V1.0.1

X Station

User's Manual

Foreword

General

This manual introduces the functions and operations of X Station (hereinafter referred to as "the Platform"). Read carefully before using the platform, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
TIPS	Provides methods to help you solve a problem or save time.
NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.1	Updated UI.	January 2024
V1.0.0	First release.	August 2023

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.

- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

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1 Introduction

The Platform is used with cameras, aiming to provide system support for video monitoring and other services in small and medium-sized scenes.

This manual mainly introduces how to add devices, change IP, query log and perform other operations on this platform. It also introduces the general configurations and functions of monitor solution.

2 Initialization and Login

2.1 Installation

Contact technical support to get the software package of the X Station, and then install and run the Platform according to on-screen instructions.

2.2 Initialization

Initialize the platform for the first-time use.

Procedure

Step 1 Double-click X Station.exe, and then install it according to the on-screen instructions.

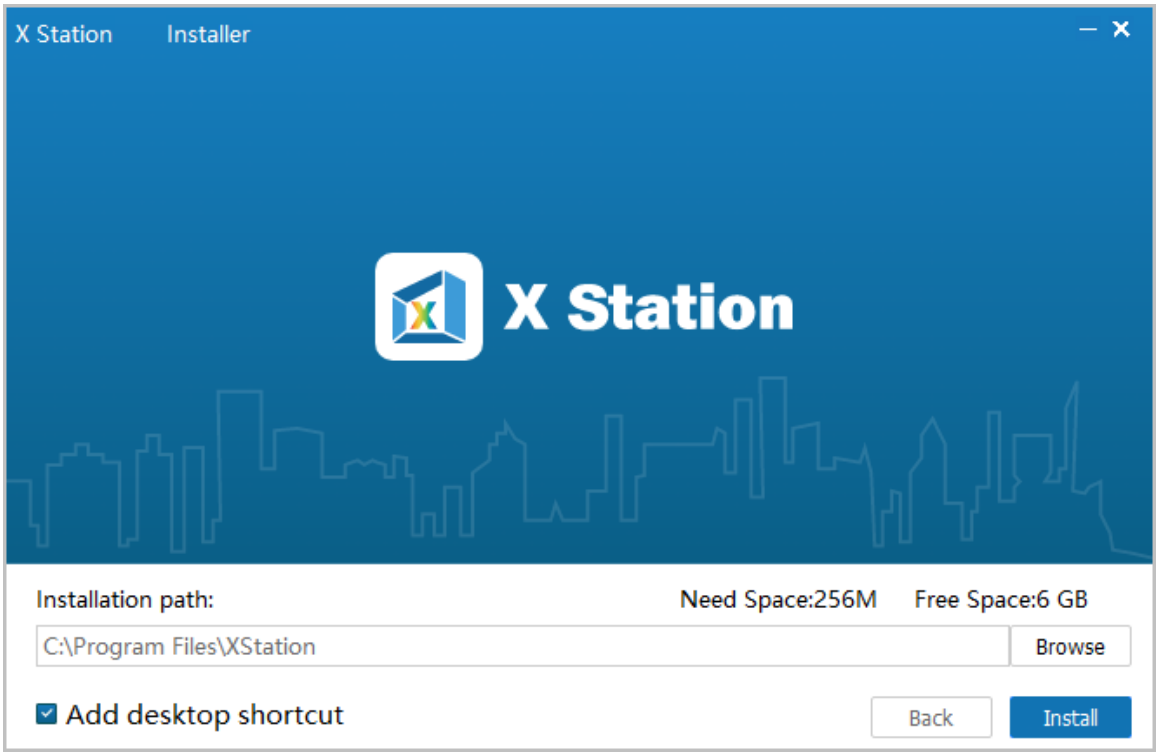
Step 2 Click **Software agreement** to read the software agreement, and then click **Next**.

Step 3 Select **I have read and agree the software agreement** , and then click **Next**.

Step 4 Click **Browse** to select installation path, and then click **Install**.

- The installation path cannot contain Chinese characters.
- Select **Add desktop shortcut** to add a client shortcut to the local desktop.

Figure 2-1 Select installation path



Step 5 Click **Finish**.

Step 6 Read software license agreement, and then click **Agree**.

Step 7 Read the product privacy policy, and then click **Agree**.

Step 8 Enter and confirm password, and then click **Next**.

- The password must consist of 8 to 32 non-blank characters and contain at least 2 types of characters among uppercase, lowercase, number, and special character (excluding ' " ; : &).
- We recommend you set a strong password according to the password strength prompt.

Step 9 Set security questions, and then click **Finish**.

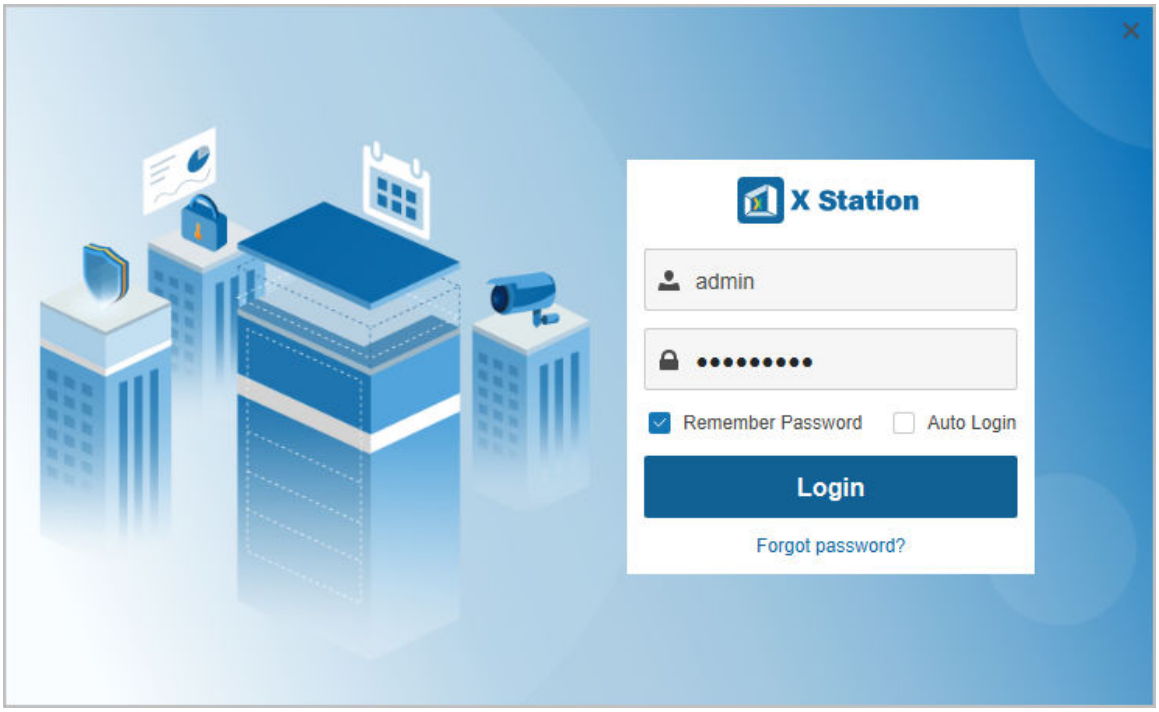
Please remember the answer of the security questions, which help reset your password when you forgot it.

2.3 Login

Procedure

Step 1 Enter the username and password, and then click **Login**.

Figure 2-2 Login



Click **Forgot password** to reset password when you forget your password. For details, see "2.4 Resetting Password".

2.4 Resetting Password

Reset your password when you forgot it.

Procedure

Step 1 On the login page, click **Forgot password**.

Step 2 Answer the security questions, and then click **Next**.

Step 3 Set a new password, and then click **OK**.

3 Home Page

Figure 3-1 Home page

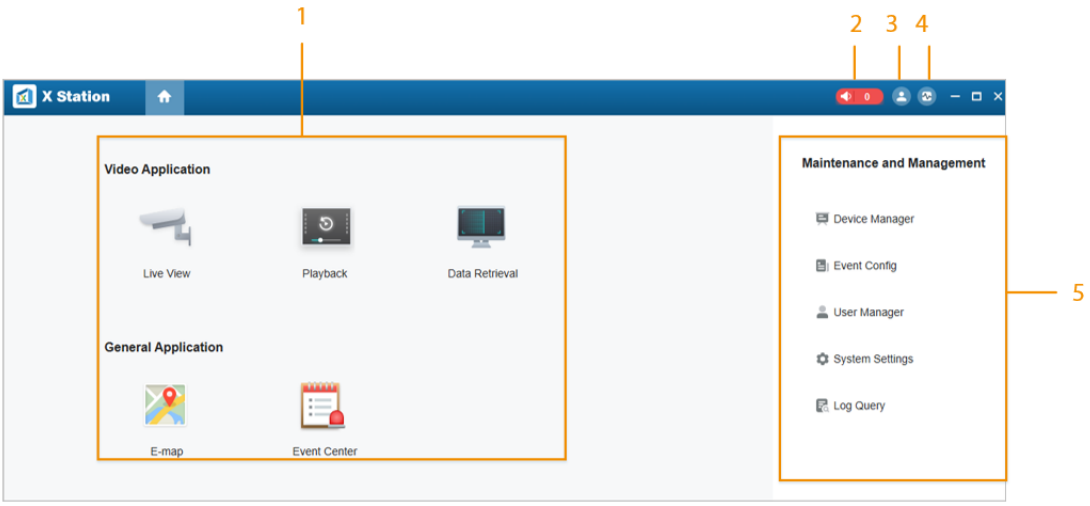


Table 3-1 Description of home page

No.	Parameter	Description
1	Application	View live videos, alarm events and more.
2	Alarm Event	Goes to the **Event Center** page. You can view and handle alarm events.
3	User management	• Lock Screen: Lock the screen. Enter the password of login account when you want to unlock. • Switch User: Log in with other accounts. • Help Manual: View the user's manual. • About: View the software version, license and more. Enable **Open Debugging Log** , the debugging logs will be saved to a local path for troubleshooting.
4	Performance	The CPU and RAM status of the platform.
5	Function Menus	Goes to the function menus to configure settings.

4 System Configuration

4.1 Basic Setting

Procedure

Step 1 On the home page, select **System Settings** > **Basic Setting**.

Step 2 Configure basic setting parameters.

Figure 4-1 Configure basic setting parameters

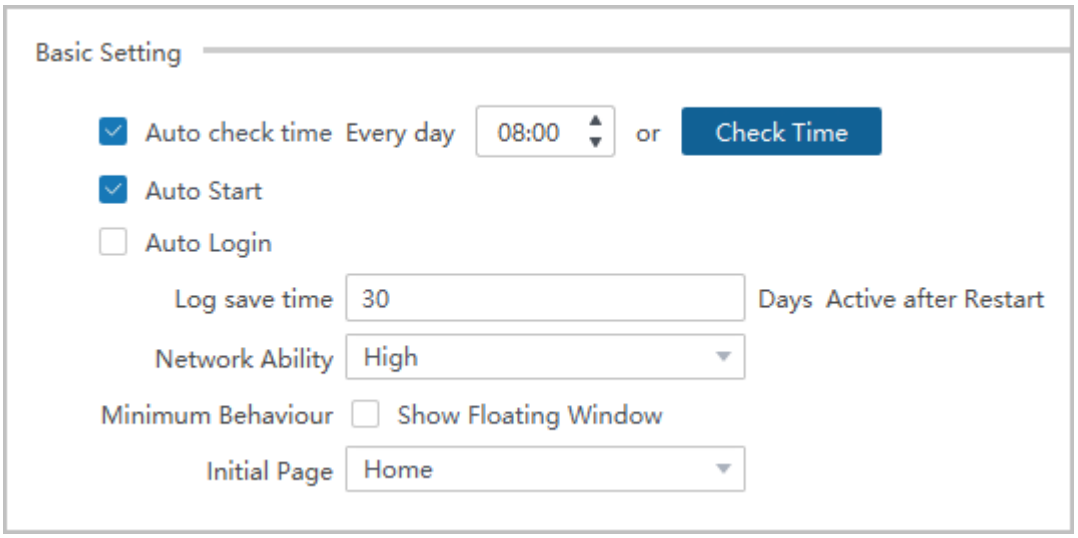


Table 4-1 Description of basic setting parameters

Parameters	Description
Auto Check Time Every day	Enable this function and set a time, the platform automatically checks time at the scheduled time.
Check Time	The platform checks time immediately.
Auto Start	The platform automatically starts after your computer is turned on.
Auto Login	Automatically log in to the platform.
Log save time	Set the log storage days. For example, set the save time to 30, and then logs of the last 30 days will be saved. The expired logs will be overwritten every time the platform starts.
Network Ability	Select the network ability according to your network stability. For example, if you have high network speed, we recommend you select **High**.
Minimum Behavior	Select **Show Floating Window**, and after the platform is minimized, will be displayed to prompt the number of triggered alarms.
Initial Page	The page is opened when the platform starts. • Home: The home page is displayed after the platform starts. • Resume last page: The most recently opened page will be displayed when the platform starts.

Step 3 Click **Apply**.

4.2 Monitor Setting

Configure default system type, instantly replay time, local record time and other functions.

Procedure

Step 1 Select **System Config** > **Monitor Setting**.

Step 2 Configure monitor settings.

Figure 4-2 Monitor setting

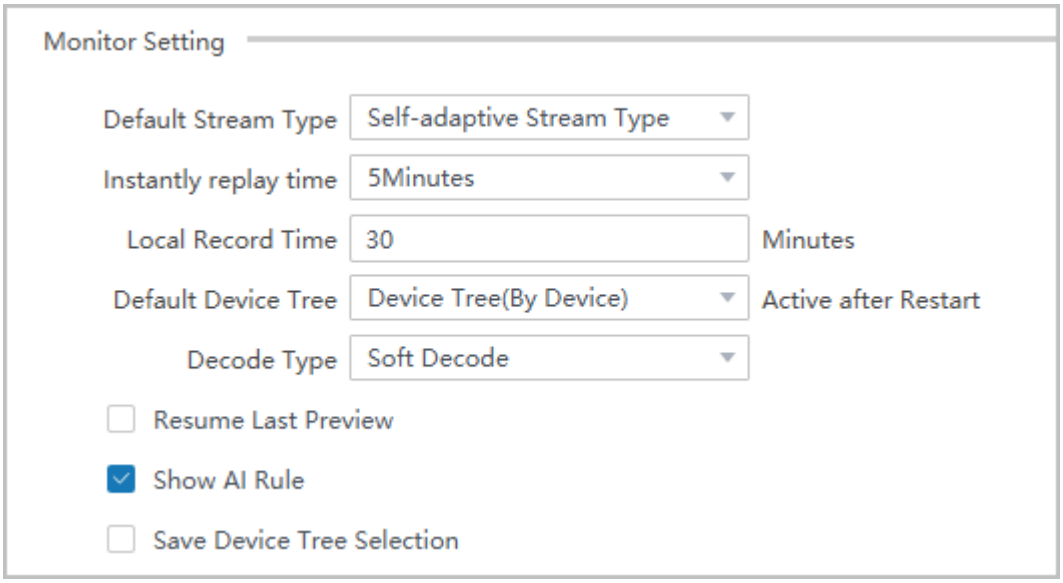


Table 4-2 Description of monitor setting parameters

Parameter	Description
Default Stream Type	Select a video streaming type.
Instantly replay time	Select the instantly playback time. For example, if the value is set to 5 minutes, the last 5 minutes of video will automatically begin to play back
Local Record Time	Select the video recording time. For example, if the value is set to 30 minutes, the system records the video for 30 minutes and then automatically saves the video in the default file path on the computer. The default path is \Data\User\Record.
Default Device Tree	• **Device Tree (By device)** : Displays devices in the organization tree. • **Region Tree (By Channel)** : Displays channels in the organization tree.
Decode Type	Hard decision decoding and soft decision decoding are two different methods used for decoding error-correcting codes. • **Soft Decode** : Decode through CPU. • **Hardware Decode** : Decode videos through graphics cards.
Resume Last Preview	The last preview automatically opens after the platform starts.

Parameter	Description
Show AI Rule	The Analytic bounding boxes will be displayed over the video being viewed.
Save Device Tree Selection	Keep devices remain selected in the device tree, even after you perform another device search.

Step 3 Click **Apply**.

4.3 Event Setting

Configure the alarm sound and email.

Procedure

Step 1 On the home page, select **System Settings** > **Event**.

Step 2 Configure event parameters.

Figure 4-3 Configure event parameters

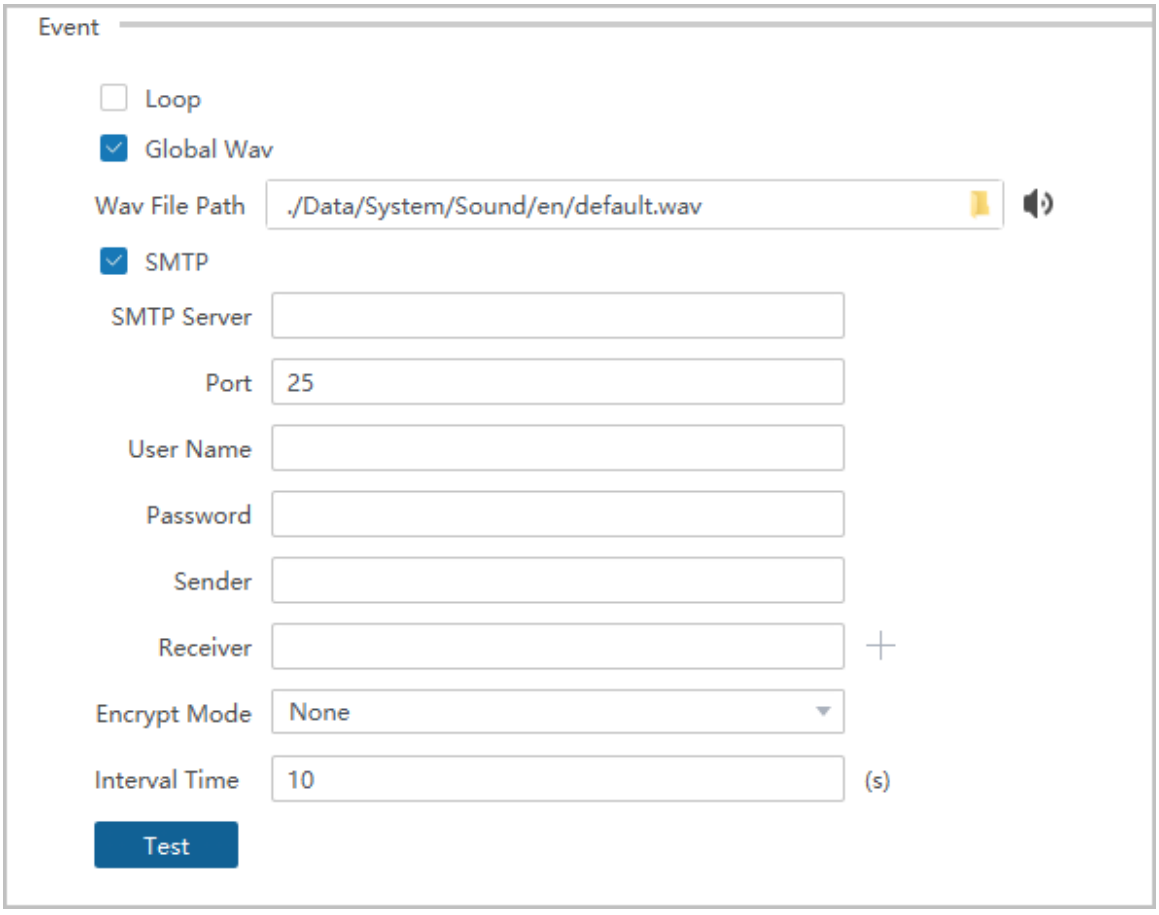


Table 4-3 Description of event setting parameters

Parameter	Description
Loop	The alarm sound will be played in a loop.

Parameter	Description
Global Wav	• Select **Global Wav** , and then select the sound file in the **Wav File Path**. The sound will be played after the corresponding event is triggered. • Do not select **Global Wav,** and then select the event type and sound type in the drop-down list or select the sound file in the **Wav File Path**. The sound will be played after the corresponding event is triggered.
SMTP	Enable SMTP function. 1. Enable SMTP function. 2. Enter the IP of the port number of the SMTP server. 3. Enter the username and password of the sender email. 4. Enter the email of the sender and the receiver. Supports up to 5 emails. 5. Select an encrypt mode and enter the interval time. The system automatically sends notifications through email at the set interval. The encryption protocol is used to keep data secure during transmission over a network. 6. You can click **Test** to send a test email to check whether it functions well.

Step 3 Click **Apply**.

4.4 Local Path

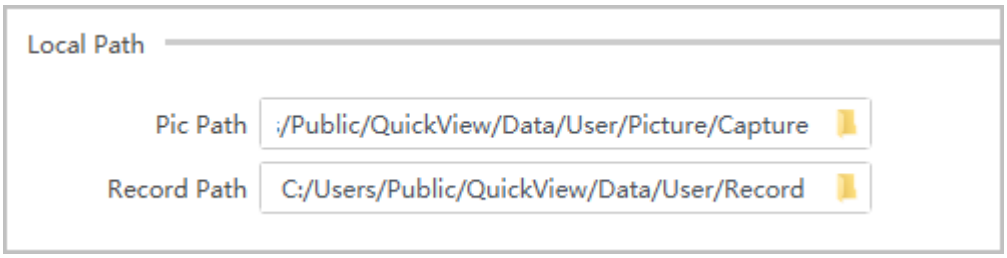
Set the storage file path of images and recorded videos.

Procedure

Step 1 Select **System Config** > **Local Path**.

Step 2 Set the local path.

Figure 4-4 Set local path



Step 3 Click **Apply**.

