EZStation 3.0

User Manual

Manual Version: V1.12

Thank you for choosing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

Disclaimer

CAUTION!

The default password is intended for your first login. For security, please set a strong password after your first login. A strong password shall include at least eight characters comprising at least three elements of the following four: digits, uppercase letters, lowercase letters, and special characters. Please keep the password safe and change it regularly.

- Contents of this document are subject to change without prior notice.
- Best effort has been made to verify the integrity and correctness of the contents in this document, but no statement, information, or recommendation in this manual shall constitute formal guarantee of any kind, expressed or implied. We shall not be held responsible for any technical or typographical errors in this manual.
- The illustrations in this manual are for reference only.
- Due to uncertainties such as physical environment, discrepancy may exist between the actual values and reference values provided in this manual. The ultimate right to interpretation resides in our company.

Conventions

Convention	Description
Boldface font	Commands, keywords, parameters and GUI elements such as window, tab, dialog box, menu, button, etc.
Italic font	Variables for which you supply values.
>	Separate a series of menu items, for example, **Device Management** > **Add Device**.

Contents

1 Introduction 1

2 System Requirements 1

3 Installation and Startup 2

4 Device Management 3

Encoding Device 3

Add an Encoding Device 3

Configure an Encoding Device 5

Group Management 6

Decoding Device 7

Cloud Device 7

Network Keyboard 9

5 Live View 11

Live View 11

Play Live Video 11

Play Live Video by View 12

Live View Control 14

Live View Toolbar 14

Live View Window Toolbar 15

Live View Shortcut Menu 16

PTZ Control 16

PTZ Control Panel 16

Preset 18

Preset Patrol 18

Recorded Patrol 19

Fisheye Control 20

Sequence Display 20

Sequence Resource 20

Sequence View 21

6 Recording and Playback 23

Configure a Recording Schedule 23

Configure a 24/7 Recording Schedule 24

Customize a Recording Schedule 24

Record Video Manually 25

Playback 26

Play Device Recordings 26

Play Local Recording and Image 27

Playback Control 27
Recording Download 30
Download Recordings 30
Manage Download Tasks 30
7 Video Wall 30
Add a Video Wall 31
Video Wall Operations 32
Play Video on Video Wall 32
Output Audio 33
Play Sequence Resource 33
Other Video Wall Operations 36
Screen Control 38
Configure Serial Port and Protocol 38
Turn On or Off the Screen Automatically at a Set Time 39
Turn On or Off the Screen Manually 39
Turn Off the Screen with Delay 39
8 E-map 39
Map Configuration 39
Map Operations 40
Locate a Hot Spot or Hot Zone on the Map 40
View Live Video from a Hot Spot 41
Handle Alarms 41
View Hot Zone 42
9 Audio 42
Audio 43
Two-Way Audio 43
Two-Way Audio with a Camera 43
Two-Way Audio with an NVR 44
Broadcast 44
10 Alarm Configuration 45
Configure Alarm-Triggered Action 46
View Alarm Records 47
Latest Alarm 47
History Alarm 49
11 Operation Logs 50
12 Client Configuration 51
13 User Management 53
14 Appendix 53
Add an Encoding Device by EZDDNS 53
Auxiliary Monitor Recovery 54

Multi-Window Display ····· 54

1 Introduction

EZStation 3.0 is a video management software. It provides video surveillance services including live view, playback, device management, recording schedule, alarm configuration, video wall, and e-map. The software is easy to deploy and operate, suitable for small and medium-size applications such as for super market, parking lot and residential area. For more details, see datasheet.

NOTE!

- The software has different versions and shall be installed on a compatible operating system. Please refer to the datasheet for details.
- Functions may vary depending on factors including but not limited to software version, device and version, and how the device is managed by the software (i.e., directly connected camera or NVR connected camera).
- This manual is not intended for a specific software version. Some functions or features described in this manual may be available to certain version(s) only.
- Directly connected camera: Camera that is directly managed by the software (in comparison with NVR connected camera).
- NVR connected camera: Camera that is managed by the software via an NVR (in comparison with directly connected camera).
- IPC: IPC, IP camera and camera refer to the same thing in this manual.
- PC: The computer that runs the software, also mentioned in this manual as the client.

2 System Requirements

The PC that hosts the software shall meet performance requirements. The requirements may vary, depending on how you use the software. For example, live view at high resolution in multiple windows requires higher system performance.

Software Version	System Requirements
64-bit	OS: Microsoft Windows 7/8/10 (64-bit) CPU: Intel Core i5 3.1 GHz or higher Memory: 4 GB or higher
32-bit	OS: Microsoft Windows 7/8/10 (32-bit or 64-bit) CPU: Intel Pentium IV 3.0 GHZ or higher (4 Core, 3.0 GHz recommended) Memory: 2 GB or higher Note: The 64-bit Windows shall be able to host 32-bit software.

Software Version	System Requirements
Mac	OS: Mac OS 10.11 or higher CPU: Intel Core i5 3.1 GHz or higher Memory: 4 GB or higher

NOTE!

The 64-bit OS and software are recommended. Live view and playback consumes RAM, and the 32-bit software has a relatively small RAM. When RAM is running low, the software will be unable to play more channels of live or recorded videos, and it will display a message indicating insufficient RAM.

3 Installation and Startup

1. Double-click the .exe file, and follow the wizard to complete the installation.
2. When installation is complete, double-click the shortcut icon to start the software.
3. Log in with the default username/password (**admin/123456)**.

NOTE!

- The default password is intended only for the first login. For security, please set a strong password when logged in (see User Management). A strong password shall include at least eight characters comprising at least three elements of the following four: digits, uppercase letters, lowercase letters, and special characters. Please keep the password safe and change it regularly.
- The password for admin (123456 or others) does not change after an upgrade or a reinstall of the software.

You see the main page when logged in. The main page includes the control panel, some functional buttons and the system menu:

- Click **Menu** in the top left corner to open the system menu.
- The control panel includes the **Common** and **Basic** areas. Click an icon to access the corresponding module. You may drag an icon to change its position with another icon.
- The buttons in the top right corner are used to switch account, lock the GUI, or open user manual.
- Three buttons in the bottom left corner.

Icon	Description
	View realtime alarms, turn on/off alarm sound, enable/disable alarm-triggered live video.

Icon	Description
	Manage download tasks
	Download recording

4 Device Management

Devices include encoding devices, decoding devices, cloud devices and network keyboard. The software supports up to 64 local devices and 64 cloud devices, up to 512 local channels and 512 cloud channels.

Encoding Device

Add an Encoding Device

Encoding devices include IPC (also referred to as IP camera, camera, or video channel in this manual), Network Video Recorder (NVR) and hybrid NVR.



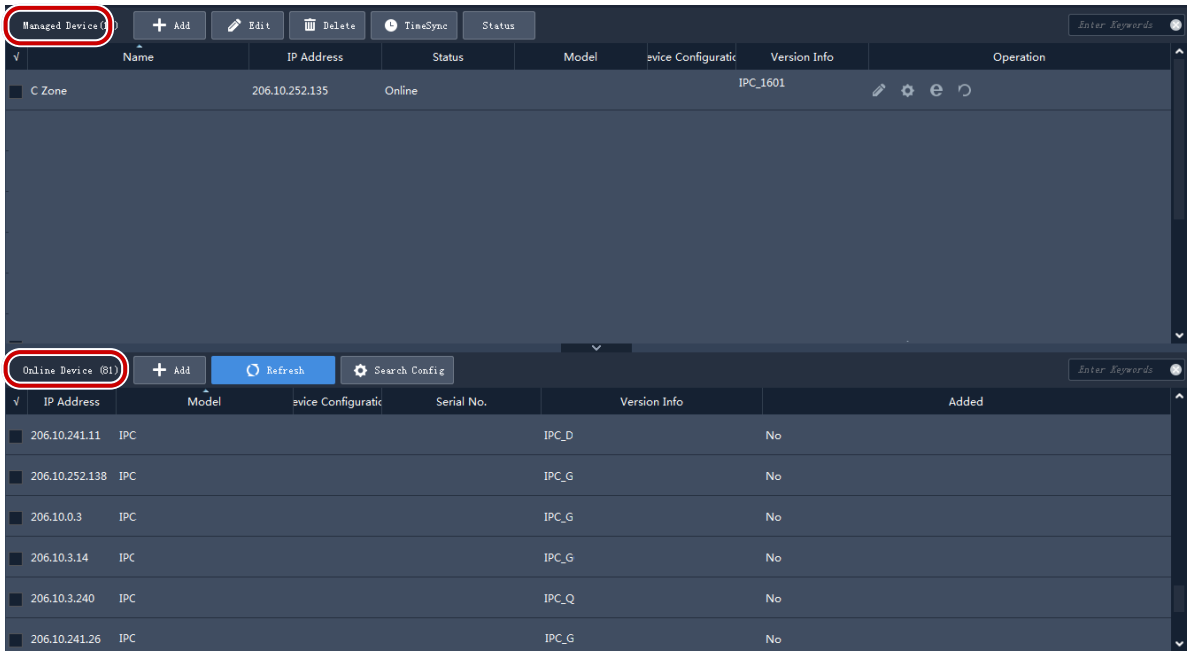
NOTE!

- Managing a device with different management software programs may cause unexpected problems.
- Please always add devices as admin (enter username "admin").

Click **Device Management** on the control panel and then follow the steps:

1. Click **Device** > **Encoding Device**. The page is divided into two areas with two lists:

- **Online Device** list: The software searches online devices and refreshes automatically. Note: The discovered devices are not added yet, and you need to add them manually (see step 2).
- **Managed Device** list: lists devices that have been added to the software.



2. On the **Online Device** list, select device(s) and then click **Add**. You may add devices to different groups.

- The software uses the default username (admin/123456) to add a device. If the password of a device has been changed and is not 123456, you need to change the password in step 3.
- In the **Online Device** list, you may:
  - Click **Refresh** to refresh the list.
  - Click **Search Config** to specify a network segment to search.
  - Click  to select/deselect all the listed devices.
  - Right-click a device to visit its Web interface.

3. On the **Managed Device** list, check the status of the added devices and do the following:

To	How To
Add device	1) Click **Add**. 2) Choose a mode. The device username (admin) and password are always required, regardless of the mode you choose. • IP/Domain: Add a device with a known IP address. • IP Segment: Add multiple devices with continuous IP addresses. • EZDDNS: DDNS must be enabled on the device and port mapping must be completed beforehand. See Appendix for details. 3) Click **Add** to add to the default group, or **Add to Group** to add to a specified group.
Edit Device	Select device(s) and then click **Edit**. This button is especially useful when you want to set the same username and password for adding multiple devices.
Delete device	Select device(s) and then click **Delete**. The deleted online devices are still on the **Online Device** list.

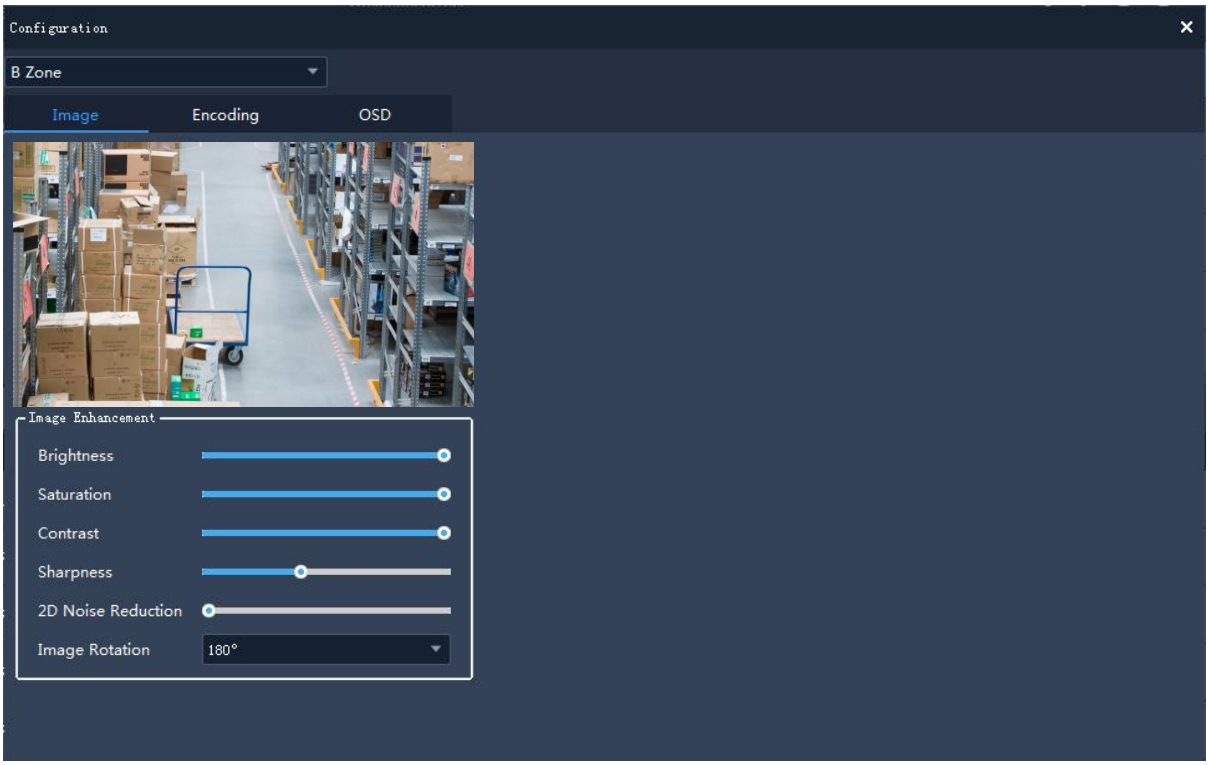
Sync time	Click **TimeSync** to sync your PC's system time to the selected devices.
View device status	Click **Status** to view device online/offline status, recording status, and disk status. You may refresh manually or set an interval to refresh automatically.
Use buttons in the **Operation** column	• : Edit device name, IP address, username/password. If the device status is **Offline(incorrect username or password)**, click this button and change the password to the actual password. You may also double-click to edit a device. • : Configure image, encoding and OSD settings of a device (see Configure an Encoding Device). • : Visit the Web interface of the device. • : Restart device.

Configure an Encoding Device

On the **Managed Device** list, click  for an online device to configure image, encoding and OSD settings without opening the Web interface of the device.

NOTE!

- This function requires device support and it may be unavailable if the device version is too low.
- The configurations displayed may vary with device version and how the device is managed.
- For detailed explanations of image, encoding and OSD parameters, please see device user manual.
- OSD configuration is not available on Mac OS system.



Note:

- The changed image and OSD settings take effect immediately. Encoding settings must be saved first before they take effect.
- For an NVR, you need to select a camera from the drop-down list.
- When configuring OSD, you can double-click the image to display in full screen; the blue boxes (Area1, 2 …) appear only in the preview and do not display on the live view image. You can drag an OSD to relocate it.

Group Management

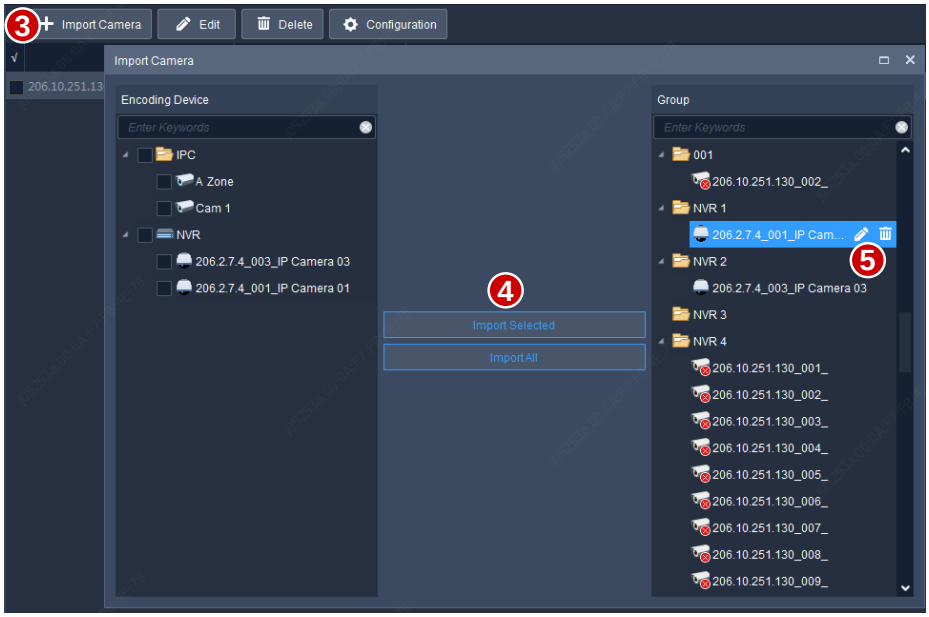
A default group is created automatically when the software is installed. You can create groups and manage cameras in different groups.

When an NVR is added, a group with the same name of the NVR is created.

1. Add a group.



2. Import cameras to the group.



- To import cameras: click the group on the right, select cameras on the left, and then click **Import Selected**. To import all cameras, click **Import All**.
- To remove a camera from a group, place the mouse pointer on the camera and click **Delete**.
- To rename a camera in a group, place the mouse pointer on the camera and click **Edit**.

Decoding Device

You need to add a decoding device before you can use the video wall function. The steps are similar to adding an encoding device. See Add an Encoding Device for reference.

Note: Add a decoding device as admin.

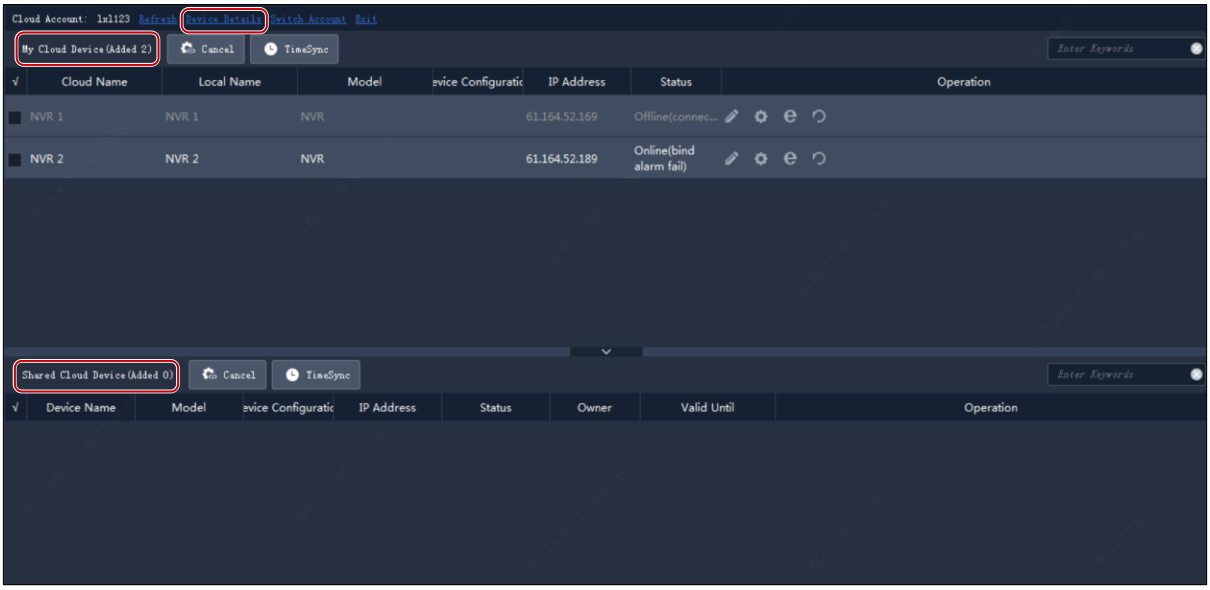
Cloud Device

Note:

The software can manage up to 64 cloud devices simultaneously, including my cloud devices and devices shared from other cloud accounts. If the total number of devices you want to manage exceeds the limit, click **Device Details** and use the **Add Manage** or **Cancel** button to adjust the cloud devices.

