# Video Surveillance System

User Manual

Manual Version: V1.00

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## Conventions

- The figures, charts or photos in this manual are used for illustration only, which may differ from the actual product.
- Subject to uncertain factors such as the physical environment, actual values of some data may differ from the reference values described herein. In case of any doubt or dispute, the right of final interpretation resides with Uniview.
- Follow this manual when using the product. Professional guidance is recommended.
- Notational conventions used in this document are described as follows:

| Format | Description |
|---|---|
| **Boldface** | Indicates buttons, menus, tabs, window names, dialog names, and parameter names. For example, click **OK** or select **Device Management**. |
| " " | Indicates messages. For example, "Hanging Up" is displayed on the interface. |
| > | Directs you to go to a multi-level menu. For example, go to **Device Management** > **Add Device**. In this example, **Add Device** is a submenu under **Device Management**. |

- The symbols in the following table may be found in this manual. Carefully follow the instructions indicated by the symbols to avoid hazardous situations and use the product properly.

| Symbol | Description |
|---|---|
| **WARNING!** | Contains important safety instructions and indicates situations that could cause bodily injury. |
| **CAUTION!** | Means reader be careful and improper operations may cause damage or malfunction to product. |
| **NOTE!** | Means useful or supplemental information about the use of product. |

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# 1 Software Overview

The visual alarm management platform integrates various services such as video surveillance, alarm system, and access control intercom. It realizes an all-round and unified security control for parks, enhances users' ability to manage the overall security of parks, and makes prevention more efficient.

As shown in the figure below, the client graphic user interface (GUI) contains a menu bar, an operation area and a toolbar. **Application Center** lists functional cards. You can click a card to open the corresponding menu tab.

- You can drag a menu to display the corresponding tab as an independent window.
- You can hover the cursor over a menu tab and click the displayed to remove the tab from the menu bar.

Figure 1-1 GUI Layout

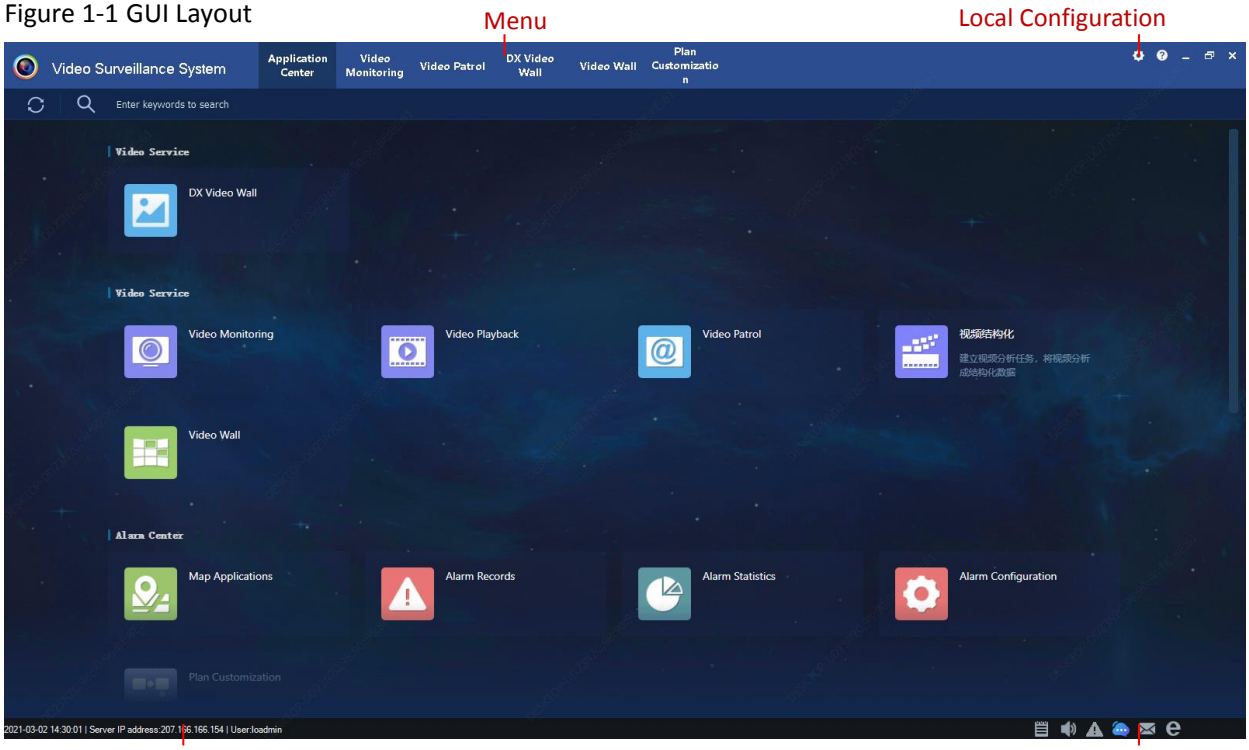



Table 1-1 Functions

| Item | Function | Description |
|---|---|---|
| Function modules | Video Service | Includes Video Surveillance, Video Playback, Video Patrol, Video Wall, and Splicing Video Wall. |
| | Alarm Center | Includes Map App, Alarm Record, Alarm Statistics, Alarm Configuration, and Plan Customization. |
| | Access Control Management | Includes Access Monitoring, Access Record, and Personnel Management. |
| | Service Configuration | Includes Device Management and Shortcut Apps. |

| Item | Function | Description |
| --- | --- | --- |
| | System Configuration | Includes App Management. |

# 2 Application Center

**Application Center** displays business function modules of the client in the form of cards. You can click a card to open the corresponding function tab.

- You can rapidly search for a function module by using the keyword.
- For detailed configuration of cards (adding a card, or changing the group, name, or style of a card), see App Management.

# 3 Watermark Setting

The system supports a full-screen watermark policy. The administrator can set the display of watermark information for certain users according to actual needs. Configurable watermark information includes whether to display the user name/IP address/system time/local MAC address, watermark density and watermark transparency.

### 1. Watermark configuration

To configure watermark, log in to the B/S client as the super administrator and configure as required (see the VM help for details). To make the watermark configuration effective, log in to the C/S client as the configured effective user.

**NOTE!**

For vehicle management services, you also need to select **Display watermark on vehicle pictures** under **Local Settings** > **Video Parameters** > **Others** on the C/S client. Then, displayed and exported vehicle pictures (except license plate images) will display full-screen watermark information.

### 2. Watermark display

After enabling watermark, you can overlap the watermark on the following videos/pictures:

- Slantingly display the full-screen watermark on the video playback screen and people/vehicle pictures (except locally imported videos/pictures without watermark).
- Display the watermark on downloaded videos and exported people/vehicles pictures.

**NOTE!**

Because the size of the downloaded picture is different from that of the picture displayed on the client, the position and quantity of displayed watermark may differ, but the watermark information is the same.

# 4 Local Configuration

Click in the upper right corner of the page to enter the **Local Configuration** page and set the client UI as well as video, alarm, and map parameters.

**NOTE!**

On the **Local Configuration** page, after you click **Save** to save the configuration, the current page remains, and you can continue to change other parameters. If you click **Cancel**, the configuration is not saved and the **Local Configuration** page is closed.

### 1. Customizing the client UI

The system enables you to customize the client logo, name and login background.

Before the configuration, enter local configuration or global configuration mode.

- Local configuration: The change is effective only on the current local client.
- Global configuration: The change is effective on all clients logging in to the server. Only the super administrator user can configure in this mode.

After the configuration, restart the client to make it effective.

Table 4-1 Parameters to Be Customized

| Parameter | Description |
|---|---|
| Logo customization | Customize the logo displayed on the client, including the icon on the client taskbar, that on the login interface, and that on the upper left corner of the interface after login.<br>Click **Browse**, select a picture on the local computer, and click **Save**.<br>**Note:**<br>The logo picture size must be smaller than 56x56 pixels. |
| Name customization | Customize the name displayed on the client UI.<br>• To use text, enter the new client name, and click **Save**.<br>• To use a picture, click **Browse**, select the picture on the local computer, and click **Save**.<br>**Note:**<br>The size of the picture to be used must be smaller than 192x56 pixels. |
| Login background customization | Customize the login screen background displayed on the client UI.<br>Click **Browse**, select a picture on the local computer, and click **Save**.<br>**Note:**<br>The size of the login background picture to be used must be smaller than 5000x5000 pixels. |

### 2. Configuring video parameters

Video parameter configuration covers recording playback, video parameters, playback pane control, snapshot, keyboard setting, PTZ control shortcuts, and others.

Table 4-2 Configuration Table of Recording Playback

| Parameter | Description |
|---|---|
| Download speed | Recording download speed |
| Download format | Format of the downloaded recording |
| Download save path | Path for saving downloaded recordings on the client PC |
| Download completion prompt tone | Prompt tone played or not when the selected recording is downloaded completely |
| Recording save path | Path for saving local recordings on the client PC |
| Start Continuous Play | Enabling continuous playback or not |
| Enabling frame preview | Displaying the preview of the frame or not when the cursor stops at a point on the progress bar on the playback pane |
| Slicing playback duration | Recording playback duration in case of recording slicing |
| Pre- and Post-Snapshot Playback | Recording playback duration in services like personnel arming or vehicle management<br>For example, if the value is set to 5s, recording in a total duration of 10s is played, 5s before and after the snapshot respectively. |
| More search conditions | Storage location and recording type selectable during recording search after they are enabled. |

Table 4-3 Configuration Table of Video Parameters

| Parameter | Description |
|---|---|
| Stream transmission protocol | • Self-adaptive: The client can receive UDP or TCP live view stream, which is automatically negotiated and confirmed by the system.<br>• TCP: It indicates whether the client receives TCP live view stream only. |
| Media service selection policy | • Self-adaptive: The system determines whether to transmit the live view media stream through an MS according to the media service selection policy of the coding device or foreign domain as well as MS deployment.<br>**Note:**<br>When an MS is available, and the media service selection policy of the front-end coding device or foreign domain is set to self-adaptive, the Direct Connection First policy is selected if the MS forwarding capability is insufficient.<br>• Direct Connection First:<br>o The local domain cameras do not forward the media stream through an MS by default. If the direction connections exceed the maximum value of the local domain, and the MS is available and the coders or network cameras allow media stream to pass the MS, the media stream is forwarded through the MS. Otherwise, the media stream is forwarded through direct connection without passing the local domain MS.<br>o For shared cameras in a foreign domain, if the direction connections do not exceed the maximum value of the local domain or child/sibling domain, the media stream is forwarded through direct connection. Otherwise, the media steam is forwarded through an available MS in the local domain. |

| Parameter | Description |
| --- | --- |
| Playback/Download service selection policy | Configure the playback/download service selection policy of the local domain.<br>• Self-adaptive: The system determines whether to play back or download media stream through an MS according to the MS deployment. If no MS is available, stream is not forwarded through MS. If an MS is available, stream is forwarded through the MS.<br>• Skip the MS: The playback/download stream of the local domain skips the MS. |
| Recording Playback Transmission Protocol | Transmission protocol for playing back recording data on the client PC.<br>The default protocol is UDP. If network environment is poor, TCP is recommended. |
| Recording download protocol | Transmission protocol for downloading recording on the client PC.<br>The default protocol is UDP. If network environment is poor, TCP is recommended. |
| Two-way Audio Service Policy | Configure the two-way audio service policy.<br>• Self-adaptive: The system determines whether to forward two-way audio service media stream through an MS according to the MS deployment. If no MS is available, stream is not forwarded through MS. If an MS is available, stream is forwarded through the MS.<br>• Skip MS: Two-way audio service media stream is not forwarded through the MS. |
| Window display quality | • If the display adapter of the client PC supports Direct 3D, you are advised to select **High Quality** to achieve better image display effects.<br>• If the hardware acceleration function is not enabled for the client, you are advised to select **Low quality**. |
| Processing mode | The default mode is time first.<br>• When the network environment is good, you are advised to select time first.<br>• When delay occurs to the network, you are advised to select smooth first.<br>• To guarantee real-timeliness, you are advised to select self-adaptive.<br>• To require a live view delay lower than the delay in time-first mode, you are advised to select ultra-low delay. |
| Out-of-Order Correction | • Enabling out-of-sequence sort: When out-of-sequence sort is enabled, the system determines whether the received TS or RTP stream is out of sequence. If yes, the system sorts it. In general, after out-of-sequence sort, you will achieve better image quality and smoothness, but slight delay occurs.<br>• Disabling out-of-sequence sort: When out-of-sequence sort is disabled, the system does not determine whether the received TS or RTP stream is out of sequence and does not sort it. In this case, videos may not be played smoothly. |
| Anti Packet Loss | By default, this function is disabled.<br>• If image freezing or other problems are caused by packet loss, you are advised to enable this function which may cause slight latency. |
| NAT Configuration | If the application layer firewall (ALG) is enabled, the user should set the NAT items according to the actual situation. |
| Enable multicast | It determines whether all the video play panes on the client PC support multicast. |

Table 4-4 Configuration Table of Play Window Control

| Parameter | Description |
| --- | --- |
| Enable Auto stream switching | When stream switchover is enabled: |

| Parameter | Description |
| --- | --- |
| Stream switching Windows | • If the number of live video playback panes is equal to or smaller than **Stream switch panes**, the main stream is played.<br>• If the number of live video playback panes is greater than **Stream switch panes**, the sub stream is automatically switched to. |
| Maximum play channels | Maximum channels for live video play |
| Error Message duration | Duration when an error prompt is displayed on the page |
| Default Windows | Default quantity of live view panes |
| Enable PTZ control by mouse | After this function is enabled, you can use the mouse to control the PTZ. |
| Enable live view restore | After this function is enabled, when you close the client and open the client again, the live view interface displays the live view unclosed last time. |
| Enable Window dragging by mouse | After this function is enabled, you can use the mouse to drag play panes. |

Table 4-5 Snapshot Configuration Table

| Parameter | Description |
| --- | --- |
| Path for saving snapshots | Path for saving the snapshots on the client PC |
| Snapshot format | Captured image file format |
| Continuous snapshot interval | Interval between continuous snapshots |
| Continuous snapshot quantity | Quantity of continuous snapshots |
| Snapshot prompt tone | Prompt tone played or not when images are captured |
| Snapshot completion prompt | Prompt message displayed or not after snapshot success |

Table 4-6 Configuration Table of PTZ Control Shortcut Keys

| Parameter | Description |
| --- | --- |
| Setting of PTZ control shortcut keys | Customize shortcut keys for PTZ control, including direction control, patrol stop, preset position, focus, zoom, and iris.<br>**Note:**<br>• You can customize shortcut keys to only the first nine preset positions.<br>• Shortcut keys support only English letters (A–Z), numbers (1–9), or symbols (+ or -). The three types of characters can be used separately or together with the Ctrl or Shift key, but cannot be combined with each other. |

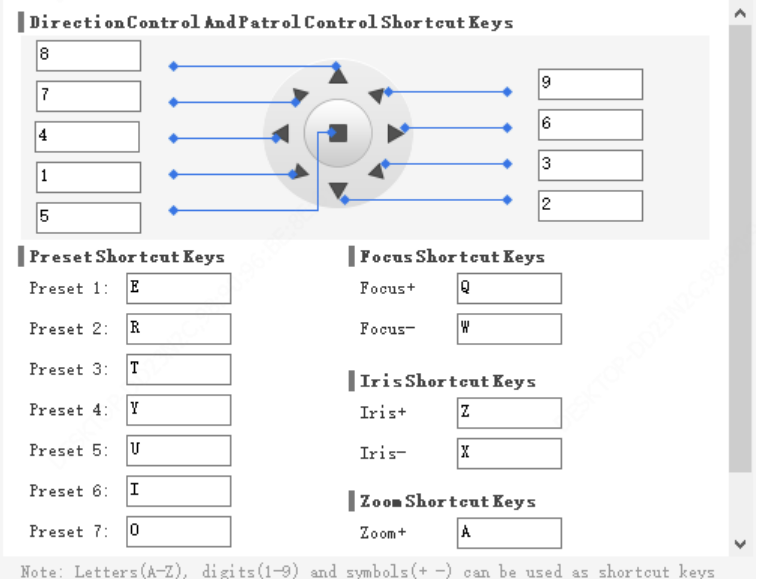
| Parameter | Description |
|---|---|
| |  |

Table 4-7 Configuration Table of Other Parameters

| Parameter | Description |
|---|---|
| Digital Zoom Mode | • Small Window: Zoom in the small pane in the upper left corner of the current pane.<br>• Large Window: Directly zoom in the current pane. |
| Enable packet loss alarm | After this function is enabled, if packet loss occurs in live view, the packet loss rate will be displayed on the live view pane. |
| Enable Dynamic Visual Area | After this function is enabled, when the visual angle, direction, and visual distance of a camera is changed, the viewshed on the map is synchronized. |
| Enable multi-process playing | After this function is enabled, is hidden in the taskbar of the computer.<br>You can hover the cursor over the icon to display the size of the client video playback data in the virtual memory of the current PC.<br>You can right-click the icon and choose **Close all videos** to close all videos currently playing on the client. |
| Enable multi-core decoding | After this function is enabled, video decoding will be accelerated. This function will take up the CPU. You are advised to enable it when play at multiple speeds is required for high-resolution cameras.<br>**Note:**<br>• Only H.264 videos are supported.<br>• Decoding switch is unavailable for videos being played, and takes effect when the live view is restarted or played back. |
| Enable video overlay | After this function is enabled, when you play the live video of a structured camera, properties of motor vehicles, non-motorized vehicles, and pedestrians will be overlaid on the screen. |
| Alarm-triggered live vedio | After this function is enabled, when an alarm is generated, the live video of the linked camera will be automatically played. |
| Platform Pop-up Alarm | After this function is enabled, when the VM generates an alarm, a prompt dialog box will |

| Parameter | Description |
| --- | --- |
| Window | be triggered on the client. |
| Visual area query cycle | The viewshed refreshes at the configured interval. |
| Max image obtainment delay | If obtaining an image address times out, failure is returned. |
| Network link read/write timeout period | Service read/write time<br>If service read/write is not complete in the period, the service process is exited. |
| Network link response timeout | Service response time<br>If a service is not responded in the period, the service process is exited. |

### 3. Configuring alarm parameters

Table 4-8 Configuration Table of Alarm Parameters

| Parameter | Description |
| --- | --- |
| Alarm-triggered live video | After this function is enabled, when a third-party device bound to a camera generates an alarm, the linked live video will be automatically played. |
| Defense zone Selected for Alarming | After this function is enabled, when an alarm is reported, the system switches to the map of the defense zone of the alarm device. |
| Filter Alarm Priority | The defense zone map is switched only when an alarm at the selected level is reported.<br>**Note:**<br>This parameter can be configured when **Defense zone Selected for Alarming** is enabled. |
| Alarm device centered map | When the defense zone map is switched, the alarm device is centered.<br>**Note:**<br>This parameter can be configured when **Defense zone switching upon alarm report** is enabled. |
| Enable audio alarm | After this function is enabled, when an alarm is generated, the configured alarm sound is played as a reminder. |
| Enable snapshot for access control alarm | After this function is enabled, when an access control alarm is generated, snapshot is triggered. |
| Customize alarm sound | Click **Browse** and select an audio file to customize the alarm sound. |
| Alarm blinking | The external alarm indicator blinks only when an alarm at the selected level is reported. |
| Recording playback interval | Recording playback duration for alarm processing. For example, if the value is set to 5s, recording in a total duration of 10s is played, 5s before and after the alarm respectively. |
| Recording export interval | Recording export duration for alarm processing. For example, if the value is set to 30s, recording in a total duration of 60s is exported, 30s before and after the alarm respectively. |

4. Configuring map parameters

Table 4-9 Configuration Table of Map Parameters

| Parameter | | Description |
|---|---|---|
| Configure Planar Map | Display line of associated devices | After this function is enabled, the map displays a line between two associated devices, such as an access controller and a camera. |
| | Full display of JPG map | Select **Fill** to display the map on the full pane.<br>Select **Adaptive** to display the map in the original scale. |

5. Changing password

Enter the original password and new password, and confirm the new password to change the password of the current user.

# 5 Video Service

Video services include video surveillance, video playback, video patrol, and video wall.

## 5.1 Video Monitoring

On the **Video Monitoring** page, you can check live videos of cameras.

**NOTE!**

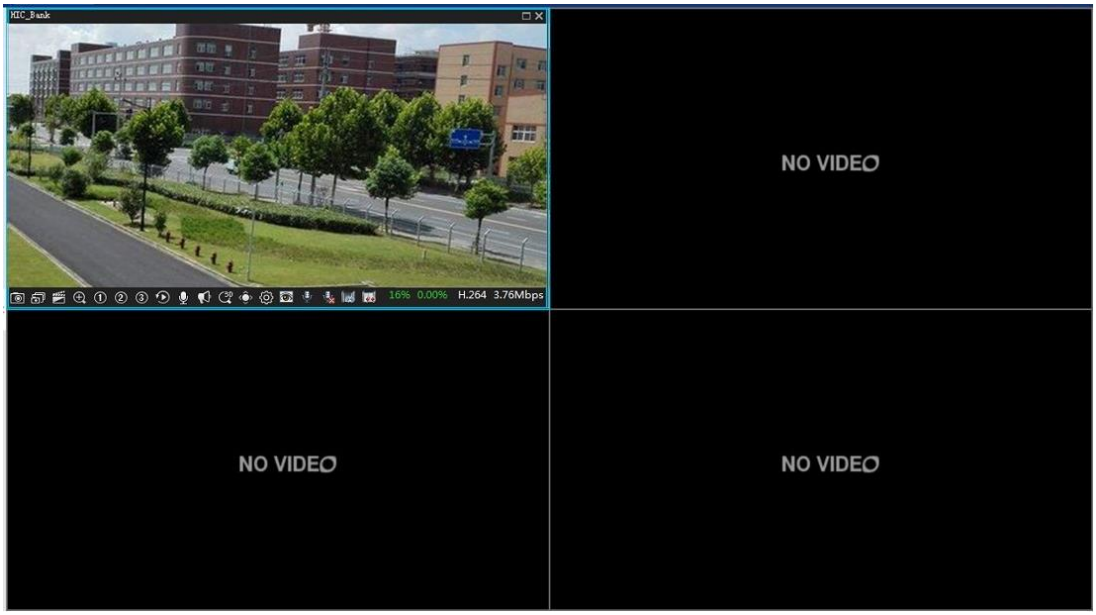
Switching, group display, scene, and sequencing functions are available only when the related services are configured on the B/S client. For details, see the VM Help.

### 5.1.1 Live View

Live video resources supported by the system include cameras, switching, group display, sequencing, and scenes.

1. Playing live video

Figure 5-1 Live View




- **Camera**: Double-click a video or drag a video to the video play pane to view it.
- **Switching**: Drag a video to the video play pane to view it.
- **Group Display**: Right-click a video and select **Start** from the shortcut menu, or drag a video to the video play pane to view it.
- **Sequencing**: Right-click a video and select **Start** from the shortcut menu. Then, the video is added to the video play pane and its live view is available.
- **Scene**: Double-click a video, or right-click a video and select **Start** from the shortcut menu. Then, the video is added to the video play pane and its live view is available.
- **Box-dome linkage**: Double-click a video or drag a video to the video play pane to view it.

### 2. Dragging a pane

Drag a live view pane by pressing and holding the left mouse button to any pane. To enable and disable this function, see Local Settings.

**NOTE!**
When group display, sequencing, automatic layout sequencing, or fisheye correction function is used, the video play pane cannot be dragged.

Figure 5-2 Dragging a Live View Pane

### 3. Viewing live view status

The live view status is displayed in the lower right corner of the video play pane, including the CPU usage, packet loss rate, encoding format, and bit rate.

Figure 5-3 Live View

## 5.1.2 Live View Operations

### 1. Shortcut menus

Right-click on the live view pane. You can select **Close**, **Close All**, **Maximize**, **Full Screen**, **Image Display Ratio**, and other shortcut menus.

Table 5-1 Shortcut Menus

| Function | Description |
|---|---|
| Close | Close the current live view pane. |
| Close All | Close all the live view panes. |
| Maximize/Restore | Maximize the current pane to cover all the panes.<br>**Note:**<br>Alternatively, you can double-click the live view pane to maximize/restore it. |
| Full screen | Display the live view in full screen without displaying the menu bar or resource tree. |
| Image Parameter Adjustment | Open the image parameter adjustment panel, and configure video image parameters to improve the image quality. For details, see Image Parameter Adjustment. |
| Image Display Ratio | **Full Pane**: The image covers the entire playing pane.<br>**Scale**: The image is displayed in the original proportion. |
| Layout switching | The video play pane can be set to 1 pane, 4 panes, 6 panes, 8 panes, 9 panes, 10 panes, 13 panes, 16 panes, 17 panes, and 25 panes. |
| Corridor mode | The video play pane can be switched to 113, 111, 313, 311, and 131 corridor modes. |

## 2. Toolbar

You can select corresponding icons on the toolbar to take a snapshot, make a local recording, perform digital zoom in, and implement intercom.

Figure 5-4 Live View Toolbar

The actual buttons on the toolbar shall prevail. The table below describes the functions of the buttons.

Table 5-2 Live View Toolbar Description

| Icon | Function | Description |
|---|---|---|
| | Capture | Take a snapshot of the live video being played on the current pane and save it locally. When the snapshot is previewed, **Save as** is available. |
| | Continuous snapshot | Interval and quantity of continuous snapshot can be set in Local Settings. |
| | Local recording | Record the live video played on the current pane to the local device. Click the icon again to stop local recording.<br>You can set the path for saving the recording in Local Settings. |

| | | |
|---|---|---|
| | Digital zoom in | Digital zoom in<br>Click this icon to amplify the partial image of the video being played on the current pane. There are two zoom in manners:<br>• Large pane: Move the mouse wheel to zoom in/out the image. Click the icon again to stop zoom in.<br>To support this operation, you need to select **Large Pane** as the digital zoom in mode in Local Settings.<br>• Small pane: On the small pane, click the part to be viewed, and move the mouse wheel. The amplified image is displayed on the large pane.<br>To support this operation, you need to select **Small Pane** as digital zoom in mode in Local Settings. |
| | Preset | Preset position keys. The digit represents the corresponding sequence number of the preset position, and the preset position digits correspond to the 1 to 9 digit keys on the keyboard. |
| | Instant playback | Play the recording from the current time point to the previous 6 hours if such a recording is available. |
| | Intercom | Enable intercom. |
| | Broadcast | Enable broadcast. |
| | 3D positioning | Click it to position cameras in 3D manner. The following operations are supported:<br>• Clicking the icon to position cameras: Enable 3D positioning. The icon changes into . Click on the video being played. The PTZ camera rotates, and takes the clicked position as the center.<br>• Pulling a box to zoom in/out the video being played: Enable 3D positioning. The icon changes into . On the video being played, press and hold the left mouse button to pull a box from the upper left to the lower right to zoom in the area in the box. Pull a box from the lower right to the upper left to zoom out the area.<br>**Note:**<br>When 3D positioning is not enabled, you can also press and hold **Ctrl** when clicking the left mouse button to pull a box to zoom in/out the video. |
| | Image parameter adjustment | Click this icon to open the image parameter adjustment panel, and configure video image parameters to improve the image quality. |
| | Violation events | When detecting a violation event during live view or playback, surveillance personnel can click this icon to quickly take a snapshot, generate an alarm, and report the violation event. |
| | Reverse intercom/ disable intercom | Select the host and extensions, select broadcast or call an extension, and click **Call** for voice intercom. |
| | Open/Close the door | Remotely open/close the door through the access controller bound to the camera. |
| | Motorized lens camera control | Click this icon to expand the control panel of the motorized lens camera for zooming and focusing.<br>**Note:**<br>This operation is valid only to cameras with motorized lenses. For the specific product models, contact our sellers. |

| | | |
|---|---|---|
| | PTZ control | Click this icon to expand the control panel. On the control panel, you can edit the focus, aperture, PTZ direction, speed, preset position, patrol route, and other parameters.<br>**Note:**<br>This operation is available only to PTZ cameras.<br> |
| | Fisheye correction | Click this icon to expand the control panel. You can select different correction manners according to the installation modes of the fisheye cameras.<br>**Note:**<br>This operation is valid only to fisheye cameras of the specific models. For the specific product models, contact our sellers. |

### 3. Image parameter adjustment

Click on the live view toolbar, or right-click the live view pane and select **Image Settings**. On the **Image Settings** page, you can adjust video image parameters to improve the image quality.

