Video Management Server

Client Software
User Manual

Manual Version: V1.01

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

Notice

CAUTION!

The default password is used for your first login. To ensure account security, please change the password after your first login. You are recommended to set a strong password of no less than eight characters comprising at least three elements of the following four: digits, upper case letters, lower case letters and special characters. For security reasons, access from Internet with weak password will be denied until it is changed to a strong one.

- The contents of this document are subject to change without prior notice. Updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.
- 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 and may vary depending on the version or model. So please see the actual display on your device.
- This manual is a guide for multiple product models and so it is not intended for any specific product.
- 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.
- Use of this document and the subsequent results shall be entirely on the user's own responsibility.

Symbols

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!	Indicates a hazardous situation which, if not avoided, could result in bodily injury or death.
CAUTION!	Indicates a situation which, if not avoided, could result in damage, data loss or malfunction to product.
NOTE!	Means useful or supplemental information about the use of product.

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1 Introduction

The Video Management Server (referred to as VMS hereinafter) is a new generation video management device designed to meet security surveillance needs from small and medium-sized businesses.

The VMS offers three access methods.

Method	Description
Web Manager	Use a Web browser to access the VMS to manage, configure devices and services and perform maintenance operations. Simple video service is available on the Web Manager.
Client Software	Access the VMS through the client software installed on your computer to perform service operations.
Mobile App	Access the VMS through a mobile app for live view, playback and device management.

This manual describes how to use the client software.

2 Install and Upgrade Client Software

The client software runs on Windows PC. Win 7 or Win 8 is recommended.

NOTE!

The PC must run a 32-bit operating system, or a 64-bit operating system compatible with 32-bit software. The client software is not compatible with pure 64-bit operating systems.

Download

Download the setup file from the login page of the Web Manager:

1. Open a Web browser and then enter the VMS' IP address in the address bar, e.g., 192.168.1.60. The login page is displayed.
2. Click the EZVMS Client icon to download the setup file.

Install

Double-click the setup file to start installation. Click **Next** and follow the wizard to complete the installation.

Upgrade

To install the new version in the same directory as the current version, run the setup file of the new version directly. The current version will be uninstalled, and then the new version will be installed automatically.

NOTE!

An upgrade or a reinstall does not restore the admin's password to 123456 (default password).

Uninstall

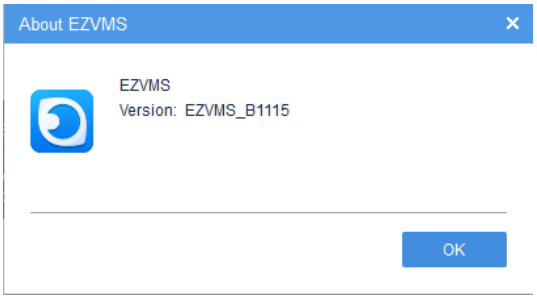
Use the following methods to uninstall:

- Use the uninstall function provided in the control panel of the Windows operating system.
- Double-click the setup file. A dialog box appears. Click **Next**, and then choose the delete option.

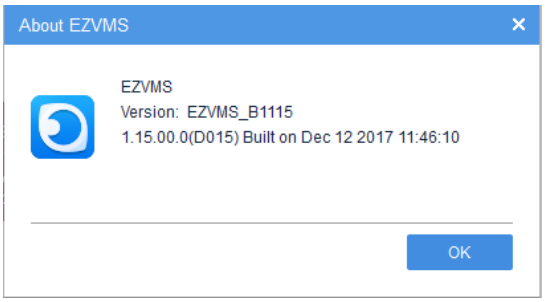
View Version Info

Log in, click

in the upper left corner (see GUI Introduction), and then select **About EZVMS** from the drop-down menu.



Double-click the version to view detailed version info, including internal version and build date.



NOTE!

- The client software downloaded from the login page of the Web manager matches the VMS device version.
- When accessing the VMS using a lower version of client software, you will be prompted to upgrade the client software. You may click to download.
- When accessing the VMS using a higher version of client software, you will be prompted to upgrade the VMS device. You may ignore the prompt and continue to log in, but compatibility issue may occur.

3 Login

The client software provides two login methods:

- Login by IP: You need to enter the IP address, port number, username and password to log in.
- Login by cloud: Log in with a cloud account. You need to sign up for a cloud account at the cloud website and add the VMS to cloud first. No VMS username and password is needed if you log in using this method.

Login by IP

Enter the IP address, port number, username and password of the VMS and then click **Login**.

NOTE!

- The default username/password is admin/123456.
- The default port number is 80. Use the actual port number to log in if it has been changed.
- If you log in with **Save Password** selected, the entered username and password will be remembered and filled in automatically at your next login.
- If you log in with **Auto Login** selected, you will skip the login step at your next login.
- The IP addresses of the VMS that you have successfully logged in are remembered and listed.

Login by Cloud

NOTE!

You need to sign up for a cloud account at https://en.ezcloud.uniview.com and add the VMS before you can log in by cloud. For the detailed steps to sign up for a cloud account, click **Help** in the upper right corner of the web page.

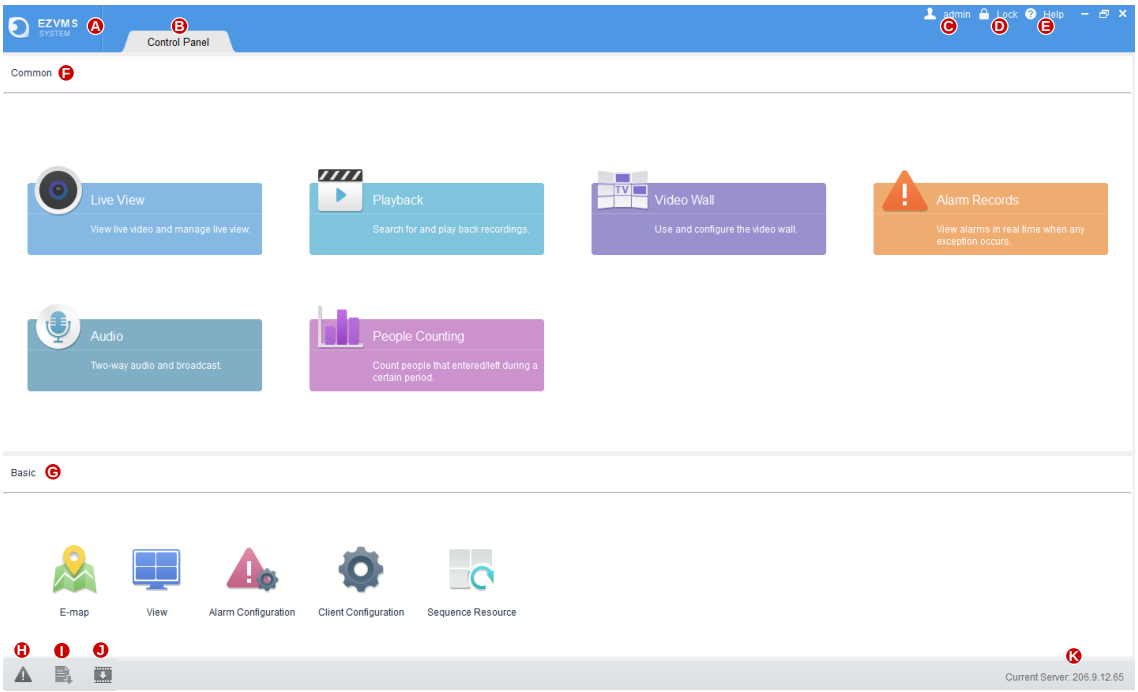
After you have signed up for a cloud account and added the VMS to cloud, follow the steps to log in by cloud:

1. Click **Cloud**.
2. Select **International**.

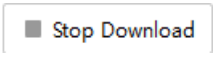
3. Enter your cloud account username and password.
4. Click **Login**.
5. When logged in successfully, a dialog box appears, showing your cloud account name and lists the VMS you have added.
6. (Optional) Click the **Network Detect** button to detect the NAT type of the client (e.g., Port restricted cone NAT).
7. Select one VMS and then click **OK**.

4 GUI Introduction

The main page is displayed after your first login. The main page consists of Control Panel, shortcut menu and some functional buttons.



No.	Description
A	Click to display the pull-down menu. **Note**: The menu items may vary with the roles the user is assigned.
B	The control panel lists icons of functional modules of the software client. Click an icon to open the corresponding page.
C	Current username, for example, admin. To switch account and log in as a different username, click the icon.
D	Click to lock. To unlock, enter the password.
E	Help button. Click to open the user manual for the client software. A PDF reader tool is

No.	Description
	required.
F	Common function area. You may drag an icon to switch position with another icon, or drag it to the basic function area.
G	Basic function area. You may drag an icon to switch position with another icon, or drag it to the common function area.
H	Click to open the latest alarm list and view the latest alarms, including alarm time, alarm source, alarm type, and alarm sound. To enable or disable alarm-triggered live video, select or clear the **Display Link Video** check box. To turn on or off alarm sound, click the alarm sound icon.
I	Task Management button. Click to view recording download tasks, including file name, recording start time and end time, and download progress. The operation column includes icons that you may click to stop download, open folder or delete tasks. To stop a download task, select the task and then click  . To clear completed tasks, click .
J	Search for recordings and download.
K	IP address of the current VMS.

NOTE!

- The functional modules on Control Panel may vary with VMS and software client version.
- The functional modules, organizations and resources displayed and operations allowed on the software client depends on the role(s) a user is assigned. Roles are configured under **Basic** > **User** > **Role** on the Web Manager.

5 Live View

Click the **Live View** icon on **Control Panel**. The **Live View** page is displayed. View live video from cameras and use the toolbar to control live view.

Glossary

- Live view: View live video.
- Video channel: One video channel corresponds to one camera.

- View: A combination of screen layout (such as 4-window) and service (live view or sequence). By saving a view, you can quickly resume service in the set layout by clicking the Play button. For more details, see View Configuration.
- Layout: How many windows to display on the **Live View** page. Up to 64 windows are allowed.
- Fisheye camera: Cameras with super-wide-angle lens.
- History: Last cameras that have been played for live video. Up to 30 cameras are listed.
- Favorites: Add certain cameras (such as the frequently used) to Favorites folders for better management.
- Sequence resource: Specified cameras to play live video on the client in sequence at the set time interval.

Play Live Video

Play live video from online cameras.

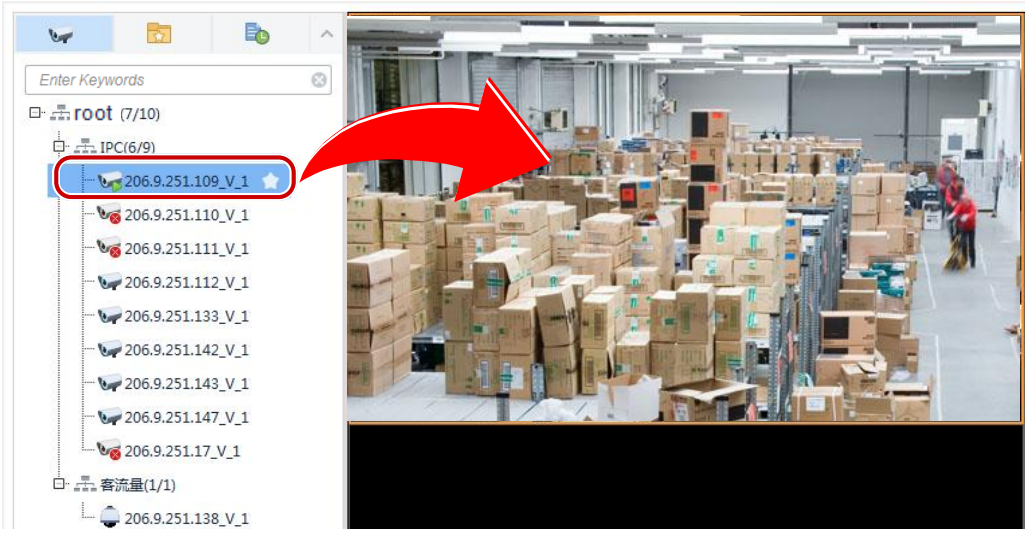
- Online:

- Offline:

The organization tree shows the number of online cameras and the total number of cameras (e.g., 7/10 in the figure below).

Play Live Video from a Camera

Double-click the camera or drag it to a window.



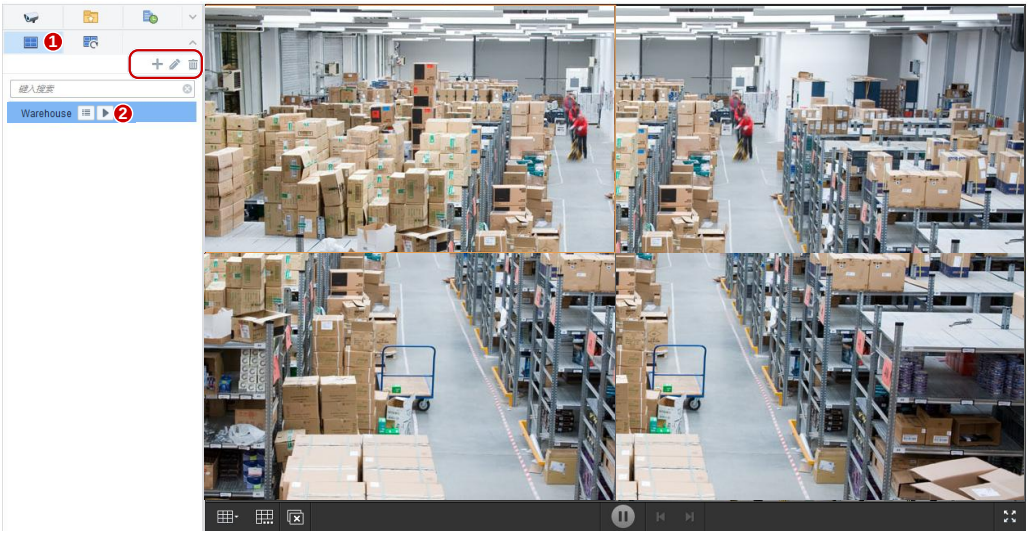
To stop live video, click in the window's upper right corner. Clicking in the toolbar stops live video in all windows.

Play Live Video from Multiple Cameras

For example, to play live video from all the cameras under an NVR, double-click the NVR or drag it to a window.

Play a View

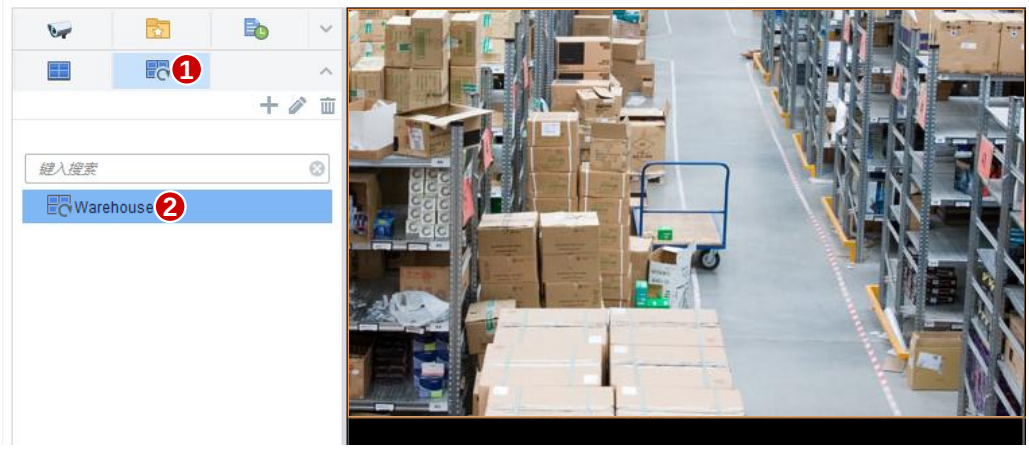
A view is a combination of screen layout (e.g., 4-window display) and service type (live view or sequence). Complete view configuration first (see View Configuration), and then start live video or sequence in the corresponding windows by clicking the Play button.



1. Click the **View** tab ( ).
2. Click the **Play** button ( ) for the view to play.
3. Click , , to add, edit or delete a view.

Play Sequence Resource

Play live video from several cameras in a window in sequence. The cameras switch automatically in the set order at the set time interval. You need to configure sequence resource first (see Sequence Resource).



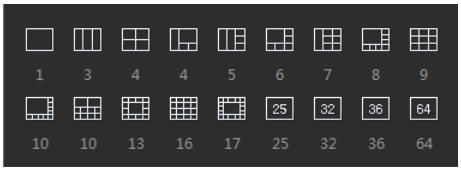
1. Click the **Sequence Resource** tab ( ).
2. Double-click the sequence resource or drag it to a window.
3. Click , , to add, edit or delete a sequence resource.

Live View Operations

Use the live view toolbar, window toolbar, shortcut menu during live view.

Live View Toolbar

The live view toolbar is located at the bottom of the **Live View** page.

No.	Description
A	Click to set screen layout. Up to 64 windows allowed. 
B	Click to save the current view or save as another view.
C	Close video in all windows.
D	Take a snapshot of video playing in all windows. Snapshot mode, snapshot format and save path are configurable (see Client Configuration).
E	Pause/resume sequence.

No.	Description
F	Play the previous camera in a sequence resource.
G	Play the next camera in a sequence resource.
H	Play in full screen or exit. You may also press **Esc** to exit full screen.

Window Toolbar

A window toolbar appears when the pointer rests on the window. The toolbar is effective to the current window only. Buttons on the toolbar may vary with camera. For example, button 2 (PTZ control button) in the toolbar below appears only for a PTZ camera.

No.	Description
0	Take a snapshot and save it to your client computer. The snapshot mode, format and save path are configurable (see *Client Configuration*). A snapshot taken with digital zoom enabled is a composite image of the original image (display on left) and the zoomed-in image (display on right).
1	Local recording (record video to your client computer). Click to stop. The save path is configurable (see Client Configuration).
2	Available to PTZ cameras only. Click to open the PTZ control panel (see PTZ Control). The fisheye icon appears on the toolbar for a fisheye camera only. Clicking the icon will open the fisheye control panel (see Fisheye Control).
3	Digital zoom. Click to enable, drag the mouse to draw an area on the image to zoom in on, and then use the scroll wheel to zoom in or out. Click to disable.
4	Adjust the output sound volume on your client computer or mute.
5	Two-way audio.
6	Instant playback (play video of the last 5 minutes and 30 seconds). • Click to pause or to resume. • To stop playback and resume live video, click . • To stop playback without resuming live video, click the close button in the upper right corner. ***Note:*** • *Before using instant playback, you need to set a recording schedule and make sure the client computer's system time is synchronized with time on the VMS.* • *Live video does not resume automatically when instant playback stops at the end. You need to resume live video manually.*

No.	Description
7	Alarm output control: click to trigger the linked alarm output, and click to clear. The linked alarm output is configured at **Basic** > **Device** > **Link Resource** on the Web Manager.
8	Click to set video settings, including image brightness, saturation, contrast and sharpness. Click **Reset** to restore default settings.
9	Current bit rate and resolution (example).

Shortcut Menu

A shortcut menu appears when you right-click a window in which live video is playing (menu items may vary depending on camera, version, user permissions). Some menus have same functions as the window toolbar (see Window Toolbar).

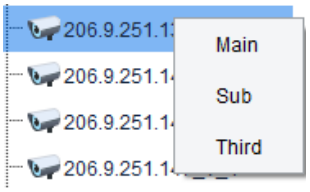
Menu Item	Description
Close	Close video in the current window.
Close All	Close video in all windows.
Display Ratio	Play by scale or stretch.
Maximize	Maximize the current window to the entire display area.
Full Screen	Display in full screen.
Digital Zoom	Enable/disable digital zoom. See on Window Toolbar.
Instant Playback	Start/stop instant playback. See on Window Toolbar.
Two-way Audio	Start/stop two-way audio. See on Window Toolbar.
Stream Type	Choose a stream type to play (main, sub, third, may vary with camera).
Snapshot	Click to take a snapshot. See on Window Toolbar.
Continuous Snapshot	Click to take multiple snapshots. The snapshot mode, snapshot format and save path are configurable (see Client Configuration).
Snapshot All	See on Live View Toolbar.
Local Recording	Start/stop local recording (to client computer). See on Window Toolbar.
Central Recording	Start/stop central recording (to a slave server). Closing the window or logout will also stop central recording. To play back such recordings,

Menu Item	Description
	click the **Center** tab on the Playback page (see Basic Operation in Playback).
Alarm Output Control	See on Window Toolbar.
PTZ Control	See on Window Toolbar. Available to a PTZ camera only.
Video Settings	See on Window Toolbar.
Camera Info	View info such as frame rate, resolution, bit rate, video compression (e.g., H.265) or packet loss rate of the current camera.
Client Configuration	Open the client configuration window. See Client Configuration.