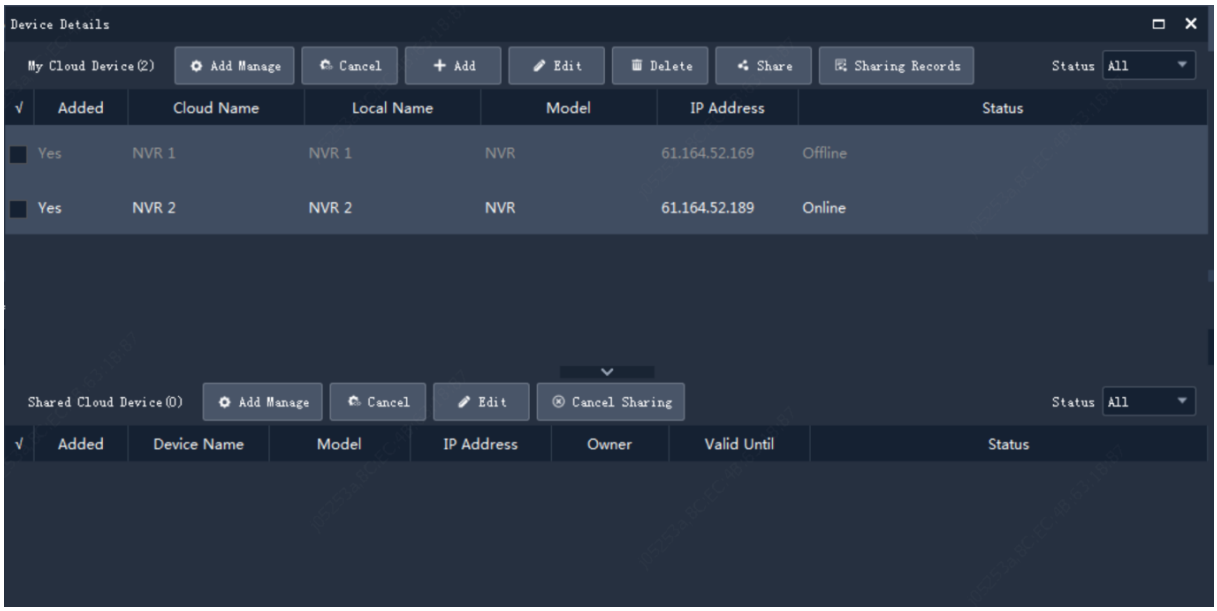
Click **Device Management** on the control panel and then follow the steps.

1. Click **Device** > **Cloud Device**.
2. If you already have a cloud account, proceed to step 3; otherwise, click **Register** to sign up.
3. Enter your username and password for your cloud account, and then click **Login**. Devices under your cloud account are listed, including your cloud devices (under **My Cloud Device**) and devices shared from other cloud accounts (under **Shared Cloud Device**).



Tip:

- Use the buttons under **Operation** to edit device name, configure image, encoding and OSD settings, open the Web interface of the device, or restart a device.
- Click **Cancel** to cancel the management of a device without deleting the device from the cloud account.
- Click **TimeSync** to keep a device synchronized with your PC's system time.
- Click **Device Details** to add, edit, delete cloud devices, to share or cancel sharing, to manage or cancel management.



Tips:

- Click **Add** to add device(s) to your cloud account (the register code required is displayed in the Web interface of the device; see device user manual for details); click **Delete** to delete device(s) from your cloud account.

- Click **Add Manage** to add device(s) to the software; click **Cancel** to cancel management without deleting the device from the cloud account.
- Double-click a device or click **Edit** to change the device's name. To sync the new name to cloud, select **Sync to Cloud**.
- Click **Share** to share device(s) with another cloud account. Set a sharing period and permissions as needed. The permissions are pre-configured on the device.
- Click **Sharing Records** to view sharing history or cancel sharing(s) with other cloud accounts.
- Click **Cancel Sharing** to cancel sharing(s) from other cloud accounts.

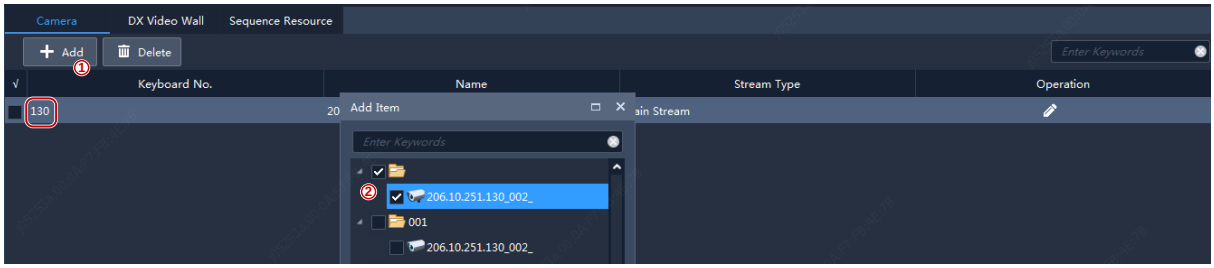
Network Keyboard

A network keyboard can be used to control live video, playback, PTZ camera and sequence resource on a video wall.

The following steps describe how to play live video on a video wall. Before you start, refer to the keyboard user manual to connect the keyboard to your PC. And then, click **Device Management** on the control panel and follow the steps.

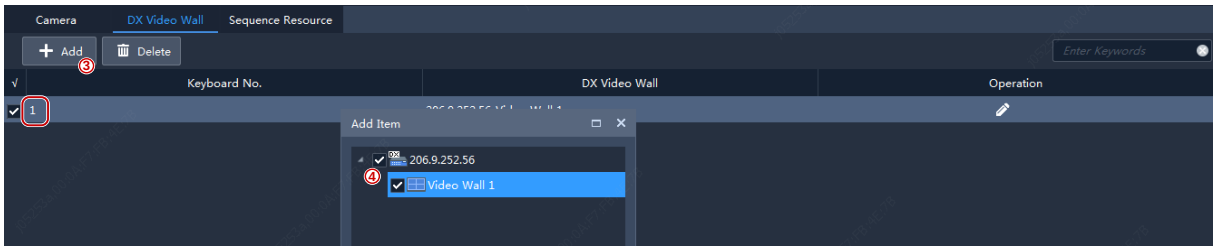
1. Add a camera. On the **Camera** tab, click **Add**, select the camera to play on the video wall and click **OK**. The camera appears on the list.

Tip: You will use the number (e.g., **130**) later when operating the keyboard.



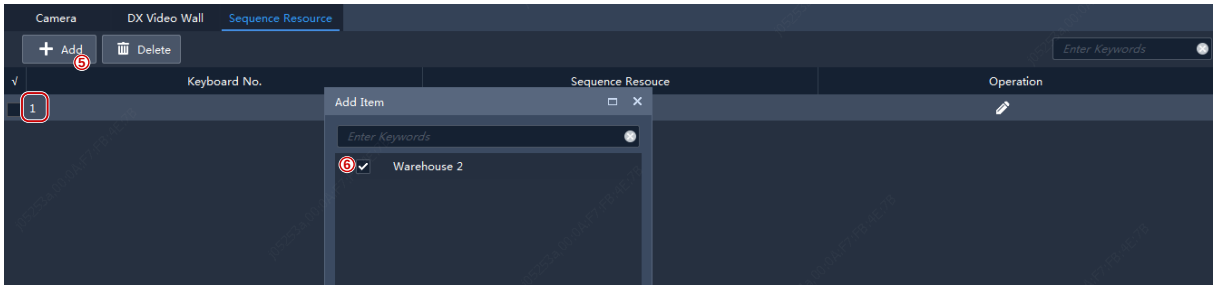
2. Add a video wall. On the **DX Video Wall** tab, click **Add**, select a video wall and then click **OK**. You need to configure video wall first. See Video Wall for details.

Tip: You will use the number (e.g., **1**) when operating the keyboard.



3. Add a sequence resource. On the **Sequence Resource** tab, click **Add**, select a sequence resource and then click **OK**. You need to configure sequence resource first. See Sequence Resource for details.

Tip: You will use the number (e.g., **1**) when operating the keyboard.



4. The following operations are on the network keyboard.

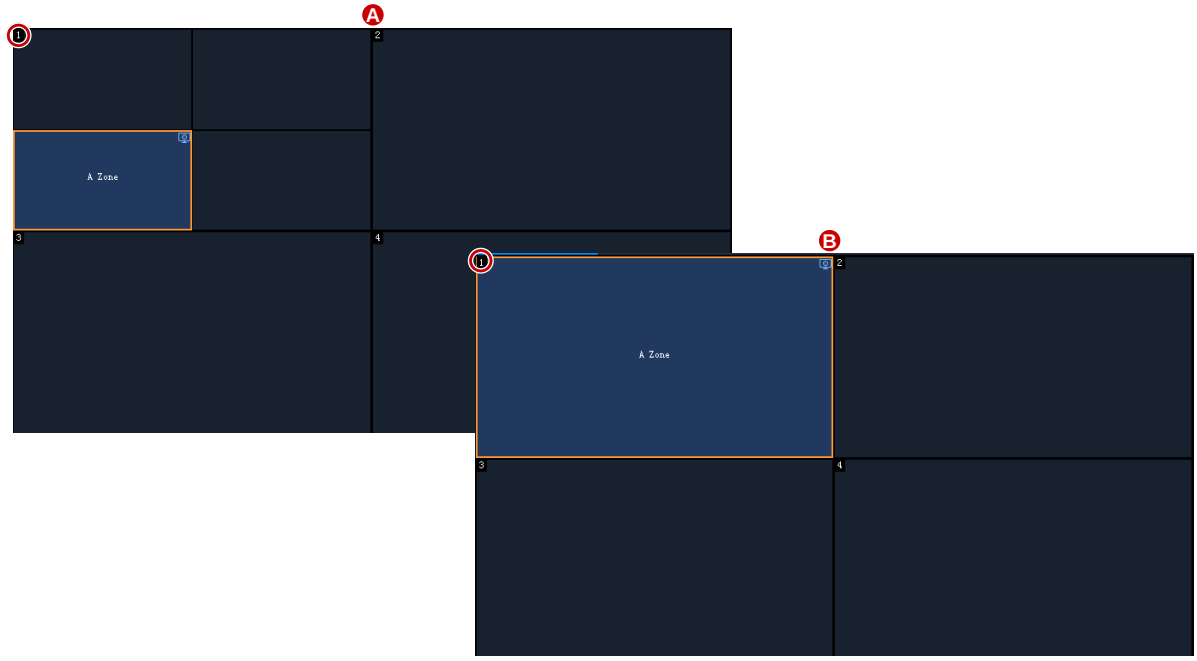
a. Enter the keyboard number in step 2 (e.g., **1**), then press **AUX4**.

b. Enter the window number in the top left corner (which is **1** in both A and B), then press **MON**.

c. Enter the split-screen number, then press **WIN**. If the window is split (as in A), enter the split-screen number **3**; if the window is not split (as in B), enter **1**. This step is only required for playing live video on video wall. For playing sequence resource, skip this step.

d. Select the camera or sequence resource to play on the video wall.

- Live video: Enter the keyboard number in step 1 (e.g., **130**), then press **CAM**.
- Sequence resource: Enter the keyboard number in step 3 (e.g., 1), then press **CAM_G**.



5. After live video starts on the video wall, you can:

- Use the joystick to control the rotation of a PTZ camera, and use the Zoom and Focus buttons to control the zoom and focus.
- Use the button to switch live video to recording.

See keyboard user manual for more information.

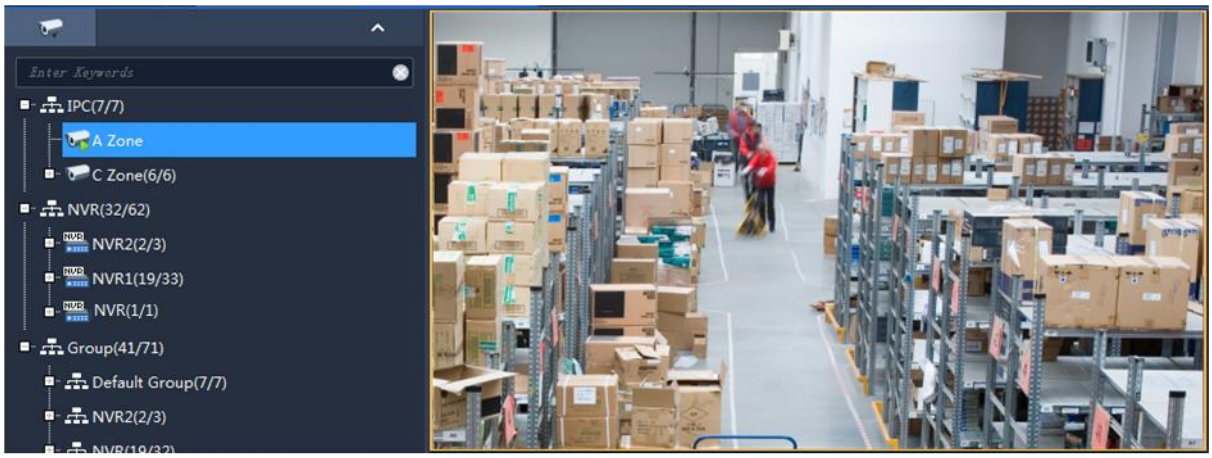
5 Live View

Live View

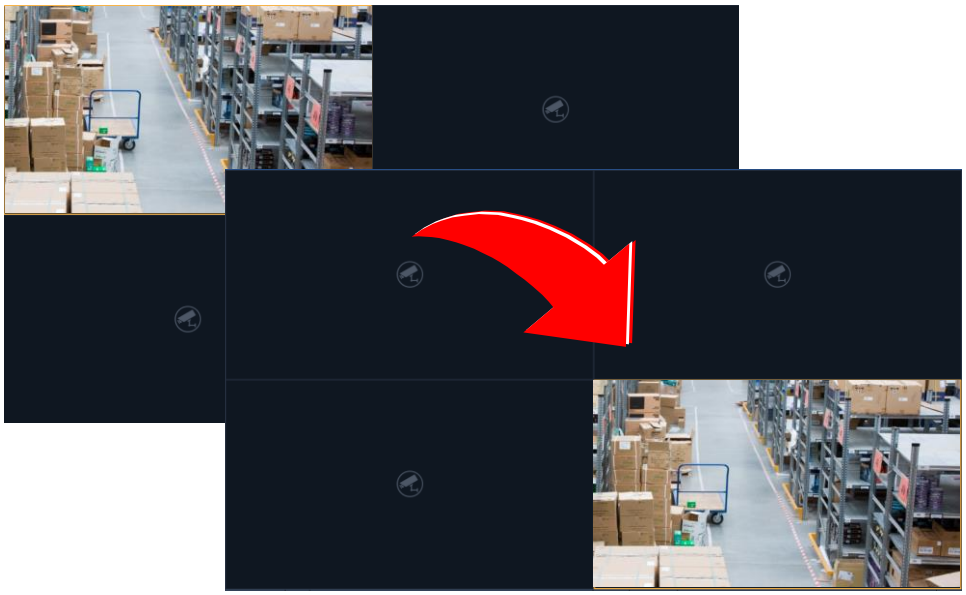
Click **Live View** on the control panel to view live video from cameras.

Play Live Video

1. On the **Camera** tab, double-click a camera or drag it to a window to start live video.



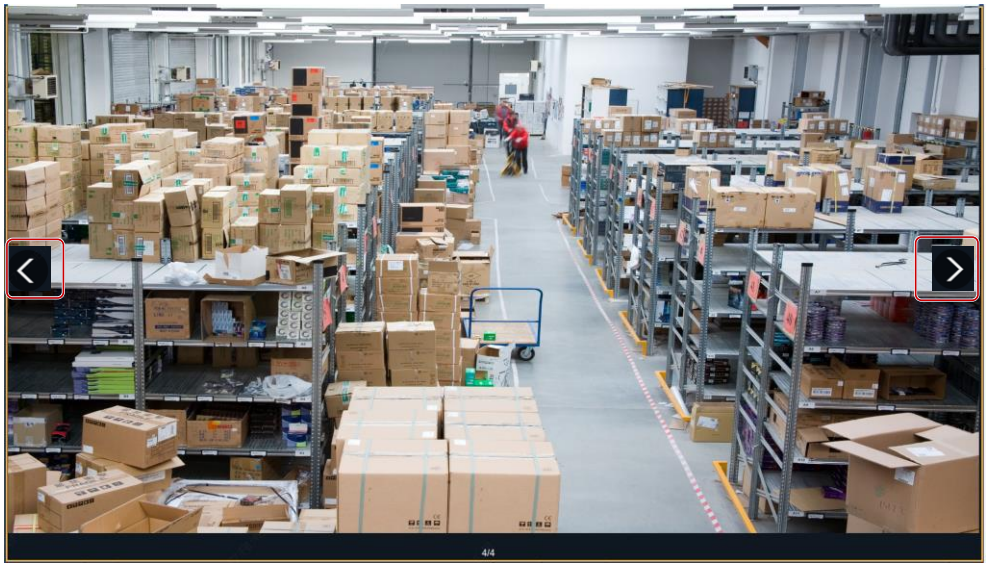
2. Right-click a camera to choose a stream type or rename the camera.
3. You may drag the image to play it in another window.



4. Double-click a window to maximize it, and double-click again to restore.



After maximizing a window, move your mouse to the left or right side on the live view page, and then click  or  to switch to the live video of previous or next channel.



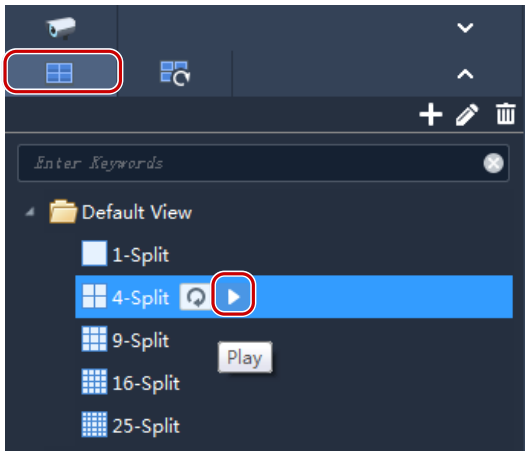
5. Use the live view toolbar or window toolbar during live view.