- **Camera parameter**: Adjust the contrast, hue, saturation, and brightness for images collected by the camera. To restore default parameter values, click **Restore defaults**.

**NOTE!**
Only cameras accessed in the UNV proprietary protocol support the adjustment of camera parameters.

- **Window Parameter**: Adjusts the image parameters of the video being played on the pane. Select the corresponding parameter items to adjust the detailed parameter values.
  - **Image adjustment**: Sets the contrast, hue, saturation, brightness, and Gamma value for decoded images.
  - **Haze reduction**: Adjusts the dark area and bright area of images to remove the fog effect.
  - **Dynamic contrast enhancement**: Sets the soft or bright mode and the intensity to enhance the image layering.
  - **Sharpening**: Sharpens images.
  - **Anti-flicker**: Reduces image noises.
  - **Static clarity**: Adjusts static images to enhance the image clarity.
  - **Barrel distortion correction**: Corrects images with barrel distortion to make the images closer to true situation.
- **Anti-aliasing /Eliminate double image**: If jagged edges occur on oblique borders (they may occur on decoding devices with the resolution of 4CIF, D1, or 1080I), or double images occur on the vertical borders of images during horizontal movement, click **Anti-aliasing** or **Eliminate double**

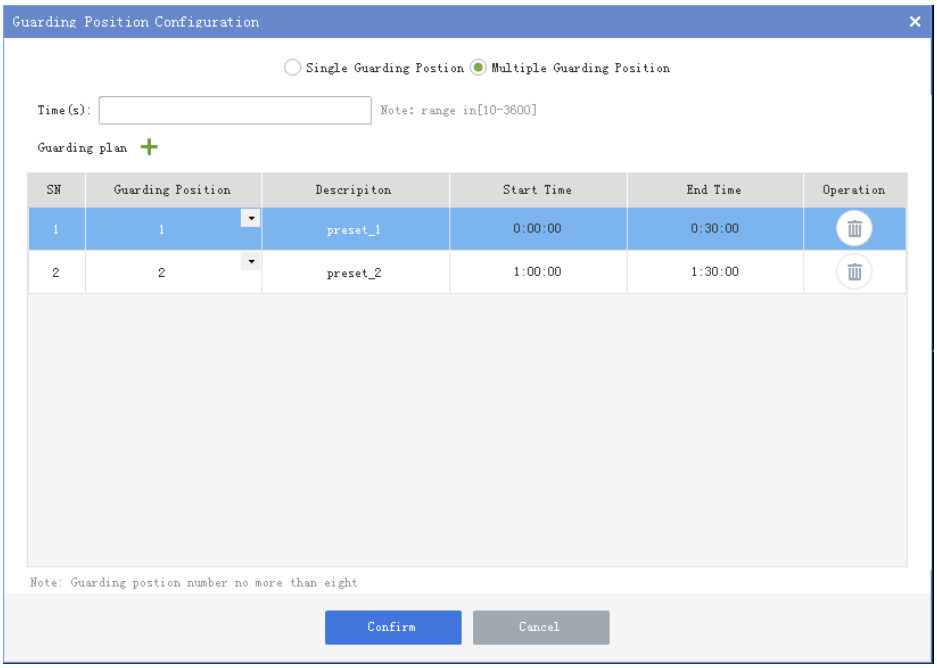
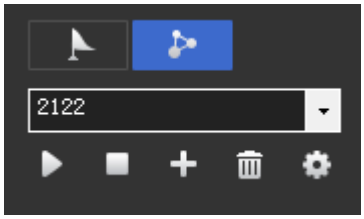
**image** as required to improve the image quality.

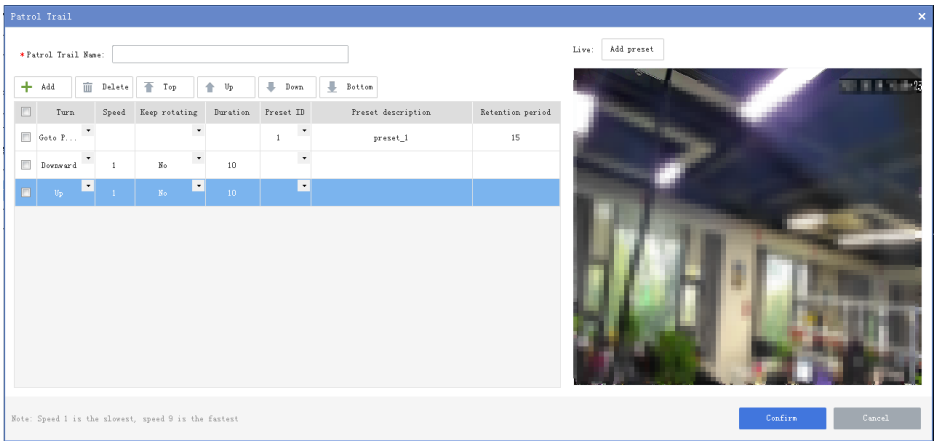
### 4. PTZ control

On the **Video Monitoring** page, select an online PTZ camera from the resource list on the left, and drag it to a live view pane to play it. On the live view toolbar, click to expand the PTZ control panel.

Table 5-3 PTZ Control Panel Operations

<table>
<tr><th>Icon</th><th colspan="2">Function</th></tr>
<tr><td> </td><td colspan="2">Lock or unlock PTZ<br>• No one except a super administrator can control a locked PTZ unless the PTZ is unlocked or PTZ Release Time expires.<br>• When a PTZ is unlocked, a user with a higher priority can control the PTZ.<br>• A GB compliant upper-level domain can lock the PTZ in a lower-level domain.<br>Note:<br>• You can seek control of PTZ before any operation is performed on the PTZ camera. By default, the user with a higher priority can preempt a PTZ. If two users have the same priorities, the user in an upper-level domain can preempt the PTZ. Otherwise, the first come first served rule is adopted. The priority of a user in the local domain refers to his/her role priority. The priority of a user in an foreign domain refers to the role priority in that domain.<br>• For how to configure the PTZ preemption policy and PTZ automatic release time, see the VM Help.</td></tr>
<tr><td> </td><td colspan="2">Release PTZ<br>• After a PTZ is released, the PTZ is in idle state. A user at any level can control it without the need for preemption.<br>• After the PTZ is released, the locked PTZ is unlocked automatically.</td></tr>
<tr><td rowspan="3"> </td><td colspan="2">Preset position: You can set an important angle or position within the monitoring range of the camera as a preset position. When a PTZ is not operated for a long time, it will automatically go to a preset position for monitoring.<br>Click this icon to switch to the preset position operation panel.<br> </td></tr>
<tr><td> </td><td>Go to preset position.<br>Rotate PTZ to the selected preset.</td></tr>
<tr><td> </td><td>Add a preset position<br>Add a preset position to the camera in the local domain and foreign domain. That is, add the position to the preset position list according to the current PTZ state.<br>Note:<br>The newly input preset position number cannot be the same as an existing one. Otherwise, it will replace the existing preset position number.</td></tr>
<tr><td> </td><td>Delete a preset position</td></tr>
</table>

| | | |
|---|---|---|
| | | Set the home position: The home position is the preset position to which the dome camera rotates after the PTZ control authority is released.<br>• Set the home position for PTZ camera and set **Auto Back Home Time**. The new preset is set as the home position by default. You can set an existing preset as the home position.<br>• When PTZ camera rotates to a position that is not the home position, the camera will go back to the home position if the PTZ control is released and no user operates the camera during the auto back home time.<br>• When you set the home position, you can set the home position mode to single home position or multiple home positions. If there are multiple home positions, you can set the home position plan. In each home position plan, up to eight time segments can be set and the home position corresponding to each time segment can be selected for many times.<br>• If the home position has existed, the existing one will be replaced.<br>  |
| | | Configure high and low linkage.<br>Set the high and low linkage positions on the live view screen. Click the preset position to start linkage with the associated camera. For the relevant configuration, see High & low linkage. |
| | Patrol route: The camera rotates according to a series of preset actions.<br>Click this icon to switch to the patrol route operation panel.<br>  | |
| | | Start patrol. |
| | | Stop patrol |

| | | |
|---|---|---|
| | | Add a patrol route.<br>Click this icon to add a patrol route on the displayed **Patrol Route** page.<br>• To go to a preset position, set the preset position code/description and the stay time at the preset position (15s to 1800s).<br>• To rotate up/down/left/right, set the rotation speed, whether to keep rotating, and the rotation duration (5s to 300s).<br>**Note:**<br>• A patrol route needs to contain at least two actions, including going to a preset position and rotating up/down/left/right. In particular, if the action is keeping rotating up/down/left/right, a patrol route can contain only one action.<br>• If the action is keeping rotating up/down/left/right, no other actions will be performed.<br>  |
| | | Delete a patrol route. |
| | | Edit a patrol route. |
| | | Control the rotation direction (the triangle buttons around the round disk) of the PTZ and stop patrol (the square button in the center of the round disk).<br>**Note:**<br>You can use keyboard shortcuts to control the rotation direction and stop patrol. For custom settings of shortcuts, see Local Settings. |
| | | Increase/decrease focus.<br>**Note:**<br>You can use keyboard shortcuts to increase and decrease focus. For custom settings of shortcuts, see Local Settings. |
| | | Zoom in/zoom out a recording.<br>**Note:**<br>You can use keyboard shortcuts to zoom in/out a recording. For custom settings of shortcuts, see Local Settings. |
| | | Increase/decrease aperture.<br>**Note:**<br>You can use keyboard shortcuts to increase and decrease aperture. For custom settings of shortcuts, see Local Settings. |

| | |
|---|---|
| | PTZ rotation speed<br>**Note:**<br>The system provides a total of 9 steps, step 1 to step 9, step 1 being slowest and step 9 being fastest. |
| | It is the illumination switch. When the illumination switch is on, this icon turns blue. |
| | It is the wiper switch. When the wiper switch is on, this icon turns blue. |
| | It is the IR switch. When the IR switch is on, this icon turns blue. |
| | It is the heating switch. When the heating switch is on, this icon turns blue. |

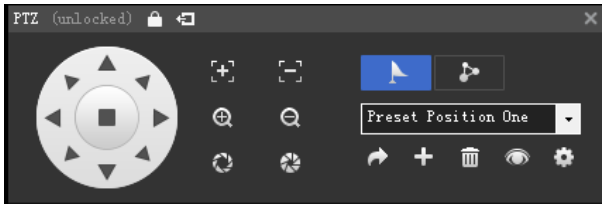
## 5. High & low linkage

You can set the high and low linkage positions on the live view screen. Click the preset position to start linkage to the associated camera.

The procedure is as follows:

(1) Select a PTZ camera, and then click to open the PTZ control panel.

Figure 5-5 PTZ Control Panel

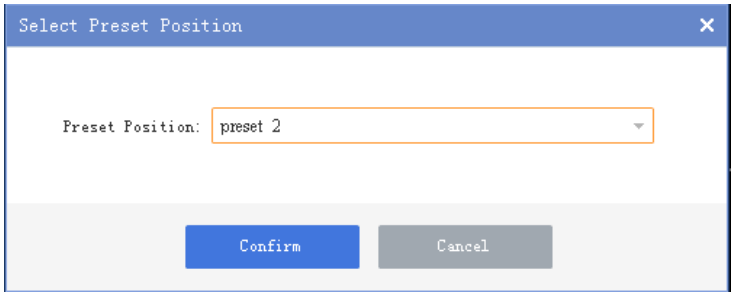



(2) Click to fill in the preset position code and description.

Figure 5-6 Adding a Preset Position

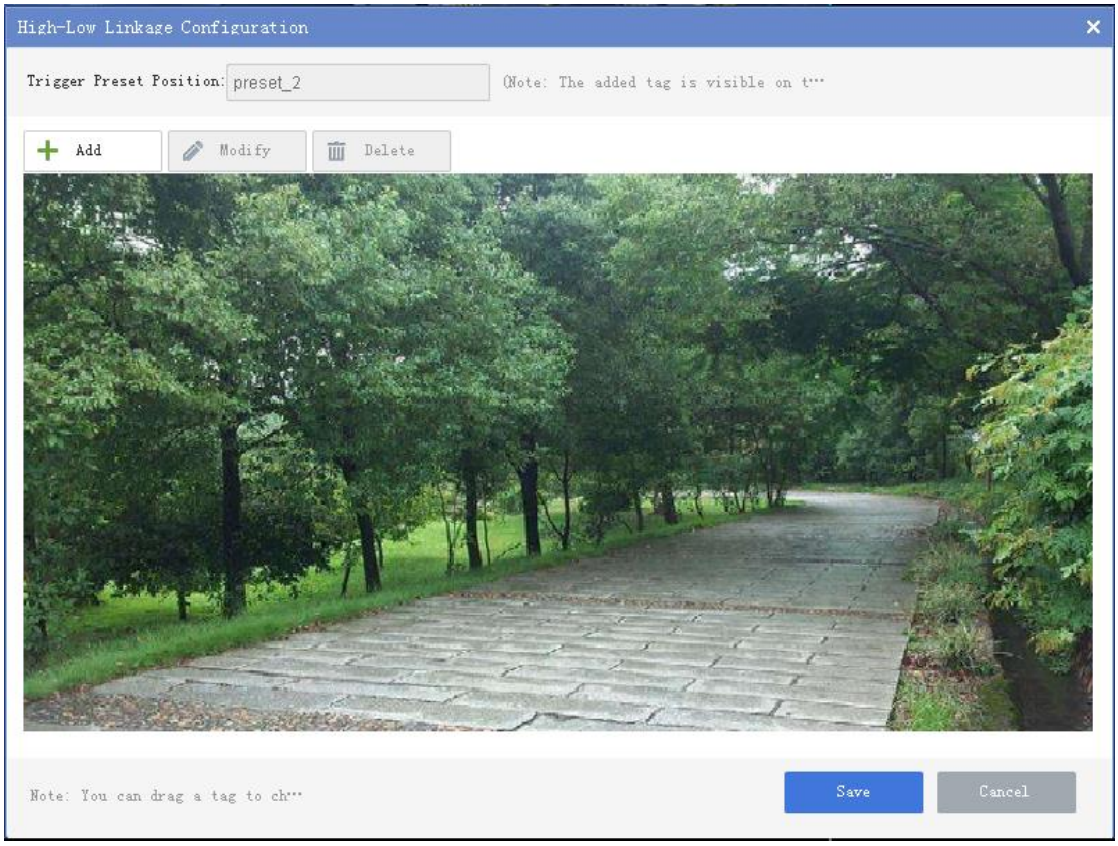
(3) Click to select a preset position.

Figure 5-7 Selecting a Preset Position



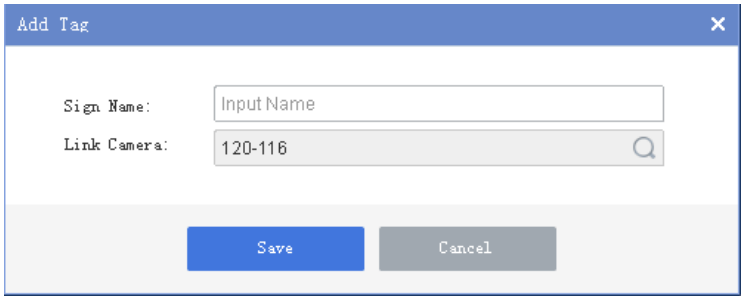

(4) Click **OK**. The **High & Low Linkage Setup** interface is displayed.

Figure 5-8 High & Low Linkage Setup




(5) Click **Add Mark**. Put the mark to the proper position on the live view screen and fill in the related information. Up to five associated cameras can be configured.

Figure 5-9 Adding a Mark




(6) After configuration, the system returns to the live view screen. Double-click the marked position to start linkage to the associated camera screen.

Figure 5-10 High & Low Linkage

## 6. Live view on wall

- Live view on DC/SDC wall

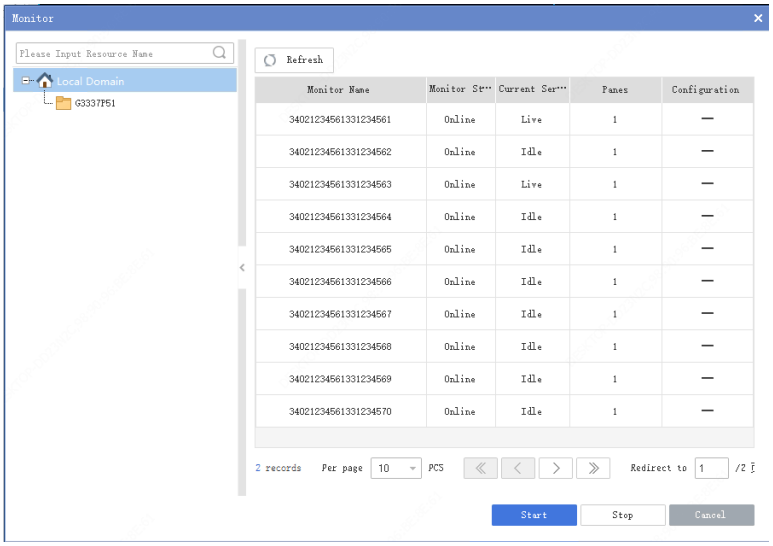
**NOTE!**
Add the DC/SDC on the B/S client, and keep the monitor online.

(1) Right-click an online camera from the resource tree, or right-click a live view pane, and select **Live view on wall** from the shortcut menu.

(2) Select a pane to display the live view on wall.

(3) Alternatively, you can select **Display More** to view all monitors and their online statuses and service states. Click to select a pane, select a monitor, and click **Start on Wall**.

Figure 5-11 Selecting a Monitor




- Live view on splicing video wall

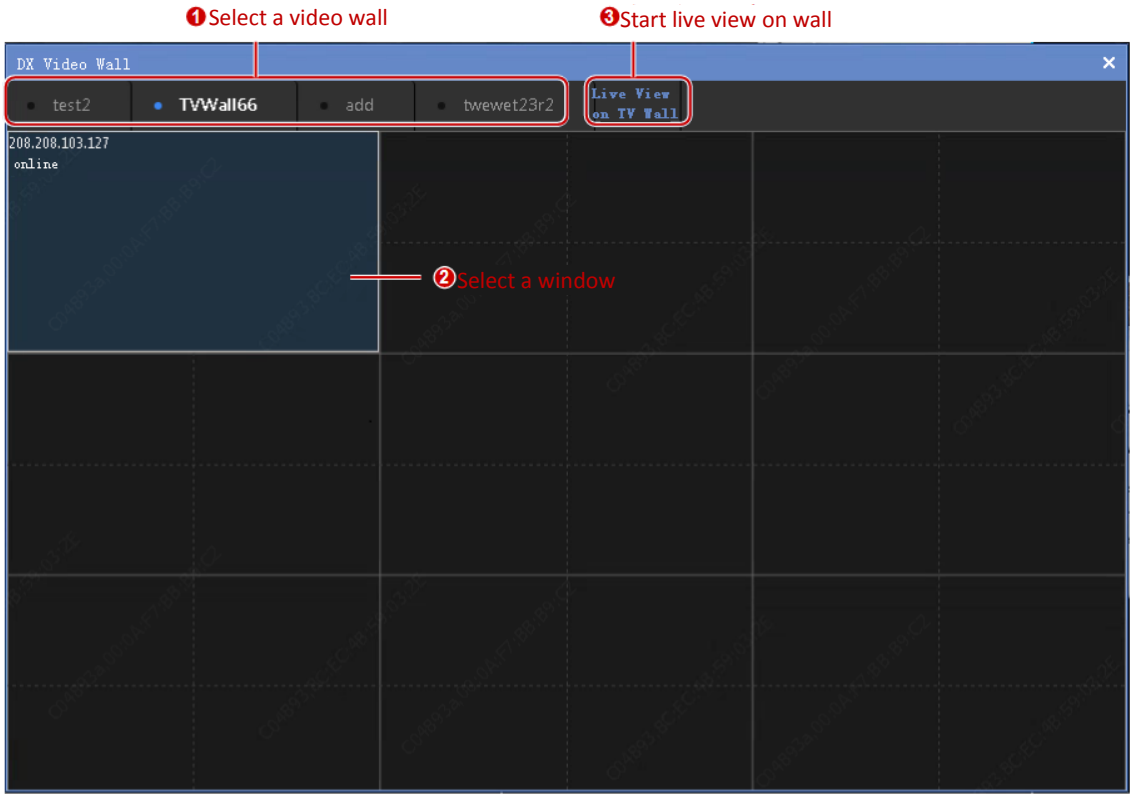
**NOTE!**

Add a splicing video wall and open a window first. For detailed operation, see Splicing Video Wall.

(1) Right-click an online camera from the resource tree, or right-click a live view pane, and select **Live view on wall** > **Splicing video wall** from the shortcut menu.

(2) Select a splicing video wall and a window, and click **Live view on wall** to play the live video in the window.

Figure 5-12 Live View on Splicing Video Wall

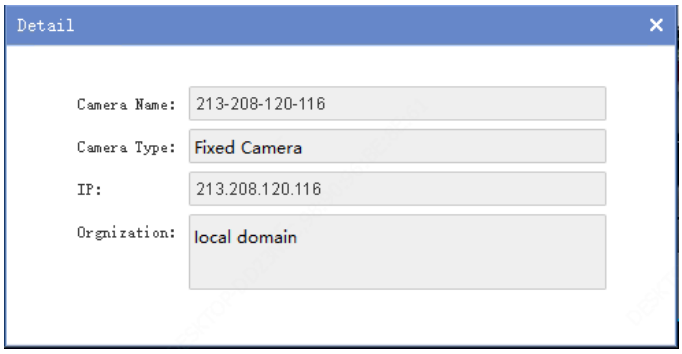



### 5.1.3 Resource Management

#### 1. Viewing camera information

Select a camera in the resource list (or select a camera point on the map), right-click it, and select **Detailed Attributes**. On the displayed **Details** page, you can check the camera name, type, device IP address, and organization.

Figure 5-13 Basic Information About a Camera




#### 2. Customizing sequence

You can determine the order of the cameras and organizations in the local domain. By default, the priority of the cameras and organizations is 100. The smaller the priority digit is, the higher the priority is. To

sequence the cameras and organizations in the local domain. The procedure is as follows:

(1) Right-click a camera to be sequenced, and then select **Configure Priority Level** from the shortcut menu.

(2) Change the priority sequence number, and then click **OK**. The camera is relocated to the new position.

Figure 5-14 Changing SN

### 3. Adding to favorites

You can add concerned cameras, switching, group display, and sequencing to the **Favorite** folder.

To add a camera to favorite, right-click the target camera, and select **Add to Favorites**.

## 5.1.4 Favorite

You can add concerned cameras, switching, group display and sequencing resources to favorite to facilitate operation. This section takes operating a camera as an example.

- Shortcut operations
  - Right-click the favorite folder title. The following shortcut menus are available: **Refresh**, **Collapse All**, **New Favorite** (up to three levels of directories are supported), **Modify Favorite Name**, **Delete Favorite**, **Video Patrol**, and **Batch Live View**.
  - Right-click a camera. The following shortcut menus are available: **Live View**, **Download Video**, **Modify Camera Name**, **Delete Camera**, and **Collapse All**.
- Icon operations

Table 5-4 Icons

| Icon | Features |
|---|---|
| | Up/Down<br>Click this icon to move the favorite folder up or down. |
| | Add a favorite folder<br>Select a favorite folder. Click this icon to create a favorite folder under the selected favorite folder.<br>**Note:**<br>The system supports up to three levels of favorite folder directories. |
| | Delete a favorite folder or camera<br>Select a favorite folder or camera. Click this icon to delete it from the list.<br>**Note:**<br>Deleting a favorites folder deletes all resources in the folder. |

| Icon | Features |
| --- | --- |
| | Start video patrol<br>Select a favorite folder. Click this icon to start video patrol. |
| | Batch live view<br>Select a favorite folder. Click this icon to start batch live view. |

## 5.2 Video Playback

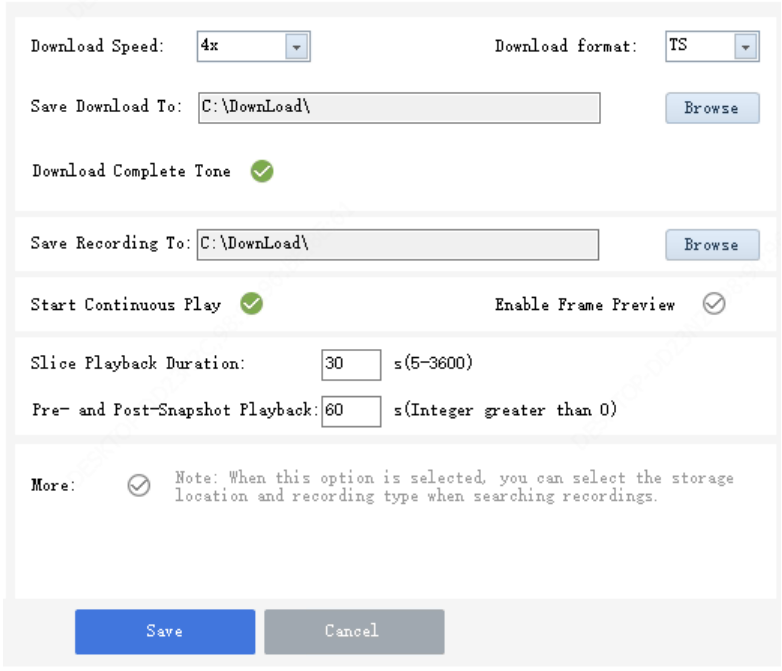
On the **Video Playback** page, you can play back a stored video, and download, capture, cut, or edit it.

