occur, open the latest linked video. If the number of device alarm windows is less than the number of linked videos, open the first alarm-triggered linked video. The window border will display red after setting.

5.1.3.3 Lock Video

Lock the recording of a specified channel for a certain period of time. When the storage disk is full, the locked recording will not be overwritten.

Operating Steps

- Step 1 In the "Video Playback" interface, select an organization, device, or channel from the device list and double-click or drag it to the window.
- Step 2 Select the video storage location and click  to select date.
The system displays the query results.
- Step 3 Select a window with recordings, click , then click the start and end times on the timeline.
Move the mouse to the timeline and scroll the mouse wheel to zoom in or out on the timeline.
- Step 4 Confirm the time and click OK.

Associative Operation

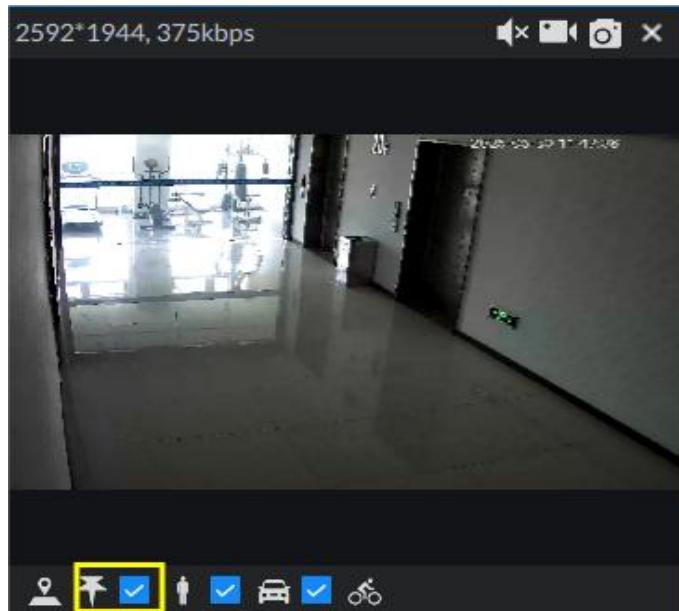
Click  in the lower - right corner to view all the locked records of the currently logged-in user. Double - click a locked record to quickly play the corresponding recording.

5.1.3.4 Mark the video

Tag the videos you are interested in for easy later search.

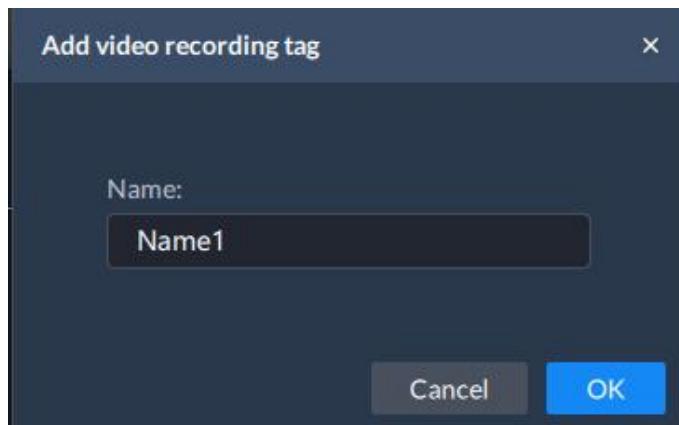
- Step 1 In the "Video Playback" interface, select an organization, device, or channel from the device list and double-click or drag it to the window.
- Step 2 Select the video storage location in the drop-down list box and click  to select date.
The system displays the query results.
- Step 3 Select the window and click  to play video.
- Step 4 Move the mouse to the window where the video is playing and click  on the lower left corner of the window.

Figure 5-25 Video Tagging



Step 5 Enter "Name" and click "OK".

Figure 5-26 Add a Video Tag



5.1.3.5 Filter Video Types

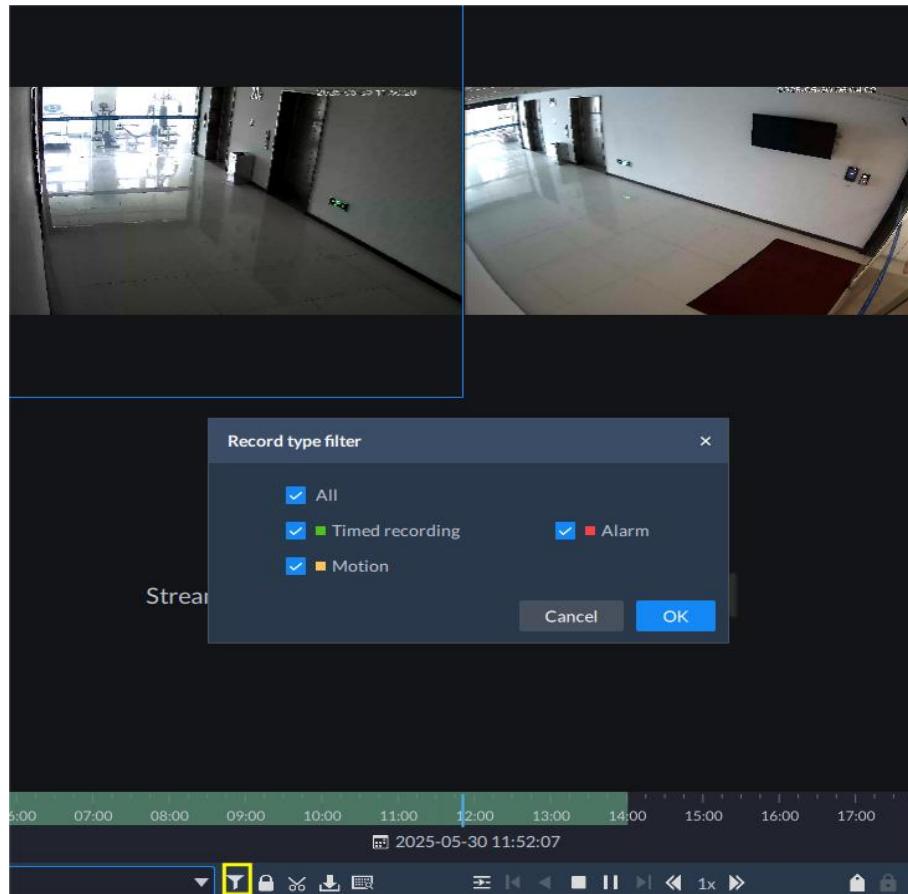
Filter recordings based on recording types, which include scheduled recordings, alarm recordings, and motion detection recordings.

Step 1 On the client "Playback" interface, click .

Step 2 Select the video type and click OK.

The system only shows videos of the selected type.

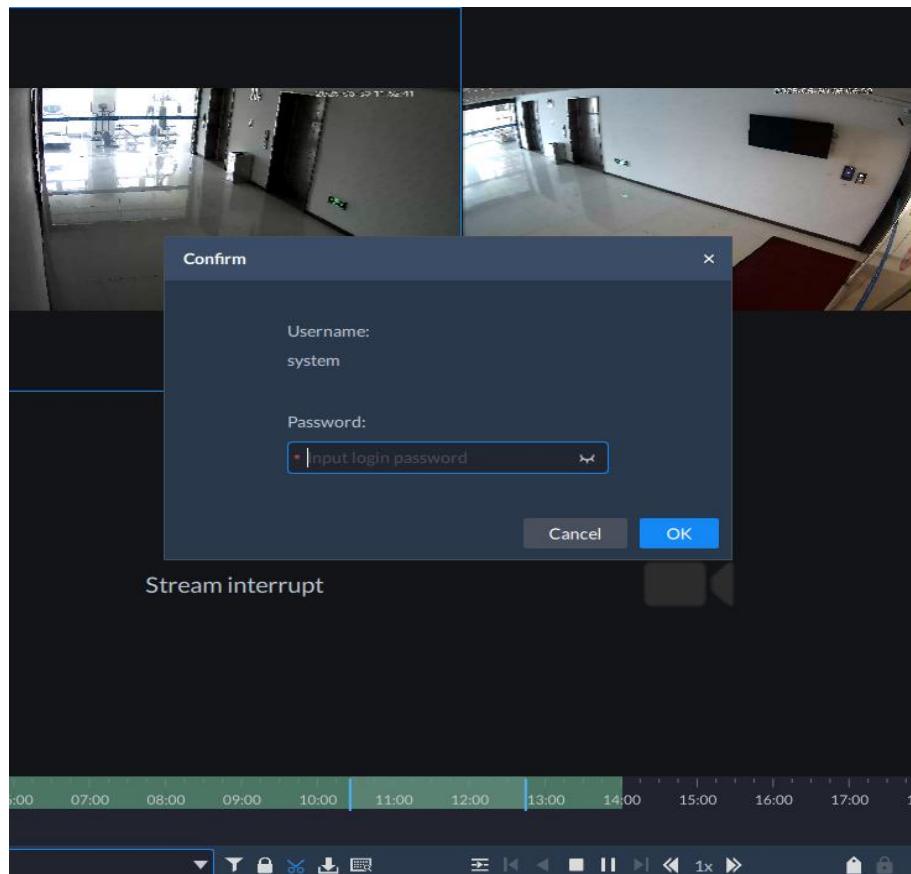
Figure 5-27 Video Filtering



5.1.3.6 Cut Video

- Step 1 In the "Playback" interface, select an organization, device, or channel from the device list and double-click or drag it to the window.
- Step 2 Select the video storage location in the drop-down list box and click to select date. The system displays the query results.
- Step 3 Select the window with the video and click below the video playback interface.
- Step 4 In the timeline, click to select the cut start point, drag the mouse, and click again to select the cut end point.
- Step 5 Enter the login password.
- Step 6 Confirm the start and end time of the video, and click OK.

Figure 5-28 Cut and Download

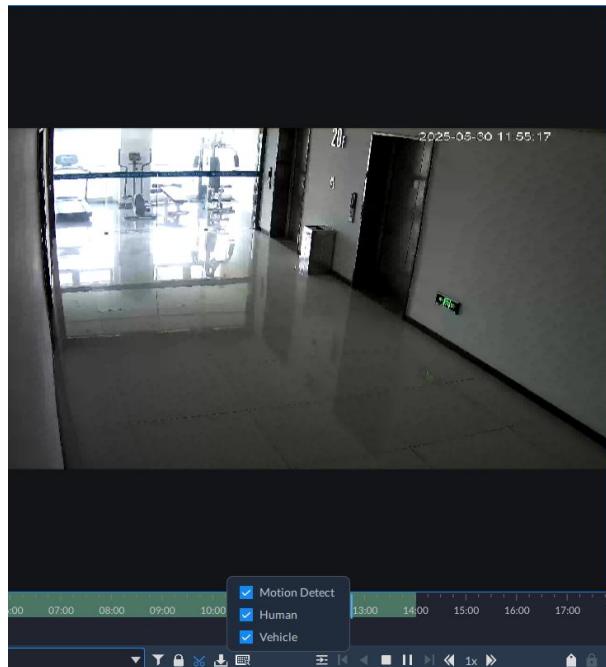


5.1.3.7 Smart Search

Dynamically detect and analyze the designated area of the device recordings. Only play back the recordings with dynamic images in the detected area. It supports filtering out people, vehicles, and motion detection. The added front-end devices are required to support the intelligent retrieval function; otherwise, the retrieval result will be empty.

- Step 1 In the "Playback" interface, select an organization, device, or channel from the device list and double-click or drag it to the window.
- Step 2 Select the video storage location in the drop-down list box and click to select date.
The system displays the query results.
- Step 3 Select the window with the video, click , and select type.
The window displays 22x18 small squares.

Figure 5-29 Enable Smart Search



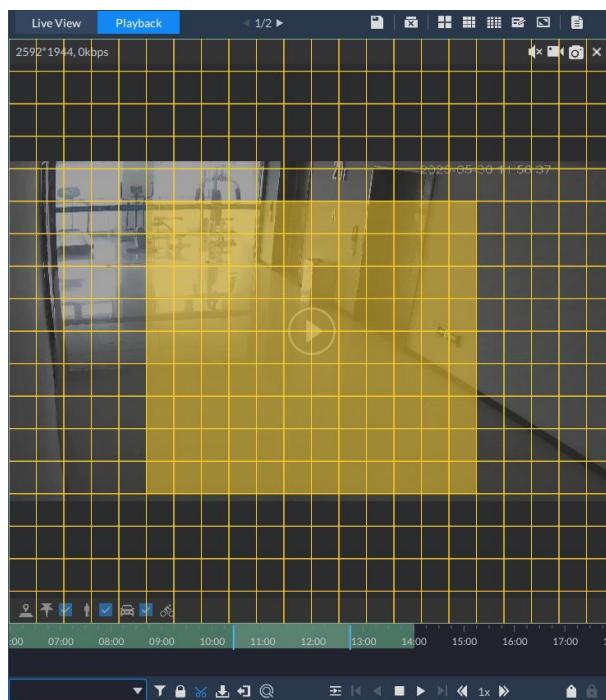
Step 4 Click the small square to select the detection area, support multiple selection.



INSTRUCTION

- Support box selection detection area: move the mouse to the picture, hold down the left mouse button and drag the mouse to select a small square.
- In the selected area, click or frame the small square again to unselect.

Figure 5-30 Smart Search



Step 5 Click  to start Smart Search analysis.

- If there is a query result, the dynamic frame is displayed in purple on the timeline.

- If the device does not support intelligent retrieval, it will prompt that the device does not support intelligent retrieval.



Click to reselect the detection area..

Step 6 Click the play button on the screen or control bar.

The system only plays back the search results, that is, the frames are displayed in purple on the timeline.

Step 7 Click to exit smart search.

5.1.4 Map Application

Preview the map on the real-time preview interface, where you can view device videos on the map, cancel alarms, and perform other operations.