4.5 Data Management

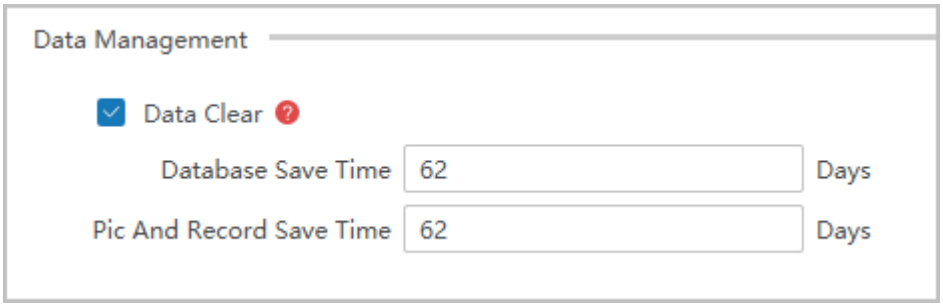
Procedure

Step 1 Select **System Settings** > **Data Management**.

Step 2 Enable the data clear function, and then configure the storage days of database, pictures and recorded videos.

The platform automatically clears them at 00:00 each day or when the software starts.

Figure 4-5 Configure data management parameters



Step 3 Click **Apply**.

4.6 Backing up and Restoring

Back up or restore platform configurations.

Procedure

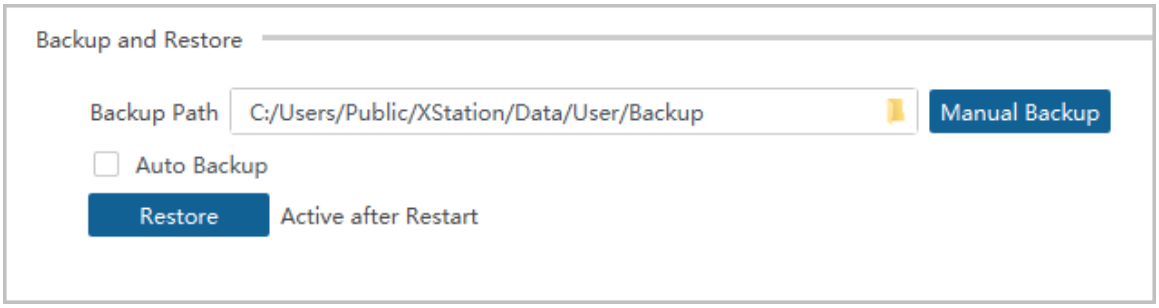
Step 1 Select **System Config** > **Backup and Restore**.

Step 2 Select a backup file path.

- Manual Backup: Click **Manual Backup** to manually back up configurations to the set file path.
- Auto Backup: Enable **Auto Backup**, the platform automatically backs up configurations to the set file path.

Step 3 Click **Restore**, and then select the backup file that you need.

Figure 4-6 Backup and restore



Step 4 Click **Apply**.

Table 4-4 Parameters description

Parameters	Description
Backup Path	Select a backup file path and click **Apply** to save changes. The configuration files will be stored at the defined file path.
Manual Backup	Manually back up configuration files to the set file path.
Auto Backup	Enable auto backup function, set the auto backup time, and then click **Apply**. The platform will automatically backs up configuration files to the set file path.
Restore	Upload the configuration files to the platform, the configurations will be applied to the platform after the it restarts.

5 Device Management

Support adding devices to the Platform. After the device is added, you can remotely configure and operate the device through the platform.

When using **Device Manger** function, please close X portal and other software. Otherwise, some functions will be affected. For example, when adding devices through **Auto Search**, some devices might not be searched.

5.1 Adding Device by Searching

Add devices in batches by searching for devices.

Background Information

- We recommend you add devices through searching when want to add multiple devices that are on the same network segment, or when you want to add devices with a known network segment but you do not know the exact IP address of the devices.
- Close X portal when you configure devices; otherwise, you may not be able to search for all devices.

Procedure

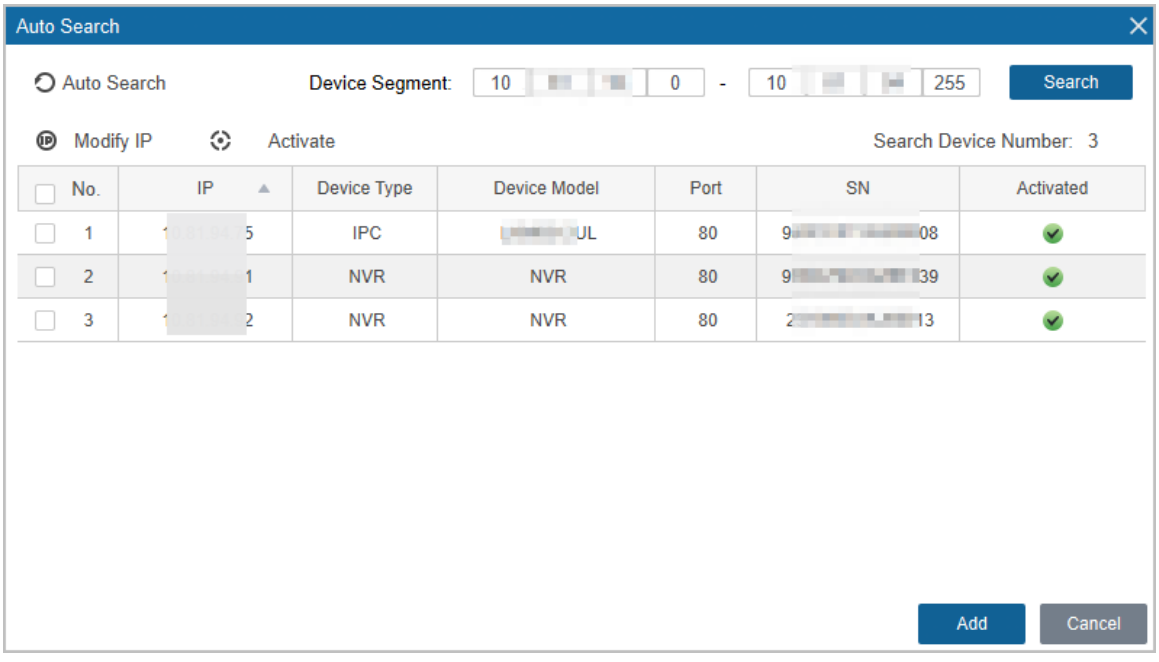
Step 1 On the home page, click **Device Manager**.

Step 2 Click **Auto Search**.

Step 3 Enter a IP range, and then click **Search**.

The system automatically searches for devices in this IP range. You can also click **Auto Search** to automatically search for devices on the same network your computer is connected to.

Figure 5-1 Search for devices



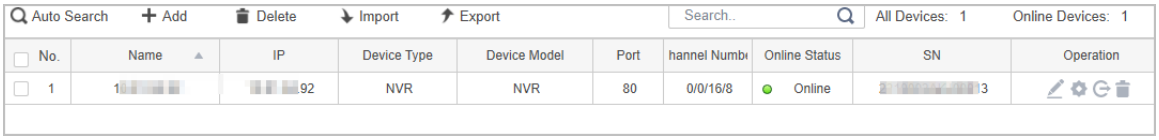
Step 4 Select devices, and then click **Add**.

Step 5 Enter the login username and password of the selected devices, and then click **OK**.

Step 6 Enter the login user name and password, and then click **OK**.

The devices will be added to the platform.

Figure 5-2 Added devices

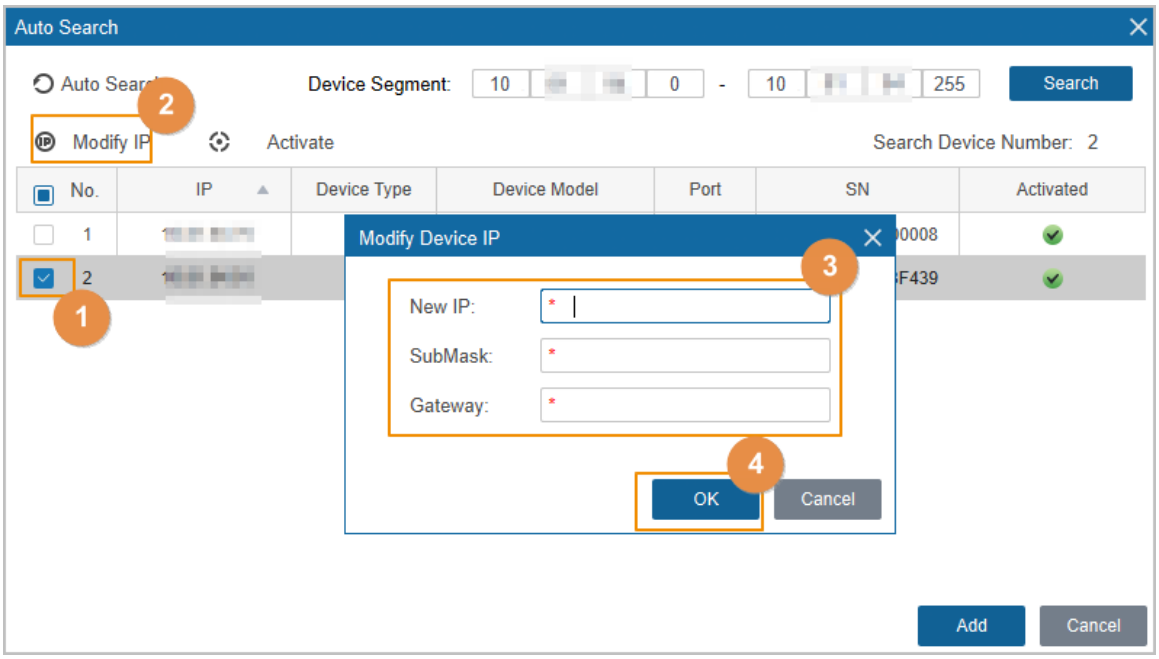


- : Change the information of the device.
- : Goes to the webpage of the device.
- : Log out of the device, and the status of the device will become **offline**.
- : Log in to the device, and the status of the device will become **Online**.
- : Delete the device.

Related Operations

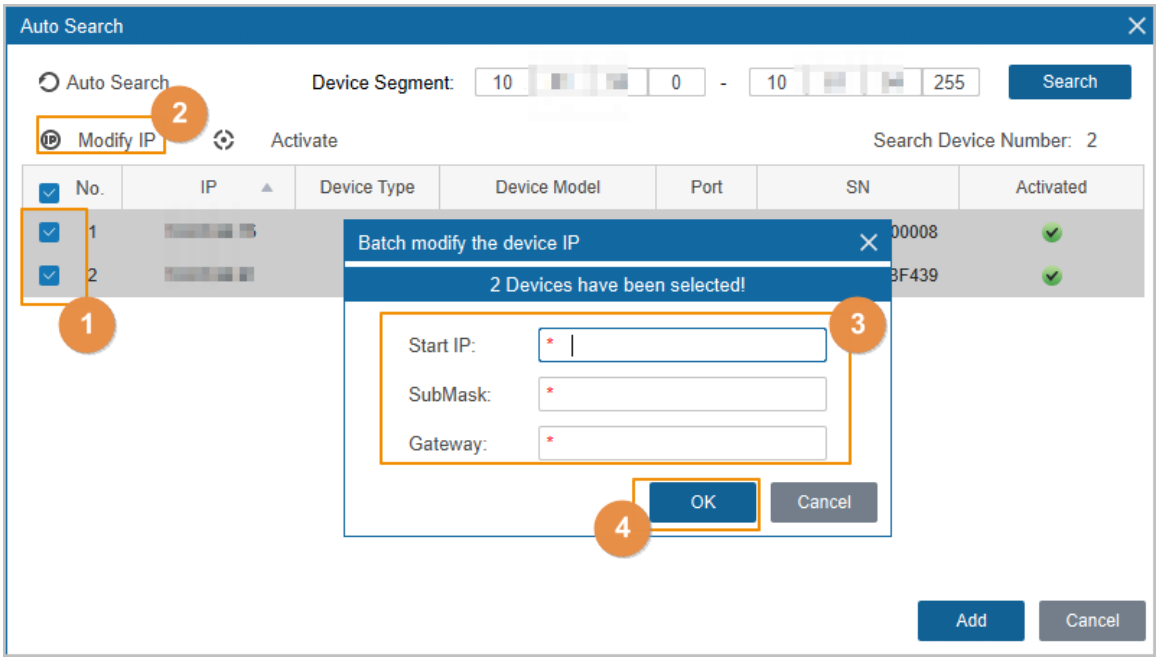
- Change IP one by one: Select a device, and then click **Modify IP** to change the IP of the device.

Figure 5-3 Change IP one by one



- Change IP in batches: Select multiple devices, and then click **Modify IP** to change their IP.

Figure 5-4 Change IP in batches



- Activate Devices:

  Only support activating devices which are on the same network segment to your computer.

  1. Select devices that are not activated, and then click **Activate**.
  2. Set password of the device, and then click **Next**.
  3. Bind an email address, and then click **Next**.
  4. Change the IP of the device, and then click **Finish**.

5.2 Adding Device One by One

If you already know the IP address of a device, you can manually add it to the platform.

Procedure

Step 1 On the home page, click **Device Manager**.

Step 2 Click **Add**, and then enter the device information.

Figure 5-5 Add devices through IP

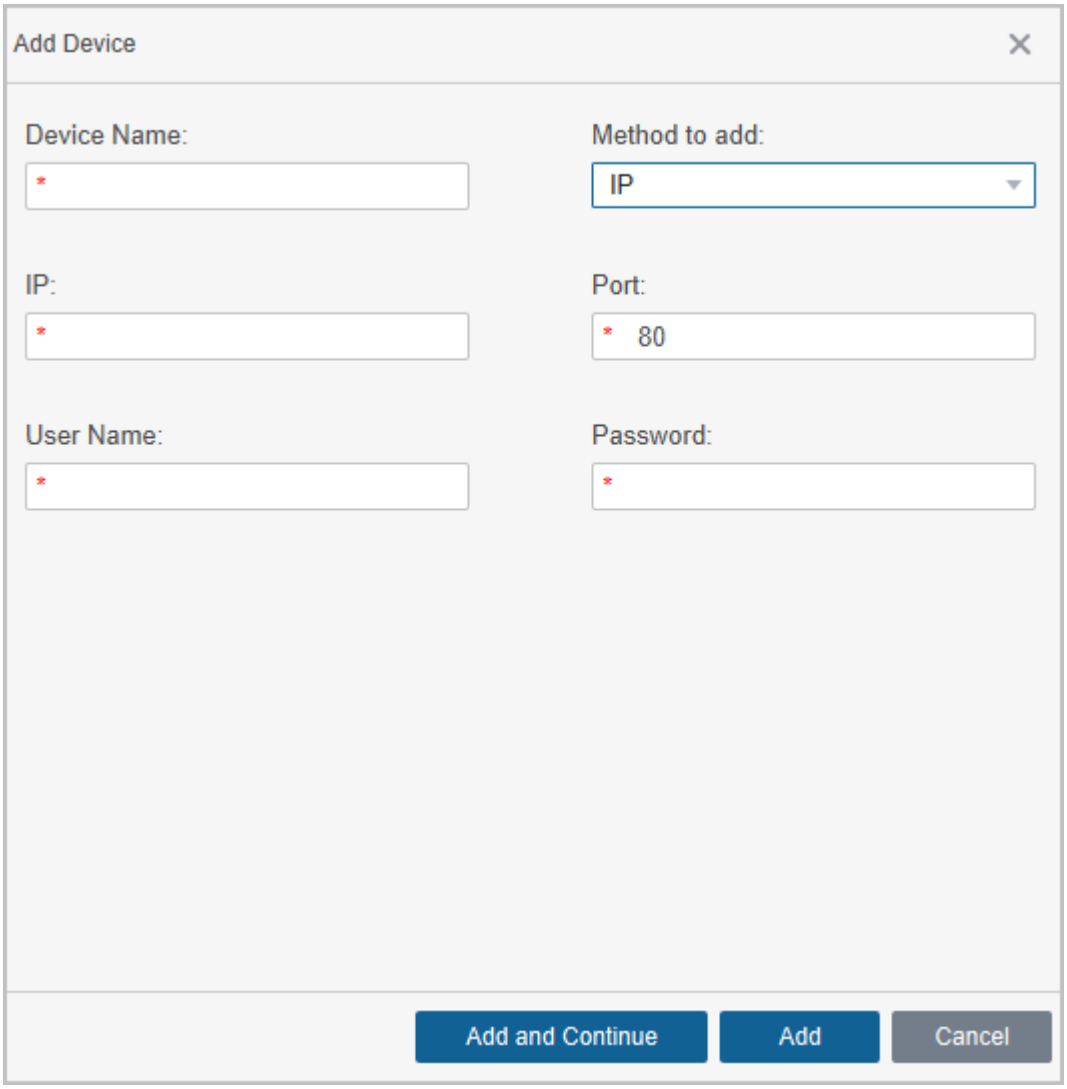


Figure 5-6 Add devices through SN

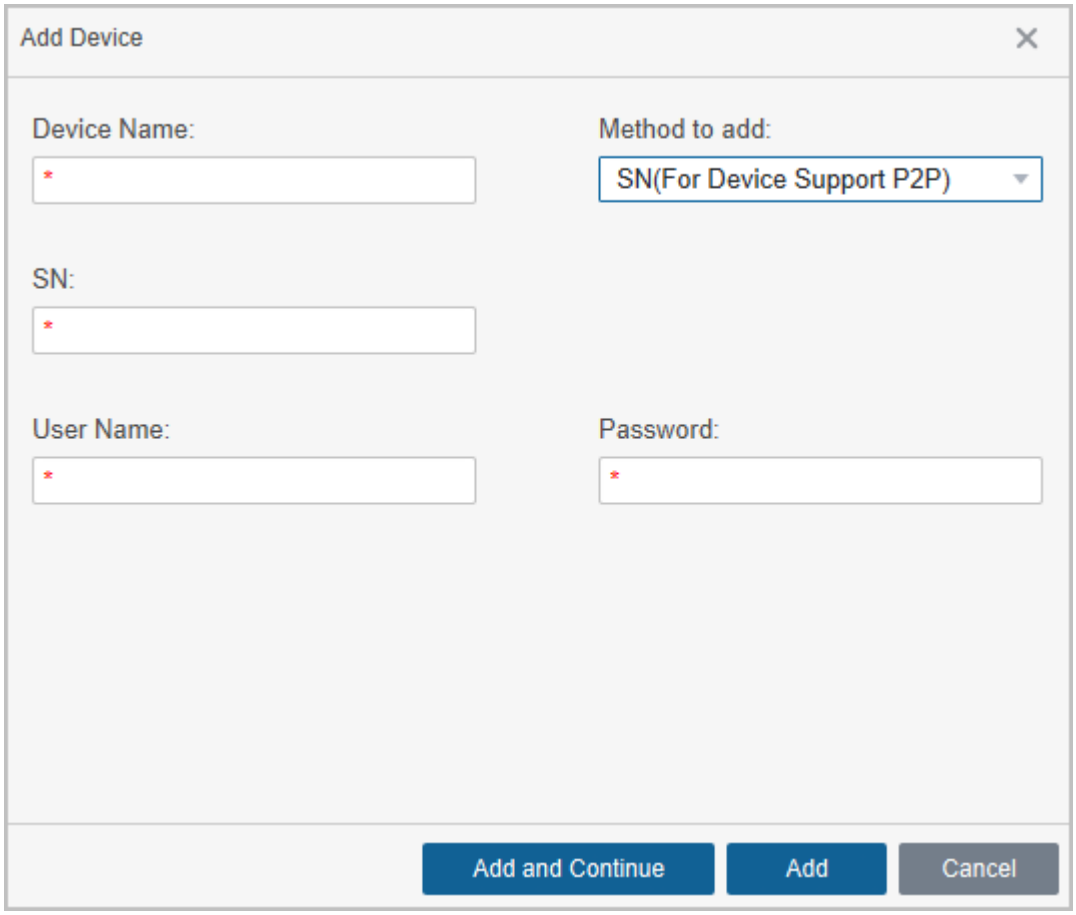


Table 5-1 Parameters of IP adding

Parameter	Description
Device Name	The name of the device.
Method to add	• IP: Add devices through IP Address. • SN (For Device Support P2P): Add devices through their serial number. Only devices that support P2P can added through SN.
IP	Enter the IP address of the device.
Port	Enter the port number (80 by default).
User Name	Enter the username and the password of the device.
Password	

Step 3 Click **Add** to add the device.

You can also click **Add and Continue** to add more devices.

5.3 Importing Device in Batches

You can export the device information, and then import it to another platform to add them in batches. We recommend you add devices by importing them when the devices are not on the same network segment.

Prerequisites

A .xml file of device information was exported.

Procedure

Step 1 On the home page, click **Device Manager**.

Step 2 Click **Import**, and then select the exported file to the platform.

Devices will be logged in automatically after adding.

6 Log Query

6.1 Client Logs

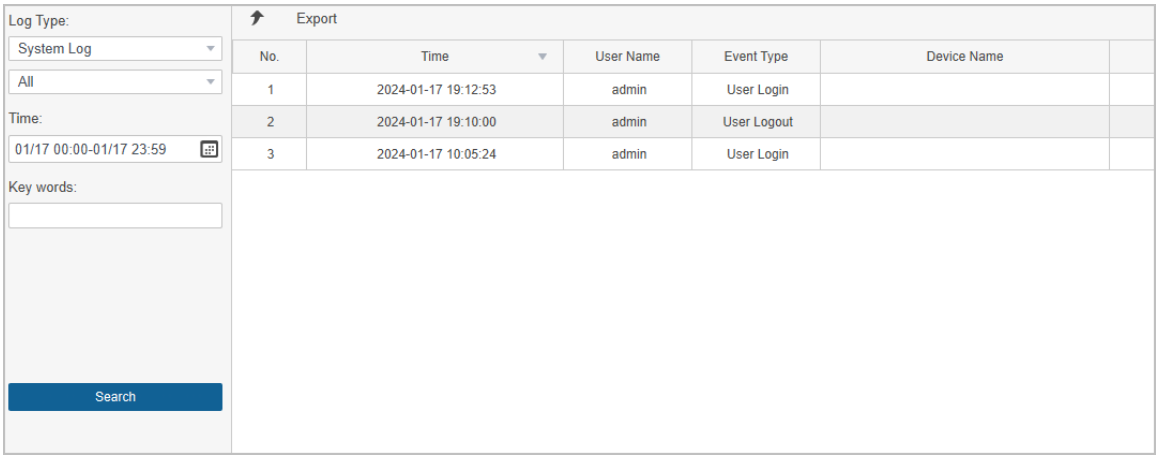
Search for system logs and operation logs.