### 5.2.1 Parameter Configuration

(1) Click in the upper right corner to enter the **Local Settings** page.

(2) Choose **Video Parameters** > **Recording Playback**, select **More Search Conditions** as required, and set recording download and playback parameters based on actual needs. For description of the parameters, see Configuring video parameters.

Figure 5-15 Recording Playback Parameter Configuration

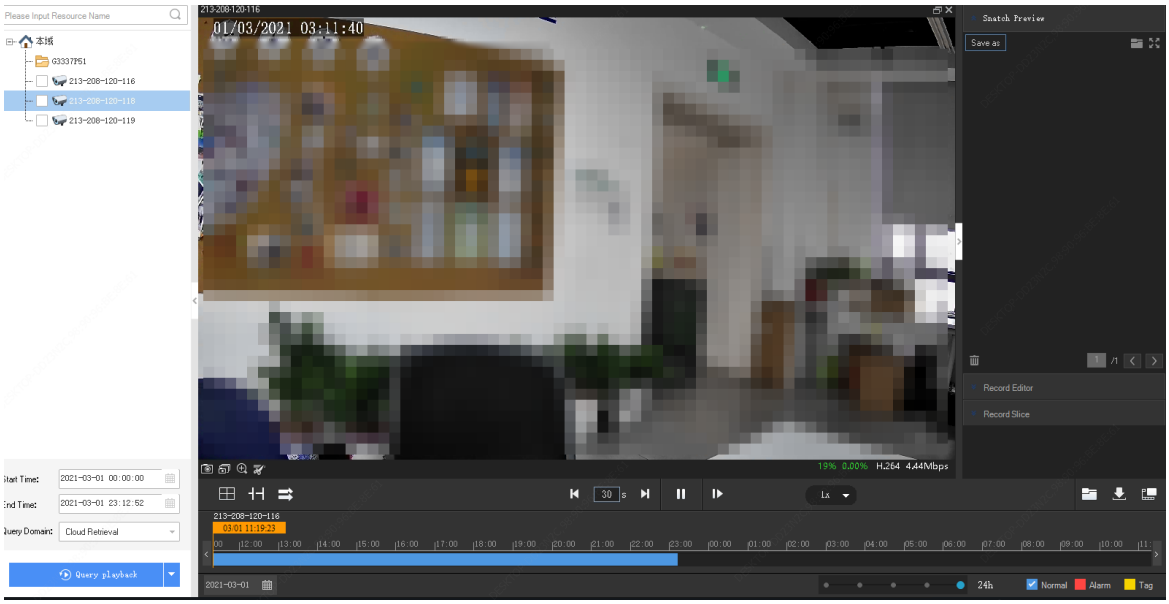



(3) After the configuration, click **Save** and log in to the client again to make the configuration effective.

### 5.2.2 Recording Playback

You can query playback, play back recordings by section, and cut recordings.

Figure 5-16 Recording Playback Interface




## 1. Playback query

(1) Select cameras in the resource tree on the left (you can simultaneously search for the recordings of up to nine cameras).

(2) Set the search start time, end time, range, and more query criteria.

**NOTE!**

The storage location and recording type can be set only when **More Search Conditions** is selected in **Local Configuration** > **Video** > **Playback**.

Table 5-5 Search Criteria Parameter Description

| Parameter | | Description |
|---|---|---|
| Query Domain | Registration Domain | Search for recordings on the storage resources of the camera registration platform. |
| | Current Domain | Search for recordings on the storage resources of the local domain. |
| Storage Location | Front-end Recording | Recording stored on the front-end device or NVR. |
| | Central Recording | Recording stored on the central storage resource (such as IPSAN) of the platform. |
| | Fuzzy Search | Regardless of whether the recording is a front-end recording or central recording. |
| Video Type | Scheduled Recording | Recording stored as planned. |
| | Alarm Recording | Alarm-triggered recording. |
| | Manual recording | Recording stored manually. |
| | All | Include scheduled recordings, alarm recordings, and manual recordings. |

(3) Click **Query Playback**.

**NOTE!**

Click on the right, and select **Query Playback** or **Query Backup File** from the drop-down list.

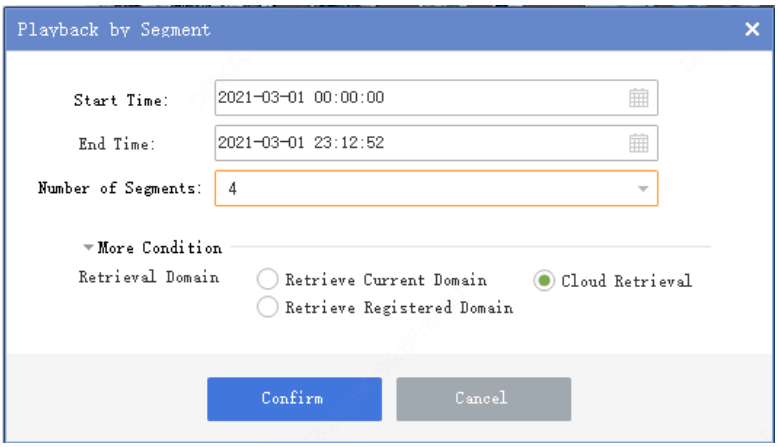
(4) The video window adjusts the number of panes based on the queried playback cameras and plays back recordings.

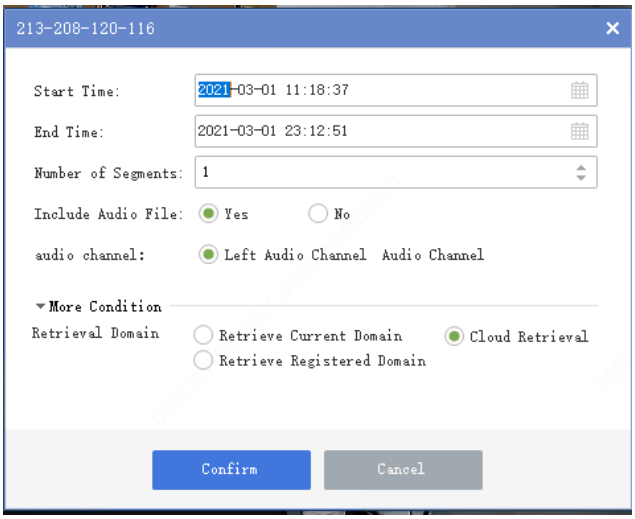
During recording playback, you can use the playback toolbar, progress bar, pane toolbar, and pane shortcut menus to operate the video.

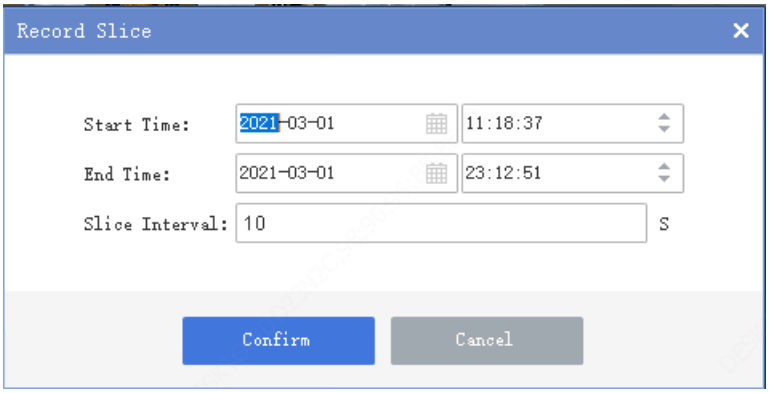
## 2. Playback toolbar

Icons on the playback screen are described in the following table:

Table 5-6 Playback Toolbar

| Icon | Function | Description |
|---|---|---|
| | Switch pane layout | Switch to the layout of 1/4/6/8/9 panes. |
| | Playback by section | Play back the recording on the selected pane by section to quickly find the target in a long video.<br>  <br>(1) In the displayed dialog box, select the time range and set the number of sections (you can divide a recording into 1/2/3/4 sections for playback).<br>(2) Click **More Conditions**, and select the storage position, search range, and recording type as required.<br>**Note:**<br>The storage location and recording type can be set only when **More Search Conditions** is selected in **Local Settings**.<br>(3) Click **OK**. The video window adjusts the number of panes based on the number of sections and plays back recordings.<br>(4) Click on the toolbar to exit playback by section. |
| | Multi-channel synchronization | Play back multiple recordings synchronously, which enables focusing on multiple cameras at the same time. |
| | Play/Pause | Play/Pause the recording on the current pane. |
| | Jump forward/ backward | Play the previous/next recording section at the preset interval (1–999s, 30s by default). |

| | | |
|---|---|---|
| | Fast forward based on a single frame | Fast forward a recording based on a single frame. |
| | Frame-by-frame playback | Play a recording by frames/s. Local recordings do not support frame-by-frame playback. |
| | Adjust speed | Adjust the recording play speed. |
| | Face retrieval | During playback, select a face by a box instantly for static comparison. |
| | Local playback | Play a local recording file on the current pane. |
| | Downloading recordings | Download recordings to the local device.<br>  <br>(1) In the displayed dialog box, set the time range of the recording to be downloaded, number of sections, whether to include the audio, and other conditions.<br>(2) Click **More Conditions**, and select the storage position, search range, and recording type as required.<br>**Note:**<br>• A user has the phantom permission can select phantom mode when downloading a key camera recording. A recording downloaded in normal mode is normal, and a recording downloaded in phantom mode is scrambled. To configure a key camera and phantom permission, see the VM help on a B/S client.<br>• The storage location and recording type can be set only when **More Search Conditions** is selected in **Local Settings**.<br>(3) Click **OK** to start downloading.<br>(4) On the **Download Task** interface, you can view the downloading progress. |

| | | |
|---|---|---|
| | Recording slicing | You can capture an image from the recording being played back at intervals. After a period of time, these snapshots are displayed in an image list. You can use the function to find key information points in a long recording.<br>Select a recording time segment and set the slicing interval. Click **OK**.<br>**Note:**<br>The recording played back locally cannot be sliced.<br>  |

Place the cursor on a pane to display the pane toolbar.

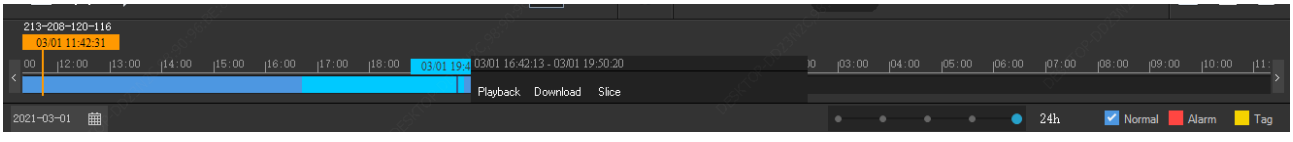
Table 5-7 Window toolbar

| Icon | Function | Description |
|---|---|---|
| | Capture | Take a snapshot of the live video being played on the current pane and save it locally. When the snapshot is previewed, **Save as**, and **Save as Clue** menus are available.<br>The interval and quantity of continuous snapshots can be set in Local Configurartion. |
| | Continuous snapshot | |
| | Digital zoom in | Amplify the partial image of the video being played on the current pane. Move the mouse wheel to zoom in/out the image. Click the icon again to stop zoom in. |
| | Recording editing | You can record multiple segments of recordings and splice them. |
| | Add label | Add a label on the current time point of the recording to facilitate quick locating in future. |
| | Fisheye correction | Click this icon to expand the control panel. You can select different correction manners according to the installation modes of the fisheye cameras.<br>**Note:**<br>This operation is valid only to fisheye cameras of the specific models. For the specific product models, contact our sellers. |

### 3. Playback progress bar

The bar shows the progress of the recording being played back on the currently selected pane.

Figure 5-17 Progress Bar




- You can drag the progress indicator on the bar to adjust the playing progress, or double-click the

desired time point to be played.

- If a recording involves several days, click

to select the date.
- Use

to adjust the time range of the progress bar.
- You can select **Tag**. Then, added labels are displayed on the progress bar in yellow. You can hover the cursor over a label to display the name and double-click a label to locate the recording.
- You can select **Alarm**. Then, occurred alarm linkages are displayed on the progress bar in red. You can double-click an alarm to locate the recording.
- Select a recording clip by pressing and holding the left mouse button. You can play it back, download it, slice it, play it back by section.

#### 4. Pane shortcut menus

Right-click a playback pane, and you can select **Close**, **Close All**, **Maximize**, **Full Screen**, **Layout Switching**, **Image Display Ratio** (see the table below), **Snapshot**, **Continuous Snapshot**, **Editing**, **Add Label**, **Digital Zoom**, **Download**, and **Slicing** (see Playback toolbar).

Table 5-8 Shortcut Menus on a Playback Pane

| Function | Description |
|---|---|
| Close | Close current playback pane. |
| Close All | Close all the playback panes. |
| Maximize/Restore | Maximize the current pane to cover all the panes.<br>To maximize/restore the current pane, you can also double-click the playback pane. |
| Layout Switching | Switch the layout to 1/4/6/8/9 panes. |
| Image Display Ratio | • **Full Pane**: The image covers the entire playing pane.<br>• **Scale**: The image is displayed in the original proportion. |

### 5.2.3 Backup Recording Query

You can query, play back, and download backup recordings.

(1) Select cameras in the resource tree on the left (you can simultaneously search for the recordings of up to nine cameras).

(2) Set the search start time, end time, range, and more query criteria.

**NOTE!**

The storage location and recording type can be set only when **More Search Conditions** is selected in **Local Configuration > Video > Playback**. For parameter description, see Playback query.

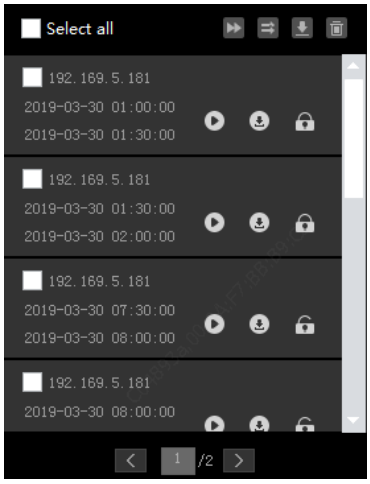
(3) Click **Query Backup File**.

**NOTE!**

Click on the right, and select **Query Playback** or **Query Backup File** from the drop-down list.

(4) The **Backup Recordings** tab on the right side of the page displays queried backup recordings.

Figure 5-18 Queried Backup Recordings




(5) You can play back, download, lock/unlock, or delete backup recordings.

Table 5-9 Backup Recording Operation Description

| Operation | Operation Description |
|---|---|
| Select a single backup recording | • Click to play back the backup recording.<br>• Click to download the backup recording.<br>• / indicate recording lock/unlock status respectively, and you can click them to unlock/lock the recording. |
| Select multiple backup recordings | • Click to continuously play the selected backup recordings.<br>• Click to synchronously play the selected backup recordings.<br>• Click to download the selected backup recordings in batches.<br>• Click to delete the selected backup recordings in batches.<br>**Note:**<br>Locked backup recordings cannot be deleted. |

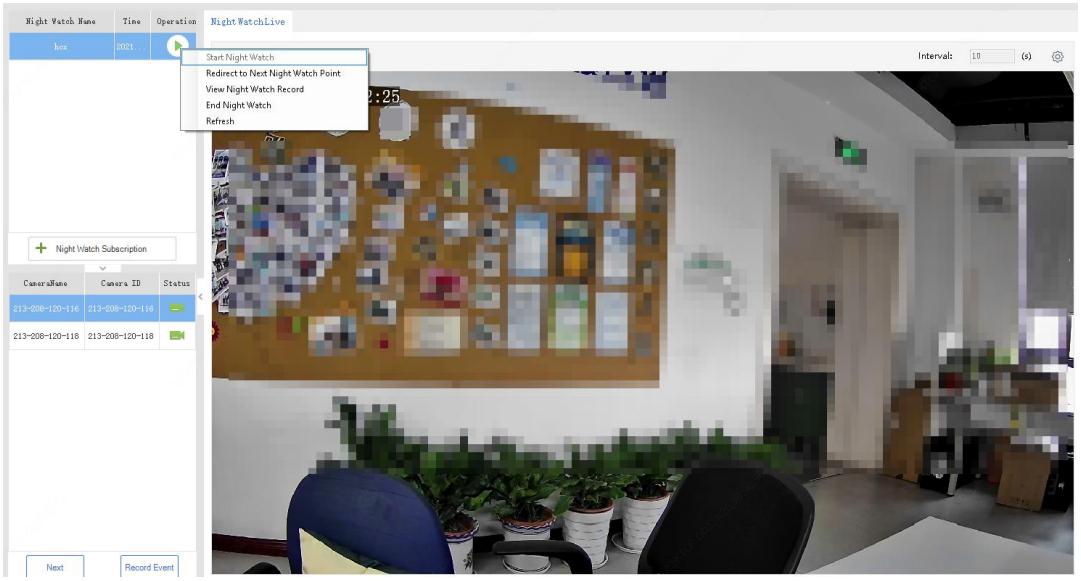
# 5.3 Video Patrol

The system supports live view patrol. You can configure and subscribe to a patrol plan, as well as query and print patrol records.

## 5.3.1 Video Patrol

You can subscribe to and manually start a patrol, perform auto patrol, and record events.

Figure 5-19 Video Patrol Interface



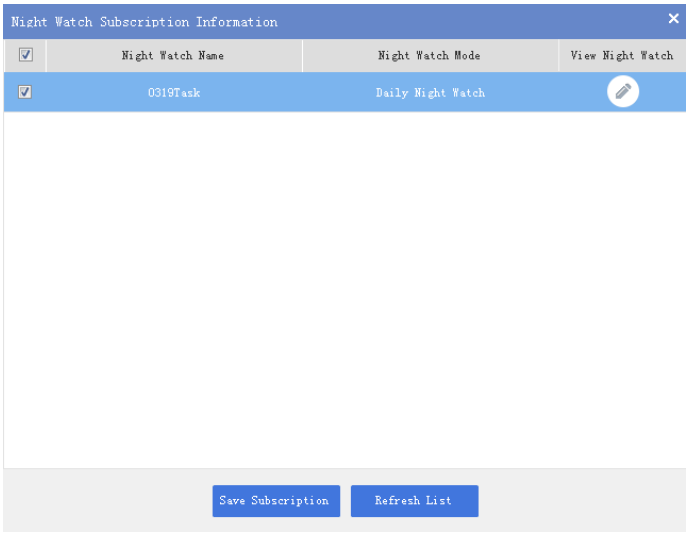

## 1. Subscribing to a patrol

Before starting a video patrol, you need to perform the following operations to subscribe to a patrol:

(1) Click **Patrol Subscription** to open the page.

(2) In the patrol list, select desired patrols and click **Save**.

Figure 5-20 Patrol Subscription




**NOTE!**

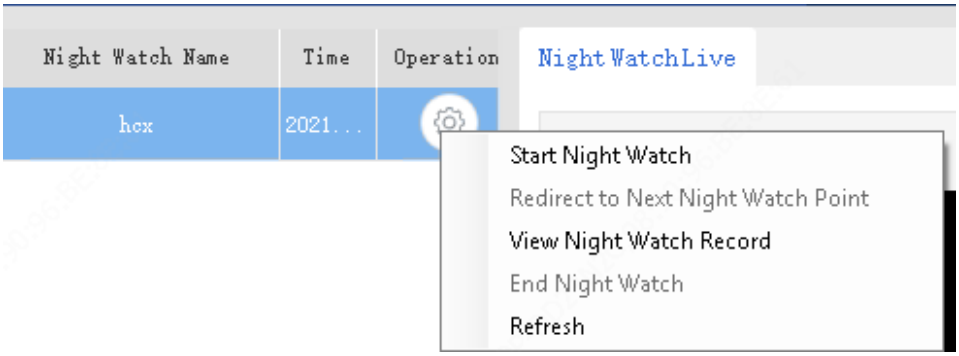
- In the patrol list, you can click to the right of the corresponding patrol to view patrol details.
- Only the admin can modify a patrol. For details, see Patrol Configuration.

## 2. Starting a patrol

After subscribing to a patrol, you can start it.

In the patrol list, click to the right of the corresponding patrol and select **Start Patrol**.

Figure 5-21 Starting a patrol




**NOTE!**

- A patrol to which the current user subscribes will trigger a prompt box at the specified time, and you can click **Go** to start the patrol. When you click **Ignore** or do not click any button within the timeout duration, the patrol will not be executed.
- If a patrol is not finished within the specified time, a patrol alarm will be generated. You can query the alarm in Alarm Records.

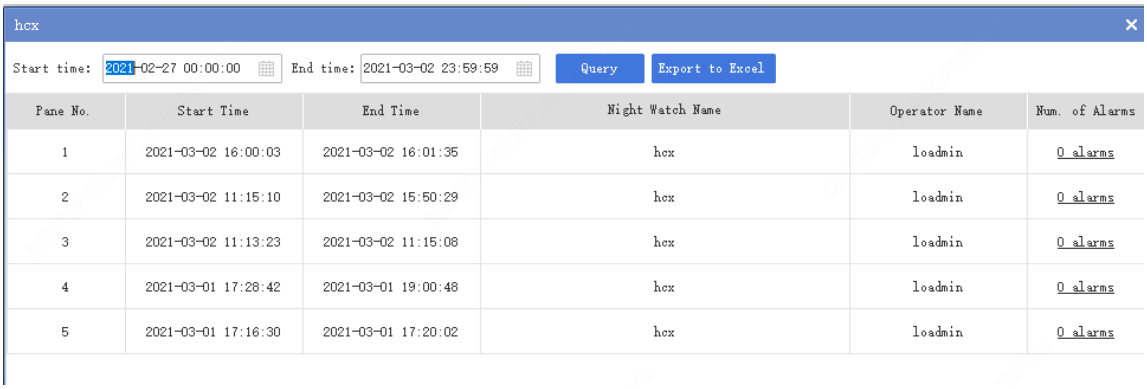
After starting a patrol, you can perform the following operations:

Table 5-10 Video Patrol Operations

| Operation | Description |
|---|---|
| Switch the patrol camera | • In the patrol list, double-click the ongoing patrol, or click , and select **Go to the next patrol point** to switch to the next camera.<br>• Click **Next** to switch to the next camera.<br>• Double-click a camera in the camera list to switch to the camera. |
| Auto patrol | Select **Start Auto Patrol** in **Patrol Live View** to perform auto patrol at the preset interval.<br>You can click on the right to change the auto patrol interval (interval for switching to the live video of the next camera), and patrol reminder delay (timeout duration after a patrol reminder dialog box is displayed). |
| Record event | In case of an exception during the patrol, you can click **Record event** to record the exception.<br>Recording an event triggers an alarm. You can check the record in Alarm Records. |
| End patrol | In the patrol list, click to the right of the ongoing patrol and select **End Patrol**. |

### 3. Checking patrol records

In the patrol list, click to the right of the corresponding patrol and select **Check Patrol Records**.




You can operate patrol records as follows:

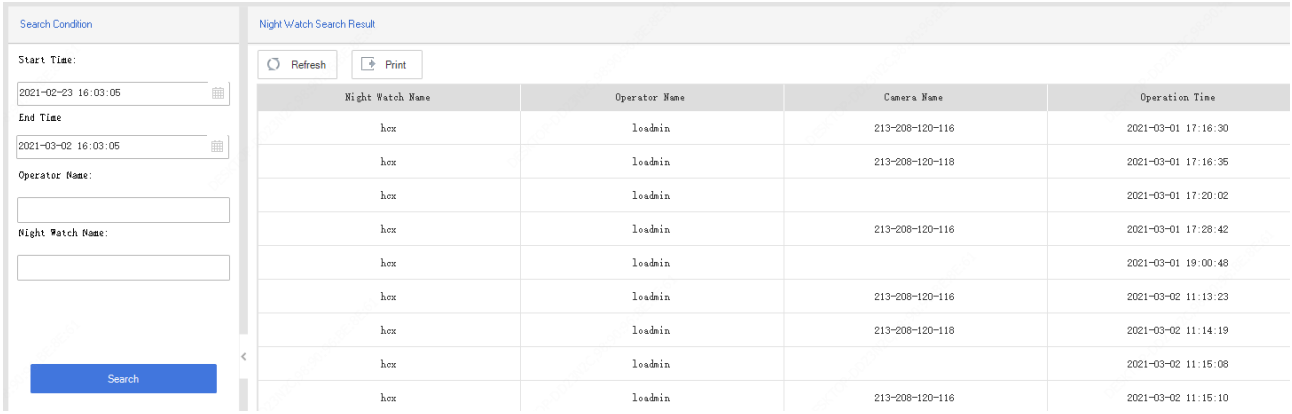
- Click **Export to Excel** to export the patrol records to an excel form.
- Double-click a patrol record to expand the detailed process.
- Click the number of alarms of a patrol record to check alarm details and play back the video.

## 5.3.2 Patrol Records

You can query and print patrol records.

- Set the time range, operator name, and patrol name to query patrol records.
- Click **Print** to print records.

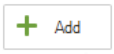
Figure 5-22 Patrol Records Interface



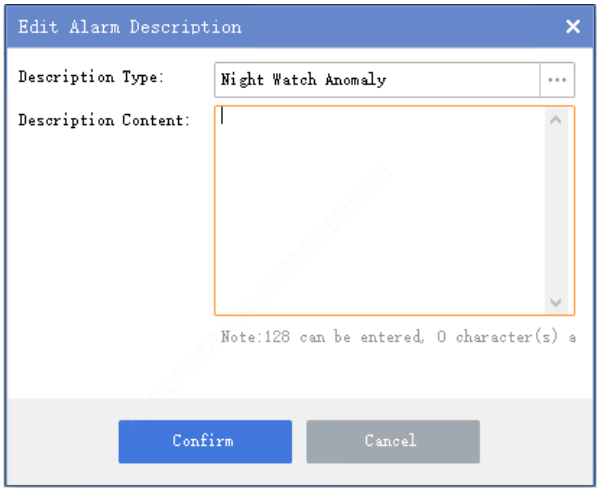

## 5.3.3 Exception Description

In case of an exception during the patrol, you can click **Record event** to record the exception. The exception description type is defined in **Exception Description**.

- Adding exception description

(1) Click 

to open the **Edit Alarm Description** dialog box.



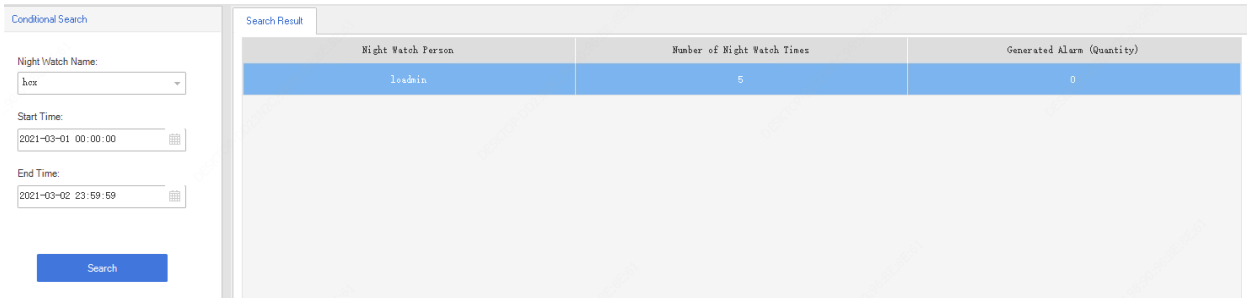

(2) Select the description type, enter the description content, and click **OK**.