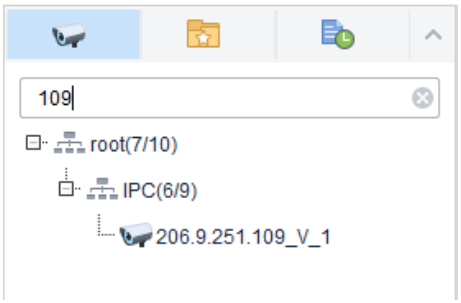
Other Operations

The following introduces some useful operations during live view.

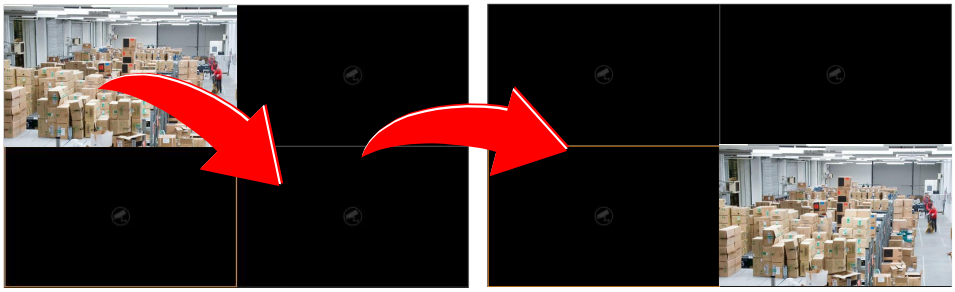
- Right-click a camera to select a stream type (main, sub, third; may vary with camera).



- Search with keyword. Enter a keyword in the field, e.g., 109.

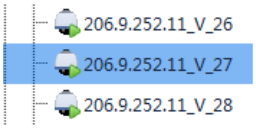


- Drag image to switch windows, for example, drag image from window 1 to window 4. If window 4 is also playing, then window 1 will play the image in window 4.



- Double-click a window to maximize. Double-click again to restore.

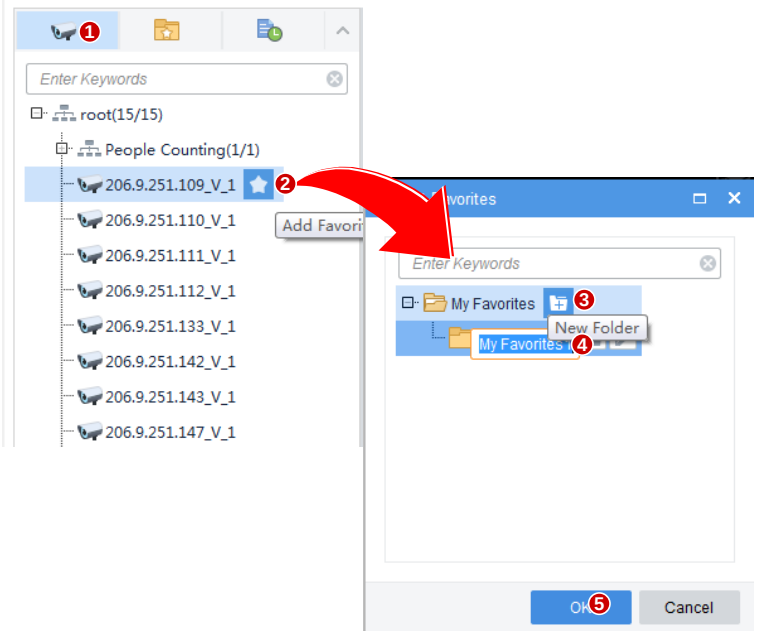
- View the name of the camera that is playing in a window: hover the pointer on the window and the camera name appears.
- Click a window, and the corresponding camera is highlighted on the camera list.



Favorites

Add cameras to Favorites folders as needed. A camera belongs to one Favorites folder only.

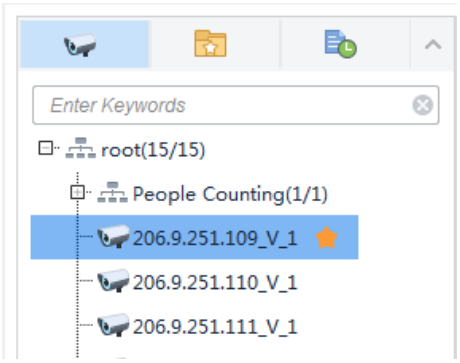
Add Favorites



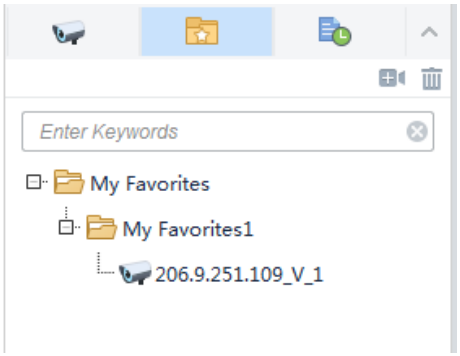
1. Click the **Video Channel** tab ( ).
2. Click the **Add Favorites** button ( ). To add to **My Favorites**, click to select the **My Favorites** folder and then click **OK**.
3. To create a Favorites folder, click the **New Folder** button.

4. Enter a folder name.
5. Click **OK**.

When added successfully, appears when the pointer hovers over the camera.



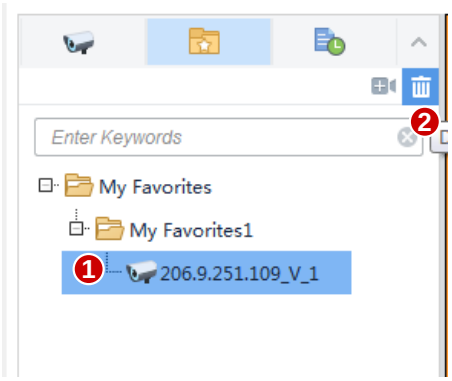
You will also find the new Favorites folder with the camera on the **Favorites** tab.



Delete Favorite

To delete a camera from a Favorites folder:

- On the **Video Channel** tab, click **Delete Favorite** button ( ).
- On the **Favorites** tab, click to select the camera, and then click the **Delete** button ( ).



View Live Video

To view live video from a camera in a Favorites folder:

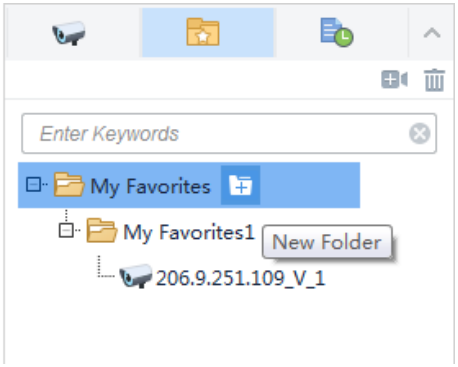
- Double-click the camera or drag it to a window.

- Double-click the Favorites folder to play all the cameras in the folder.

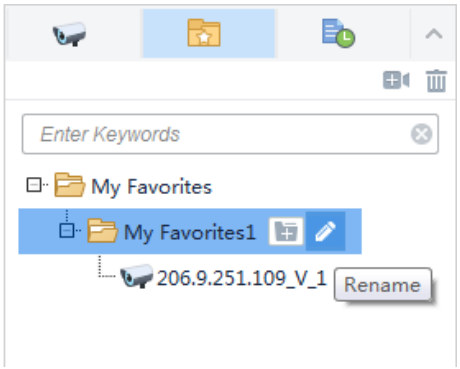
Manage Favorites Folder

Manage Favorites folders and cameras on the **Favorites** tab: create, delete, rename Favorites folders, add or delete cameras.

- To create a Favorites folder: Click the **New Folder** button ( ).

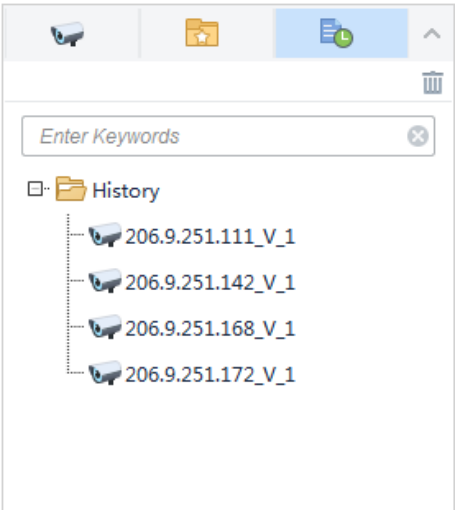


- To delete a Favorites folder: Click to select the Favorites folder and then click the **Delete** button ( ). Deleting a Favorites folder also deletes all the cameras in it.
- To rename a Favorites folder: Click to select the Favorites folder and then click the **Rename** button ( ). The root folder (My Favorites) cannot be renamed.



History

Click the **History** tab ( ) to view the last cameras (up to 30) played for live view (not including view and sequence).



Double-clicking a camera or dragging it to a window will start live video from it. Clicking the **Clear History** button ( ) will clear the history.

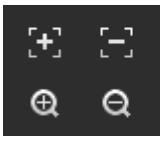
PTZ Control

Control the surveillance direction, focus and zoom of PTZ cameras.

PTZ control is only available to a PTZ dome camera or a camera mounted on a pan/tilt motor that supports PTZ control. The actual functionality depends on the functions of the camera and the PTZ control protocol.

Click on the window toolbar to open the PTZ control panel. The panel expands and collapses with a click on the arrow at the bottom.

Some PTZ control functions are described in the table below.

Tool	Description
	Control rotation directions or stop rotation. ***Note:*** *You may also use the mouse to change the surveillance direction in the live view window: move the pointer toward the side of the window you want to view; when the pointer changes shape ( ), click the mouse button to move, or press and hold the mouse button to keep moving. The camera will rotate in that direction. Release the button to stop.*
	Adjust focus and zoom. ***Note:*** *Alternatively, click anywhere on the image and then use the scroll wheel to zoom in or out.*
	Adjust rotation speed.
	When 3D positioning is enabled, the PTZ rotates to the direction you

Tool	Description
	click on the screen. Drag the mouse to zoom in or out on the image.
	Set presets: • : Click to add a preset. • : Click to go to a preset. • : Click to delete a preset. ***Note:*** *Use an unused preset number when adding a new preset; otherwise, the existing preset will be replaced.*
	Set patrol, including preset patrol and recorded patrol. • Preset patrol: The camera automatically moves in the order of presets repeatedly at the set time interval. Click to add: in the **Add Patrol** dialog box, click **Add**, select a preset from the drop-down list (or click **New Preset** to add) and set a stay time. Repeat the above steps to add all presets to include, and then adjust the order of presets as needed. After creating a preset patrol, you may click to edit a preset patrol. • Recorded patrol: The camera moves along the recorded route. Click to start recording. Rotate the camera to the intended directions and stay for the desired length of time. Click to stop recording. To start recorded patrol, select from the drop-down list and then click to start. ***Note:*** • *A preset patrol includes up to 32 presets; a PTZ camera allows up to 15 preset patrol routes.* • *Currently only one recorded patrol route is allowed.*
	Set auto guard. When enabled and configured, the camera automatically executes the preset action, e.g., go to a preset or start patrol, if no patrol or other action is performed within the set time.

Fisheye Control

A fisheye control icon ( ) appears in the window toolbar when the camera is a fisheye. Click the icon or use the shortcut menu to open the fisheye control panel.

Choose the correct mounting mode for the fisheye camera: ceiling, wall or desktop, and then display modes appear, e.g., 360° Panoramic, 180° Panoramic, Fisheye, PTZ (appears when the pointer rests on it). Display modes and operations supported vary with mounting mode.

On a PTZ image, you may drag the mouse to rotate the image or use the scroll wheel to zoom in or out. A block appears on fisheye or panoramic image as the image rotates, and as you drag the box or move the scroll wheel on the fisheye image, the corresponding PTZ image rotates or zooms in or out as well.

6 Playback

Click the **Playback** icon on **Control Panel**. The **Playback** page is displayed. Search and play recordings saved on a slave VMS or on an NVR.

Glossary

- Video channel: One video channel corresponds to one camera.
- Center: Source of recording, means recordings saved on a slave VMS.
- Device: Source of recording, means recordings saved on an NVR.
- Backup: Recordings that are automatically replicated from NVR to a slave VMS according the set schedule. Backup recording only supports normal recording playback mode.
- Playback types: Includes normal recording playback, tagged recording playback, locked recording playback, event recording playback, and smart recording playback. Choose from the drop-down list in the upper left corner on the **Playback** page.
- Favorites: Add cameras to different Favorites folders as needed.
- Lock: Lock important recordings to prevent them from being overwritten when storage space is used up.
- Tag: Tag recordings to mark certain events, and then use tags to find needed recordings quickly.
- Play to Video Wall: Play recordings on the video wall.

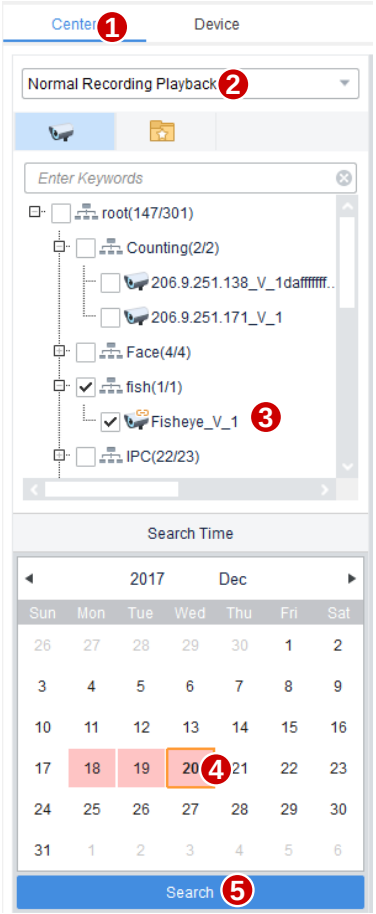
Function Description

The software client offers multiple playback modes to meet different needs. The playback mode supported, functions available, and operations allowed may vary depending on the source of recording. For example, backup recording only supports normal recording playback.

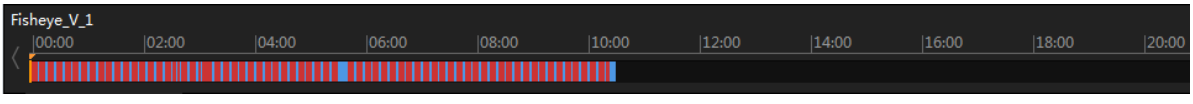
Mode	Description
Normal recording playback	Search results in this mode include all recording types (scheduled, manual, event).
Tagged recording playback	Use tags to find needed recordings quickly. Available to center recordings (recordings saved on a slave VMS) only.
Locked recording playback	Search and play locked recordings. Available to center recording only.
Event recording playback	Search and play recordings triggered by an event (such as motion detection).
Smart recording playback	Search recordings for smart search results (such as motion) and playback.

Normal Recording Playback

Basic Operation



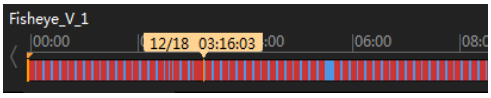
1. Choose the video source: Center or Device.
2. Select playback mode: **Normal Recording Playback**.
3. Select cameras (up to 16). The calendar shows recording status: blue means normal recording, red means event recording, and white means no recording.
4. Select a date with recordings.
5. Click **Search**. Search results appear on the timeline and the **Recording** list on the right. Different recording types are shown with different colors on the timeline: blue for normal (scheduled), and red for event (alarm).



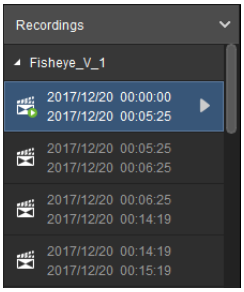
NOTE!

For center recordings (recordings saved on a slave VMS), if search results include locked or tagged recordings, they will also be shown on the timeline and the list on the right. See Create tags and Lock recording.

6. When the pointer hovers on the timeline, the corresponding time appears. Click anywhere on the timeline, video starts playing from that point.

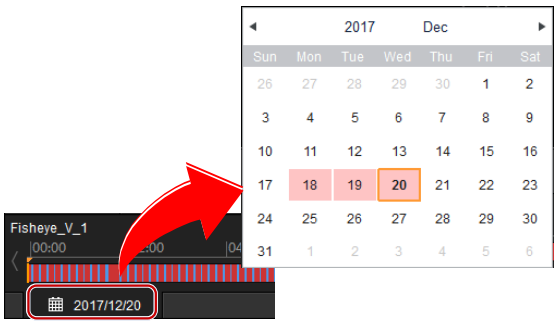


7. On the **Recording** list on the right, double-click a file to play, or click the play button ( ).



Other Operations

Search and play recordings of another date for the camera playing in the current window

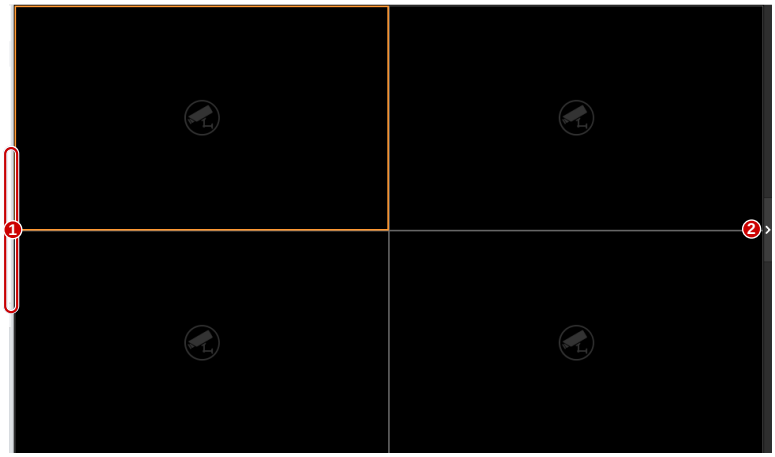


Click the calendar icon and then select a date. Search results play automatically; no need to select cameras and click **Search** again.

Search and play in other window(s)

1. Click to select another window. Note: If you do not select another window, search results will play starting from the current window.
2. Repeat the steps in Basic Operation.

Adjust the width of the playing area

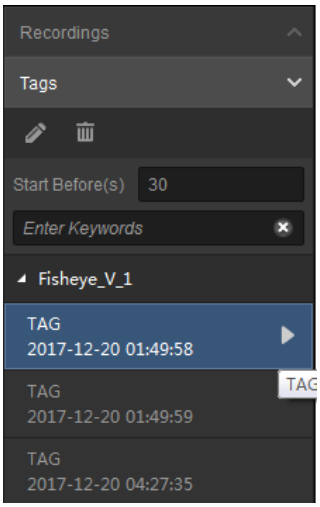


- Place the pointer on the left boarder (such as 1). When the pointer changes shape, drag the border left or right to adjust the width of the playing area.
- Click the button (2) to hide/expand the file list.

Create tags

This function is available to center recordings only. Create tags to mark certain time points on a recording, and then use Tagged Recording Playback to search and play tagged videos. Device recordings (video recorded on an NVR) do not support this function.

- Click to create a default tag quickly without pausing playback. All default tags are saved automatically as TAG.
- Click to create a tag with a custom name. Playback pauses when you create a custom tag and resumes when the tag is created.
- The white lines on the timeline indicates the created tags ( )
- On the **Tags** list on the right, double-click a file to play, or click the play button ( ).



- Click to rename the tag; click to delete a tag.
- By default, a tagged recording starts 30 seconds before the tag time. You may change the setting in the **Start Before(s)** field.