Procedure

Step 1 On the home page, select **Log Query** > **Client**.

Step 2 Set search conditions or enter a keyword, and then click **Search**.

Figure 6-1 Search for logs



Step 3 (Optional) Click **Export** to export logs to your computer.

6.2 Device Logs

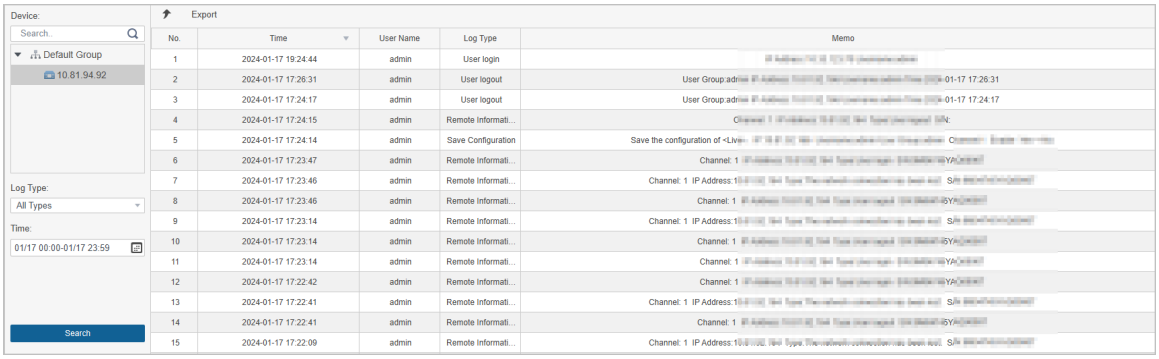
Search for event logs of a device.

Procedure

Step 1 On the home page, select **Log Query** > **Device**.

Step 2 Select a device, a log type and a time range, and then click **Search**.

Figure 6-2 Search for logs



Step 3 (Optional) Click **Export** to export logs to your computer.

7 User Management

7.1 Adding Roles

A role defines a set of menu permissions.

Procedure

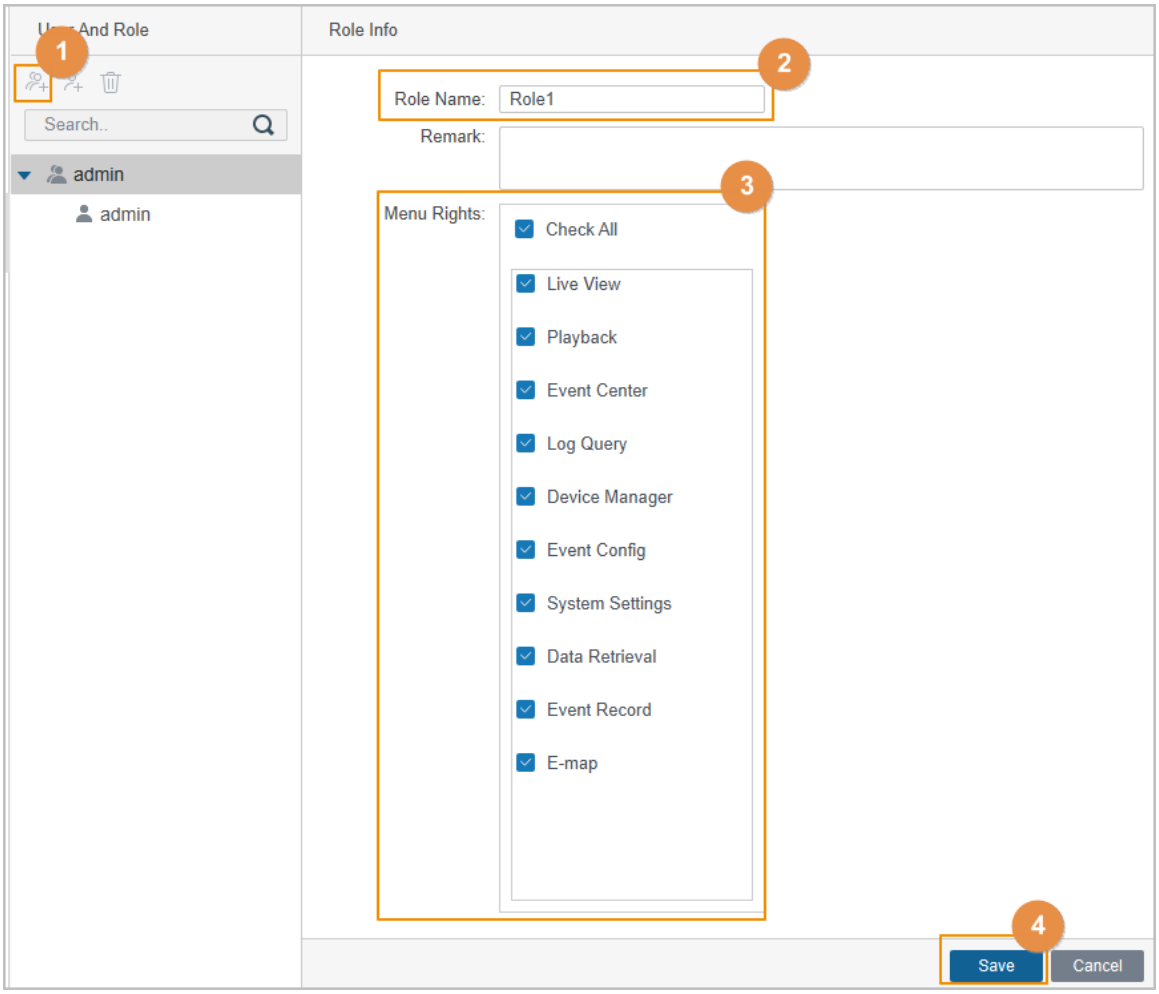
Step 1 On the home page, select **User Manager**.

Step 2 Click , and then enter the name of the role.

Step 3 Select menu permissions.

Step 4 Click **Save**.

Figure 7-1 Add roles



7.2 Adding Users

Associate roles with users, and users will be assigned with menu permissions associated with the role.

Procedure

Step 1 On the home page, select **User Manager**.

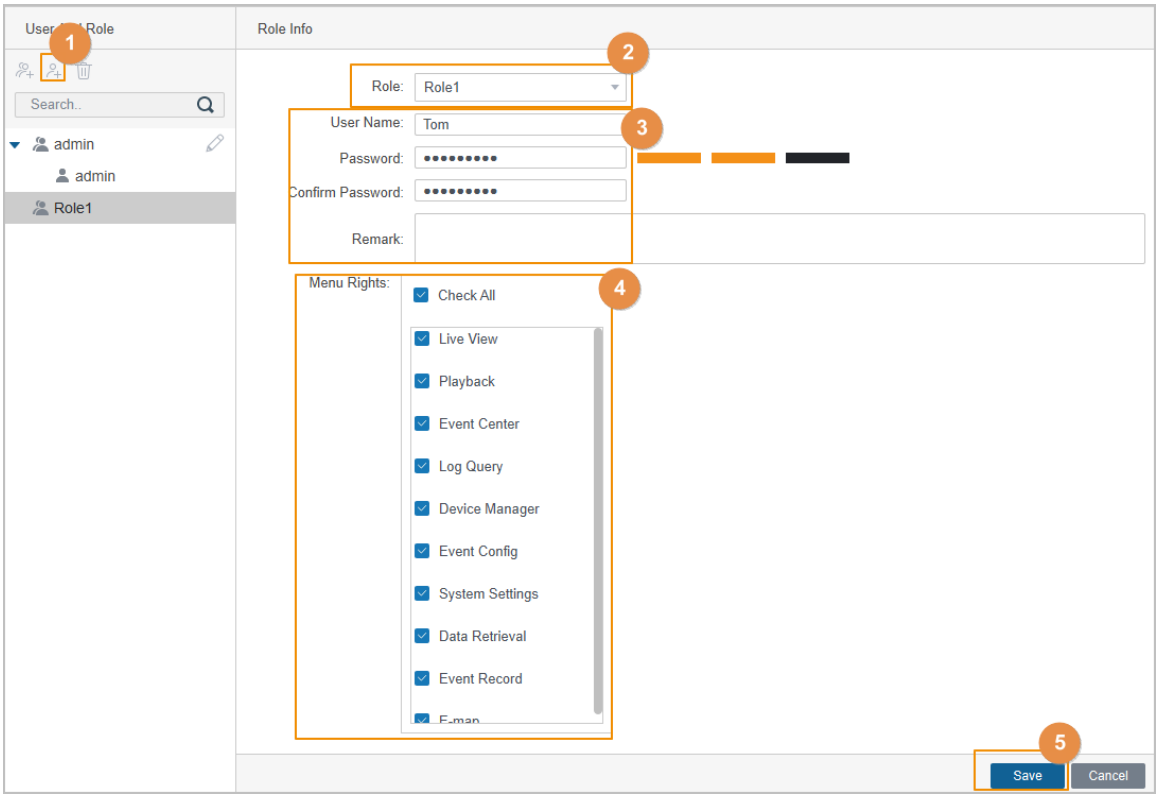
Step 2 Click .

Step 3 Select a role, and then enter the user information.

Step 4 (Optional) You can change the menu permissions.

Step 5 Click **Save**.

Figure 7-2 Add users



8 Event Configuration

When an event or alarm occur, the system will trigger the defined linkage actions. For example, alarm sound can be triggered when motion is detected. This section uses configuring motion detection linkage as an example.

Background Information

Different devices support different alarm linkages, and the actual page might vary depending on different devices.

Procedure

Step 1 Click **Event Config** on the home page.

Step 2 Select a device, and then select a channel event.

Step 3 Click on the right side of **Intrusion Alarm** to enable the function.

Step 4 Configure the notification linkages, and then click **Save**.

Figure 8-1 Configure intrusion alarm

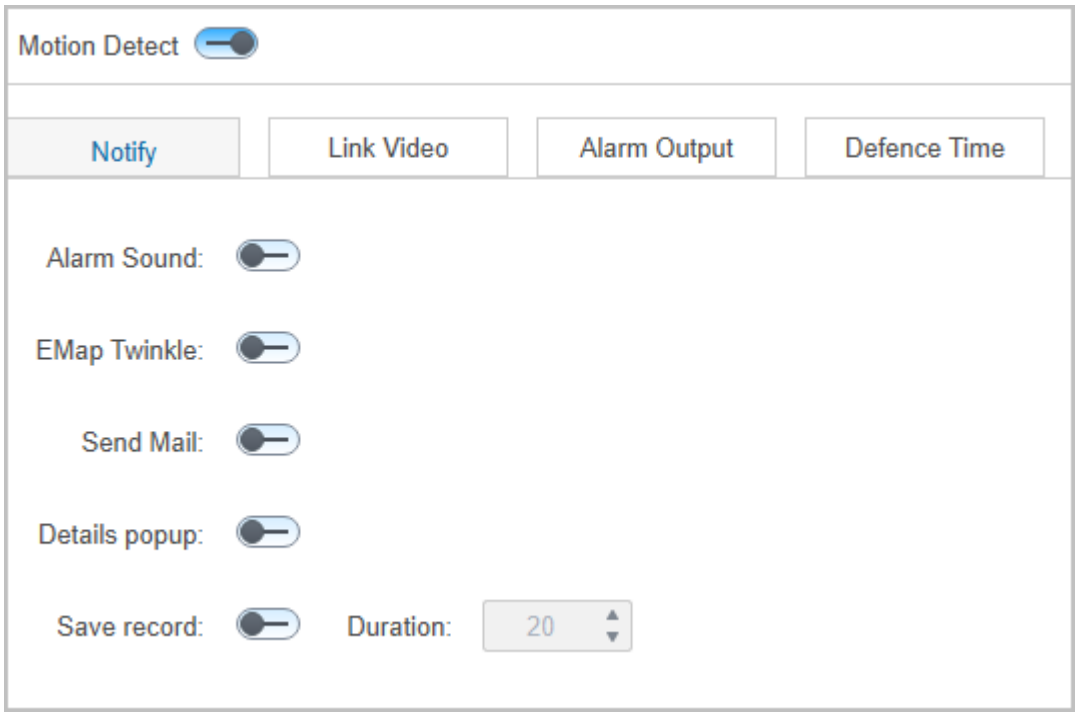


Table 8-1 Parameters description

Parameters	Description
Alarm sound	The alarm sound will be played when an event occur.
EMap Twinkle	When an alarm is triggered, the map will flash a red warning signal.
Send Mail	After this function is enabled, the system will automatically jump to **System Settings** page. Enable **SMTP**, and then configure SMTP parameters. For details, see "4.3 Event Setting".

Parameters	Description
Details popup	When an alarm is triggered, an alarm pop-up window will be displayed.
Save record	When an alarm is triggered, the system will record the video for a defined time.

Step 5 Configure linkage video.

1. Drag video channels to preview windows.
2. Configure the video linkage parameters.

Figure 8-2 Configure the video linkage

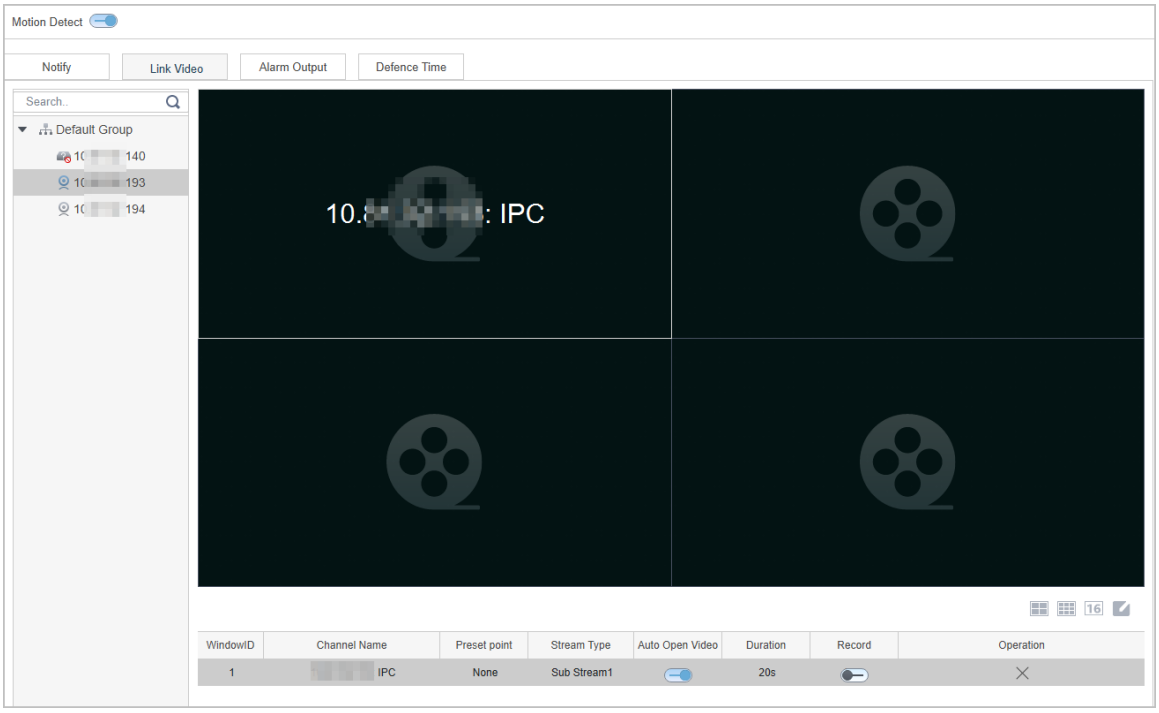


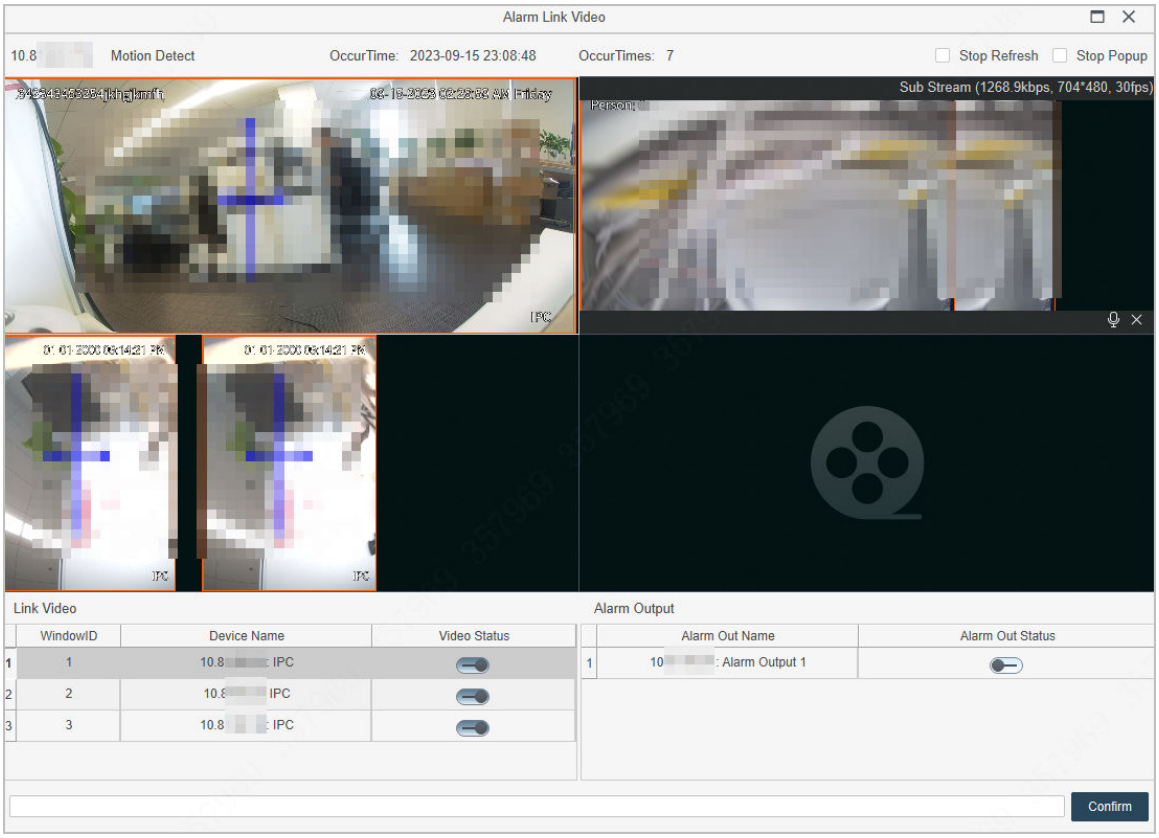
Table 8-2 Parameters description

Parameters	Description
Preset points	If the device supports PTZ function, you can select a preset point. For how to configure preset points, see"9.4.1 Configuring Preset Points".
Stream Type	Select main stream or sub stream.
Auto Open Video	A live video window is automatically opened when an alarm is triggered.
Duration	Enable this function and enter the duration. The system will automatically record videos for the define time when an alarm is triggered.
Record	

3. Click **Save**.

The linked videos will be displayed when an alarm is triggered.

Figure 8-3 Video linkage

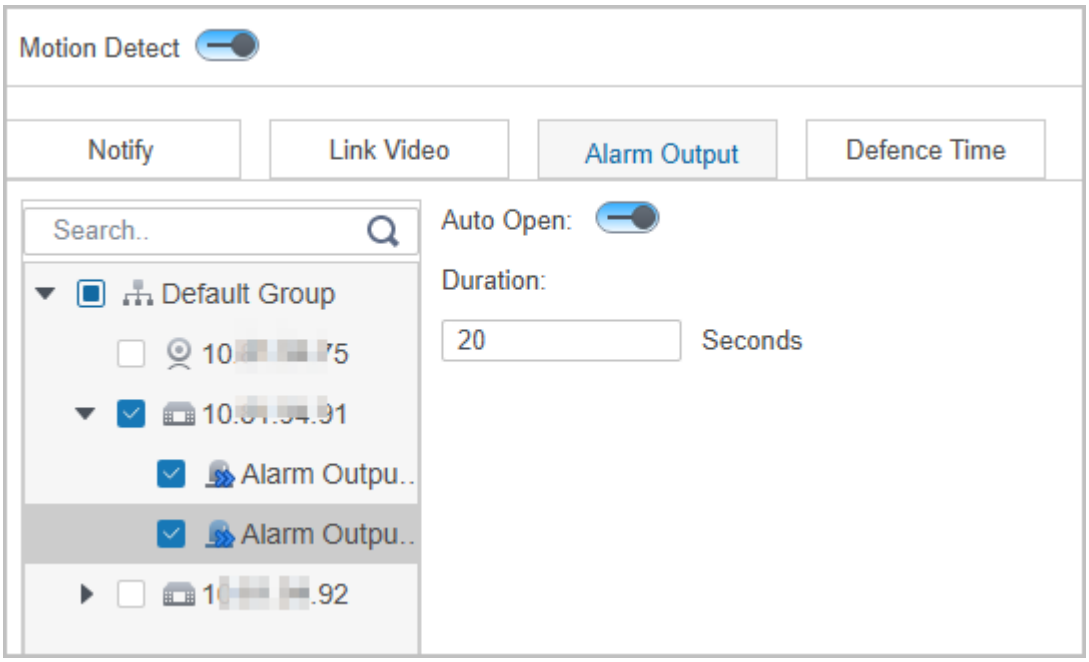


Step 6 Configure alarm output.