Prerequisite

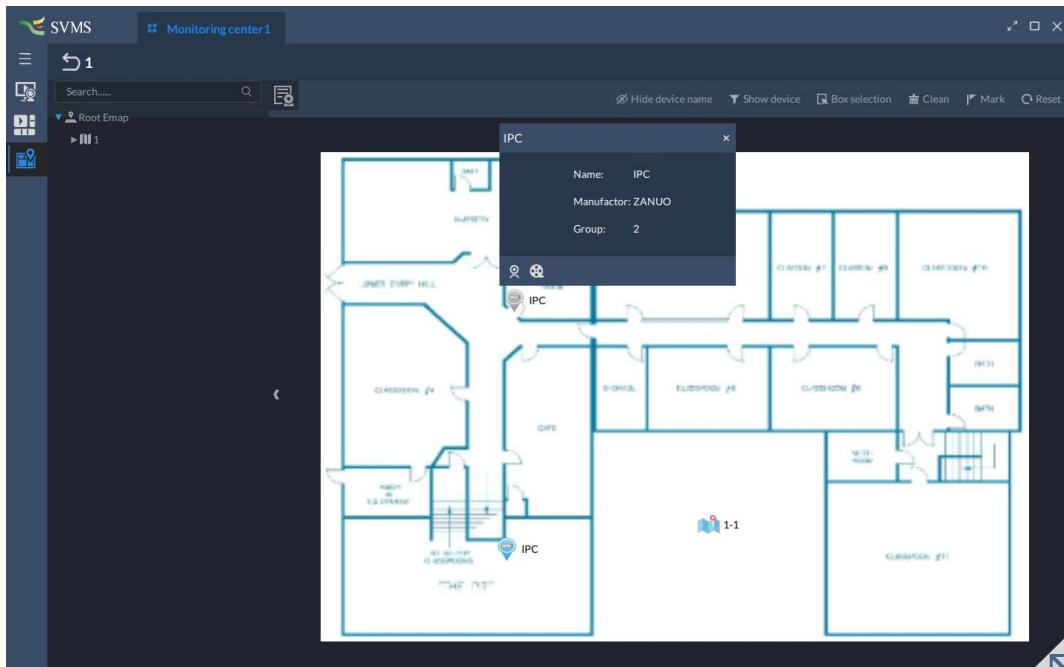
The map has been set up. For details, see "4.2 Setting the Map".

Operating Steps

- Step 1 Log in to the client, on the "Home" screen, select " > Monitoring Center".
- Step 2 Click .
- Step 3 In the list of maps, click the map.

The video window displays maps and devices.

Figure 5-31 View Map



Step 4 Click on the device to perform real-time video, alarm cancellation and other device operations.



INSTRUCTION

Different map types and device types support different operations, subject to the actual interface.

- Hide device name

Hide the name of the device and only display the icon.

- Preview video

Click "Box selection", select devices on the map, then click to batch view live videos; or click a device on the map and select to view real-time preview.

- Playback video

Click "Box selection", select the device on the map, and click to batch view live video; or click the device on the map, and select to view live video.

- Show device

The raster map filters the display video channel and alarm input channel.

- Clean

Click Clear to erase all traces from the map.

- Mark

Click "Mark" to label information on the map.

- Reset

Click "Reset" to restore the map to its initial center position and zoom size.

- Click to view information about the submap.

- Double-click , and the system automatically jumps to the submap to view the channels in the submap.

5.1.5 Video Wall

Special equipment is used to decode the video source and output it to the large screen. It is generally used in command centers and other scenarios.

5.1.5.1 TV Wall Interface

Before using the TV wall function, understand the TV wall interface in advance.

Figure 5-32 TV Wall Interface

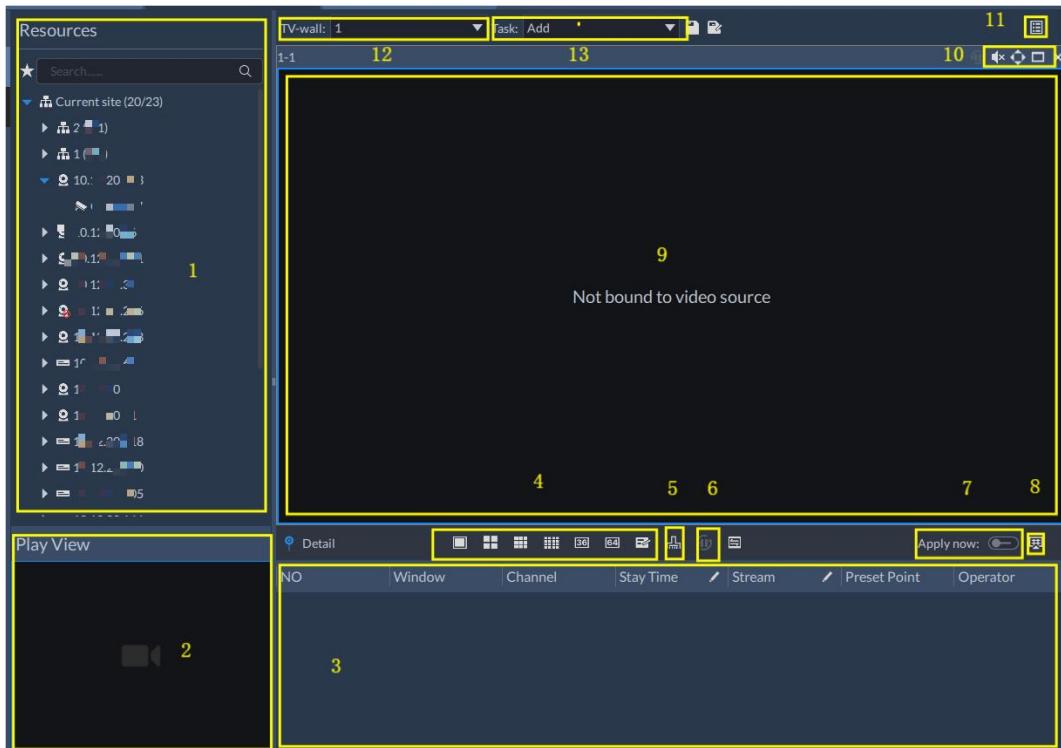


Table 5-8 TV Wall Interface Description

Number	Name	Description
1	Device List	<p>Display the device and its channels. Click to view the saved channels.</p> <p>Supports searching queries in <input type="text" value="搜索....."/> based on device name or channel name.</p>
2	Play View	Preview the channel's videos.
3	Detail	<p>View the binding information of displays, Windows, and channels.</p> <ul style="list-style-type: none"> Click to preview the video in the "Live Preview" area at the bottom left to see if it is the desired channel. Click to adjust the order. Click to delete the video source of the added window. Double-click the "Stay Time" input box or click to modify the stay time of the channel during the tour. Double-click the "Stream" input box or click to modify the video code stream.
4	Screen Splitting	Set the way the screen is divided.

5	Clean	Clear all screen information.
6	Stop All Tour	Start or stop all tours.
7	Apply Now	After the task configuration is completed, the system immediately performs the wall operation.
8	Decode to Wall	Manually execute the wall display operation once.
9	TV Wall	TV wall area.
10	Screen Operation	Operations include stopping the current screen rotation, audio, adhesion, maximum and minimum, and closing the screen.
11	Video Wall Plan	Set the timed plan and tour plan. For details, please refer to "5.1.5.5 Set the scheduled wall task".
12	Select TV Wall	Select the TV wall to configure.
13	Task	Add, save, and delete tasks.

5.1.5.2 Preparation Before Setting

- Confirm that the encoder (IPC, analog camera, etc.), decoding equipment and display screen have been installed and deployed. Please refer to the equipment manual for details.
- The basic configuration of the platform has been completed. For details, please refer to "[3 Basic Configuration](#)". The following points should be noted during the configuration process:
 - Add an encoder device in the "Device Manager" interface, select "Device class" as Encoder.
 - Add an display and control device in the "Device Manager" interface, and select "Device class" as "Video Wall Control".

5.1.5.3 Add a TV Wall

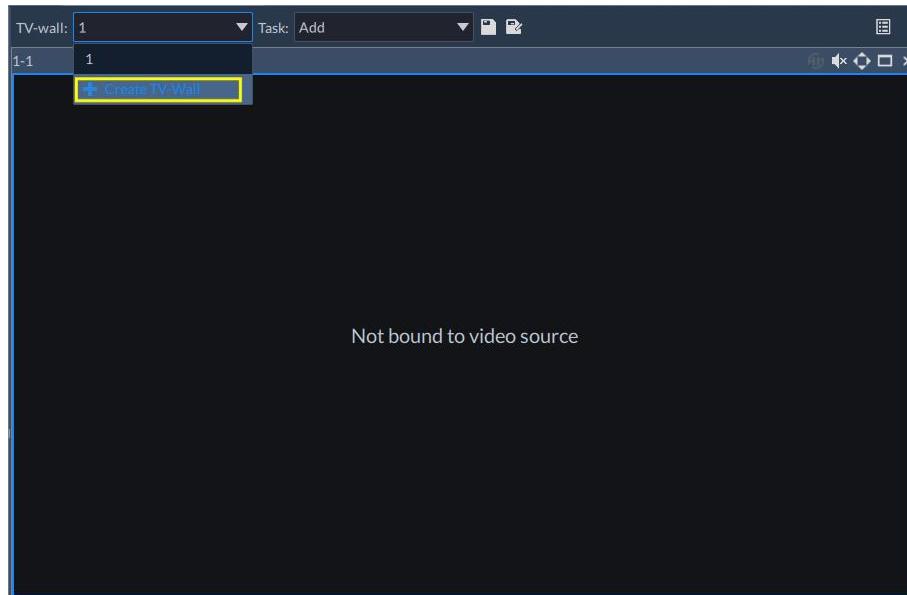
Create a TV wall and bind the decoding channel to the screen to prepare for the TV Wall display.

Step 1 Log in to the client, on the "Home" screen, select " Monitoring Center".

Step 2 Click .

Step 3 In the drop-down box under "TV Wall", select "Create TV Wall".

Figure 5-33 Create TV Wall

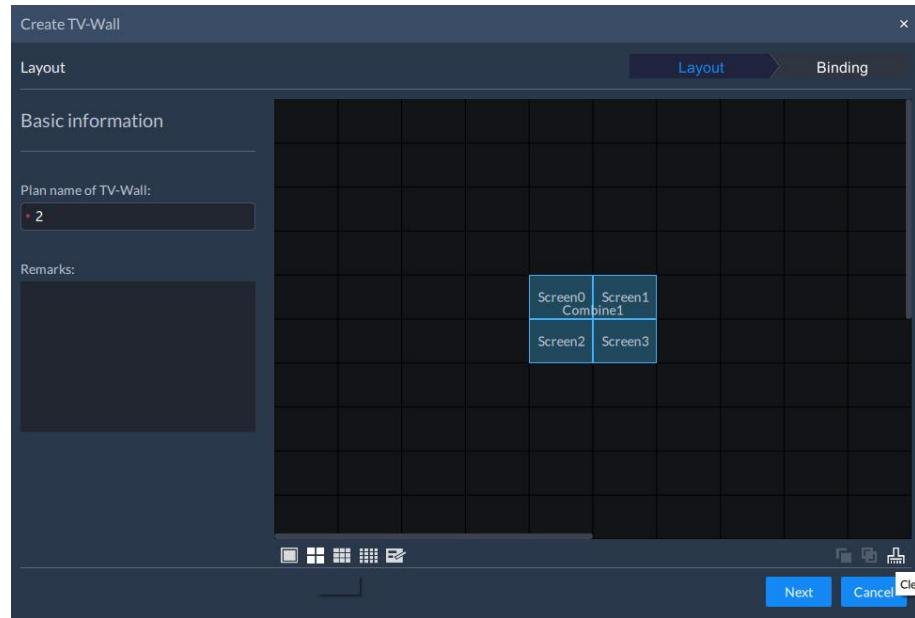


Step 4 Enter the name of the video wall scheme, select the video wall screen number icon below, and click anywhere on the screen to add a window.

INSTRUCTION

- The number of screens on the window supports 1, 4, 9, 16, and custom screen numbers. Click  for custom screen numbers.
- If the add window is for multiple screens, the default setup combines these screens into a merged screen, allowing video to roam across the merged screen. For example, with four screens fused together, if you turn off three of the video streams and only keep one, that single stream will fill the entire merged screen. To cancel the fusion screen, select the merged screen, right-click and choose "Cancel," or click .
- To manually create a merged screen, hold down the [Ctrl] key, select multiple screens, and click .
- If the screen is not added correctly, click  and add it again.

Figure 5-34 TV Wall Layout Setting



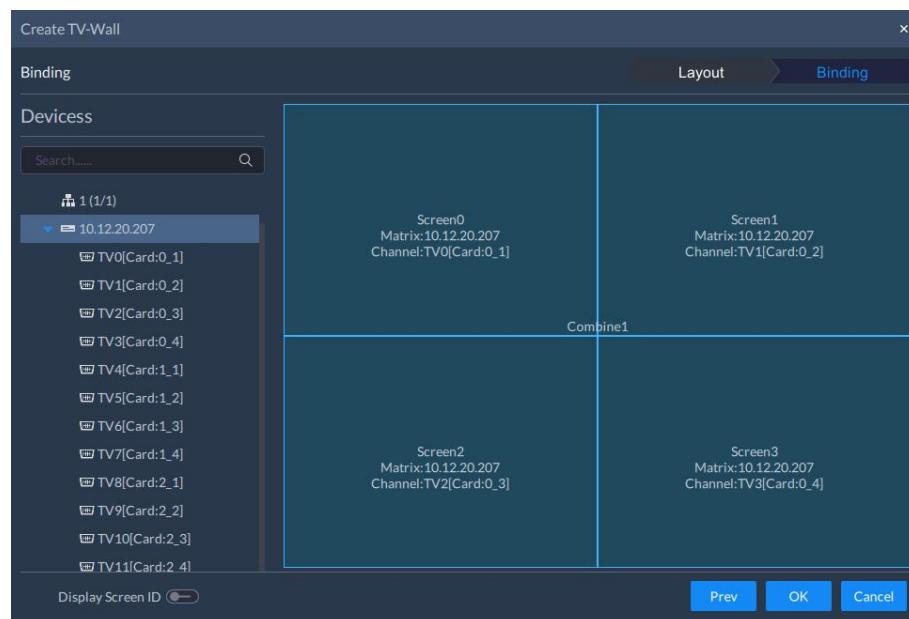
Step 5 Click Next.

Step 6 Select the decoder to bind in the device list and drag it to the corresponding screen.

INSTRUCTION

- The display screen switch controls whether the ID is displayed on the screen, indicating that the screen ID is not displayed on the TV wall; click this icon, and the icon changes to , and the screen ID is displayed on the TV wall.
- Each screen in the merged screen must be bound to a decoding channel. A merged screen can only bind one channel of a device.

Figure 5-35 Select the Decoding Channel



Step 7 Click Finish.

5.1.5.4 Add Wall Tasks

Save the commonly used TV wall as a task scheme. When using it again, directly call the task to quickly put it on the wall.