- Deleting exception description
  - Click to delete a single exception record.
  - Select multiple exception records and click Delete to delete them in batch.

### 5.3.4 Patrol Alarm

You can check alarms generated during video patrol.

Figure 5-23 Patrol Alarm Interface



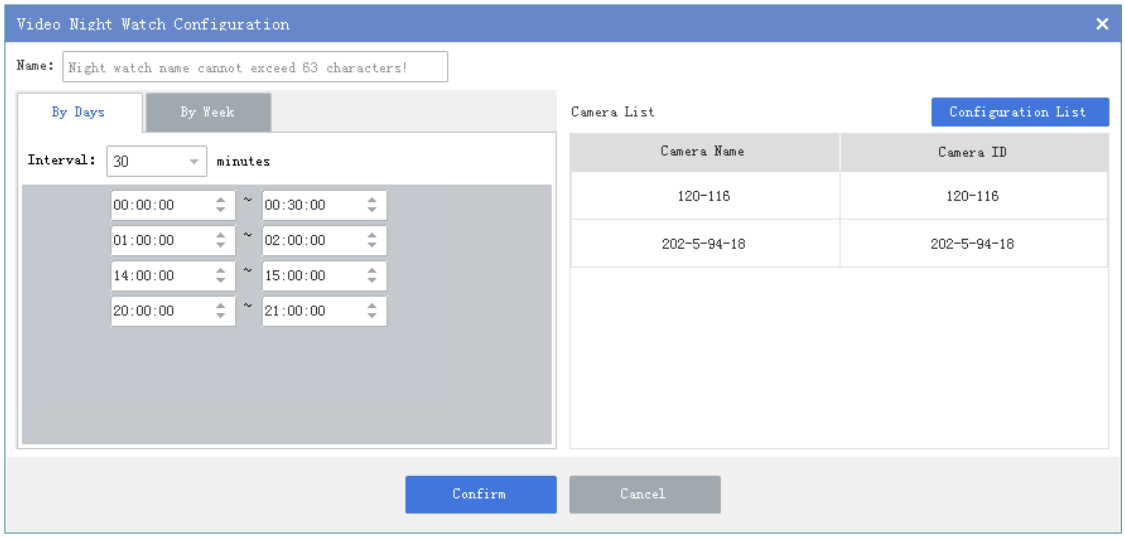

### 5.3.5 Patrol Configuration

**NOTE!**
Only the admin can configure and manage video patrols.

To add a patrol, do as follows:

(1) Click Add to open the **Video Patrol Settings** page.

Figure 5-24 Video Patrol Settings



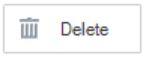

(2) Enter the video patrol name.

(3) Select the patrol cycle **By Day** or **By Week**, and set the patrol time ranges.

(4) Set the interval for patrol reminder.

(5) In the camera list, click **Set List** to select cameras of a patrol.

(6) Click **OK** to finish the setting.

- Click a patrol in the patrol list to check the cameras in the patrol camera list on the right.
- Click to modify a patrol plan.
- Click  to delete the selected patrol setting.



# 5.4 Video Wall

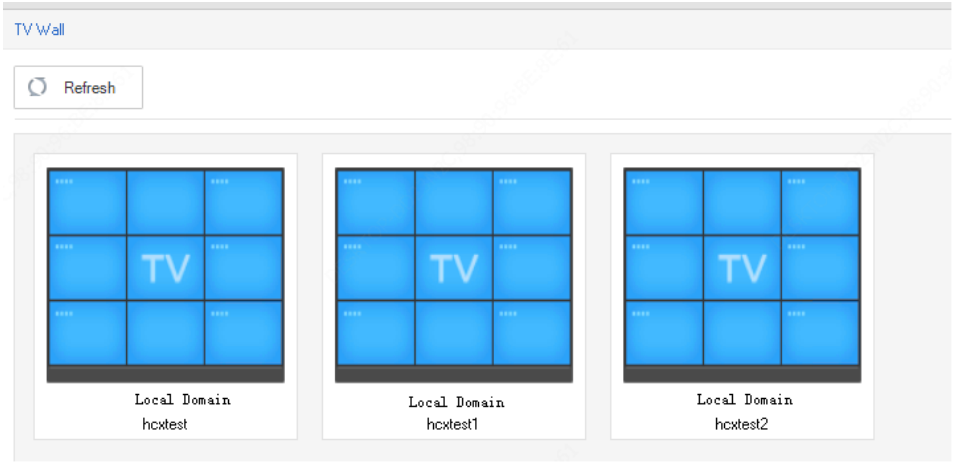
**NOTE!**

Video wall services are available after the corresponding video wall device is added on the B/S client. Switching, group display, sequencing, and scene functions can be used only when the related services are configured on the B/S client. For the operations, see the VM Help.

## 5.4.1 Video Wall

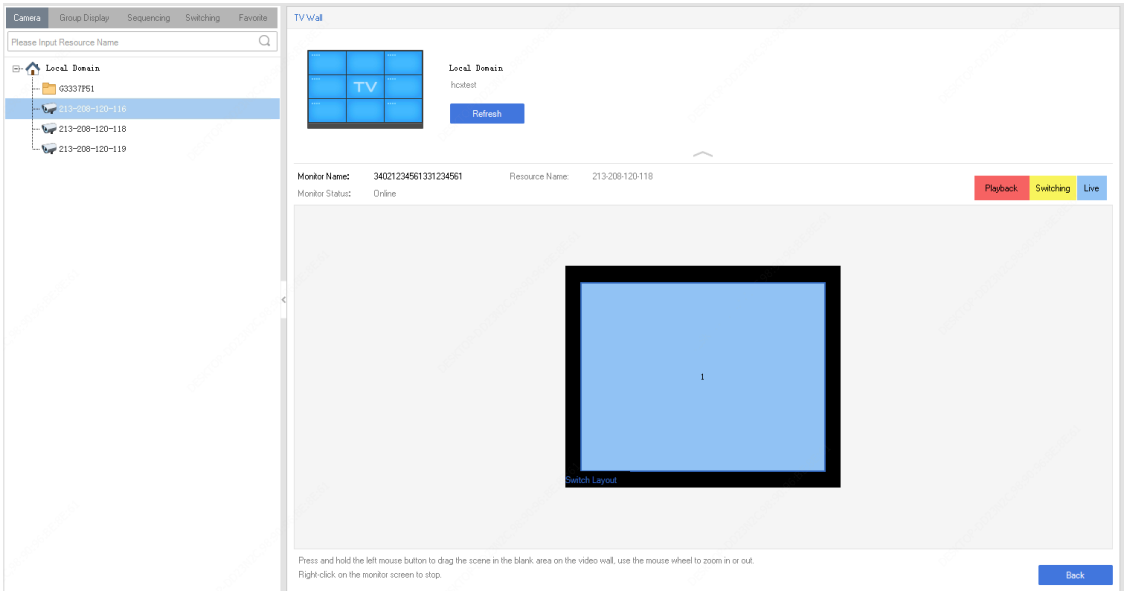
The **Video Wall** page displays video wall devices configured on the platform (excluding video wall devices corresponding to the integrated video platform, ADU, and the SDC platform).

Figure 5-25 Video Wall




Double-click a video wall. The corresponding video wall interface is displayed.

Figure 5-26 Video Wall Pane




The following operations are supported:

- Resource playing: Drag an online camera/switching from the resource tree on the left to a video wall pane. Alternatively, right-click a group display/sequencing and select **Start**. The pane displays the mark color of the corresponding service. Right-click the pane and select **Preview** from the shortcut menu to check the live video.
- Video wall playback: Select a pane, right-click a camera from the resource tree on the left, and select **Video Wall Playback**. Configure the playback time and other conditions. After confirming configuration, the pane displays the playback mark color, and the video is played back on the video wall.
- Closing video wall pane: Right-click a playing pane, and then select **Close** from the shortcut menu to close the currently played task.
- Layout switching: Click **Layout Switching** in the lower left corner of the video wall. Layout can be

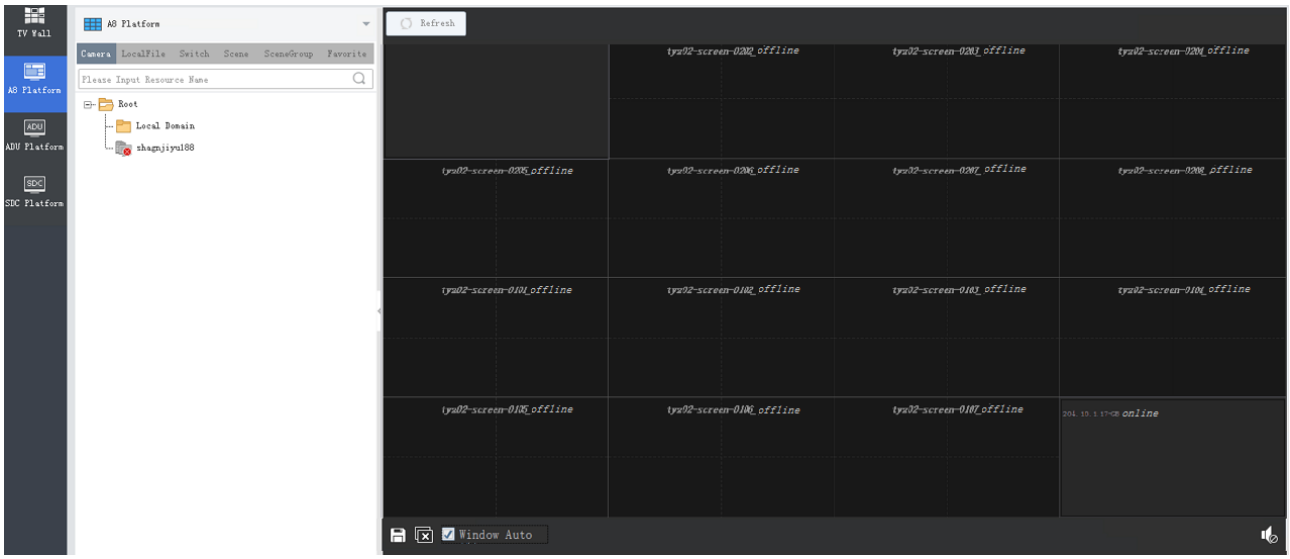
switched among 1 pane, 3 panes, 4 panes, 6 panes, and 7 panes.

- Favorite: You can add concerned cameras and switching to the **Favorite** folder.

### 5.4.2 A8 Platform

An integrated video platform supports the matrix switching of analog and digital videos, audio/video encoding/decoding, screen splicing and live view functions, and integrates image processing, network functions, log management, device maintenance, and system management.

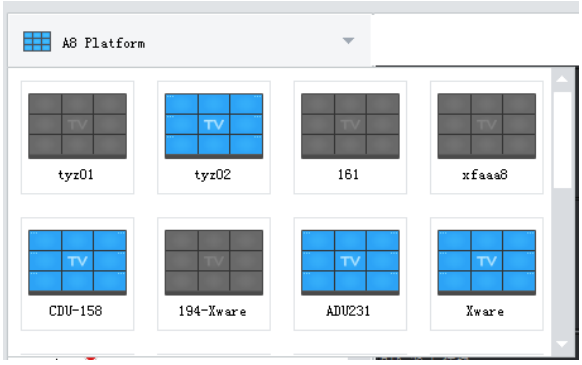
Figure 5-27 Integrated Video Platform




Do as follows:

- Switching video wall: Click the video wall drop-down list box on the left and double-click a blue device icon to switch the video wall.

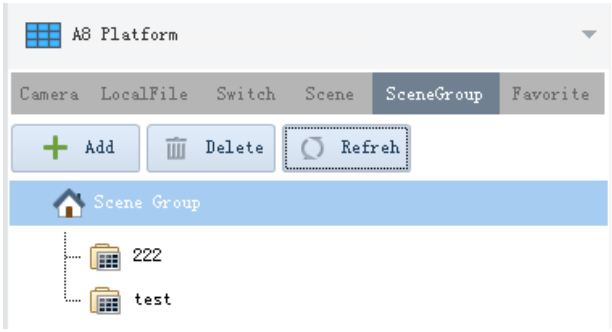
Figure 5-28 Video Wall Switching




- Local input: Select a piece of data in the left list, right-click it, and select **Start** to display it on the video wall.
- Playing a resource: Drag the desired resource from the resource tree on the left to a play pane on the right.

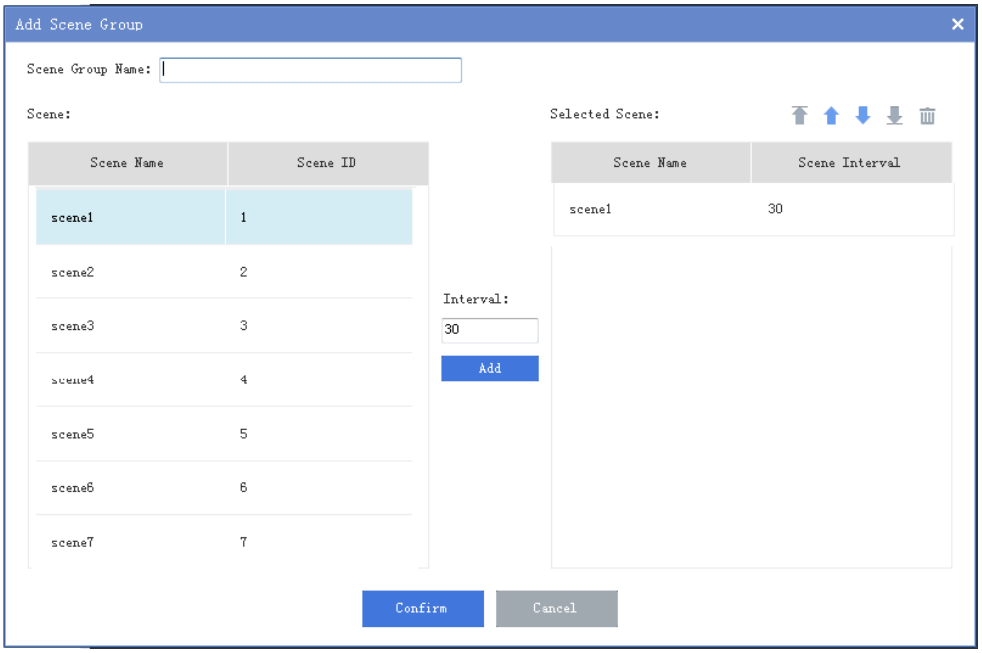
- Video wall playback: Select a pane, right-click a camera from the resource tree on the left, and select **Video Wall Playback**. Configure the playback time. After confirming configuration, start playback and the video is played back on the video wall.
- Scene group: You can sort multiple scenes in a specific sequence as a scene group, and set the interval to switch between the scenes.

Figure 5-29 Scene Group



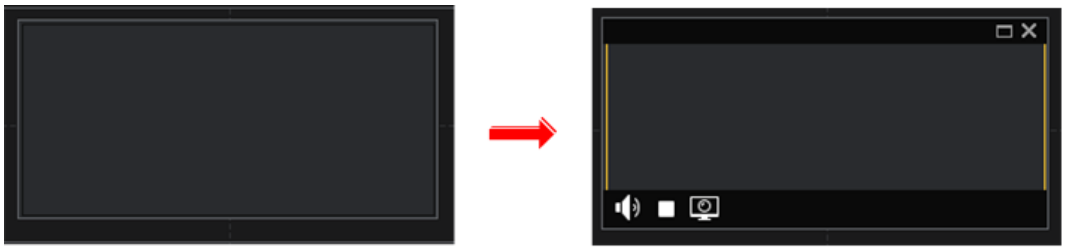

Click **New** to open the **Add Scene Group** interface. Enter the scene group name, select scenes, set the scene switching interval, and click **OK**.

Figure 5-30 Add Scene Group




- Favorite: You can add concerned cameras and switching to the **Favorite** folder.
- Opening a window: In the channel interface on the right, press and hold the right mouse button and pull a box from the upper left corner to the lower right corner.

Figure 5-31 Opening a Window



You can open a window across channels. The number of panes to be opened needs to be a multiple of the number of monitors.

Figure 5-32 Opening a Window Across Channels

Other operations are described as follows:

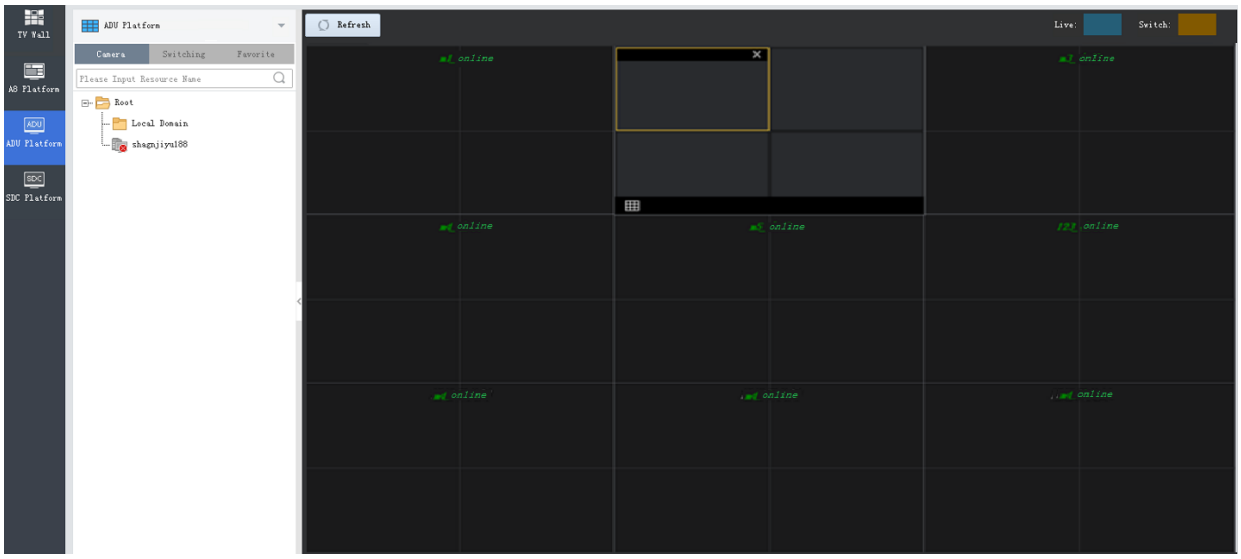
Table 5-11 Description of Other Operations

| Icon | Function | Description |
|---|---|---|
| | Preview | Preview the play task on the current pane. |
| | Stop live view | Stop playing the live video on the current pane. |
| | Enable sound | Play the sound on the current pane. |
| | Maximize | Maximize the current pane to cover all channels. |
| | Close | Close the current pane. |
| | Save | Select a scene name and click **OK** to save it. |
| | Close All | Close all panes. |
| Window Auto | | Select it to enable the automatic matching and alignment of panes and channels. |

### 5.4.3 ADU Platform

An integrated display control unit (ADU) is a universal decoding server developed to meet the needs of multi-functional decoding on the wall. It can provide customers with high-performance, high-quality third-party stream decoding on the wall.

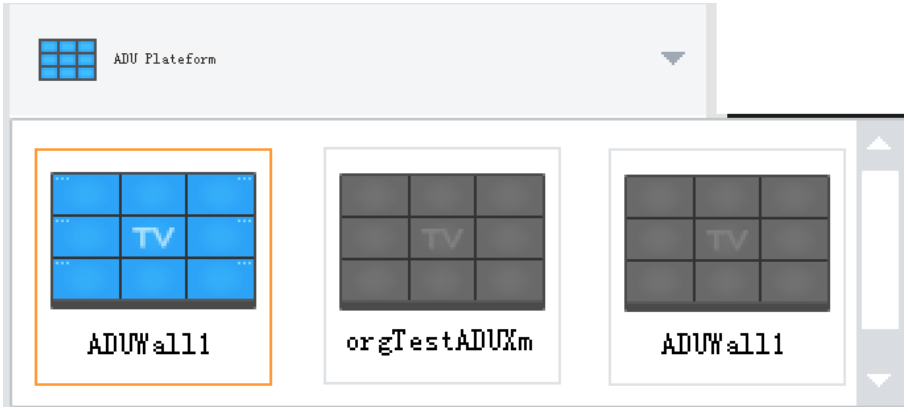
Figure 5-33 ADU Platform




Do as follows:

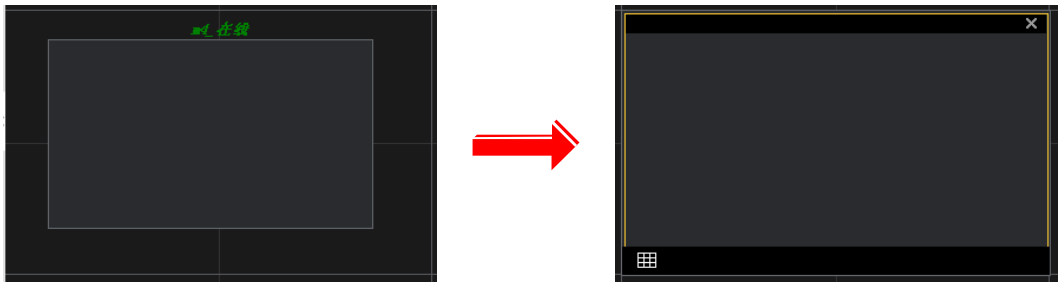
- Switching video wall: Click the video wall drop-down list box on the left to check the video wall of the ADU device, and double-click a blue device icon to switch the video wall.

Figure 5-34 Video Wall Switching




- Playing a resource: Drag the desired resource from the resource tree on the left to a play pane on the right.
- Video wall playback: Select a pane, right-click a camera from the resource tree on the left, and select **Video Wall Playback**. Configure the playback time. After confirming configuration, start playback and the video is played back on the video wall.
- Favorite: You can add concerned cameras and switching to the **Favorite** folder.
- Opening a window: In the channel interface on the right, press and hold the right mouse button and pull a box from the upper left corner to the lower right corner.

Figure 5-35 Opening a Window

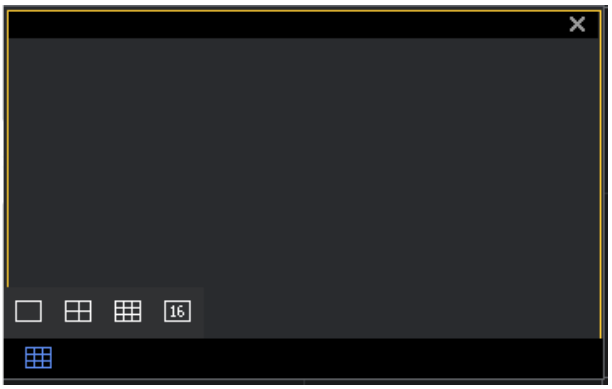


You can open a window across channels. The number of panes to be opened needs to be a multiple of the number of monitors.

Figure 5-36 Opening a Window Across Channels

- Switching pane layout: Click in the lower left corner to switch the layout to 1/4/9/16 panes. Only one screen is supported across channels, and the window cannot be dragged.

Figure 5-37 Switching Pane Layout

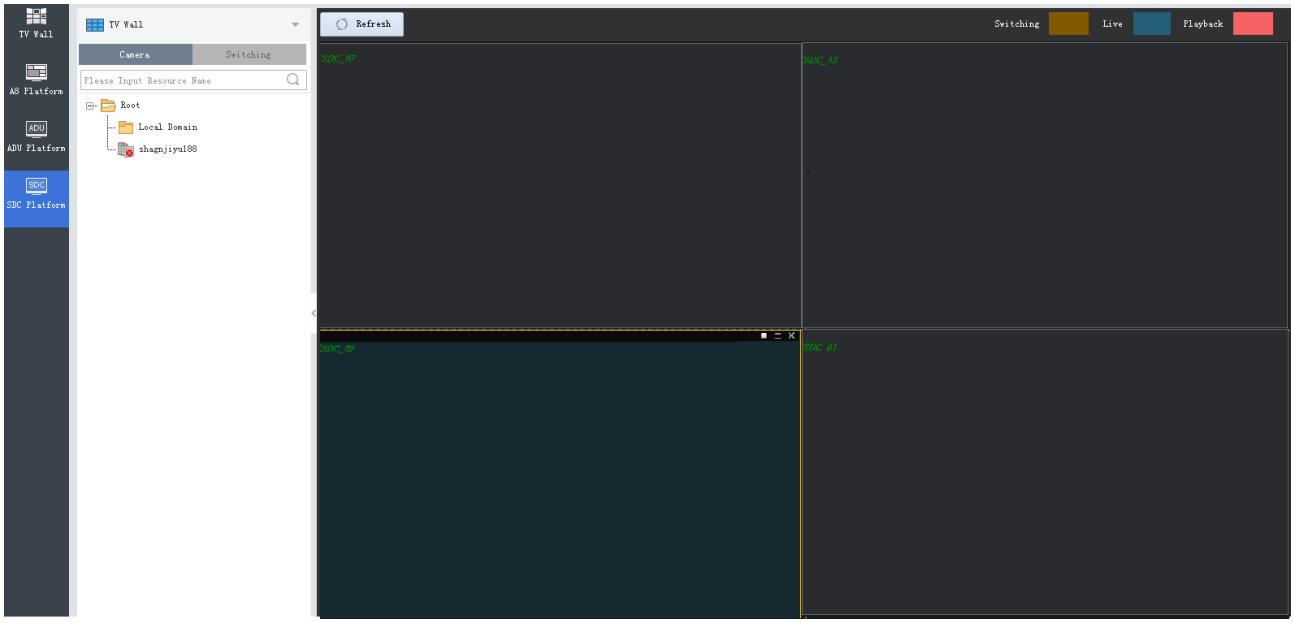


- Closing a pane: Click in the upper right corner. If a multi-pane layout is selected, switch to one-pane layout before closing it.

### 5.4.4 SDC Platform

The universal decoding software (SDC) provides high-performance third-party stream decoding on the wall.

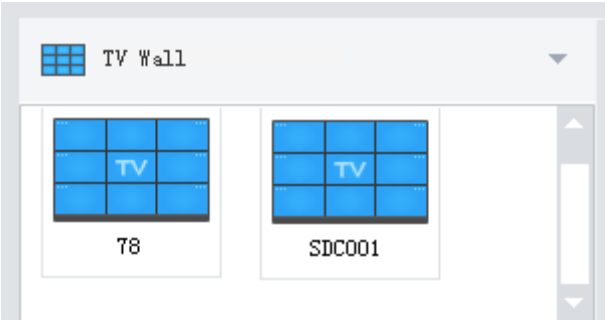
Figure 5-38 SDC Platform




Do as follows:

- Switching video wall: Click the video wall drop-down list box on the left to check the SDC video wall, and double-click a blue device icon to switch the video wall.