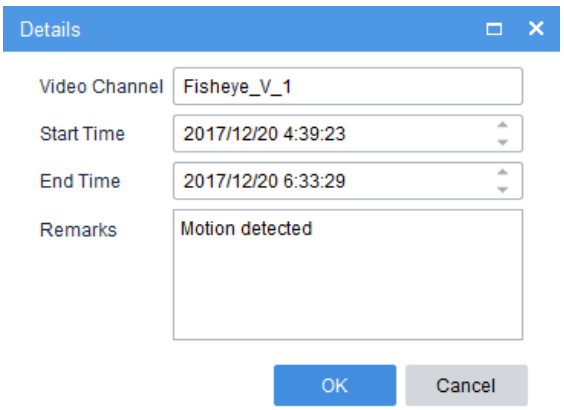
NOTE!

A custom tag created during synchronous playback is created for all the recordings that are playing.

Lock recording

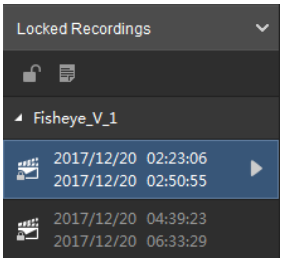
This function is available to center recordings (video stored on a slave VMS) only. Lock important recordings to prevent them from being overwritten when storage space is used up, and use Locked Recording Playback to search and play locked videos. Device recordings (videos that are saved on an NVR) do not support this function.

- Click to specify the start of the recording to lock, and click to specify the end.
- Set times precisely in the dialog box and enter a description (e.g., reason for locking the recording).



- A lock icon appears at the start position of the locked recording. Click the lock icon, the locked recording is highlighted with red, and the corresponding file is also highlighted on the **Locked Recordings** list on the right. The remarks (e.g., Motion detection) also appear when the pointer hovers on the lock icon.

- In the **Locked Recordings** list on the right, double-click a file to play, or click the play button ( ).



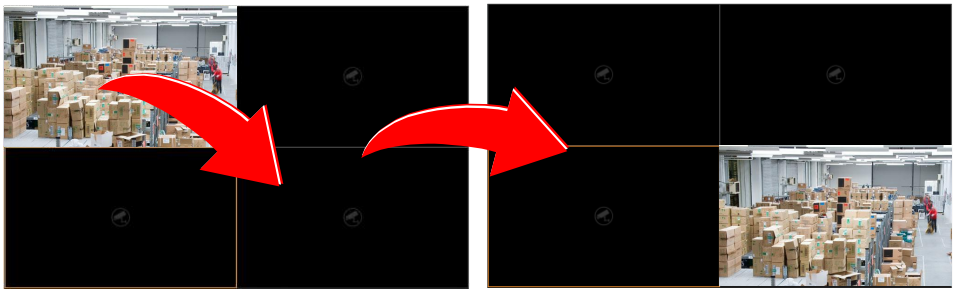
- Click to unlock (unlocked recording is not protected); click to view details about a locked recording.
- Search and play locked recordings (see Locked Recording Playback).
- Download recording (see Recording Download).

Double-click a window to maximize

Double-click again to restore.

Drag image to switch window

See the figure below: drag the image from window 1 to window 4. If window 4 is also playing, then window 1 will play the image in window 4.



Add to Favorites

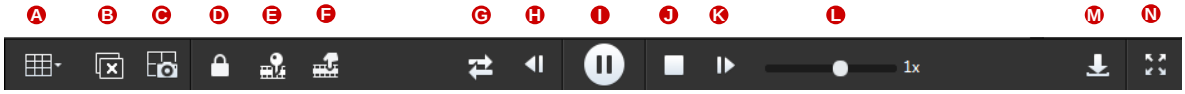
Add cameras to different Favorites folders as needed. See Favorites in Live View for reference. Some operations are similar.

Playback Control

Use the playback toolbar, window toolbar and shortcut menu during playback.

Playback toolbar

Playback control is effective only to the currently selected window when multiple windows are playing.



No.	Description
A	Set screen layout.
B	Close all windows.
C	Take a snapshot of video playing in all windows. The snapshot mode, format and save path are configurable (see Client Configuration).
D	Lock recording (center recording only)
E/F	Create tags (center recording only), including default tag and custom tag.
G	Normal playback or synchronous playback. • Normal playback: Search results play automatically. • Synchronous playback: Play recordings synchronously in all windows. If other windows are playing, playback starts automatically for the current camera; otherwise, you need to start playback by clicking the play button.
H/K	Rewind by frame and forward by frame. Click repeatedly to view the last/next frame of images. ***Note:*** • *The buttons are grayed out in synchronous playback mode.* • *The play button is in pause status when you are playing by frame. Click the **Playback** button to resume normal playback.*
I/J	Pause/resume, stop playback.
L	Adjust playback speed. Multiple options. + means play forward, - means play backward.
M	Download recording (see Recording Download).
N	Switch to or exit full screen. You may also press Esc to exit full screen.

Window toolbar

After playback starts, a toolbar appears when the pointer rests anywhere on the window. The toolbar is effective to the current window only.

No.	Description
1	Take a snapshot and save it to your client computer. The snapshot mode, format and save path are configurable (see Client Configuration).

No.	Description
	A snapshot taken with digital zoom enabled is a composite image of the original image (display on left) and the zoomed-in image (display on right).
2	Digital zoom. Click to enable, drag the mouse to draw an area on the image to zoom in on, and then use the scroll wheel to zoom in or out. Click to disable digital zoom.
3	Clip video to download: Click , click on the timeline to locate the end, and then click . You may set times precisely in the dialog box.
4	Adjust output sound volume on your client computer.
5	Current bit rate and resolution.

NOTE!

- The fisheye icon appears for a fisheye camera only. Clicking the icon will open the fisheye control panel (see Fisheye Control).
- During playback, you may set the video transmission protocol in accordance with network performance to improve image quality.

Shortcut menu

After playback starts, a shortcut menu appears with a right-click on the window.

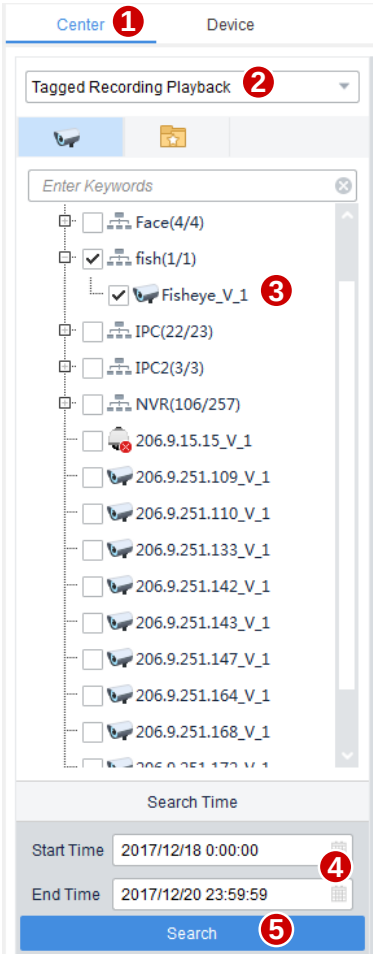
Menu Item	Description
Close	Close video in the current window.
Display Ratio	Play by scale or stretch.
Digital Zoom	Enable/disable digital zoom. See on Window toolbar.
Play To Video Wall	See Play Recording on Video Wall.
Snapshot	Click to take a snapshot. See on Window toolbar.
Continuous Snapshot	Click to take multiple snapshots. The snapshot mode, snapshot format and save path are configurable (see Client Configuration).
Snapshot All	See on Playback toolbar.
Start Clipping	Start/stop local recording (to your client computer). See on Window toolbar.
Download	Download recordings (see Recording Download).

Tagged Recording Playback

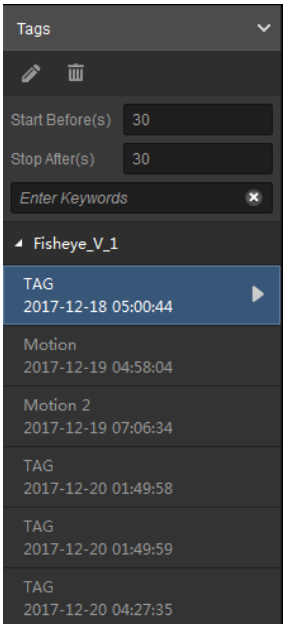
Search and play tagged recordings.

NOTE!

- Only center recording (recordings saved on a slave VMS) supports this function.
- To create tags, see Create tags.



1. Choose the video source: Center.
2. Select playback mode: **Tagged Recording Playback**.
3. Select cameras (up to 16).
4. Set the search time (up to 1 week).
5. Click **Search**.
6. On the **Tags** list on the right, double-click a file to play, or click the play button ( ).



NOTE!

- The length of a tagged recording depends on **Start Before(s)** and **Stop After(s)**, which set the length of time before and after the tag time. The default settings are 30 seconds for both, which means by default a tagged recording is 1 minute long.
- Playback stops at the end of a tagged recording. You need to play the next manually.
- You may click to edit a tag name, or click to delete a tag.

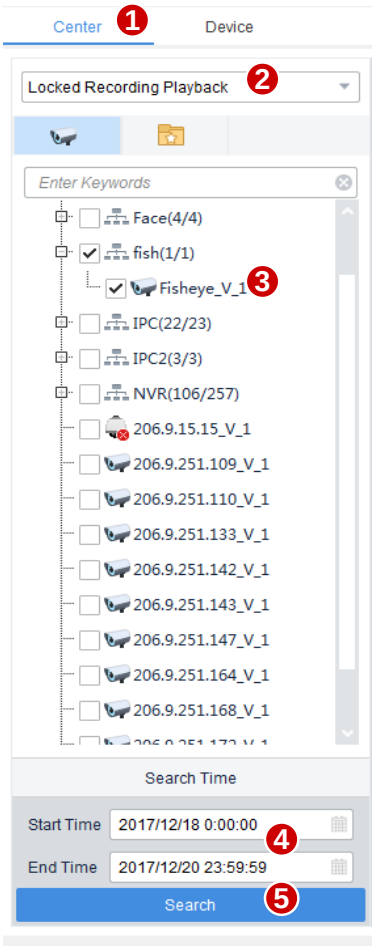
7. Use the playback toolbar, window toolbar or shortcut menu as needed. See Other Operations and Playback Control.

Locked Recording Playback

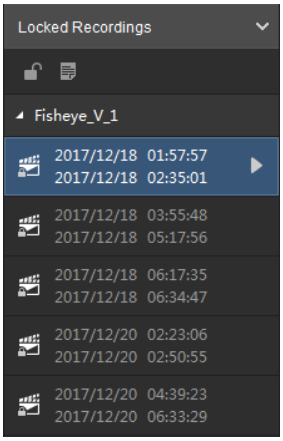
Search and play recordings saved on a slave VMS.

NOTE!

- Only center recording (recordings saved on a slave VMS) supports this function.
- To lock recordings, see Lock recording.



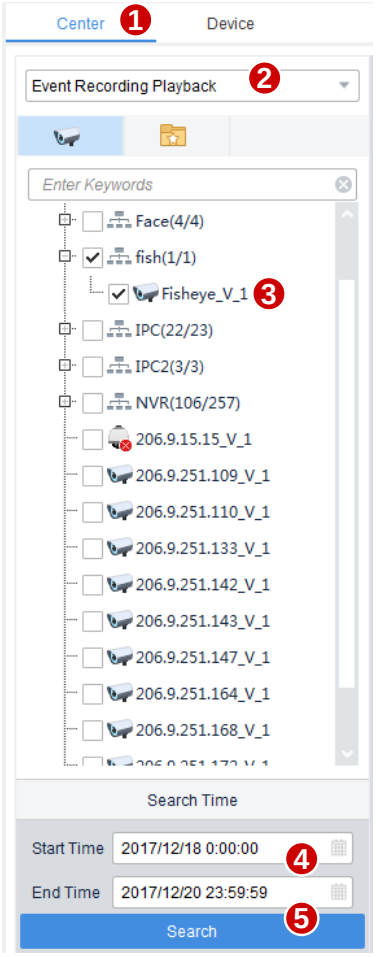
1. Choose the video source: Center.
2. Select playback mode: **Locked Recording Playback**.
3. Select cameras (up to 16).
4. Set the search time (up to 1 week).
5. Click **Search**.
6. On the **Locked Recordings** list on the right, double-click a file to play, or click the play button ( ).



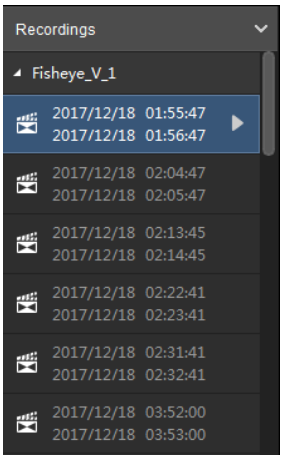
7. Click to unlock; click to view details of a locked recording.
8. Use the playback toolbar, window toolbar or shortcut menu as needed. See Other Operations and Playback Control.

Event Recording Playback

Search and play event recordings such as recordings triggered by motion detection.



1. Choose the video source: Center or Device.
2. Select playback mode: **Event Recording Playback**.
3. Select cameras (up to 16).
4. Set the search time (up to 1 week).
5. Click **Search**.
6. On the **Recordings** list on the right, double-click a file to play, or click the play button ( ).



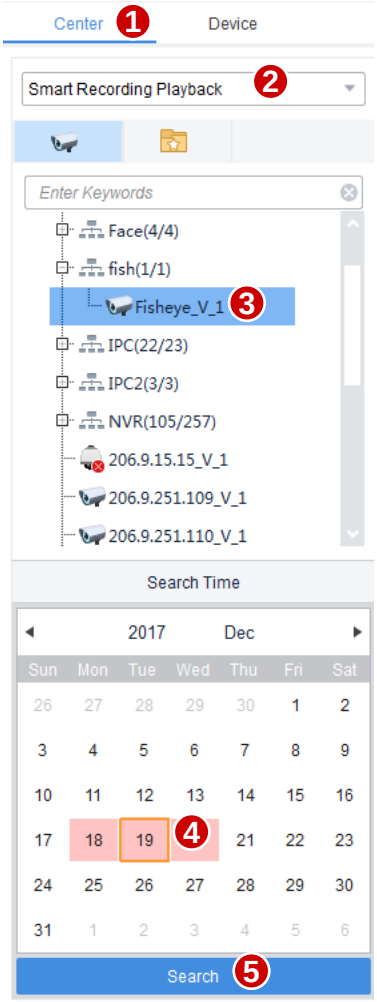
7. Use the playback toolbar, window toolbar or shortcut menu as needed. See Other Operations and Playback Control.

Smart Recording Playback

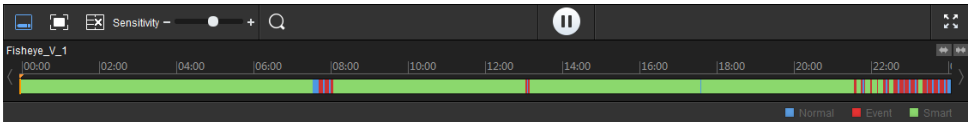
Search recordings for smart search results (such as motion) and playback.

NOTE!

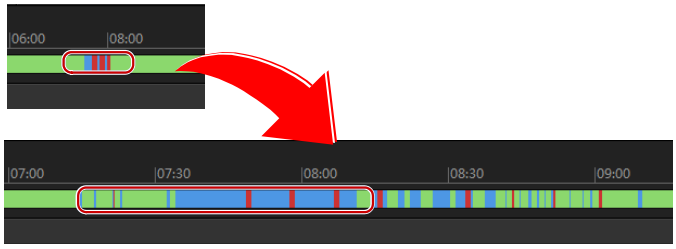
- This function requires the camera's support.
- For device recordings (video stored on NVR), this function is available to certain NVR versions only.
- Smart search results cannot be played on a video wall.



1. Choose the video source: Center or Device.
2. Select playback mode: **Smart Recording Playback**.
3. Select a camera. The calendar shows recording status: blue means normal recording, red means event recording, and white means no recording.
4. Set a date with recordings.
5. Click **Search**. Search results appear on the timeline. Green means smart search results.
6. On the **Recordings** list on the right, double-click a file to play, or click the play button ( ).



7. Click / to zoom in or out on the time line scale. For example, zoom in to clearly view recording types. Click / at the two ends of the timeline to move forward or backward.



NOTE!

The area covered by red grid is the smart search area, which covers the full screen by default. You may draw on the screen to edit the area.

1) Edit the smart search area: click , press and hold the left button to draw areas as needed. Click to clear all; click to restore full screen. Click to finish drawing. The red grid on the screen disappears.
2) Adjust search sensitivity. The higher the sensitivity, the more likely that tiny motion activity will be detected.
3) After the settings are completed, click to start searching. Search results appear on the timeline automatically.

- Video containing smart results (such as motion) play at normal speed; other parts play at high speed to save time.
- The changed smart search settings (search area and sensitivity) will be saved and apply to other cameras; but the smart search area automatically restores to full screen when you close the **Playback** page or log out of the system.

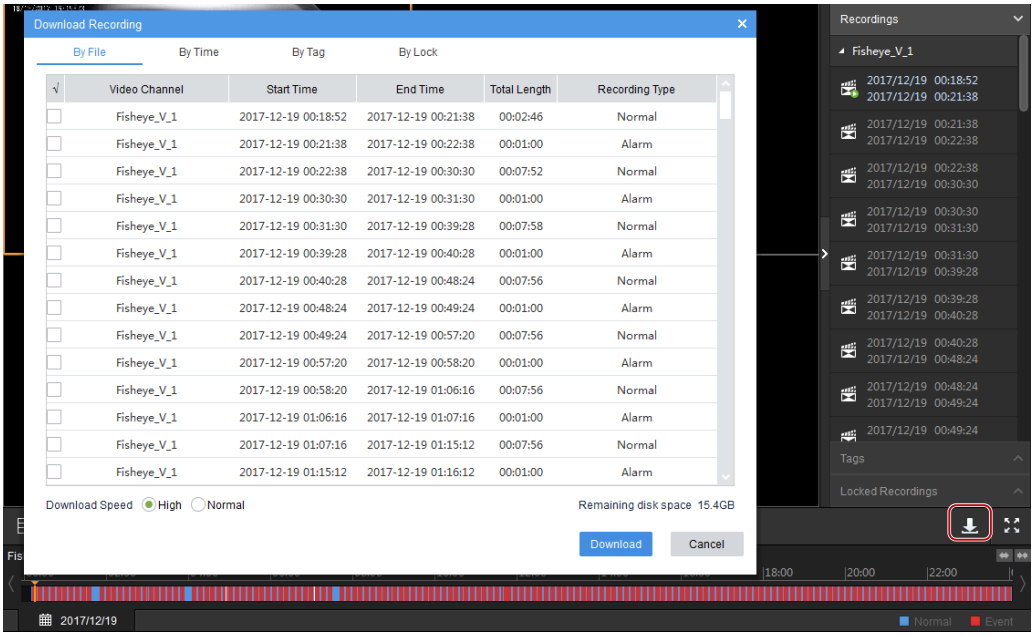
NOTE!

If more than one user uses smart playback on different clients at the same time, the operation performed last determines smart search results. Smart search results and playback speed may be inconsistent on other clients.

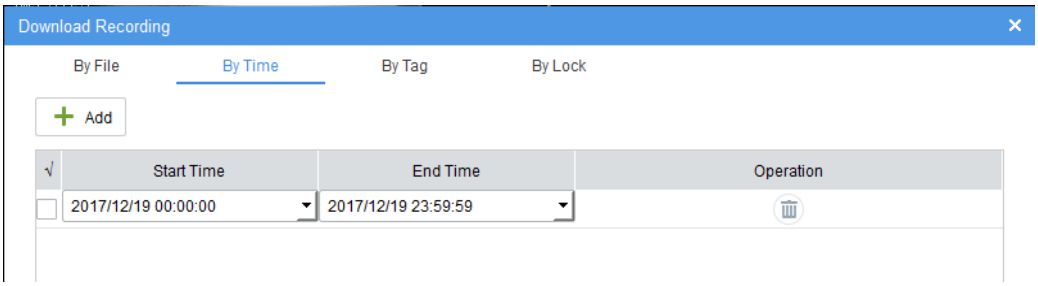
Recording Download

Use the following methods to download recordings to your computer. The path is set at Client Configuration (**Audio & Video** > **Recording**).