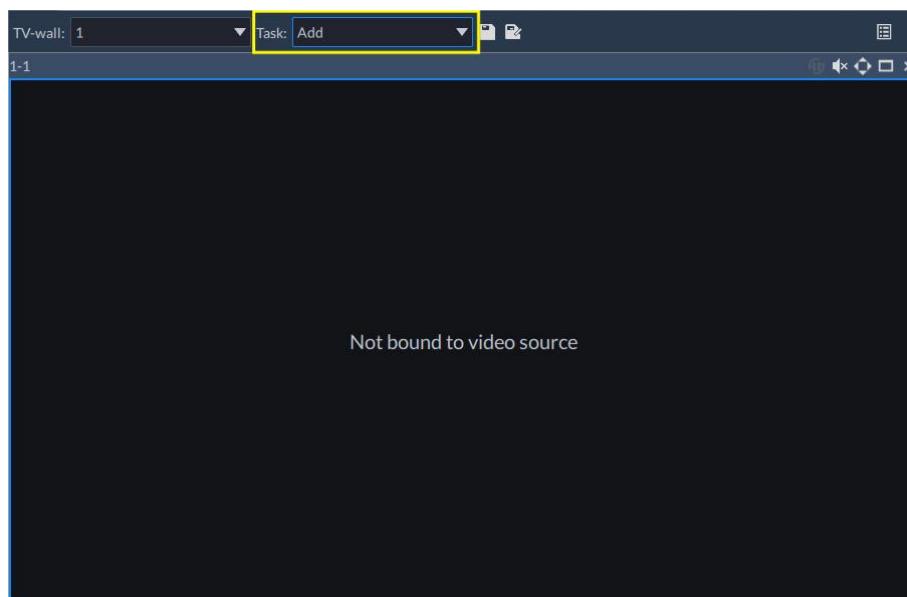
Prerequisite

The TV wall has been added.

Operating Steps

- Step 1 Log in to the client, on the "Home" page, select "TV-wall">>Monitoring Center".
- Step 2 Click .
- Step 3 In the Task drop-down box, select Add.

Figure 5-36 Add Tasks



- Step 4 Drag the left video channel to the right screen to bind the channel to the screen.



In the instant wall mode, delete the already bound channel and add a new bound channel to the wall.

- Step 5 Click .



If the task box selects a created task, drag the video channel to bind it, click , and save it as another task. The saved task will automatically go up on the wall.

- Step 6 Enter the task name and click OK to save the task.

Associative Operation

- After a task is displayed on the video wall, to rebind the video channel, you need to click  in the lower-right corner to perform a manual wall display.

- When the task is on the wall, click  or  below to stop or start the tour.

5.1.5.5 Set up Wall Plan

5.1.5.5.1 Set up Timed Plan

If the wall task has been added, set the start and end time of each task on the wall in detail, and the duration of each task on the wall to form a plan and execute it regularly. If the set task does not occupy a full day, you can also set the remaining time to execute other tasks.

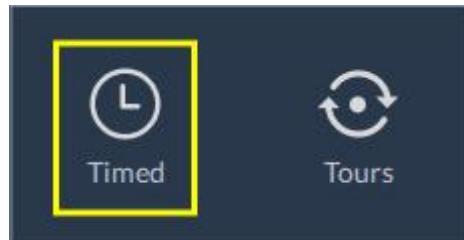
Prerequisite

The wall task has been added.

Operating Steps

- Step 1 Log in to the client, on the "Home" screen, select " Monitoring Center".
- Step 2 Click .
- Step 3 Click  in the upper right corner.
- Step 4 Move the mouse on  and select "Timer".

Figure 5-37 Select Plan Type



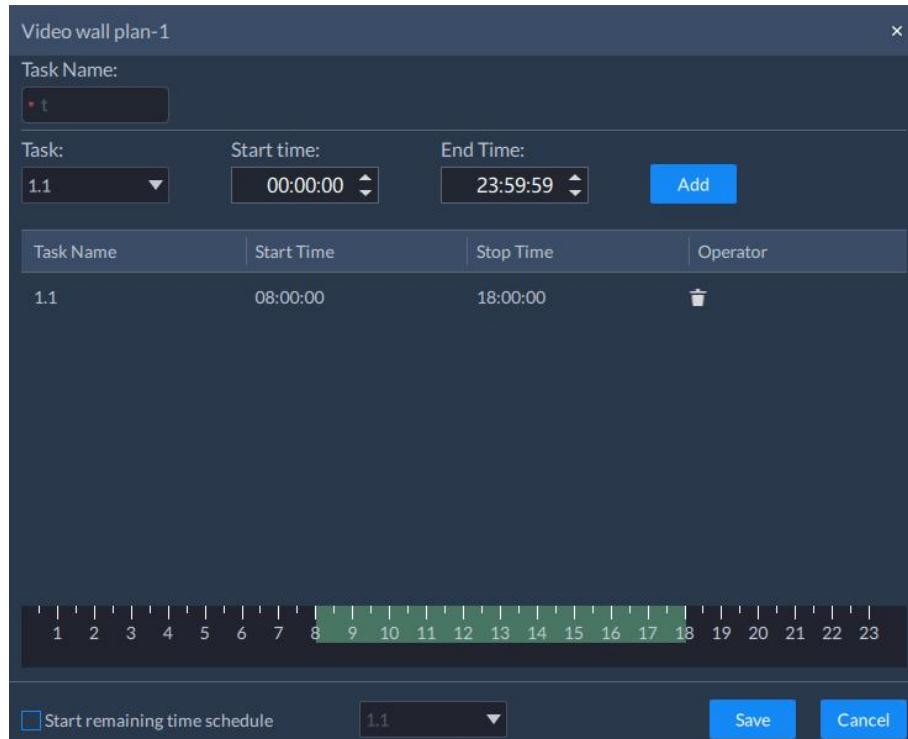
- Step 5 Enter the plan name, select the task, enter the start time and end time of the task, click Add, add the task to the list.

Repeat this operation to add multiple tasks, but the start time and end time of the tasks cannot be repeated.



If the task is not full after adding, select "Timed" and select the "Tour" task for the remaining time.

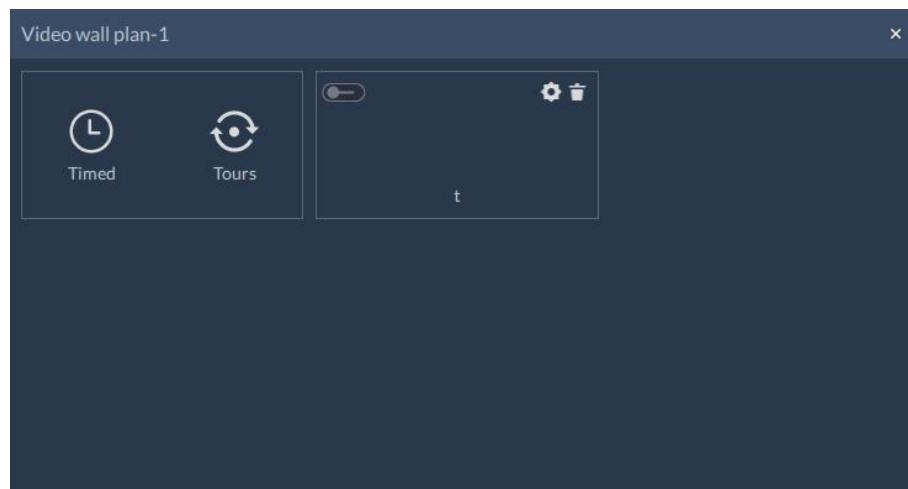
Figure 5-38 Add Tasks



Step 6 Click Save.

Step 7 In the list of plans, click  to open the timed wall plan.

Figure 5-39 Start the TV Wall Plan



Multiple plans cannot be put on the wall at the same time. When another plan is opened, the previous one will automatically close.

Associative Operation

- Modify the plan

On the TV Wall Plan Management interface, click  and modify the plan according to the prompts on the interface.

- Delete the plan

On the TV Wall Plan management interface, click and delete the plan according to the interface prompt.

5.1.5.5.2 Set up Tour Plan

If you have added wall tasks, set the order of multiple tasks and the duration of each task, and repeat the wall cycle.

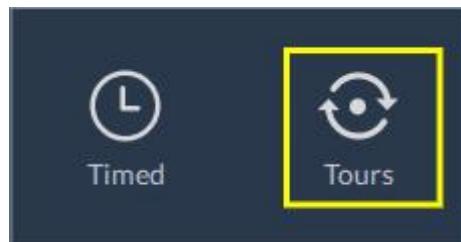
Prerequisite

Wall tasks have been added. For details on adding wall tasks, see "[5.1.5.4 Add Wall Tasks](#)".

Operating Steps

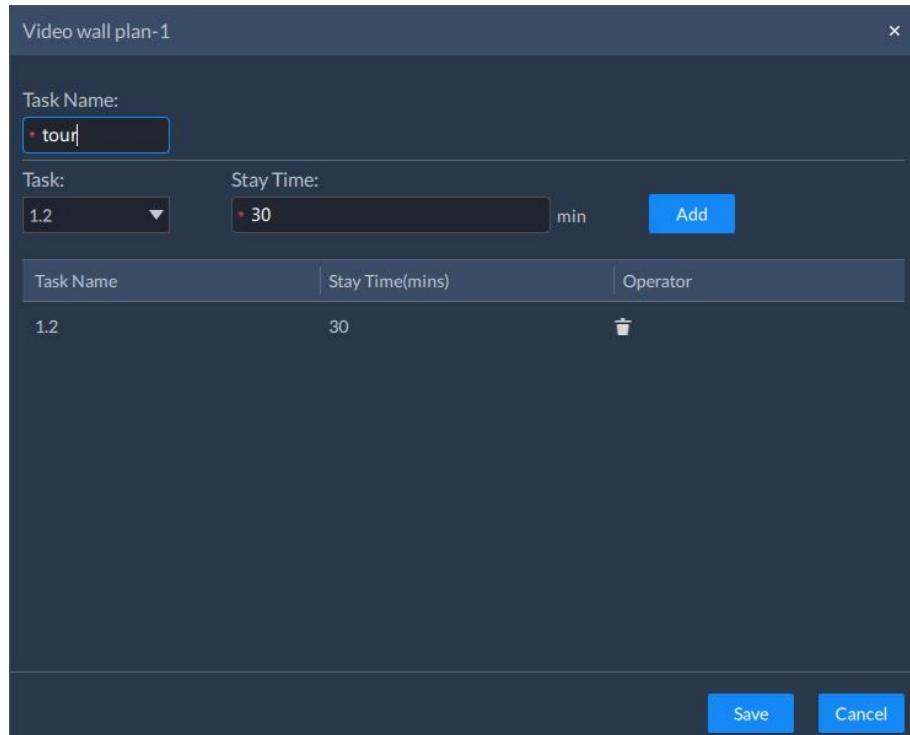
- Step 1 Log in to the client, on the "Home" screen, select " > Monitoring Center".
- Step 2 Click .
- Step 3 Click in the upper right corner.
- Step 4 Move the mouse on and select "Tours".

Figure 5-40 Select the Type of Task



- Step 5 Enter the plan name, select the task, enter the stay time, click "Add" to add the task to the list. Repeat this operation to add multiple tasks.

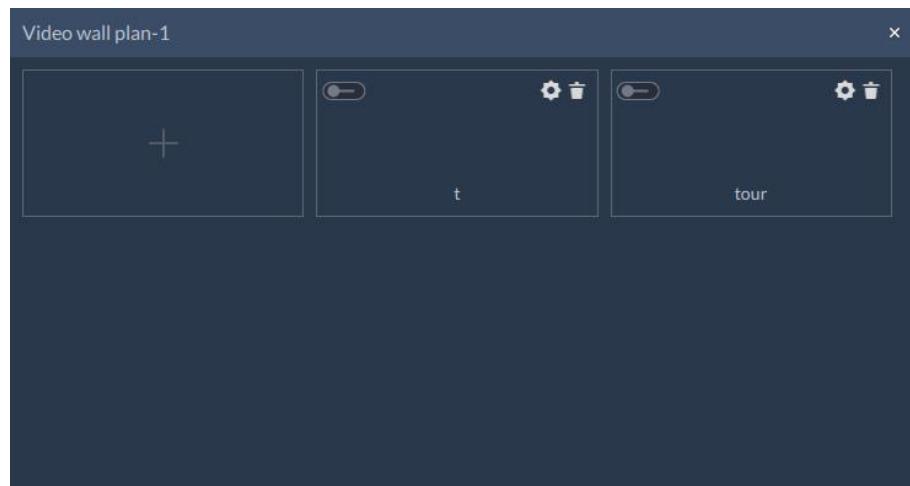
Figure 5-41 Add Tasks



Step 6 Click Save.

Step 7 In the plan list, click to open the tour wall plan.

Figure 5-42 Start the Wall Plan



Multiple plans cannot be put on the wall at the same time. When another plan is opened, the previous one on the wall will be automatically closed.

Associative Operation

- Modify the plan

On the TV Wall Plan management interface, click and modify the plan according to the prompts on the interface.

- Delete the plan

On the TV Wall Plan management interface, click and delete the plan according to the interface prompt.

5.1.5.6 TV Wall Application

Before using the video wall application, it is required that the coding devices and display screens have been wired.

5.1.5.6.1 Instant TV Wall Display

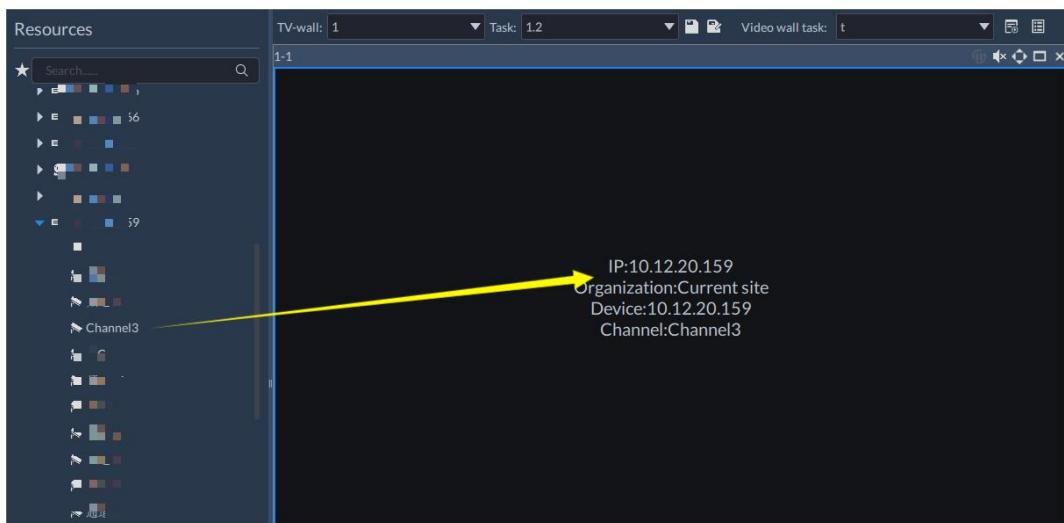
Drag the video channel to the added TV wall, and the video channel is displayed on the display screen (large screen).