1. Select an alarm output.
2. Turn on the alarm function, and then enter the duration of the alarm.
3. Click **Save**.

   The alarm will last for a defined time.

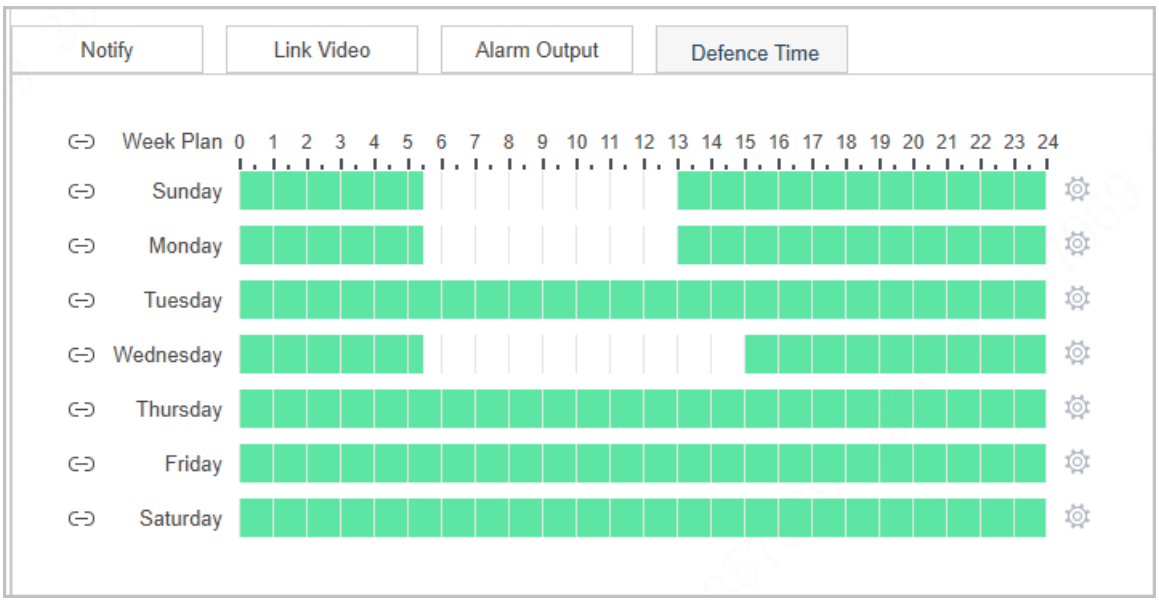
Figure 8-4 Configure alarm output



Step 7 Configure the defense time.

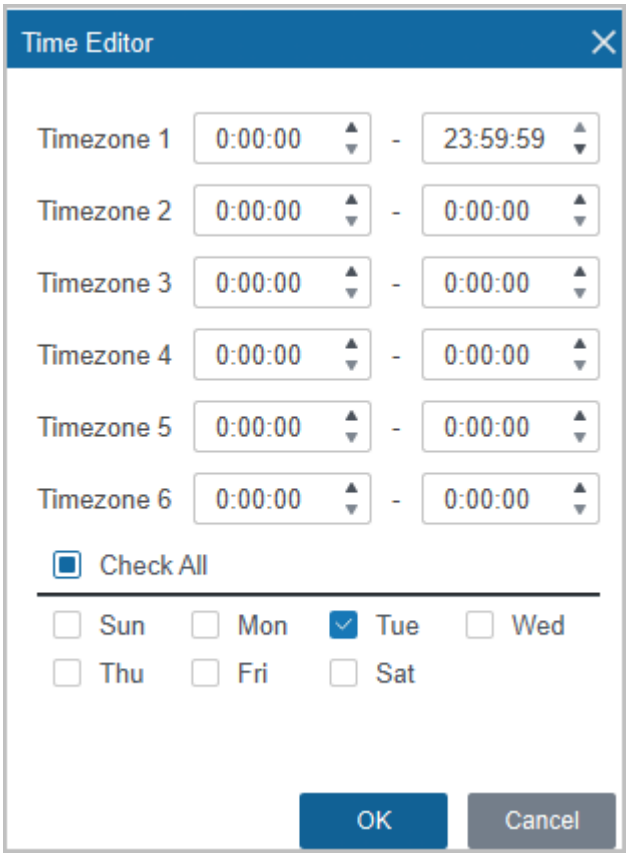
1. When the mouse pointer becomes a pen, hold your mouse button, and then drag to select a time range for each day.
2. If you want to cancel selecting a time range, when your mouse pointer becomes an eraser, hold your mouse button and then drag to delete a time range.

Figure 8-5 Configure defense time



3. You can click to adjust the time range, or select other days to apply the time range to other days.

Figure 8-6 Apply the time range to other days



Step 8 Click **Save**.

Related Operations

You can click **Copy to** to apply the configured settings to other device channels.

9 Live View

9.1 Viewing Live Video

Procedure

Step 1 Select **Live View**.

Step 2 Double-click a video channel to view the live video.

You can drag and drop a video channel into a preview window. If another video is already displayed, it is replaced by the new video.

You can double-click the device in the organization tree to open all the channels associated with the device.

Figure 9-1 View live video

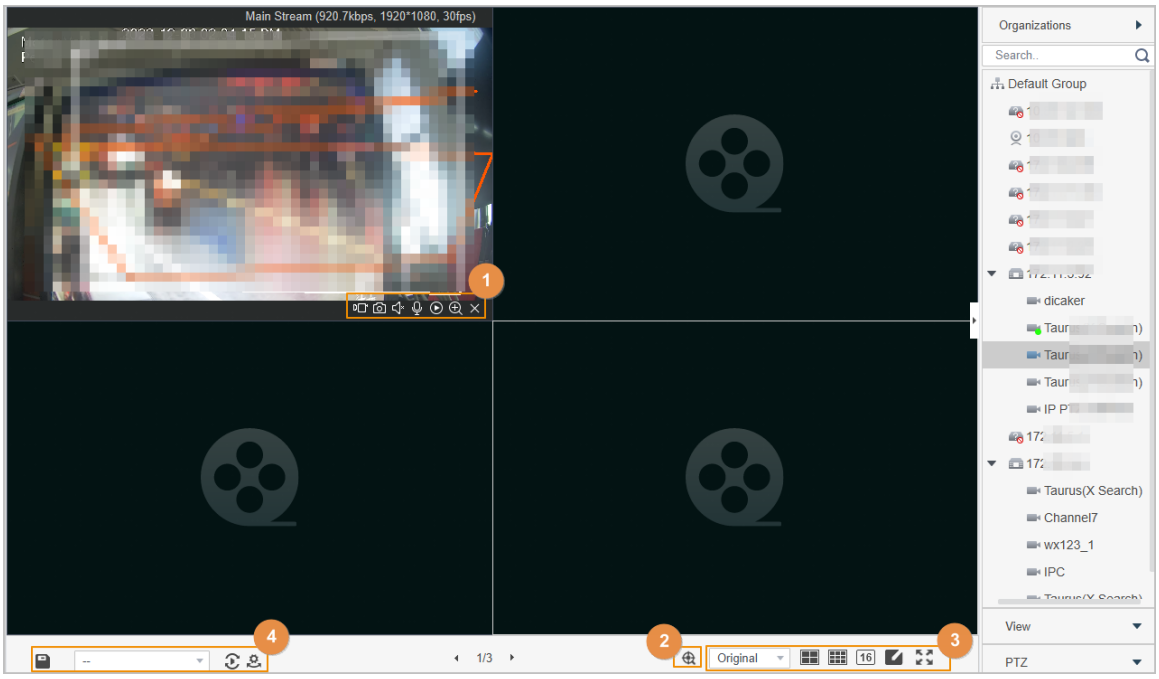
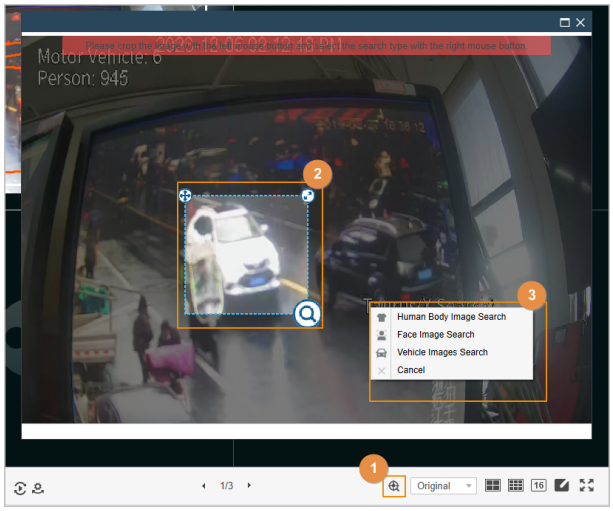


Table 9-1 Description of window shortcut keys

No.	Parameter	Description
1	Video player control	Hover over a live video, and then the video player control bar is displayed at the bottom of the preview window. ● : Click the icon, and then the platform starts recording the video. Click again to stop recording and save the recording file to your computer. The default storage path is ".../Data/User/Record". If you want to change the storage path, go to **System Settings** > **Local Path**. ● : Takes a snapshot of the current video and save it to your computer. The default storage path is ".../Data/User/Picture/Capture". If you want to change the storage path, go to **System Settings** > **Local Path**. ● : Enable or disable the audio of the video. ● : If this function is enabled, you can talk to people through the camera. ● : Play back the video for a define time. If you want to change the playback time, go to **System Settings** > **Monitor Settings**. ● : Scroll the mouse wheel to zoom in and out the live video. ● : Close the live video.

No.	Parameter	Description
2	Manual capture to search	1. Select a live video, and then click . 2. Frame the target that you want to search for. 3. Right-click to select a search type. • The human body searches for images: Search for human body images that are matched to the target. • Face search for images: Search for face images that are matched to the target. • Vehicles search for images: Search for vehicle images that are matched to the target. Figure 9-2 Quick search for images 
3	Window split	Adjust the scale of the live video and split screen into multiple panels.
4	Monitor tours	Tours allow the platform automatically monitor live videos between different video channels at a set order. For details, see "9.2 Configuring Tours".

Step 3 (Optional) Right-click the live view to open the video player control menu.

The menu might differ depending on the device you are using.

Figure 9-3 Video control menu

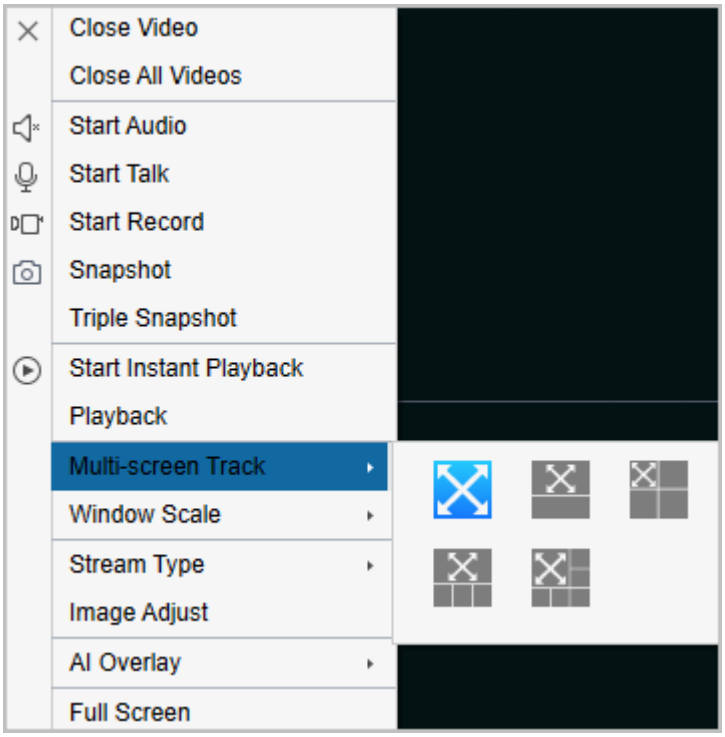


Table 9-2 Description of shortcut menu functions

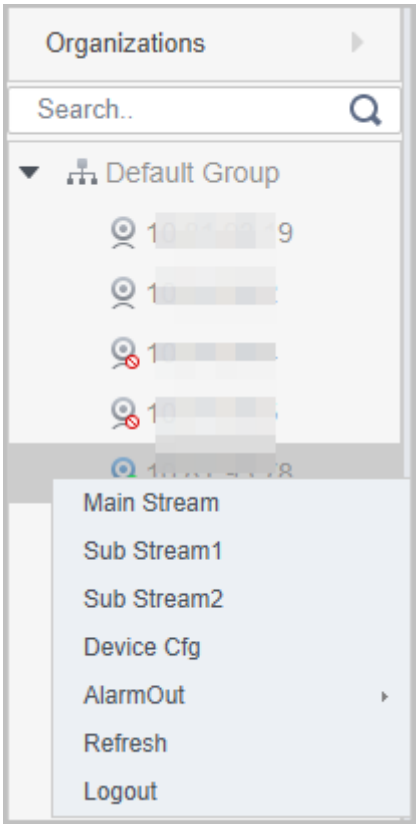
Parameter	Description
Close Video	Close the current live video.
Close All Videos	Close all live videos.
Start Audio	Enable or disable the audio of the video.
Start Talk	If this function is turned on, you can talk to people through the camera.
Start Record	The platform starts recording the video. Click the recording icon again to stop recording and save the recording file to your computer. The default storage path is ".../Data/User/Record". If you want to change the storage path, go to **System Settings** > **Local Path**.
Capture	Takes a snapshot of the current video and save it to your computer. The default storage path is ".../Data/User/Picture/Capture". If you want to change the storage path, go to **System Settings** > **Local Path**.
Triple Snapshot	Takes 3 snapshot of the current video and save it to your computer. The default storage path is ".../Data/User/Picture/Capture". If you want to change the storage path, go to **System Settings** > **Local Path**.
Start Instant Playback	Play back the video for a define time. If you want to change the playback time, go to **System Settings** > **Monitor Settings**.
Playback	Click **Playback** to turn to the playback page.
Multi-screen Track	The current video will be divided into full screen mode, 2 (1 + 1 mode) , 4 (1 + 3 mode) or 6 (1 + 5 mode) preview panes. One pane is used to play the whole live video, and the others plays parts of the video. You can zoom in or zoom out on the video.

Parameter	Description
Open E-tracking	When E-tracking function is enabled, the camera will track the moving people and vehicle. This function is only available on select models of devices. E-tracking function is not available in the full-screen mode.
Window Scale	Set the scale of the live video.
Stream Type	Select a stream type for the current video.
Image Adjust	Adjust brightness, contrast, saturation and hue for the video.
AI Overlay	The Analytic bounding boxes will be displayed over the video being viewed.
Full Screen	Goes to the full screen mode. If you want to exit the full screen mode, press Esc or right-click the video window, and then select **Exit Full Screen.**

Related Operations

- Right-click a video channel, and the right-click menu is displayed.
  - ◇ You can select a stream type to play the live video.
  - ◇ Click **Device Cfg**, you can go to the webpage of the device.

Figure 9-4 Right-click menu of devices



- Right-click a group and the right-click menu is displayed.

Figure 9-5 Right-click menu of region

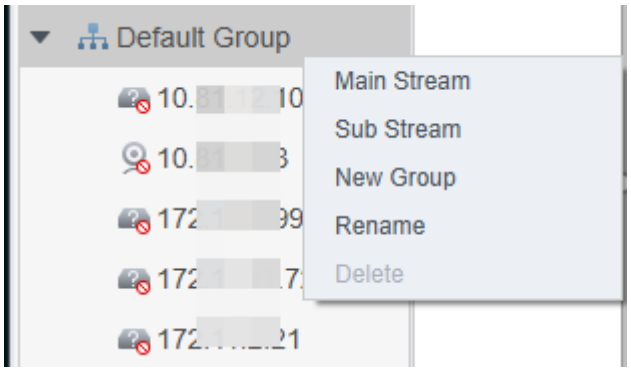


Table 9-3 Parameters description

Parameters	Description
Main Stream	You can double-click a group to open all channels in this region. Select a stream type for streaming videos. If you more than 4 channels are opened, the platform will stream videos through sub stream.
Sub Stream	
New Group	1. Right-click a group, and then click **New Group**. 2. Enter the name of the group, and then click **Save**. If you want to add more groups, click **Save and Continue**. 3. You can add devices in a group by directly dragging devices to the group.

9.2 Configuring Tours

Tours allow the platform automatically monitor live videos between different video channels at a set order.

Procedure

Step 1 Select **Live View**.

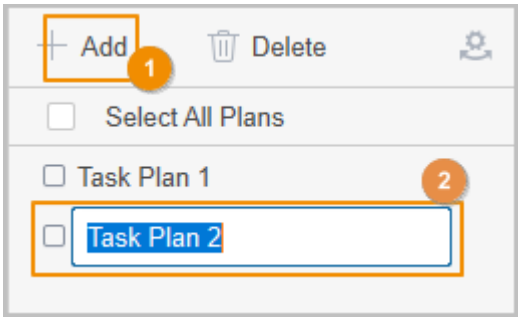
Step 2 Add a tour plan.

1. Click at the bottom of the screen.

Figure 9-6 Add tour plan (1)

2. Click **Add**, and then enter the name of the tour task plan.

Figure 9-7 Add tour plan (2)

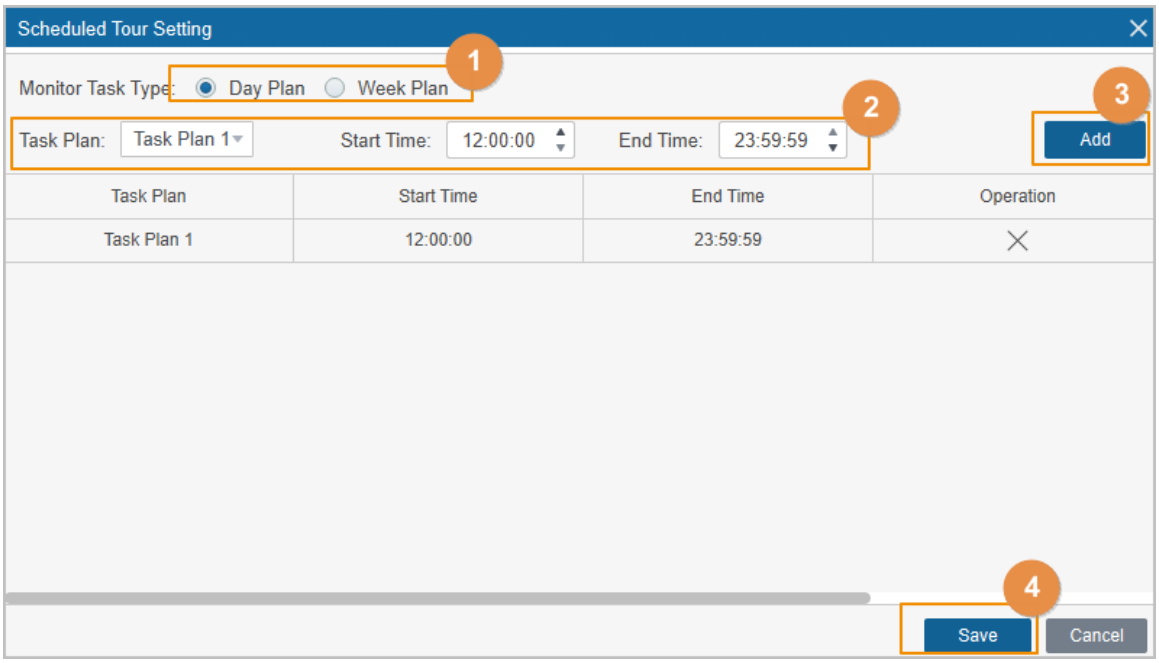


Step 3 Click to configure the schedule of the task plan.

1. Select **Day Plan** or **Week Plan** to configure a daily schedules or a weekly schedule.
2. Select a task plan, and then set the start time and the end time.

   You can schedule multiple task plans in a day, but the time cannot overlap.
3. Click **Add**.
4. Click **Apply**.

Figure 9-8 Schedule of the task plan



Step 4 Click a task plan, and then click .

Step 5 Drag video channels to preview windows.

Step 6 Configure tour parameters.