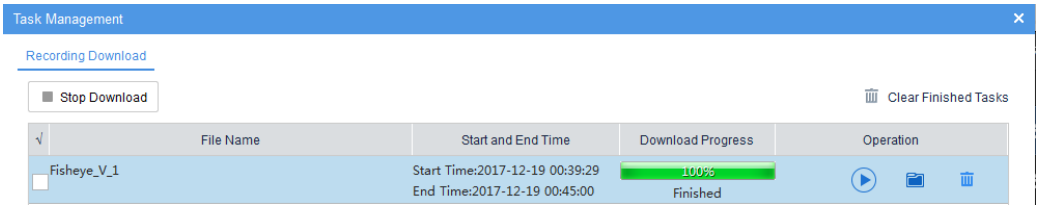
- After a search, click the download button ( ) on the playback toolbar. The **Download Recording** dialog box appears.



Select the file(s) to download or click √ to select all. Click **Download**.



Click **By Time** to set start and end times precisely (must be earlier than the current time). Click **Add** to add more download tasks.



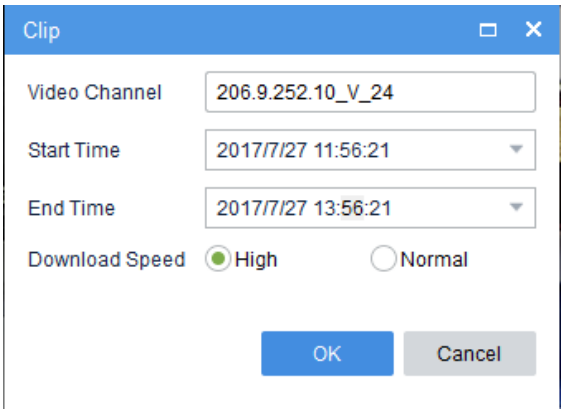
Click the **Task Management** button (see GUI Introduction) to view download progress, stop download, play a downloaded recording, open the recording folder, or to delete a download task. Deleting a download task will not delete the recording that has been downloaded; and closing the **Task Management** dialog box will not affect download tasks.

NOTE!

You may click **By Tag** or **By Lock** to download tagged or locked recordings if there are any.

- Click the **Recording Download** button (see GUI Introduction) to search for and download recordings.

- During playback, use **Start Clipping** ( ) and **Stop Clipping** ( ) on the window toolbar to clip the video you want to download. Click to set the start point; click on the timeline to set the end point, and then click . Set start and end times precisely in the dialog box.



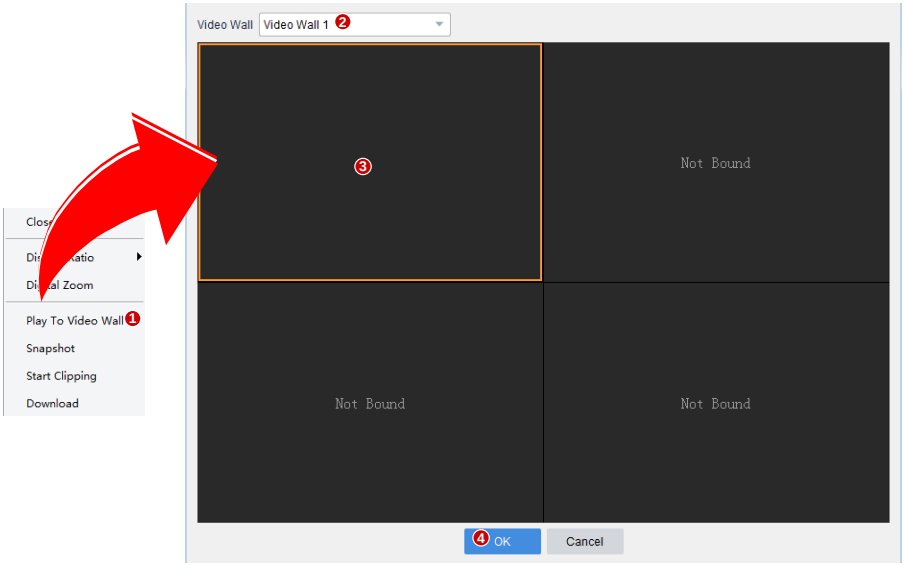
- During playback, click **Start Clipping** and **Stop Clipping** on the shortcut menu that appears when you right-click the window (similar to clicking and).
- During playback, click **Download** on the shortcut menu that appears when you right-click the window (similar to clicking).

Play Recording on Video Wall

Play recording on a video wall.

NOTE!

- This function is not available in smart recording playback mode.
- You need to complete video wall configuration first (see).



1. Right-click the window during playback, and select **Play To Video Wall**.
2. Select the video wall.
3. Click to select the screen. The screen should have been bound to a decoding channel.
4. Click **OK**.
5. When video starts on the video wall, appears in the top right corner of the video wall screen on the **Video Wall** page.

7 E-map

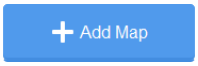
Click the **E-map** icon on **Control Panel**. The **E-map** page is displayed. Custom maps and add surveillance resources such as hot spots on the map to improve efficiency.

Glossary

- Hot spot: refers to video channel (camera) and alarm input that are added on the map. If a hot spot is a camera, you may double-click the icon to view live video, or right-click the icon and then choose from the shortcut menu to view live or recorded video.
- Hot zone: A map on a map. A hot zone appears as an icon with a custom name and color. You may double-click a hot zone icon to open the map and add hot spots on it.
- Map resources: including map, hot zones and hot spots.

Map Configuration

Add a Map

For first time use, click 

to add pictures. On the **Edit Map** tab, you may:

- Click **Picture Management** to add or delete pictures. See Picture Management for details.
- Add hot spots, including cameras and alarm inputs. See Add a Hot Spot for details.
- Add hot zones: Add maps on the map. A hot zone is displayed as an icon on the map and opens with a double-click. See Add a Hot Zone for details.

Picture Management

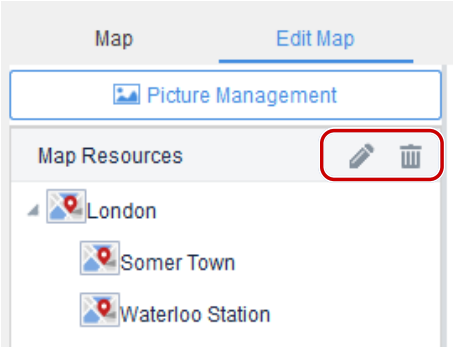
Click

to add pictures. Up to 40 pictures (JPG, PNG and BMP formats) are allowed.

NOTE!

Added pictures are uploaded to the VMS server. Only pictures added as hot zones will be displayed as map resources in the **Map Resources** list.

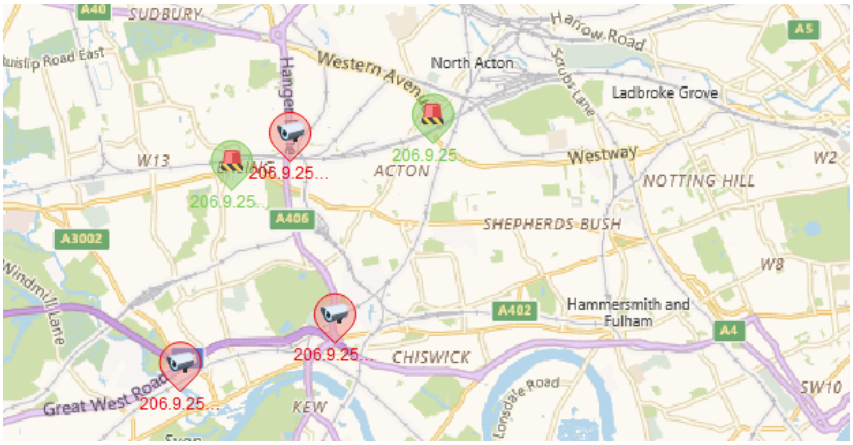
Click to edit or delete map resources.



Add a Hot Spot

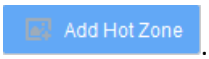
Add hot spots so you can quickly locate them on the map when any event occurs. Hot spots include cameras and alarm inputs.

1. Click the **Video** tab ( ).
2. Drag the camera to the intended location on the map. You may right-click the icon to change its color.
3. Click the **Alarm Input** tab ( ) to add alarm inputs in the same way.
4. Click the **Map** tab to view the added hot spots.



Add a Hot Zone

Add a map on the map as a hot zone. The hot zone is displayed as an icon on the map and opens with a double-click.

1. Click 

.
2. Select a picture for the hot zone and then click the **Add** button.
3. The hot zone appears on the map and the **Map Resources** list on the left.
4. Drag the hot zone icon to the intended location on the map.
5. Right-click the icon to change the color if necessary.

6. To edit or delete the hot zone, click to select it and then click

or

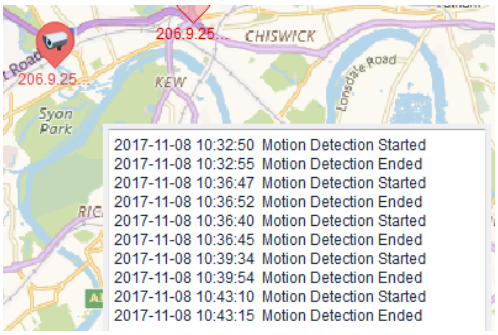
.

Map Operations

Perform the following operations on the **Map** tab after operations are completed on the **Edit** tab:

- Live view: View live video from a camera by double-clicking the camera icon on the map. Up to four cameras can be played at the same time. You may also right-click the icon and select **Live View** from the shortcut menu.

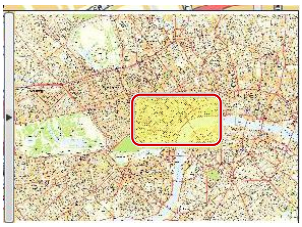
- Playback: Search and play recorded video of a camera. Right-click the hot spot icon and select **Playback** (see Playback).
- View alarm info: The hot spot flashes on the map when an alarm occurs. Right-click the icon and select **Show Alarm Info** to view alarm information.



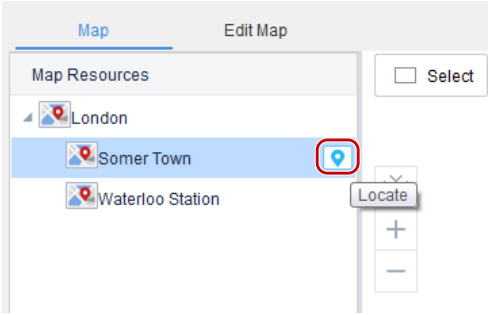
- Clear alarm: Right-click the icon and select **Clear Alarm**.
- Filter hot spots: Select

to show certain type(s) of hot spots on the map.
- Select hot spots or hot zones: Click

and drag the mouse to specify an area on the map. A dialog box appears, listing all the hot spots and hot zones in the area. Click **Live View** or **Playback** as needed. Live video is supported for up to four cameras at the same time.
- Zoom in or out on the map: Click or (or use scroll wheel) to zoom in or out. Click to restore the original size. When zoomed in, you may drag the highlighted area in the small window (in the lower right corner) to locate on the main map.



- Locate hot spot or zone on map: click . The hot spot or zone icon is located on the map highlighted.



8 Video Wall

Click the **Video Wall** icon on **Control Panel**. The **Video Wall** page is displayed. After configuration is complete on the software client, video can play on physical screens on a video wall, including live view, playback and sequence.

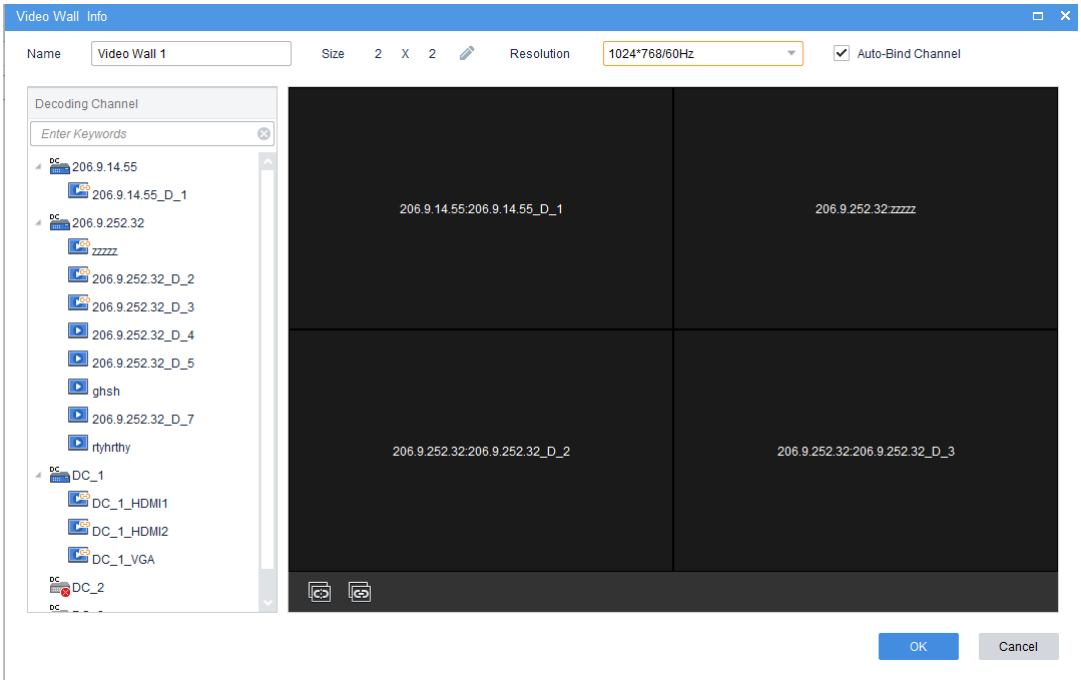
Glossary

- Video wall: Also known as video display wall, refers to a multi-monitor setup that consists of multiple computer monitors or display devices (e.g., LCD panel) tiled together to form one large screen to display a single continuous image. By binding video wall screens to decoding channels, digital signals from encoding devices are converted into analog signals and displayed on video wall screens.
- DC video wall: Video wall created by binding decoding channel(s) of a decoding device.
- Decoding channel: Output port of a decoding device.
- Video channel: One video channel corresponds to one camera.
- Bind: Establish association between a video wall screen and a decoding channel.
- Screen: A physical screen on the video wall, which corresponds to a window on the client software. For easier understanding, window is also referred to as screen in this chapter. A screen can be split into multiple screens (or windows). The number of screens configured on the client must match that on the physical video wall.
- Play on Screen: Play video or sequence resource on a specified video wall screen.
- Play on Wall: Play video or sequence resource on video wall screens.
- Splice: Merge multiple video wall screens to one bigger screen.
- Scene: By saving certain video wall settings including screen, window and service (live view or sequence) as a scene you can quickly restore service with one click of the button without redoing the configuration.

Add a Video Wall

1. For first time use, click

and then choose a video wall type; otherwise, click right to a video wall name.
2. Complete the basic settings including video wall name and size. Make sure the video wall size is consistent with the physical video wall.
3. By default **Auto-Bind Channel** is selected. The software automatically binds decoding channels to screens based on the resolution you set. You can edit the binding (drag decoding channel to screen). The following illustration takes DC video wall as an example.



TIP!

- Decoding channels that are bound successfully are displayed as on the decoding channel list, and the decoding channel name appears at the screen center; Not Bound is displayed on screens that are not bound to any decoding channels. To cancel binding for a screen, click the close button in the screen's top right corner. To cancel all bindings, click . Click to bind all.
- You can drag a screen to switch decoding channel with another screen.

Video Wall Operations

NOTE!

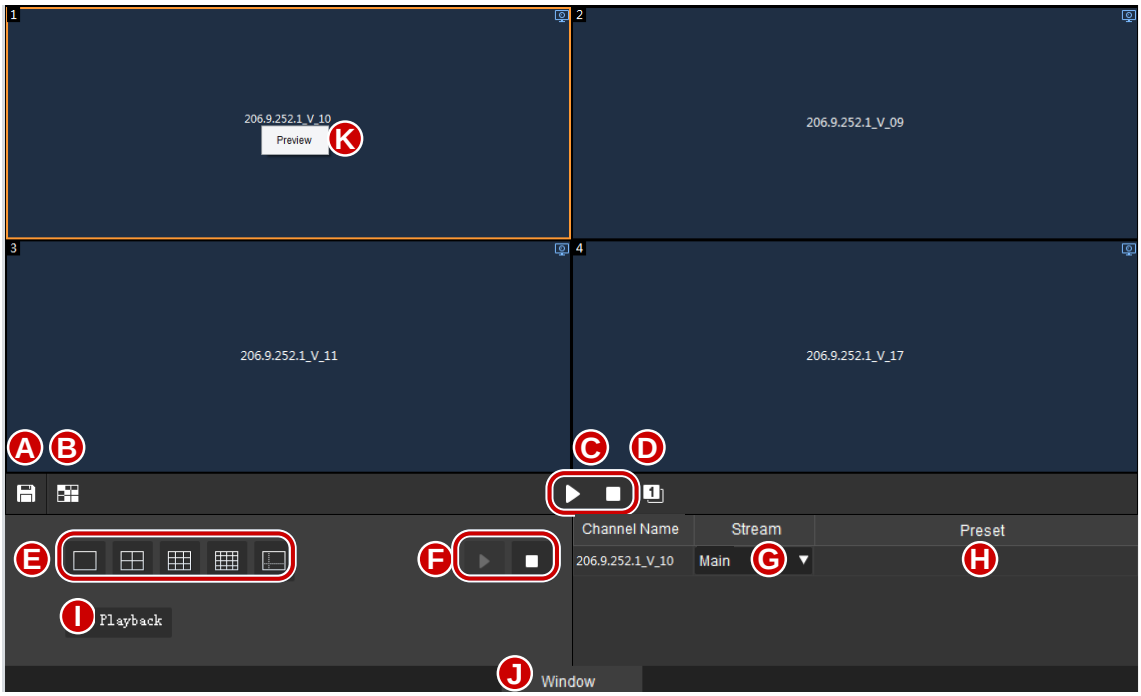
- The following descriptions are not intended for a specific video wall type.
- The actual operations allowed and functions available may vary depending on the decoding device.

Play Live Video on Video Wall

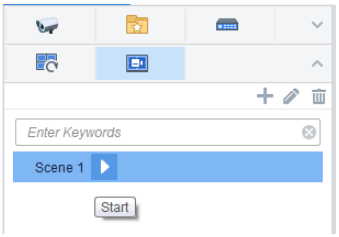
1. Drag cameras to intended windows one by one; or select multiple cameras and drag at a time.

TIP!