- Step 1 Log in to the client, on the "Home" screen, select " > Monitoring Center".
- Step 2 Click
- Step 3 Select TV Wall in the drop-down box below.
- Step 4 Click in the lower right corner of the interface to enable the instant wall function.
- Step 5 Drag the left video channel to the right window to bind the channel to the screen.



A window can be bound to multiple video sources.

Figure 5-43 Bind the Video Channel



- Step 6 Select the screen and click below. View the video channel information bound to the screen, and set the dwell time, bitstream type, preset point, and display order for each video channel.
 - Click to open the live video of the channel in the preview window at the lower left corner.
 - When binding multiple video sources, click / to adjust the display order of video sources.
 - Click to delete the video source.

5.1.5.6.2 TV Wall Task Display

Call the configured task scheme to achieve quick display on the video wall.

Prerequisite

Wall tasks have been added. For details on adding wall tasks, see "[5.1.5.4 Add Wall Tasks](#)".

Operating Steps

Step 1 Log in to the client, on the "Home" screen, select " Monitoring Center".

Step 2 Click .

Step 3 In the Task drop-down box, select Task.

Step 4 Display it on the wall.

If you modify the bound video channel after the task is put on the wall, you need to click the in lower right corner and manually put it on the wall. When the task is put on the wall, click the / below to stop the tour or start the tour.

Select the screen and click Details below . View the video channel information bound to the screen, and set the dwell time, bitstream type, preset point, and display order for each video channel.

- Click to open the live video of the channel in the preview window at the lower left corner.
- When binding multiple video sources, click / to adjust the display order of the video sources.
- Click to delete the video source.

5.1.5.6.3 TV Wall Plan Display

According to the already set timed plan and tour plan, it will be automatically put on the wall at the set time.

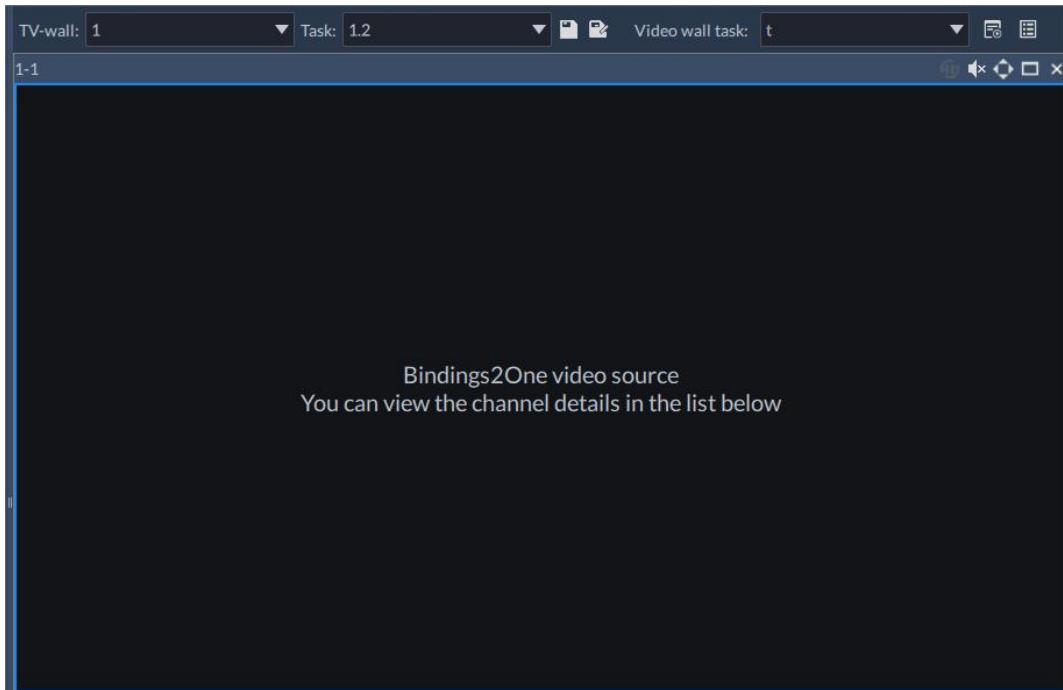
Prerequisite

The TV wall plan has been added.

Operating Steps

Automatically execute the wall task at the set time. If you need to stop the wall plan when the wall is up, click in the upper right corner of the interface to switch to . Click to restart.

Figure 5-44 Stop/Start the Plan



5.2 Event Manager

The Event Manager provides a full-process application for alarm monitoring and handling. When an alarm is triggered, you will receive real-time push notifications on the client side, allowing you to view screenshots, videos, and other information related to the alarm, as well as handle it. If you miss an alarm that was triggered at a certain time, or if you need to review specific alarms, such as all high-priority alarms triggered yesterday or those left unprocessed over the past week, you can simply set the corresponding search conditions to find and view these alarms.

Events can only be received after the events are correctly configured. For details on event configuration, see "[4.1 Event Settings](#)".



Set the display mode of more event alarms for local clients. For details, please refer to "[7.3.3 Alarm Parameters Settings](#)".

5.2.1 Real-time Events

Supports viewing and processing real-time events.

Operating Steps

- Step 1 Log in to the client and on the Home page, select > Event Manager.
- Step 2 Click to view real-time alarms.
 - The client defaults to real-time refresh event alerts. Click "Stop refreshing" to stop refresh alerts; click "Start refreshing" to refresh alerts.
 - Click Clean to delete all real-time alarm information displayed.

Figure 5-45 Alarm List

Alarm Time	SourceType	Alarm type	Alarm Source	Priority	Processed by	Operator
2025-05-30 15:50:50	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:50:50	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:50:28	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:50:26	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:48:51	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:48:25	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:48:02	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:47:23	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:47:15	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle	system	
2025-05-30 15:46:23	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:46:07	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:45:23	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:45:18	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:44:34	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:44:25	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:44:15	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		
2025-05-30 15:44:07	Video Channel	Motion Detection	10.12.20.34 - IPC	Middle		

Step 3 Click the corresponding to the alarm to claim it.

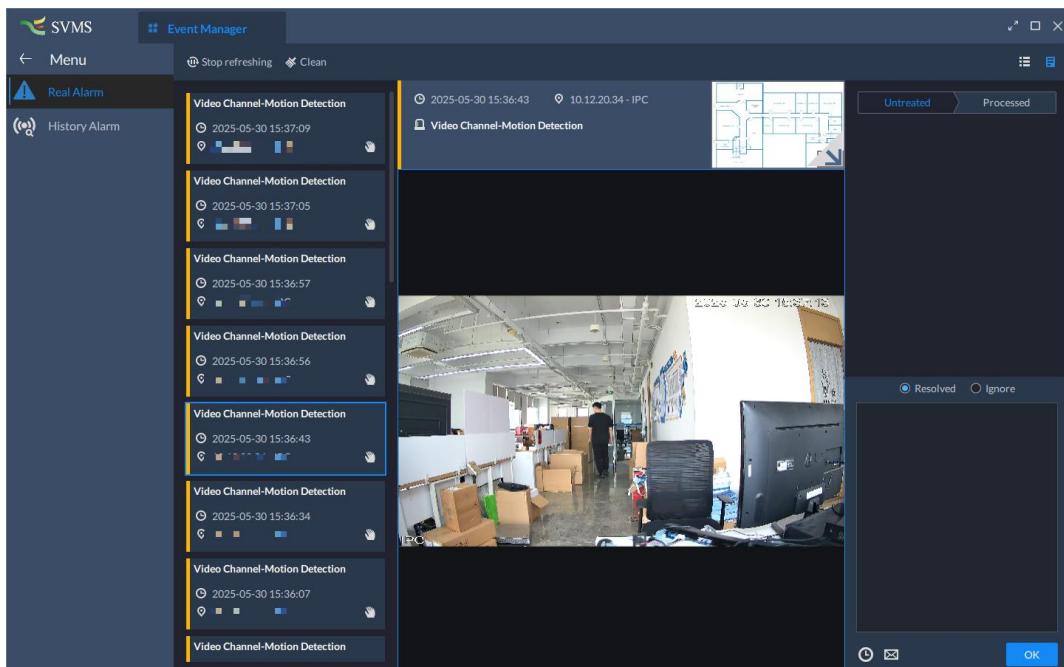
After claiming, the "Operator" field displays the user name of the claimed account.

Step 4 View and process alarms.

Users can only process claimed alarms.

- Click or double-click the alarm.

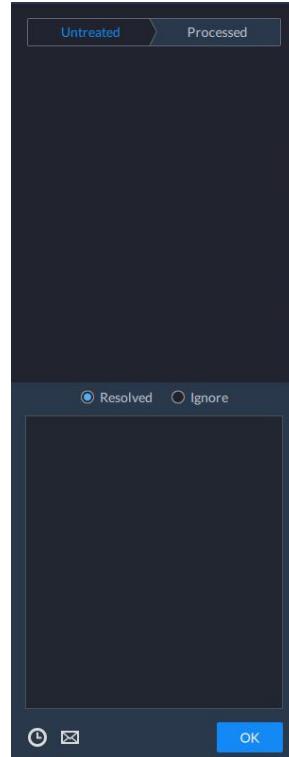
Figure 5-46 Alarm Detail



- The middle area shows the alarm time, alarm source, alarm type, location, as well as the real-time preview of the linkage channel, alarm video recording and alarm capture. Double-click one of the windows to display it in large size. Double-click again to exit.
- In the alarm processing area on the right, select the processing result, such as "resolved", "ignored" or "forward", enter the processing opinion, and click "OK".

Forward the incoming alarm to other users for processing.

Figure 5-47 Alarm Processing

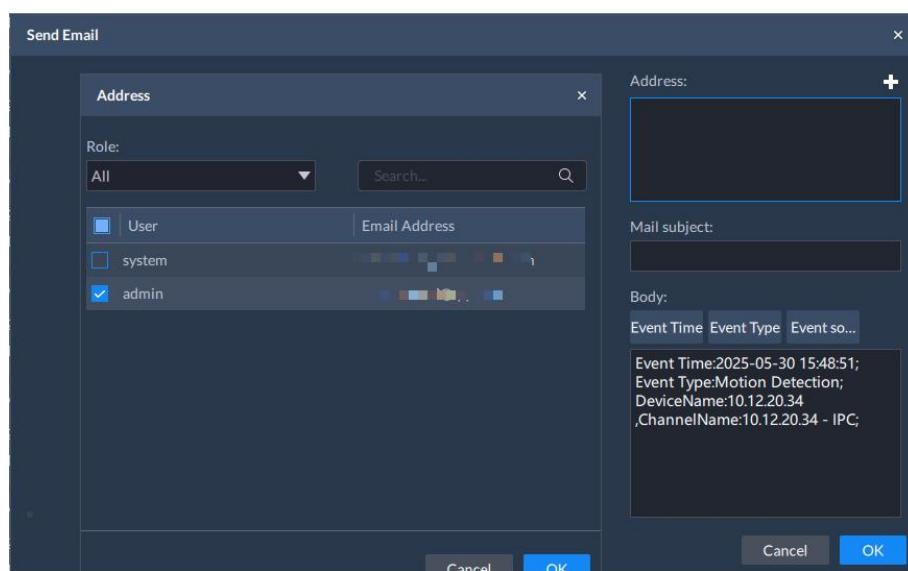


4. (Optional) The event is in the alarm state . Click to set the temporary duration of not alarming, and click "OK". During the set time, the current event of the current channel does not alarm; after the set time, if the alarm is not eliminated, the alarm continues.

5. (Optional) Click to edit email information and click OK.

Send an email to the user through the system-set mailbox or the specified mailbox to inform the user of the occurrence of the alarm event.

Figure 5-48 Send Mail



5.2.2 Historical Events

Supports querying and processing historical events.

Step 1 Log in to the client and on the Home page, select > Event Manager.

Step 2 Click .

Step 3 Set the query conditions and click Search.

Figure 5-49 Search Alarm

NO	Alarm Time	SourceType	Alarm type	Alarm Source	Priority	Processed by	Status	Operator
1	2025-05-30 15:31:27	Video Channel	Motion Detection		Middle		Untreated	
2	2025-05-30 15:31:17	Channel	Motion Detection		Middle		Untreated	
3	2025-05-30 15:31:08	Video Channel	Motion Detection		Middle		Untreated	
4	2025-05-30 15:31:03	Channel	Motion Detection		Middle		Untreated	
5	2025-05-30 15:31:03	Video Channel	Motion Detection		Middle		Untreated	
6	2025-05-30 15:30:54	Channel	Motion Detection		Middle		Untreated	
7	2025-05-30 15:30:04	Video Channel	Motion Detection		Middle		Untreated	
8	2025-05-30 15:30:04	Channel	Motion Detection		Middle		Untreated	
9	2025-05-30 15:30:03	Video Channel	Motion Detection		Middle		Untreated	
10	2025-05-30 15:30:03	Channel	Motion Detection		Middle		Untreated	
11	2025-05-30 15:29:56	Video Channel	Motion Detection		Middle		Untreated	
12	2025-05-30 15:29:56	Video	Motion Detection		Middle		Untreated	
13	2025-05-30 15:29:55	Channel	Motion Detection		Middle		Untreated	
14	2025-05-30 15:29:55	Video Channel	Motion Detection		Middle		Untreated	
15	2025-05-30 15:29:53	Channel	Motion Detection		Middle		Untreated	
16	2025-05-30 15:29:53	Video	Motion Detection		Middle		Untreated	
17	2025-05-30 15:29:52	Channel	Motion Detection		Middle		Untreated	
18	2025-05-30 15:29:52	Video Channel	Motion Detection		Middle		Untreated	
19	2025-05-30 15:29:51	Channel	Motion Detection		Middle		Untreated	
20	2025-05-30 15:29:51	Video Channel	Motion Detection		Middle		Untreated	

Step 4 Claim and process alarms. For details, see "[5.2.1 Real-time Events](#)".

5.3 Intelligent Retrieval

Support retrieval of records, personnel and vehicle information.

5.3.1 Record Search

Supports retrieval of face capture, human body capture, vehicle capture, and non-motor vehicle capture.

Step 1 Log in to the client, in the "Home" interface, select > Intelligent Retrieval".