Figure 9-9 Add tour tasks

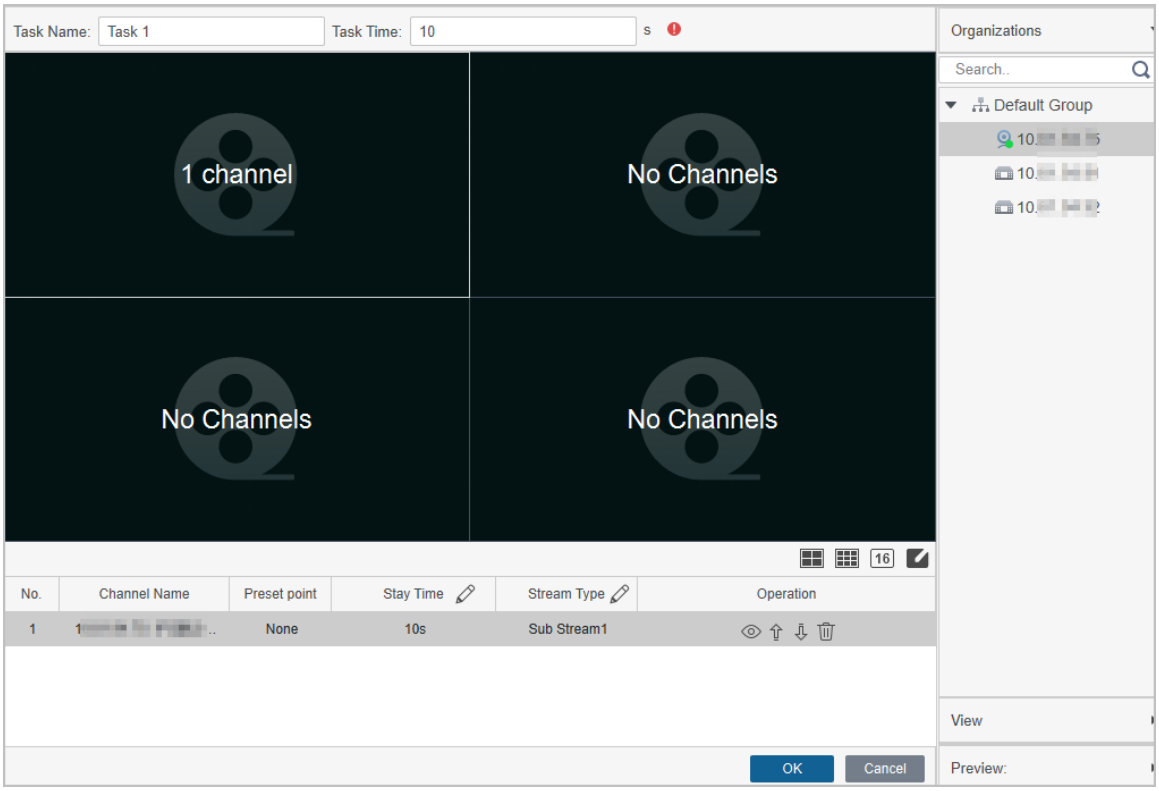


Table 9-4 Parameters description

Parameters/icon	Description
Task Time	Add the duration of each occurrence of the task. Tasks repeat until they are manually stopped.
Preset point	If the camera supports PTZ function, you can select a preset point, and then the PTZ camera will go to the defined preset. For how to configure presets. see "9.4.1 Configuring Preset Points".
Stay Time	Enter the amount of time you want to the preview window stays at this video channel for video monitoring. You can drag and drop multiple video channels to the same preview window, and the accumulated stay time of all channel must not exceed the task time.
Stream Time	Select a stream time for the video channel.
Operation	• Click to preview the video on the left side of the page. • Click to move up the channel. • Click to move down the channel. • Click to delete the channel.
	Customize window layouts.

Step 7 Select a tour task plan, and then click .

The tour runs immediately, and tours will repeat until manually be stopped by clicking again. You can also enable **Schedule Tour**, the tour task will perform at the scheduled time.

Figure 9-10 Start a plan

9.3 Configuring View Groups

If you have a lot of views, it can be difficult to find the view you're looking for. You can customize a view for your preference, and then it can be opened for quick access in the **View** drop-down list.

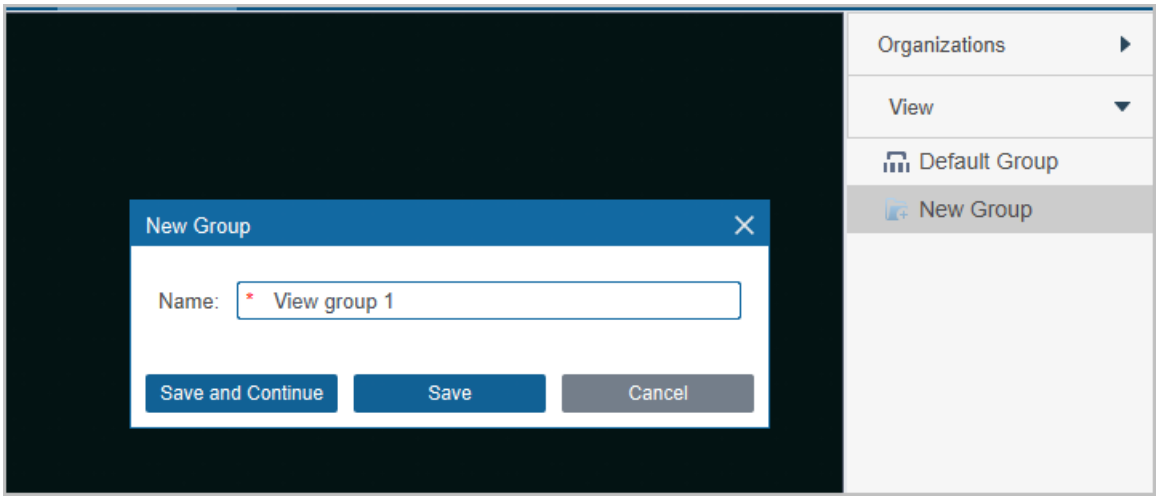
Procedure

Step 1 Select **Live View**.

Step 2 Create a new group.

1. Click **View**.
2. Click **New Group**, and then enter the name of the group.
3. Click **Save**.

Figure 9-11 Create new group



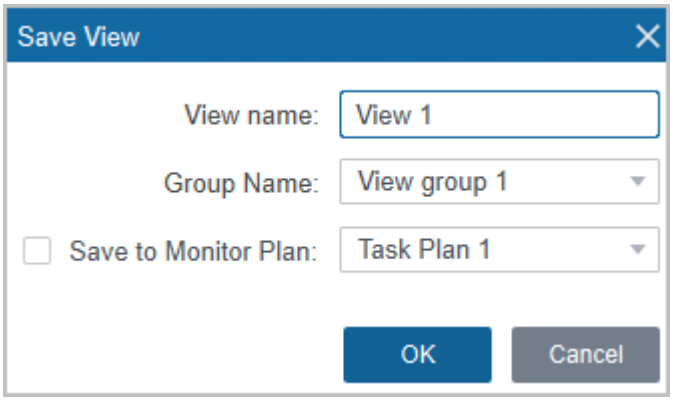
Step 3 Create a preview window.

1. Drag and drop video channels to the video windows, and then click at the bottom of page.
2. Enter the name of the view, and then select a group.
3. (Optional) Select **Save to Monitor Plan**.

   After saving to monitor group, the video channel corresponding to the view will automatically add to the task plan.
4. Click **OK**.

   A new view is added to the group.

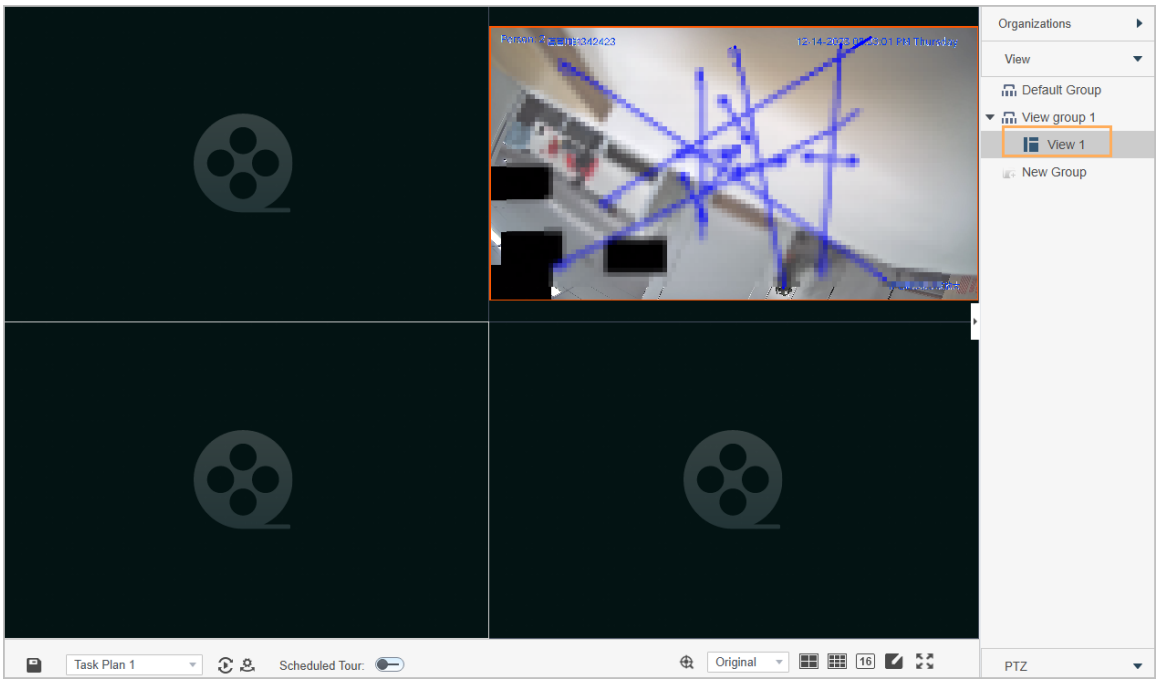
Figure 9-12 Create a view



Results

Double click a pre-defined view, all video channels associated with the view will be opened.

Figure 9-13 View group



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9.4 Configuring PTZ

If the added camera has PTZ function, you can control the camera through the PTZ control panel on the platform.

9.4.1 Configuring Preset Points

You can control PTZ camera movement by directing the camera to move to preset positions. You can also manage your presets by creating and deleting them.

Procedure

Step 1 Select **Live View** on the **Monitor Solution** page.

Step 2 Select a device with PTZ function.

Step 3 Click PTZ tab, and then add preset points.

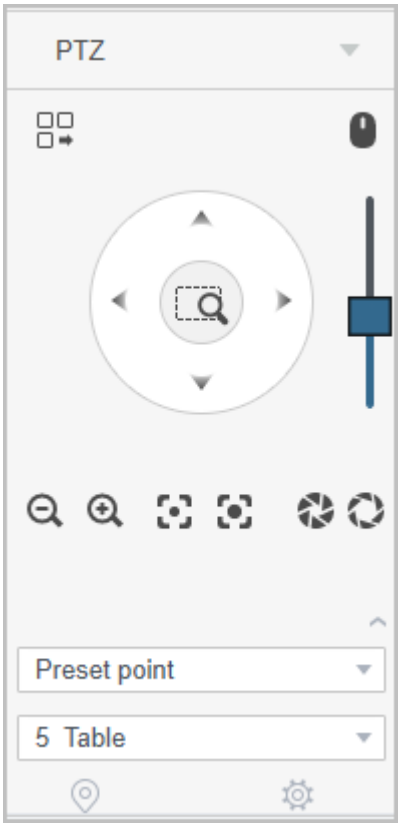
1. On the PTZ control panel, select **Preset Point**.
2. Click PTZ direction buttons to move the camera's field of view into a desired position.
3. Select a preset point, click , and then enter the name of the preset point.

Figure 9-14 Add preset points

4. Click .

Step 4 Call preset points. Select a preset point from the drop-down list. Click , and then the camera goes to the preset.

Figure 9-15 Call preset points



9.4.2 Configuring Tour

A Tour is a series of presets that can be called to set up an endless loop to monitor different areas.

Prerequisites

At least 2 preset points were added. For details, see "9.4.1 Configuring Preset Points"

Procedure

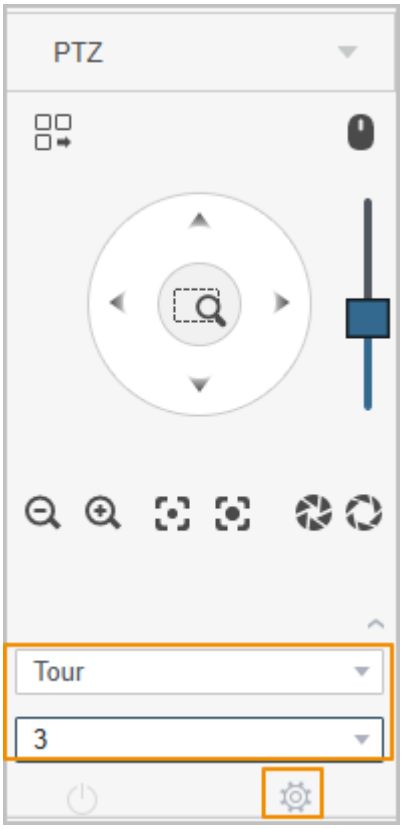
Step 1 Select **Live View**.

Step 2 Select the device with PTZ function.

Step 3 Add tour.

1. select **Tour**, and then click .

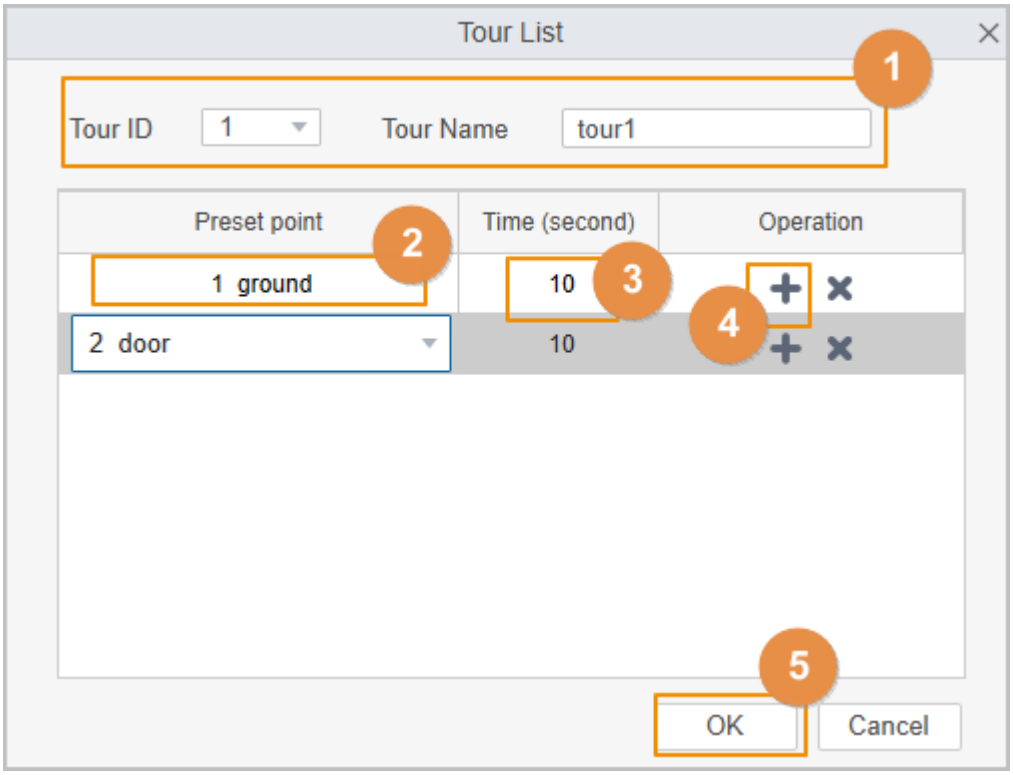
Figure 9-16 Add a tour



2. Select the **Tour ID** , and then enter the **Tour Name**.
3. Select a preset point, and set the stay time.

   The camera will pause at each preset for a specific amount of time for video monitoring.
4. Click + to add more presets.
5. Click **OK**.

Figure 9-17 Configure the tour



Step 4 Start the tour.

1. Select **Tour** on the PTZ control panel, and then select a tour.
2. Click , and then the camera starts tour between the configured preset points.

9.4.3 Configuring Pan

A Pan moves the PTZ 360° at a set speed.

Procedure

Step 1 Select **Live View**.

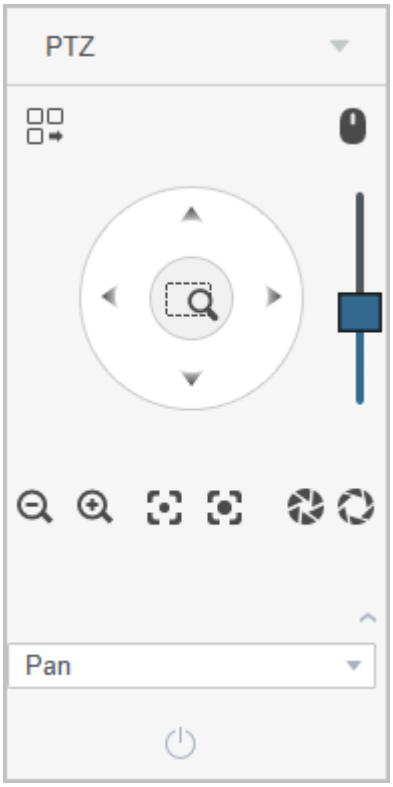
Step 2 Select the device with PTZ function.

Step 3 On the PTZ control panel, select **Pan**.

Step 4 Click .

The camera starts rotating. Click again, the camera stops rotating.

Figure 9-18 Configure pan



9.4.4 Configuring Scan

The PTZ moves left and right between set boundaries at a set speed.

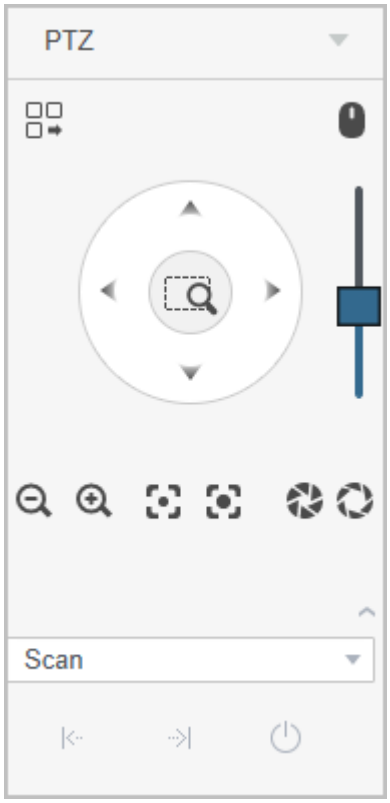
Procedure

Step 1 Select **Live View**.

Step 2 Select the device with PTZ function.

Step 3 On the PTZ control panel, select **Scan**.

Figure 9-19 Configure scan



Step 4 Use the PTZ Controls to set the camera to where you want the left limit to be, and then click to set the left boundary.

Step 5 Use the PTZ Controls to set the camera to where you want the right limit to be, and then click to set the right boundary.

Step 6 Click to start scanning, and then the camera moves between the two boundaries.

You can click again to stop scanning.

9.4.5 Configuring Pattern

Use the PTZ controls to move the camera and create a pattern. Click to stop recording the pattern. The camera can automatically move following the preset movement pattern.

Procedure

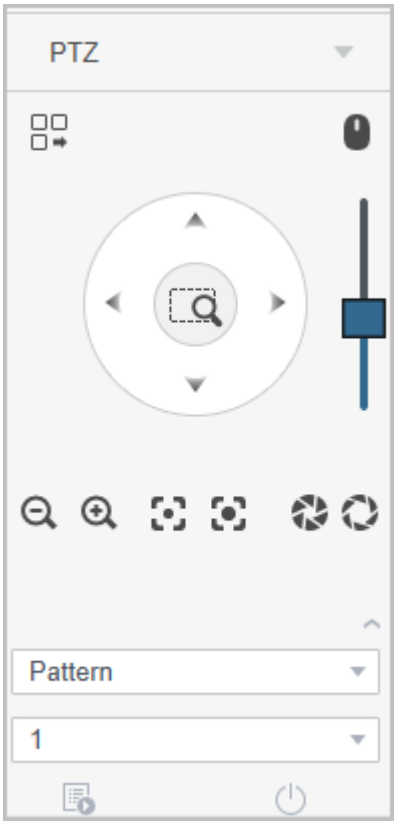
Step 1 Select **Live View**.

Step 2 Select the device with PTZ function.

Step 3 Add a pattern.

1. On the PTZ control panel, select **Pattern**.
2. Select a pattern number and click .
3. Use the PTZ controls to move the camera and create the pattern.
4. Click to stop recording the pattern.

Figure 9-20 Add a pattern



Step 4 Select a pattern, and then click .

The camera automatically moves following the pattern.

9.4.6 Configuring Wiper

The PTZ equipped with a wiper can clear moisture from the lens.

Procedure

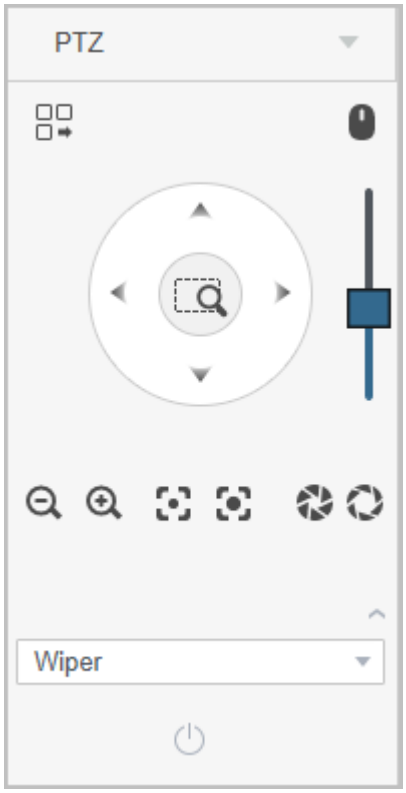
Step 1 Select **Live View**.

Step 2 Select the device with the PTZ function.

Step 3 Select **Wiper** on the PTZ control panel.

Step 4 Click to enable wiper function.

Figure 9-21 Wiper function



10 Playback

View playback videos and snapshots on the computer and device.