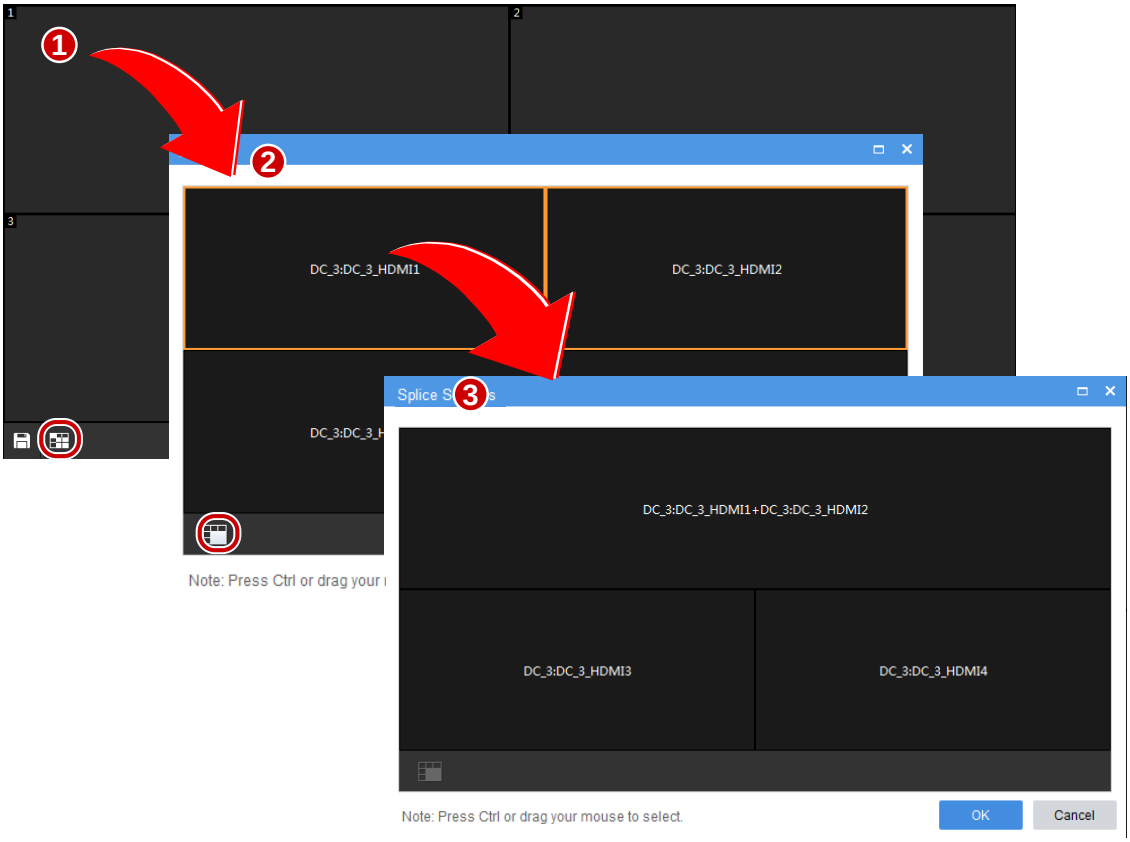
When live video starts on the video wall, the screen color changes, appears in the screen's top right corner, and the camera name appears at the screen center.



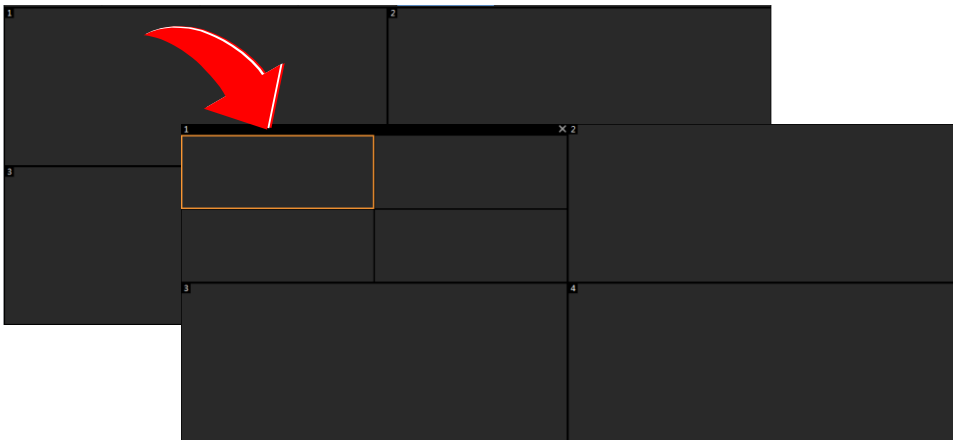
- A: Save current video wall settings as a scene. With one click of in the scene list you can resume the service without redoing the configuration.



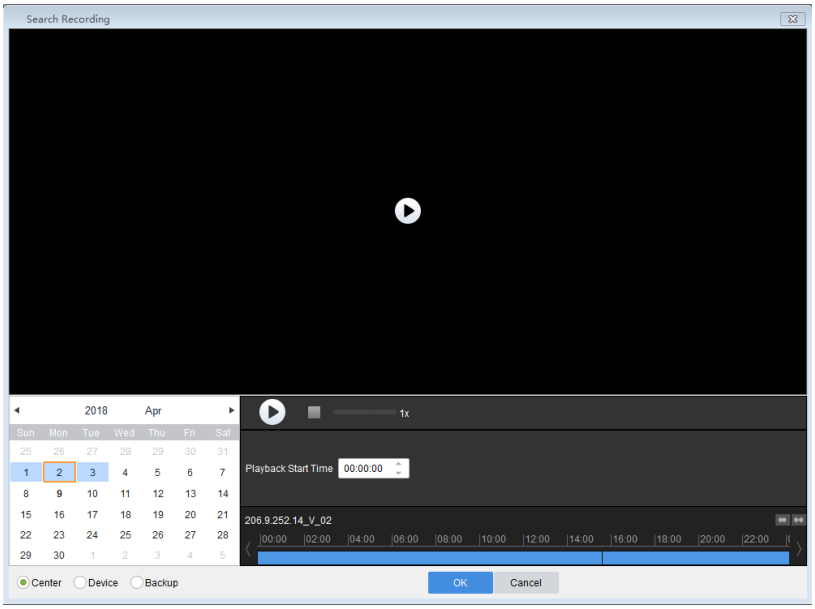
- B: Splice screens. Drag to select screens (or click while pressing Ctrl); The selected screens must form a rectangular. Steps for cancellation are the same.



- C: Start/stop decoding on all screens.
- D: Windows are automatically numbered when created. After you spice screens or change their positions, this button allows you to automatically renumber screens in top-to-down and left-to-right order.
- E: Set screen layout (for example, 4 screens).



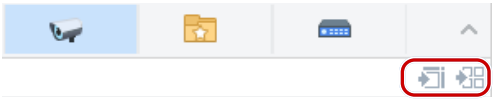
- F: Start/stop decoding on the selected screen.
- G: See and change the stream type.
- H: Choose a preset (applicable to PTZ cameras configured with presets).
- I: Search and play recordings (see normal recording playback for details).



- J: Hide the toolbar area.
- K: Right-click and preview live video from the binding camera.

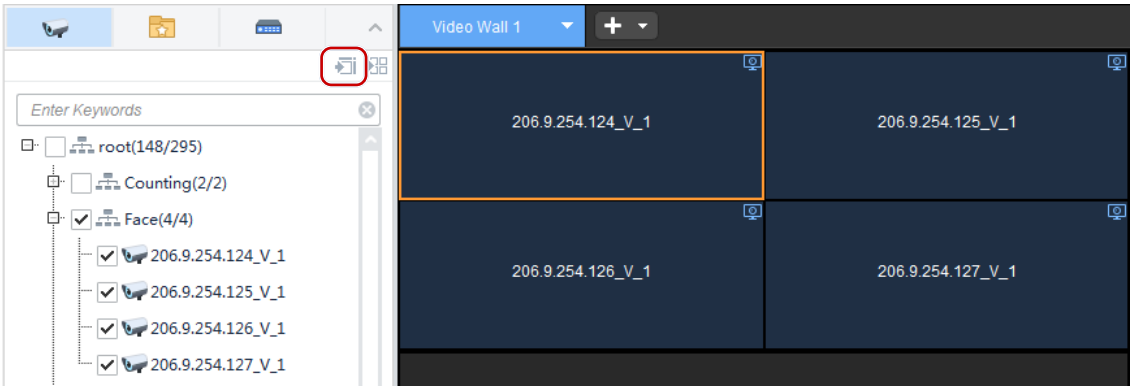
Play Video of Multiple Cameras on Video Wall

By Play on Screen and Play on Wall, you can play video from selected cameras on a specified screen or multiple screens of a video wall. Before you start, you need to complete the configuration of a video wall.



Play on Screen

Play video of multiple cameras on a screen. In this example, we split a screen (e.g., screen 1) into 4 (window 1, 2, 3, 4) to play video of four cameras.



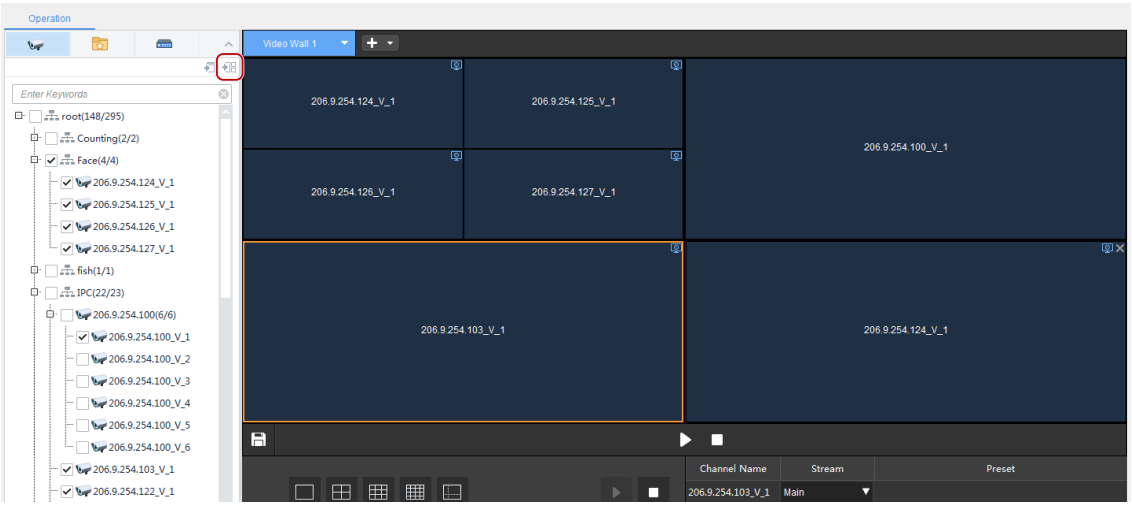
1. Click to select window 1 on screen 1.
2. Select cameras on the left.

3. Click .
4. Select a stream type.
5. Click **OK**. Video from the four cameras are playing in window 1, 2, 3 and 4 on screen 1 respectively.

Play on Wall

Play video of multiple cameras on multiple screens on a video wall.

Play video of 7 cameras on a video wall with 4 screens, among which, screen 1 is split into 4 windows.



1. Click to select window 1 on screen 1.
2. Select cameras on the left.
3. Click .
4. Select the stream type.
5. Click **OK**. Video from the first 4 cameras are playing on screen 1, and video from the other 3 cameras are playing on screen 2, 3 and 4 respectively.

Play Sequence Resource

Sequence resource consists of several cameras that are arranged in a certain order as a group to play video on video wall screen(s) in sequence at the set time interval. You need to configure sequence resource first (see Sequence Resource).

Steps

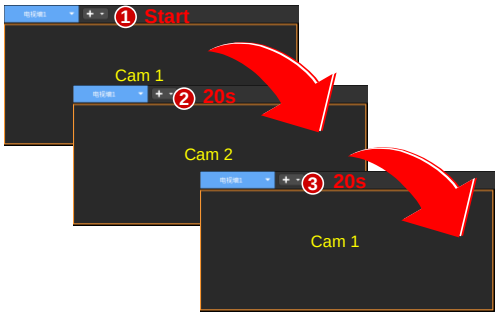
1. Click the **Sequence Resource** tab ( ).
2. Select the sequence resource to play.
3. Click to select a window or a screen. Video will start from the selected window or screen.
4. Click to start sequence on the selected screen.

5. Or click to start sequence on all the screens that are bound to decoding channels. After sequence starts, click to pause/resume, or click to stop.

Examples

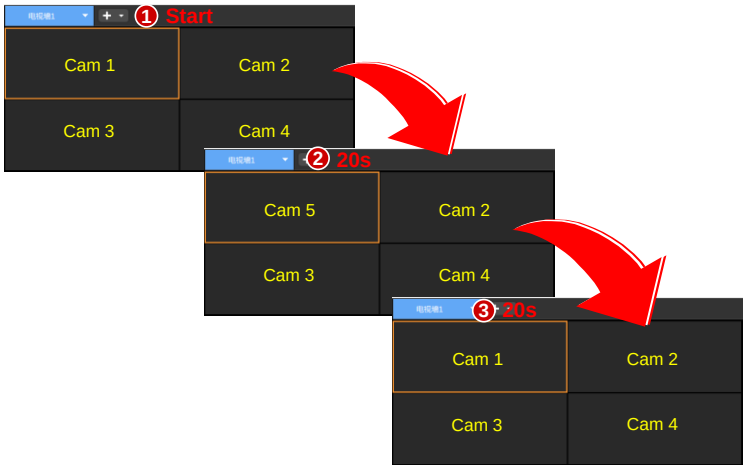
The following examples show how to play sequence resources on a video wall. Assume the time interval is set to 20 seconds for all the sequence resources.

Example 1: Sequence 2 cameras (Cam 1 and Cam 2) on one screen



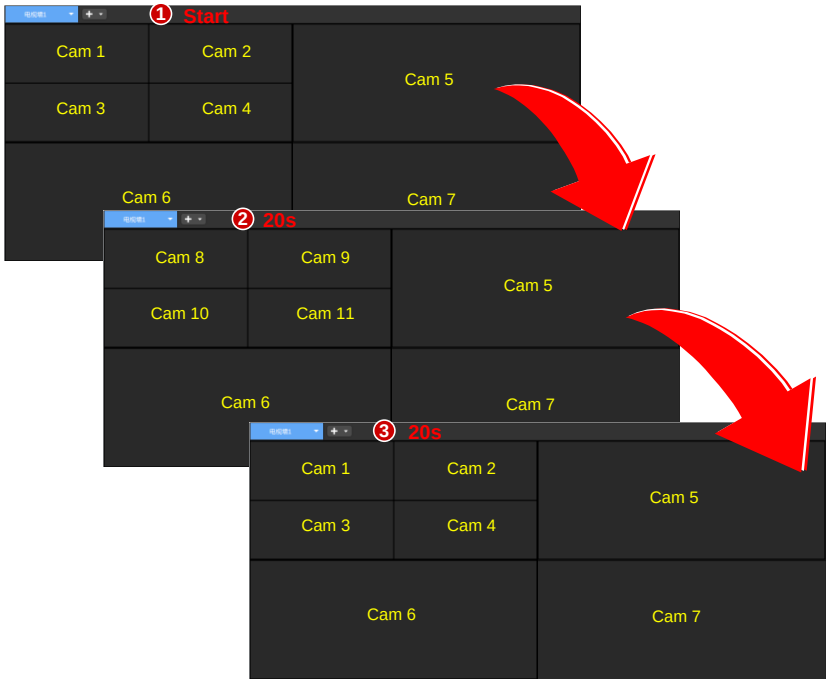
1. Sequence starts: play the 1st camera (Cam 1).
2. Switch in 20 seconds: play the 2nd camera (Cam 2).
3. Complete a round and start again: play the 1st camera (Cam 1).
4. Repeat the above process.

Example 2: Sequence 5 cameras (Cam 1, 2 … 5) on a 4-window screen



1. Sequence starts: play the first 4 cameras (Cam 1, 2, 3, 4).
2. Switch in 20 seconds to play the last camera: play Cam 5 on Win 1; other windows do not switch.
3. Complete a round and start again: play the first 4 cameras (Cam 1, 2, 3, 4).
4. Repeat the above process.

Example 3: Sequence 11 cameras (Cam 1, 2, 3 … 11) on a video wall (screen layout as follows)



1. Sequence starts: play the first 7 cameras (Cam 1, 2, 3, … 7).
2. Switch in 20 seconds to play the next 4 cameras (Cam 8, 9, 10, 11).
3. Complete a round in 20 seconds and start again: play the first 7 cameras (Cam 1, 2, 3, … 7).
4. Repeat the above process.

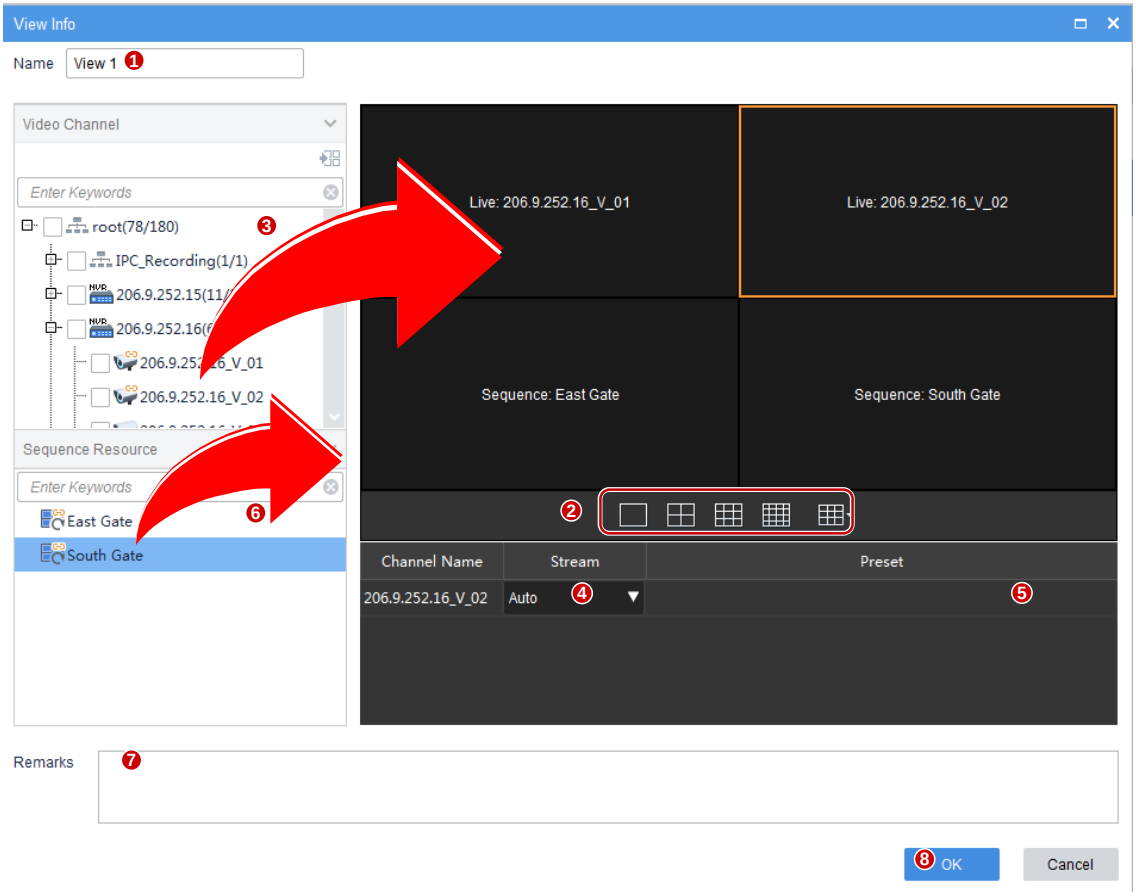
9 View Configuration

Click the **View** icon on **Control Panel**. The **View** page is displayed. Manage views, including the screen layout (how many windows and how they display) and binding cameras or sequence resources. The created view appears on the **View** list on the **Live View** page. You can start live view and sequence by one click of the **Play** button.

NOTE!

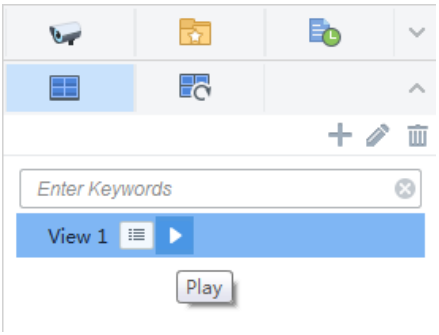
Please configure the sequence resource first (see Sequence Resource) before creating a view that involves a sequence resource.

Click **Add** to create a view.



1. Enter the view name.
2. Set screen layout (for example, 4-window display).
3. Drag cameras to intended windows one by one to complete binding; Or click to specify a window, select the cameras, and then click . If binding is successful, the service name (e.g., Live) and camera name appears at the window center, and a link flag appears on the camera name on the left.
4. Select a stream type. Select a preset (only application to PTZ cameras with configured presets).
5. Drag sequence resources to intended windows to complete binding. If binding is successful, the service name (Sequence) and sequence resource name appears at the window center, and a link flag appears on the sequence resource name on the left.
6. (Optional) Enter a brief introduction about the view.
7. Click **OK**.

The name of the created view appears at the **View** tab on the **Live View** page. Start the configured live view or sequence by just one click of the **Play** button ( ).