Play Live Video by View

By default view

On the **View** tab, double-click a default view or click **Play** to start live video from the corresponding number of cameras on the camera list: 4 cameras for 4-split view, 9 for 9-split view, 16 for 16-split view, and 25 for 25-split view.

Take **4-Split** as an example.



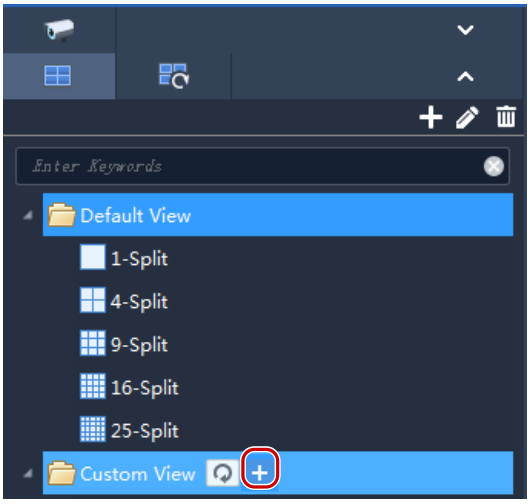
Live video from the first 4 cameras on the camera list will be played, illustrated as below.

Cam 1	Cam 2
Cam 3	Cam 4

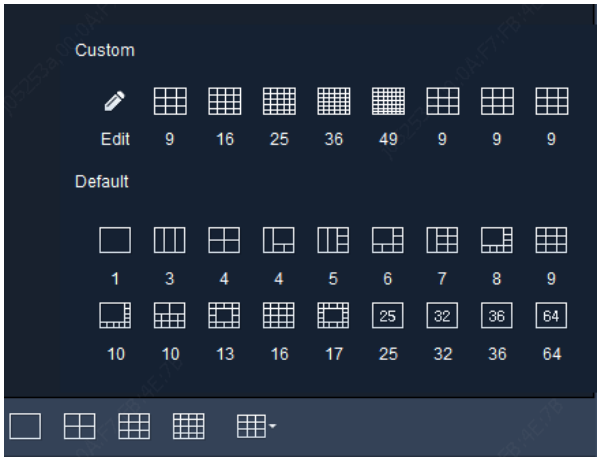
By custom view

Play live video from specified cameras by a custom view.

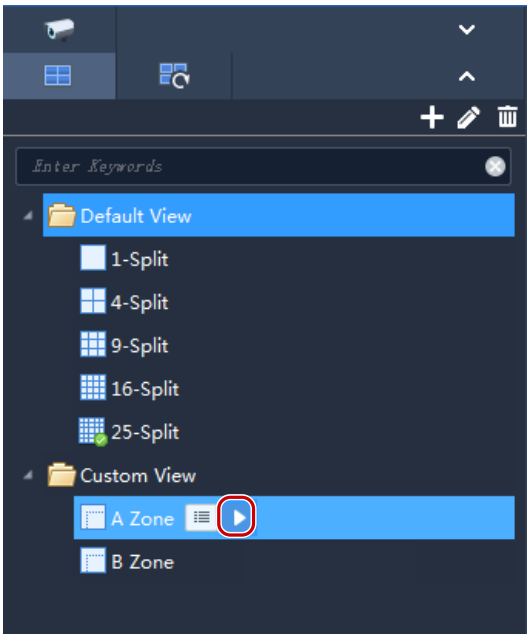
1. On the **View** tab, click the **Add View** button to create a view.



2. Select a window layout. Click  to edit a custom layout, use **Combine** or **Undo** when editing.



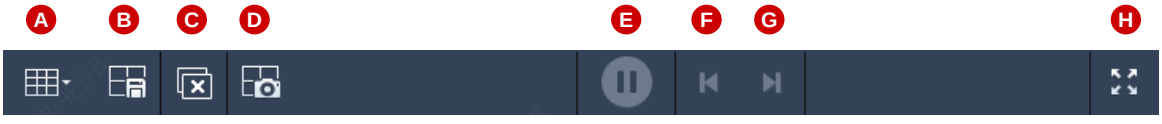
3. Drag cameras or sequence resources to the intended windows one by one.
4. Click **OK**.
5. Double-click the custom view or click **Play** to start live video from cameras (specified in step 3) in the corresponding windows in the layout (set in step 2).



Live View Control

Live View Toolbar

The live view toolbar is at the bottom of the live view window.



Button	Description
A	Set window layout.

B	Save the current view directly or as another view.
C	Close all windows playing video.
D	Snapshot all.
E	Pause/resume sequence display
F/G	Play the previous/next group or view in sequence display.
H	Switch to full screen mode. Press **Esc** to exit.

Live View Window Toolbar

The window toolbar appears when you place the mouse pointer on a live view window. The toolbar is effective only to the current window.



Button	Description
A	Take a snapshot. The snapshot format and storage path are configurable in Client Configuration.
B	Records live video playing in current window to the PC. The video format and storage path are configurable in Client Configuration.
C	Digital zoom. When enabled, drag the mouse to draw an area on the image to zoom in on, and use the scroll wheel to zoom in or out.
D	Adjusts the speaker volume or mute it for the PC.
E	Two-way audio.
F	Starts instant playback. Plays back the live video playing in the current window for the last 5 minutes and 30 seconds. The playback pauses at the end, and you need to start live video manually.
G	Bit rate and resolution of the current video.

NOTE!

- The toolbar shows  when the camera is a PTZ camera. Click this button to open the PTZ control panel.
- The toolbar shows  when the camera is a fisheye camera. Click this button to open the fisheye control panel.

Live View Shortcut Menu

A shortcut menu appears when you right-click a live view window. Some items on the menu provide same functions as the live view toolbar and window toolbar. Some are described in the table below.

Parameter	Description
Stream Type	Select a stream type for the current window: auto, main, sub and third stream (options may vary with device). ***Note**:* • *Sub Stream and Third Stream are not displayed if not available.* • *Stream type selection is not allowed in sequence display.*
Manual Alarm	Trigger an alarm manually. ***Note**:* *It is recommended that you first configure the action(s) to trigger (see Configure Alarm-Triggered Action). A click of this button will generate an alarm and trigger the configured action(s).*
Camera Info	Display frame rate, resolution, bit rate, video compression format, and packet loss rate for the window.
Play Local Recording	Open the folder containing local recordings on your PC and play in the current window.

NOTE!

The default stream type is auto.

- For local devices, the client chooses a stream type according to the screen layout.
  - *4 windows or less: Main stream*
  - *4 to 16 windows(16 included): Sub stream*
  - *More than 16 windows: Third stream*
- For cloud devices, the default is third stream.

PTZ Control

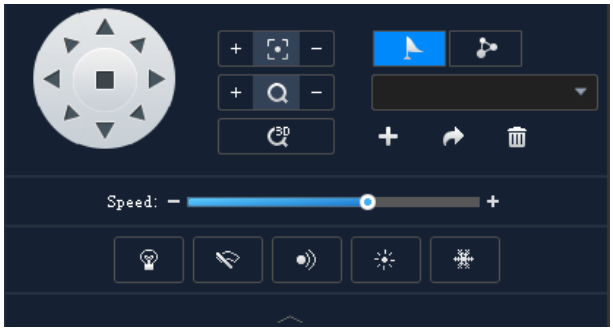
Control the rotation direction and speed, pan/tilt/zoom, focus of a PTZ camera. The software also provides other functions including 3D positioning, preset, and patrol functions.

NOTE!

PTZ control is available to PTZ cameras only and it may vary depending on the camera's capability and the protocol it supports. For example, some manufacturers reserve certain presets for special use such as wiper or menu. Please refer to camera specifications before use.

PTZ Control Panel

Click  on the live view window toolbar to open the PTZ control panel, which can fold and expand.



Parameter	Description
	Control rotation direction or stop rotation. ***Tip:*** • *You may also use shortcut PTZ control to rotate the camera: place the mouse pointer on the live view window, and when the shape changes to like ▶, click and hold the left button to rotate the camera.* • *You can enable or disable **Shortcut PTZ Control** under **Client Configuration** > **Audio & Video*** • *Shortcut PTZ control is not effective when 3D positioning is enabled.*
	Adjust focus and zoom.
	• Control the light. • Control the wiper. • Control the IR. • Control the heater. • Control the snow removal function.
	Adjust rotation speed.
	Click the tab to enable/disable 3D positioning. With 3D positioning enabled: • Click somewhere on the image, and the camera automatically rotates toward the direction. • Drag the mouse from top to bottom to zoom in on the selected area. Drag from bottom to top to zoom out.
	Preset tab.
	Patrol tab.

Preset

Add a preset to save the status of a PTZ camera. When needed, you can rotate the camera to the previously set position with one click of the button. Presets are also used to set a preset patrol (see Preset Patrol).

1. Rotate the camera to the desired direction.

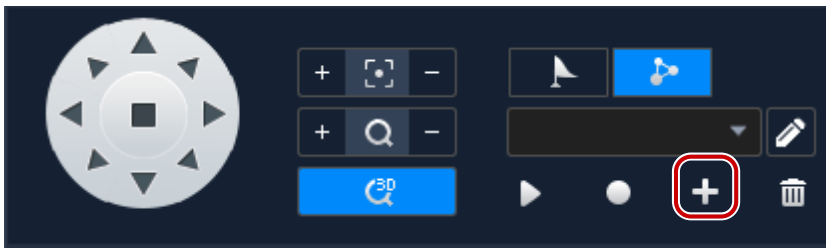


2. On the **Preset** tab, click **Add Preset**. Enter a preset number that is not in use; otherwise, the existing preset will be replaced by the new preset.

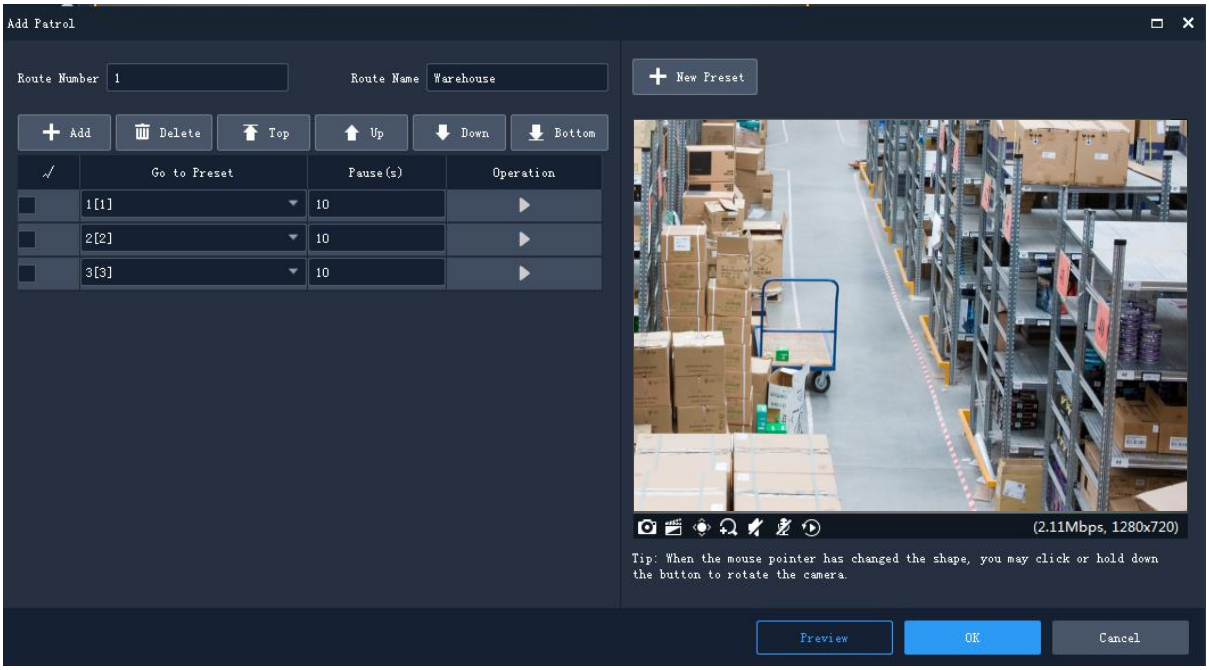
Preset Patrol

The camera patrols along multiple presets in the set order and stays at each preset for certain length of time. Because a preset patrol route consists of presets, you need to add all the needed presets first (see Preset).

1. On the **Patrol** tab, click **Set Patrol**.



2. Complete settings.



3. Click **Add**, select a preset, and set the length of time that the camera stays at this position. Repeat this step to all the necessary presets.
4. Use the **Set Top**, **Up**, **Down**, **Set Bottom** buttons to adjust the order in which the camera patrols.
5. Click **Save**.



6. The patrol route appears in the patrol route list. Click **Start Patrol**, and the camera will patrol along the presets that you have set.

Recorded Patrol

The user operates the camera, and meanwhile the software records the movement track and status of the camera and saves it as a patrol route. Currently one recorded patrol route is supported.



1. Click **Start Recording Patrol Route**.

2. Use the directional buttons or shortcut PTZ control to rotate the camera to desired directions and stay for the intended length of time. Adjust zoom and focus as needed.
3. Click **Stop Recording Patrol Route**. The recorded patrol route appears in the patrol route list (by the name 0[Recorded Patrol]).
4. Click **Start Patrol**. The camera will repeat the actions you performed during the patrol.

Fisheye Control

Fisheye control, set mount mode and display mode to get desired images:

- Mount: Ceiling, Wall, Desktop
- Display Mode: Original Image, 360° Panoramic+1PTZ, 180° Panoramic, Fisheye+3PTZ, Fisheye+4PTZ, 360° Panoramic+6PTZ, Fisheye+8PTZ, Panoramic, Panoramic+3PTZ, Panoramic+4PTZ, Panoramic+8PTZ (clicking Original Image switches from dewarping mode to normal mode).

NOTE!

- The fisheye control button is available to fisheye cameras only.
- In dewarping mode, you may click a PTZ window and then use the mouse to drag the image, or zoom in/out using the scroll wheel; or click a panoramic window and then drag, zoom in or out on the demarcation area.
- Digital zoom is disabled in dewarping mode, and the digital zoom button is hidden. If you switch to dewarping mode when digital zoom is enabled, digital zoom will be disabled automatically, and the image restores its original size.
- Dewarping mode is not available when resolution is below than D1, and the fisheye control button is grayed out.
- Fisheye control is not available on Mac OS system.

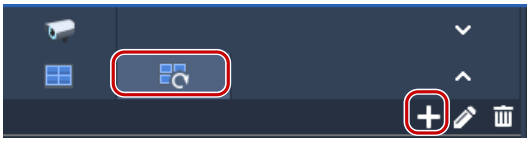
Sequence Display

Sequence Resource

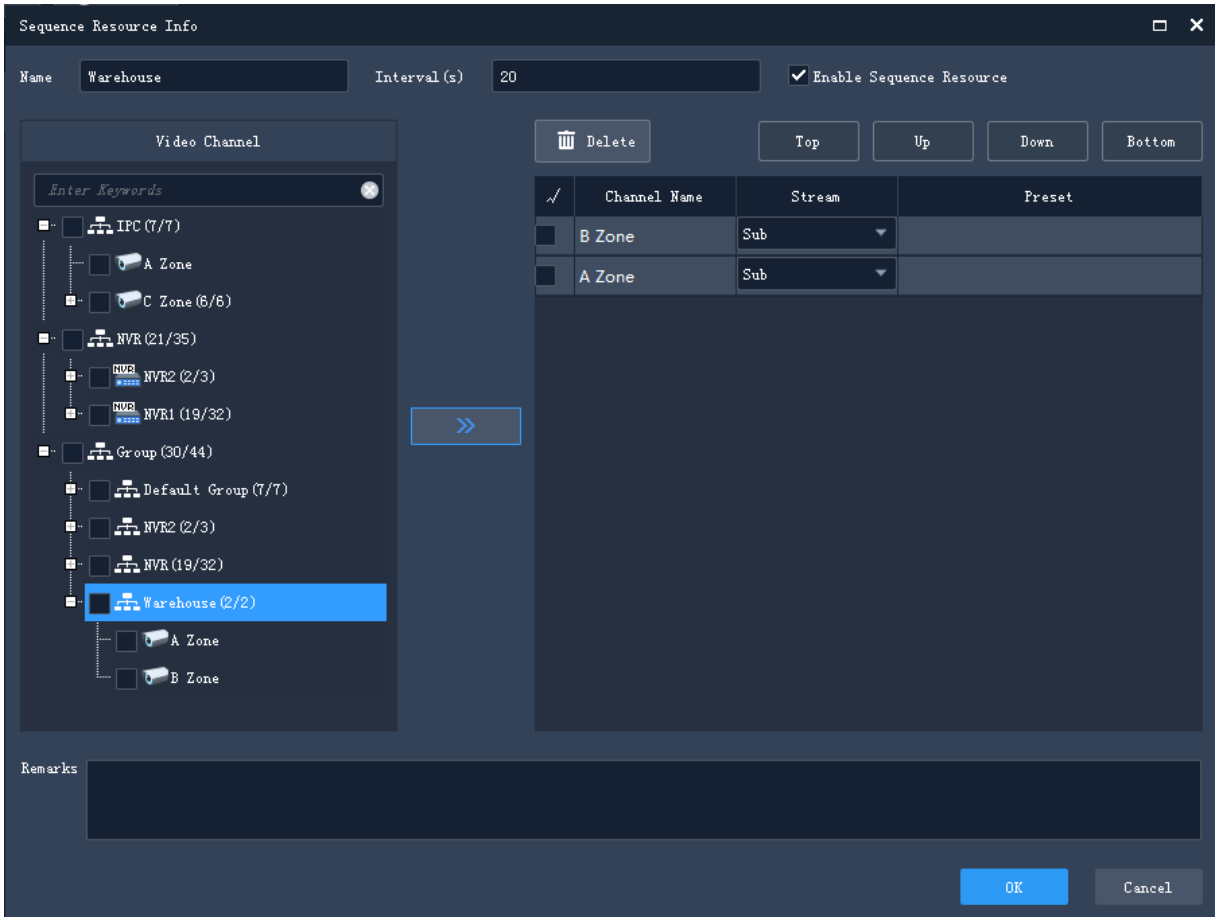
Play live video from cameras in a group one by one in a window. First, you need to create a sequence resource.

Create a sequence resource

1. On the **Live View** page, click the **Sequence Resource** tab, and then click the **Add** button. You may also click **Sequence Resource** on the control panel to add a sequence resource.



2. Complete settings in the window, including sequence resource name, sequence interval, video channels to include, stream type, preset (PTZ camera). Click the **Top**, **Up**, **Down** and **Bottom** buttons to adjust the sequence as needed.