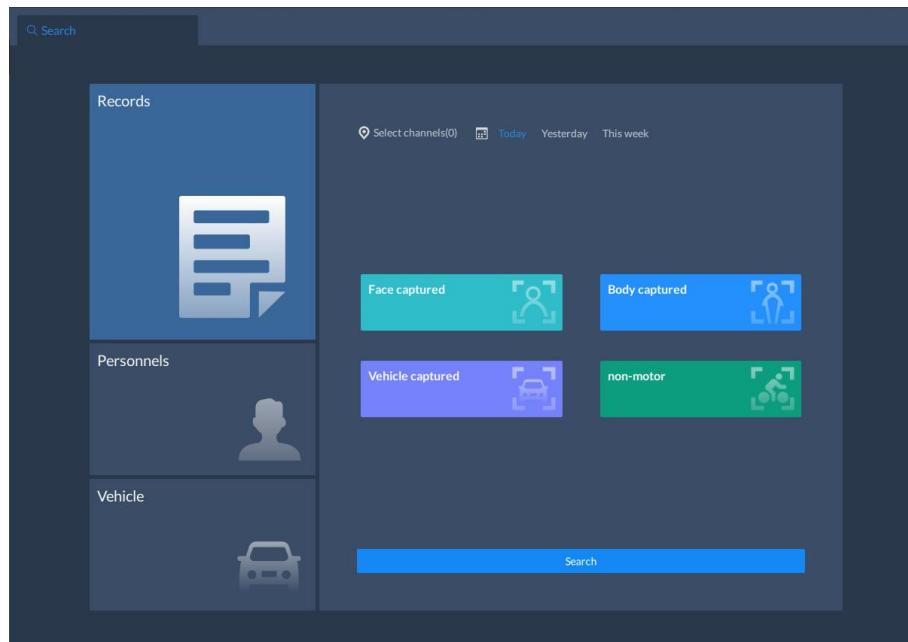
Step 2 Click .

Step 3 Click the "Records" TAB.

Step 4 Select the query channel, time, and query type, and click Search.

The system displays the query results.

Figure 5-50 Search Records



Step 5 Manage query results.

- View details of the record

Select the results that need to be recorded. You can view the details of the records on the right side of the interface, including captured images and replay videos.

- Delete the capture record

Records deleted cannot be recovered. Be careful. Click the corresponding to the record to delete the record.

5.3.2 Personnel Search

Supports querying personnel from the face capture database, human body capture database or personnel archive.

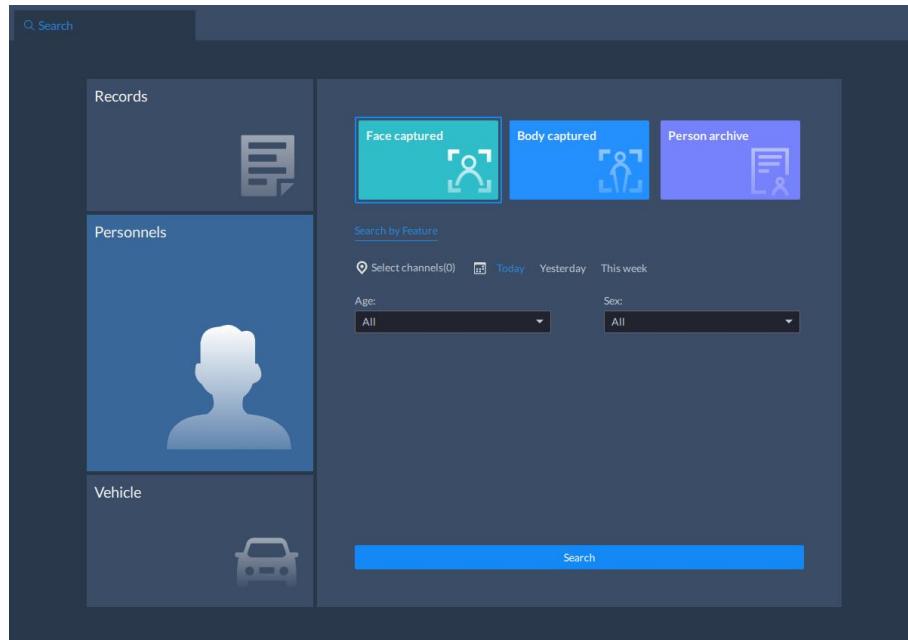
Step 1 Log in to the client and select " > Intelligent Retrieval" on the Home page.

Step 2 Click .

Step 3 Click the "Personnel" TAB.

Step 4 Select query type, query method and other information, and click "Search".

Figure 5-51 Search Personnel



Step 5 Manage query results.

- When querying face capture and human body capture, the query results support the following operations:
 - View details of the record

The selected results need to be recorded, and the details of the records can be viewed on the right side of the interface, including captured pictures and replay videos.

- Delete the capture record

Records deleted cannot be recovered. Be careful. Click the corresponding record to delete the record.

- When querying the personnel archive, double-click the record in the query result to view the face capture and license plate recognition information of the personnel.

5.3.3 Vehicle Search

Supports querying vehicles from the vehicle capture database or vehicle files.

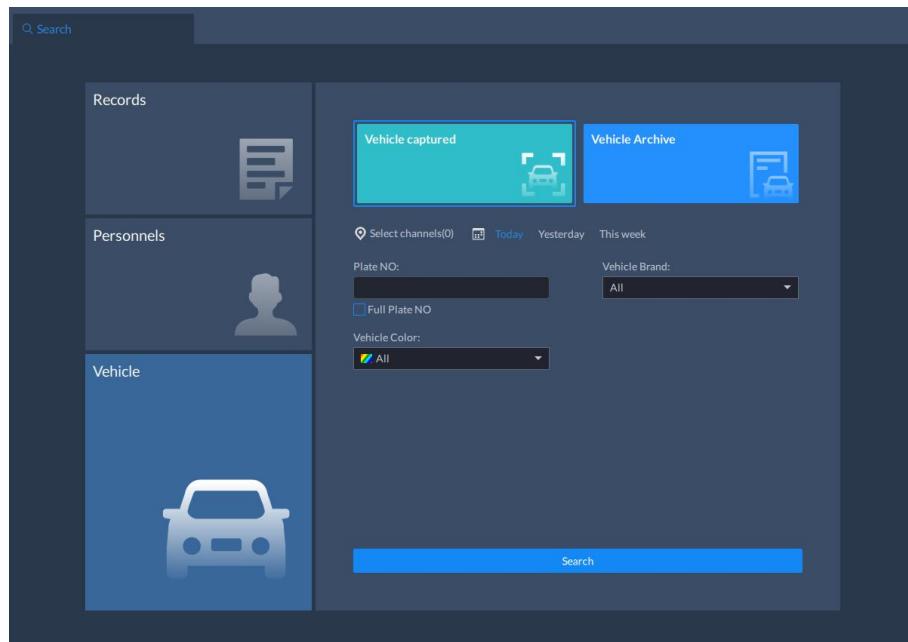
Step 1 Log in to the client and select " > Intelligent Retrieval" on the Home page.

Step 2 Click .

Step 3 Click the "Vehicle" TAB.

Step 4 Set the query conditions and click Search.

Figure 5-52 Search Vehicle



Step 5 Manage query results.

- The query results support the following operations:
 - View details of the record

Select the record in the result, and view the details of the record on the right side of the interface, including the captured picture, playback video, etc.

- Delete the capture record

Records deleted cannot be recovered. Be careful. Click the corresponding record to delete the record.

- When querying the vehicle file, double-click the record in the query result to view the license plate recognition record of the vehicle.

5.4 Parking Lot

Monitor the real-time picture of the entrance and exit, view the real-time identification of vehicle information, and query the incoming and outgoing vehicles, on-site vehicles and capture records.

5.4.1 Entrance/Exit Monitoring

Step 1 Log in to the client, on the "Home" screen, select " > Parking".

Step 2 Click .

Step 3 Select the window segmentation mode from .

Step 4 Click "Please click to select the entrance and exit", select the parking lot entrance and exit point, and click "OK".

Open the live video in the window.

Figure 5-53 Entrance/Exit Monitoring

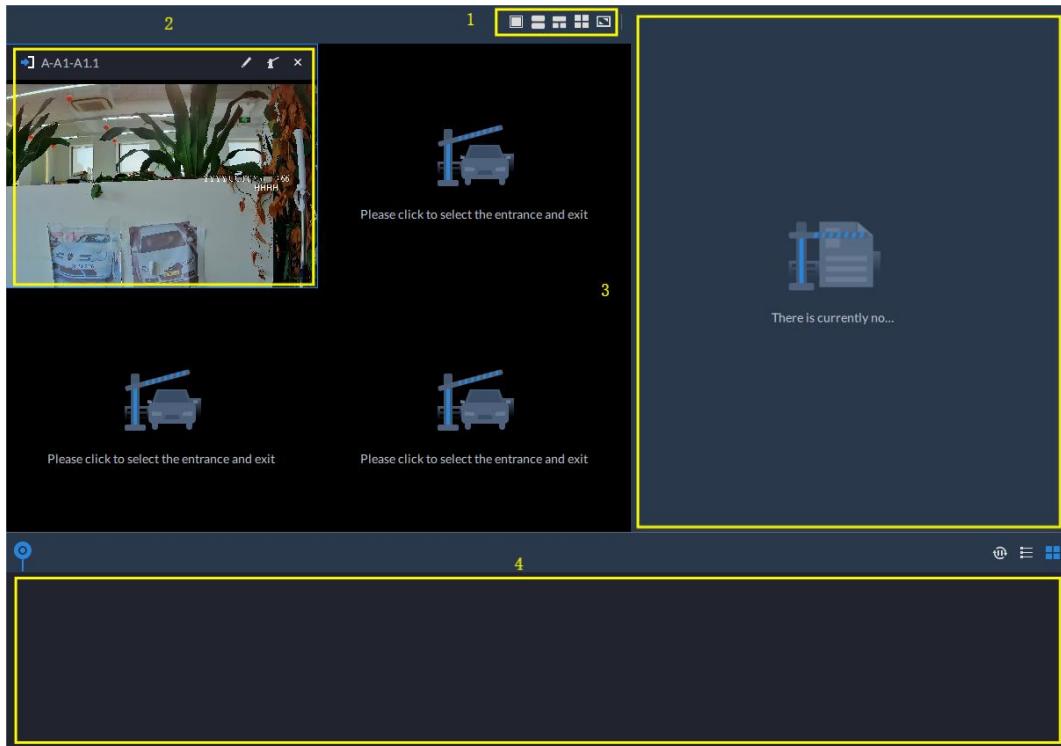
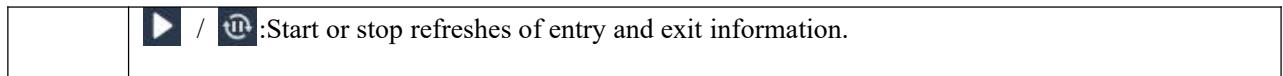


Table 5-9 Interface Description Table

Number	Description
1	Select the number of monitoring windows, each window can open a real-time video of an entrance/exit point.
2	<p>Real-time video of the entrance and exit points.</p> <ul style="list-style-type: none"> Click to open real-time video of other entry and exit points in the current window. Click to open the gate and release the vehicle. <ul style="list-style-type: none"> Direct gate opening: Direct gate opening to release vehicles. If "Calculate the remaining space" is selected, this operation will be used to calculate the available parking space in the parking lot. This operation does not generate entry or exit records. Snap gate opening: It is applicable to the situation where the entrance and exit cameras cannot normally identify the license plate number. The image is manually input and captured to generate entry or exit records.
3	<p>Display unopened gate records.</p> <ul style="list-style-type: none"> Click to open the gate and release the vehicle. Click to view the video of the relevant channel.
4	Display all access information.



5.4.2 Information Query

Query vehicle entry records, exit records, forced exit records and snapshot records according to point, time, vehicle group and other conditions.

5.4.2.1 Query Entry Records

Step 1 Log in to the client, on the "Home" screen, select " > Parking".

Step 2 Click .

Step 3 Click the "Entrance Records" TAB.

Step 4 Set the query conditions and click "Search".



Click "Show More" to support the query through the owner's name and other information.

Step 5 Manage records.

- Click on the license plate image to display a larger image.
- Click in the operation bar, and detailed information is displayed on the right side of the interface. Click in the playback control on the capture image to play the video, and click on download file.

If the dual camera mode is configured, click on the different channels to view the captured information.

- Forced exit

If the vehicle is displayed as not exited and the actual vehicle is no longer in the area, click in the operation column to switch the vehicle's exit status to "exited".

- Export information

Select the record, click "Export" and export the selected record according to the interface prompt; or click "Export" and export all records according to the interface prompt.

- Set the query result display item

Click and select the display item.

5.4.2.2 Query Exit Records

Step 1 Log in to the client, on the "Home" screen, select " > Parking".

Step 2 Click .

Step 3 Click the "Exit Record" TAB.

Step 4 Set the query conditions and click "Search".



Click "Show More" to support the query through the owner's name and other information.

Step 5 Manage records.

- Click on the license plate image to display a larger image.

Click  in the operation bar, and detailed information is displayed on the right side of the interface. Click  in the playback control on the capture image to play the video, and click on download file.

If the dual camera mode is configured, click on different channels to view the captured information.

- Export information

Select the record, click "Export" and export the selected record according to the interface prompt; or click "Export" and export all records according to the interface prompt.

- Set the query result display item

Click  and select the display item.

5.4.2.3 Query Forced Exit Records

Step 1 Log in to the client, on the "Home" screen, select " > Parking".

Step 2 Click .

Step 3 Click the "Forced Exit Record" TAB.

Step 4 Set the query conditions and click "Search".



Click "Show More" to support the query through the owner's name and other information.

Step 5 Manage records.

- Click on the license plate image to display a larger image.

Click  in the operation bar, and detailed information is displayed on the right side of the interface. Click  in the playback control on the capture image to play the video, and click on download file.

If the dual camera mode is configured, click on different channels to view the captured information.

- Export information

Select the record, click "Export" and export the selected record according to the interface prompt; or click "Export" and export all records according to the interface prompt.

- Set the query result display item

Click  and select the display item.

- If you think there is an error in the forced presence record, click to restore the status of the vehicle to present.

5.4.2.4 Query Capture Records

Step 1 Log in to the client, on the "Home" screen, select " > Parking".

Step 2 Click .

Step 3 Click the "Capture Records" TAB.

Step 4 Set the query conditions and click "Search".



Click "Show More" to support the query through the owner's name and other information.

Step 5 Manage vehicle capture information.

- Click on the license plate image to display a larger image.

Click  in the operation bar, and detailed information is displayed on the right side of the interface. Click  in the playback control on the capture image to play the video, and click on download file.

If the dual camera mode is configured, click on different channels to view the captured information.

- Export information

Select the record, click "Export" to export the selected record according to the interface prompt; or click "Export" to export all records according to the interface prompt.

- Set the query result display item

Click  and select the display item.

6 System Configuration

Introduce the system parameters, authorization and permission, backup and restoration of the platform.