10 Alarm Configuration

Click the **Alarm Configuration** icon on **Control Panel**. The **Alarm Configuration** page is displayed. Create alarm plans so that the linked object(s) perform triggered action(s) when alarms occur during a certain period. A plan mainly specifies the time template, alarm source(s), alarm type(s), linked object(s), and action(s) to trigger.

Triggered actions include:

- Live view: Display live video from the linked camera(s) in a pop-up window.
- Goto preset: The linked PTZ camera rotates to a preset position (preset for short).
- Alarm output: Output an alarm to external device.
- Alarm to video wall: Play video from the linked camera on the video wall.

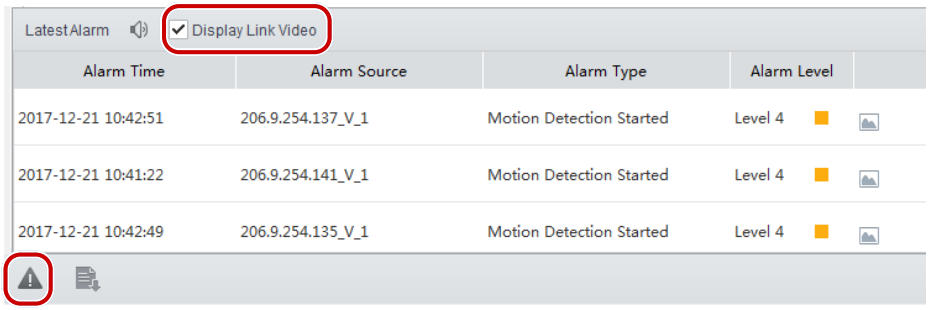
NOTE!

- The time template used in an alarm plan needs to be configured beforehand under **Service** > **Alarm Configuration** > **Time Template** on the Web Manager.
- Only alarms that occur within the time period(s) specified in the configured time template will trigger actions.
- You may configure multiple alarm sources in an alarm plan, and specify multiple actions to trigger for an alarm source.
- New alarm plans are enabled by default and can be deleted or disabled as needed.

Create an Alarm Plan to Trigger Live Video

Create an alarm plan so that a window pops up playing live video from linked camera(s) when an alarm occurs.

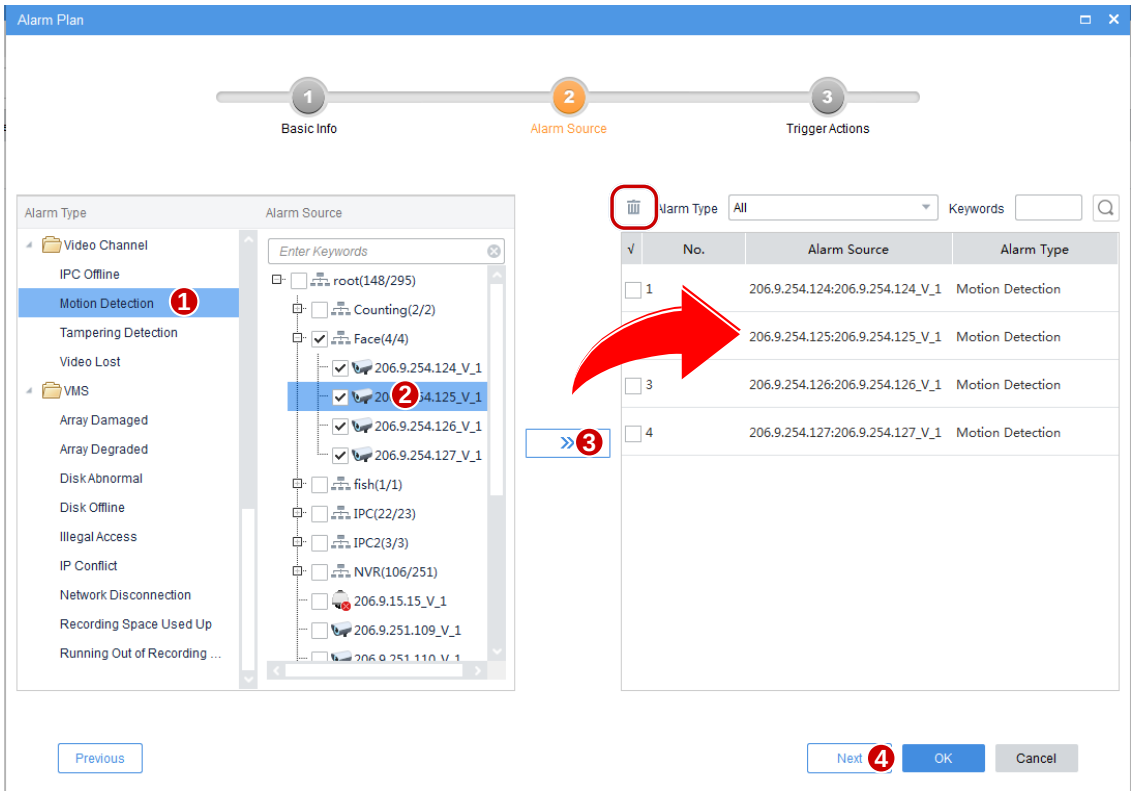
First enable the alarm-triggered live video function: Click in the lower left corner and select **Display Link Video**.



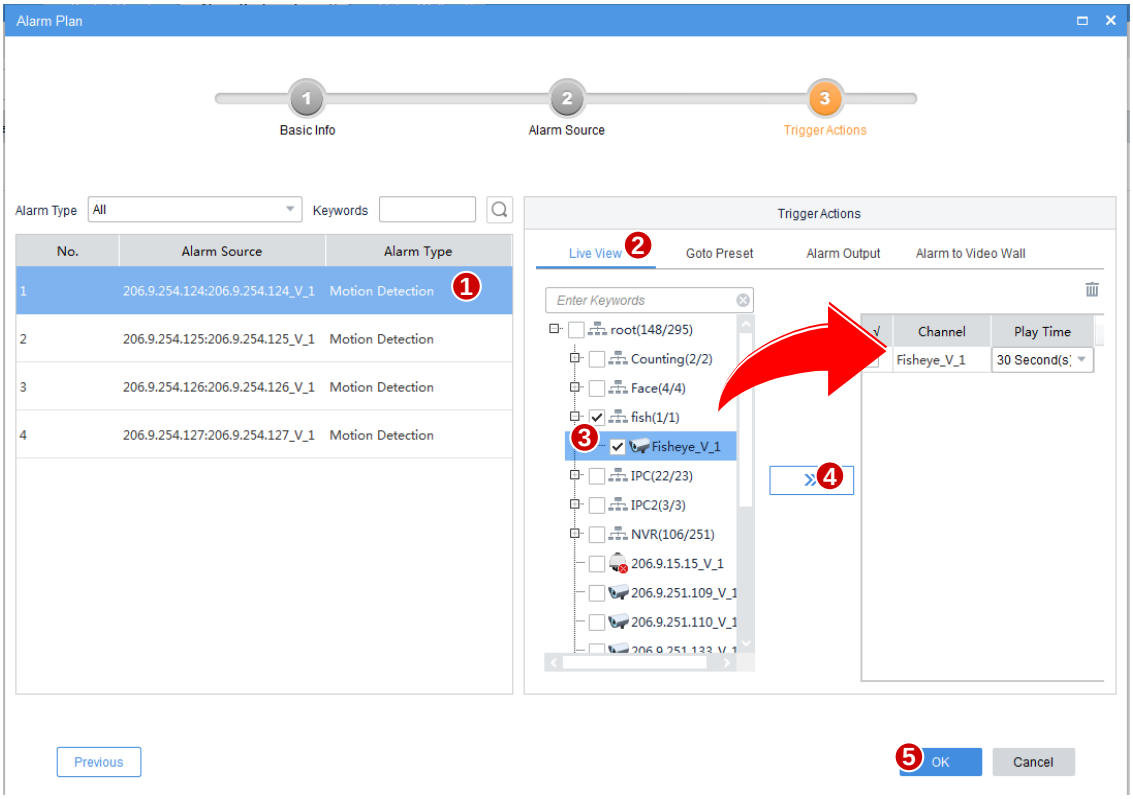
Click **Alarm Configuration** > **Alarm Plan** > **Add** and then follow these steps:

1. Complete the basic information. The time template is configured on the Web manager. New alarm plans are enabled by default. Enable alarm sound as needed.

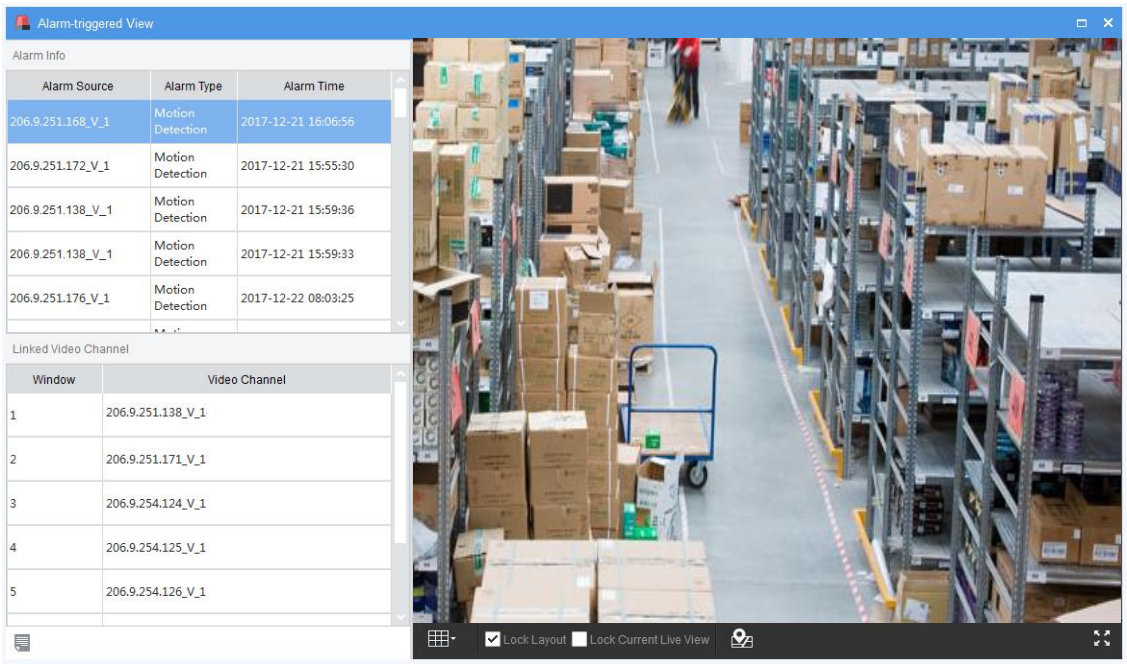
2. Follow the steps to set alarm type(s) and alarm source(s). Use keywords to filter. Click to delete unneeded alarm sources.



3. Follow the steps to set linked camera(s) and action(s) to trigger (live video). **Play Time** means the duration of live video to play. Click to delete unneeded actions.



4. When live video is triggered by an alarm, the window pops up displaying live video and related alarm and camera information.



- Click to set the screen layout (e.g., 1 window).

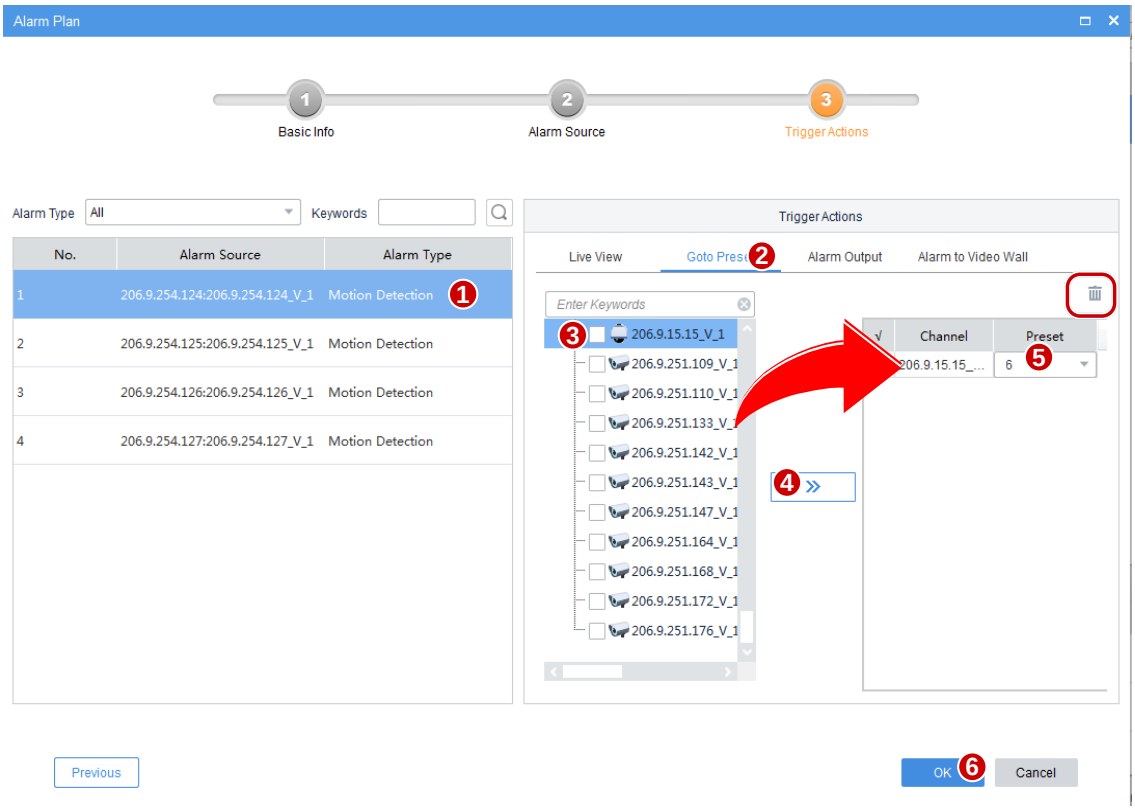
- Lock layout: By default the check box is not selected, and the layout adapts to the number of cameras automatically. Select the check box as needed so the layout does not change when new alarms occur.
- Lock Current Live View: By default the check box is not selected, and the current live video will be replaced by new alarm-triggered live video. Select the check box as needed so the current live video will not replaced, and it will not stop automatically when the set play time is over.
- If the alarm source is a camera for which a hot spot has been created on the map, you may click to open the map and locate the alarm source on the map (see E-map).
- Click in the lower left corner (see GUI Introduction) to open the **Alarm Records** page and view alarm records.
- Other live view operations (see Window Toolbar).

Create an Alarm Plan to Trigger Preset

Create an alarm plan so that the linked PTZ camera goes to a preset position(preset for short) when an alarm occurs. The preset should be configured beforehand.

1. Complete the basic information. Set alarm type(s) and source(s). See Step 1 and 2 in Create an Alarm Plan to Trigger Live Video for details.

2. Follow the steps to set the linked PTZ camera(s) and action to trigger (goto preset). Click to delete unneeded actions.

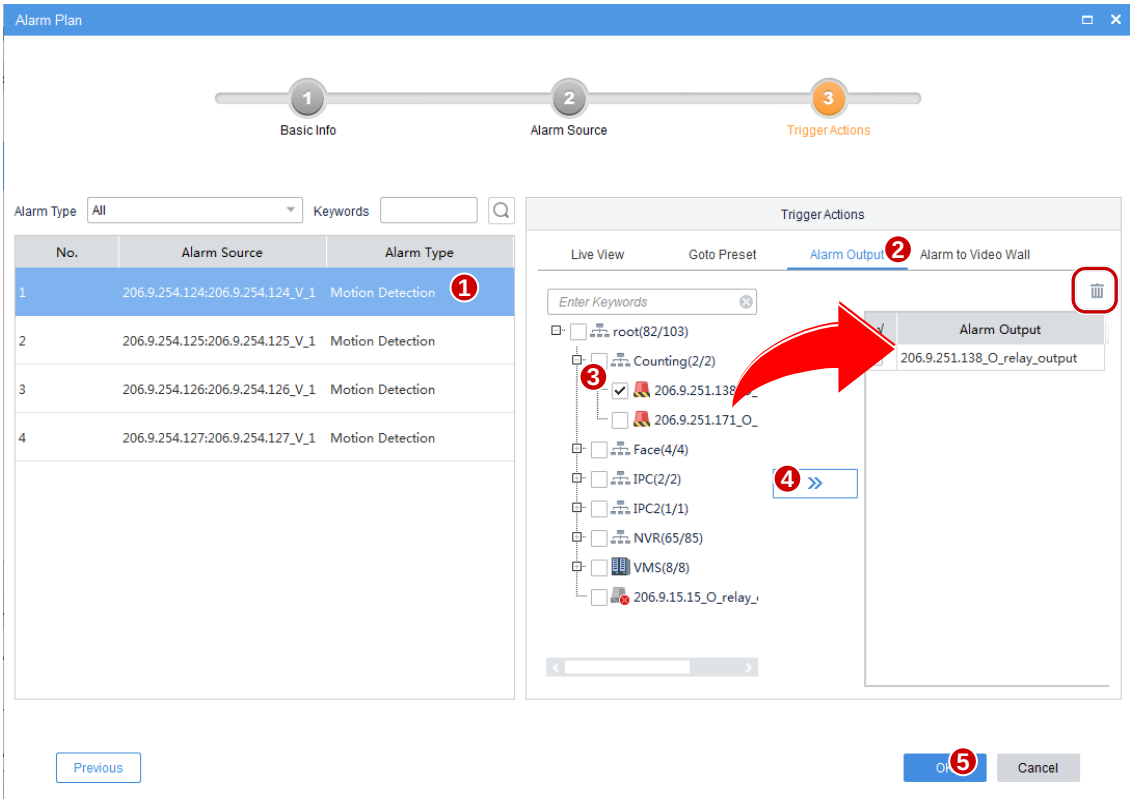


Create an Alarm Plan to Trigger Alarm Output

Create an alarm plan so that the linked object outputs an alarm when an alarm occurs.

1. Complete the basic information. Set alarm type(s) and source(s). See Step 1 and 2 in Create an Alarm Plan to Trigger Live Video for details.

2. Follow the steps to set the linked channel(s) and action to trigger (alarm output). Click to delete unneeded actions.



Create an Alarm Plan to Trigger Alarm on Video Wall

Create an alarm plan so that a video wall starts playing live video from the linked camera when an alarm occurs.

Create an alarm to video wall task

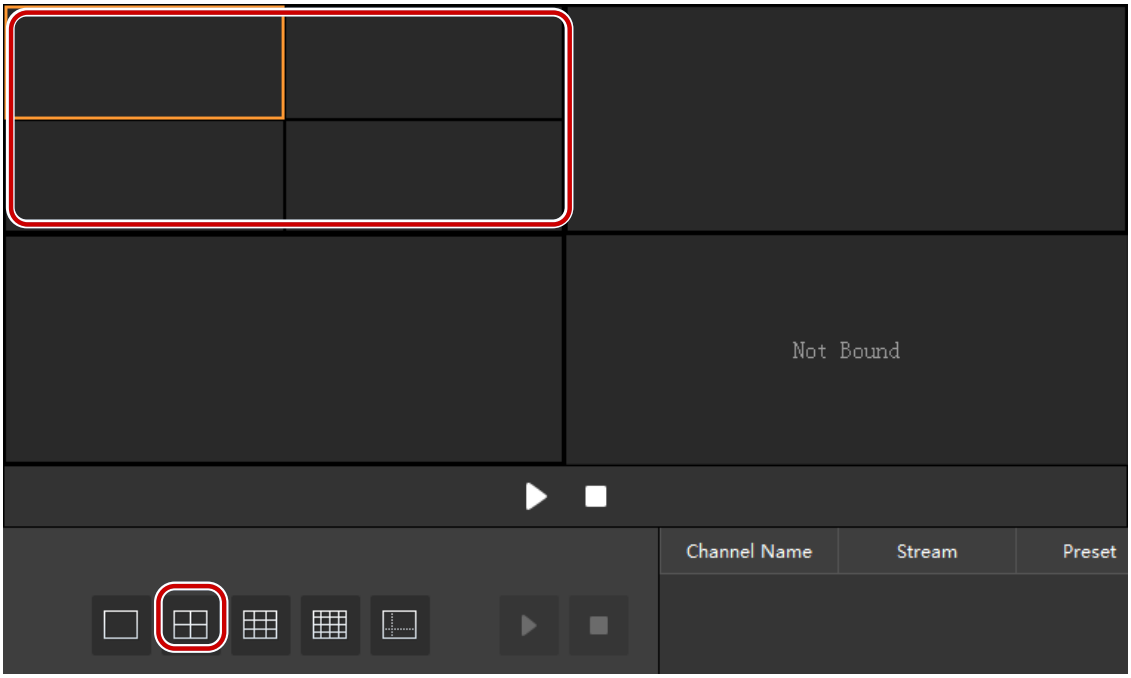
NOTE!