3. Click **OK**.

Play a sequence resource

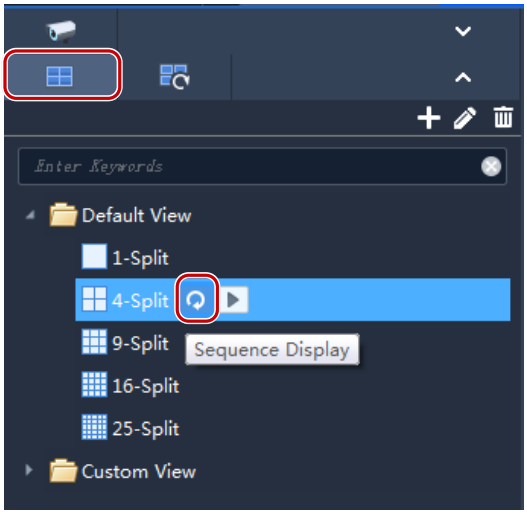
Double-click the sequence resource on the **Sequence Resource** tab to start sequence display.

Sequence View

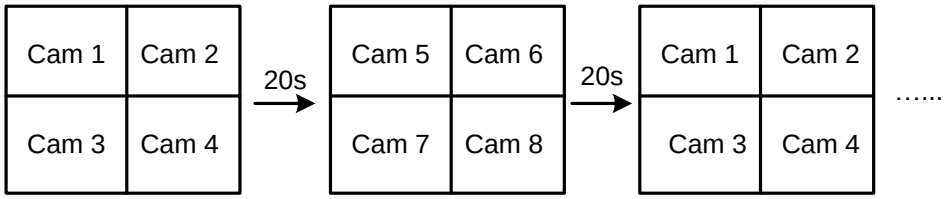
Sequence a default view

Play live video from cameras on the camera list in sequence based on a default view.

1. On the **View** tab, click the **Sequence Display** button for a split view. Take **4-Split** view for example.



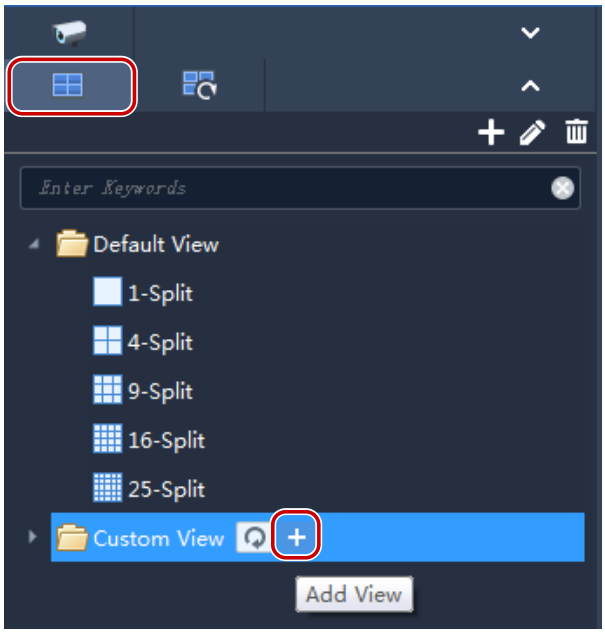
2. Set sequence display interval.
3. Assume there are eight cameras, and the sequence interval is set to 20 seconds. Then the sequence is illustrated as shown below.



Sequence custom views

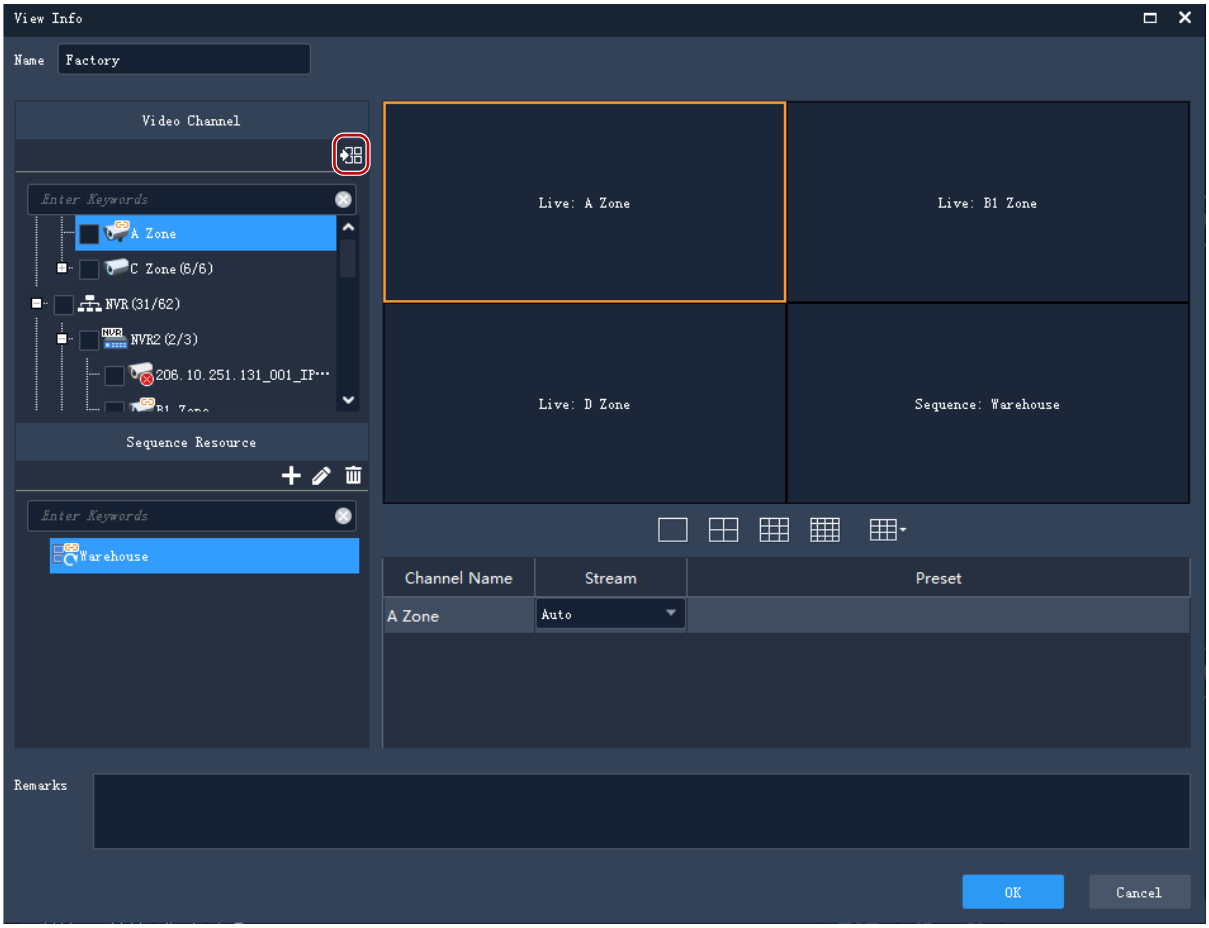
Play live video by custom views in sequence.

1. To create a custom view, click **Add View**.

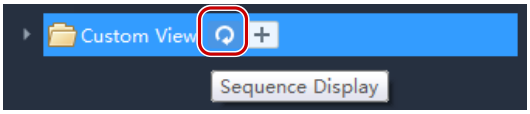


2. Complete the settings in the window, including the view name, window layout, binding between the cameras/sequence resources and the windows (by dragging the cameras/sequence

resources to the windows or by clicking **Batch Add**), stream type (for cameras only) and preset (for PTZ cameras only). Click **OK** when you complete the settings.



3. Repeat the above steps to create all the custom views you need.
4. Click the **Sequence Display** button to sequence the custom views you have created.



6 Recording and Playback

Record videos and search for playback or download.

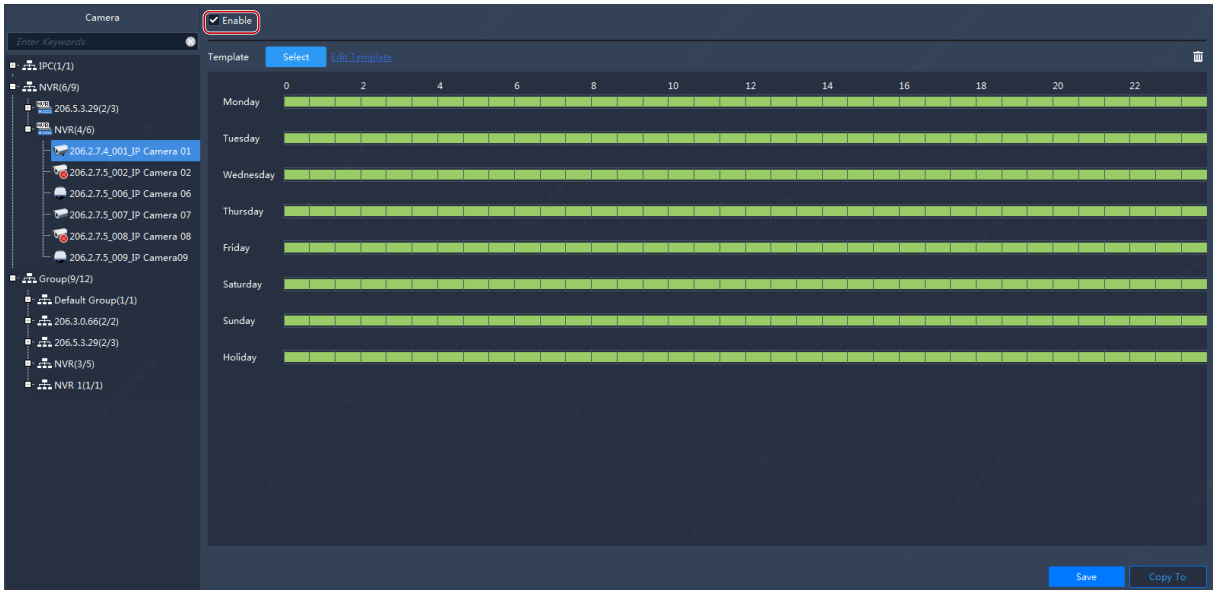
Configure a Recording Schedule

Configure a recording schedule for an NVR to record video automatically. This function is available to NVR-connected cameras only. The recorded videos are saved on the NVR, not on the PC.

Click **Recording Schedule** on the control panel and then follow the steps.

Configure a 24/7 Recording Schedule

Use the template to configure a 24/7 recording schedule.

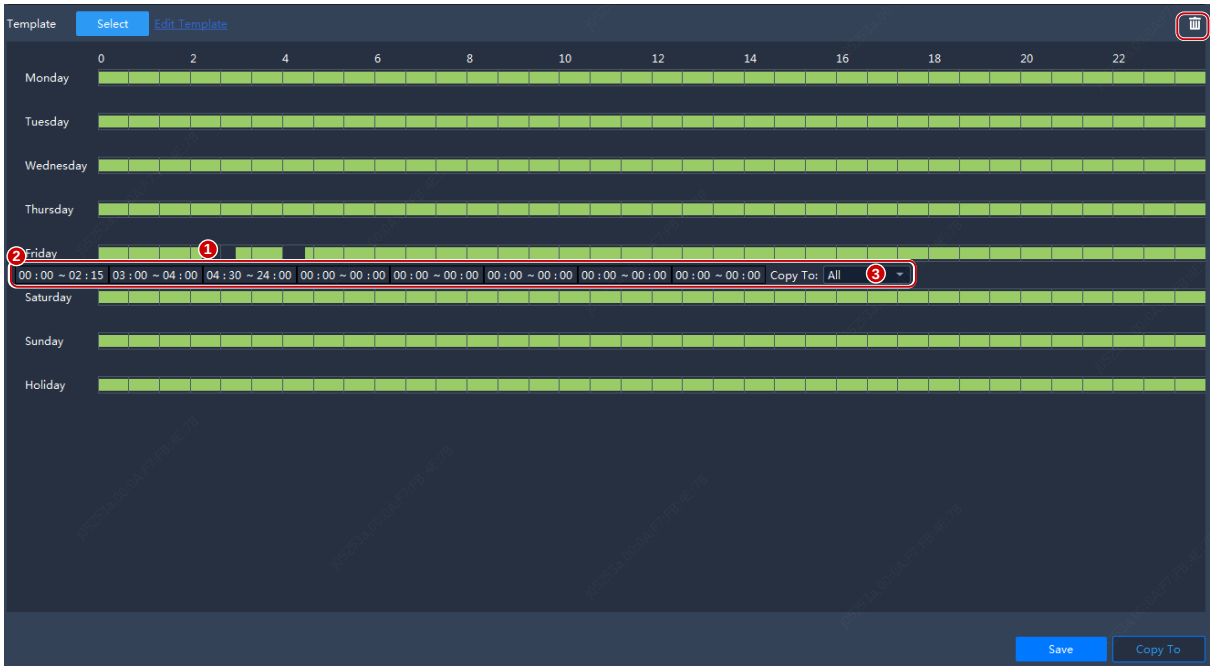


1. Select the camera for which you want to configure a recording schedule.
2. Make sure the **Enable** check box is selected.
3. Click the **Select** button and then select the **All Day** template. The blue on the calendar means time periods during which video will be recorded.
4. Click **Save**.

Customize a Recording Schedule

Customize based on the 24/7 recording schedule.

1. Click or drag on the green to erase, or click or drag on blank areas to draw. Clicking the **Clear** button in the top right corner will clear all time periods.
2. In addition to the method described in step 1, you may also enter start and end times manually. Up to 8 time periods are allowed for each day.



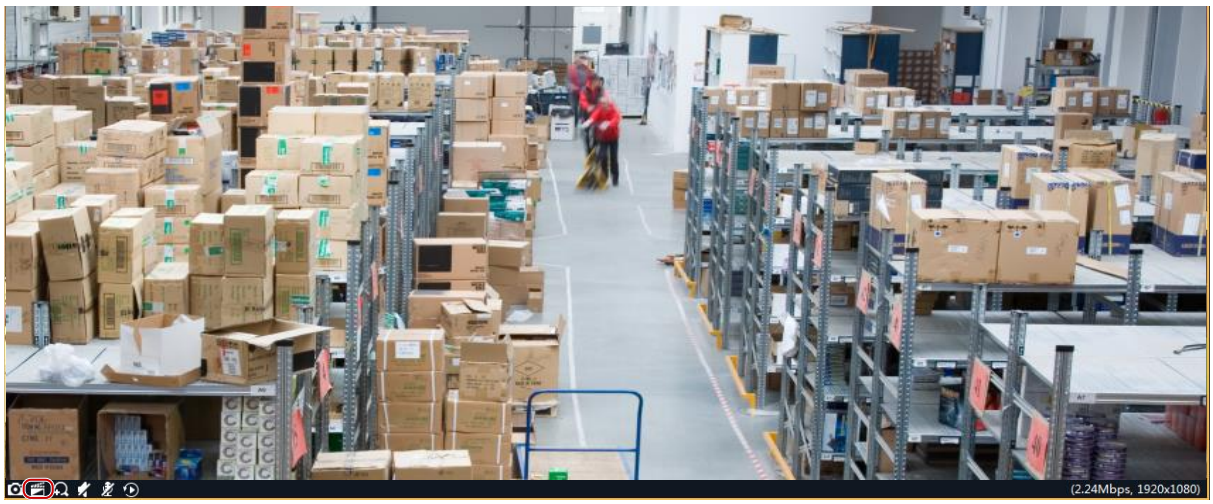
3. After you complete the settings for a day, you may select from the drop-down list and copy the settings to other days. For example, select **All**.
4. Click **Save** to complete the configuration for the selected camera.
5. To make the same recording schedule for other cameras, click **Copy To.**

NOTE!

In addition to the **All Day** and **Work Day** templates, you may customize 8 templates to save different recording schedules.

Record Video Manually

Save live video to your PC as local recording by clicking the Start Local Recording ( ) and Stop Local Recording ( ) buttons on the window toolbar. The storage path and video format are configured in Client Configuration.

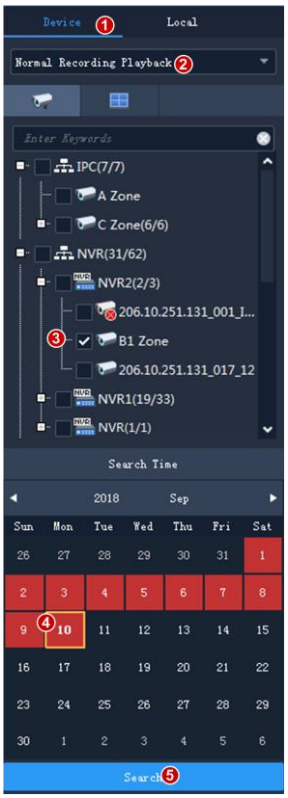


Playback

Click **Playback** on the control panel to search and play recordings, including device recordings and local recordings.

Play Device Recordings

Device recordings refer to videos stored on an NVR or an SD card that is mounted on a camera. When you search for device recordings, the time displayed is same with the system time of the device, not your PC. The GUI and operations may vary with the playback type you choose. We take Normal Recording Playback for example to describe the general procedure.

Step	Description
	1) Select the source of recording (device recording). 2) Select the playback type. 3) Select the camera(s). 4) Select or set the search time. If the device is in another time zone, please use the local time of the device. 5) Click **Search**. ***Note:*** • *In step 2, you may select a sub type to search for event recordings.* • *In step 3, up to 16 cameras are supported if multiple selections are allowed.* • *In step 4: The calendar shows search results for the selected camera(s) (blue means normal recording, and red means alarm recording). This feature is only available to Normal Recording Playback mode.*

Play Local Recording and Image

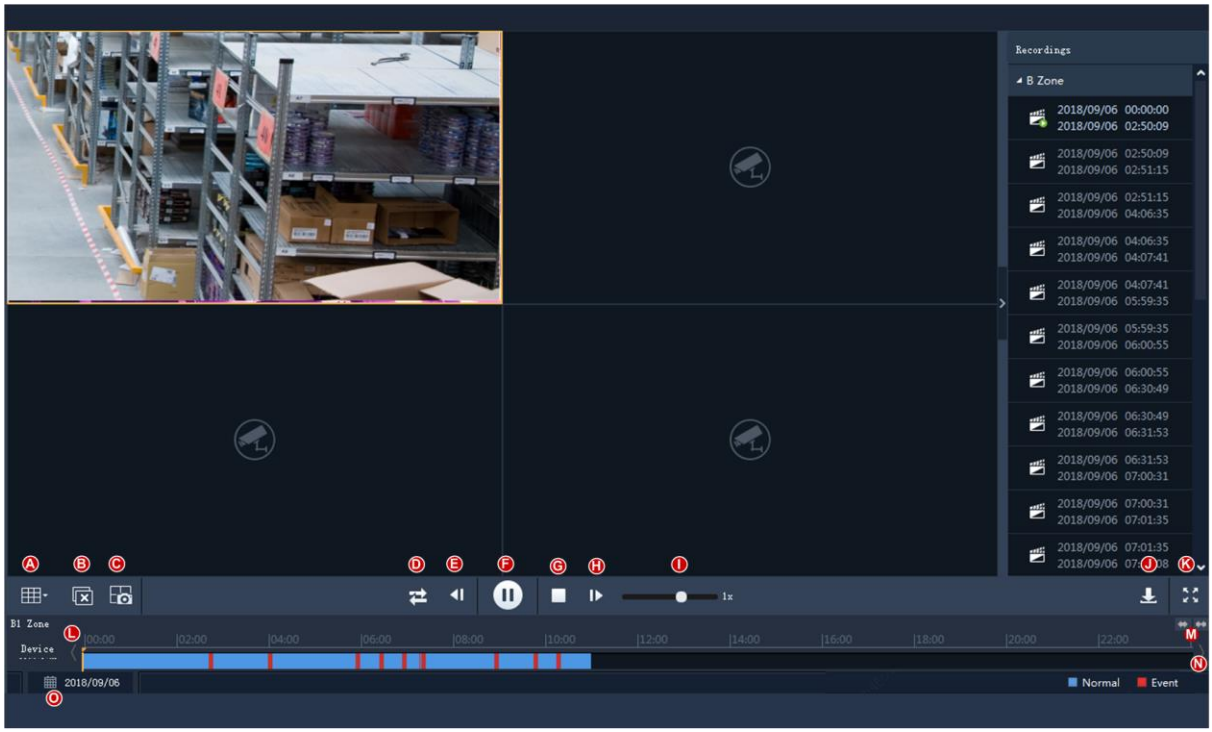
Search and play videos and images saved on your PC. The time of local recordings is the time of your PC.