6.1 Licence

The system allows the functions and channels that can be used through License authorization. Users can flexibly select License according to their actual needs, so as to obtain the corresponding function rights and meet their business needs.

Classification

- Free version
The version is authorized by default at the time of factory release
- Formal Version
Licenses purchased according to contracts, all of which belong to the formal version. When the purchased License fails to meet requirements, re-purchasing and re-authorizing the License is supported.



For expired and unauthorized versions, the modules on the interface are displayed according to the formal version. Except for the "Resource", "Authorization License", "Tool" and "Management" modules, the icons of other modules are all displayed as unauthorized.

6.1.1 Activation Methods

- Online activation
When the platform server is connected to the network and can connect to the License server, it supports online activation of the License by checking the activation code.
- Offline activation
When the platform server cannot access the Internet, it cannot connect to the License server. The License file obtained is imported to activate the License on the platform.

6.1.2 Activate License

For more details on activating License, see "[2.3 License Activation](#)".

6.1.3 License Status

Displays the authorization status of the available functions and lanes on the current server, as well as the usage of authorized functions.

Figure 6-1 License Authorization Status

Resources				
ResourceType	Total	Used	Free	Status
Video Channel	256 Channel	2 Channel	254 Channel	● Authorized
Accounts	8 Accounts	2 Accounts	6 Accounts	● Authorized
Access Control Channel	16 Channel	0 Channel	16 Channel	● Authorized
Video Intercom	0 Device(s)	0 Device(s)	0 Device(s)	● Unauthorized
Alarm Controller	0 Device(s)	0 Device(s)	0 Device(s)	● Unauthorized

Attachment	
Module	Status
Parking Lot	● Authorized
P2P	● Authorized
Intelligent retrieval	● Authorized

6.2 System Parameters

Supports setting message retention time, mail server, time correction, active registration configuration, etc.

6.2.1 Setting Message Retention Time

Set the storage duration of logs, alarm records, face recognition records, video structured records, vehicle passing records, parking lot entrance and exit records, local video recording records, and manual capture records. The system automatically deletes the expired records.

- Step 1 Log in to the client, click  on the "Home" screen, and in the "System Settings" area, select "System Parameters".
- Step 2 Click the "Message save duration" TAB.
- Step 3 Double-click the number behind the message type to change the storage duration.

Figure 6-2 Modify the Message Storage Time

Message save duration	
Message Type	Storage duration (months)
Logs	6
Alarm Records	6
Parking lot entrance and exit records	6
Local video recording	6
Manual capture recording	6
Vehicle passed record	6
Face Recognition Records	6
Video Metadata Records	6

Step 4 Click Save.

6.2.2 Time Sync Configuration

Time synchronization refers to the time synchronization based on the system time of the platform server, and the time of non-access control devices, clients and platform servers is modified to be consistent. The platform supports time synchronization for devices with consistent time zones. Time synchronization methods include immediate time synchronization, timed time synchronization, device online time synchronization and NTP server time synchronization.

- Step 1 Log in to the client, click  on the "Home" screen, and in the "System Settings" area, select "System Parameters".
- Step 2 Click the "Time sync configuration" TAB.
- Step 3 Enable the time calibration method and set the time calibration parameters.

Figure 6-3 Enable Time Calibration

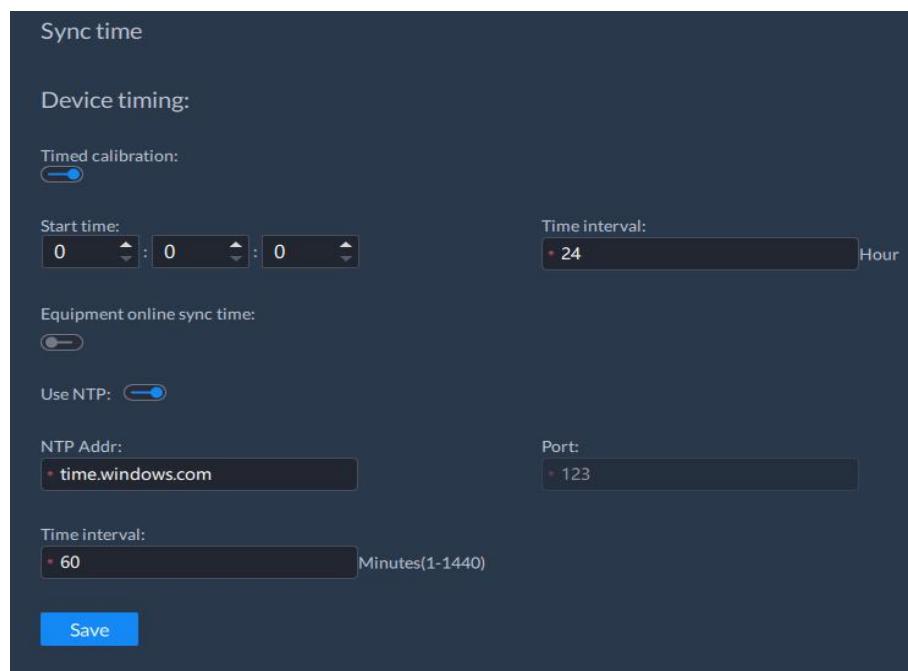


Table 6-1 Time Calibration Settings

Time Calibration Method	Description
Timed calibration	Turn on the "Timed calibration" switch. After the start time is reached, the time of the server and the device is regularly synchronized according to the interval time, based on the server time.
Start time	
Time interval	
Time calibration upon online	Turn on the "Equipment online sync time" switch. When the device goes online, the time calibration is automatically executed. The time of the server and the connected device is synchronized based on the server time.

NTP time calibration	When there is an NTP server in the network, open the "Use NTP" switch, and the system automatically synchronizes the NTP server time according to the set period.
----------------------	---

Step 4 Click Save.

6.2.3 Mail Server Settings

After setting the mailbox server information, the platform can send an email to a specified user when setting up alarm linkage or processing alarm on the client.

- Step 1 Log in to the client, click  on the "Home" screen, and in the "System Configuration" area, select "System Parameters".
- Step 2 Click the Email Server Configuration page tab.
- Step 3 Click  to enable the mailbox and set the mailbox parameters.

Figure 6-4 Mail Server Configuration

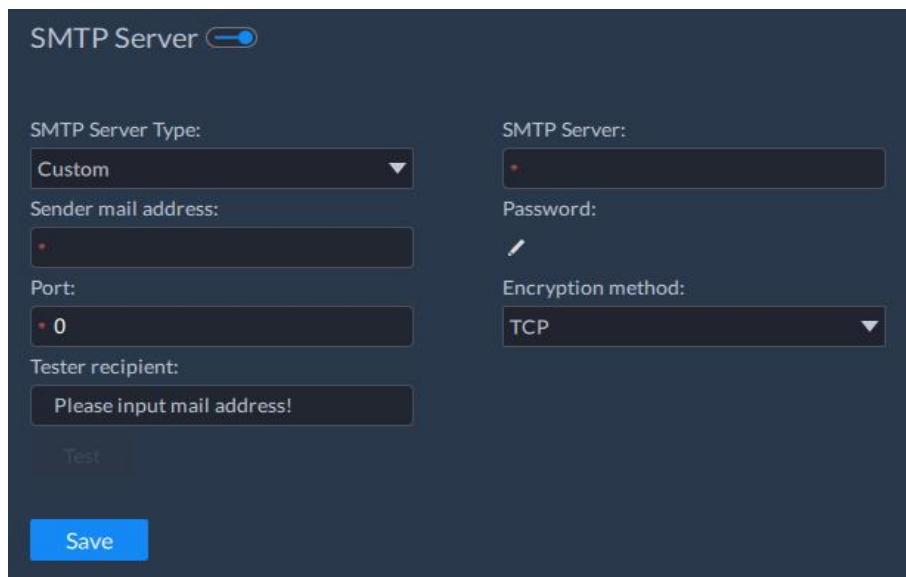


Table 6-2 Email Server Configuration Parameters Description

Parameter	Description
SMTP Server Type	Select the type of SMTP server to which you want to connect. The types of SMTP servers that you can connect to include Yahoo, Gmail, Hotmail, and user-defined ones.
Sender email address	The sender who is displayed when the platform sends an email out.
SMTP server	The IP address, password, and port number of the SMTP server to which you are connected.
Password	

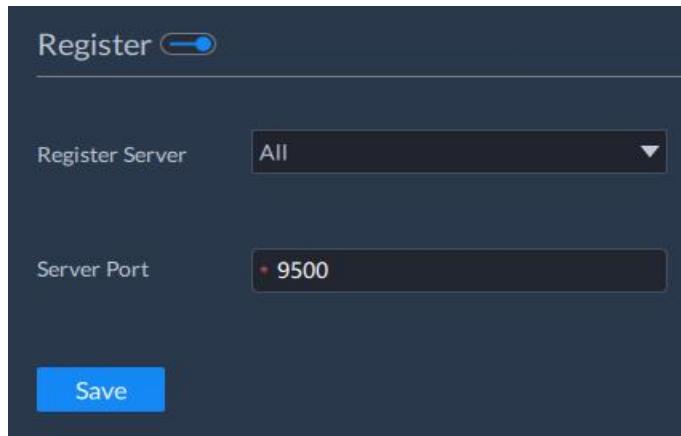
Port	
Tester recipient	Set the recipient and click "Test Mail" to test whether the mailbox is available.
Test	
Encryption Method	Supports TCP, TLS or SSL encryption to send mail.

Step 4 Click Save.

6.2.4 Active Registration Server Settings

- Step 1 Log in to the client, click  on the "Home" screen, and in the "System Setting" area, select "System Parameters".
- Step 2 Click the "Register" TAB.
- Step 3 Click  to enable active registration and set the active registration server.

Figure 6-5 Active Registration Server Setup



Step 4 Click Save.

6.3 Backup and Restore

The platform supports the backup and storage of configured information on local PC or server. At the same time, it supports the restoration of the system through backup files to facilitate system maintenance and ensure system security.

6.3.1 Backup

To ensure the security of user data, the platform provides a data backup function to save system data on the local or server.

Backup methods include:

- Manual backup

Perform the backup action manually, and the platform will immediately back up the current system data to the local storage.

- automatic backup

The platform automatically performs backup operations at the set time to back up system data and save it to the installation path of the server platform.

Step 1 Log in to the client, click  on the "Home" screen, and in the "System Setting" area, select "Backup and Restore".

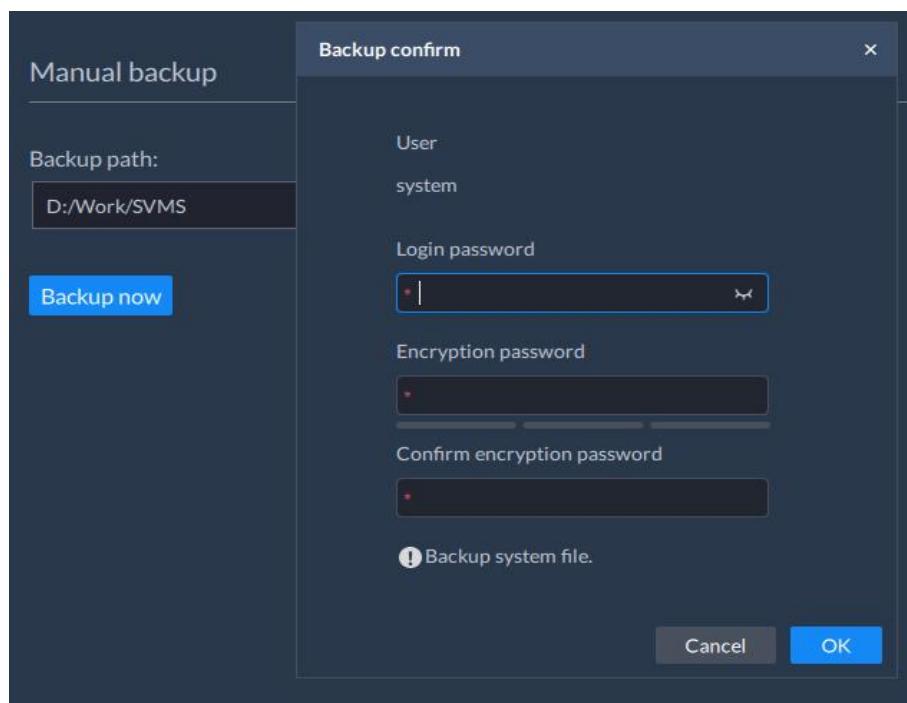
Step 2 Click the Backup TAB.

Step 3 Backup data.

- Manual backup: Select the backup path in the "manual backup" area, click "backup now", enter the password according to the interface prompt, and confirm the backup.

The password is the system account login password. The encrypted password is used to verify the encrypted password when using the backup file to ensure the security of the backup file.

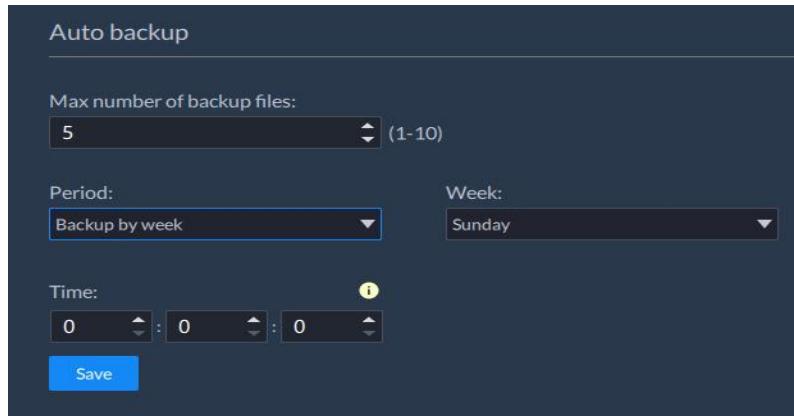
Figure 6-6 Manual Backup



- Auto backup: In the "Auto Backup" area, set the backup parameters, click "Save", enter the password according to the interface prompt, and confirm the backup.

Maximum backup number is the maximum number of backup files to be saved in the backup path. The platform automatically backs up files to the server according to the selected period and time (which can be set between 0:00 and 3:00 a.m.). The default backup path is the service installation directory.

Figure 6-7 Auto Backup



6.3.2 Restore

In case of abnormal user database, the system can use the system restoration function to restore the data to the time point of the last backup, which can quickly restore the user's system and reduce the loss of users. The restoration methods include:

- Restore from local backup file
If the backup file has been obtained, the system supports importing the file and restoring data to the state at the time of backup.
- If the file has been backed up to the server, you can select the backup file on the server and restore data to the state at the time of backup.