10.1 Playback Videos on the Device

Procedure

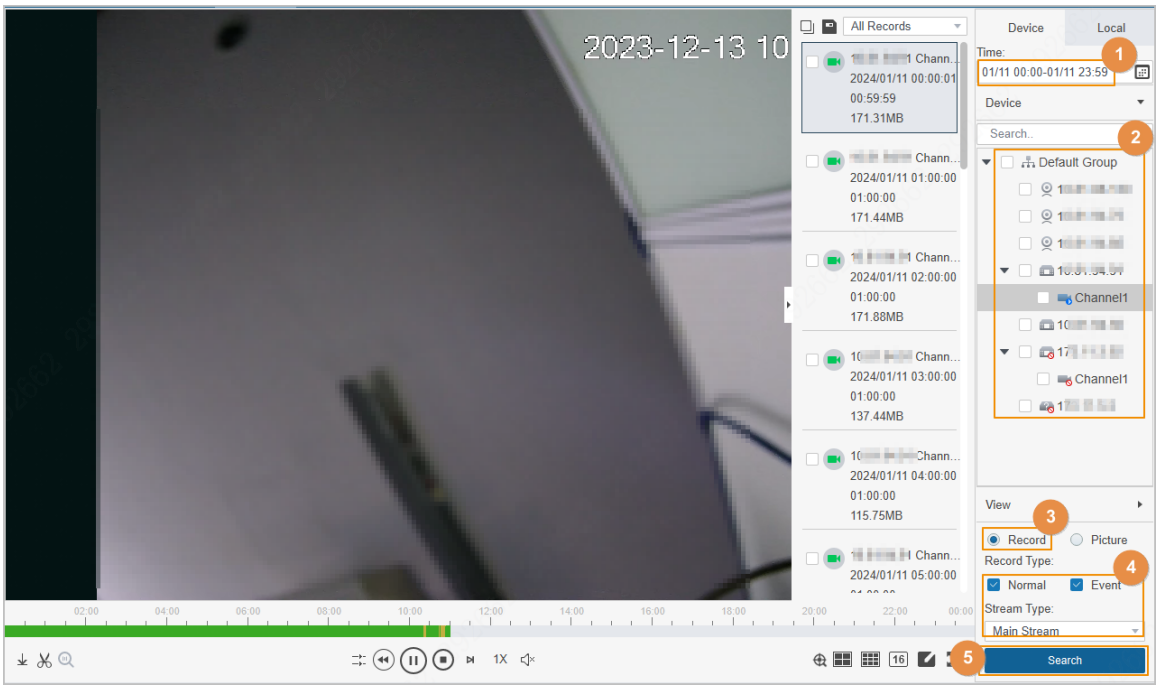
Step 1 On the home page, select **Playback**.

Step 2 Select a video channel, and set a time range.

Step 3 Select **Record**, and then configure the record type and the stream type.

Step 4 Click **Search**.

Figure 10-1 Search for recorded videos



Step 5 Click to play back the video.

You can select a recorded video in the list to play back it.

Table 10-1 Description of playback

Icon	Parameter	Description
	Export Progress	View the video export progress.
	Time Clip	Clip and download a video of a certain period.
	Smart Search	Dynamic detection analysis of a certain region of the monitoring scree. Only videos with dynamic images in the detection region can be played back.
	Sync	Synchronize video playback in different windows.
/	Backward/Playback	Backward/Playback the video.

Icon	Parameter	Description
	Stop/Pause	Stop/pause the video.
	Play	Play the video.
	Frame by Frame Forward	Play the video frame.
	Normal Playback Speed	Accelerate/decelerate video playback speed.
	Voice	Adjust the voice of the video.
	Timeline	Display the time period of the video. During video playback, you can drag the timeline to playback the video at the corresponding time point.
	4 Split	Split windows.
	Custom Split	Custom window split.
	Full Screen	Goes to the full screen mode.
	Video Playback Download	Select videos in the file list or click to select all video files. Click , and then download videos to your computer.

10.2 Playback Videos on the Computer

Procedure

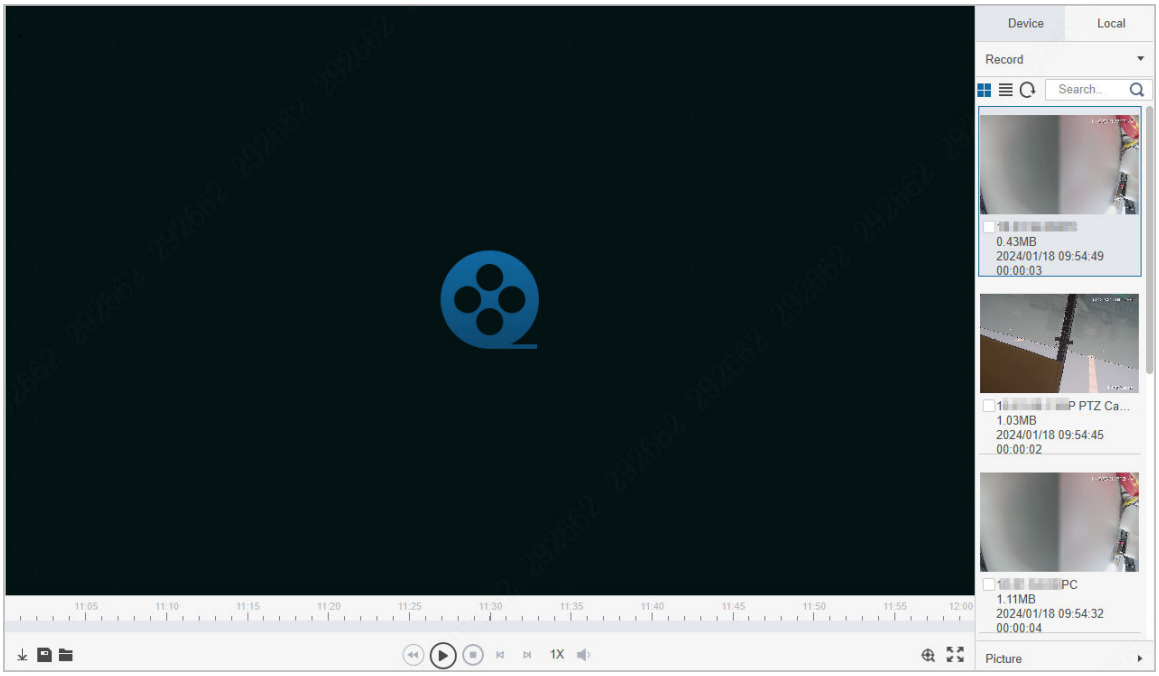
Step 1 On the home page, select **Playback**.

Step 2 select **Playback** > **Local** > **Record**.

Step 3 You can play back videos on the computer through 2 methods.

- Method 1: Double-click the video in the record list.
- Method 2: Select the video in the record list, and then click .

Figure 10-2 Playback videos



10.3 Viewing Snapshots

View snapshots on the device and computer.

10.3.1 Viewing Snapshots on the Device

Procedure

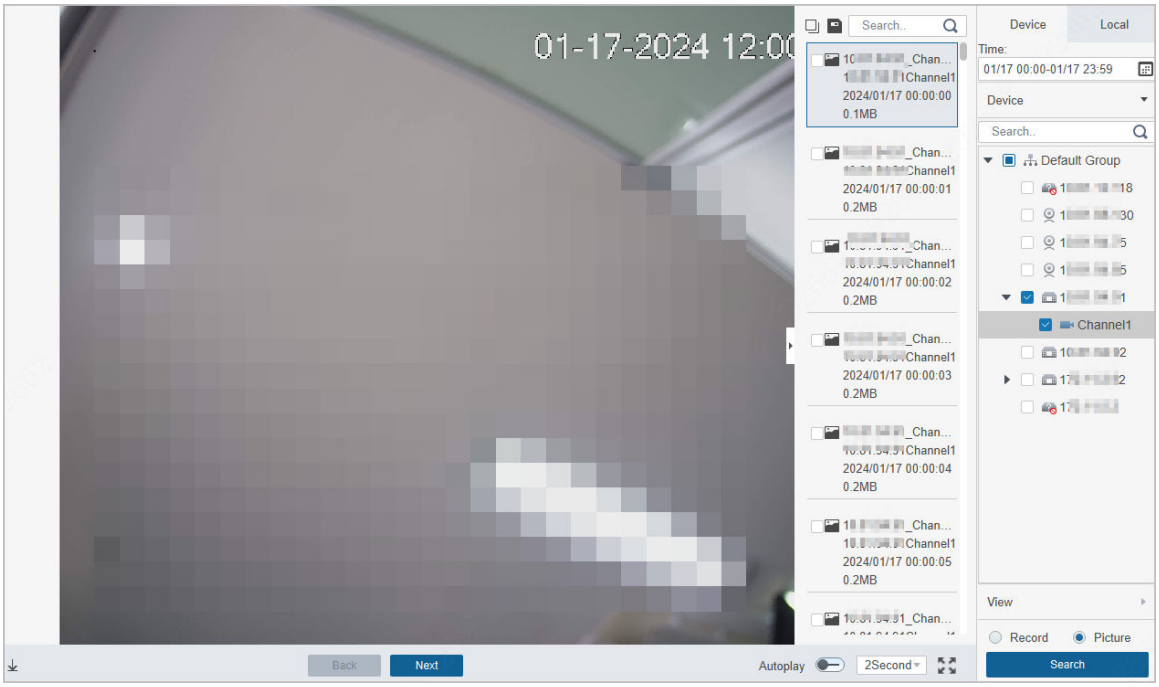
Step 1 On the home page, select **Playback** > **Device**.

Step 2 Select device channels.

Step 3 Set the time range, select **Picture** , and then click **Search**.

The snapshots are displayed.

Figure 10-3 View snapshots on the device



10.3.2 Viewing Snapshots on the Computer

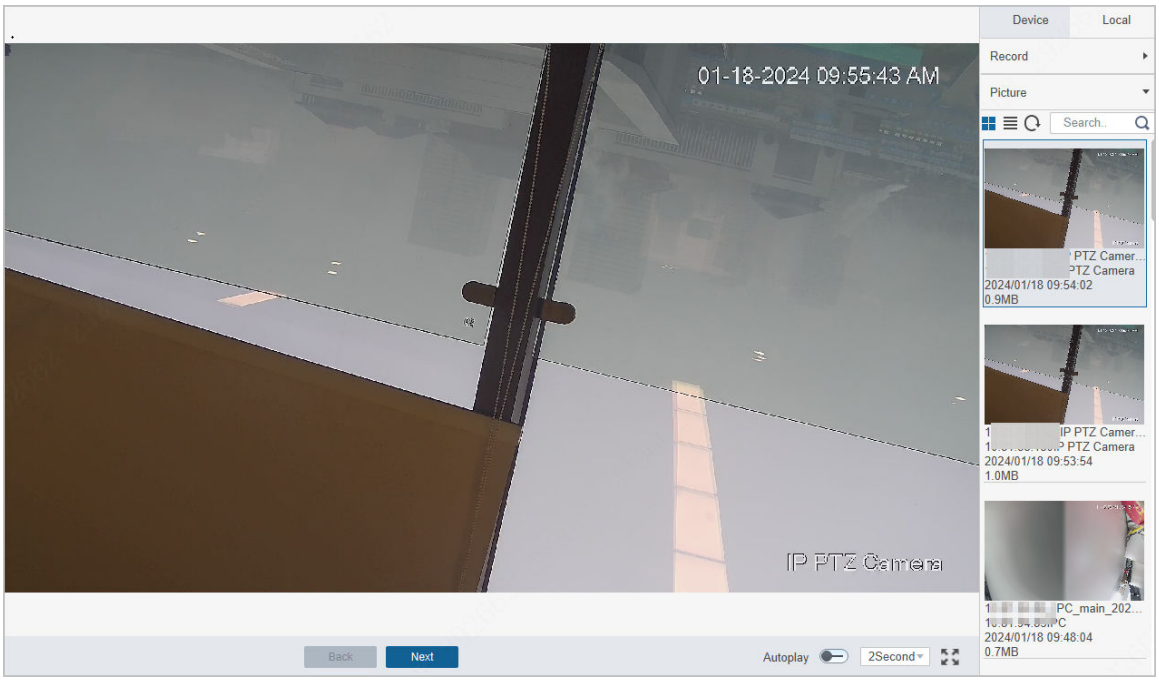
Procedure

Step 1 On the home page, select **Playback**.

Step 2 Click **Local** , and then click **Picture**.

Step 3 Select a snapshot in the list, and then the snapshot will be displayed in the window.

Figure 10-4 View snapshots on the computer



11 Data Retrieval

11.1 Behavior Analysis

View the behavior alarm events

Procedure

Step 1 On the home page, click **Data Retrieval**.

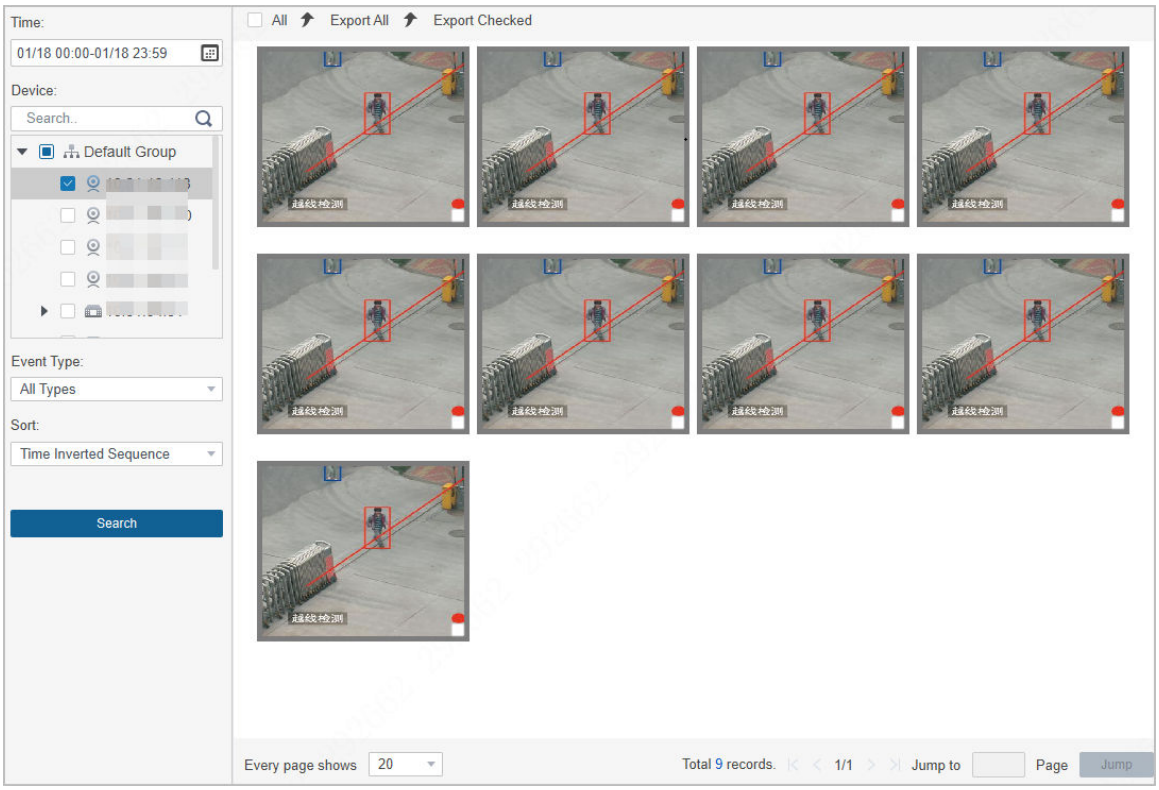
Step 2 Click **Behavior Analysis**.

Step 3 Select the time range, devices, and event type.

Step 4 Click **Search**.

Alarm snapshots are displayed.

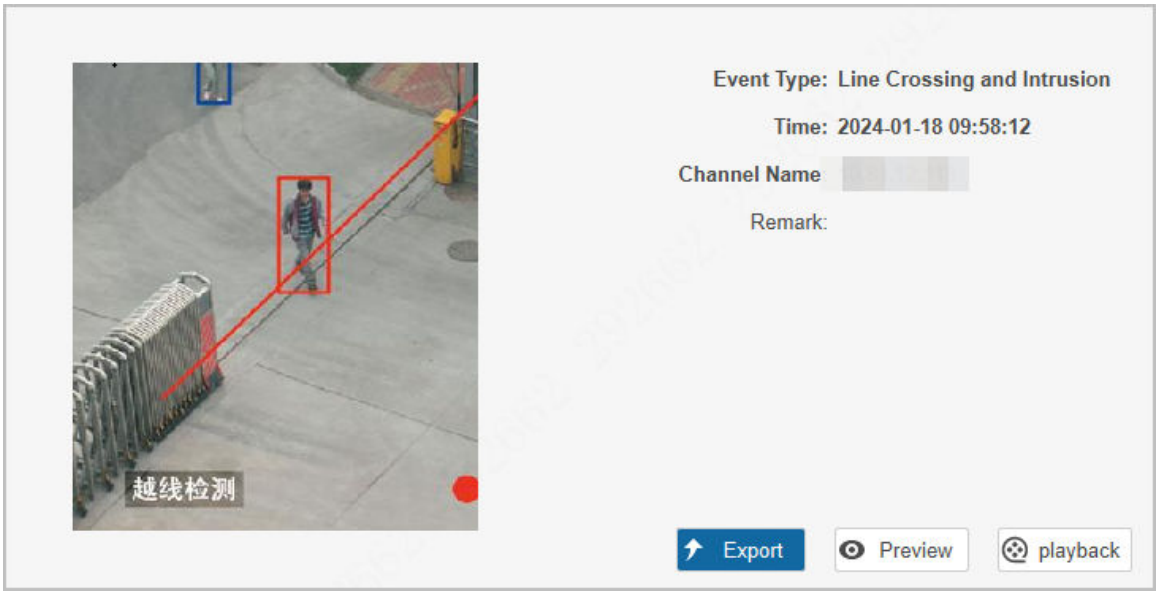
Figure 11-1 Behavior analysis



Step 5 Click a snapshot to view the alarm details.

- Export: Exports the current alarm event.
- Preview: View the live video.
- Playback: View the recorded video.

Figure 11-2 Event details



Related Operations

- Export All: Export all searched alarm events.
- Exported Checked: Export the selected alarm events.

11.2 Vehicle Analysis

View the vehicle events.

Prerequisites

The event linkage of **Vehicle Trait** is configured. For details, see"8 Event Configuration".

Procedure

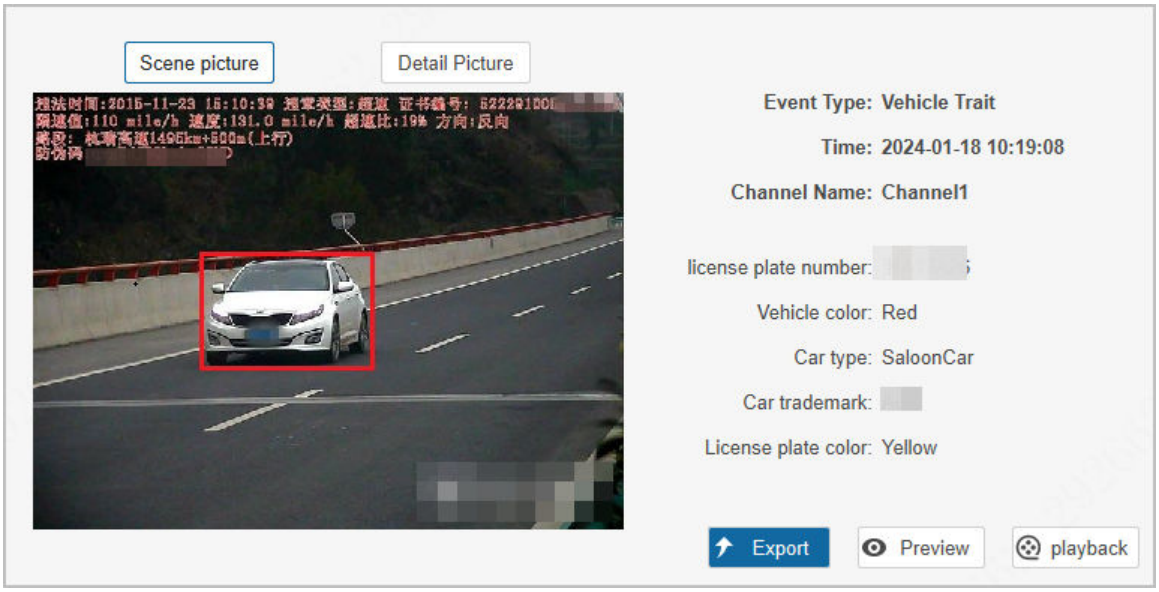
Step 1 On the home page, click **Data Retrieval**.

Step 2 Click **Vehicle Retrieval**.

Step 3 Select the time range, and then select the query type.

- Plate No.: Search for face images according to the plate number.
  1. Select devices.
  2. Enter the plate number, and then select the sorting method.
  3. Click **Search**.
  4. Click a snapshot to view the event details.

Figure 11-3 Event details



- ◇ Export: Exports the current alarm event.
- ◇ Preview: View the live video.
- ◇ Playback: View the recorded video.

- Picture: Search for find similar vehicle available on the database by uploading a vehicle image.

  This function is only available on select devices.

  1. Select a device.
  2. Upload a vehicle image, and then set a similarity threshold.

     Only supports uploading images in jpg.
  3. Select a sorting method.
  4. Click **Search**.

Related Operations

- Export All: Export all searched events.
- Exported Checked: Export the selected events.

11.3 Face Search

Procedure

Step 1 On the home page, click **Data Retrieval**.

Step 2 Click **Face Search**.

Step 3 Select the time range, and then select the query type.

- Attribute: Search for face images according to face attributes.