1. Click the **Local** tab.
2. Select camera(s).
3. Set search time.
4. By default, it searches for recordings. To search for images, select the **Image** radio button.
5. Click **Search**. Search results appear on the list on the right.

Playback Control

Double-click a file on the right-side list to start playback; or click on the timeline to start playback from the corresponding time.

Playback Toolbar



Button	Description
A	Set window layout.
B	Close all windows.
C	Click to take a snapshot of images in all windows.
D	Click to switch to synchronous playback mode. In synchronous playback mode, operations (e.g., pause, resume, stop, adjust speed, click on the timeline to start playing from that point) are effective to all the playing windows. **Note**: Frequent operations (such as pause/resume, adjust speed) during synchronous playback may affect the synchronous performance.
E/H	Play by frame. Click to play the previous/next frame of image.
F	Pause/resume.
G	Stop
I	Adjust playback speed.
J	Download recordings.
K	Switch to full screen mode. Press **Esc** to exit.
L/N	Move the timeline forward or backward.
M	Zoom in or out on the timeline.

O	Click to open a calendar and search recordings of a different date.

Playback Window Toolbar

The window toolbar appears when the mouse cursor rests on a playing window. Operations with the toolbar are for this window only.



Table 6-1 Playback Window Toolbar

Button	Description
A	Take a snapshot and save it to your PC. The image format and storage path is configurable in client configuration (see Client Configuration).
B	Digital zoom. When enabled, drag the mouse to draw an area on the image to zoom in on, and use the scroll wheel to zoom in or out.
C	Clip the video to download.
D	Mute or adjust speaker sound volume on your PC.
E	Current bit rate and resolution.

NOTE!

- The toolbar shows  when the camera is a fisheye camera. Click this button to open the fisheye control panel.
- You can choose a stream transmission protocol (see Client Configuration) according to the network environment to improve image quality.

Right-click Menu

A menu appears when you right-click a window during playback. Many functions on the menu are same to the toolbar buttons.

Playback by View

In normal recording playback mode, playback by view can play recordings of cameras bound to the windows in the set window layout. On the **View** tab, select a custom view, select a date on the calendar, and then click **Search**.

This function is only available to device recording.

Recording Download

Download Recordings

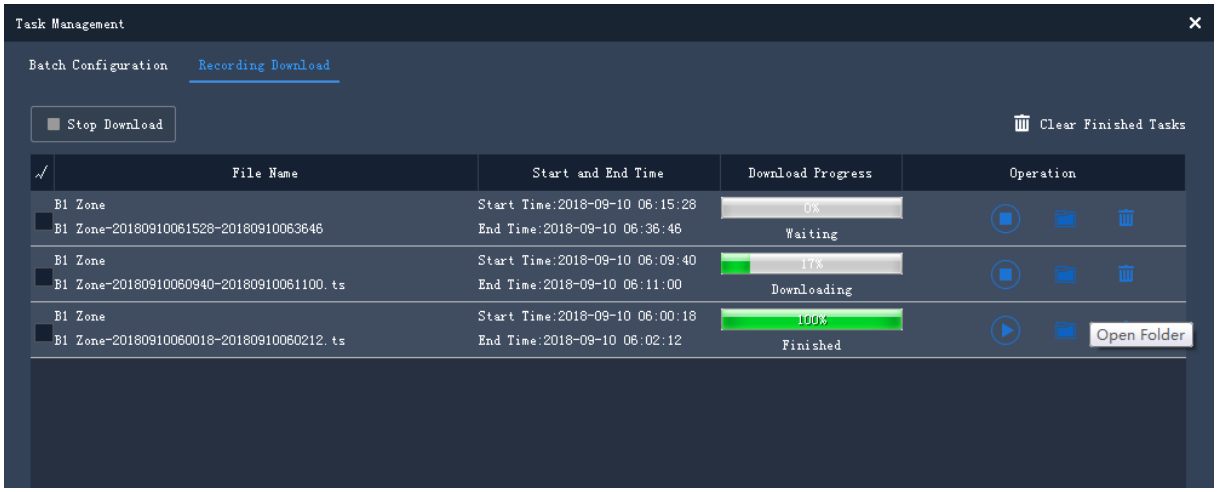
Use the following methods to download recordings from a device to your PC:

- After a search, click the **Download** button ( ) under the recording list (see Playback Toolbar).
- Use the **Start Clipping** and **Stop Clipping** buttons on the window toolbar (see Playback Window Toolbar).
- Use the right-click menu.

Manage Download Tasks

Click the **Task Management** button ( ) in the lower left corner of the GUI to manage download tasks.

On the **Recording Download** tab, you can stop download tasks, clear the finished tasks, play downloaded recordings, and open a folder to view the downloaded recordings.



Note:

- Stopping a download task does not delete the video that's already downloaded to your PC.
- You may set the file format and path at **Client Configuration** > **Audio & Video** > **Recording**.
- A video player (e.g., VLC) is needed to play the downloaded recordings.

7 Video Wall

Play video on a physical video wall.

Video wall is divided into DX video wall and decoding card video wall, depending on the device used to create the video wall.

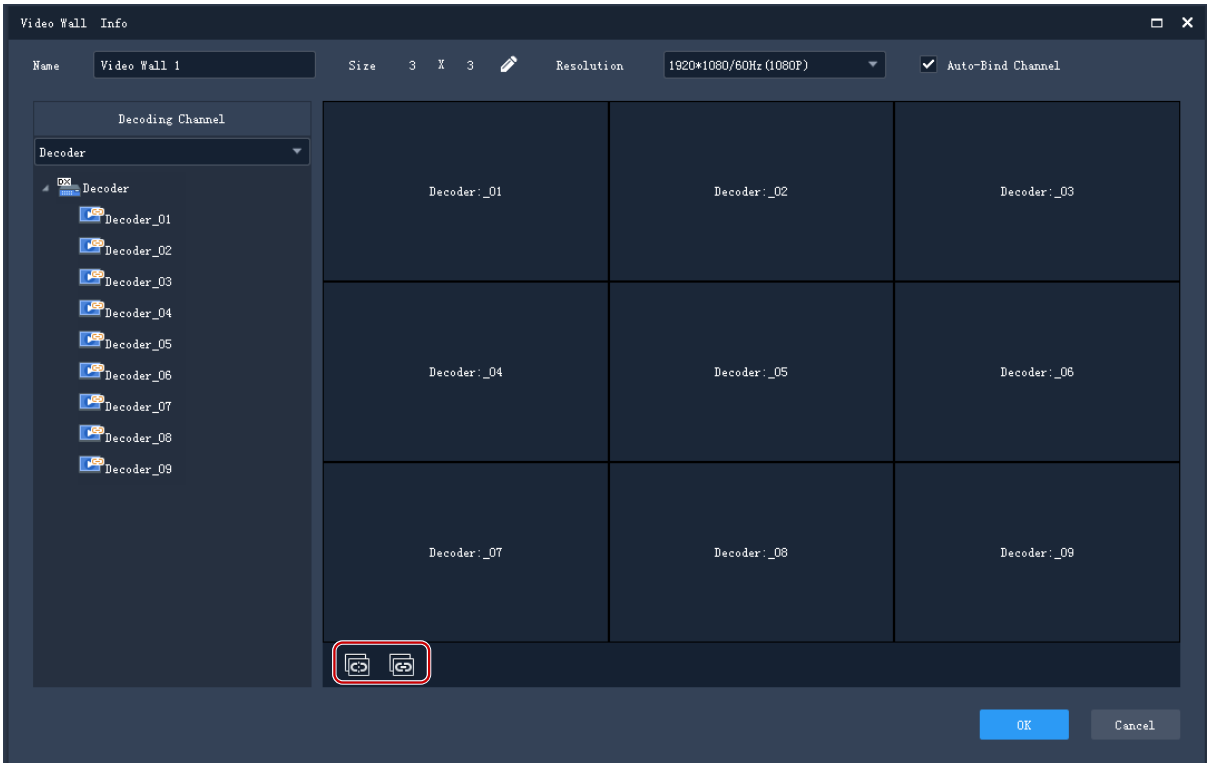
- DX video wall: Video wall created by using a decoding device.
- Decoding card video wall: Video wall created using a decoding card on an NVR.

NOTE!

- Add a decoding device or an NVR as admin first under **Device Management** > **Device**.
- The number of video walls supported, operations allowed, and functions/features available may vary with decoding device and version.

Add a Video Wall

Click **DX Video Wall** on the control panel. For the first time use, click + Video Wall and then choose a video wall type. If a video wall already exists, click + right to the video wall name to add a video wall.



1. Enter the video wall name.
2. Select the decoding device you want to use to create the video wall. The software automatically sets the video wall size and binds decoding channels to the windows. Decoding channel names appear on the screen.
3. Edit the video wall size, resolution or the binding between the decoding channels and windows. Use the **Unbind All** or **Bind All** button as needed.

4. Click **OK**.

Note:

- Make sure the video wall size is consistent with the physical video wall.
- Set small pixel pitch LED if necessary. The special LED width is the width of the last column; the special LED height is the height of the last row. The unit is pixel.

5. To edit or delete a video wall, click  next to the video wall name.

Video Wall Operations

Play Video on Video Wall

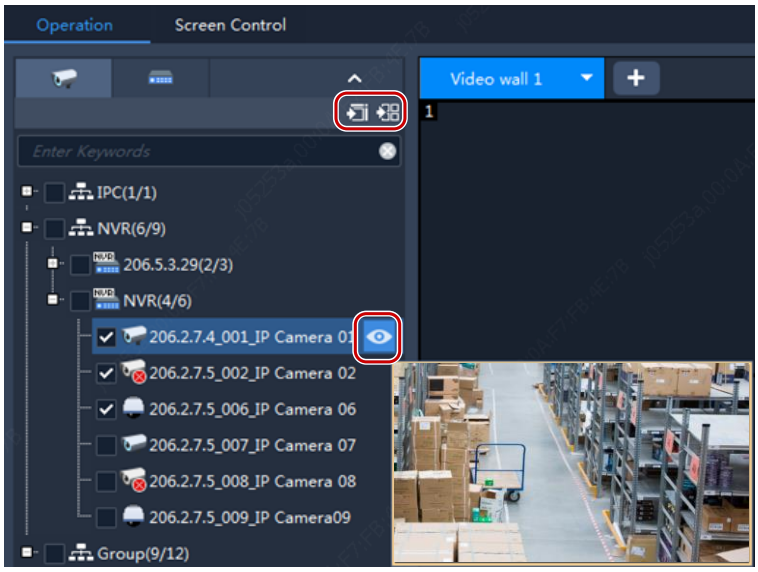
Before playing video on a video wall, you can place the mouse cursor on  after an online camera to preview live video.

1. Drag cameras to windows to start live video on the video wall.



NOTE!

Some video walls require you to open window(s) on the screen first. The functions available may vary depending on the actual video wall, for example, you may open a window manually by dragging on the screen, automatically by choosing an existing layout, or by setting coordinates and window size.



Tip: To start live video from multiple cameras or group(s), select the cameras or group(s), click a window and then click **Play on Screen** or **Play on Wall**.

- Play on Screen: Play on one window.
- Play on Wall: Play on multiple windows.

2. To play a signal source (such as from a PC), click the **Signal Source** tab, and then drag the signal source to the intended window.

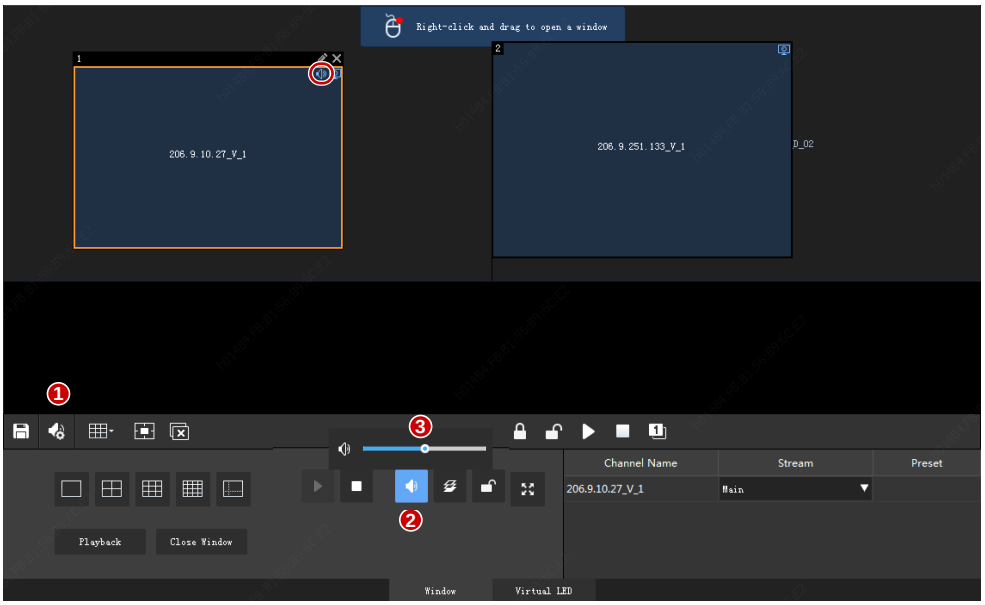
- To choose a window to play alarm-triggered live video, right-click the window and click **Set Alarming Window**. Make sure alarm-triggered live video is configured (see Configure Alarm-Triggered Action for details). To cancel the setting, right-click the window and click **Cancel Alarming Window**.

Note:

- Only one window can be set as the alarming window.
- If the video wall is created using an NVR's decoding card, alarm-triggered live video is only available to a camera under the NVR.

Output Audio

Use the audio output channel of a DX device to output audio of a camera playing in a window or a screen. Only DX video wall created with certain DX device models supports this feature.



1. Click  (1), and then select the audio channel.

2. Click a window/screen, and then click  (2); or right-click and then select **Audio.** An icon appears in the top right corner, means the audio channel is outputting audio of the IPC in the window/screen.
3. Adjust output volume or mute the sound as needed.

Play Sequence Resource

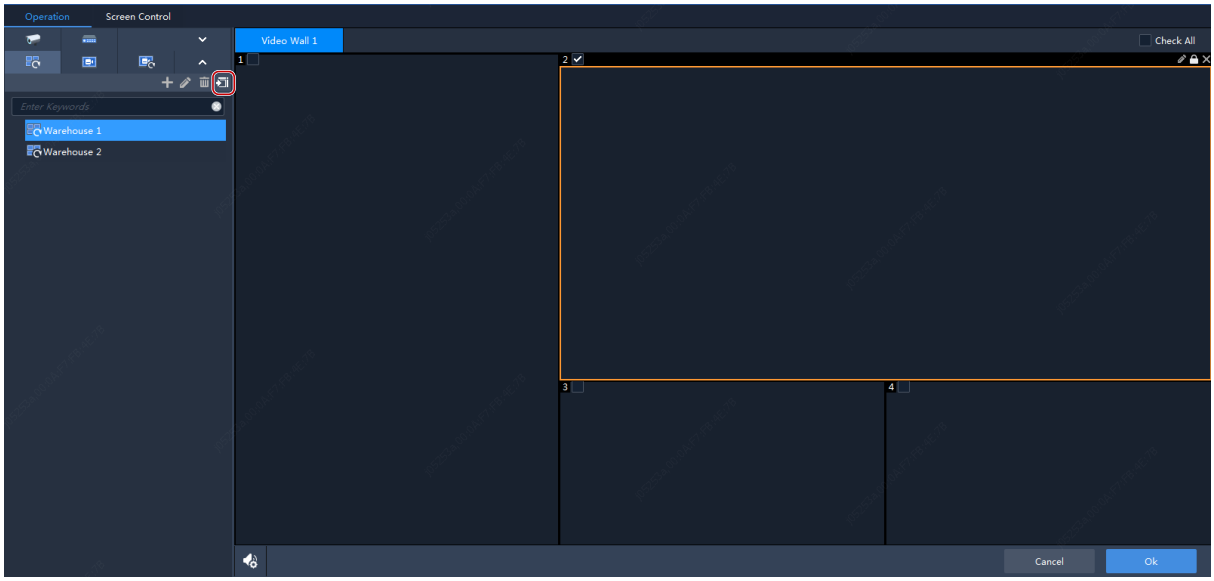
Play sequence resources on video wall. Three sequence modes are available: sequence video on a single window, sequence video on multiple windows, and sequence scenes.

Sequence on Single Window

On the **Sequence Resource** tab, drag a sequence resource to a window.

Sequence on Multiple Windows

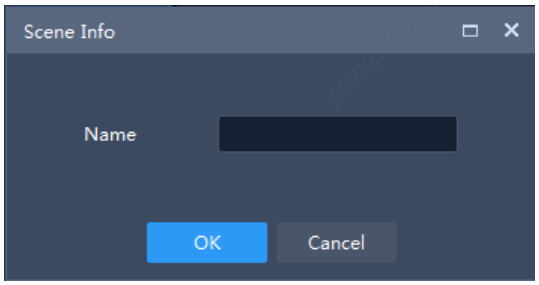
On the **Sequence Resource** tab, select the sequence resource, click **Play on Screen**, and then select the windows.



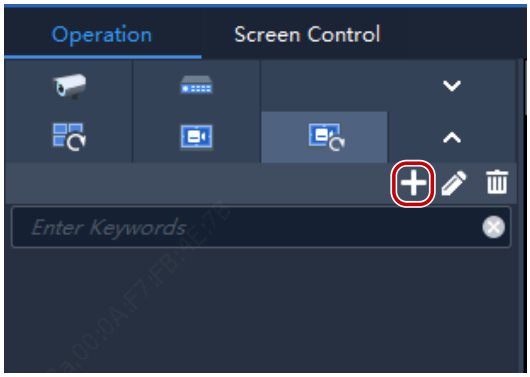
Sequence Scenes

Scene refers to video wall settings including screen layout, window, and video service (live view or sequence). The scene allows you to recall the video wall settings with one click of a button. Sequence scenes is to display different scenes according to set time.