ATTENTION

- When executing system restoration, other users need to stop using the platform.
- The restoration operation will change the platform data, please use with caution.

Step 1 Log in to the client, click on the "Home" interface, and select "Backup and Restore" in the "System Setting" area.

Step 2 Click the Restore TAB.

Step 3 Restore data.

- Restore from local backup file: In the "Restore from local backup file" area, select the restore file, click "Restore now", enter the password, and click OK.

The password is the system account password. The encrypted password is the encrypted password set when the backup file is created. The data is restored successfully and the platform restarts automatically.

- Restore from server file: In the "Restore from backup file" area, select the backup file, enter the password, and click OK.

The password is the system account password. The encrypted password is the encrypted password set when backing up the file. Data restoration is successful and the platform automatically restarts.

7 Management

Log in to the client and, in the "Home" area of the "Management" section, you can manage the client to download pictures, videos, log information, help information, and local Settings.

Figure 7-1 Administrative Operation

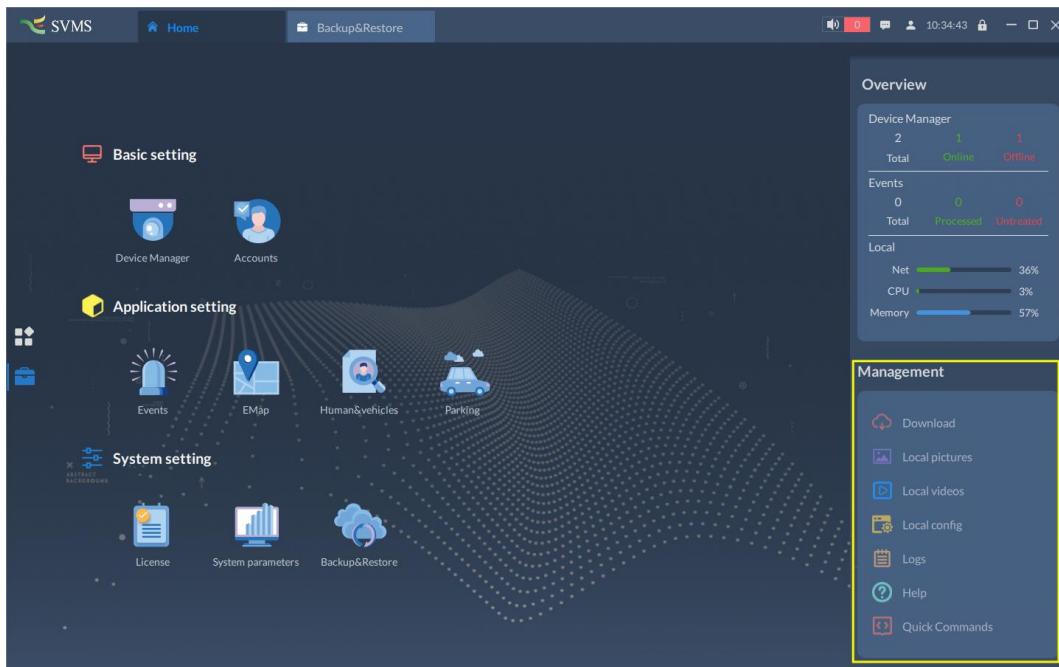


Table 7-1 Operation Instructions

Operate	Explanation
Download	Download the video at the specified channel and time.
Local pictures	Enter the local image download and save path to support the management of downloaded images.
Local videos	Enter the local video download and save path to support the management of downloaded videos.
Local config	Set the local configuration of the client, including basic Settings, video Settings, playback Settings, screenshot Settings, recording Settings, alarm, TV wall, security, shortcut Settings, etc. All Settings are only effective for the current client. For details, please refer to " 7.3 Local Configuration ".
Logs	Query and export operator logs and device logs. For details, see " 7.4.1 Operation Logs ".
Help	Check the instructions.

7.1 Download Recordings

The platform supports downloading recordings from servers or devices to the local area.

Download in one of the following three ways.

- Timeline Cut Download: Download a video file for a certain period of time.
- File list download: During the query time, the system lists the dynamic inspection video files or timed video files from the time when there is a video.
- Tagged video download: If the video has been tagged, the system supports downloading the video for a period of time before and after the tagged time point.

Step 1 Log in to the client and click Download Center in the Management area of the Home page.

Step 2 Set the query conditions and click Search.

Step 3 Select Download video.



INSTRUCTION

The login password is required by default when downloading.

- Download by cutting the timeline

Click the "Time axis" TAB and drag the mouse on the video timeline to select the start and end times of the video.

- Select the tag to record and download

Click the "Label" TAB, click the behind the video, or select File and click "Download the selected tag video".

- Select file download

Click the "File List" TAB, click the file list, or select a file and click to download the selected file.

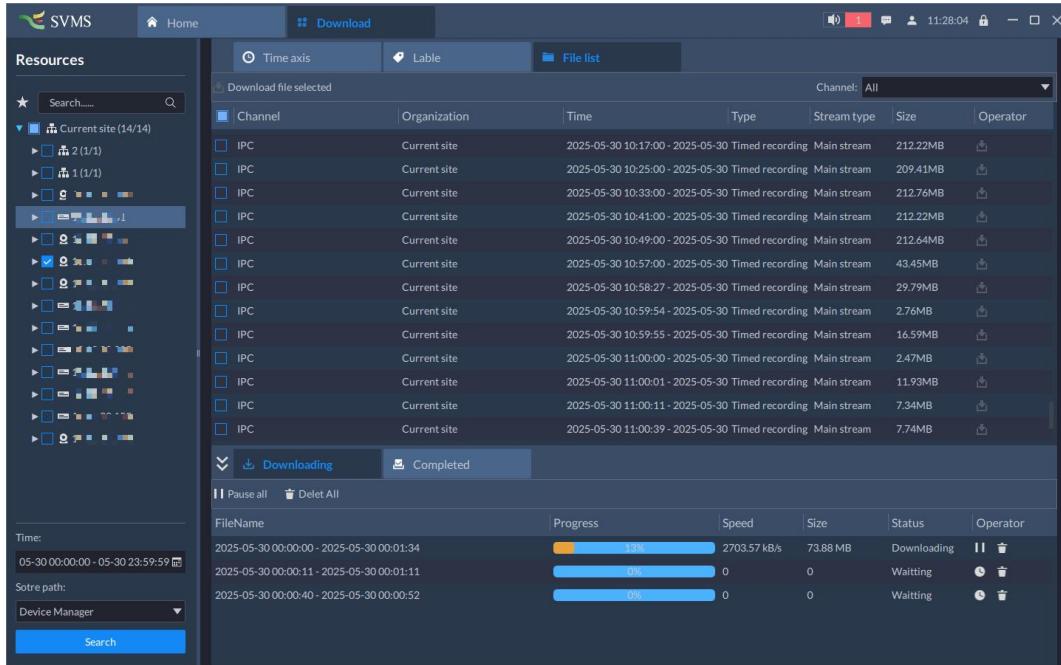
Step 4 Click OK.

- Timeline download: You can adjust the start time of downloading the video.
- File download: Supports downloading multiple files at the same time.
- Tag download: The recording time before and after the tag can be adjusted, in minutes or seconds.

Associative Operation

- Pause, resume and delete download tasks are supported during the download process.

Figure 7-2 Download Progress



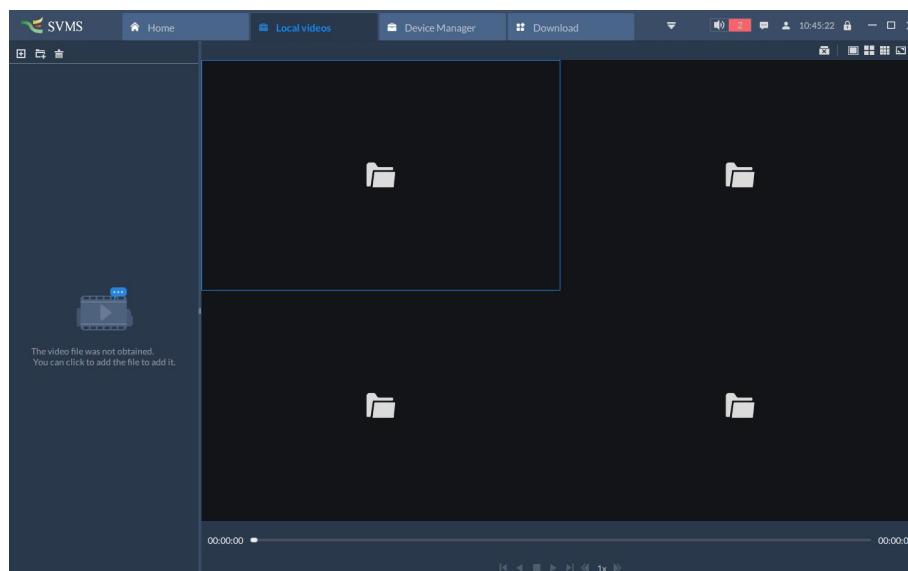
- After the download is successful, click in the prompt message at the upper right corner to jump to the video save path, or click to play directly in "Local Videos". For detailed instructions, please refer to "7.2 Playing Local Videos".

7.2 Play Local Videos

The platform supports playing local videos.

Step 1 Log in to the client and click Local Video in the Management area of the Home page.

Figure 7-3 Local Video



Step 2 Click to select one or more video files, or click to import all video files in a folder.

Figure 7-4 Play List



Step 3 Drag the video file to the right window or double-click to play.

INSTRUCTION

Click to select video file in the video window to play directly in the current window.

Associative Operation

Table 7-2 Interface Operation Instructions

Icon/Function	Explanation
Right-click menu	<ul style="list-style-type: none"> Continuous capture: Save the image in the current video window as an image file. The system captures two images at a time by default. Video adjustment: Adjust the brightness, contrast, saturation and tone of the video picture to make the video picture effect optimal. Electronic zoom: After clicking, click the screen and hold down the area you want to zoom in on. Right-click and click "Electronic Zoom" to exit the zoom.
	Close all preview windows.
	Divide the screen into multiple Windows to play multiple videos simultaneously. You can also play a video in full screen.
	Save the image in the current video window as an image file (one at a time). The image is saved by default in the client installation path "..\capture". For details on how to change the save path, see " 7.3.4 File Save Settings ".
	Click the icon to close the video.
	Stop/pause playback of video.

	Play video in reverse order.
	Single frame playback / single frame rollback.
	Accelerate / slow down playback, up to 64 times faster / slower.

7.3 Local Configuration

Set the local configuration of the client, including basic Settings, video Settings, playback Settings, screenshot Settings, video recording Settings, alarm, shortcut key Settings, etc. All Settings are only effective for the current client.



To restore the default configuration of the client, click "Default" and restart the client according to the system prompt.

7.3.1 General Parameter Settings

Set client size, client lock and other information.

- Step 1 Log in to the client, on the Home page interface, in the Management area, click "Local Config".
- Step 2 Click the "Currency" TAB to set general parameters.

Figure 7-5 Configure General Parameters

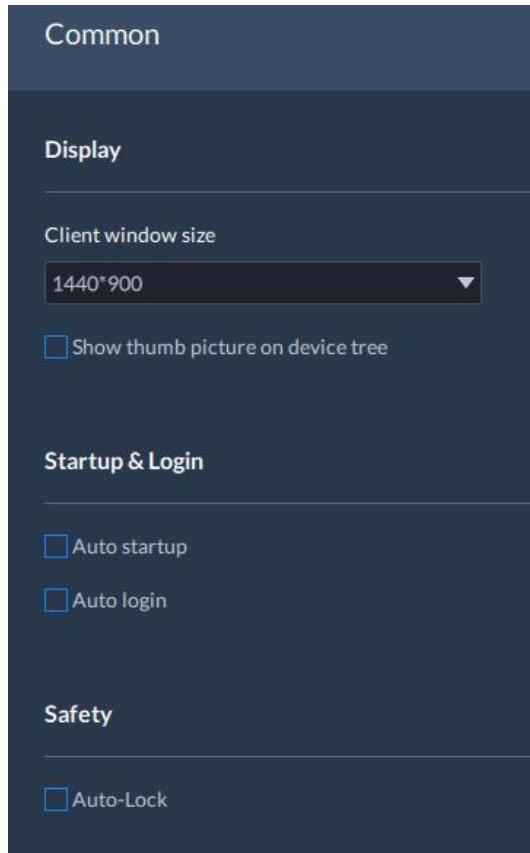


Table 7-3 Parameter Description

Parameter	Description
Client window size	Select the appropriate resolution for the client based on the PC display.
Show thumb picture on device tree	In the application of the monitoring center, when the mouse moves to a channel on the device tree, a thumbnail of the video capture of that channel is displayed.
Auto Setup	<ul style="list-style-type: none"> ● If you have selected "Remember password" in the login interface during this login, select "Auto Setup", and then restart the PC, the system will automatically log in to the client. ● If you do not select "Remember password" in the login interface during this login, select "Auto Setup", and restart the PC, the system displays the client login interface.
Auto login	<ul style="list-style-type: none"> ● If you have selected "Remember password" in the login interface during this login, select "Auto login", exit the client and log in again, and the system will automatically log in. ● If you do not select "Remember password" in the login interface during this login, select "Auto login", exit the client and log in again. The login interface will default to "Remember password" and "Auto login", but you still need to enter the password authentication to log in.
Auto-lock	<p>If no operation time exceeds the set time after logging in to the platform, the client will be automatically locked and no operation can be performed. Click "Click to unlock" to unlock the current login account after verifying the password.</p> <div style="display: flex; align-items: center;">  INSTRUCTION </div> <p>The maximum setting is 60 minutes.</p>

Step 3 Click Save.

7.3.2 Video Parameter Settings

Set the video window segmentation mode of the real-time preview interface, the type of video bit stream and playback mode of the real-time preview, and the playback duration of the instant replay.

Step 1 Log in to the client, on the Home page interface, in the Management area, click Local Configuration.

Step 2 Click the "Video" TAB to set video related parameters.