Configure video wall first (see Video Wall).

Click **Alarm Configuration** > **Alarm to Video Wall Task** > **Add** and then follow the steps.

1. Enter the task name (e.g., Task 1).
2. Select a video wall (e.g., Video Wall 1).

3. (Optional) Split the screen, e.g., to 4.



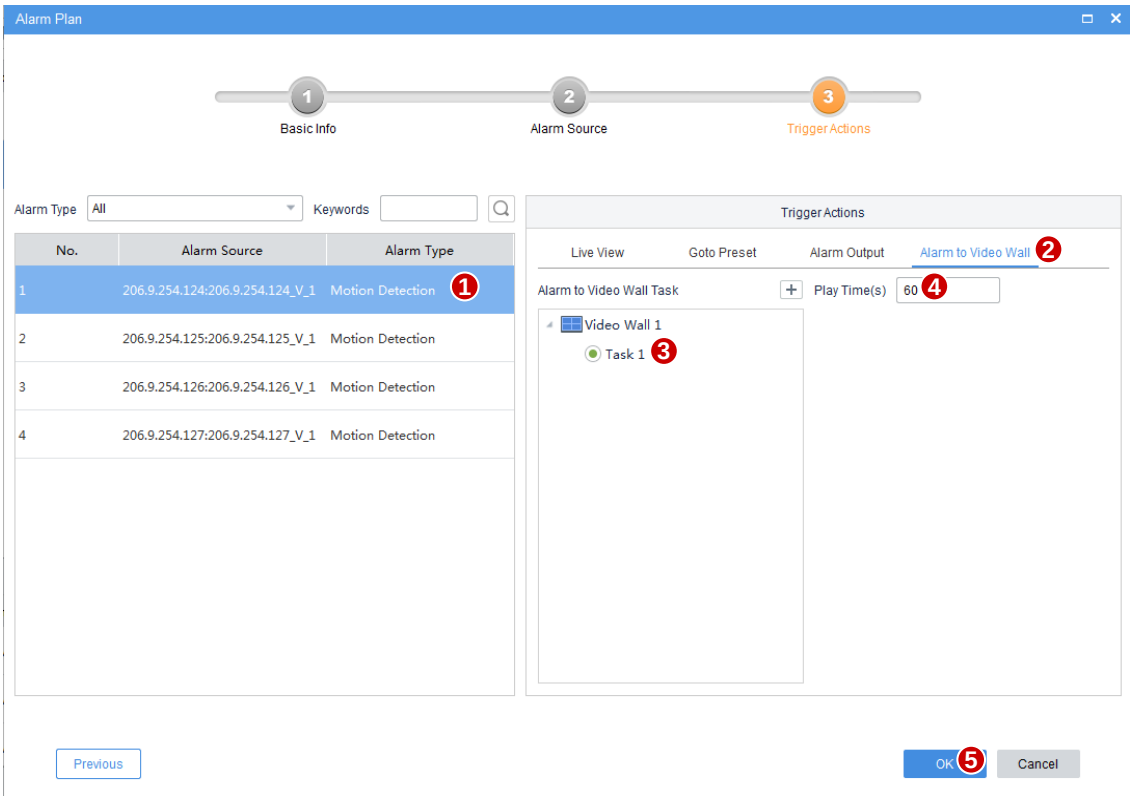
4. Drag the camera to the screen to complete binding; or select multiple cameras and then click (see Play on Screen) or (see Play on Wall) to bind in batches. If binding is successful, the screen color changes, appears in the top right corner of the screen, and the name of the camera appears at the screen center. Select the stream type. For a PTZ camera configured with presets, you may also select a preset.

5. Click **OK**. The task appears in the **Alarm to Video Wall Task** list (see the figure below).

Configure alarm to video wall

1. Complete the basic information. Set alarm type(s) and source(s). See Step 1 and 2 in Create an Alarm Plan to Trigger Live Video for details.

2. Follow the steps to complete alarm to video wall configuration.



NOTE!

- Click to edit a task (button appears when the pointer hovers over the task name), or click to add one.
- If an alarm occurs when video is playing on a video wall, the video will be replaced by the alarm video. When the set play time is over, the previous video continues.
- If a video wall is used by several alarm to video wall tasks, the succeeding alarm video replaces the preceding, and the play time resumes from 0 when the succeeding video starts on the video wall.
- Closing the client software does not affect alarm video playing on the video wall.
- Alarm video playing on the video wall can be replaced by live or recorded video played manually.

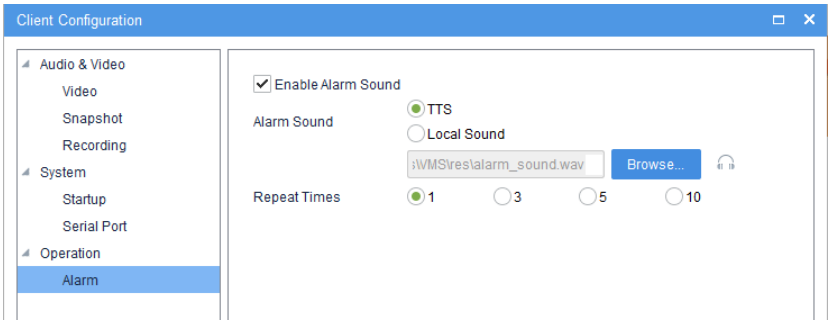
Alarm Sound

Set alarm sound, so the client plays an audio file or uses TTS to make sound alerts in the set format when an alarm occurs on a specified device.

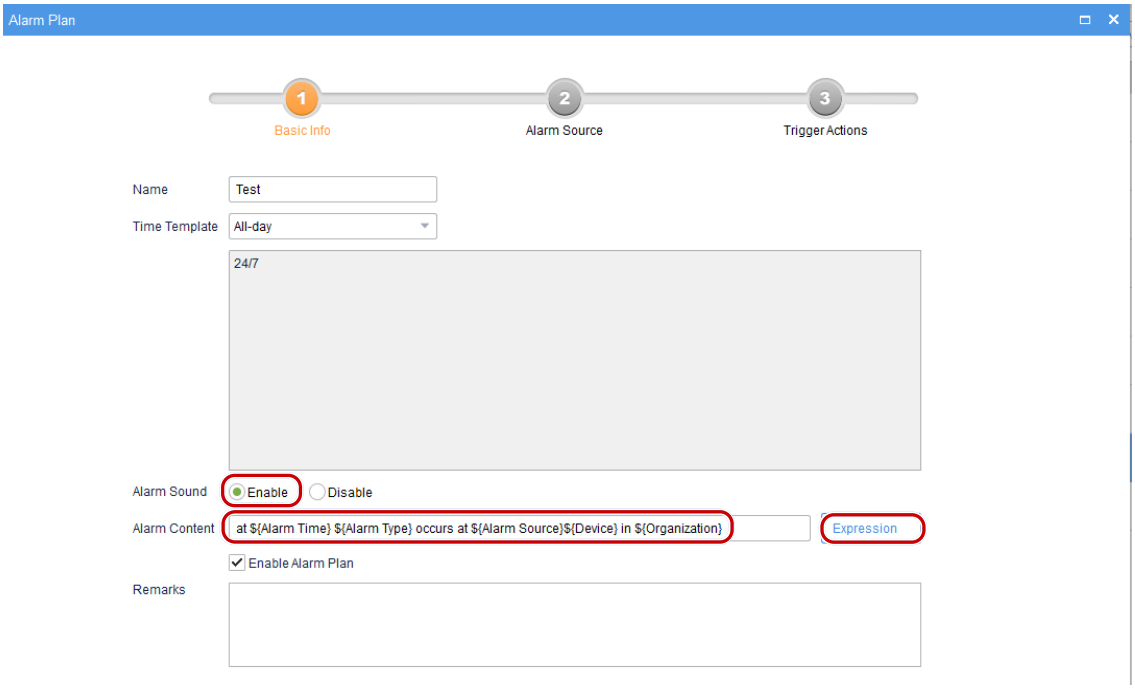
Use TTS

To play alarm sound using the Text-To-Speech (TTS) engine:

1. Click **Client Configuration** on **Control Panel**.
2. Enable alarm sound and then select TTS. Set repeat times as needed.



3. Enable alarm sound and set alarm content for the corresponding alarm plan in alarm configuration. You may enter text in the field, or click the **Expression** button and choose options in certain order. The expression includes organization, device, alarm source, alarm time and alarm type. Each option can be chosen once only.



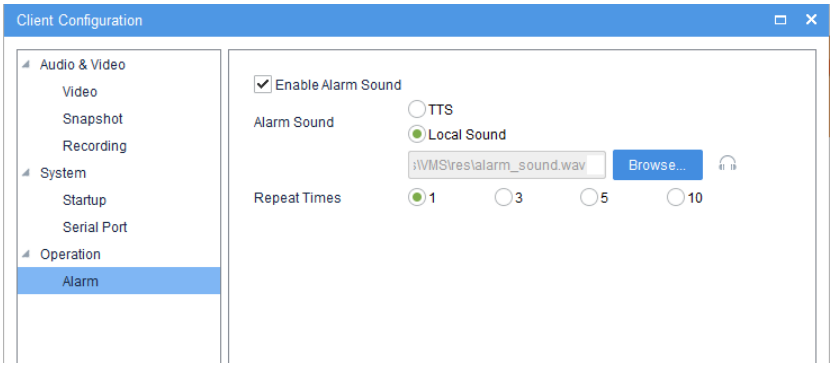
TIP!

You may edit TTS settings in the control panel of the Windows operating system of your client computer, including language and voice speed. Normally there is no need to change the default settings.

Use a Local Audio File

To play alarm sound using an audio file saved on your client computer:

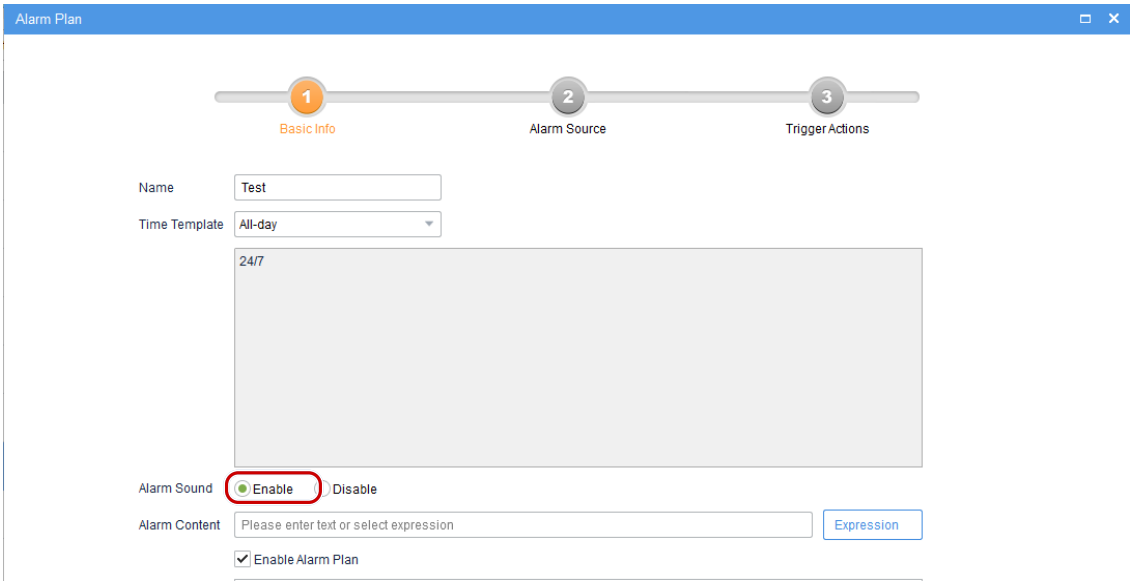
1. Click **Client Configuration** on **Control Panel**.
2. Enable alarm sound, select **Local Sound**, and select an audio file (.WAV) from your client computer. Set repeat times as needed.



TIP!

You may also click in the lower left corner (see GUI Introduction) and then click to turn on or off alarm sound on the client.

3. Enable alarm sound for the corresponding alarm plan in alarm configuration.



11 Alarm Records

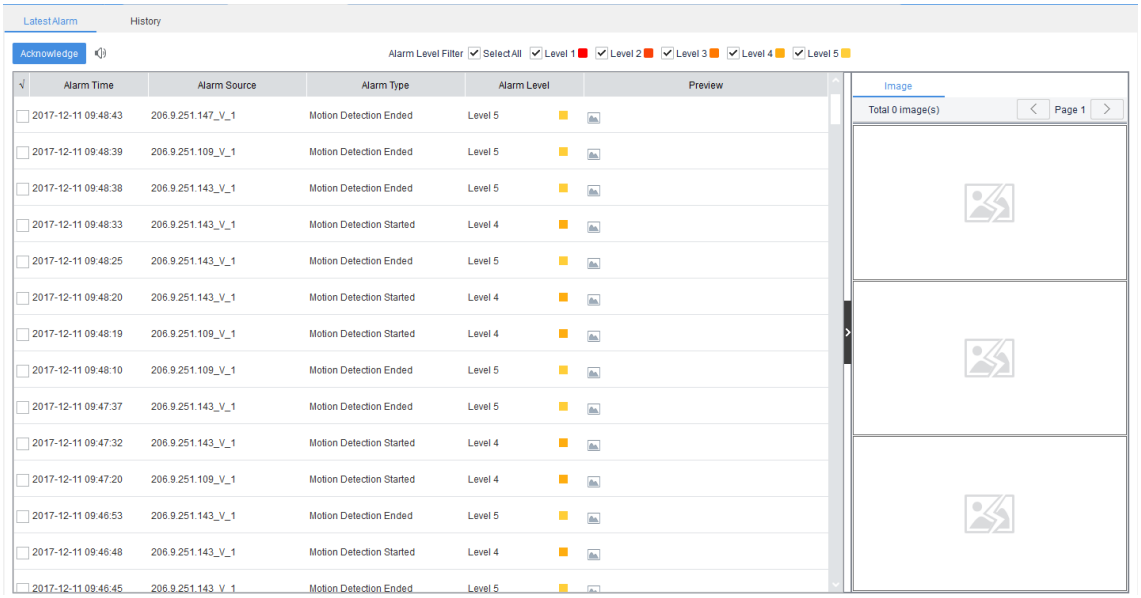
Click the **Alarm Records** icon on **Control Panel**. The **Alarm Records** page is displayed. View and acknowledge alarms or query alarm records. You may click the preview button to view alarm triggered snapshots if there are any.

Alarm levels are configured on the Web Manager (**Service** > **Alarm Configuration** > **Custom Alarm Level**).

Latest Alarms

Click the **Latest Alarm** tab. Latest alarms are displayed and refreshed automatically. Select records (or click to select all) and then click **Acknowledge** to acknowledge. Acknowledged alarms disappear from the list and can be retrieved on the **History** tab.

Select alarm level(s) to display alarms of certain levels only. Turn on/off alarm sound as needed.

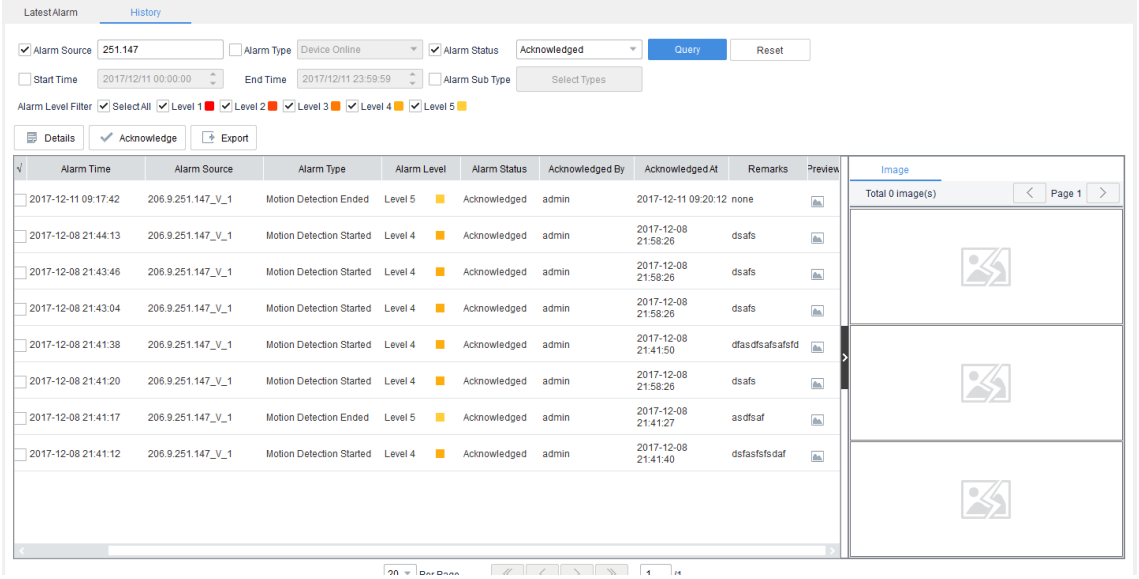


You may also click (**Latest Alarm** button) in the lower left corner to view latest alarms.

History Alarms

Click the **History** tab. Set search conditions. View alarm details, acknowledge alarms, and export alarm records.

All alarms can be retrieved on the **History** tab but not necessarily in real time.

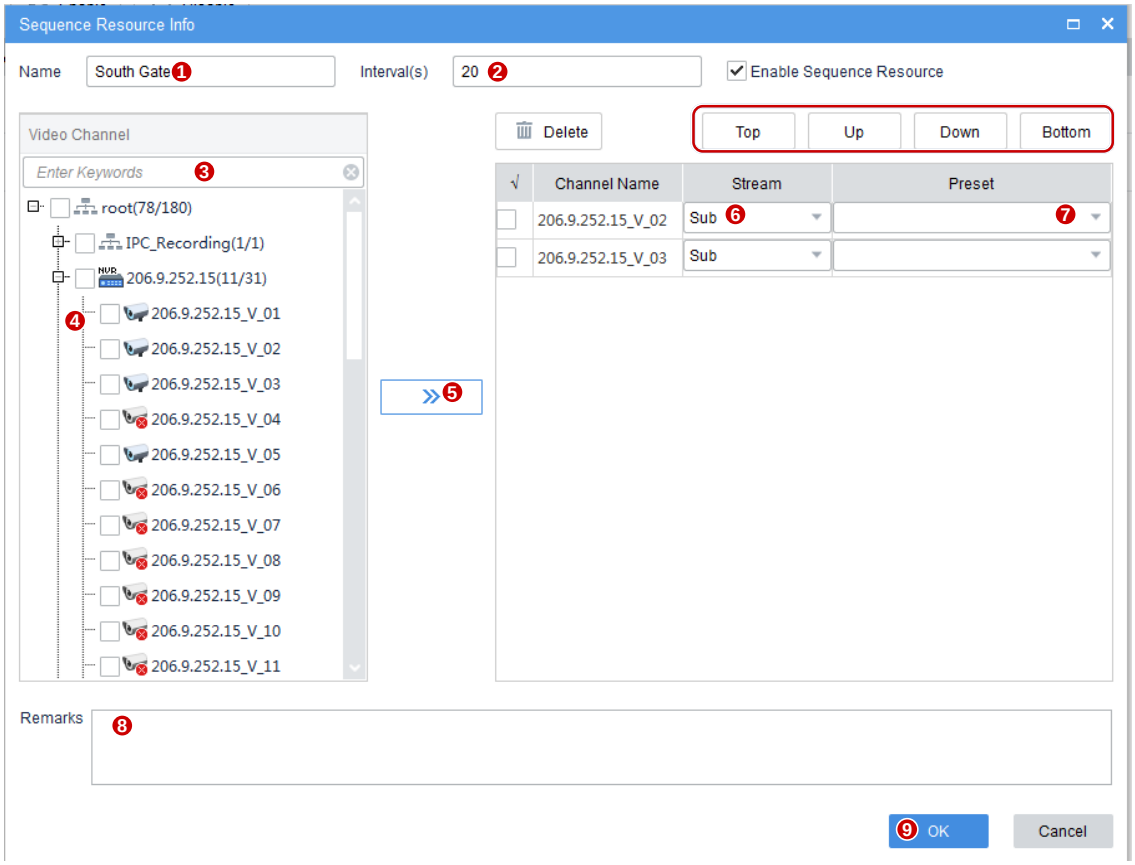


12 Sequence Resource

Select and arrange cameras in certain order as a group for use in live view and video wall. Video from the selected cameras will be displayed in sequence at the set interval.