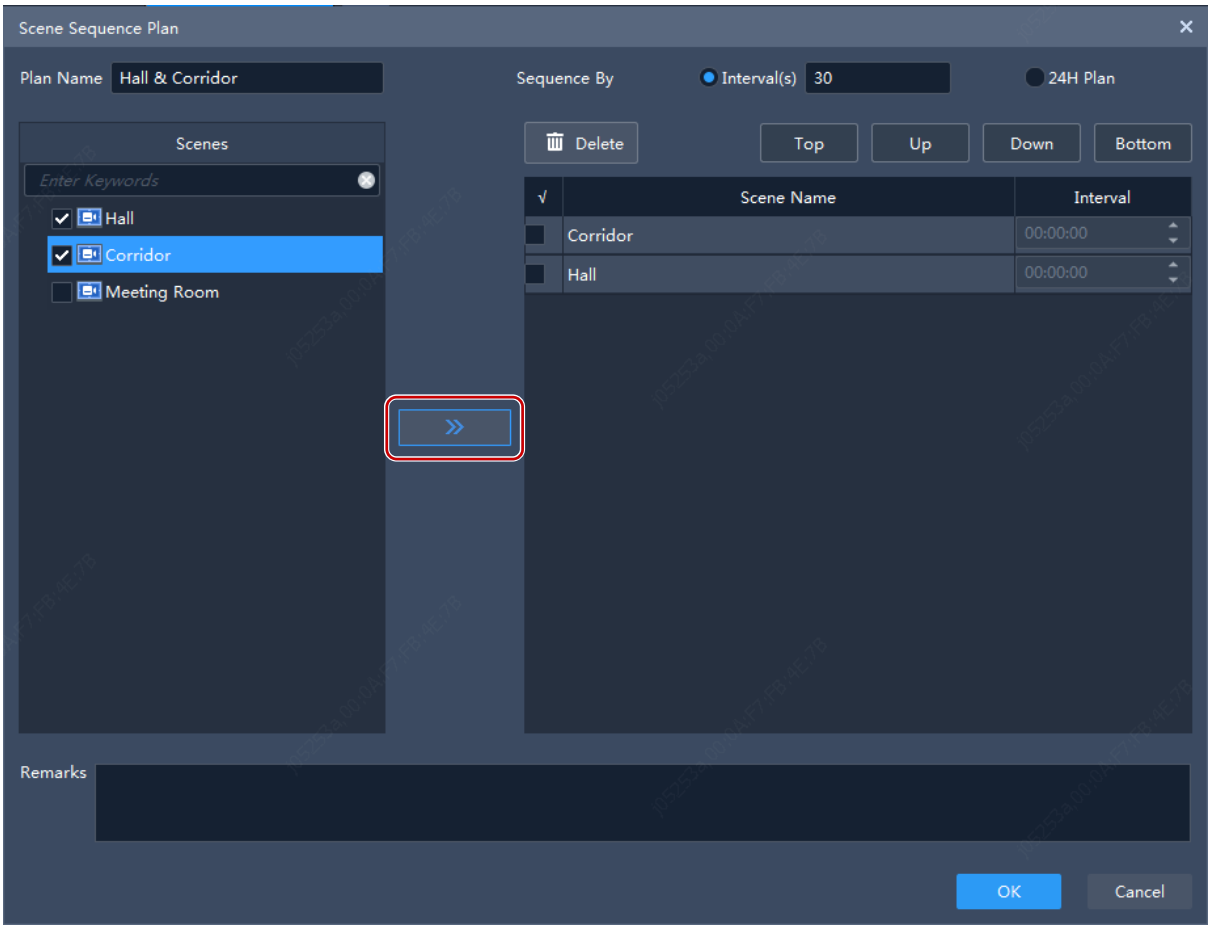
1. Click  or click  on the **Scene** tab to create scenes.



2. On the **Scene Plan** tab, click  to create scene sequence plan.

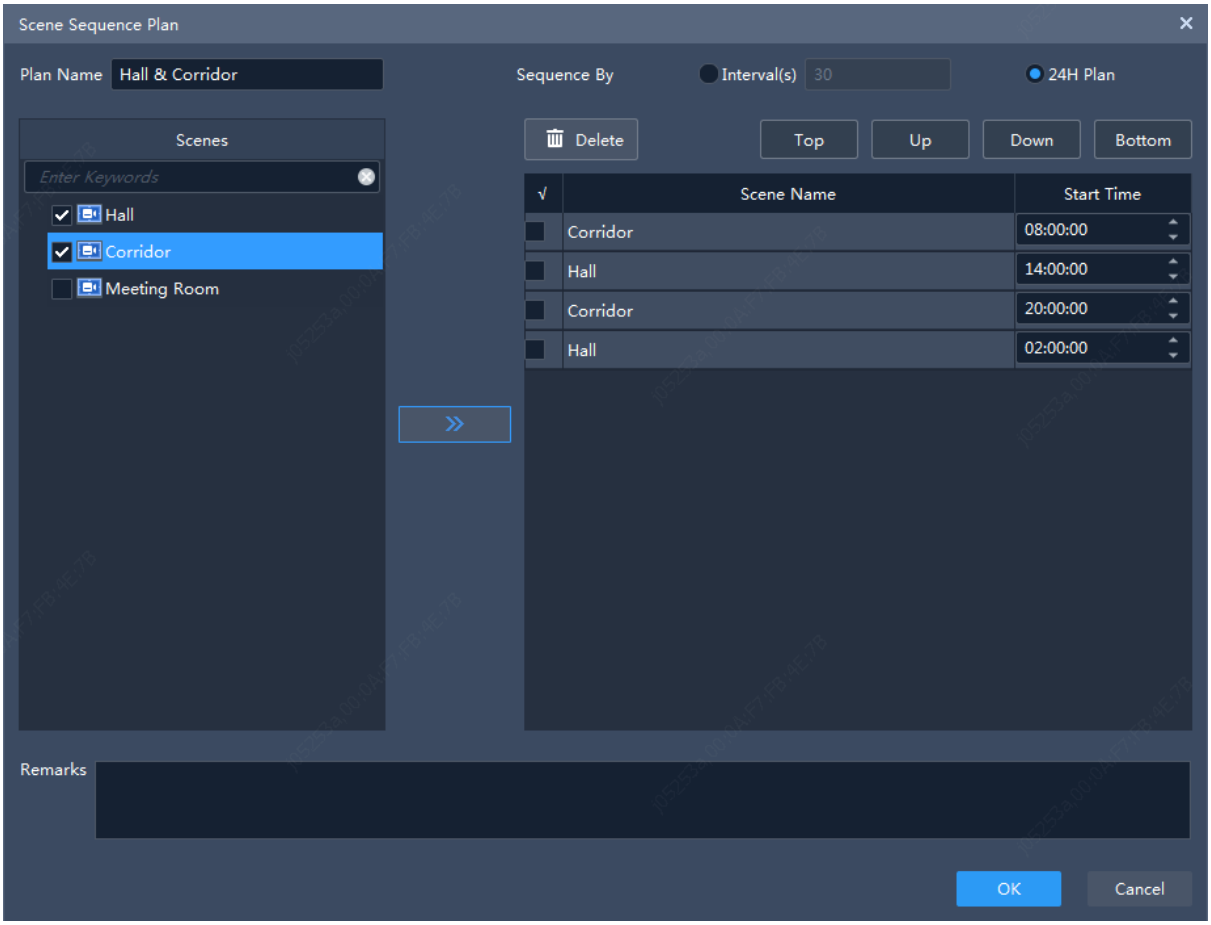


3. Select the scenes and import them to the plan.

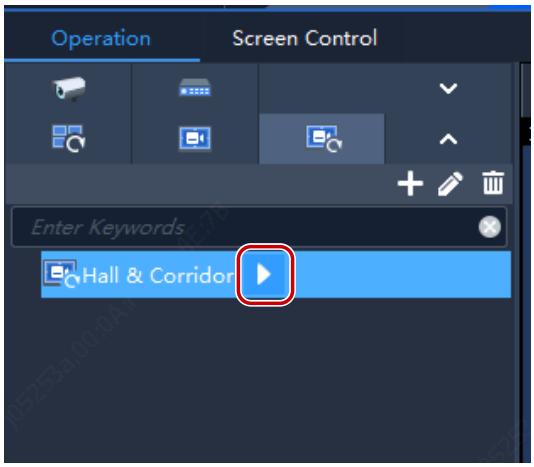


4. Set the sequence mode. You may choose to sequence by time interval or configure a 24-hour sequence plan.

- Sequence by interval: Display scenes one by one at set intervals, for example, 30 seconds in the figure above.
- 24-hour plan: Enable the plan, and then set the starting time. The scene will automatically display on the video wall at the set time. You may add scenes repeatedly as needed.



5. The scene sequence plan appears on the **Scene Plan** tab. Click **Start** to start scene sequence.



Other Video Wall Operations

For more video wall operations, see the tables below.

Figure 7-1 Video Wall Control



The buttons on the toolbar are effective to all windows on the video wall.

No.	Description
A	Save scene. See Sequence Scenes for details.
B	Splice screens (combine several screens to make one bigger screen).
C	Start decoding in all windows.
D	Stop decoding in all windows.
E	Click to renumber all windows according to their positions: from top to bottom, from left to right.



Window control area. Buttons in this area are effective to a selected window.

No.	Description
F	Split a screen.
G	Start decoding.
H	Stop decoding.
I	Display a window in full screen mode.
J/K/L	Current camera, stream type, and preset (PTZ camera only).
M	Search and play recordings.
N	Display/hide the window control area.

The following features may also be available on a DX video wall:

- Virtual LED. You can overlay text on video wall windows and set the background, customize text content, size, color, space, alignment, transparency, and scrolling.
- : When multiple windows overlap, the selected window appears on the top by default. To set a window to appear at the bottom, click this button (or right-click the window and then choose from the shortcut menu).
- : Lock the position and shape of a window (or right-click the window and choose from the shortcut menu). Click to unlock.

- : Click this button to expand the selected window to full screen (or right-click the window and choose from the shortcut menu). Click  to restore.
- View window info: Right-click a window or screen and choose **Window Info** to view information such as window ID, split screen ID, stream status, etc.
- For certain DX video walls, you can double-click a window to magnify it, and double-click again to restore.

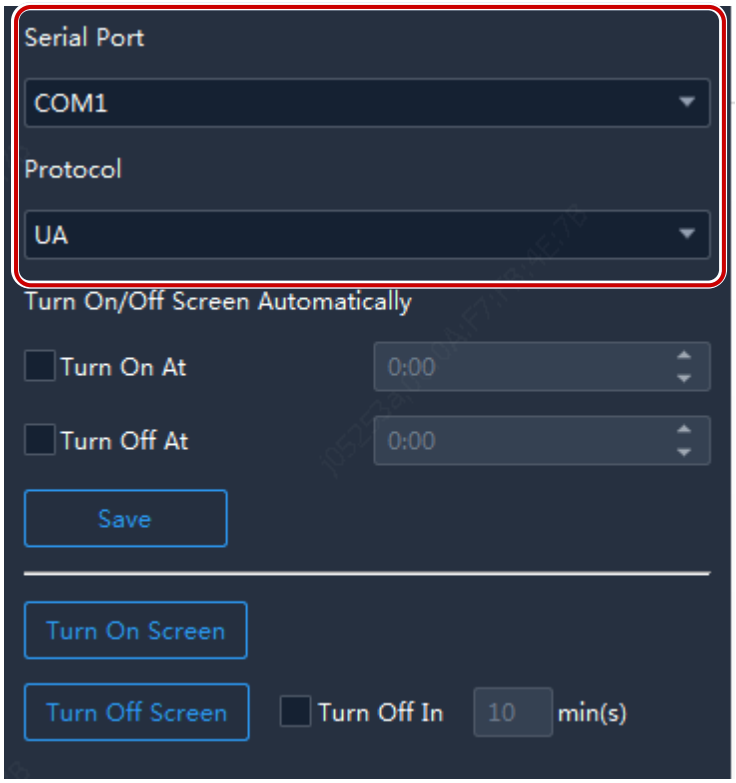
Screen Control

On the **Screen Control** tab, you can turn on/off screens including small pixel pitch LED screens.

Before you operate on the client, make sure the screen, the power distribution box (for LED screen), and the server are properly connected.

Configure Serial Port and Protocol

Configure the serial port and protocol in accordance with the decoding device model and screen type.



Turn On or Off the Screen Automatically at a Set Time

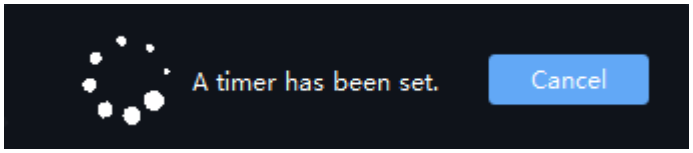
1. Select **Turn On At** or **Turn Off At**, and then set the time(s) when the screen automatically turns on or off.
2. Click **Save**. The screen will turn on or off automatically at the set time.

Turn On or Off the Screen Manually

1. Click **Turn On Screen**. The screen turns on immediately.
2. Click **Turn Off Screen**. The screen turns off immediately.

Turn Off the Screen with Delay

1. Select the check box for **Turn Off In** and then enter the time in the text box.
2. Click **Turn Off Screen**.
3. A message as shown below appears. The screen turns off automatically when the timer expires.

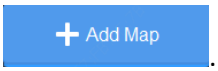


8 E-map

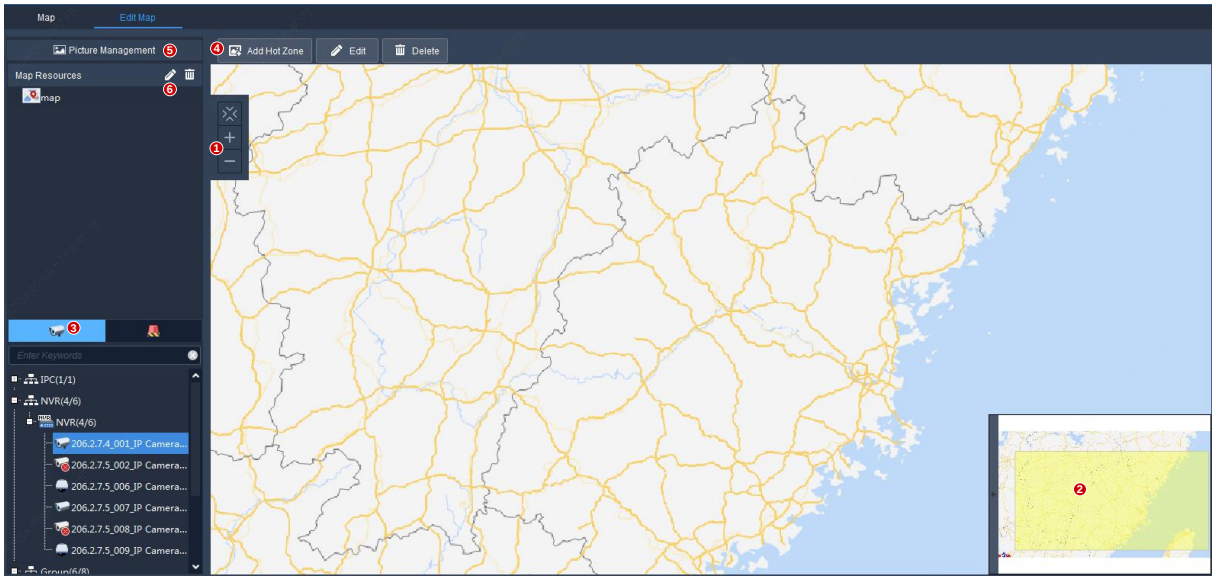
First complete configuration on the **Edit Map** tab, and then use the map on the **Map** tab.

- Hot spot: Video channels or alarm input channels added to the map. Live view and playback are only available for video channels.
- Hot zone: A map on a map. You may add hot spots on a hot zone.

Map Configuration

Click **E-map** on the control panel, and then click 

. PNG, BMP and JPEG images are allowed. The added map appears on the page and on the **Map Resources** list on the left.



You can:

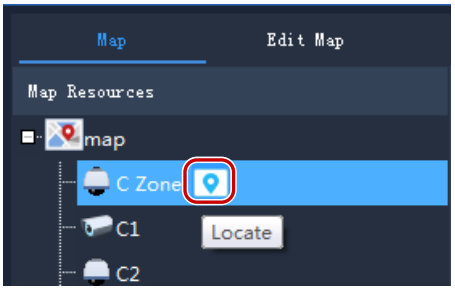
- Change the map scale: Use the scroll wheel or click the zoom buttons (1) to zoom in or out.
- Eagle eye: Drag on the yellow area (2) to view details on the map (or drag map directly).
- Add hot spots (3): Under , drag cameras to intended positions on the map; use the same way to add alarm input under . Right-click a hot spot to change color or delete it from the map.
- Add hot zones (4): Click the **Add Hot Zone** button to add a map on the map. Up to 7 layers of maps are allowed. Right-click a hot zone to change color or delete it from the map.
- Manage pictures (5): Add or delete maps. Deleting a map will also delete all hot spots and hot zones on it.
- Edit map resources (6): Edit map name, and change the icon color of hot zones.

Map Operations

After you complete the configuration, click the **Map** tab to use the map. You may view live video from hot spots, handle alarms, etc.

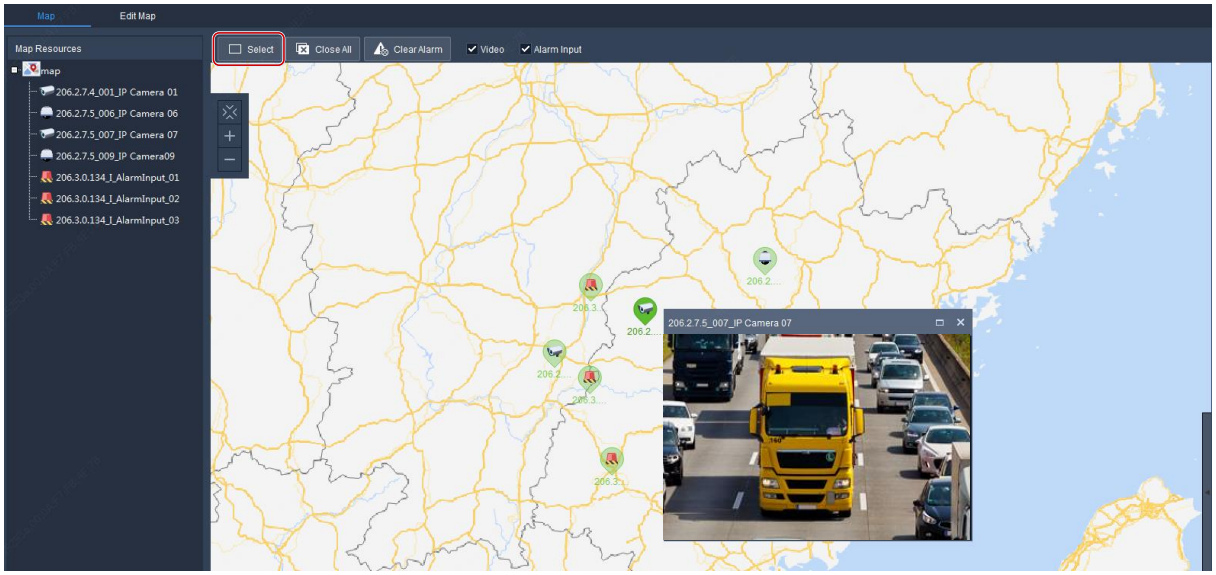
Locate a Hot Spot or Hot Zone on the Map

Click the **Locate** button to locate a hot spot or hot zone on the map.