Figure 7-6 Video Parameter Configuration

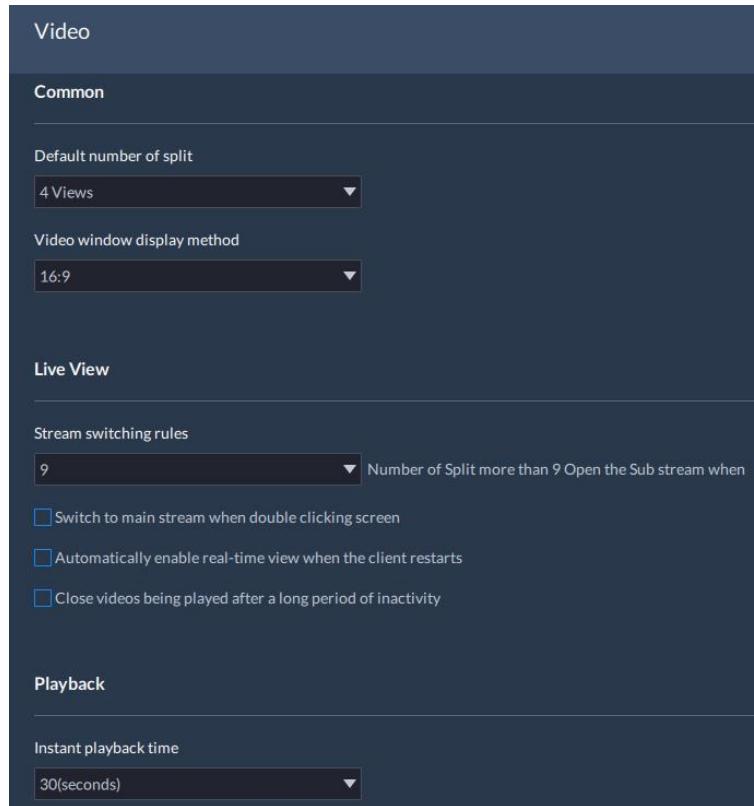


Table 7-4 Parameter Description

Parameter	Description
Default number of split	Set the number of screen divisions in the "Monitoring Center" interface, which takes effect immediately after setting. Even if you adjust the number of screen divisions in the "Monitoring Center" interface during real-time preview, it will remain the same when you close and open it again.
Video window display method	Select "Original", "Full screen", "4:3" or "16:9" to display the video.
Stream switching rules	The default real-time preview is opened as the main stream. When the number of video window segments is greater than the set value, the auxiliary stream is automatically opened.
Switch to main stream when double clicking screen	When the real-time preview window is in the auxiliary stream playback, the system automatically switches to the main stream when maximizing the window. Double-click the restore window again, and the system will automatically switch back to the auxiliary stream. 📖 INSTRUCTION When the number of window segments is greater than 9, the preview window is

	maximized. If the original auxiliary stream is played, it automatically switches to the main stream.
Automatically enable real-time view when the client restarts	Restart the client to automatically open the live video preview.
Close video being played after a long period of inactivity	If the preview interface is not operated for a longer time than the set value, the system will automatically close the preview. The maximum support is 30 minutes.
Inactivity time	
Instant playback time	In the "Live Preview" interface, click  to view the video set for the duration. The duration can be customized. For example, if you set 30s, the video will be played back for the first 30s.
Search Type of Device Video Stream	The type of bitstream that is opened by default when recording a video playback.  INSTRUCTION If you select "only auxiliary stream 2" but the device does not support auxiliary stream 2, the recording of auxiliary stream 1 is returned.
Same Stream Type as Video Preview	When switching from preview to playback, the playback stream is consistent with the real-time stream.  INSTRUCTION If the window is a real-time preview of the main stream, switching to the playback interface will automatically play the main stream video of the same channel.
Interval	Set the capture frequency and total number of consecutive captures. For example, set the "Interval between consecutive captures" to 10 and the "Number of consecutive captures" to 4. In the "Live Preview" and "Record Playback" interfaces, right-click and select "Consecutive Capture." The system will capture 4 consecutive images, with a time interval of 10 seconds between each pair of captures.
Number of consecutive captured images	

Step 3 Click Save.

7.3.3 Alarm Parameter Settings

Set the alarm type and alarm prompt method that respond to the client, and the alarm related video opening mode and other information.

- Step 1 Log in to the client, on the Home page interface, in the Management area, click Local Configuration.
- Step 2 Click the "Alarm" TAB to set the alarm parameters of the client.

Figure 7-7 Alarm Parameters

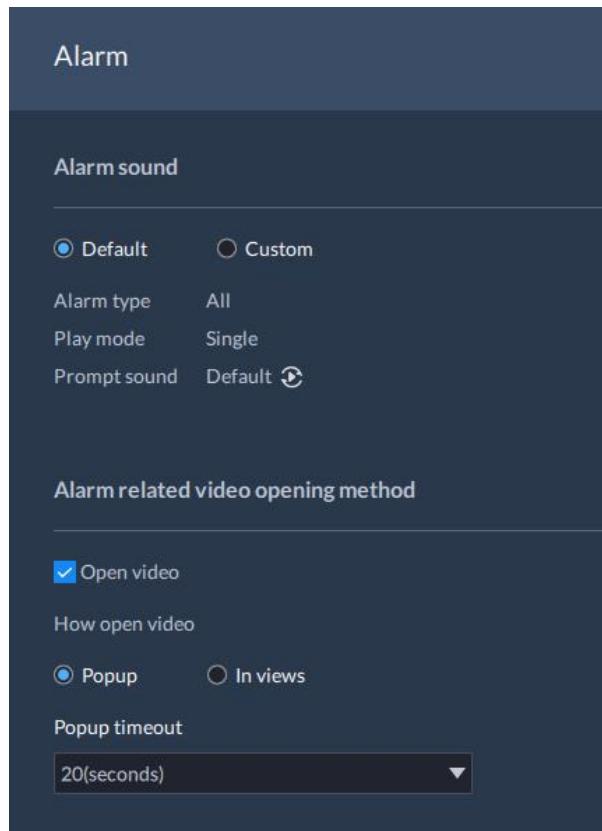


Table 7-5 Parameter Description

Parameter	Description
Default	All alarm types use the same tone.
Custom	Click "Modify alarm sound" to modify the sound and play mode of all alarm types.
Alarm related video opening method	When an alarm occurs, open the real-time preview of the associated channel. The video playback mode supports pop-up playback or opening in the preview interface.
How to open the video	<p> INSTRUCTION</p> <p>When configuring an event, you need to enable "Open the camera video on the client when the alarm is triggered" so that the platform will open the real-time preview of</p>

	the channel. For more details, please refer to "4.1 Set Event".
Flash device icon on map	When an alarm occurs, the map location flashes. The alarm types include video point and alarm input channel.
Alarm type	

Step 3 Click Save.

7.3.4 File Save Settings

Set parameters such as the save path and naming rules for videos and images.

- Step 1 Log in to the client, on the Home page interface, in the Management area, click Local Configuration.
- Step 2 Click the File Save TAB to set file save parameters.

Figure 7-8 File Save Parameters

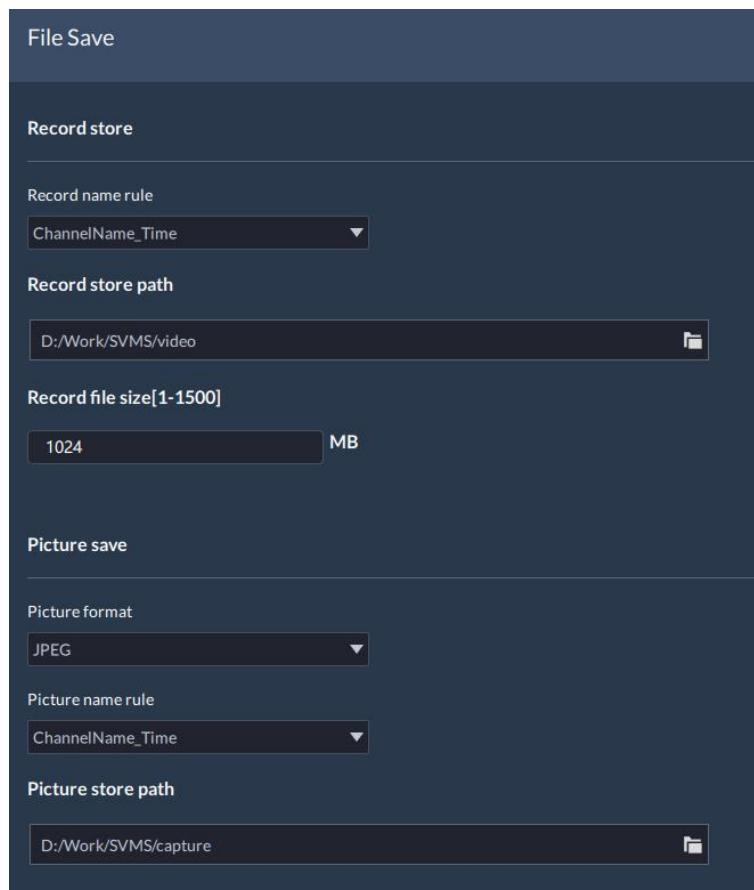


Table 7-6 Parameter Description

Parameter	Description
Record naming rules	Set the save path, naming rules, and size of individual video files when recording manually in the "Live View" and "Playback" interfaces.
Record store path	

Record file size	
Picture format	
Picture name rules	When setting up real-time preview and video playback, capture the image format, naming rules, and save path.
Picture store path	

Step 3 Click Save.

7.3.5 View Shortcuts

See the shortcut keys for Quick Action Client.

Step 1 Log in to the client, on the Home page interface, in the Management area, click Local Settings.

Step 2 Click the "Shortcut keys" TAB to view the shortcut keys on the PC keyboard.

Figure 7-9 Keyboard Shortcuts

Shortcut keys	
Function Name	Shortcut keys
Move UP	Up
Move Down	Down
Move Left	Left
Move Right	Right
PTZ	W/A/S/D
Aperture-	Insert
Aperture+	Delete
Focus-	Home
Focus+	End
ZoomIn	PgUp
ZoomOut	PgDn
Open Single Window	Enter
Close Single Window	Enter
Open Full Screen	Ctrl+F
Exit fullscreen	Esc
Pause/Continue Tour	Ctrl+T
Lock Client	Ctrl+L
Single Window Snapshot	P
One-click Snapshot	Ctrl+P
Local record	Ctrl+R
Group Talk	F2
Preset 1	1

7.4 Log Management

Supports viewing operator logs and device logs, which are generally used to locate problems.

7.4.1 Operation Logs

View and export the log information recording the platform operations.

-
- Step 1 Log in to the client, and in the "Management" area of the "Home" interface, click "Logs".
 - Step 2 Click .
 - Step 3 Click , select the type of log to be queried.
 - Step 4 Set the query time and keywords, and click "Search". The system returns the query results.
 - Step 5 Click "Export", and then open or save the log compressed package according to the interface prompts.

7.4.2 Device Logs

View and export the logs of the added devices.

- Step 1 Log in to the client, and in the "Management" area of the "Home" interface, click "Logs".
- Step 2 Click .
- Step 3 Select the device and time to be queried, and click "Search". The query results will be displayed on the interface.
- Step 4 Click "Export", and then open or save the log compressed package according to the interface prompts.

Appendix 1 Legal Notice

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If you install our product, you may collect personal information such as faces and license plates. During the use of the product, you need to comply with the privacy protection laws and regulations of your region or country to protect the legitimate rights and interests of others. For example, provide clear and visible signage to inform relevant right holders of the existence of video surveillance areas and provide corresponding contact information.

About This Document

- This document applies to multiple product models. For the appearance and functions of the products, please refer to the actual items.
- If any loss is caused by not following the instructions in this document, the user shall bear the responsibility independently.
- Our company reserves the right to modify any information in this document at any time. Revisions will be incorporated into new versions of this document without prior notice.
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Appendix 2 Network Security Statement and Recommendations

Security Statement

- If you connect the product to the Internet, you assume all risks, including but not limited to potential network attacks, hacking, or virus infections. You are advised to strengthen the protection of network, platform data, and personal information, and take necessary measures to ensure platform network security, such as using complex passwords, regularly changing passwords, and promptly updating platform products to the latest versions. Our company shall not be liable for any issues such as abnormal product operation or information leakage caused by such risks, although we will provide product-related security maintenance.
- To the extent not expressly prohibited by applicable law, our company, its employees, licensors, or affiliates shall not be liable under any theory of liability (contract, tort, negligence, or otherwise) for any loss of profits, revenue, sales, data, or costs of procuring substitute goods or services, property damage, personal injury, business interruption, loss of business information, or any special, direct, indirect, incidental, economic, covering, punitive, or consequential damages arising out of or in connection with the use or inability to use the product or service, even if advised of the possibility of such damages. In some jurisdictions, limitations on liability for personal injury, incidental, or consequential damages are not permitted, so these limitations may not apply to you.
- Our company's total liability for all damages to you (except for cases of personal injury or death caused by our company's negligence, which shall comply with applicable legal provisions) shall not exceed the purchase price you paid for our company's products.

Security Recommendations

Essential Measures to Ensure Basic Network Security of the Platform:

1. Use complex passwords

Please refer to the following suggestions for password setting:

The length shall not be less than 8 characters.

- Include at least two types of characters, which include uppercase and lowercase letters, numbers, and symbols.
- Do not contain the account name or the reverse order of the account name.
- Do not use overlapping characters, such as 111, aaa, etc.

2. Custom security question answers

The setting of security questions should ensure the diversity of answers. Select different questions and customize different answers (it is forbidden to set the same answer for all questions) to reduce the risk of security questions being guessed or cracked.

Suggested Measures to Enhance Platform Network Security:

1. Activate account binding with IP/MAC

It is recommended that you enable the account-bound IP/MAC mechanism and configure the IP/MAC addresses of the terminals where your commonly used clients are located as white lists to further enhance the security of access.

2. Regularly change passwords.

It is recommended that you change your password regularly to reduce the risk of it being guessed or cracked.

3. Reasonably allocate accounts and permissions.

According to business and management needs, add users reasonably and allocate the minimum permission set for them reasonably.

4. Turn off unnecessary services.

If not necessary, it is recommended that you disable services such as NetBIOS (ports 137, 138, and 139), SMB (port 445), and Remote Desktop (port 3389) under Windows, as well as Telnet (port 23) and SSH (port 22) under Linux. At the same time, close the database port externally or only open it to specific IP addresses, such as MySQL (port 3306), to reduce the risks faced by the platform.

5. Patch the operating system and third-party components.

It is recommended that you regularly check for security vulnerabilities in the operating system and third-party components, and promptly apply the patches released by the official.

6. Security Audit

- Check online users: It is recommended that you check online users irregularly to identify if there are any illegal users logging in.
- Check the device logs: By checking the logs, one can obtain the IP information of the device attempting to log in, as well as the key operation information of the logged-in users.

7. Establish a secure network environment

To better ensure the security of the equipment and reduce the risks of network security, we suggest that you:

- Adhere to the principle of minimum necessity, restrict the ports that the platform maps externally through firewalls or routers, etc., and only map the ports that are essential for the business.
- According to the actual network requirements, the network should be divided and isolated: If there is no communication need between two subnets, it is recommended to use methods such as vlans and network gateways to divide the network and achieve the effect of network isolation.