Click the **Sequence Resource** icon on **Control Panel**. The **Sequence Resource** page is displayed.

Click **Add** and then follow the steps to set sequence resource.



1. Enter the resource name.
2. Set the time interval at which a cameras switches to the next.
3. (Optional) Enter keywords to filter cameras.
4. Select cameras.
5. Click » . The selected cameras are added to the list. Click **Top**, **Up**, **Down** or **Bottom** buttons to adjust the order.
6. Select stream types as needed.
7. Select presets (only applicable to PTZ cameras with configured presets).
8. (Optional) Enter a description of the sequence resource.
9. Click **OK**.

NOTE!

- New sequence resources are enabled by default and display in View and Video Wall modules.
- For more information about how to use sequence resource, see View Configuration and Video Wall.

13 Audio

Click the **Audio** icon on **Control Panel**. The **Audio** page is displayed with two tabs: **Two-way Audio** and **Broadcast**.

- Two-way audio: Bidirectional audio communication with a camera or an NVR.
- Broadcast: Audio broadcast to cameras or NVRs. The camera or NVR side can only hear sound from the client.

Two-way Audio

Click the **Two-way Audio** tab. You can:

- Have two-way audio communication with a camera and meanwhile view live video from it.
- Have two-way audio communication with an NVR.

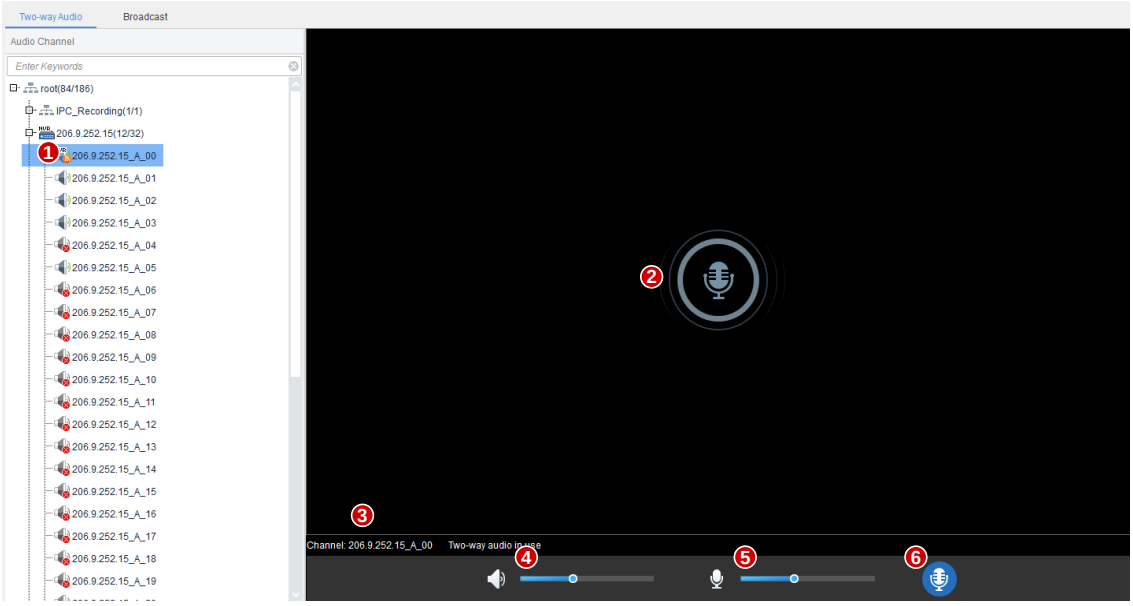
NOTE!

- Two-way audio requires a speaker and a microphone be plugged in to your client computer.
- The client software can establish two-way audio with one camera or one NVR at a time.

Two-way Audio with an NVR

Double-click an NVR audio channel 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.

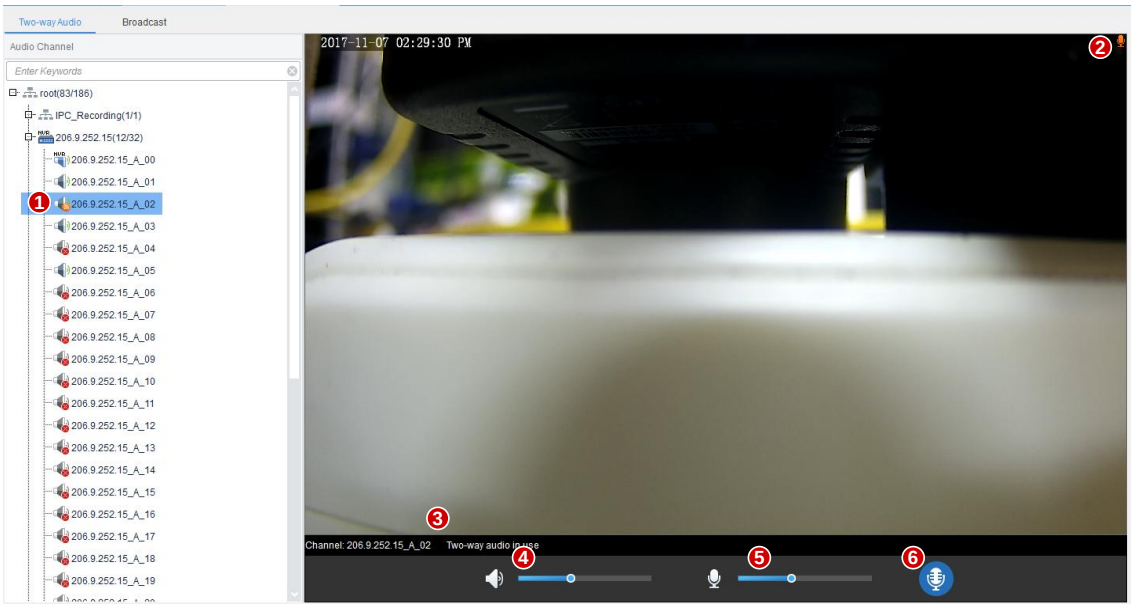
During two-way audio, you can adjust the output sound volume at the client computer side (4) and the input sound volume (5), or stop two-way audio (6).



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 the output sound volume at the client computer side (4) and the input sound volume (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 (see Window Toolbar in Live View).

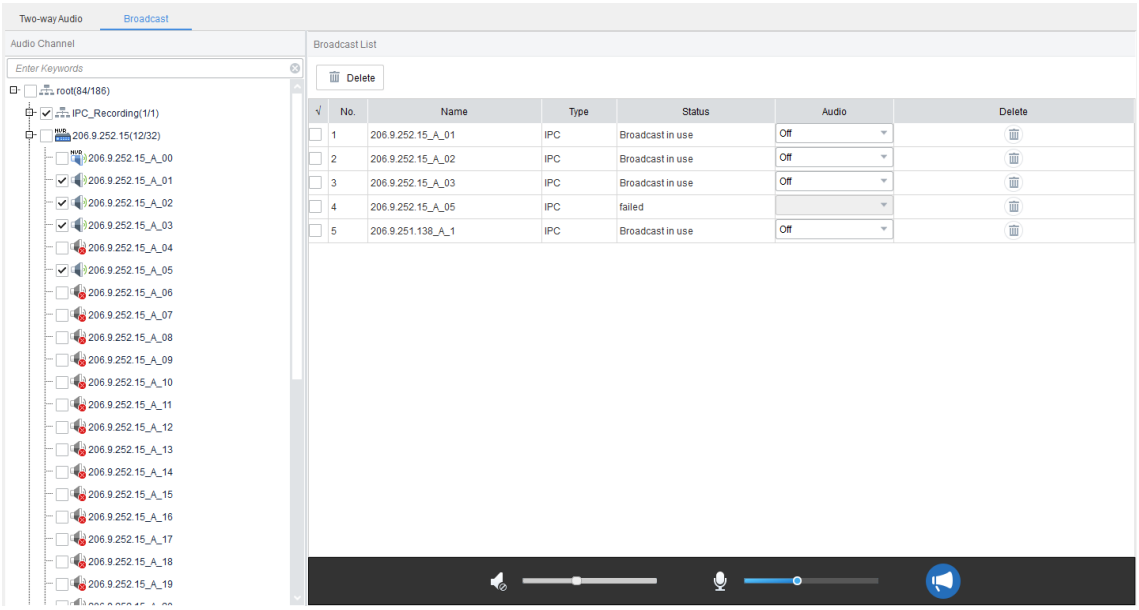
Broadcast

Broadcast is one way, from the VMS to other devices.

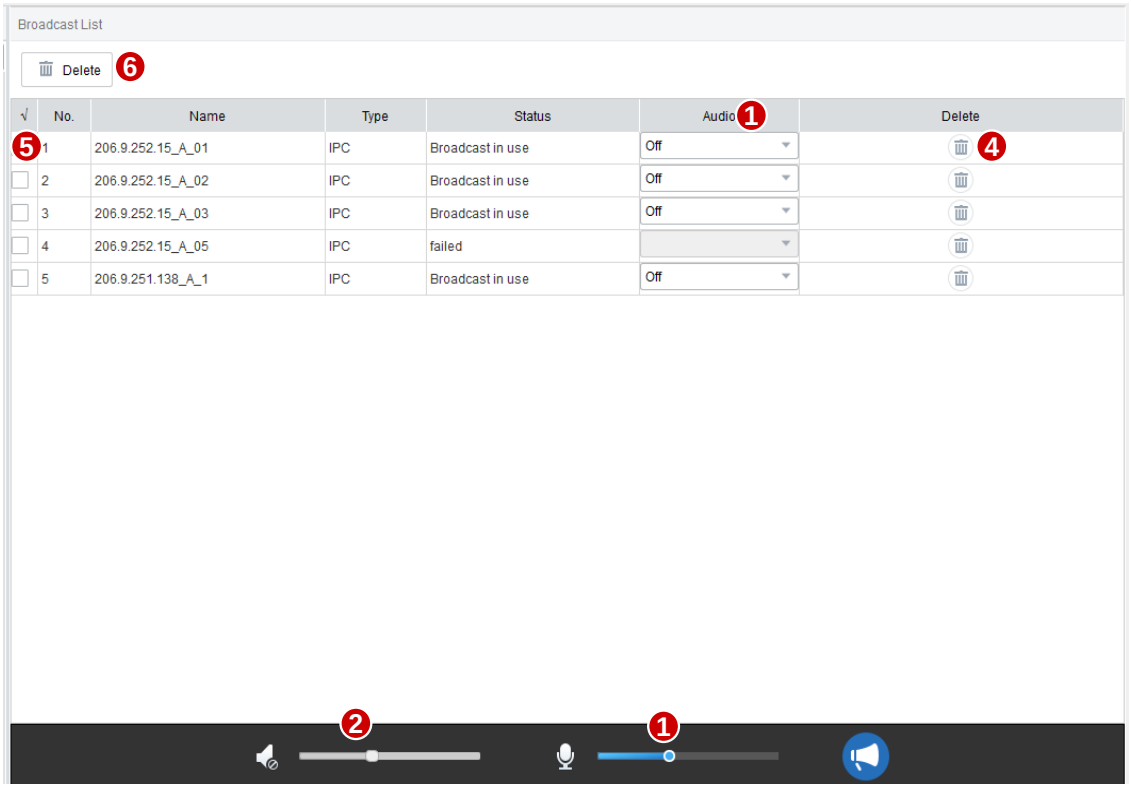
Click the **Broadcast** tab. Select audio channels in the list on the left. You can:

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

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



When broadcast is started, changes to , and status is displayed for the audio channels.



During broadcast, you can:

- Add more audio channels by selecting from the list on the left. Broadcast starts automatically for these channels.
- Adjust microphone sound volume (1), or click to turn off microphone.

- Adjust speaker sound volume (2) or turn off speaker: this operation can be performed when audio is turned on for only one camera audio channel (3); otherwise, the button is grayed out. Audio cannot be turned on for an NVR audio channel.
- Delete audio channels from the broadcast list: click (4) to delete one by one; or select the check box (5) and then click

to delete in batch. Clicking will select all channels in the broadcast list.
- End broadcast: click or close the **Audio** page.

NOTE!

- Devices that support broadcast include cameras and NVRs connected via ONVIF and cameras and NVRs added to cloud.
- Broadcast and two-way audio cannot be used simultaneously.
- Broadcast supports a maximum of 128 audio channels.

14 People Counting

Use people counting to count people entered/left during a certain period.

Click the **People Counting** icon on **Control Panel**. The **People Counting** page is displayed with two tabs:

- Realtime Statistics: Display counting results in real time for selected cameras and update statistics, including the 7 latest counting results.
- Report Statistics: Display statistics according to query conditions in the form of bar chart or line chart and export report.

Realtime Statistics

Click the **Realtime Statistics** tab. You can:

- Play live video
- Enable realtime statistics to view counting results for selected cameras in real time.

Play Live Video

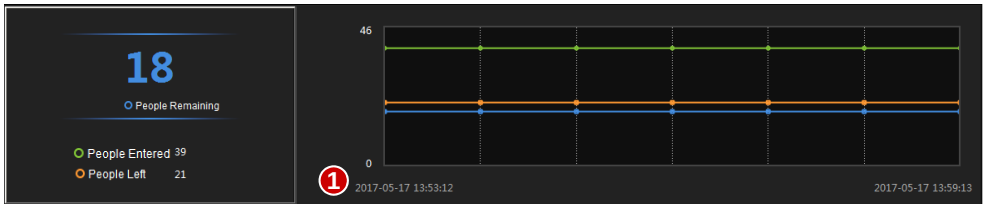
See Play Live Video.

Realtime Statistics

Select camera(s) to enable realtime statistics. The camera symbol changes (e.g.,

).

Statistics are displayed on the right, including:



- Real-time number of people (left): latest counting result. It is the total number when multiple cameras are selected. Three colors indicate different counting types and match the lines on the coordinates on the right side.
- 7 latest counting results (right): axis X (horizontal) means time, and axis Y (vertical) means number of people (minimum is 0, maximum is 10 by default and updates according to the actual counting result).

When enabled, the first counting time is displayed in the lower left corner of axis X (see 1 in the figure above), and the counting result appears on axis Y. The result updates periodically. The latest result is displayed on the right.

TIP!

Live view and realtime statistics stop automatically when you close the **People Counting** page or log out of the system.

Report Statistics

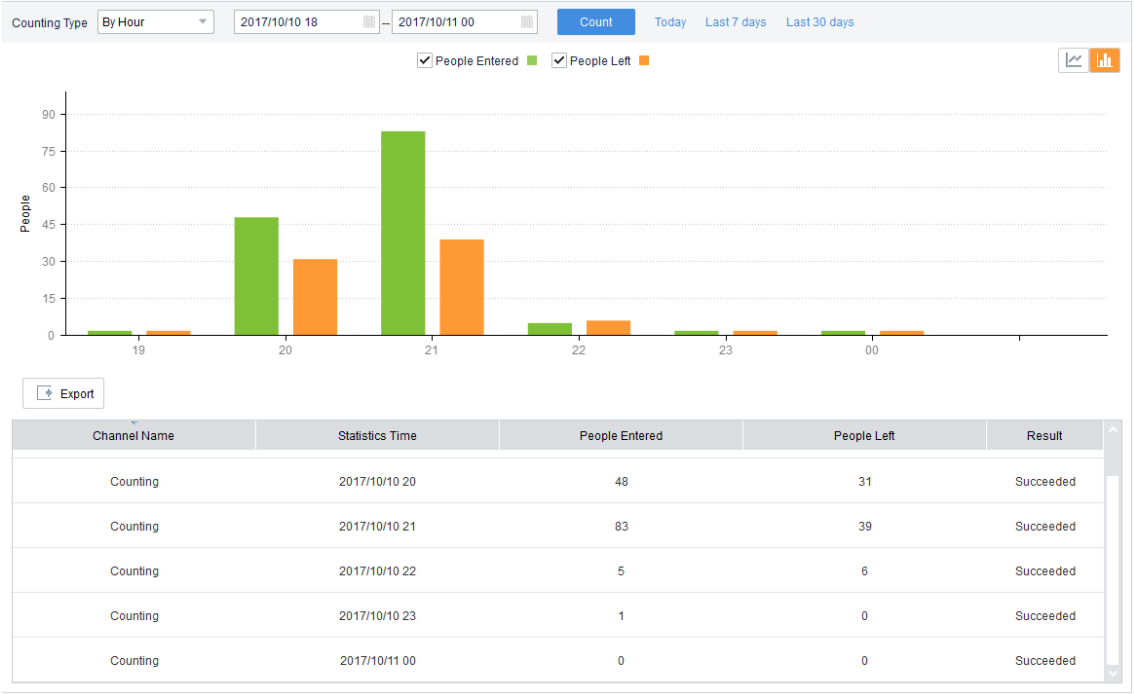
Click the **Report Statistics** tab. Select camera(s) and then click Today Last 7 days Last 30 days; or set conditions first:

- Count by minute, hour, day or month.
- Set a time period by selecting on the calendar or typing manually.
- Count people entered and/or left by selecting People Entered People Left .
- Display results with a line chart or bar chart by clicking .

NOTE!

The maximum time period is 60 time units depending on the counting type (minute, hour, day or month) you choose; for example, 60 months when counting by month, and 60 days when counting by day, etc.

Click **Count**. Results are displayed. Example:



Channel Name	Statistics Time	People Entered	People Left	Result
Counting	2017/10/10 20	48	31	Succeeded
Counting	2017/10/10 21	83	39	Succeeded
Counting	2017/10/10 22	5	6	Succeeded
Counting	2017/10/10 23	1	0	Succeeded
Counting	2017/10/11 00	0	0	Succeeded

- You may view statistics of a certain time point by hovering the mouse on the chart.

- Click **Export** to export statistics and save to your computer as a CSV file. You may open the file using Microsoft Office Excel.

15 Client Configuration

Set parameters for the client computer where the client software is running.

Click **Client Configuration** on **Control Panel**. The **Client Configuration** dialog box appears. Some parameters are described in the table below.

Parameter			Description
Audio &	Video	Processing	Short Delay or Ultra-low Delay is recommended when

Parameter			Description
Video		Mode	network connectivity is in good performance. Fluent is recommended if there is an obvious time lag.
		Display Mode	Choose an optimal display mode in accordance with your client computer's performance.
		Stream Transmission Protocol	Transmission protocol used to carry video streams from front end devices to your client computer. ***Note:*** • *TCP is recommended in poor network conditions. After switching from UDP to TCP, you need to restart live view to apply the changed setting.* • *Make sure the software is not blocked by firewall if you choose UDP.*
		Stream Transmission Policy	• Forwarding First: The devices send media streams to the client software via the VMS. • Direct Connection First: The devices first try sending media streams to the client directly; if it failed, the devices send media streams via the VMS.
	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.
System	Startup	Enable Auto Login to EZVMS	If enabled, you will automatically log in to the most recently accessed server address after you start the client software. If **Enable Auto Login to Windows** is enabled, the client software will start automatically after the computer accesses the Windows operating system.
		Enable Auto Login to Windows	If enabled, you will automatically log into Windows after your client computer starts up. You need to enter the username and password for your Windows system in the

Parameter			Description
			boxes below.
Operation	Alarm	Enable Alarm Sound	Set whether to enable sound alert when an alarm occurs. You may choose to use TTS or a local audio file to play alarm sound (see Alarm Sound). After completing the configuration here, you also need to complete settings in Alarm Configuration.