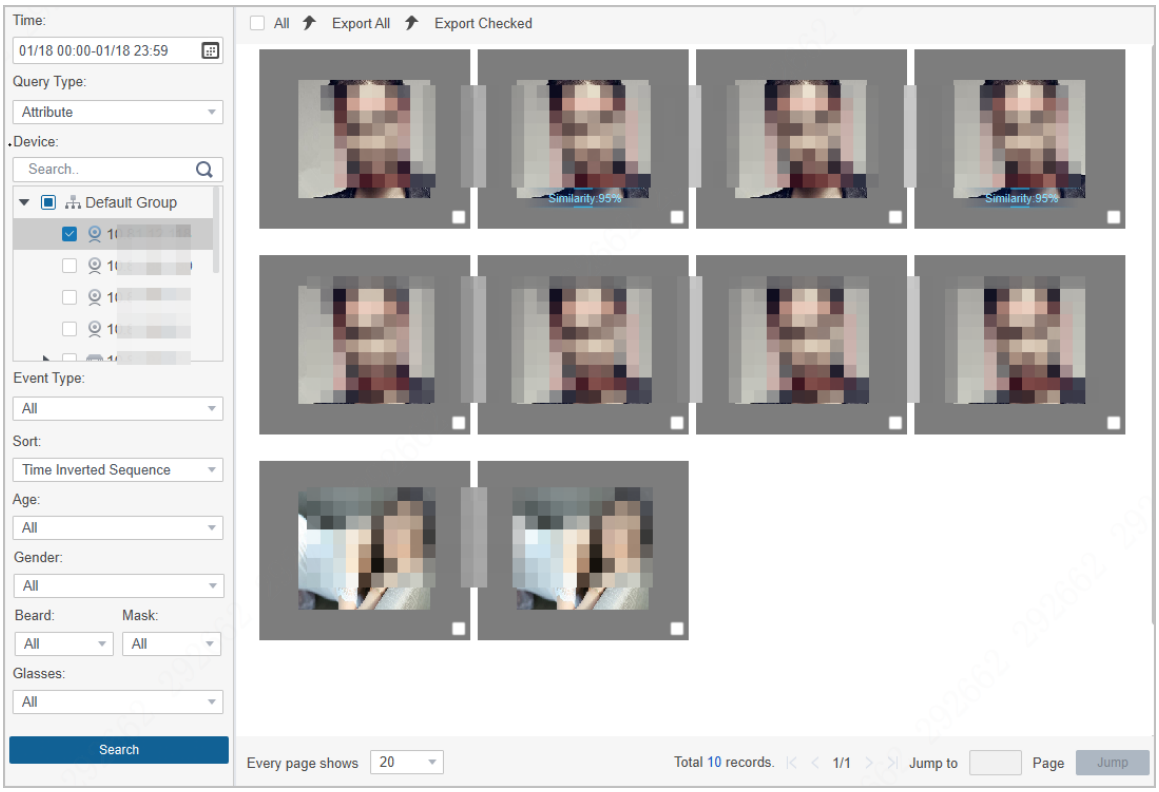
  1. Select devices.
  2. Select an event type.
     - ◇ Face Detection: Search for face images that are detected.

- Target Recognition: Search for face images that are matched to ones in an existing database of faces.

  Make sure face images were added to the devices and face detection rule are enabled.
- Stranger: Search for face images that are not matched to ones in an existing database of faces.

3. Select other filters, such as time sequence, age, gender, beard, mask, and glasses.
4. Click **Search**.

Figure 11-4 Search by attributes



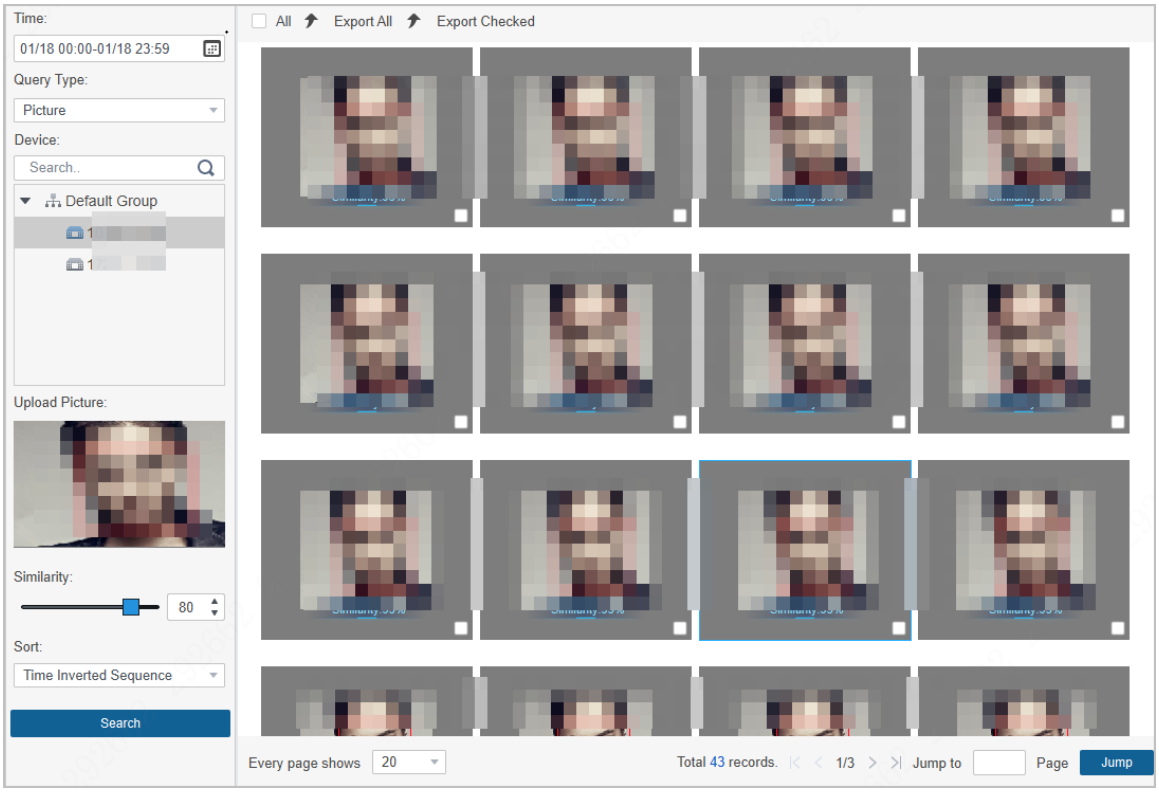
- Picture: Search for find similar images available on the database by upload a face image.

  This function is only available on select devices.

  1. Select a device.
  2. Upload a face image, and then set a similarity threshold.

     Only supports uploading images in jpg.
  3. Select a sorting method.
  4. Click **Search**.

Figure 11-5 Search by picture



Step 4 Click a snapshot to view the event details.

- Export: Exports the current alarm event.
- Preview: View the live video.
- Playback: View the recorded video.

Related Operations

- Export All: Export all searched events.
- Exported Checked: Export the selected events.

11.4 Body Search

Procedure

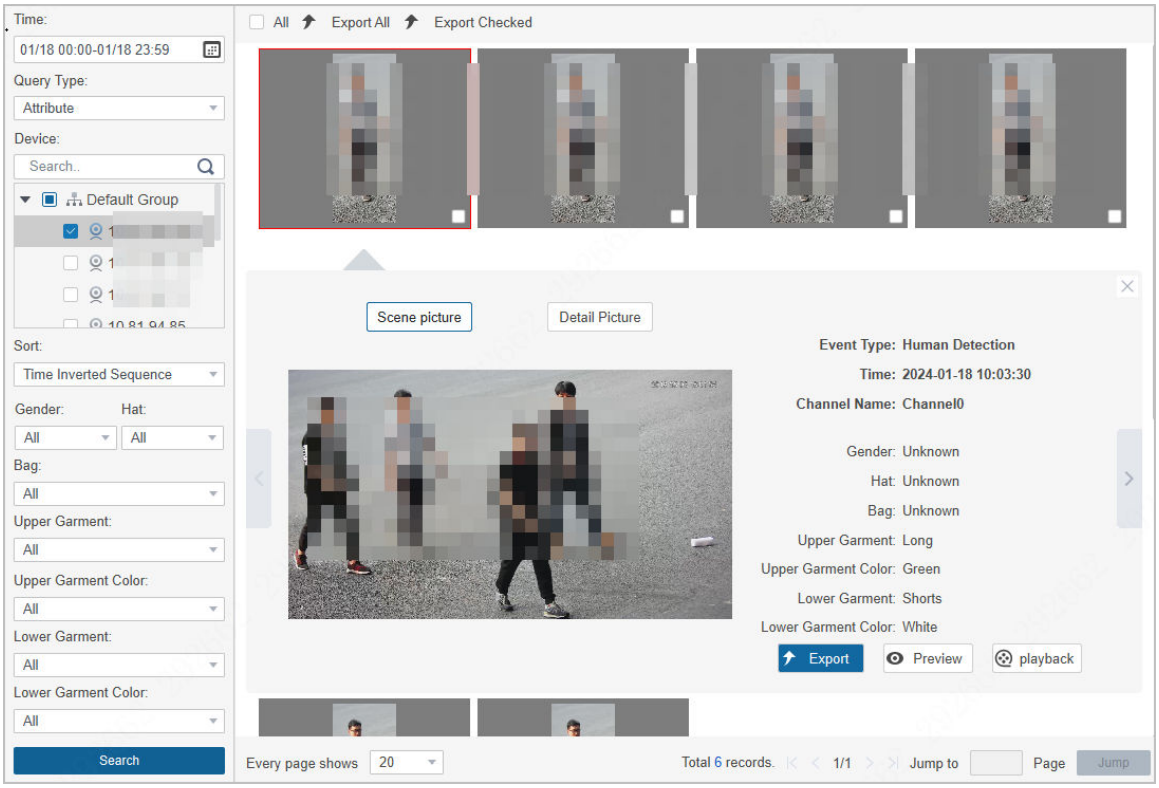
Step 1 On the home page, click **Data Retrieval**.

Step 2 Click **Body Search**.

Step 3 Select the time range, and then select the query type.

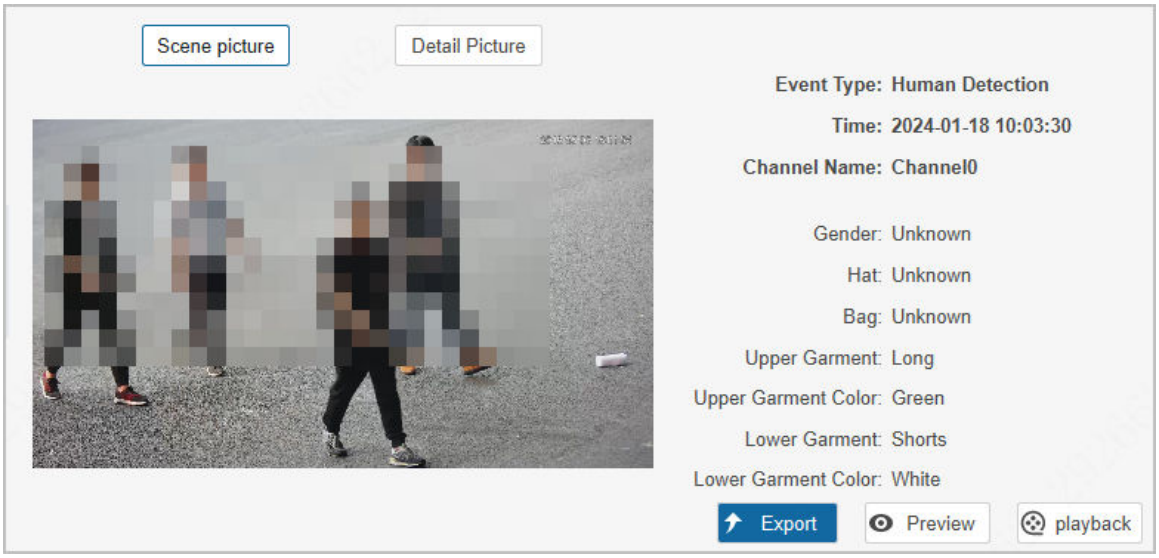
- Attribute: Search for human images according to body attributes.
  1. Select devices.
  2. Select a sorting method.
  3. Select other filters, such as gender, upper garment, upper garment color and more.
  4. Click **Search**.

Figure 11-6 Search by attributes



5. Click a snapshot to view the event details.

Figure 11-7 Event details



- ◇ Export: Exports the alarm event.
- ◇ Preview: View the live video.
- ◇ Playback: Replay the recording of the event.

- Picture: Search for find similar images available on the database by upload a human body image.

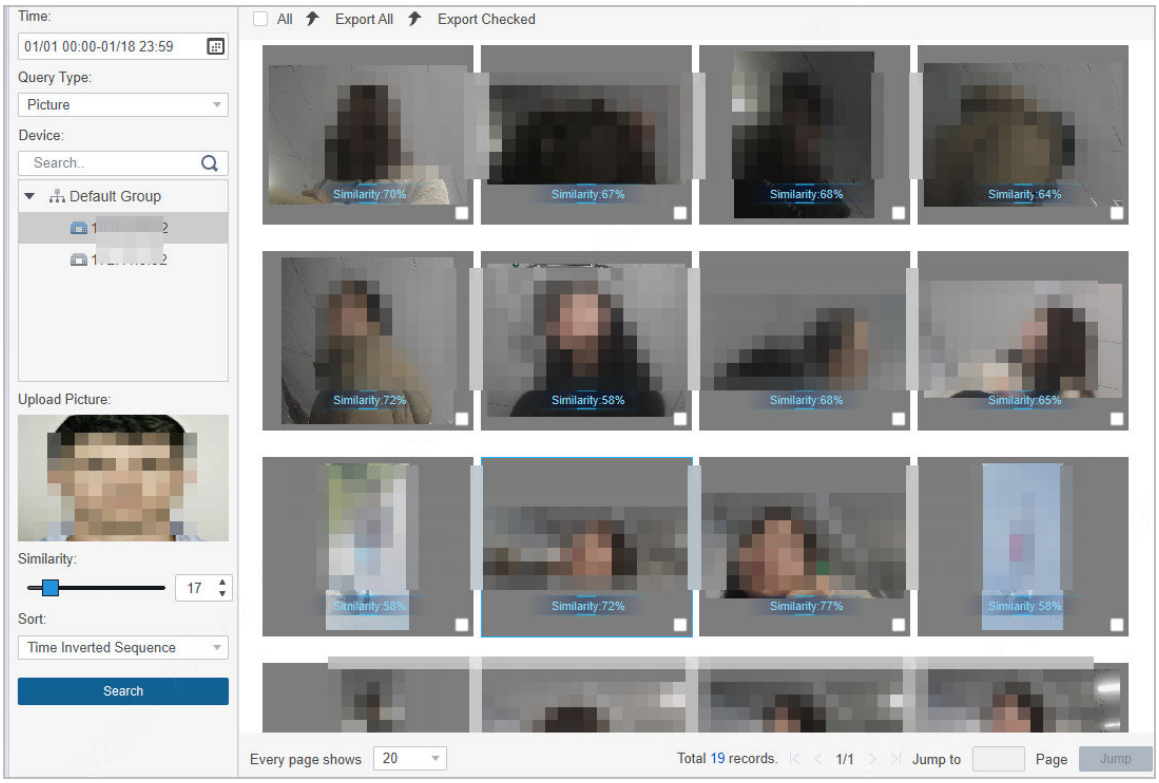
This function is only available on select devices.

1. Select a device.

2. Upload a human body image, and then set a similarity threshold.

   Only supports uploading images in jpg.
3. Select a sorting method, and then set other filters, such as gender, hat and more.
4. Click **Search**.

Figure 11-8 Search by picture



Related Operations

- Export All: Export all searched events.
- Exported Checked: Export the selected events.

12 E-Map

12.1 Configuring Map

Add devices and channels to the map to get an overall view of the whole area.

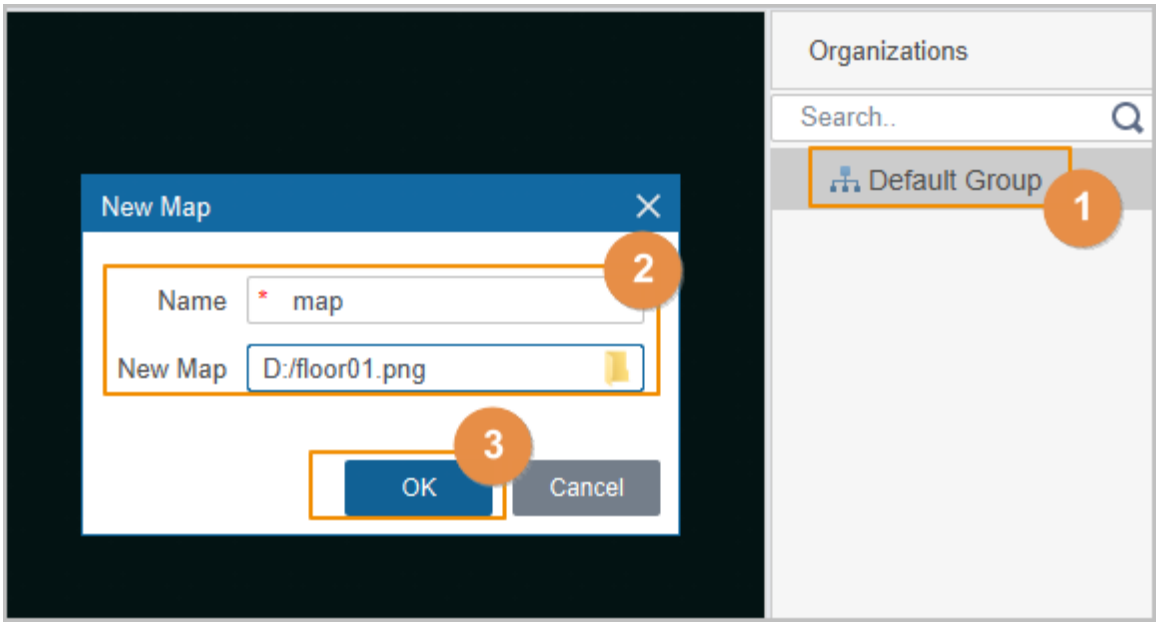
Procedure

Step 1 On the home page, click **E-map**.

Step 2 Right-click a group, and then click **New Map**.

Step 3 Enter the name of the map, upload a map, and then click **OK**.

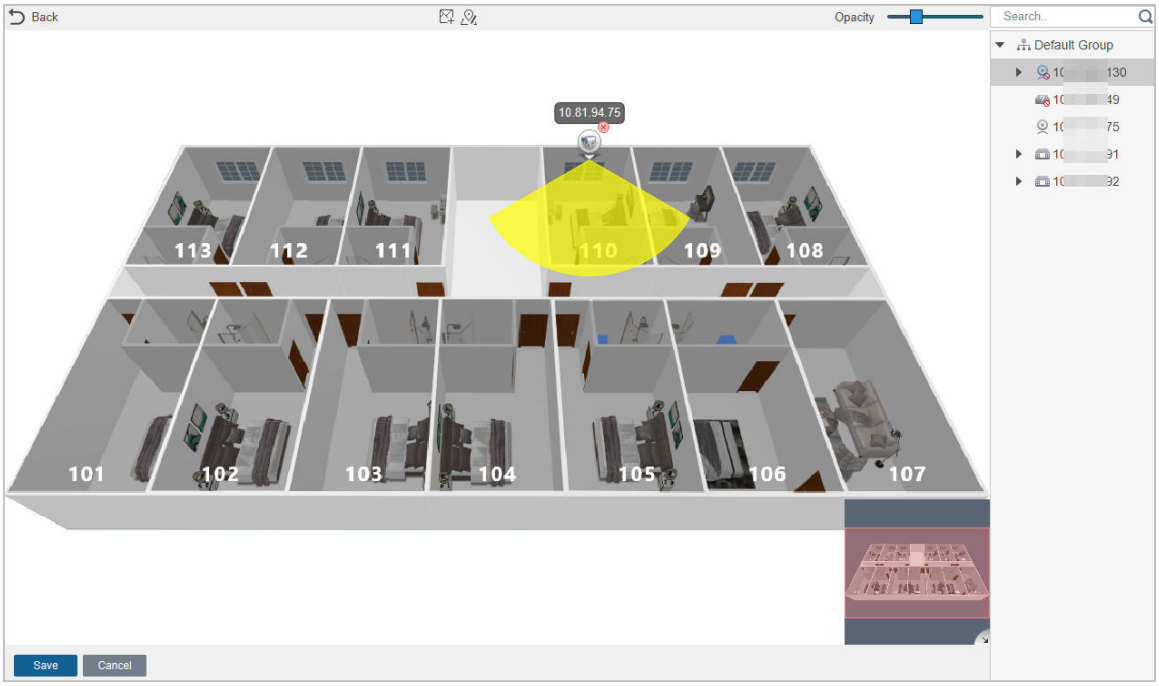
Figure 12-1 Create a map



Step 4 Drag devices or channels to the map.

You can click and to adjust the range.

Figure 12-2 Create a map



- : Add hot map to the existing map.
- : Edit the existing map.

Step 5 Click **Save**.

Step 6 Click **Back**, and then click the map.

You can right-click the map to edit, rename or delete the map.

Step 7 Click the video channel on the map, and then you can view the live video.

Figure 12-3 View live videos on the map

Related Operations

Configure tours. .

12.2 Configuring Map Tour

Tours allow the platform automatically monitor areas between different maps at a set order.

Procedure

Step 1 On the home page, click **E-map**.

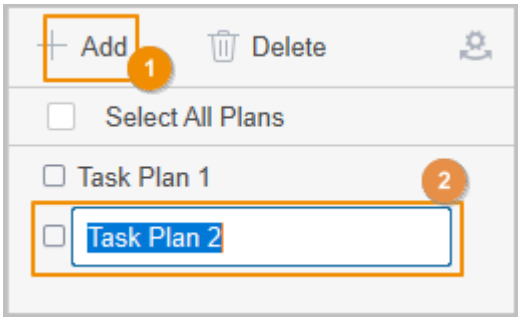
Step 2 Add a tour plan.

1. Click at the bottom of the screen.

Figure 12-4 Add tour plan (1)

2. Click **Add**, and then enter the name of the tour task plan.

Figure 12-5 Add tour plan (2)

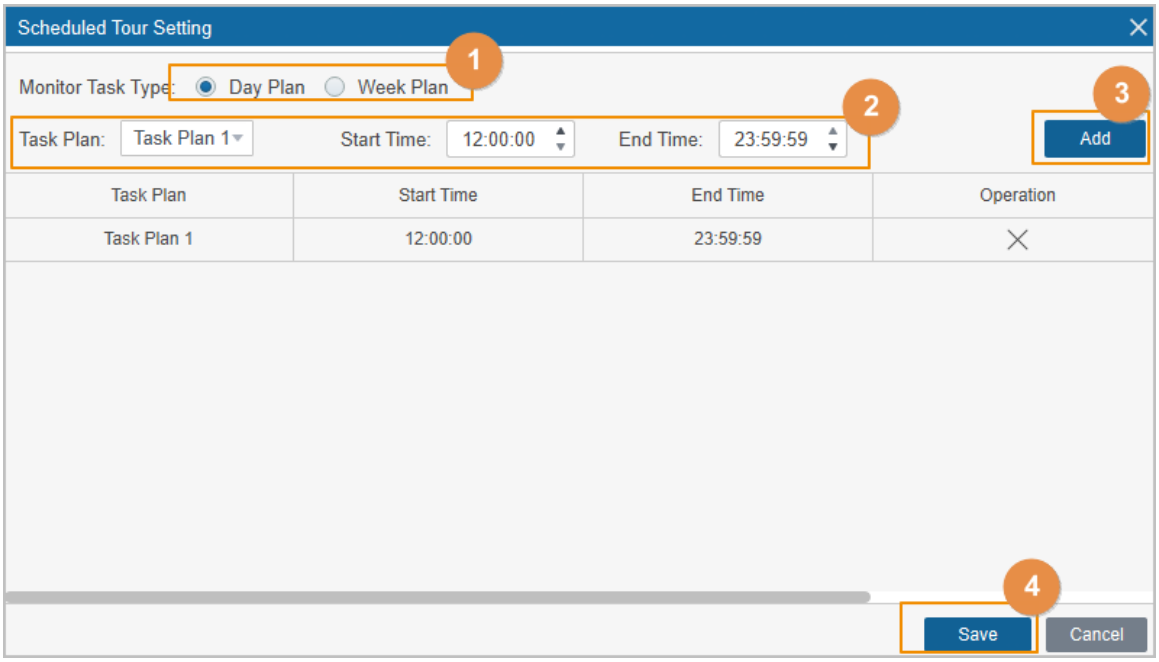


Step 3 Click to configure the schedule of the task plan.

1. Select **Day Plan** or **Week Plan** to configure a daily schedules or a weekly schedule.
2. Select a task plan, and then set the start time and the end time.

   You can schedule multiple task plans in a day, but the time cannot overlap.
3. Click **Add**.
4. Click **Apply**.

Figure 12-6 Schedule of the task plan



Step 4 Select a task plan, and then click .

Step 5 Drag maps to preview windows.

You drag multiple maps into the same preview window.

Step 6 Configure tour parameters.

Figure 12-7 Add tour tasks

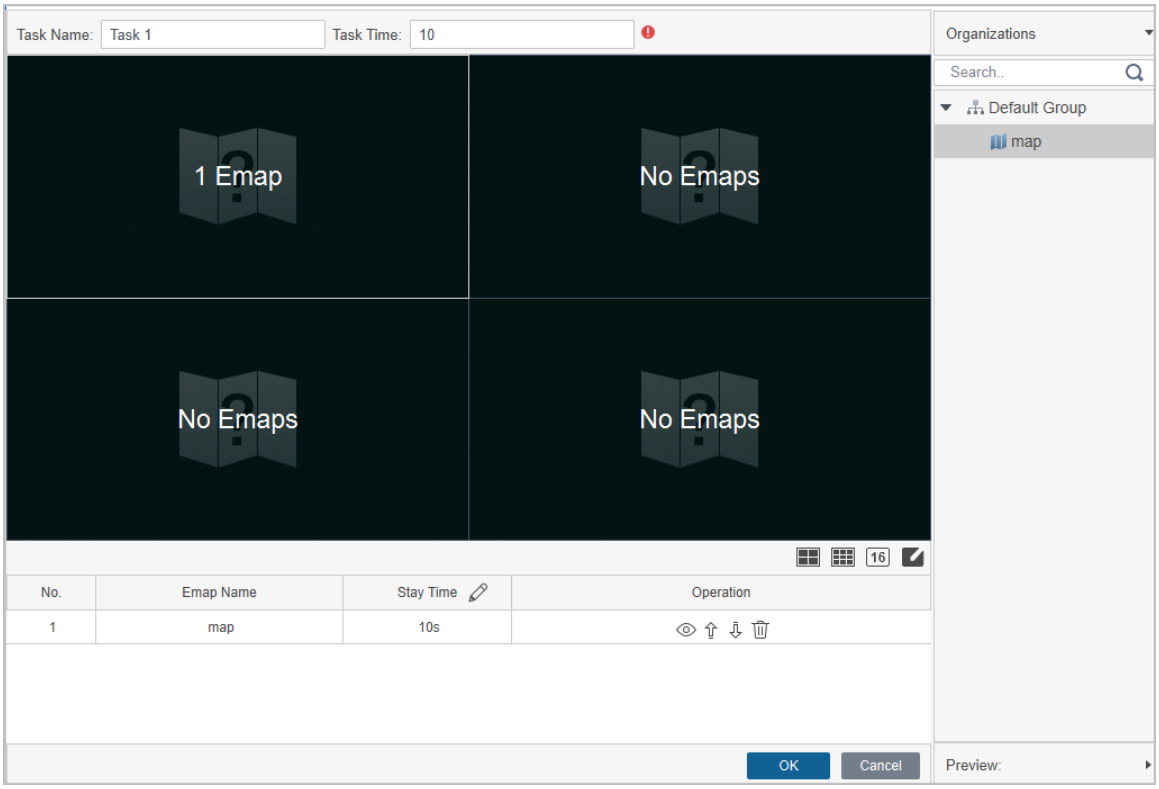


Table 12-1 Parameters description

Parameters/icon	Description
Emap Name	The name of the map.
Stay Time	Enter the amount of time you want to the preview window stays at this map for monitoring. You can drag and drop multiple maps to the same preview window, and the accumulated stay time of all channel must not exceed the task time.
Stream Time	Select a stream time for the video channel.
Operation	• Click to preview the video on the left side of the page. • Click to move up the channel. • Click to move down the channel. • Click to delete the channel.
	Customize window layouts.

Step 7 Select a tour task plan, and then click .

Figure 12-8 Start a tour

The tour runs immediately, and tours will repeat until manually be stopped by clicking again. You can also enable **Schedule Tour**, the tour task will perform at the scheduled time.

13 Event Center

13.1 Event Dashboard

View alarm events.

Procedure

Step 1 Select **Event Center** > **Event Record**.

Step 2 Select alarm types and devices.

Real-time alarm events will be displayed in the list.

Figure 13-1 Event dashboard (1)

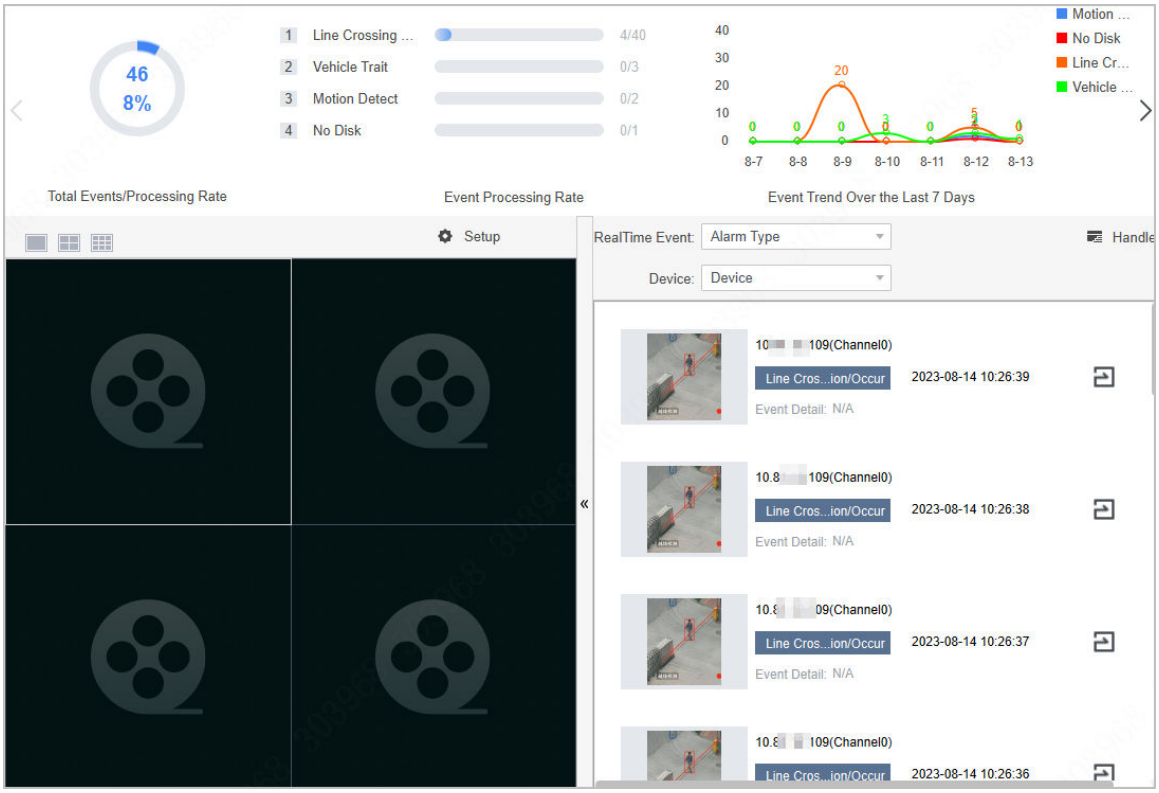


Figure 13-2 Event dashboard (2)

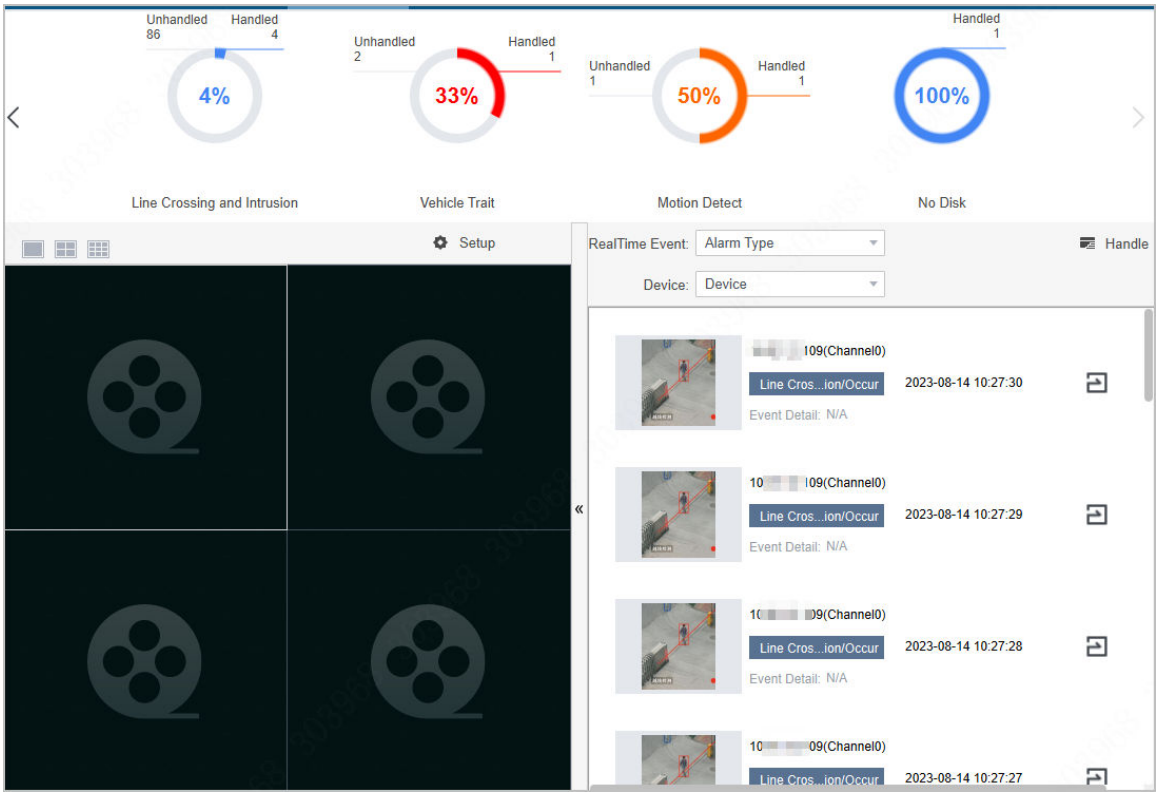


Table 13-1 Parameters Description

Parameters	Description
Total Events/Processing Rate	Display the number of the total events, and the processing rate = The handled events/ The total events.
Event Processing Rate	Displays the handled events/the total events of each event type.
Event Trend Over the Last 7 Days	Displays trends of different event types over the last 7 days. Hovering your mouse over an even type, the graph will reveals number, which reflects how many events occurred.

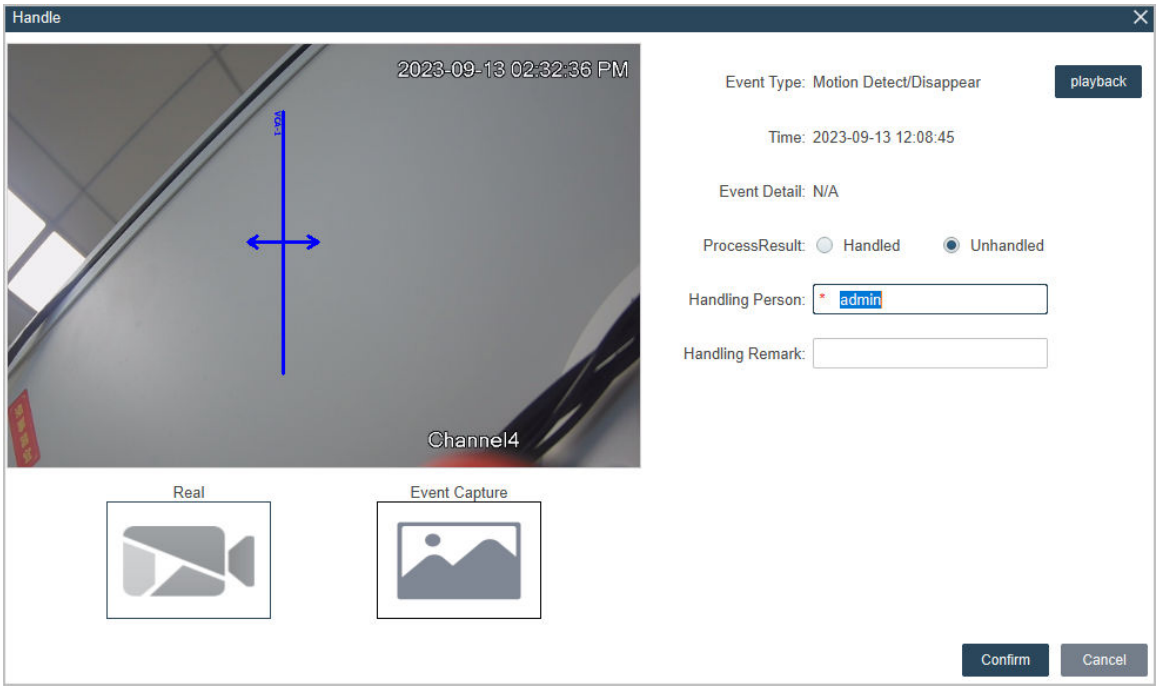
Step 3 Click a preview window, and then select a video channel.

The system automatically streams the video of the channel.

Step 4 Click to handle the alarm event.

1. Select the process result, enter the handling person, and then enter remarks.
2. Click **Confirm**.

Figure 13-3 Handle the alarm event



13.2 Event Record

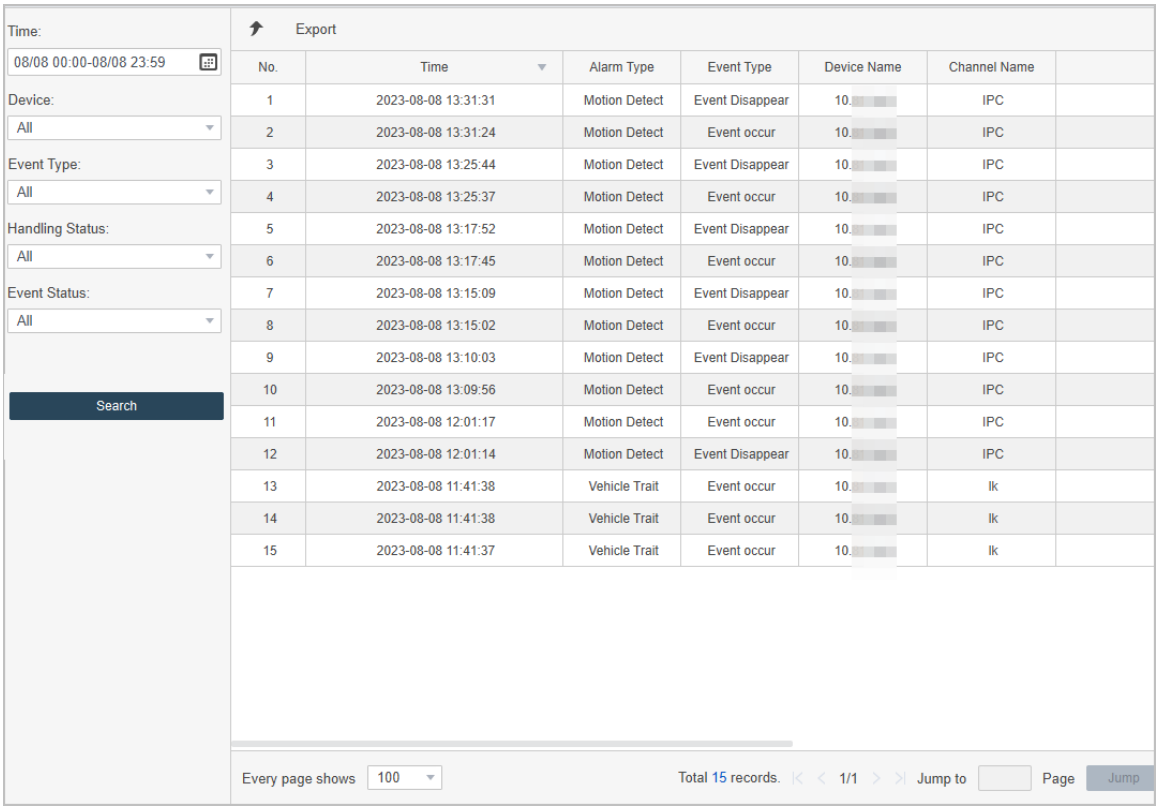
View alarm events.

Procedure

Step 1 Select **Event Center** > **Event Record**.

Step 2 Set search conditions, and then click **Search**.

Figure 13-4 Event center



Related Operations

You can click **Export** to export alarm events.

Appendix 1 Cybersecurity Recommendations

The necessary measures to ensure the basic cyber security of the platform:

1. **Use Strong Passwords**

   Please refer to the following suggestions to set passwords:

   - The length should not be less than 8 characters.
   - Include at least two types of characters; character types include upper and lower case letters, numbers and symbols.
   - Do not contain the account name or the account name in reverse order.
   - Do not use continuous characters, such as 123, abc, etc.
   - Do not use overlapped characters, such as 111, aaa, etc.

2. **Customize the Answer to the Security Question**

   The security question setting should ensure the difference of answers, choose different questions and customize different answers (all questions are prohibited from being set to the same answer) to reduce the risk of security question being guessed or cracked.

Recommendation measures to enhance platform cyber security:

1. **Enable Account Binding IP/MAC**

   It is recommended to enable the account binding IP/MAC mechanism, and configure the IP/MAC of the terminal where the commonly used client is located as an allowlist to further improve access security.

2. **Change Passwords Regularly**

   We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. **Turn On Account Lock Mechanism**

   The account lock function is enabled by default at the factory, and it is recommended to keep it on to protect the security of your account. After the attacker has failed multiple password attempts, the corresponding account and source IP will be locked.

4. **Reasonable Allocation of Accounts and Permissions**

   According to business and management needs, reasonably add new users, and reasonably allocate a minimum set of permissions for them.

5. **Close Non-essential Services and Restrict the Open Form of Essential Services**

   If not needed, it is recommended to turn off NetBIOS (port 137, 138, 139), SMB (port 445), remote desktop (port 3389) and other services under Windows, and Telnet (port 23) and SSH (port 22) under Linux. At the same time, close the database port to the outside or only open to a specific IP address, such as MySQL (port 3306), to reduce the risks faced by the platform.

6. **Patch the Operating System/Third Party Components**

   It is recommended to regularly detect security vulnerabilities in the operating system and third-party components, and apply official patches in time.

7. **Security Audit**

   - Check online users: It is recommended to check online users irregularly to identify whether there are illegal users logging in.
   - View the platform log: By viewing the log, you can get the IP information of the attempt to log in to the platform and the key operation information of the logged-in user.

8. **The Establishment of a Secure Network Environment**

   In order to better protect the security of the platform and reduce cyber security risks, it is recommended that:

   - Follow the principle of minimization, restrict the ports that the platform maps externally by firewalls or routers, and only map ports that are necessary for services.

- Based on actual network requirements, separate networks: if there is no communication requirement between the two subnets, it is recommended to use VLAN, gatekeeper, etc. to divide the network to achieve the effect of network isolation.