Figure 5-39 Video Wall Switching




- Resource playing: Drag an online camera/switching to any pane. The pane displays the mark color of the live view/switching. You can check the live video on the SDC.
- Video wall playback: Select a pane, right-click a camera in the resource tree, and select **Video Wall Playback**. Select a time range when a recording is available, and start playback. The pane displays the playback mark color, and you can check the playback on the SDC.
- You can zoom in/out the pane and drag it to adjust the position.
- You can right-click a playing pane, and then stop the service or view the monitoring relation.

## 5.5 DX Video Wall

You can add a splicing video wall, and configure and manage services on the wall.

**NOTE!**

- You need to first add a decoding splicing control device, and set the switching, splicing sequencing, and splicing sequencing plan on the B/S client.
- You can add a video wall with one or more decoding splicing control devices. A video wall with a single decoding splicing control device can be configured on the B/S or C/S client, while a video wall with multiple decoding splicing control devices can be configured only on the C/S client.
- The number of splicing video walls that can be added to the system depends on the capability of the decoding splicing control device.

### 1. Adding a video wall

(1) If no video wall has been added, click

in the center of the page. If a video wall has been added, click in the upper right corner.

(2) Select **Add decoding splicing video wall** or **Add decoding video wall** to open the **New Video Wall** page.

**NOTE!**

- **Add decoding splicing video wall** is to add a video wall with a single decoding splicing control device, that is, the video wall can be bound to output channels of only one decoding splicing control device.
- **Add decoding video wall** is to add a video wall with multiple decoding splicing control devices, that is, the video wall can be bound to output channels of multiple (up to 20) decoding splicing control devices.

(3) Set the video wall name, specification, organization, output mode, and grid density.

- For the small-spacing LED of a decoding splicing video wall, click **Small-spacing LED** to set the parameters.

  After you set the video wall specification, the pane panel in the lower part displays the effect.

(4) Drag an unbound channel from the output channel list to a pane.

- A decoding splicing video wall can be bound only to the channel of one decoding splicing control device.
- A decoding video wall can be bound to the channels of different decoding splicing control devices.
- One-click channel binding/unbinding: Select a decoding splicing control device from the output channel list, and click in the lower left corner of the pane to bind unbound channels of the device to panes, and click to unbind them.

**NOTE!**

If a pane has bound to a channel, one-click binding will clear the current binding relation and bind.

(5) Click **OK** to add the video wall. You can check the added video wall in the upper part of the panel.

**NOTE!**

You can click the drop-down arrow to the right of the video wall name and select **Modify Video Wall** or **Delete Video Wall** from the drop-down menu.

- When a window exists in the current scene, the video wall cannot be modified or deleted.
- When a video wall is modified, the binding relation between the video wall and decoding splicing control devices cannot be modified.

### 2. Operating windows

- Open window: Drag a camera or switching resource from the resource tree on the left to a video wall pane to open a window and start the service. Alternatively, press and hold the right mouse button to pull a box on the video wall panel to open a window. You can also click on the toolbar and set the number of windows to open windows.
- Close window: Click in the upper right corner of a window or click **Close Window** on the toolbar to close the window. Alternatively, click on the toolbar to close all windows.
- You can use the mouse to drag a window to move it or drag the frame to zoom in/out.

Table 5-12 Other Toolbar Icon Operations

| Icon | Function |
|---|---|
| | Select it so that an opened window automatically aligns with the grid lines. |
| | Select the number of panes of the window. |
| | Stop decoding and playing the current window on the wall. |
| | Bring the current window to the bottom layer. |
| | Amplify the one-pane window to the entire video wall.<br>Amplify the multi-pane window to the entire window. |
| | Enable/Disable alarm triggering of the window.<br>Select a window and click this icon to enable alarm triggering. Then, appears in the lower right corner of the window, and when an alarm is reported, the window plays the camera live video. Click this icon again to disable alarm triggering.<br>**Note:** Configure alarm triggering camera live view to the splicing video wall on the B/S client first. |

**NOTE!**

A decoding video wall does not support one-click window opening/closing, window moving/zooming, window opening by covering an existing window, auto window alignment and and operations.

### 3. Playing resource on wall

On a splicing video wall, you can play a camera, local input, switching, scene, sequencing between scenes, splicing control sequencing, or splicing control sequencing plan.

**NOTE!**

A decoding video wall does not support splicing control sequencing, or splicing control sequencing plan on wall.

Table 5-13 Operations of Resources on wall

| Resource | Operation |
|---|---|
| Camera | • Live view on wall: Drag a camera to a video wall window. Alternatively, select a video wall window, right-click a camera, and select **Live View on Wall** > **Main Stream on Wall/Sub Stream on Wall/Self-adaptive**.<br>• Playback on wall: Select a video wall window, right-click a camera, and select **Video Wall Playback**. On the displayed page, set the playback time, search range, and other parameters. Then, click **OK** to check the playback on wall.<br>• Live view: Right-click a camera and select **Live View** to play the camera live video. |
| Local input | Select a video wall window, right-click a local input channel, and select **Start** to play the local input on wall. |
| Polling switching | Drag a switching resource to a video wall window to play the switching in the window. |
| Scene | • Save scene: Right-click a scene, and select **Save Scene** from the shortcut menu to save the current video wall service as a scene.<br>• Start scene: Right-click a scene, and select **Start Scene** from the shortcut menu to play the scene on the current video wall. |
| Sequencing between scenes | • Add a scene group: On the **Sequencing between scenes** tab, click  to open the **Add Scene Group** window. Select a scene from the left scene list, configure the interval, and click to add it to the scene group. Click **OK** to save and display the scene group in the resource list for sequencing between scenes.<br>**Note:** You can modify or delete a scene group from the shortcut menu.<br>• Start sequencing between scenes: Right-click a scene group, and select **Start** from the shortcut menu to play the sequencing between scenes on the wall. The system displays the current sequencing scene.<br>• Stop sequencing between scenes: Click **Stop**. |
| Splicing control sequencing | Right-click a splicing control sequencing resource, and select **Start** from the shortcut menu to play it on wall.<br>After playing a splicing control sequencing resource on wall, you can select previous image, next image, stop, and pause from the shortcut menu. |

| | |
|---|---|
| Splicing control sequencing plan | Right-click a splicing control sequencing plan, and select **Start** from the shortcut menu to play it on wall.<br>After playing a splicing control sequencing plan on wall, you can stop it from the shortcut menu. |

### 4. Configuring a virtual LED

You can configure a virtual LED on a decoding splicing video wall to display customized text and other information.

**NOTE!**

A decoding video wall does not support virtual LED.

(1) Switch to the **Virtual LED** interface at the bottom of the page.

(2) On the video wall pane, press and hold the right mouse button to pull a box and draw a virtual LED.

Alternatively, click to the right of **Virtual LED** on the toolbar.

(3) On the displayed **Virtual LED** interface, set the position and size of the virtual LED, display content and style, and scrolling mode parameter, and then click **OK** to save the settings.

**NOTE!**

- A video wall supports up to one scrolling virtual LED and a maximum of 16 static virtual LEDs.
- Virtual LEDs cannot overlap.

(4) You can view successfully added virtual LEDs on the video wall.

Figure 5-40 Virtual LED Added Successfully

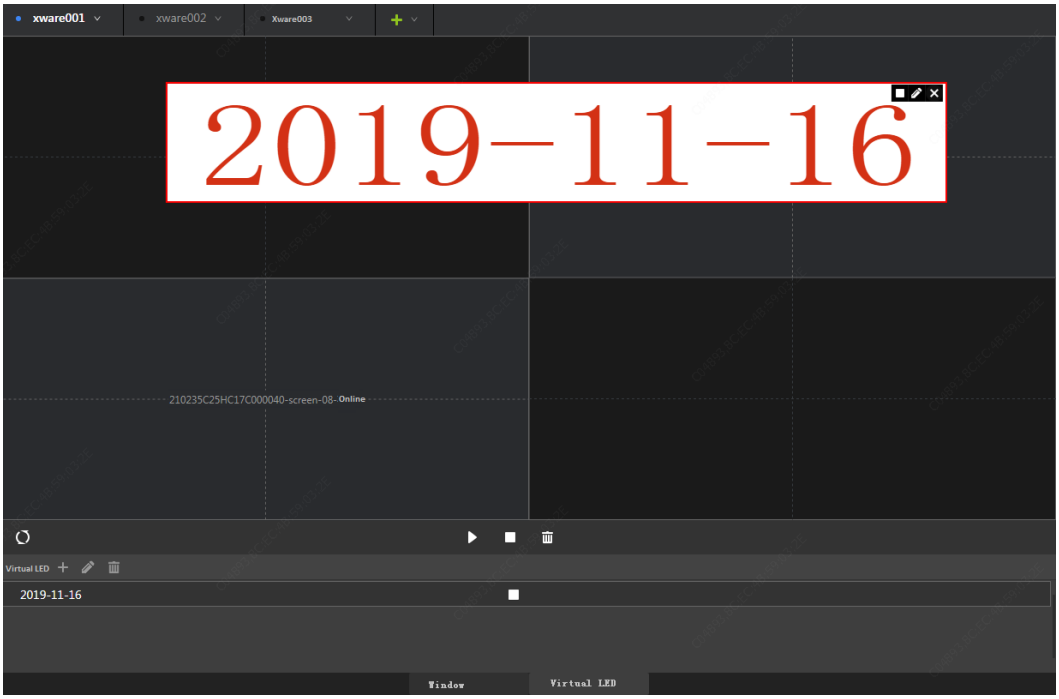



Table 5-14 Virtual LED Operation Description

| Function | Operation Description |
|---|---|

| | |
|---|---|
| Adjust the position/size of a virtual LED | You can use the mouse to drag a virtual LED to move it or drag the frame to zoom in/out the virtual LED. |
| Enable/Disable a virtual LED | • Click ▶/■ in the upper right corner of a virtual LED to enable/disable the virtual LED.<br>• Place the cursor on the text under **Virtual LED** on the toolbar to display ▶/■. You can click the buttons to enable/disable the virtual LED respectively.<br>• Click ▶/■ on the toolbar to enable/disable all virtual LEDs. |
| Modify a virtual LED | To change the parameters of a virtual LED, click ✎ in the upper right corner of the virtual LED, or select the virtual LED and click ✎ to the right of **Virtual LED** on the toolbar. |
| Delete a virtual LED | • To delete a virtual LED, click ✕ in the upper right corner of the virtual LED, or select the virtual LED and click 🗑 to the right of **Virtual LED** on the toolbar.<br>• Click 🗑 on the toolbar to delete all virtual LEDs. |

# 6 Service Configuration

## 6.1 Device Management

### 6.1.1 Map Setting

Select **Device Management** > **Map Setting**, and you can switch the defense zone, bind the map, and mark positions on the page.

Figure 6-1 Map Mark Interface

1. Managing defense zones

Click to open the **Zone Tree** page, where you can add, modify, and delete a defense zone.

Table 6-1 Zone Tree Operations

| Operation | Description |
|---|---|
| Search for a defense zone | Enter a defense zone name in the zone resource search box, and click to search for the zone. |
| Switch between defense zones | Select a defense zone and click **OK** to switch to the map of the zone. |
| Add a defense zone | Right-click a defense zone, and select **Add Zone**. Enter the defense zone name, code, and description, and click **OK** to add a sub zone under the defense zone. |
| Modify a defense zone | Right-click a defense zone, and select **Modify Zone**. Modify the defense zone name or description, and click **OK**. |
| Delete a defense zone | Right-click a defense zone, select **Delete Zone**, and confirm the operation to delete the zone.<br>**Note:**<br>A defense zone allocated with devices cannot be deleted. You need to delete the devices before you can delete the zone. |

2. Configuring maps

- Upload a map

Click in any defense zone map to open the **Bind Map** page.

  - Click the **JPG Map** tab, click **Upload**, and upload a local image according to requirements on the page.
  - Click the **Online Map** tab, click of the corresponding map, and set the latitude and longitude of the center point, and the map zoom level (province, city, county/region, street, or others).

**NOTE!**

For the online map service, the MAP server needs to provide the online map resource. For the configuration, see the VM help.

- Bind a map

(1) Click to open the **Zone Tree** page, and select the desired defense zone.

(2) Right-click a defense zone and select **Bind Map**. Alternatively, click **OK** and click in the defense zone map to open the **Bind Map** page.

(3) On the **Bind Map** page, switch the tab and select the desired map.

(4) Click **OK** to complete binding.

**NOTE!**

A JPG map can be bound with only one defense zone, and an online map can be bound with multiple defense zones.

- Unbind a map

(1) Click to open the **Zone Tree** page, and select the desired defense zone.

(2) Right-click a defense zone and select **Bind Map**. Alternatively, click **OK** and click in the defense zone map to open the **Bind Map** page.

(3) On the **Bind Map** page, switch the tab and deselect a bound map.

(4) Click **OK** to clear binding.

- Modify a map

Perform the operations to Bind a map, reselect the desired map, and click **OK** to complete modification.

- Delete a map

Click in any defense zone map to open the **Bind Map** page. Click the **JPG Map** tab, click of the corresponding map, and confirm the operation to delete the map.

**NOTE!**

- A map bound to a defense zone cannot be deleted. You need to unbind the map before you can delete it.
- An online map is provided by the MAP server, and cannot be deleted on the C/S client.

### 3. Marking positions

You can intuitively mark defense zone devices, third-party access devices, and other devices (such as a temperature, humidity, or PM2.5 device) on a map.

Click and select the desired defense zone. The page displays the defense zone map and device list.

- Search for a device

You can use the device type or name keyword to search for a defense zone device or third-party access device.

- Mark a device on a map
  - On the **Zone Devices** tab, expand the **Unmarked to Map** list, and drag the desired device to the map.
  - On the **Third-party Access** tab, drag an unallocated third-party access device to the map.
  - On the **Others** tab, drag a temperature device, humidity device, or PM2.5 device icon to the map, enter the device code (corresponding camera code) and device name on the displayed page, and click **Save**.

**NOTE!**

- Some sensors (temperature, humidity, or PM2.5 device) can be automatically obtained on the **Zone Devices** tab through an accessed sensing camera. If not obtained, temperature, humidity, and PM2.5 devices can be manually added on the **Others** tab.
- For environment devices dragged to the map and marked on the **Zone Devices** tab, you can change their names.

- Move a device on a map

Right-click a device marked on the map, select **Move Device**, and move the device to the correct position.

- Remove a device on a map

Right-click a device marked on the map, and select **Remove from Map**. Alternatively, select the device on the map, and click . You can check devices removed from the map in the **Unmarked to Map** list.

- Delete device

On the **Zone Devices** tab, right-click the desired device, and select **Delete Device**.

  - Cameras, DAEs, and monitors do not support this function, and need to be deleted on the B/S client. For details, see the VM help.
  - When a locator is deleted, it will be deleted completely.
  - When a third-party device (such as an access control, intercom, or environment monitoring device) is deleted, it is just deleted from the defense zone. To completely delete such a device, delete it on the **Third-party Devices** tab. For details, see Delete device.

### 4. Setting hot zones

- Set hot zones

Two hot zone modes are available:

(1) Frame hot zone: The **Map App** page supports jump to a linked defense zone.

Click on the defense zone map. On the displayed **Hot Zone Setting** page, enter the hot zone name and linked defense zone, click **Start Draw Hot Zone**, and click positions (at least three points) on the map in sequence to draw lines, and right-click the map to end drawing.

**NOTE!**

Frame hot zones drawn on a panoramic map cannot overlap. Otherwise, the drawn hot zone link is invalid.

(2) Icon hot zone: The **Map App** page supports jump to a linked defense zone. When a device in the linked defense zone generates an alarm, the defense zone icon blinks.

Right-click a defense zone map, and select **Add Hot Zone Link**. On the displayed **Hot Zone Setting** page, enter the hot zone name and linked defense zone (only sub zones of the defense zone), and click **OK**.

- Delete hot zones

  - To delete a frame hot zone, select it on the defense zone map, and click .

- To delete an icon hot zone, right-click it on the **Zone Devices** tab, and select **Delete Device**.

### 6.1.2 Third-party Devices

On the **Device Management** > **Third-party Devices** page, you can check the third-party device list, allocate defense zones, and bind cameras. Third-party devices include access controllers, alarm devices, intercom hosts/extensions, boolean value devices, and environment monitoring devices.

Figure 6-2 Third-party Devices Interface

#### 1. Configuring servers

A third-party device accesses through a DA server. Servers to be configured include:

- Device agent (DA) server

A DA server can access a third-party DVR or IPC and push the video of a third-party device to the management platform.

Configure as follows:

Click **DA Setting**, enter the IP address of the DA server, and click **OK** to log in to the DA server management page. For detailed operations, see the user manual of the DA client.

- Device agent for integrated security server (DA-IS)

A DA-IS can access a third-party alarm host, access controller, or intercom device, implement the seamless access of third-party devices, execute control commands delivered by the visual alarm server, and control the arming, disarming, door opening and closing of third-party devices.

Configure as follows:

Click **DA-IS Setting** to open the **Security Access Config Client** page. For detailed operations, see the user manual of the DA-IS client.

#### 2. Managing devices

You can allocate defense zones and bind cameras for accessed third-party devices, and search for and delete the devices.

Table 6-2 Third-party Devices Operations

| Operation | Description |
|---|---|
| Search for a device | In the upper right corner of the interface, you can search for a device by the device type, allocated or not, and a keyword. |
| Allocate a defense zone | Click the icon of the corresponding device in the device list, and select a defense zone from the defense zone list. |
| Bind a camera | Click the icon of the corresponding device in the device list, select the desired camera from the camera list, and click **OK**. |
| Delete device | • Select one or more devices to be deleted, click **Delete**, and confirm the operation. |

| Operation | Description |
| --- | --- |
| | • Select a device, click the corresponding icon , and confirm the operation. |

### 6.1.3 Device Icons

On the **Device Management** > **Device Icons** page, you can customize device icons.

Figure 6-3 Device Icons Interface

- Click to change the device icon, and synchronize the changed information to the server.
- Click **Download Latest Icons** to download the newest icons from the server.

### 6.1.4 GIS Maps

On the **Device Management** > **GIS Maps** page, you can set the type, add a mark, draw a defense zone, and edit a road network for an online map.

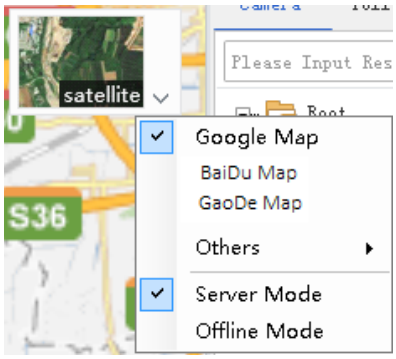
1. Setting maps

The client supports 2D and satellite maps of Baidu, AMAP, and Google. The system can interconnect to the map of a third party.

Two map modes are supported: server and offline.

- On the map page, click the drop-down arrow in , and select the desired map from the drop-down list.

Figure 6-4 Setting Map Type




- Click or to switch between 2D and satellite maps.

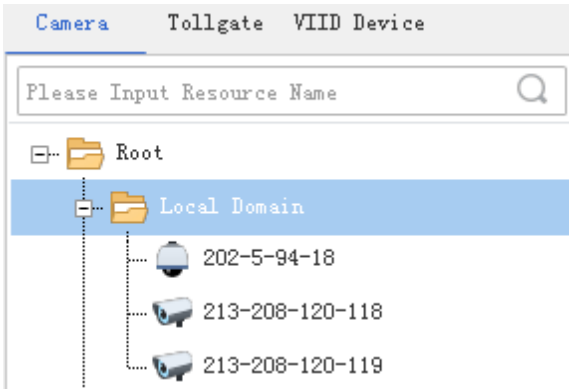
## 2. Adding marks

On a map, you can add camera spots, LPRs, indoor maps, poles, and public facility marks.

- Add a camera mark

(1) Select a camera from the camera list. Drag the camera to a proper location on the map.

Figure 6-5 Camera List




**NOTE!**

If the camera name contains the longitude and latitude information, it indicates that the camera has been marked on the map.

(2) On the **Camera Setting** page, set the parameters related to the camera mark.

Figure 6-6 Adding Spots

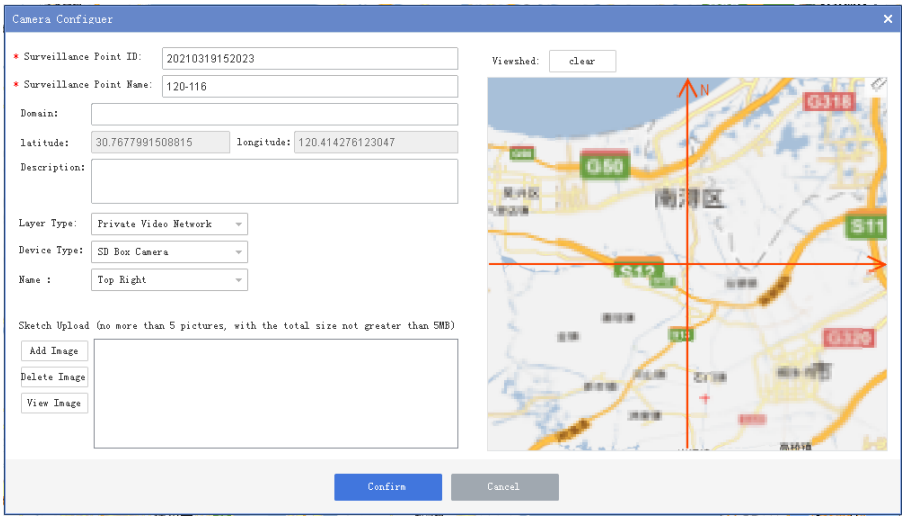



Table 6-3 Camera Configuration Description

| Operation | Description |
|---|---|
| Upload a sketch | You can add the environment images around the camera to facilitate maintenance.<br>Click **Add Image** to upload the corresponding image file. |
| Configure the viewshed | In the coordinate system on the right map, click point A, and then click point B in the clockwise direction. The central point, point A, and point B form a viewshed range. The viewshed distance is determined by point A. |

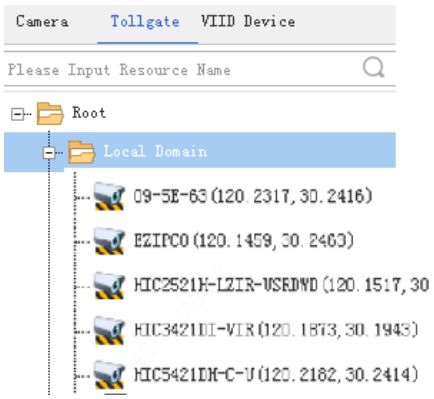
| Operation | Description |
|---|---|
| Configure latitude and longitude | Longitude and latitude of cameras are displayed. After the camera spot is added, restart the client. The longitude and latitude of the camera is displayed in the camera list. |

(3) Click **Save**.

- Add a Tollgate mark

(1) Select an tollgate camera from the tollgate list. Drag the camera to a proper location on the map.

Figure 6-7 Tollgate List




**NOTE!**

If the tollgate name contains the longitude and latitude information, it indicates that the tollgate has been marked on the map.

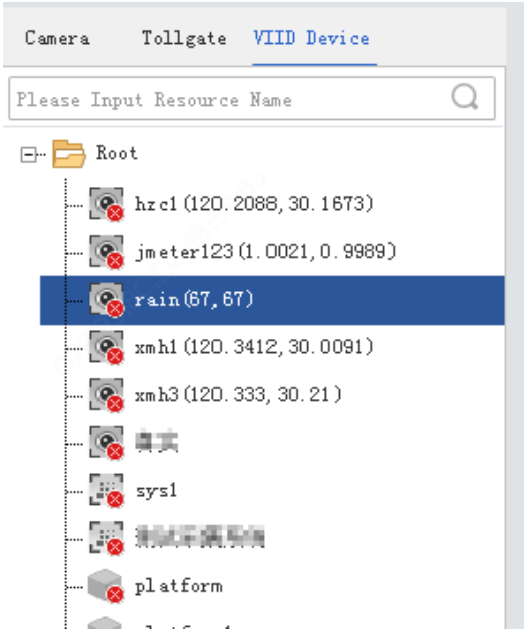
(2) On the **Tollgate Setting** page, set the parameters related to the camera mark.

(3) Click **Save**. After the LPR spot is added, restart the client. The longitude and latitude of the LPR are displayed in the LPR list.

- Add a device from the Video&Image Information Database

(1) Select an access device from the device list in the Video&Image Information Database. Drag the device to a proper location on the map.

Figure 6-8 Device List in the Video&Image Information Database




**NOTE!**

- indicates a collecting device, indicates a collecting system, indicates an application platform, and indicates a foreign domain. Only collecting devices can be marked on the map. For the access of a device in the Video&Image Information Database and related configuration, see the VM help.
- If the device name contains the longitude and latitude information, it indicates that the device has been marked on the map.

(2) On the **VIID Device** page, set the parameters related to the device mark, and then click **Save**.

(3) After the device spot is added, the longitude and latitude of the device are displayed in the device list.

### 3. Setting defense zones

- Draw a defense zone

(1) Click **More** on the toolbar, select **Defense Zone**, and click to add a defense zone.

(2) Draw defense zone edges by clicking.

  - Click to cancel the current drawing.
  - Click to save the current drawing. The **Add Defense Zone** window is displayed.

(3) Set the defense zone name, layer, and style (edge color, defense zone color, name color, edge style, edge thickness, fill color, and transparency).

(4) Click **OK**.

- Delete a defense zone

(1) Click **More** on the toolbar, select **Defense Zone**, and click to delete a defense zone.

(2) Click a defense zone to be deleted on a map, and confirm the deletion.

- If an area has only one defense zone, click **Yes** in the displayed dialog box to delete the zone.
- If an area contains multiple defense zones, select the defense zone to be deleted, and click **OK**.
- Modify a defense zone

(1) Click **More** on the toolbar, select **Defense Zone**, and click to modify a defense zone.

(2) On a map, select a defense zone to be modified. The **Modify Defense Zone** interface is displayed.

(3) Modify parameters of the defense zone.

(4) Click **OK**.

#### 4. Synchronizing camera information

It is used to synchronize camera information on the B/S client and the C/S client.

Click **More** on the toolbar, select **Synchronization**, and click to synchronize camera information on the map to the VM, or click to synchronize camera information on the VM to the map. Then, confirm the operation to complete camera information synchronization.

#### 5. Editing a road network

- Display a road network

It refers to displaying road layout of a city on the map.

(1) Click **More** on the toolbar, select **Road Network**, and click .

(2) Click the icon for displaying the road network .

- Edit a road network

(1) Click **More** on the toolbar, select **Road Network**, and click .

(2) Click the icon for editing the road network .

(3) Double-click on the map to start editing. Click on the map to mark the first point. Click on the map to mark the second and third points along the road. Right-click on the map to end editing.

(4) Input the road name. Determine whether to select a one-way road. Click **Submit**.

# 7 Alarm Center

## 7.1 Map Applications

You can locate and process an event in real time based on the map. The map application enables map mark, grid tracking, and defense zone division, and supports 2D and satellite maps of Baidu and AMAP,

and panoramic map in JPG format.

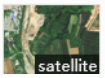
- When an alarm is generated, double-click the blinking icon on the map to enter the **Alarm Processing** page.
- When no alarm is generated, you can double-click a camera icon to check the live video of the camera, or double-click an icon of other devices to check the asset information.

**NOTE!**

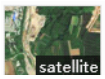
To use the map application, you need to bind the defense zone map and mark positions on the **Map Mark** page.

### 7.1.1 Online Map

#### 1. Setting map type

On the **Map App** page, select a defense zone of an online map, click the arrow on the right of 

, and then choose a map type from the drop-down list.

Click 

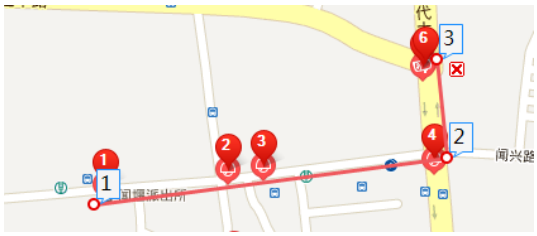
to switch the 2D map into a satellite map. Then, the icon changes to

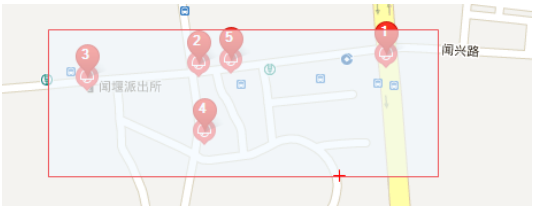
. Click the new icon to switch the satellite map into a 2D map.

#### 2. Selecting map elements

Click
. In
, click **Line Selection**, **Circle Selection**, **Rectangle Selection** or **Polygon Selection** to select elements on the map.

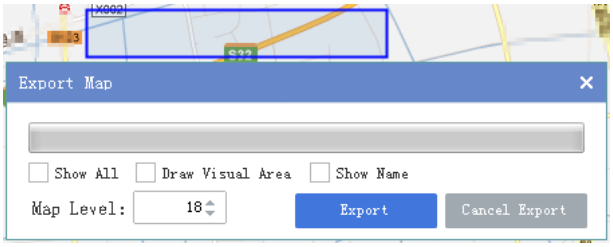
Table 7-1 Map Operation Description

| Function | Operation Description |
|---|---|
| Line selection | Draw a line segment on a map based on points. In this way, you can select cameras and other resources within 100 meters around the line segment.<br>  |
| Circular Selection | Draw a circle on a map. In this way, you can select cameras and other resources within the circle. The clicked position acts as the center, while the dragging trail acts as the radius.<br> |

| | |
|---|---|
| Rectangle selection | Draw a rectangle on a map. In this way, you can select cameras and other resources within the rectangle.<br>  |
| Polygon selection | Draw a polygon on a map based on points. In this way, you can select cameras and other resources within the polygon.<br> |

### 3. Map toolbar

Table 7-2 Map Toolbar Operation Description

| Function | Operation Description |
|---|---|
| Ranging | Click trails on a map to measure and display the distance between them. |
| Map export | The exporting function is used to download the pictures for identifying the specific zones of cameras. This function is mainly used for investigation and analysis.<br>(1) Press and hold **Alt** while clicking the right button of the mouse to select the zones to be exported.<br>(2) Click **More** and select **Map Export**. In the **Map Export** dialog box, set parameters, and click **Start Export**.<br>  <br>• **All Show**: displays all cameras. Offline cameras are also displayed.<br>• **Draw Viewshed**: displays the visible zones of cameras.<br>• **Show Name**: displays camera names.<br>• **Map Level**: indicates zooming level of a map. |
| Synchronization | Click **More** and select **Synchronization** to synchronize camera information, MAC, or RFID.<br>• : synchronizes camera information on the map to the VM.<br>• : synchronizes camera information on the VM to the map.<br>• : synchronizes the MAC information on the VM. |

| Function | Operation Description |
| --- | --- |
| | • : synchronizes RFID information on the VM.<br>**Note:**<br>You can perform the operation only on the **Edit Map** page. |
| Snapshot | Save the current map as an image. |
| Area | Rapidly locate a place by selecting province and city. |
| Map layer | Rapidly filter spots on a map by displaying and hiding map layers. |
| Full screen | Display a map in full screen mode. |
| Camera hotzone statistics | Display camera hotzones on a map. |
| Location information prompt mode | You can select **Display when the mouse moves in**, **Always display**, **Always hide**, and **Self-adaptive**. |
| Batch delete | Delete spots to which no devices are bound in batches.<br>**Note:**<br>• You can perform the operation only on the **Edit Map** page.<br>• After spots are deleted, restart the client to validate the changes. |

### 4. Jumping to a hot zone

Click a hot zone on the map to jump to the linked defense zone map. For how to set a hot zone, see Setting hot zones.

### 5. Device operations

On a map, you can add device icons, including camera spots, LPRs, indoor maps, poles, and public facility marks. For the operations, see GIS Maps.

### 6. Grid tracking

It takes a camera as the center and searches for the cameras nearby in turns according to the straight-line distance from near to far until the play pane is full of cameras.

Grid tracking is classified into live view and playback grid tracking.

- Live grid tracking: plays only the live videos of the central camera and nearby online cameras.
- Playback grid tracking: plays back videos of the central camera and nearby online cameras.

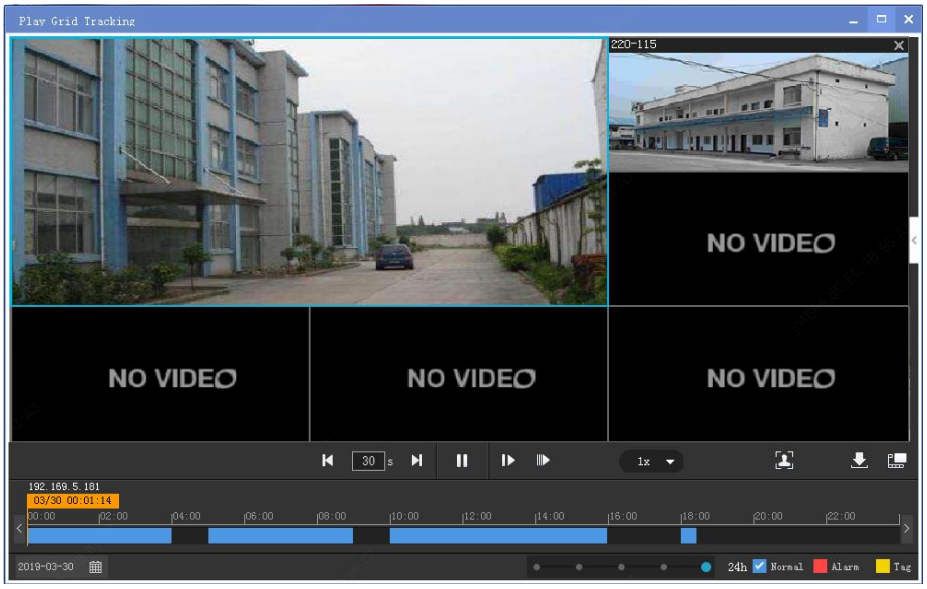
To enable this feature, select a camera on the map. Right-click it, and then select **Live Grid Tracking** or **Playback Grid Tracking**.

Then, the large pane plays the live video/playback video of the camera enabling grid tracking, and the small panes play the live videos/playback videos of tracked online cameras nearby.

You can double-click a small pane to play the live video/playback video of the camera on the large pane, and take this new camera as the center to recalculate the distances and track online cameras nearby.

Figure 7-1 Live Grid Tracking

Figure 7-2 Playback Grid Tracking




### 7. Spot aggregation

When you zoom in/out a map to a level below 16, cameras and LPRs on the map automatically aggregate and are displayed as numbers. A blue point indicates a camera, and an orange point indicates an LPR.

## 7.1.2 JPG Map

Different from an online map, a JPG map is a 2D map manually uploaded and bound in Map Mark.

## 1. Device icon operations

Table 7-3 Device Icon Function Description

| Icon | Device | Description |
|---|---|---|
| | Alarm device | You can click an alarm device icon and select the following functions:<br>• Unattended arming: After all personnel leave a defense zone, enable unattended arming to defend the defense zone and the surrounding area.<br>• Staying arming: When someone stays in the defense zone, enable staying arming to defend the surrounding area of the defense zone. Activities inside the defense zone will not cause alarms.<br>• Disarming: Disable device arming at the alarm point.<br>• Bypass: When an alarm device is faulty, enable bypass for the device. Then, the defense zone is not armed, which does not affect the arming of other defense zones.<br>• Reset: Reset a bypass device, and cancel bypass.<br>• Bypass-failure defense zone: When a defense zone is processed as a failure defense zone, activities inside the defense zone do not cause alarms. |
| | Camera | You can click a camera icon and select the following functions:<br>• Enable intercom: Enable intercom to the camera.<br>• Playback: Check the camera playback.<br>• Live view: Play the live video of the camera.<br>• Asset management: Check the asset information of the camera.<br>• Enable live grid tracking: Play the live videos of the camera and nearby online cameras.<br>• Enable playback grid tracking: Play back videos of the camera and nearby online cameras.<br>**Note:**<br>For description and operations of grid tracking, see Grid tracking. |
| | Intercom device | You can click an intercom host icon and select the following functions:<br>• Call an extension from the host.<br>• Enable broadcast on the host, including external sound source broadcast, broadcast to extensions, broadcast to hosts, and file broadcast to extensions.<br>• Call a host from the host. |
| | Access control device | You can click an access control device icon and select the following functions:<br>• Open the door.<br>• Close the door.<br>• Manage access information: You can query and print personnel access records by the name, ID card number, access card number, direction, or time. |
| | Environment monitoring device | Environment monitoring devices include wind speed, humidity, temperature, smoke, and PM2.5 sensors. Temperature, humidity, and PM2.5 devices display the corresponding values next to the icons in real time.<br>• You can click an environment monitoring device icon on a map and select **View Historical Data**.<br>• You can query historical data by time (second/minute/hour/day), and export the result to an excel table. A 2D curve is available for query by minute/hour/day. |

| Icon | Device | Description |
|---|---|---|
| | Map layer | You can click in the upper left corner of a map, and select to display various devices on the map as required. |

2. Jumping to a hot zone

Click a hot zone on the map to jump to the linked defense zone map. For how to set a hot zone, see Setting hot zones.

## 7.2 Alarm Records

Alarm records include real-time alarms, history alarms, and push messages. You can check subscribed alarms on corresponding pages and process them accordingly.

- Real-time alarm: alarm records generated in real time
- History alarm: history alarm records queried by criteria
- Push messages: alarm records pushed by other users

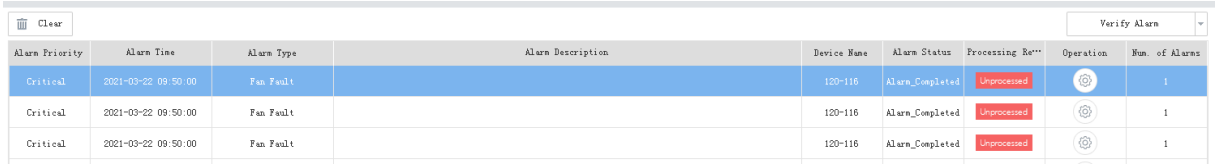
**NOTE!**

- For how to receive alarms, see Alarm Subscription.
- For how to filter repeated alarms, see Filter Rules.

### 7.2.1 Instant Alarm

An alarm generated is displayed in the instant alarm list on the **Alarm Records** > **Instant Alarm** page.

Figure 7-3 Instant Alarm




1. Processing an alarm

Double-click an alarm or click of an alarm record to process the alarm on the **Alarm Details** page.

Figure 7-4 Alarm Details

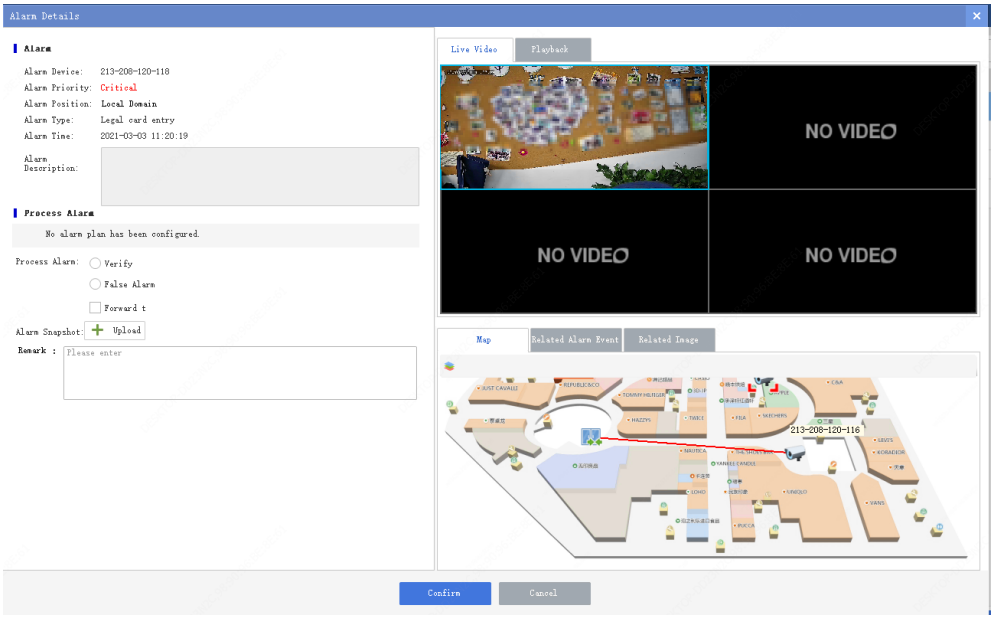
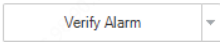
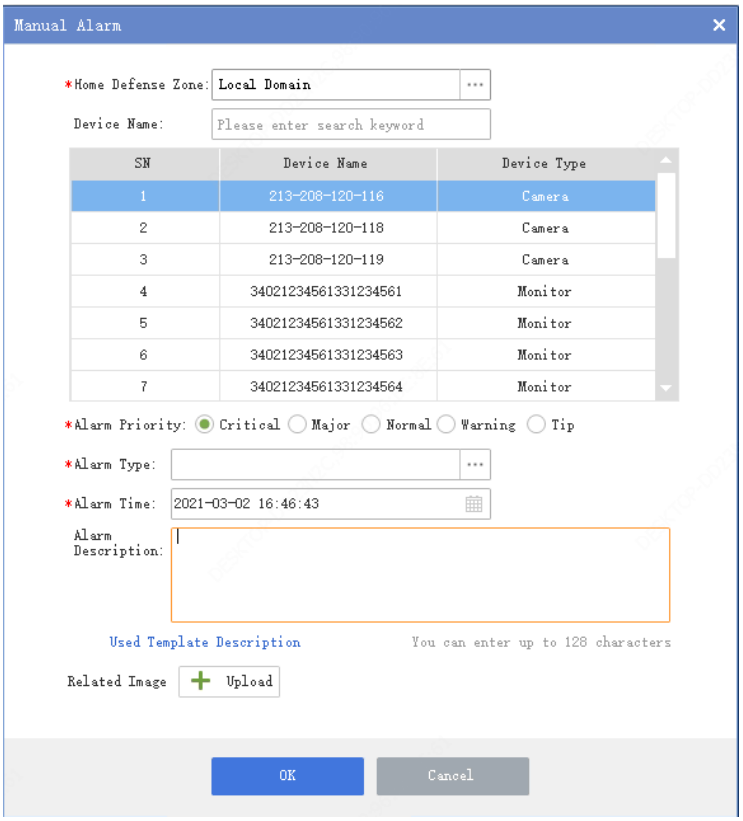



Table 7-4 Alarm Operation Description

| Operation | Description |
|---|---|
| Alarm info | View alarm information including the alarm device, level, position, type, time, and description. |
| Plan processing | Perform preset plan steps. If a step has been performed, click **Unprocessed** in the **Status** column to change it to **Processed**. After all steps are performed, the alarm is processed.<br>To preset plan steps, see Plan Steps in Alarm Center. |
| Alarm processing | Select **Acknowledge** or **False** based on the actual situation.<br>Select **Push** and select a user to report the alarm to the user.<br>**Note:**<br>You need to click **OK** to confirm the operation. |
| Snapshot | Click **Snapshot** and upload up to three alarm snapshots from the local device.<br>**Note:**<br>You need to click **OK** to confirm the operation. |
| Comments | You can enter comments here.<br>**Note:**<br>You need to click **OK** to confirm the operation. |
| Live View | Play the live video of the bound camera. |
| Playback | Play back the video before and after the alarm. The duration can be set in Local Configuration. |
| Map | You can check the location of the alarm device on the map. For map operations, see Map Application. |
| Linked snapshot | You can check snapshots linked to the alarm. |
| Linked alarm event | You can check the list of linked alarm events. |

## 2. Other operations

Table 7-5 Real-time Alarm Operation Description

| Operation | Description |
| --- | --- |
| Clear | Click **Clear** to clear the list of real-time alarms. |
| Quick processing | Select one or more alarm records, and click the drop-down arrow of  in the upper right corner of the page to quickly process the alarm records.<br>• Acknowledge: Select an alarm, select **Acknowledge**, add remarks, and click **OK**.<br>• False: Select an alarm, select **False**, add remarks, and click **OK**.<br>• Report: Select an alarm, select **Report**, select a user from the user list, and click **OK**. |
| Manual alarm | Click **Manual Alarm**, set the defense zone, device, alarm level, type, description, and time, click **Upload** to upload related images, and click **OK** to generate a manual alarm.<br>  |
| One-click alarm | Click **One-click Alarm** to generate an emergency alarm without any configuration in an emergency. |

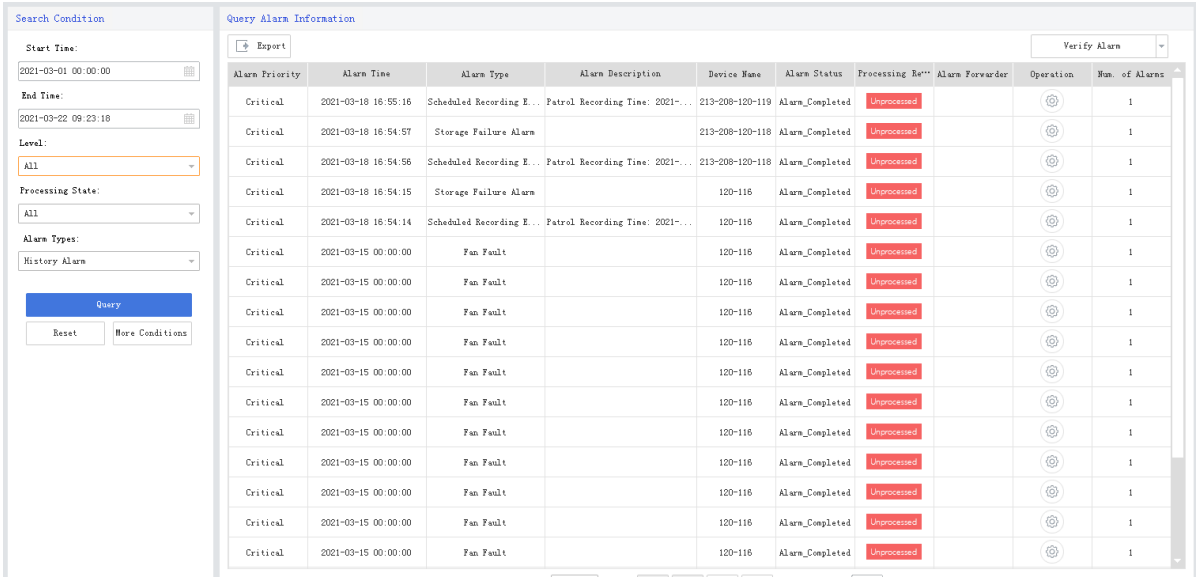




## 7.2.2 History Alarm

On the **Alarm Records** > **History Alarm** page, you can set criteria to query history alarms and process them accordingly.

Figure 7-5 History Alarm




To query history alarms, do as follows:

(1) On the left pane of the **History Alarm** page, set the query criteria, including the alarm time range, level (all, emergency, critical, minor, warning, or alert), status (all, unprocessed, acknowledged, or false), and type (history alarm or forwarded alarm), and click **Query**.

(2) (Optional) Click **More Conditions**. On the **Alarm Filter** page, set the filter criteria, including the alarm device, type (such as high-temperature alarm or disk fault), processing user, group, and description. Then, click **Apply** to filter queried results.

The right pane of the **History Alarm** page displays queried results. You can operate them as follows.

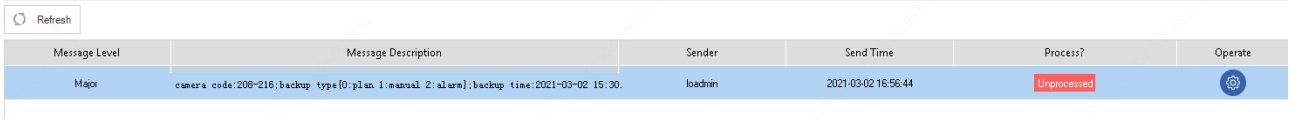
Table 7-6 History Alarm Operations

| Operation | Description |
|---|---|
| Quick processing | Select one or more alarms by holding **Ctrl**, and click the drop-down arrow of Verify Alarm in the upper right corner of the page to quickly process the alarms.<br>• Select **Acknowledge**, add remarks, and click **OK** to acknowledge the alarms.<br>• Select **False**, add remarks, and click **OK** to process the alarms as false alarms.<br>• Select **Report**, select a user from the user list, and click **OK** to push the alarms. |
| Alarm processing | Double-click an alarm or click of an alarm to open the **Alarm Details** page. For related operations, see Processing an alarm. |
| Export | Click **Export** to export alarm images, recordings, and other information. |

### 7.2.3 Pushed Message

On this page, you can check alarms reported by other users, and double-click an alarm or click to process the alarm. For how to push an alarm to another user or process alarms, see Real-time Alarm or History Alarm.

Figure 7-6 Pushed Info




**NOTE!**

On the **Pushed Info** page, you can process alarms that are already processed by other users again and update the alarm processing result.

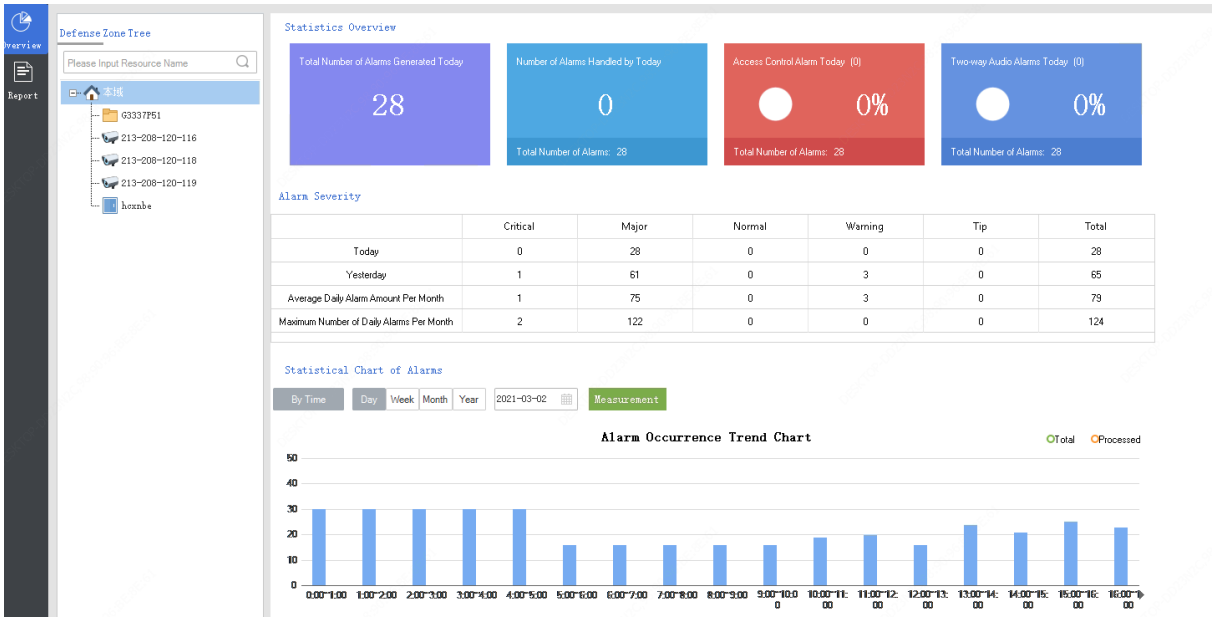
## 7.3 Alarm Statistics

The system can present alarm trends by day, week, month, and year.

### 7.3.1 Overview

On the **Alarm Statistics** > **Overview** page, you can select a defense zone in the defense zone tree or select a resource to display overview of the alarm statistics, including statistics of alarms today and alarm levels, and the alarm trend.

Figure 7-7 Alarm Statistics - Overview



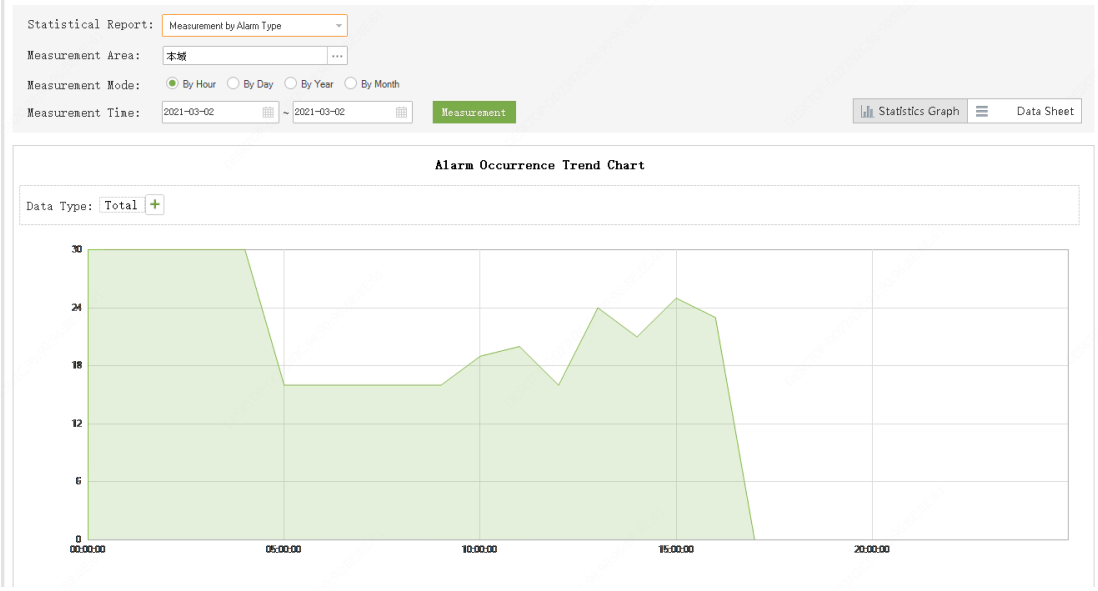

### 7.3.2 Report

On the **Alarm Statistics** > **Report** page, you can collect alarm data in a period and an area by hour, day, month and year according to the alarm type or alarm group.

**NOTE!**

- Select **Statistics by alarm type** or **Statistics by alarm group**, and click + to add statistical data of the corresponding type.
- You can switch the statistics graph and data sheet.

Figure 7-8 Alarm Statistics - Report

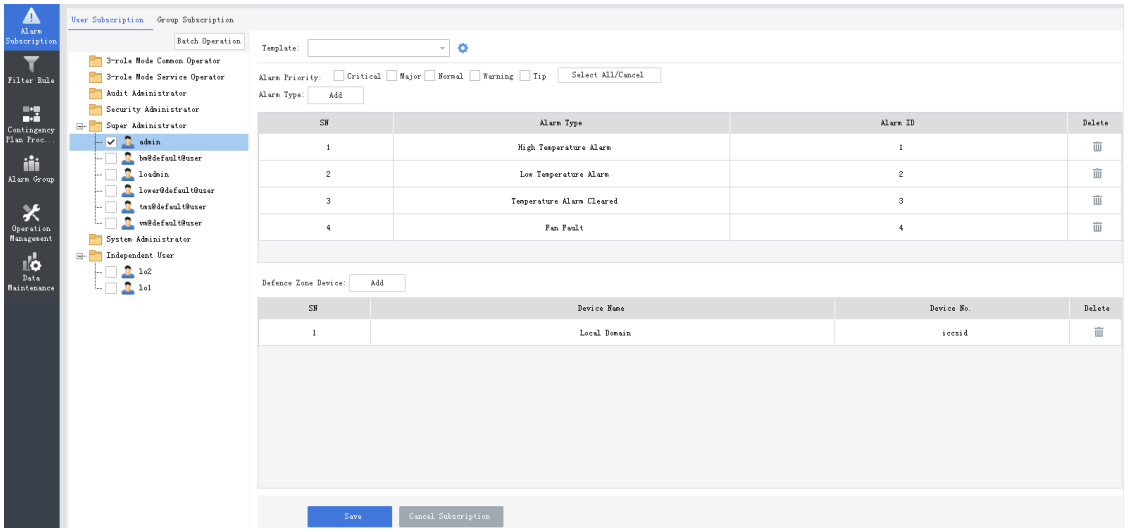



# 7.4 Alarm Configuration

## 7.4.1 Alarm Subscription

You can subscribe to alarms as required. Then, when an alarm in the corresponding type is generated, the alarm will be displayed on the **Alarm Records** page.

Figure 7-9 Alarm Subscription




## 1. Template configuration

(1) Select **Alarm Configuration** > **Alarm Subscription**.

(2) Click to the right of **Template** to enter the **Subscription Template Setting** page.

(3) Click to add a template in the template list.

(4) Enter the template name and description, select alarm levels, and add alarm types and defense zone devices.

(5) Click **Save** to complete the template configuration.

## 2. User subscription

You can subscribe to alarms for users individually or in batches.

- Subscribe individually

(1) On the **User Subscription** tab, select the desired user from the left.

(2) Select alarm levels, and add alarm types and defense zone devices on the right. Alternatively, select a subscription template from the **Template** drop-down list box.

(3) Click **Save**.

- Subscribe in batches

(1) On the **User Subscription** tab, click **Batch Set** and select desired users from the left user list.

(2) Select alarm levels, and add alarm types and defense zone devices on the right. Alternatively, select a subscription template from the **Template** drop-down list box.

(3) Click **Save**.

## 3. Group subscription

You can group users and subscribe to alarms for user groups.

(1) On the **Group Subscription** tab, click to enter the **Subscription Group Info** page.

(2) Enter the subscription group name and description, and add users.

(3) Click **OK** to add a subscription group.

(4) Select a subscription group to be configured from the group list on the left.

(5) Select alarm levels, and add alarm types and defense zone devices on the right. Alternatively, select a subscription template from the **Template** drop-down list box.

(6) Click **Save**.

**NOTE!**

In the group list, you can modify and delete a group.

- Click of a group, and on the **Subscription Group Info** page, change the subscription group name or description, or add or delete subscription users.
- Click of a group to delete the group and the alarm subscriptions of the group. Be careful to perform this operation.

#### 4. Subscription cancellation

(1) Select **Alarm Configuration** > **Alarm Subscription**.

(2) On the **User Subscription** or **Group Subscription** tab, select desired users or groups.

(3) Click **Cancel Subscription**.

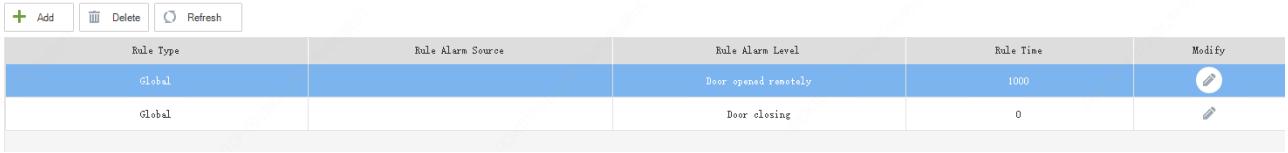
### 7.4.2 Filter Rules

You can set alarm filter criteria to automatically filter alarms reported repeatedly in a short time to enhance the alarm processing efficiency.

**NOTE!**

This function is valid only for third-party device alarms pushed by the DA-IS.

Figure 7-10 Filter Rules




The procedure is as follows:

(1) Enter the **Alarm Configuration** > **Filter Rules** page, and click **Add**.

(2) On the **Alarm Filter Rule Edit** page, select the rule type global or resource.

(3) Select alarm types and set the time to automatically filter alarms reported repeatedly in the duration.

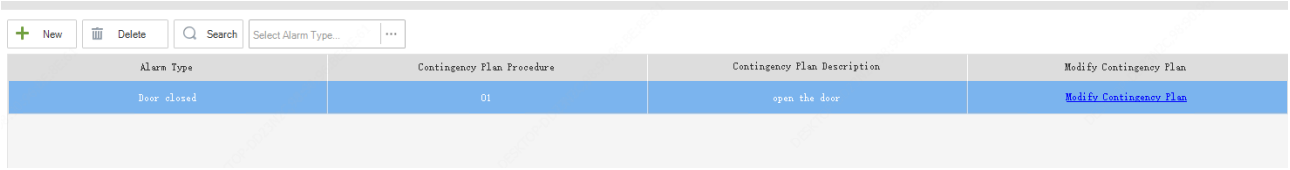
(4) Click **OK**.

### 7.4.3 Plan Procedure

You can set plan steps for various alarms. When processing an alarm, you can check the plan steps on the

page and process the alarm by following the steps. For alarm processing steps, see Processing an alarm.

Figure 7-11 Plan Steps




To configure plan steps, do as follows:

(1) Enter the **Alarm Configuration** > **Contingency Plan Procedure** page, and click **New**.

(2) Select the desired alarm type.

(3) Click **Add Procedure**, double-click the corresponding cells in the **Contingency Plan Procedure** and **Contingency Plan Description** columns in the plan step list, and enter the content.

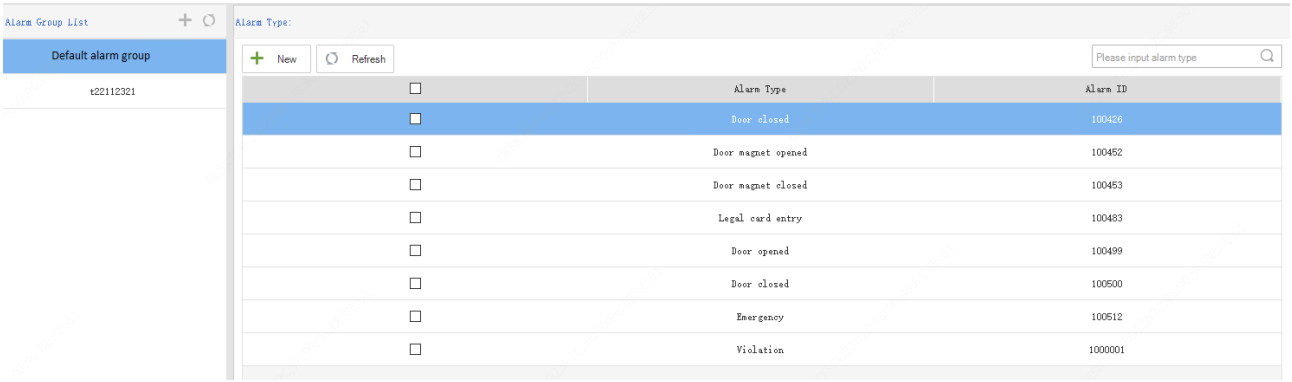
(4) Repeat step 3 according to the actual processing steps.

(5) Click **Save**.

### 7.4.4 Alarm Group

You can group alarms in different types based on the actual management requirements.

Figure 7-12 Alarm Group




The procedure is as follows:

(1) Click in the left alarm group list.

(2) On the displayed **New Group** page, enter the group name and click **OK**.

(3) On the alarm type page, click **New**.

(4) On the displayed **Add** page, select alarm types. You can query alarm types by the name and number.

(5) Click **OK**.

**NOTE!**

- An alarm type can be added to only one alarm group.
- The default alarm group cannot be renamed or deleted.

### 7.4.5 Operation Management

On the **Operation Management** tab, you can jump to the **IMP Server** page. For detailed operations, see the user manual of the IMP client.

### 7.4.6 Data Maintenance

You can configure life cycles (retention periods) for data sheets and images to automatically clear expired data and images and ensure smooth running of the system.

**NOTE!**
Only the admin has the configuration permission.

Manageable data sheets include the alarm record table, people statistical table, and pass-through vehicle record table. Manageable images include YunSuo images, access control images, and alarm images. You can configure as required.

- Data retention period

On the **Data Sheet Retention Period** tab, perform the following operations to configure the data sheet retention period:

  - Click **New**. On the displayed **Data Life Cycle Edit** page, select a data sheet, and configure the life cycle. Then, click **OK**.
  - Click of a configured data sheet, modify the life cycle on the displayed **Data Life Cycle Edit** page, and click **OK**.

- Image retention period

On the **Image Retention Period** tab, perform the following operations to modify the retention period of YunSuo images, access control images, and alarm images:

Click the corresponding icon, modify the life cycle on the **Image Life Cycle Edit** page, and click **OK**.

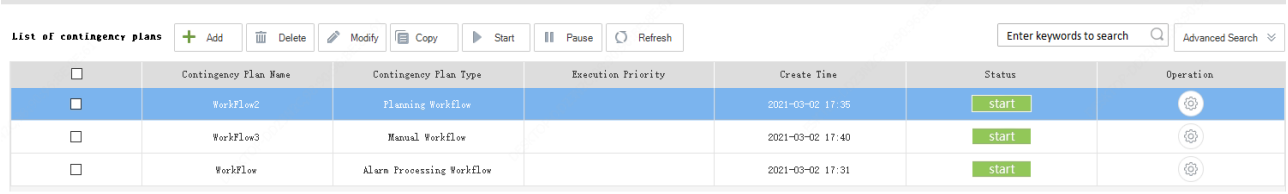
## 7.5 Plan Customization

Plan customization enables the system to automatically process pre-defined work tasks (workflows) according to specific task and execution rules.

You can customize the following three plan types:

- Alarm processing plan: Linked processing is automatically triggered by the alarm source.
- Scheduled plan: Linked processing is automatically triggered by time.
- Manual plan: Linked processing is manually triggered.

Figure 7-13 Plan Customization




### 7.5.1 Plan Customization Functions

Plan customization functions include the following four aspects:

- Alarm preprocessing: The workflow is triggered by an alarm source, alarm association, alarm filtering, or alarm modification.
- Alarm decision-making: A generated alarm can be acknowledged by a user first, and the next link is determined by the result.
- Alarm triggering: You can add triggered actions in a plan.
- Scheduled processing: The plan implementation time can be controlled by configuring the trigger time or delayer.

Table 7-7 Plan Customization Functions Description

| Customization Function | | Description |
|---|---|---|
| Alarm preprocessing | Alarm association | When associated multiple alarm sources all generate alarms within a specified time, go to the next link. |
| | Alarm modification | Modify alarms of a certain type. |
| | Alarm source | Set alarms of a certain type as the trigger source of a workflow. |
| | Alarm filter | Filter alarm sources, and go to the next link when the filter criteria are met. |
| Alarm decision-making | Acknowledgment result | Set different acknowledgment results (**Acknowledged**, **False**, or **Timeout**) to trigger varied actions. |
| | User acknowledgment | Acknowledge a generated alarm. |
| Alarm triggering | Play preset position live video | Play the live video in the specified preset position associated with the camera. |
| | Live view on pane | Play the camera live video on the specified pane or in the pop-up window. |
| | Live view on monitor | Play the camera live video on the specified monitor screen. |
| | Set boolean value | Trigger the specified boolean value device. |
| | Recording backup | Back up the specified camera. |
| | Send SMS message | Send an SMS message to the specified mobile number. |
| | Run script | Run the specified script. |
| | Start storage | Store the specified camera. |
| | Device control | Control the specified device to open/close the door, arm/disarm, bypass/reset, or enable/disable the relay. |
| | Playback on pane | Trigger camera playback on the specified pane. |

| Customization Function | | Description |
|---|---|---|
| | Text message | Send a text message to the specified user.<br>**Note:**<br>For an alarm processing plan, you can directly process the alarm in the text message dialog box. (Click **Alarm Processing** to open the alarm details page, and then click **Acknowledge** or **False**.) |
| | Open file | Send an image or a file, or play an audio file to the specified user. |
| | Live view on video wall | Play the camera live video on the specified monitor screen of the video wall. |
| | Close live view | Close live view on the specified pane. |
| | Enable broadcast | Trigger the specified host to broadcast to extensions. |
| | Voice broadcast | Voice broadcast alarm-related information to the specified user. |
| | Enable intercom | Trigger the intercom between the host and the specified extension. |
| | Play the live video of the associated camera | Play the live video of the camera bound to the device on the specified pane or in the pop-up window. You can set the interval and quantity of snapshots. |
| | Across-domain report | Report an alarm across domains. |
| | Grid tracking | Trigger grid tracking by taking the specified camera as the center. |
| | Send UDP packet | Send the configured packet to the preset address. |
| | Start patrol | Trigger the specified PTZ camera to patrol along the preset route. |
| | Alarm forwarding | Forward alarm information to the specified user. |
| | Trigger A8 video wall | Play the live video of the specified camera on the specified A8 video wall. |
| Scheduled processing | Trigger time | Set the trigger time of a plan workflow. |
| | Alarm generation | An alarm can be manually generated or triggered by other actions. |
| | Batch live view | Play the live videos of multiple cameras on the specified pane or in the pop-up window at the specified switching interval. |
| | Delayer | Set the delayed trigger time. |

### 7.5.2 Plan Setting

Click **New** and select the plan customization type to set a corresponding plan. The procedure is as follows:

(1) Select workflow modules from the left list and drag them to the blank area in the center.

(2) Select the workflow modules respectively and configure the relevant parameters on the right.

(3) Connect the workflow modules according to the actual business process.

To ensure a clear plan process, keep the next module under the previous one when connecting.

**NOTE!**

During plan setting, you can add and delete nodes, and adjust the node layout.

- Right-click a node, and select **Delete Node** or **Delete Connection**.
- Click **Select Mode**, and select nodes (by pulling a box or holding **Ctrl** and clicking them) to drag them, align them to the left, center them horizontally, align them to the right, align them to the top, center them vertically, align them to the bottom, arrange them horizontally, arrange them vertically, or perform other operations.

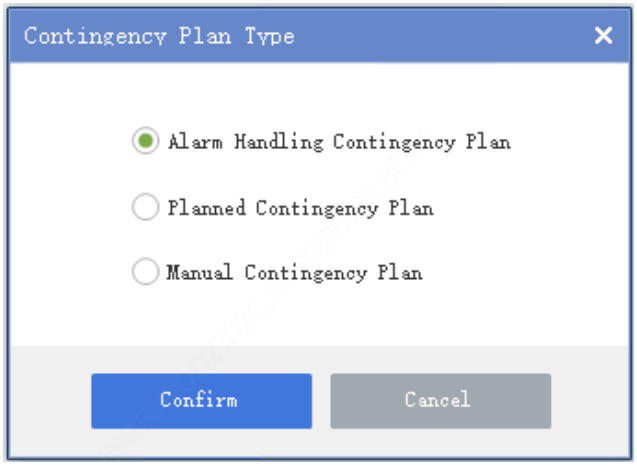
### 1. Setting an alarm processing plan

This section sets a plan of device fault alarm triggering live view.

Employee A is a device manager, who wants to play the live video of a device immediately when the device is faulty. In this case, set the following workflow:

(1) Click **Add** and select **Alarm Handling Contingency Plan.**

Figure 7-14 Plan Type




(2) Select and drag **Alarm Source** from the left list to the blank area, and set parameters on the right.
   - Select **Filter Alarm Type** and click **Select Add** to set alarm types on the **Alarm Type List** page.
   - Set the alarm time, filter alarm level, filter device, filter defense zone, and other parameters, and save the settings.

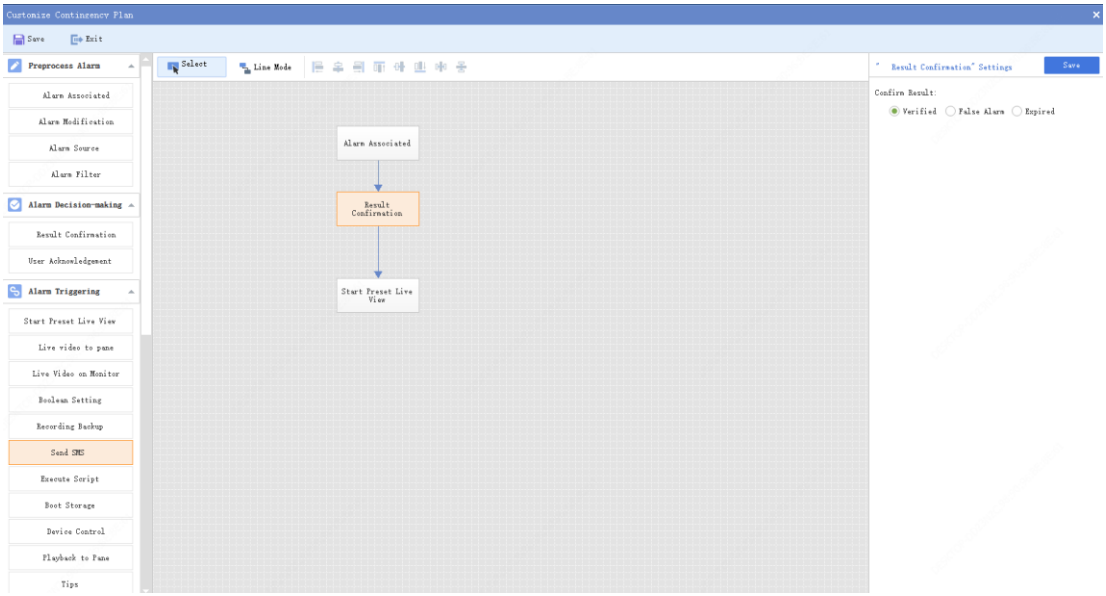
(3) Select and drag **Live View on Pane** from the left list to the blank area under **Alarm Source**, and set parameters on the right.
   - Click **Select Add** and select the desired user from the user list.
   - Select the desired camera.
   - Select the desired pane, which can be a pop-up window.
   - Select whether to enable snapshot, and save the settings.

(4) Click **Connect Mode**, and click **Alarm Source** and **Live View on Pane** in sequence.

(5) Click **Select Mode**, and select the workflow modules to adjust the positions to ensure clear flowchart.

(6) Click **Save**, and enter the plan name and priority to finish the plan configuration.

Figure 7-15 Alarm Processing Plan Flowchart



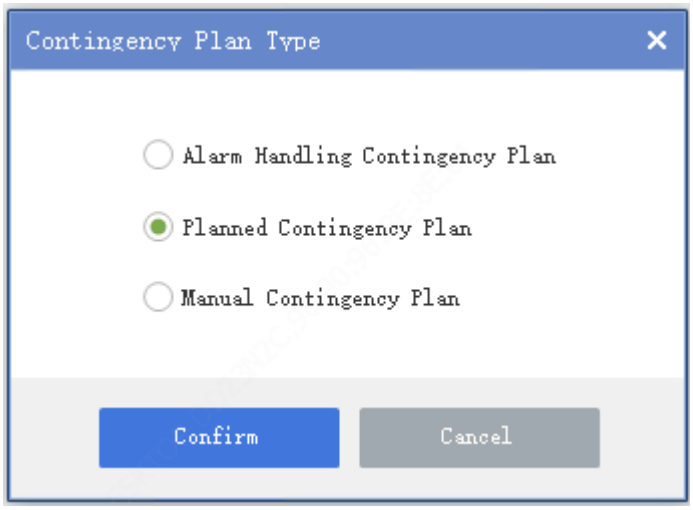

## 2. Setting a scheduled plan

This section sets a time-based arming plan.

Important places (such as bank vaults and museum exhibition halls) in a defense zone need to restrict personnel access in fixed periods of time. Conventionally, IR arming is enabled in non-working hours (such as from 23:00), and disabled in working hours (such as from 8:00). However, for higher efficiency, a scheduled workflow can be configured.

(1) Click **Add** and select **Planned Contingency Plan**.

Figure 7-16 Plan Type




(2) Drag **Trigger Time** several times as required from the left list to the blank area under **Plan**, and set the trigger time and repeat mode on the right.

- Set the first **Trigger Time** to 23:00, and the second **Trigger Time** to 8:00.
- Set repeat mode to everyday, and save the settings.

(3) Drag **Device Control** several times as required from the left list to the blank area under **Trigger Time**, and set the device events on the right.

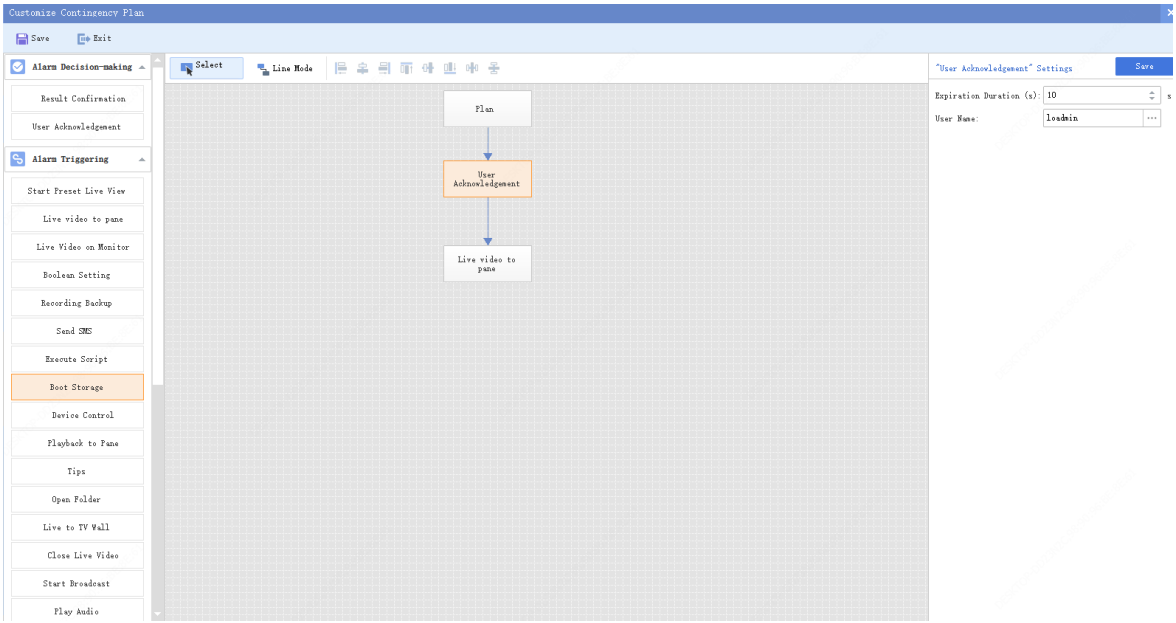
- Set the first **Device Control** to **Unattended Arming**, select the device, and save the settings.
- Set the second **Device Control** to **Disarming**, select the device, and save the settings.

(4) Click **Connect Mode**, and click **Plan** and **Trigger Time** in sequence to connect them.

(5) Click **Select Mode**, and select the workflow modules to adjust the positions to ensure clear flowchart.

(6) Click **Save**, and enter the plan name and priority to finish the plan configuration.

Figure 7-17 Scheduled Plan Flowchart



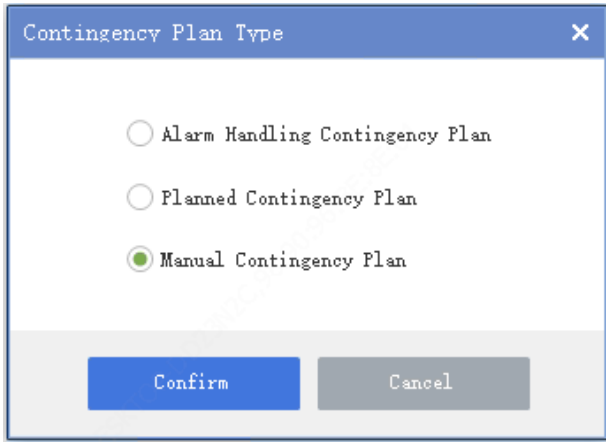

### 3. Setting a manual plan

This section sets a plan of manually closing all access doors.

If illegal intrusion into a restricted area in a defense zone is detected, manually and immediately close all the doors in the area.

(1) Click **Add** and select **Manual Contingency Plan**.

Figure 7-18 Plan Type



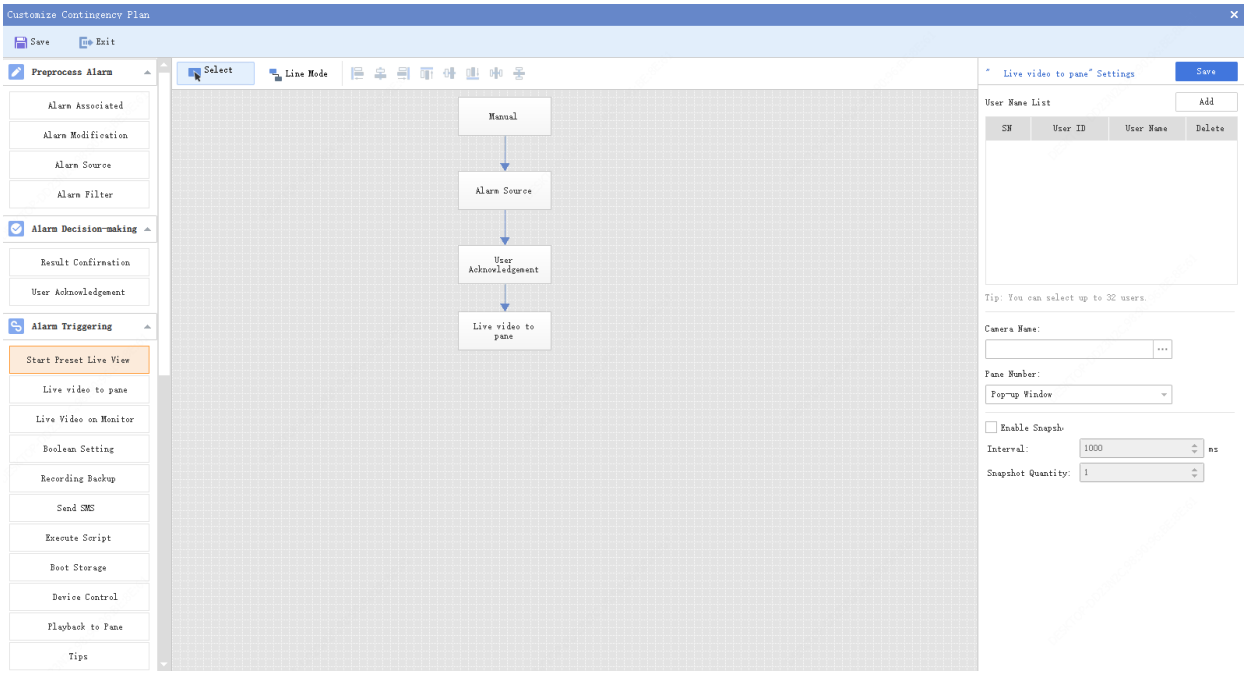

(2) Drag **Device Control** several times as required from the left list to the blank area under **Manual**, set the devices to required access controllers, set all device events to **Close Door**, and save the settings.

(3) Click **Connect Mode**, and click **Manual** and **Device Control** in sequence to connect them.

(4) Click **Select Mode**, and select the workflow modules to adjust the positions to ensure clear flowchart.

(5) Click **Save**, and enter the plan name and priority to finish the plan configuration.

Figure 7-19 Manual Plan Flowchart




## 7.5.3 Other Operations

- Modify the basic information about a plan

  Select a plan, click **Modify** to modify the plan name and priority, and then click **OK**.

- Modify plan customization

  Double-click a plan or click the corresponding icon, modify the customization on the displayed **Plan Setting** page, and then click **Save** and **Exit** in sequence.

- Copy a plan

  Select a plan, click **Copy**, change the plan name in the displayed **Copy Plan** dialog box, and click **OK**.

- Enable/Disable plan

  Select one or more plans and click **Enable**. The status of enabled plans is displayed as .

  Select one or more plans and click **Pause**. The status of paused plans is displayed as .

- Delete plan

  Select one or more plans, click **Delete**, and confirm the operation.

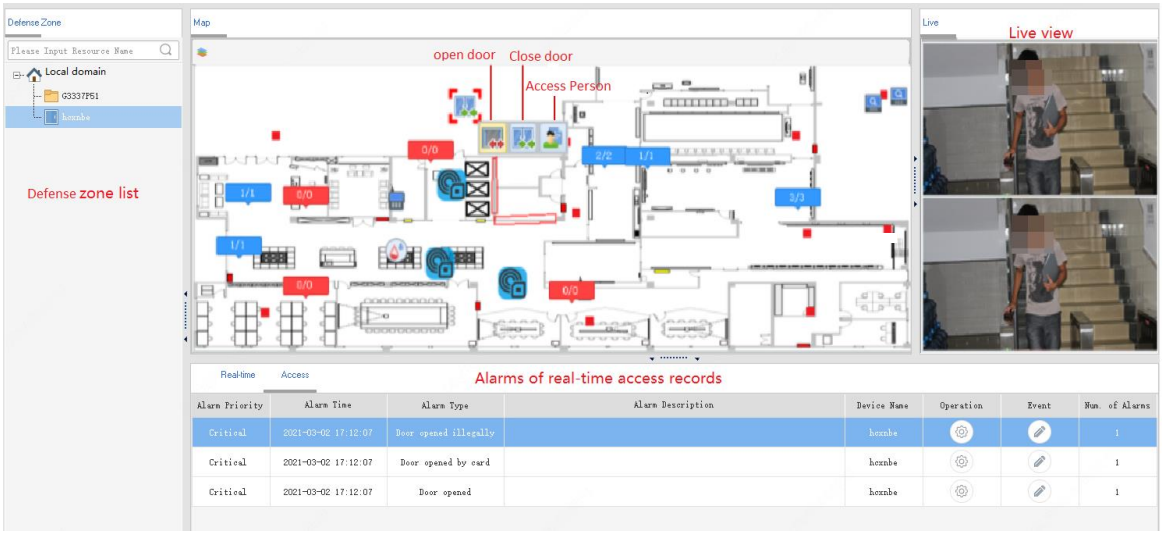
# 8 Access Control Management

The system can be connected to the access control system, providing access control events, access control alarms and other functions, enabling users to check access personnel information and live videos at the first time, and fully satisfying the needs of users.

**NOTE!**
You need to add access control devices to the defense zone in **Device Management** before you can use this function.

## 8.1 Access Control Monitoring

Figure 8-1 Access Monitoring



Select a defense zone from the left defense zone list, and then you can perform the following operations:

### 1. Operating access control devices

Click an access control device on the map to manually open the door, close the door, or check access personnel information.

- To manually open the door, click the access control device icon, and click .
- To manually close the door, click the access control device icon, and click .
- To check access personnel information, click the access control device icon, and click .

### 2. Checking live videos and real-time access records

- The system plays live videos of access alarms. You can manually close the live video playing window.
- The lower part of the **Access Monitoring** page displays real-time access records.

### 3. Processing access alarms

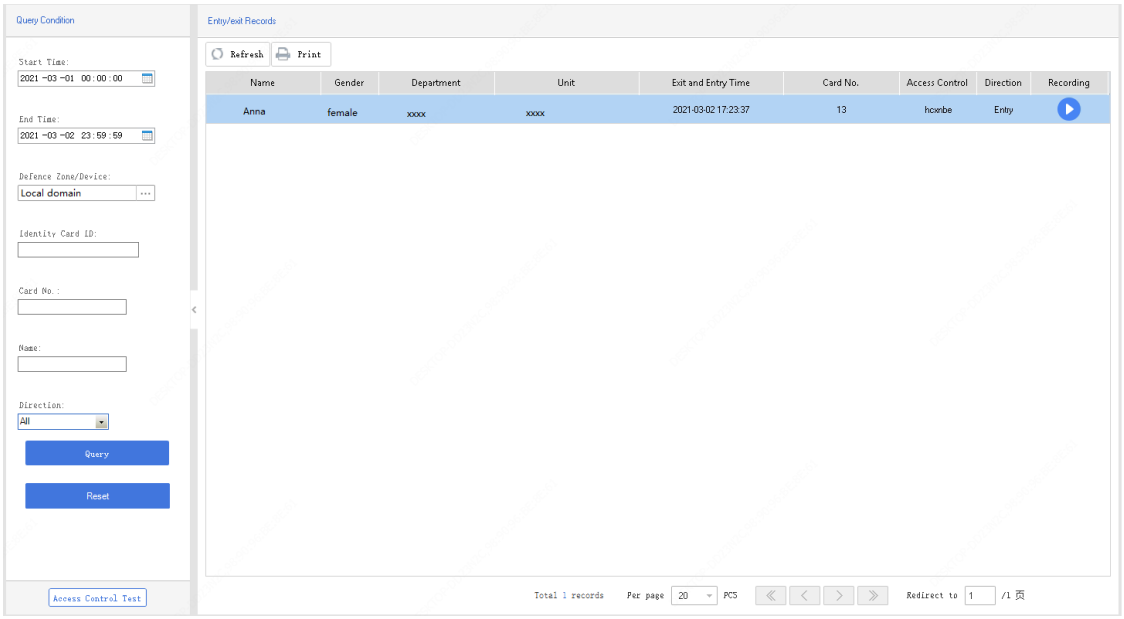
Click the **Access Alarm** tab on the **Access Monitoring** page to check the alarms.

Click to process an alarm. For the operations, see Processing an alarm of Real-time Alarm.

## 8.2 Entry/Exit Records

You can query access records of an access control device in a defense zone.

Figure 8-2 Access Record




### 1. Checking access records

(1) On the left pane, set criteria such as the time range, defense zone/device, ID card number, access

card number, name, and direction, and click **Query** to search for access records.

**NOTE!**

When a defense zone is selected, access records of all access control devices in the selected defense zone and the sub defense zones are queried. When an access control device is selected, access records of the selected device are queried.

(2) For an access record, you can check the details, check the recording, and print the record.

- Double-click an access record to check the person image, person information, playback recording, and snapshot upon card swiping (when a card is swiped, the associated camera automatically takes a snapshot and uploads it).
- Click to play the access video.
- Click **Print** to print access records.

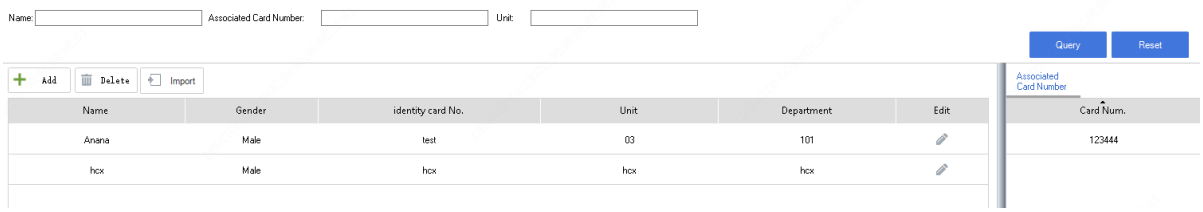
### 2. Testing access control functions

Click Access Control Test, and set the defense zone, device name, access direction, access time, and employee ID to test the functions of the access control device.

## 8.3 Personnel Management

You can bind the information about card-swiping persons with card numbers to quickly identify the detailed information about access personnel.

Figure 8-3 Personnel Management




### 1. Adding personnel

- Add a single person

(1) Click **Add** to open the **Personnel Information Edit** page.

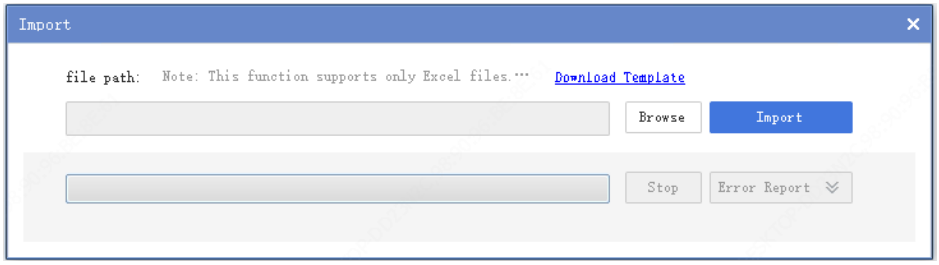
(2) Enter the person name, gender, ID card number, unit, department, profile phone, and other information.

(3) Click **OK**.

- Import personnel information in batches

(1) Click **Import**.

Figure 8-4 Importing Personnel in Batches




(2) Click **Template Download** to download the template file to the local device, and enter information about personnel to be imported according to the template requirements.

(3) Click **Browse**, and select the local template file.

(4) Click **Import** to import the personnel information in batches.

### 2. Binding card numbers

Select a person from the personnel list, click + in the lower part of the list of associated card numbers on the right, and enter the card number.

**NOTE!**

- One person can be bound with multiple card numbers, while one card number can be bound only to one user.
- Select a card number from the list of associated card numbers, and click in the lower part to unbind it.

### 3. Other operations

- To query a person, set the name, associated card number, unit, or other criteria, and click **Query**.
- To edit a person, select the desired person from the personnel list, click the corresponding icon, edit the information on the displayed page, such as the name and unit, and then click **OK**.
- To delete personnel, select one or more desired persons (by holding **Ctrl**), click **Delete**, and confirm the operation.

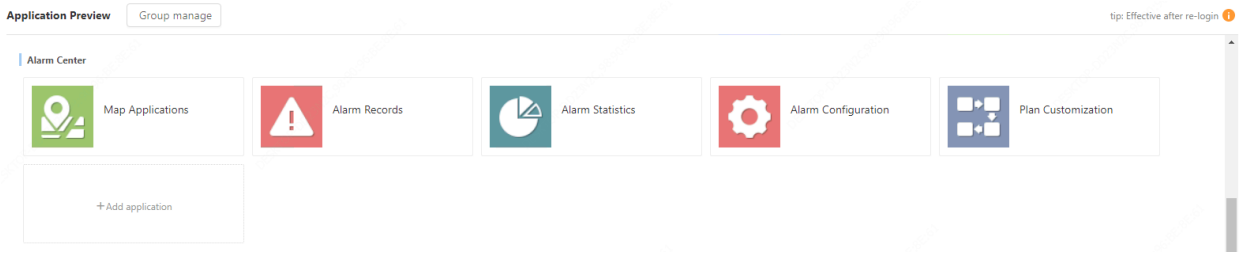
# 9 System Configuration

Among system configuration, you can edit the interface, data dictionary, and user permissions.

## 9.1 Application Management

Services are displayed on functional cards. Each card represents a service function. All the functional cards are grouped by the service type. On the **Application Management** page, you can add a card group or card, and set the card group/card layout, text, and color. After the configuration, restart the client to make it effective and check it in **Application Center**.

Figure 9-1 Previewing Functional Cards



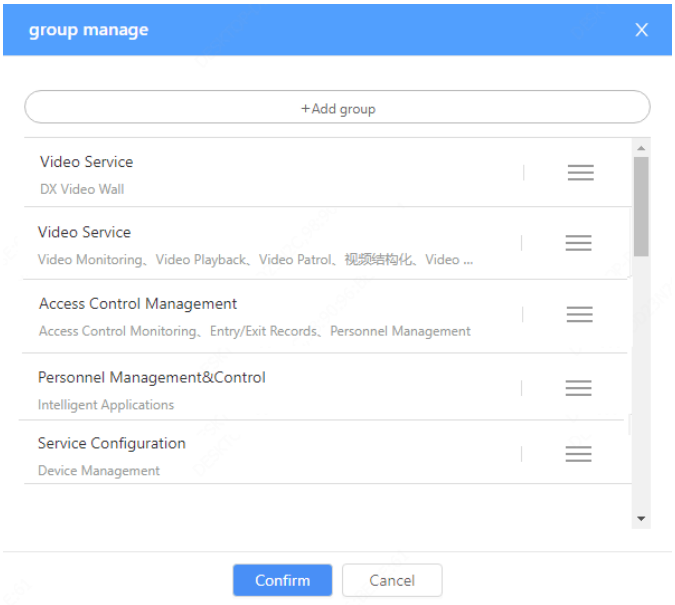

### 9.1.1 Configuring Card Groups

You can group service functions of the same type for management. You can add a card group, change the title, hide the group, or adjust the position.

#### 1. Adding a card group

(1) Click **Group Management** in the upper left corner of the page.

Figure 9-2 Group Management




(2) Click **New Group**, enter the group name, and click **OK**.

Figure 9-3 New Group

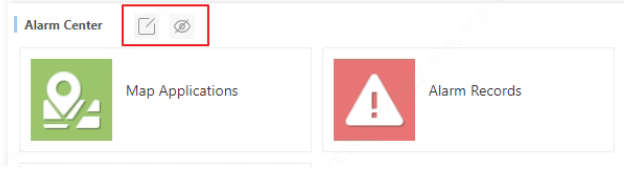
#### 2. Modifying a card group

Place the cursor on the title bar of a card group to display the configuration icons of the group.

- Click to modify the card group title.
- Click to hide the card group. Then, the group is not displayed on **Home Page** > **Page Navigation**

and the client menu bar.

Figure 9-4 Card Group Attributes




### 3. Adjusting the position of a card group

Click **Group Management**, and drag a group in the group list on the **Group Management** page to adjust the group position.

On the **App Card Preview** page, drag a group to adjust the position.

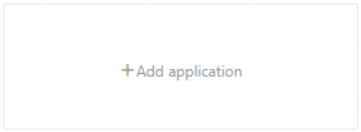
## 9.1.2 Configuring Cards

A card presents a service function module. You can add a card, change the parameters, hide the card, or adjust the position.

### 1. Adding a card

(1) Click the card addition area in the card group to add a card.

Figure 9-5 Adding a Card




(2) Set card parameters on the displayed **Add Application** page.

Figure 9-6 Adding a Card (Embed Plug-In)

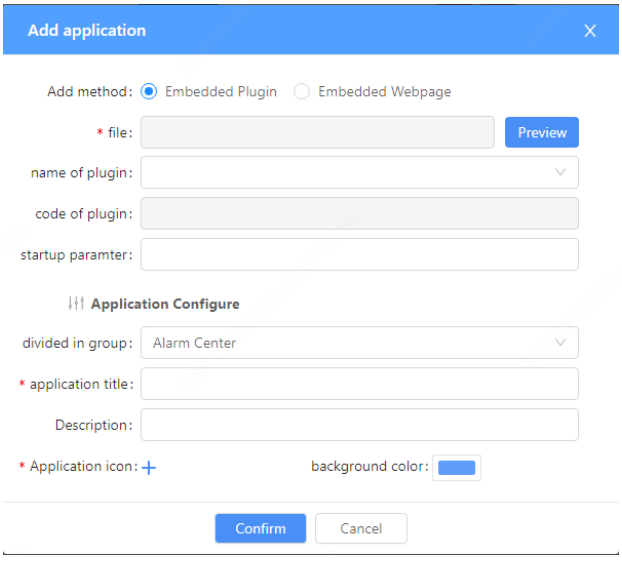



Figure 9-7 Adding a Card (Embed Webpage)

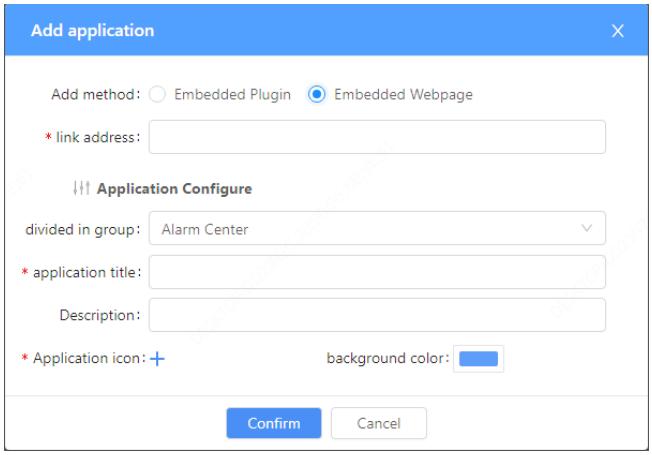



Table 9-1 Card Parameter Description

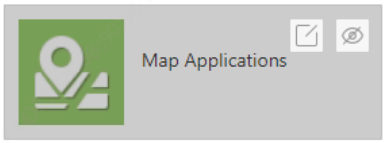
| Parameter | | Parameter Description |
|---|---|---|
| Adding Mode | | **Embed Plug-In** or **Embed Webpage** |
| Embed Plug-In | Select File | Click **Browse**, and select a local plug-in file. |
| | Plug-in Name | Select the desired plug-in from the drop-down menu. |
| | Plug-in Code | After you select a plug-in name, the corresponding plug-in code will be automatically loaded. |
| | Startup Parameter | URL of the card jump service interface |
| Embed Webpage | Link Address | Enter the link address of the desired webpage. |
| Application Configure | Group | Select the card group. |
| | Application Title | Enter the card title. |
| | Description | Describe the card service function. |
| | Application Icon | Click + to select a card icon. |
| | Background Color | Click the color bar to select the card background color. |

## 2. Modifying a card

Place the cursor on a functional card to display the configuration icons.

- Click to modify the card group, app title, brief description, and other information.
- Click to hide the card. Then, the card is not displayed on **Application Center** and the client menu bar.

Figure 9-8 Card Attributes




### 3. Adjusting the position of a card

Drag a card to the desired position in the card group or any other card group.

# 10 YunSuo

On the common toolbar, click to enter the YunSuo interface.

Figure 10-1 YunSuo Operations

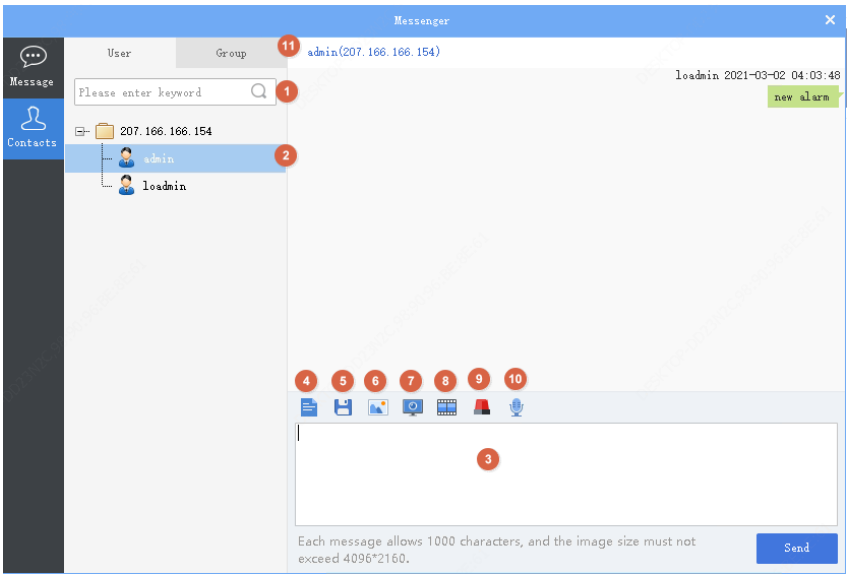
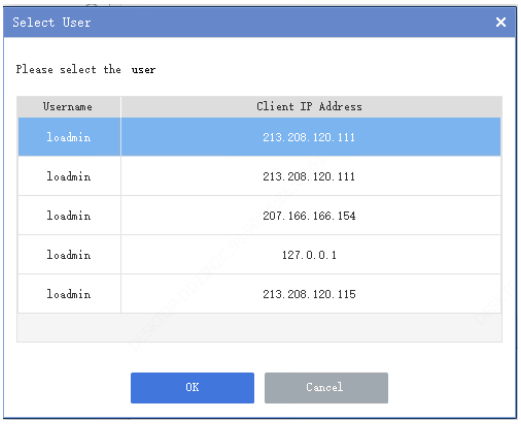
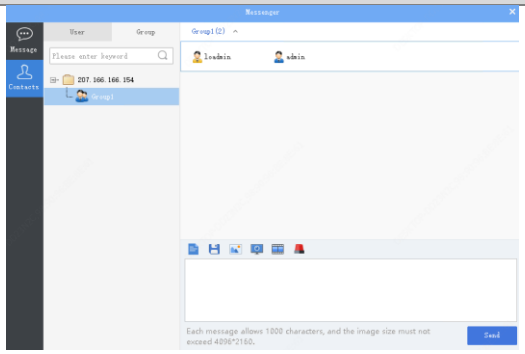
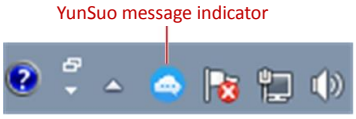



Table 10-1 Table of YunSuo Operations

| No. | Operation | Description |
|---|---|---|
| 1 | Search for a user | Enter a user name in the box, and click the search button to search for the user. |
| 2 | Initiate a conversation | Click a user to initiate a conversation. |
| 3 | Send a text message | Enter a text message in the text box and click **Send**. |
| 4 | History record | You can query history records using the following methods:<br>• Click and set the time range and user/group on the displayed **History Record** page for query.<br>• The chat window automatically saves the latest 20 chat records. You can scroll to |

| No. | Operation | Description |
|---|---|---|
| | | check them.<br>• Click to open the **Messages** page. Then, click a history chat object (user or group) to display the chat records. |
| 5 | Export chat records | Click . On the displayed page, select a save path and click **Save** to save the chat records to the local device as a WORD document. |
| 6 | Send an image | Click , select and open an image on the local computer, and click **Send**. |
| 7 | Send live video | Click , select the desired camera, and click **OK** to send the live video. |
| 8 | Send playback | Click , select the desired camera, set the playback start and end time, and click **OK** to send the playback video. |
| 9 | Send an alarm | Click , set the start and end time, and click **Query**. Then, select the alarm to be sent, and click **OK**. |
| 10 | Intercom | • Single-user intercom<br>Click , select the desired user, and click **OK**.<br>  <br>To cancel initiating intercom while waiting for the other party to answer, click **Cancel** on the displayed dialog box.<br> <br>• Mobile terminal intercom: The system supports voice intercom between a mobile app and a C/S client or between mobile apps. |

| No. | Operation | Description |
| --- | --- | --- |
| | | <br>**Note:**<br>• You need to install the cloud intercom app or command and dispatch app on the mobile phone before you can use the mobile terminal intercom function.<br>• After installing the command and dispatch app, you also need to enable cloud intercom on the TS server to implement intercom. This operation is not required for the cloud intercom app. |
| 11 | Group | On the **Group** tab, you can start group chat.<br>Group operations include:<br>• Create a group: Right-click the local domain, select **Create Group**, and enter the group code and name.<br>• Send a message: Click a group and enter the message.<br>• Ungroup: Right-click a group and select **Ungroup**. (Only the user creating the group has this permission.)<br>• Exit a group: Right-click a group and select **Exit Group**. (Users not creating the group can perform this operation.)<br>• Change a group name: Right-click a group and select **Change Group Name**. (Only the user creating the group has this permission.)<br>• Refresh: Refresh group settings. |
| 12 | Group member management | • Check group members: In the group chat interface, click the group name to expand group members. indicates the group owner (user creating the group), indicates a group admin, and indicates a common group member.<br>• Add a group member: Right-click a group and select **Add User**.<br>• Set an admin: Right-click , and select **Set as Admin**. (Only the group owner has this permission.)<br>• Cancel admin: Right-click , and select **Cancel Admin**. (Only the group owner has this permission.)<br>• Remove a user: Right-click a common group member and select **Remove Member**. (The group owner can remove all members, while an admin can remove common members.) |

| No. | Operation | Description |
| --- | --- | --- |
| | |  |
| 13 | YunSuo message indicator | After YunSuo is enabled, the computer taskbar displays the YunSuo icon. When a YunSuo message is received, the icon blinks. When the YunSuo interface is closed, the icon remains on the taskbar. When the management platform is closed, the icon disappears.<br>  |