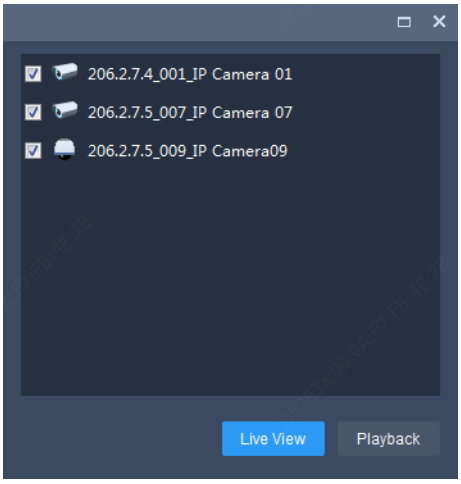


View Live Video from a Hot Spot

Double-click a video channel hot spot on the map to view live video from it. Up to 4 cameras are allowed. Use the window toolbar as needed.

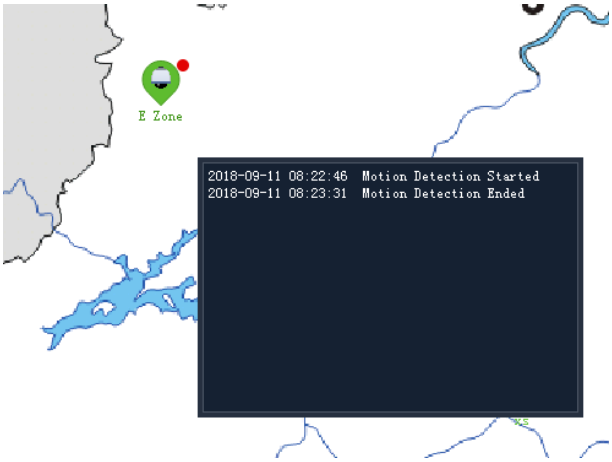


Click the **Select** button, and then drag on the map to select hot spots. Choose to play live or recorded video from the selected hot spots.



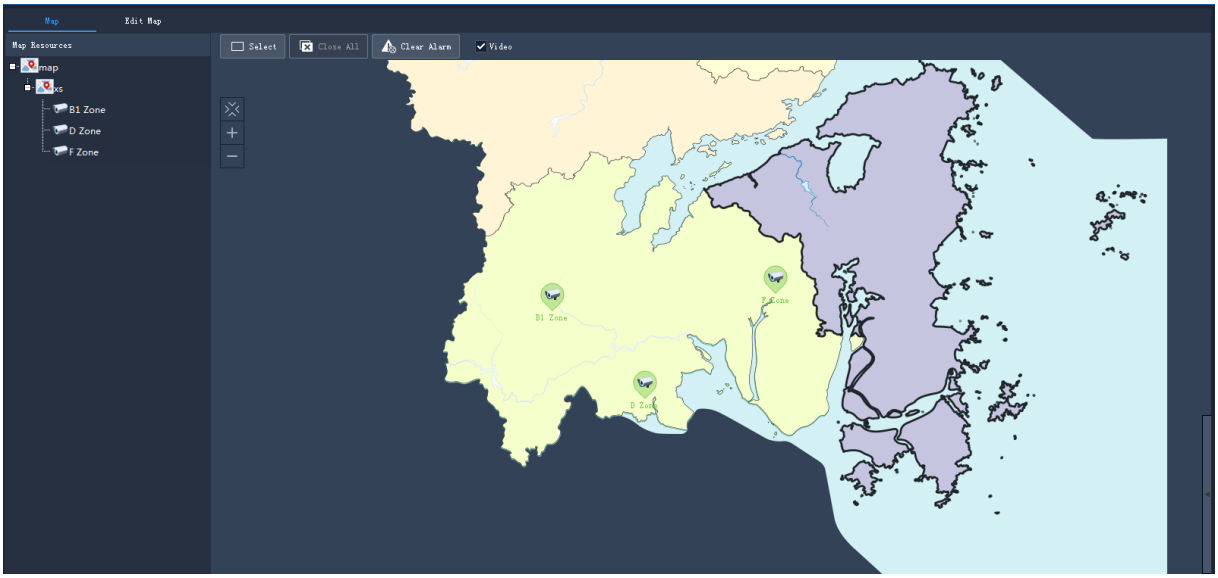
Handle Alarms

When an alarm occurs, the corresponding hot spot flashes red on the map. If the hot spot is on a hot zone, the hot zone flashes red. Right-click the hot spot to play live or recorded video, view alarm info or clear the alarm.



View Hot Zone

To view a hot zone, click the hot zone map on the **Map Resources** list on the left, or double-click the hot zone icon on the map.



Click the main map on the **Map Resources** list to return.

9 Audio

Audio services include audio, two-way audio and broadcast. Two-way audio cannot work at the same time with audio or broadcast, which means, starting two-way audio will stop audio or broadcast, and vice versa.

Note: Broadcast is not available on Mac OS system.

Audio

When live video is playing, click  in the window toolbar to turn on audio from the camera. The audio is one-way from the camera to your PC and it stops when live video is closed.

Note: Turning on audio for another camera will turn off audio from the current camera.

Two-Way Audio

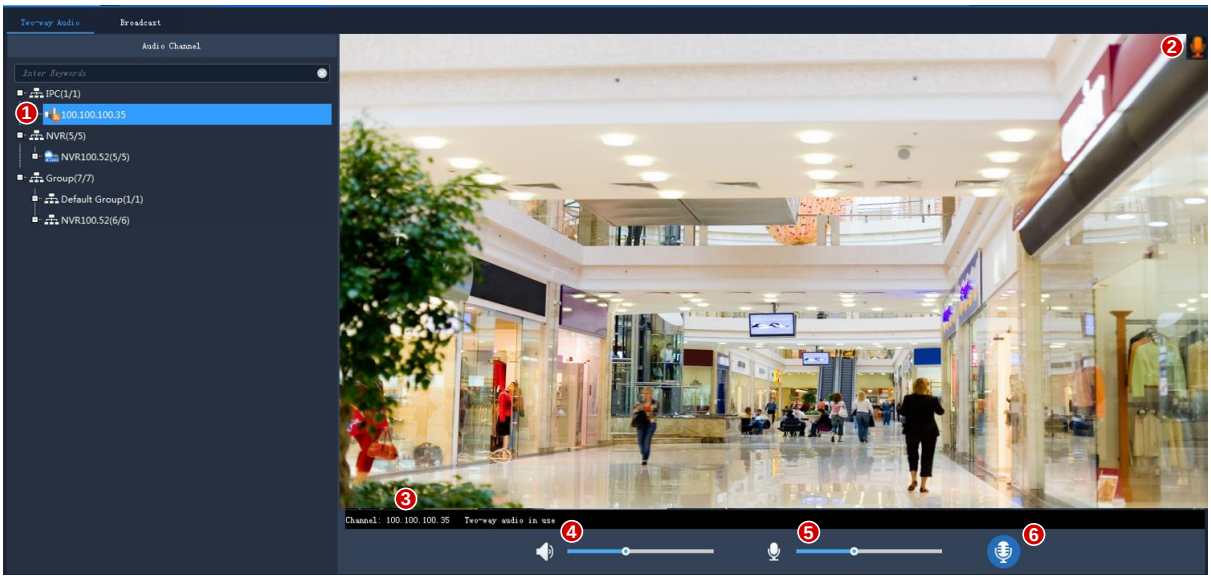
Two-way audio is audio communication between a device (camera or NVR) and your PC. Both the device and the PC shall be connected to audio input and output devices.

Note: Two-way audio is available to one device at a time.

Two-Way Audio with a Camera

Double-click the camera or drag it to the window on the right. When two-way audio is started, the audio channel symbol changes (1), the two-way audio symbol flashes in the window's upper right corner (2), and a hint appears indicating two-way audio is in use (3).

During two-way audio, you can adjust sound volume (4)(5) or stop two-way audio (6).



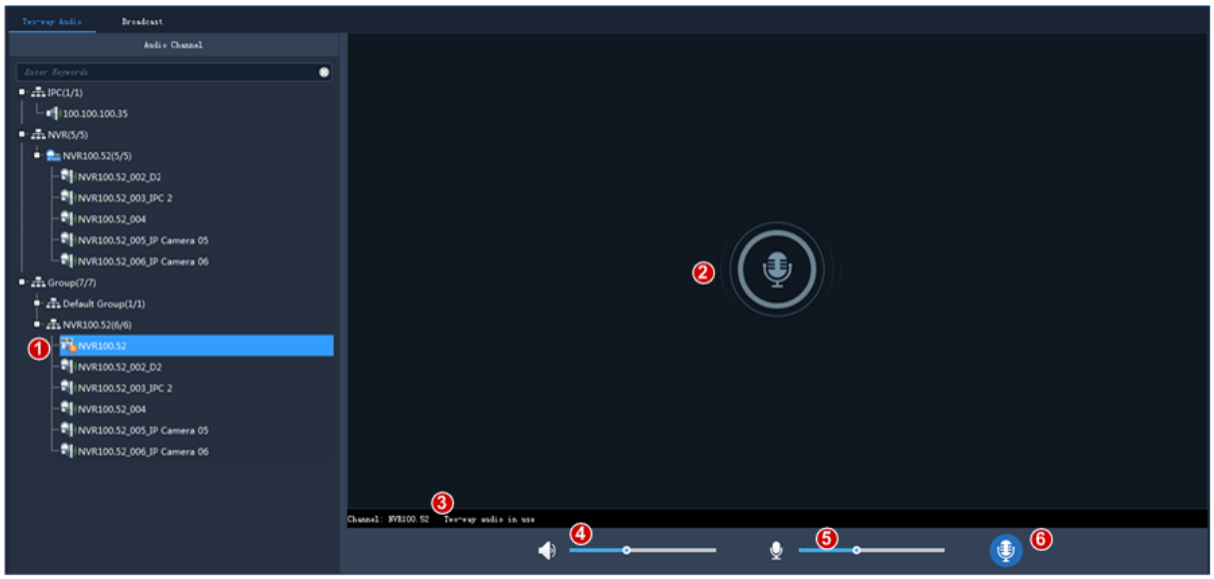
NOTE!

You may also start two-way audio with a camera (camera only) by clicking  in a live view window.

Two-Way Audio with an NVR

On the **Two-way Audio** tab, double-click the NVR or drag it to the window on the right. When two-way audio is started, the audio channel symbol changes (1), the two-way audio symbol appears at the window center (2), and a hint appears (3) indicating two-way audio is in use.

During two-way audio, you can adjust sound volume (4)(5) or stop two-way audio (6).



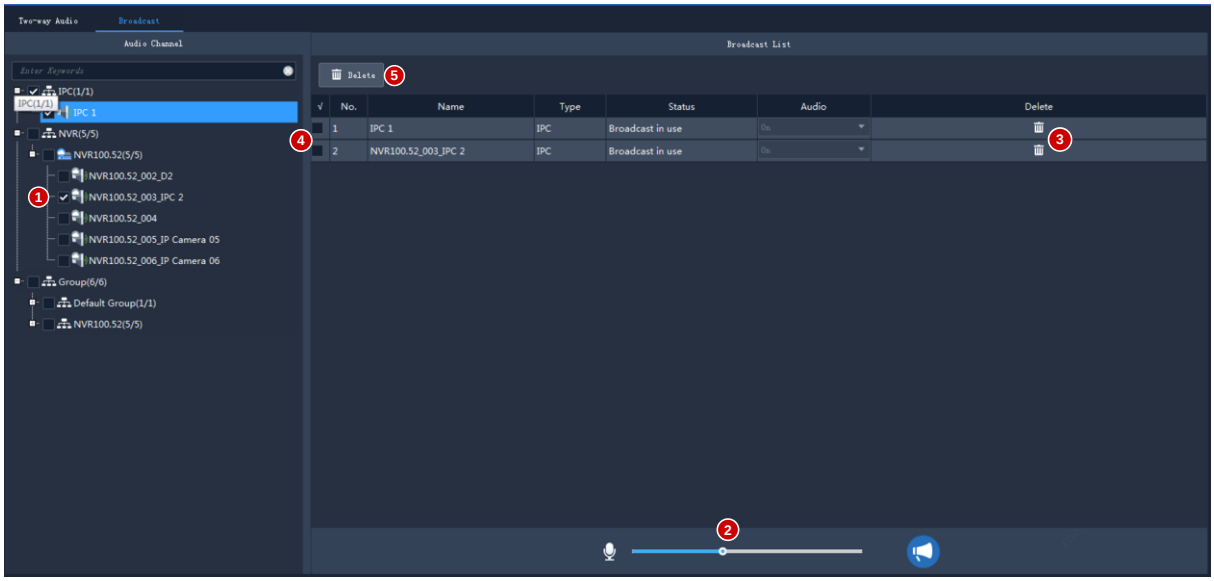
Broadcast

Broadcast is one way from your PC to cameras.

Click the **Broadcast** tab. Select audio channels in the list on the left. You can:

- Select audio channels one by one.
- Select an NVR or an organization to select all audio channels under it.

The selected audio channels are automatically added to the broadcast list on the right. After all the channels are added, click  to start broadcast.



During broadcast, you can:

- Add more audio channels by selecting from the list on the left (1). Broadcast starts automatically for these channels.
- Adjust sound volume (2) or click  to turn off the microphone.
- Delete audio channels from the broadcast list: click  (3) to delete one by one; or select the check box (4) and then click  (5) to delete in batch. Clicking  will select all channels in the broadcast list.
- Stop broadcast: click  or close the **Audio** page.

NOTE!

Currently, broadcast to an NVR is not available.

10 Alarm Configuration

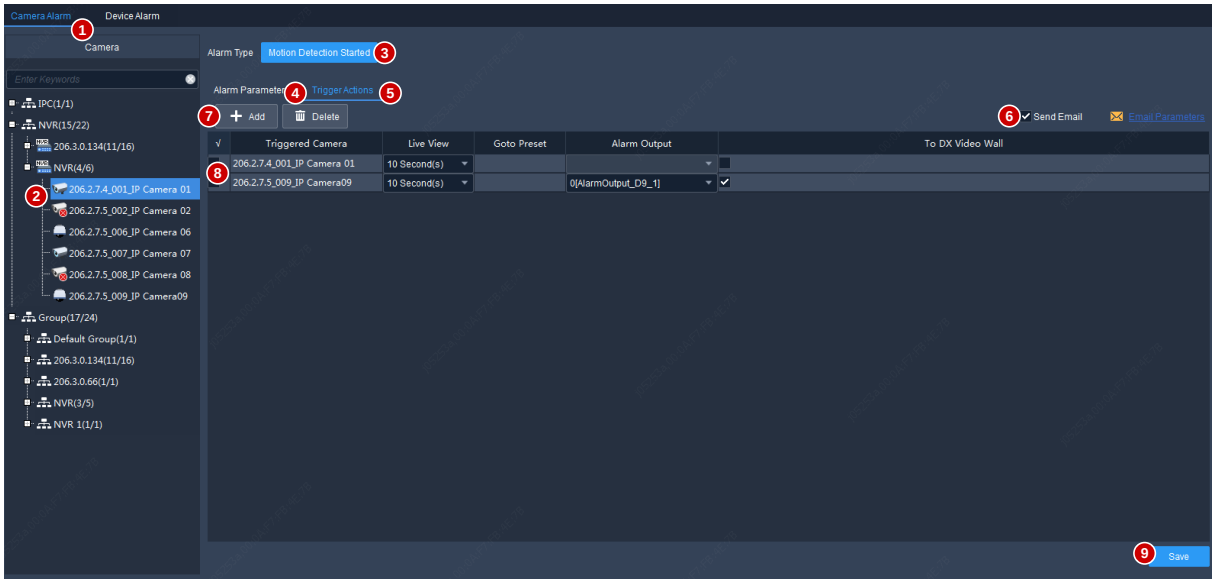
Configure action(s) to trigger when an alarm of a certain type occurs at a specified source; view alarm records and handle alarms.

Configure Alarm-Triggered Action

Alarm configuration includes the configuration of alarm source, alarm type, device to link, and action to trigger.

Click **Alarm Configuration** on the control panel and then follow the steps.

Example:



1. Click a tab according to the alarm type you want to configure. Take **Camera Alarm** for example.

- Camera alarm: includes camera online/offline and event alarm.
- Device alarm: includes device online/offline, disk online/offline.

2. Select an alarm source. The alarm source will trigger the configured actions.
3. Select an alarm type. An alarm of the specified type will trigger the configured actions.
4. Configure alarm parameters.

   For certain alarm types (such as motion detection, tampering detection and alarm input), you need to click **Configuration** to access the device's Web interface and complete configuration first. Take motion detection as an example, you need to make sure motion detection is enabled, detection area is specified, and arming schedule is configured.
5. Click the **Trigger Actions** tab.
6. To receive an email alert when an alarm occurs, select the check box and complete email configuration (see Client Configuration).
7. Click **Add**. A dialog box appears. Select the device(s) to link and then click **OK**. The linked device(s) appear on the list. The device(s) will be triggered to perform the specified action(s) when an alarm of the specified type (step 2) occurs at the specified source (step 1).
8. Configure actions to trigger:

- Alarm-triggered live view: An alarm will trigger a pop-up window playing live video from the camera.
- Alarm-triggered preset: An alarm will trigger the PTZ camera to rotate to the preset. The presets in the list must be configured beforehand.

- Alarm-triggered output: An alarm will trigger the camera to output an alarm and trigger an action by a third-party device.
- Alarm-triggered video wall: An alarm will trigger the video wall to play live video from the camera. You need to complete video wall configuration first. Only one camera can be selected.

9. Click **Save**.

NOTE!

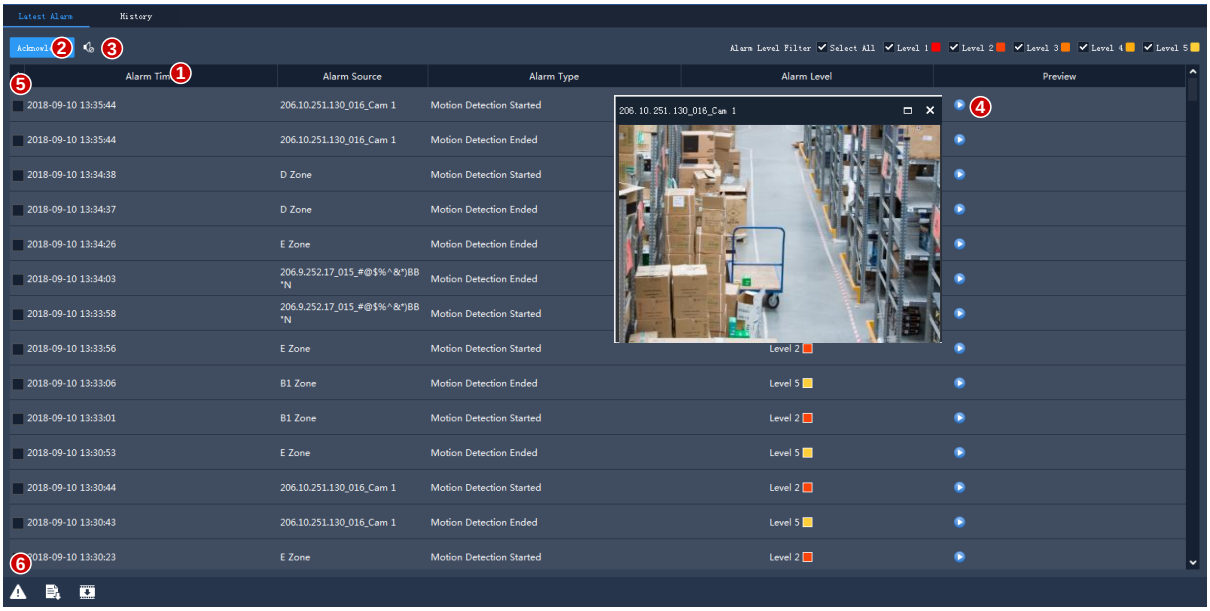
- In order for alarm-triggered live view to take effect, click in the bottom left corner of the GUI and select **Display Link Video**.
- Triggering live video from multiple cameras may cause high CPU usage of your PC and may therefore affect other services.

View Alarm Records

Click **Alarm Records** on the control panel to view alarm records, acknowledge alarms, and export alarm data to your PC.

Latest Alarm

The **Latest Alarm** tab list alarms reported since your current login and refreshes automatically.



Tips:

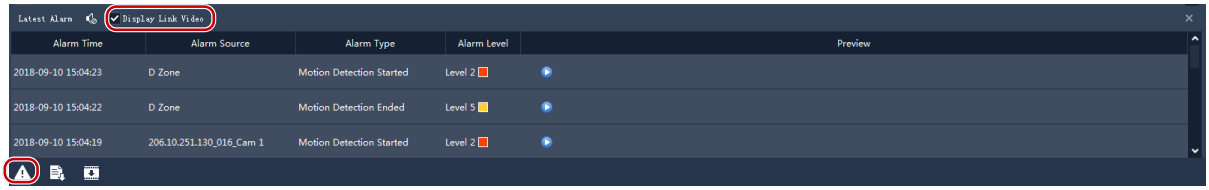
You can:

1. Sort records in ascending/descending order by clicking a header (e.g., **Alarm Time**).
2. Acknowledge alarms: Select (or double-click) an alarm and click **Acknowledge**. Acknowledged alarms are moved to the **History** tab.
3. Click to turn on/off alarm sound.

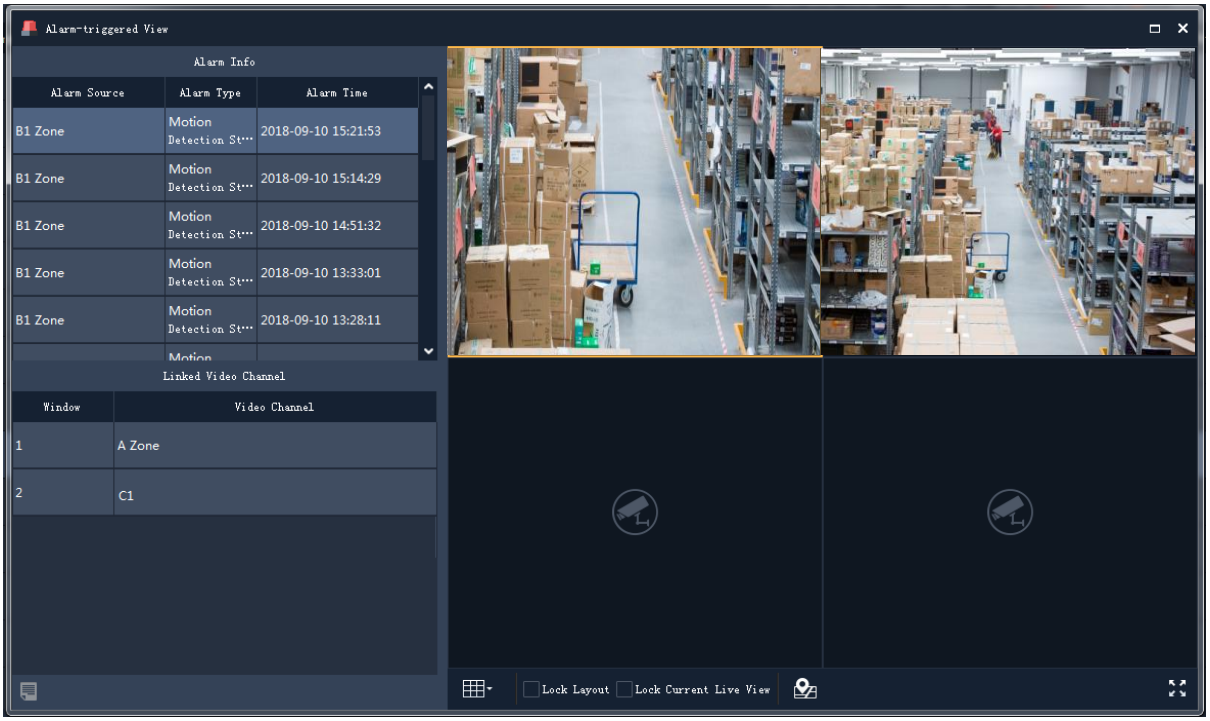
4. Click  to play an alarm video. The length of alarm video is configurable in client configuration (**Operation** > **Alarm** > **Stop Playback After** and **Start Playback Before**).

5. Click  to select/deselect all the alarms displayed.

6. Click the **Latest Alarm** button () in the lower left corner of your GUI. On the page displayed, you can turn on/off alarm sound, select/deselect **Display Link Video** to enable/disable alarm-triggered live video, or double-click a record to display the full **Realtime Alarm** tab.



- The **Alarm-triggered View** window pops up playing alarm-triggered live video when an alarm occurs.



Tips:

- The window toolbar is available (see Live View Window Toolbar).
- Lock Screen: When selected, the current window layout (e.g., 4-window layout) is locked, and it does not change as new alarm-triggered live video occurs.
- Lock Current Live View: When selected, the current live video will not be replaced by new alarm-triggered live video.

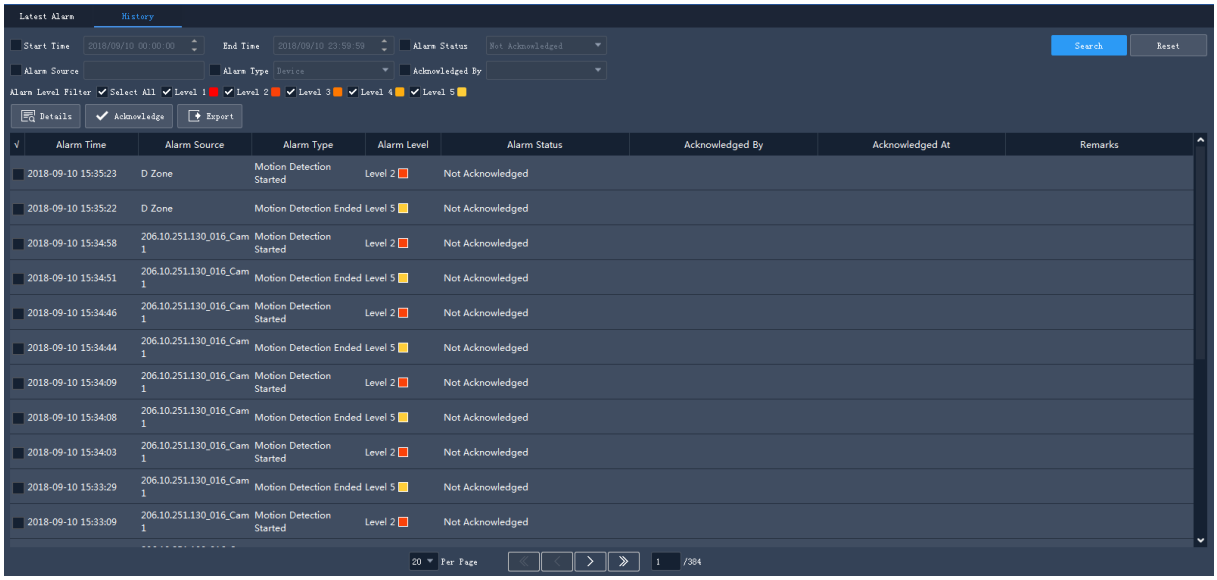
- Live video stops when the set play time is over (see Configure Alarm-Triggered Action). You can play the video again by double-clicking the alarm record in the top left area.
- Click the button in the lower left corner to open the alarm records page.

Alarm level and corresponding alarm types:

Alarm Level	Alarm Type
Level 1	Manual alarm
Level 2	Device offline, motion detection started, alarm input started, tampering detection started, disk abnormal, disk offline, array damaged, array degraded.
Level 3	Device online, disk online.
Level 4	Reserved.
Level 5	Motion detection ended, alarm input ended, array back to normal.

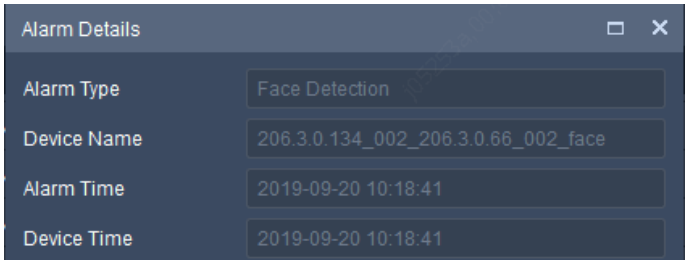
History Alarm

All alarms, including latest alarms and history alarms, can be retrieved on the **History** tab.



You can:

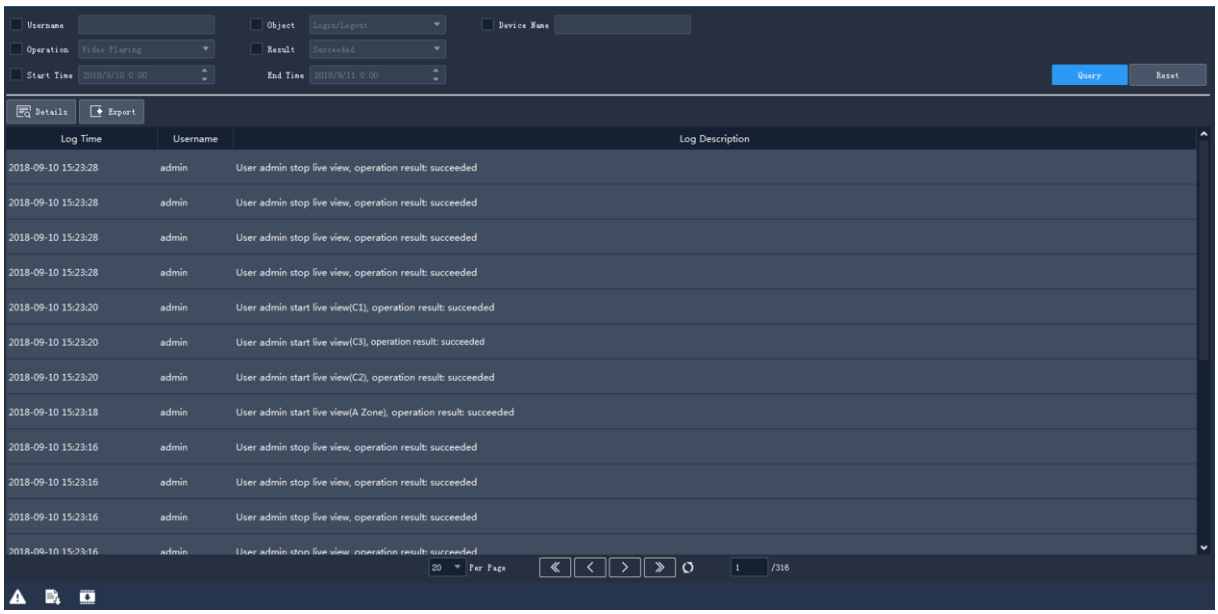
- Set search conditions. Click **Reset** to reset search conditions.
- Click a header (e.g., Alarm Time) to sort records in ascending/descending order.
- Choose the number of records displayed per page.
- Double-click a record to view details. **Alarm Time** is your PC's system time when the alarm occurs, and **Device Time** is the device's system time when the alarm occurs. The times can be different. You will also find a time difference if your PC and the device belong to different time zones.



- Select an alarm and click **Acknowledge** to acknowledge it.
- Click √ to select/deselect records displayed on the current page.
- Click **Export** to export search results to your PC as a CSV file. Use Microsoft Excel to open it.

11 Operation Logs

Click **Operation Log** on the control panel to query logs and export search results to your PC. Log information includes username, operation details and result.



You can:

- Set search conditions. Click **Reset** to reset search conditions.
- Click a header (e.g., Log Time) to sort records in ascending/descending order.
- Choose the number of records displayed per page.
- Double-click a record to view details.
- Click **Export** to export search results to your PC as a CSV file.

12 Client Configuration

Click **Client Configuration** on the control panel to configure the following parameters.

Parameter			Description
Audio & Video	Video	Processing Mode	• **Short Delay**: Video delay is minimized, though video quality may not be satisfactory. • **Fluent**: Video fluency takes priority, and video delay may exist.
		Display Mode	Set according to the display capability of your PC.
		Stream Transmission Protocol	Transmission protocol for a camera to send video data to the display window. The changed setting takes effect at the next startup of the software. ***Note**:* • ***TCP** is recommended in poor network conditions.* • *For **UDP**, make sure the software is not blocked by the firewall.*
		Enable Shortcut PTZ Control	When enabled, shortcut PTZ control is available.
		Enable GPU Mode	When enabled, the software can start stream for more cameras. The supported encoding formats (e.g., H.264, H.265) are displayed when this option is enabled.
	Snapshot	Snapshot Mode	• Auto: Save snapshot(s) in specified format to the specified path. • Manual: In this mode, user can select the snapshot(s) to save, set the path and format, and enter remarks (for JPEG only).
		Continuous Snapshot Interval	Time interval between two snapshots.
		Continuous Snapshots	Number of snapshots to take every time.
		Snapshot Format	Choose the format of snapshots taken to be saved on your client computer: • BMP: Save snapshots without compression. It takes more space than JPEG. • JPEG: Snapshots are compressed to save space at the expense of reduced image quality.

Parameter			Description
	Recording	Local/ Downloaded Recording Format	Format of local/downloaded recordings: TS and MP4.
System	Startup	Enable Auto Login to EZStation 3.0	When enabled, you will automatically log in to EZStation after you start the software. If **Enable Auto Login to Windows** is enabled at the same time, the software will automatically start after the computer accesses the Windows operating system.
		Enable Auto Login to Windows	When enabled, automatically log in to Windows with the provided username and password at startup.
	Log	Save Operation Log For	Retention period for operation logs.
		Save Alarm Log For	Retention period for alarm logs.
	Maintenance	Import Configuration	Import configurations from a configuration file.
		Export Configuration	Export configurations to save as a file.
Operation	Alarm	Enable Alarm Sound	If enabled, you can custom alarm sound duration and set different sounds for different alarm types.
		Start Playback Before/After	Length of video before/after the alarm time for playback. Use these settings to customize the length of alarm video that plays on the **Alarm Records** page.
	Service	Enable Auto Time Sync	If enabled, the software syncs the PC's system time to cameras at the synchronization interval.
	Email	Required for alarm-triggered email (see Configure Alarm-Triggered Action). The specified email address(es) will receive an email when an alarm occurs. • Sender: Email address used to send emails. • Recipient: Email address used to receive emails. **Tip**: Use the sender address as the recipient and click **Send Test Email** to make a test.	

13 User Management

Click **User Management** on the control panel to add, edit or delete users.

Use the default username/password (**admin**/**123456)** to log in. "admin" is the super administrator and cannot be edited or deleted.

1. To add a user, click **Add**:

- Administrator: Only admin can add administrator. Administrator has all permissions by default.
- Operator: Admin or administrator with user management permissions can add operators. An operator has no permission by default.

2. To assign permissions, specify permissions on the left. For some permissions (e.g., Live View), you need to select device(s) on the right.

For example, the user "guard" will only have Live View, PTZ Control, Snapshot, Local Recording, Play Local Recordings, Play Remote Recording, Download Remote Recording and Two-way Audio permissions to the two cameras that are selected on the right.

3. To edit a user (username, password, permissions), double-click the user on the list; to delete user(s), select and click **Delete**.

NOTE!

Menus may be grayed out or hidden for lack of permission. Contact admin if necessary.

14 Appendix

Add an Encoding Device by EZDDNS

1. Enable UPnP on your router. Refer to router's user guide.
2. Log in to the Web interface of your device and enable port mapping (**Network** > **Port Mapping**).

- Mapping Mode: **UPnP** is recommended
- Mapping Type: **Auto** is recommended. The device and the router negotiate external ports.
- If you choose **Manual**, make sure the ports you set are valid; otherwise, port mapping does not take effect.
- If external IP address is not displayed: a. make sure UPnP is enabled on the router; b. some routers limit the number of devices for port mapping. If the maximum number has reached, revoke unnecessary port mapping.

3. On the Web interface of the device, configure DDNS (**Network** > **DDNS**) as follows:

- DDNS Type: EZDDNS
- Server Address: en.ezcloud.uniview.com

- Port: 80
- Domain Name: Choose one that is easy to remember (e.g., myNVR123) and test whether it is available.
- If configuration succeeds, the device is online, and the server address is displayed (e.g., en.ezcloud.uniview.com/myNVR123).

4. Add the encoding device on the software:

- Adding Mode: EZDDNS
- Device Name: Set as needed
- Domain: Domain name you get in step 3 (myNVR123 in this case)
- Enter the username and password of the device

5. Click **Add**.

Auxiliary Monitor Recovery

If your PC is connected to an auxiliary monitor, you can use it to display a tab (e.g., **Live View**) by dragging the tab to the auxiliary monitor. The tab will remain on the auxiliary monitor when the software restarts.

Multi-Window Display

Drag a tab to open a new window.

Example:

