Video Management Server Client Software

User Manual

V2.07

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1 Notice

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

1. Notice

i Important:

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 a weak password will be denied until it is changed to a strong one.

- 2. 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.

3. 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
	Indicates a hazardous situation which, if not avoided, could result in bodily injury or death.
	Indicates a situation which, if not avoided, could result in damage, data loss or malfunction to product.
	Means useful or supplemental information about the use of product.

2 Introduction

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

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.		
Software Client	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.		

The VMS offers three access methods. This manual describes how to use the software client.

3 System Requirements

The PC that hosts the client 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 PC 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.	

🔊 Note:

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

4 Installation

4.1 Download

Windows OS users can download the setup file (.exe) on the login page of the VMS' Web manager. Using a 32-bit Web browser downloads the Win32 version, and using a 64-bit Web browser downloads the Win64 version.

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.

Click the EZVMS Client icon to download and install.

😴 Note:

- The downloaded software matches the VMS device version.
- When accessing the VMS using a lower version client software, you need to upgrade the client software before you can access the VMS. Click **Download** to download and install automatically.
- When you access the VMS using a higher version client software, the functions available on the client software depend on server functionality and user permissions. You can choose to download a lower version client software that matches the VMS device version, or ignore the prompt and continue to log in, but compatibility issues may occur.

4.2 Upgrade

To install a newer version in the directory where the current version is installed, run the setup file of the new version directly. The setup will automatically uninstall the current version and then install the new version.

😴 Note:

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

4.3 View Version Info

Log in, click ⑦ in the upper left corner, and then select **About EZVMS** from the drop-down menu.

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

5 Login

The client software provides two login methods:

- Login by IP/Domain: You need to enter the IP address (or domain name), port number, username and password to log in.
- Login by cloud: Log in to 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.

5.1 Login by IP/Domain

Enter the IP address (or domain name), 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. Enter the actual port number to log in if it has been changed on the VMS.
- If you log in with **Save Password** selected, the username and password you entered 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.
- If the VMS has configured with AD domain and domain users are imported, the domain username/ password can be used to access the VMS.

5.2 Login by Cloud

😴 Note:

You need to sign up for a cloud account at https://en.ezcloud.uniview.com and add the VMS first. 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:

	IP/Domain	Cloud 1
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2	1800000000	
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🗆 Sa	we Password	Auto Login
	larin	•

- 1. Click Cloud.
- 2. The service area is International for users outside China.
- 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. Select a VMS and then click OK.

6 GUI Introduction

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

EZVM: SYSTEM	S Control Panel			⊞~∵Cr}iia admin E:E] G	
	Common 3			Baxie Smart	• ^
	(5		Dosr Access Control	٥Ŭ
	Live View View live video and manage live view.	Playback Search for and play back recordings.	Video Wall Use and configure the video wall.	Behavior Search	
	¥16¥.			Parking Lot	
				People Counting	
				Mixed-Traffic Detect	ion
				Search Data	
				Face Recognition	
0 0	• •				Ø

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<u>•</u>	E Level 5 2022-03-31 16:13:14 192.168.4 IF V1 Motion Detection Ended Current Server: IN: IM 4 IM		
No.	Description		
A	The control panel lists icons of functional modules of the software client. Click an icon to open the corresponding page.		
В	Common function area. You may drag an icon to switch position with another icon, or drag it to the basic function area.		
С	Basic: A module provides some basic functions. You can drag the module or its icons to change the position (e.g., drag an icon to the common function module).		
D	Smart: A module provides some smart functions. You can drag the module or its icons to change the position (e.g., drag an icon to the common function module).		
E	Menu. Click an icon on the menu to access the corresponding module. Note : The menu items may vary with the roles the user is assigned.		
F	Change appearance. You can choose the light or the dark theme color for the client.		
G	Current username, for example, admin. To switch account and log in as a different username, click the icon.		
Н	Click to lock. To unlock, enter the password.		
I	Help button. Click to open the user manual for the client software. A PDF reader tool is required.		
J	Alarm Live View button. Click to open the Alarm-triggered View window.		
К	Search for recordings and download.		
L	Task Management button. Click to view recording download tasks, including file name, recording start time and end time, download progress. The Operation column includes icons that you may click to stop download, open folder or delete download tasks.		
	To stop a download task, select the task and then click Stop Download		
	To clear completed tasks, click 🔟 .		
Μ	 Latest Alarm button with the number of unacknowledged alarms. Click this button to open the Latest Alarm tab, on which information including alarm time, alarm source, alarm type, and alarm level is displayed. To turn on or off alarm sound, click the alarm sound icon. To enable or disable alarm-triggered live video, select or clear the Display Link Video check box. 		

No.	Description	
N	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 the 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.

7 Live View

View live videos of the scene remotely from cameras in client windows or monitors. Live view resources include video channels, resources in favorites, recent live videos, views, sequence resources, and view sequence.

7.1 Glossary

- Live view: View live video.
- Video channel: Camera.
- View: A combination of screen layout (such as 4-window) and video service (live view or sequence). By saving a view, you can quickly restore video service in the set layout by clicking the **Play** button. See View.
- 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.
- Sequence resource: A sequence resource consists of several cameras that you want to play for live view on the client in sequence at a set time interval.
- View sequence: Sequence views by a set time interval or a 24H plan.

7.2 Play Live Video

Play live video from online cameras.

- Online: 🥪 206.9.252.2_V_11
- Offline: Vig 206.9.252.2_V_12

😿 Note:

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

7.2.1 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.

7.2.2 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.

7.2.3 Play a View

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

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	C	5	 (+ ∦ iii)
Enter Keywou View 1 ≔	rds 2		0
Click the View ta	b (🔳).	

Click the **Play** button (**>**) for the view you want to play.

Click +, N, in to add, edit or delete a view.

7.2.4 Play a Sequence Resource

Play live video from multiple cameras in one window in sequence. The cameras switch automatically in the set order at the set time interval. The sequence resource must be configured first (see Sequence Resource).

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Enter Seyw	ords		+ / W
C Sequi	ence Resource	. 2	
Click the Seque	nce Resource t	ab (🛛 💽).

Double-click the sequence resource or drag it to a window.

Click 🕂, 🧪, 📺 to add, edit or delete a view.

7.2.5 Play a View Sequence

Sequence views by a set time interval or a 24H plan. The View Sequence must be configured first.

	C	0	-
		(+ 🥢 i
Enter Neywor	ds		6

Click the **Play** button () for the view sequence you want to play.

Click +, \nearrow , \overline{m} to add, edit or delete a view sequence.

7.3 Live View Operations

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

7.3.1 Live View Toolbar

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

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⊞-	Es	×	60	ы		ы	КЛ КЛ	
No.	No. Description							
A			Click to set screen layout or customize one. Up to 64 windows are allowed.					
В		Clic	k to save the cu	irrent view or sa	ave as	another	view.	

No.	Description
С	Close video in all windows.
D	Take a snapshot in all windows. The snapshot mode, snapshot format and storage path are configurable in client configuration.
E	Play the previous camera in a sequence resource.
F	Pause/resume sequence.
G	Play the next camera in a sequence resource.
Н	Play in full screen or exit. You may also press < Esc > to exit full screen.

7.3.2 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.

ଭ 🛱 ଡ଼ି ପ ଏ 🕇	
No.	Description
1	Take a snapshot and save it to your client computer. The snapshot mode, format and storage path are configurable in 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).
2	Click to start local recording (record video to your client computer). Click 譯 to stop.
	Note: The storage path is configurable in Client Configuration.
3	Click to open the PTZ control panel (see PTZ Control).
	The fisheye icon papears on the toolbar for a fisheye camera only. Clicking the icon will open the fisheye control panel (see Fisheye Control).
4	Click to enable digital zoom. Drag on the image to draw an area to zoom in on, and then use the scroll wheel to zoom in or out. Click
5	Adjust the output sound volume on your client computer or mute.
6	Two-way audio.
	Note: Devices that are connected via the VSS do not support two-way audio.
7	Instant playback (play video of the last 5 minutes and 30 seconds).
	 Click II to pause, click > 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 the VMS. Live video does not resume automatically when instant playback stops at the end. You need to resume live video manually.
8	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 client.

No.	Description		
9	Click to set video settings, including image brightness, saturation, contrast and sharpness. Click Reset to restore default settings.		
10	The button appears only when the live video is from a multi-lens camera. Click to enable multi- sensor mode, and then you can view live video from all the channels of the camera (including channels of a multi-lens camera connected to an NVR). Click the button again to exit.		
	Note: The multi-sensor mode is available when the multi-lens camera or the connected NVR is added to the platform via the private or Onvif protocol.		
11	Current bit rate and resolution (example).		

😴 Note:

- The Enable Tracking Mode and Disable Tracking Mode buttons () appear on the window toolbar when you play the main stream of a multi-lens camera for which a smart function (e.g., cross line detection) has been enabled. When tracking mode is enabled, the window is split into multiple windows: one big window showing the panoramic image, and multiple small windows showing PTZ images. The boxes on the panoramic image match the PTZ images. When you drag a box or scroll the mouse wheel on a box, you will see the image changes in the corresponding PTZ window.
- Enabling tracking mode will disable digital zoom.

> Note:

Z

Box-Dome Linkage means the dome camera can automatically track an object that triggers a detection rule in the detection area on the live view image of the box camera. The following icons can be found on the live view window toolbar of the box camera if box-dome linkage is configured.

- Auto Track (): (Default icon) Mouse operations are not effective on the live view images of the box and dome cameras.
- Track (): The dome camera starts tracking a target (e.g., an intruder) when you click the target in the red box on the live view image of the box camera.
- Drag to Zoom (E___): Dragging on the live view image of the box camera will zoom in accordingly on the corresponding area on the live view image of the dome camera.
- Link (Context): The dome camera automatically rotates to a position when you click it on the live view image of the box camera. You can also use the shortcut menu to use the above features. Box-dome linkage and digital zoom cannot work simultaneously. Enabling one will disable the other.

7.3.3 Shortcut Menu

A shortcut menu appears when you right-click a window playing live video (menu items may vary depending on camera, version, user permissions). Some menus have the 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 <u> </u>
Tracking Mode	Enable/disable tracking mode. See 🔠 on the window toolbar.
Instant Playback	Start/stop instant playback. See <u> o</u> on the window toolbar.
Two-way Audio	Start/stop two-way audio. See 📝 on the window toolbar.
VCA Rule	Display/hide detection box, object box, or tripwires on the image.
Stream Type	 Choose a stream type to play (main, sub, third). ➢ Note: The stream type available may vary with camera. An unsupported stream type (e.g., MJPEG video stream) is not displayed.
Snapshot	Click to take a snapshot. See 👩 on the window toolbar.
Continuous Snapshot	Click to take multiple snapshots. The snapshot mode, snapshot format and storage path are configurable in client configuration.
Snapshot All	Click to take a snapshot in all windows. See 🐻 on the live view toolbar.
Local Recording	Start/stop local recording (to client computer). See 🗾 on the window toolbar.
Central Recording	Start/stop central recording (to VMS). Closing the window or logout will also stop central recording. Video recorded by central recording is saved on the VMS, so choose Center to play back.
Alarm Output Control	See 🔜 on the window toolbar.
PTZ Control	Click to open the PTZ control panel for a PTZ camera. See 🏠 on the window toolbar.
Video Settings	Click to set video settings, including image brightness, saturation, contrast and sharpness. See on the 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. You can click to reset the current information.
Client Configuration	Open the client configuration window. See Client Configuration.
	l.

7.3.4 Other Operations

The following introduces some useful operations during live view.

• Custom layout: Follow the steps to customize a layout (up to 8 custom layouts are allowed). Drag the mouse to select the windows to combine. To cancel, click the combined window and then click **Undo**. The created layout is saved for use in live view, view, and people counting.

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	3 Add	Delete		С X 3	0]	(Combine	Uado
		12						
Custon								
Edit								
Default								
1								
10							+	
			5 Drag	your sours to	select.		-	
110							🚺 💷	Cancel

• Right-click a camera to select a stream type (main, sub, third). The stream type available may vary with camera. An unsupported stream type (e.g., MJPEG video stream) is not displayed.



Search with keyword. Enter a keyword in the *Enter Keywords* Sield, 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.



After maximizing a window in a multi-window layout, you can click



to view the video playing

in the previous or next window.



- 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.



7.3.5 Favorites

Put cameras to Favorites folders. A camera may belong to one Favorites folder only.

7.3.5.1 Add Favorites

v 🛈 🔂	b ^		
Enter Keywords	1) Add Favori	worites	- >
206.9.251.111_V_1 206.9.251.112_V_1 206.9.251.133_V_1 206.9.251.142_V_1 206.9.251.143_V_1 206.9.251.143_V_1		Enter Keywords	
		OKO	Cancel

- ^{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**.

After a camera is added to a Favorites folder, you will see 👷 when the mouse pointer is hovering over the camera.



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



7.3.5.2 Delete Favorite

To delete a camera from a Favorites folder:

- On the Favorites tab, click to select the camera, and then click the Delete button (📺).



7.3.5.3 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.

7.3.5.4 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 (

6	-	b ^
		B (<u>m</u>
Enter Keyw	ords	8
🗆 📄 My Fa	avorites 🕒	
M 📴 🖞	y Favorites1 206.9.251.10	New Folder 9_V_1

- To delete a Favorites folder: Click to select the Favorites folder and then click the **Delete** button (iii).
 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.

6-	5		^
			⊡
Enter Keyw	ords		8
🗆 📴 My Fa	avorites		
Ь. 🔁 М	ly Favorites1	🗐 🥒	
6	206.9.251.10	9_V_1 Rer	name

7.3.6 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 (m) will clear the history.

7.3.7 PTZ Control

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

Note:

- PTZ control is applicable to PTZ cameras only and may vary depending on the functions and protocols supported by the PTZ cameras. Please complete the settings before using PTZ control.
- PTZ cameras that are accessed via VSS protocol do not support light and snow removal.

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.

Button	Description
192. 1 🚹	Lock/unlock PTZ. When PTZ is locked, only admin can operate the PTZ; other users cannot operate the PTZ.
	Note: This function is only available to admin.
	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; 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.
(+ [9] -	Adjust focus to achieve the desired effects.
+ Q -	Adjust the zoom to zoom in or out.
	Note: You may also click anywhere on the image and then use the scroll wheel to zoom in or out.
+ 💮 -	Adjust the iris of the PTZ camera.
Q	When 3D positioning is enabled, click anywhere in the live view window to rotate the PTZ camera to that direction. Click and hold the mouse button, and then drag from top down (draw a rectangle) to specify an area. Dragging reversely (from down top) will zoom out.
Speed: - +	Adjust rotation speed.
4	Set a preset.
	 Click + to add a preset, and the current direction will be added to the preset list.
	 Click A to go to the selected preset.
	• Click 🔟 to delete a preset.
	Note: Select a preset number not in use when adding a preset, otherwise the existing preset may be replaced.
ಹೆ	Set a patrol, including preset patrol and recorded patrol.
	 Preset patrol: The PTZ camera patrols automatically by presets in the specified order at the set interval. Click + to add a patrol route. In the Add Patrol window, click Add to select a preset from the drop-down list

Button	Description
	(or create one by clicking New Preset), and then set the duration that the camera stays at the preset. Repeat the above steps to add all presets, and then adjust the sequence of these presets. Click <i>to</i> edit the created preset patrol.
	 Recorded patrol: The PTZ camera patrols by a recorded patrol route. To record a patrol route, click o to start recording, and steer the camera to the desired directions and stay for a certain time. Click o to finish recording. To start patrol, select a route from the drop-down list and click
	Note:
	• Up to 32 presets in a patrol route are allowed, and up to 15 patrol routes are allowed for a PTZ camera.
	Currently only one recorded patrol route is allowed.
•	Set auto guard. When Auto Guard is enabled and configured, the PTZ camera automatically operates as configured if no operation is performed during a certain time period, such as going to a preset or starting patrol.
ଙ୍କ	Turn on or off the light.
8	Turn on or off the wiper.
•))	Turn on or off IR.
*	Turn on or off the heater.
÷.	Turn on or off snow removal.

7.3.8 Fisheye Control

A fisheye control icon (1/2) appears on 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.

8 Playback

Play back videos saved on an SD card, NVR, or VMS to review an event. The various playback modes and colordifferentiated recording types on the playback progress bar enable user to quickly find the target contents from a large volume of videos. Playback modes include normal recording playback, tag recording playback, locked recording playback, event recording playback, and VCA recording playback.

8.1 Glossary

- Video channel: Camera.
- Recording source: Indicates where a recording is saved. Three types of recording sources: center, device, and backup.
- Center: Means recordings are saved on the VMS.
- Device: Means recordings are saved on an NVR or IPC.
- Backup: Recordings that are automatically replicated from NVR to the VMS by schedule.
- Playback types: See Playback Modes.
- Lock: A feature that enables you to lock important recordings to prevent them from being overwritten when storage space is used up.
- Tag: A feature that allows you to tag events when reviewing a recording and locate the events through the tags afterwards.
- Play to Video Wall: Play recordings on the video wall.
- Smart search: Smart recording playback searches recordings with custom criteria (search area and sensitivity) for video of interest (video with changed images).
- Calendar: A feature that uses different colors to indicate whether recordings exist on a day and the recording type. Blue means normal recording, red means event recording, and white means no recording.

8.2 Playback Modes

The software client offers multiple playback modes for you to choose from the top-left drop-down list.

The playback mode supported, functions available, and operations allowed may vary depending on the recording source. 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	Search and play tagged videos. Only available to center recordings (recordings saved on the VMS).
Locked recording playback	Search and play locked videos. Only available to center recordings (recordings saved on the VMS).
Smart recording playback	Smart recording playback searches recordings with custom criteria (search area and sensitivity) for video of interest (video with changed images) and plays back in an efficient way: video of interest plays at normal speed; other irrelevant videos play at a high speed.
Event recording playback	Search and play recordings triggered by an event (such as motion detection, alarm input and video loss).
VCA recording playback	Audio detection, face detection, cross line detection, intrusion detection, defocus detection, scene change, elevator entrance detection, auto tracking, object left behind, object removed, human body detection, high-rise littering. Center and device recordings support VCA recording playback.

8.3 Playback Page

The page displayed, functions and operations may vary with playback mode. Take normal playback as an example. Take normal playback as an example.



The page is divided into 4 areas:

- Search area (1): You can set search criteria in this area, including playback mode, organization/camera, and search date/time.
- Play area (2): You can set the window layout in this area. You may drag the left border to adjust the width of this area.
- List area (3): This area displays search results. You may hide this area by clicking the arrow.
- Control area (4): This area includes toolbars and timeline.

8.4 Search for Recordings

Search and playback operations may vary with the playback mode you choose. The general steps are similar:

- 1. Choose the playback mode from the top left drop-down list.
- 2. Choose organizations or cameras.
- Set a search date or period. In normal and smart playback modes, you may use the calendar to tell whether recordings exist on a day and the recording type.
- 4. Click Search.

😴 Note:

- The software searches all recording sources and shows search results on the timeline and the list.
- Smart recording playback will be described separately in Smart Recording Playback.
- Event recording playback includes multiple sub-types. See Event Recording Playback.
- VCA recording playback includes multiple sub-types. See VCA Recording Playback.

8.5 Smart Recording Playback

Smart recording playback searches for recordings of interest (videos with changed images) based on the custom criteria including sensitivity and search area. The search results will be marked with specific colors on the timeline and you can view the recordings at different speeds. This function helps users filter irrelevant recordings and view recordings of interest efficiently.

😴 Note:

- This function is available only to the IPC/NVRs accessed via private protocol, and the IPC must support the smart recording function.
- For device recordings (video stored on NVR), this function is only available to certain NVR versions.

- 1. Select SmartRecording Playback.
- 2. Select a camera.
- 3. Choose a date with recordings based on the search results on the calendar (cross-day search is not supported).
- 4. Click **Search**. Search results appear on the timeline. Green means video of interest (video with changed images).



- 5. Click 👞 to zoom in on the time line scale so you can have a better view of details and click on the timeline to start playback from that point.
- 6. To edit the search area (covered with red grid): click 🔽 , click to edit or press and hold the left button to

draw. Click 🔜 to clear all; click 📃 to restore the search area to full screen. Click 🗔 to finish drawing. The red grids on the screen disappear.

- 7. Adjust search sensitivity. The higher the sensitivity, the more likely that tiny motion activity will be detected.
- 8. Once completed, click Q to search recordings by the modified criteria. Search results will be automatically updated on the timeline. Recordings of interest play at normal speed; other irrelevant recordings play at a faster speed to save time.

🔁 Note:

- The changed settings (search area and sensitivity) will be saved and applied to other cameras; but the smart search area automatically restores to full screen after you close the **Playback** page or log out of the system.
- If smart playback is performed on different clients at the same time, the last performed operation overrides the previous, and other clients may see inconsistent smart search results and playback speed.

8.6 Event Recording Playback

Event recording playback has three sub-types: motion detection, alarm input and video loss. You may search a specific type of event recording or choose **Event Recording Playback** to search all.

- Motion detection: Recording triggered by a motion detection alarm.
- Alarm input: Recording triggered by an alarm input.
- Video loss: Recording triggered by a video loss alarm.

The search and playback operations for these sub-types are the same.



8.7 VCA Recording Playback

Select VCA Recording Playback to search all VCA recordings, or select a sub-type to search. The sub-types include:

- Audio detection: Recording triggered by an audio detection alarm (for example, when a loud sound is detected).
- Face detection: Recording triggered by a face detection alarm (when a face is detected).
- Cross line detection: Recording triggered by a cross line detection alarm (for example, when someone crossing fences is detected).
- Intrusion detection: Recording triggered by an intrusion detection alarm (for example, when an intruder entering a restricted area is detected).
- Defocus detection: Recording triggered by a defocus alarm (when the camera is defocused).
- Scene change: Recording triggered by a scene change alarm (for example, when the surveillance area is changed abnormally).
- Elevator entrance detection: Recording triggered by a elevator entrance detection alarm (for example, when a non-motor vehicle entering an elevator is detected).
- Auto tracking: Recording triggered by an automatic tracking alarm (for example, when a object in a specified area is detected).
- Object left behind: Recording triggered by an object left behind alarm (for example, when baggage is left behind by a guest).
- Object removed: Recording triggered by an object removed alarm (for example, when an item on an exhibition is missing).
- Human body detection: Recording triggered by a human body detection alarm (when a human is detected).
- High-rise littering: Recording triggered by a high-rise littering alarm (when a high-rise littering object is detected).
- Ultra Motion Detection: Recording triggered by an ultra motion detection alarm (when a moving motor-vehicle, non-motor vehicle, or pedestrian is detected).

The search and play operations are the same for different event types.



8.8 Start Playback

Playback starts automatically in some playback modes. In other modes, you need to double-click the file or click the **Play** button to start playback.



8.9 Playback Control

Use the playback toolbar, window toolbar, timeline, shortcut menu to control playback.

8.9.1 Playback Toolbar

The playback toolbar is at the bottom of the playing area. When multiple windows are playing, playback control is effective to the selected window only. The toolbar may vary with playback mode. Here we take the toolbar in normal recording playback as an example.

a e	© © Ø Ø Ø Ø Ø Ø Ø Ø							
⊞ • ⊠								
No.	Description							
A	Set screen layout.							
В	Close all windows.							
С	Take a snapshot in all windows. The snapshot mode, format and storage path are configurable in Client Configuration.							
D	Lock recording (center recordings only).							

No.	Description
E/F	Create tags (center recordings only), including default tag and custom tag.
G	Normal playback or synchronous playback.
	• Normal playback: Video plays in the windows independently, and actions (such as pause/resume, stop or adjust time) to one window do not affect other windows.
	• Synchronous playback: Video play in all windows in a synchronous manner; and actions (such as pause/resume, stop, adjust playback time) are effective to all windows.
H/M	Rewind or forward 30s
I/L	Rewind by frame and forward by frame. Click repeatedly to view the last/next frame of images.
	Solution 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 Play button to resume normal playback.
J/K	Pause/resume, stop.
N	Adjust playback speed. Multiple options are available. + means playing forward, - means playing backward.
0	Download recording (see Download Recordings).
Р	Switch to or exit full screen. You may also press <esc></esc> to exit full screen.

8.9.2 Window Toolbar

The window toolbar appears when the mouse pointer rests anywhere on the window during playback. The window toolbar is effective to the window only.

5

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-	U	-	-

000	
	6.16Mbps, 2560x1440)
No.	Description
1	Take a snapshot and save it to your client computer. The snapshot mode, format and storage path are configurable in 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).
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 is to specify the start point, and click is to specify the end point. Edit the start and end times in the dialog box if necessary. Note: You may click on the timeline to locate the end of the video to download.
4	Adjust sound volume on your client computer.
5	Current bit rate and resolution.

Note:

- The fisheye icon is appears for a fisheye camera only. Clicking the icon will open the fisheye control panel (see Fisheye Control).
- You may set the stream transmission protocol in accordance with network performance to improve image quality. See Stream Transmission Protocol in Client Configuration.



- The Enable Tracking Mode and Disable Tracking Mode buttons () appear on the window toolbar when you play the main stream of a multi-lens camera for which a smart function (e.g., cross line detection) has been enabled. When tracking mode is enabled, the window is split into multiple windows: one big window showing the panoramic image, and multiple small windows showing PTZ images. The boxes on the panoramic image match the PTZ images. When you drag a box or scroll the mouse wheel on a box, the image will change in the corresponding PTZ window.
- Enabling tracking mode will disable digital zoom.

8.9.3 Shortcut Menu

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

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 window to the entire play area.
Full Screen	Display the current window layout in full screen mode. Uncheck the menu or press < Esc > to exit.
Digital Zoom	Enable/disable digital zoom. See 🎧 on the window toolbar.
Tracking Mode	Enable/disable tracking mode. See 🔛 on the window toolbar.
Play To Video Wall	See Play Recording on Video Wall .
Snapshot	Click to take a snapshot. See 👩 on the window toolbar.
Continuous Snapshot	Click to take multiple snapshots. The snapshot mode, snapshot format and storage path are configurable in Client Configuration.
Snapshot All	Click to take a snapshot in all windows. See 🔢 on the playback toolbar.
Start Clipping/Stop Clipping	Clip video to download. See 🛒 on the window toolbar.
Download	Download recordings (see Download Recordings).
Camera Info	View frame rate, resolution, compression format (e.g., H.264), bit rate, and packet loss rate of the video playing in the window. To clear the data, click Reset .

8.9.4 Timeline

The timeline appears in normal and smart recording playback modes. The blue part on the timeline means normal recording, the red means event recording (alarm), and purple means VCA recording. Use the timeline to switch the recording source (center, device or backup), view recording type (normal or event), and perform search and play operations.



- A: Source of recording. Click a timeline to switch the source.
- B: Channel name.
- C: Lock symbol (if video is locked)
- D: Tag symbol (if video is tagged)
- E: Zoom in/out on the timeline. You can see the details better when the timeline zooms in.
- F: Search date. Click to search other dates in the pop-up calendar.
- G: Search forward/backward.

Note:

You can rest the mouse pointer on the timeline or progress bar to preview the image at this point.



8.9.5 Search Result List

Search results are sorted by channel and recording source in the list on the right. Contents on the list may vary with playback mode. Take normal recording playback as an example.Double-click an item or click the **Play** button to play.



8.10 Recording Download

8.10.1 Download Recordings

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

• **Option 1**: After completing a search, click the download button (<u>⊥</u>) on the playback toolbar. Select items to download and then click **Download**. To select all the items displayed, click √.

Ву	7 File By Time	By Tag	By Lock			
1	Video Channel	Start Time	End Time	Total Length	Recording Type	Source
	206.9.251.133_V_1	2018-07-10 00:00:00	2018-07-10 00:02:49	00:02:49	Normal	Center
	206.9.251.133_V_1	2018-07-10 00:02:49	2018-07-10 00:06:50	00:04:01	Event	Center
	206.9.251.133_V_1	2018-07-10 00:06:50	2018-07-10 00:11:37	00:04:47	Normal	Center
	206.9.251.133_V_1	2018-07-10 00:11:37	2018-07-10 00:12:43	00:01:06	Event	Center
	206.9.251.133_V_1	2018-07-10 00:12:43	2018-07-10 00:13:05	00:00:22	Normal	Center
	206.9.251.133_V_1	2018-07-10 00:13:05	2018-07-10 00:19:05	00:06:00	Event	Center
	206.9.251.133_V_1	2018-07-10 00:19:05	2018-07-10 00:22:03	00:02:58	Normal	Center
	206.9.251.133_V_1	2018-07-10 00:22:03	2018-07-10 00:32:16	00:10:13	Event	Center
	206.9.251.133_V_1	2018-07-10 00:32:16	2018-07-10 00:37:02	00:04:46	Normal	Center
	206.9.251.133_V_1	2018-07-10 00:37:02	2018-07-10 00:42:02	00:05:00	Event	Center
	206.9.251.133_V_1	2018-07-10 00:42:02	2018-07-10 00:45:50	00:03:48	Normal	Center
	206.9.251.133_V_1	2018-07-10 00:45:50	2018-07-10 00:49:22	00:03:32	Event	Center
	206.9.251.133_V_1	2018-07-10 00:49:22	2018-07-10 00:54:08	00:04:46	Normal	Center
	206.9.251.133_V_1	2018-07-10 00:54:08	2018-07-10 01:02:04	00:07:56	Event	Center
ownlo	ad Speed 💿 High Speed 🔵	Normal Speed			Remai	ining disk space 43.

Click the tabs to switch the download method:

- By Time: You can set a precise time period, or create tasks to download video of a future period from a specified source.
- By Tag: Download tagged videos.
- By Lock: Download locked videos.
- Option 2: During playback, use and and an on the window toolbar or Start Clipping and Stop Clipping on the shortcut menu.

Clip			□ ×
Video Channel	206.9.252.10	_V_24	
Start Time	2017/7/27 11:	56:21	
End Time	2017/7/27 13:	56:21	*
Download Speed	 High 		rmal
		_	
	OK		Cancel

- **Option 3**: During playback, right-click the window and click **Download** on the menu.
- Option 4: Click the Recording Download button (📰) in the left corner.

Center	Device							
V 5			By Time	By File	By Tag	By Lock		
Enter Keywords		© c	hannel Name:	A11	- Recording Type	All 👻		
🗗 🔄 🛄 206.9.252	2.14(16/28)	^	√ Chan	nel Name	Start Time	End Time	Total Length	Recording Type
🕒 🗌 🛗 206.9.252	2.14(16/28)						-	Normal
🕒 🗌 🛗 206.9.252	2.15(20/31)			251.133_V_1	2018-07-09 00:00:00	2018-07-09 04:01:57	04:01:57	
🗗 🔄 🔛 206.9.252	2.16(1/14)		206.9.2	251.133_V_1	2018-07-09 05:07:32	2018-07-09 08:06:54	02:59:22	Normal
₽- № 206.9.252	2.17(12/32)		206.9.2	251.133_V_1	2018-07-09 08:06:54	2018-07-09 09:06:35	00:59:41	Event
	2.2(13/18)		206.9.2	251.133_V_1	2018-07-09 09:07:25	2018-07-09 12:47:05	03:39:40	Event
⊕-			206.9.2	251.133_V_1	2018-07-09 12:47:05	2018-07-09 12:47:31	00:00:26	Normal
D- 206.9.252	2.9(7/10)		206.9.2	251.133_V_1	2018-07-09 12:47:31	2018-07-09 12:49:41	00:02:10	Event
- 06.9.251	l.133_V_1 😭		206.9.2	251.133_V_1	2018-07-09 12:49:41	2018-07-09 12:50:33	00:00:52	Normal
- 🗌 🖨 206.9.251	L.138_V_1		206.9.2	251.133_V_1	2018-07-09 12:50:33	2018-07-09 12:51:39	00:01:06	Event
- 🗌 🖙 206.9.251	L.143_V_1		206.9.2	251.133_V_1	2018-07-09 12:51:39	2018-07-09 12:51:43	00:00:04	Normal
206.9.251	l.168_V_1		206.9.2	251.133_V_1	2018-07-09 12:51:43	2018-07-09 12:55:11	00:03:28	Event
tart Time			206.9.2	251.133_V_1	2018-07-09 12:55:11	2018-07-09 12:55:15	00:00:04	Normal
2018/7/9 0:00:00			206.9.2	251.133_V_1	2018-07-09 12:55:15	2018-07-09 12:57:17	00:02:02	Event
nd Time			206.9.2	251.133_V_1	2018-07-09 12:57:17	2018-07-09 12:57:21	00:00:04	Normal
2018/7/10 23:59:59			206.9.2	251.133_V_1	2018-07-09 12:57:21	2018-07-09 12:59:39	00:02:18	Event
Sea	u ch	D	lownload Speed:	• High Speed	Normal Speed			Remaining disk space: 43.2

8.10.2 Download Task Management

Click the Task Management button 📄 (see GUI Introduction) to view download progress, stop download, play

a downloaded recording, open the folder where the downloaded recordings are saved, or to delete a download task. Deleting a download task does not delete the recording that has been downloaded; and closing the Task Management dialog box does not affect download tasks.

Stop Download				mi c	lear Fir	ished Ta
	File Name	Start and End Time	Download Progress	Opera	ation	
206.9.251.133_V 206.9.251.133_V		Start Time:2018-07-09 12:55:15 End Time:2018-07-09 12:57:17	0% Waiting			
206.9.251.133_V 206.9.251.133_V	-	Start Time:2018-07-09 12:51:43 End Time:2018-07-09 12:55:11	18% Downloading			
206.9.251.133_V 206.9.251.133_V	_1 _1_S20180709124731_E20180709124941	Start Time:2018-07-09 12:47:31 .mp4End Time:2018-07-09 12:49:41	100% Finished			竝
206.9.251.133_V 206.9.251.133_V	_1 _1_S20180709124705_E20180709124731	Start Time:2018-07-09 12:47:05 .mp4End Time:2018-07-09 12:47:31	100% Finished			Delete

8.11 Other Operations

8.11.1 Play Recording on Video Wall

Use the shortcut menu to play recordings on a video wall. You need to create a video wall first.



This function is not available in smart recording playback mode.



8.11.2 Favorite

Put cameras to Favorites folders. See Favorites.

8.11.3 Tag

Use tags to mark events in video images and then use tagged recording playback to locate these events afterwards.

You may create tags in normal playback mode only, and only center recordings can be tagged.

Create tags

- To create a tag quickly without pausing playback, click \mathbb{R} . Tags created in this way are all named TAG. You may rename tags on the **Tags** tab.
- To create a tag with a custom name, click 🛃. Playback pauses when you click this button, and resumes when the tag is created.

The tags appear on the Tags tab. To play a tagged recording, double-click it or click the Play button (

Recordings ^	
Tags 🗸	
Start Before(s) 30	
Enter Keywords 🛛 🗶	
▲ 206.9.251.133_V_1	
1 patrol 2018-07-09 00:45:16	
2 patrol 2018-07-09 01:41:12	
TAG 2018-07-09 02:03:53	
TAG 2018-07-09 11:48:51	
TAG 2018-07-09 13:56:11	ļ
TAG 2018-07-09 15:28:09	
TAG	
Locked Recordings 🔷	

😴 Note:

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

Tagged recording playback

Search and play tagged recordings.

- 1. See Search for Recordings for the search steps. Choose Tagged Recording Playback from the drop-down list.
- 2. On the **Tags** tab, double-click an item or click the **Play** button (**D**) to play.
- Click
 i to rename a tag; click
 i to delete a tag.
- 4. The default length of a tagged recording is 1 minute (30 seconds before and after the tag time). You may edit **Start Before** and **Stop After** to change the length.

Tags		~
<i>译</i> 前		
Start Before(s)	30	
Stop After(s)	30	
Enter Keywords		×
▲ 206.9.251.133_V_1		
1 patrol 2018-07-09 00:45:16		
2 patrol 2018-07-09 01:41:12		
TAG 2018-07-09 02:03:53		
TAG 2018-07-09 11:48:51		
TAG 2018-07-09 13:56:11		
TAG 2018-07-09 15:28:09		
TAG 2018-07-09 15:	56:27	
TAG 2018-07-09 16:	51:56	

8.11.4 Lock

Lock important recordings to prevent overwriting them when storage space is used up. Use locked recording playback to search and play locked videos.

You can lock recordings in normal playback mode only, and only center recordings can be locked.

Lock recording

During playback, click to specify the start point, and click it o specify the end point. Edit the start and end times and enter remarks (e.g., reason for locking) as needed. Video between the start and end times are locked.
Details			×
Video Channel	Fisheye_V_1]
Start Time	2017/12/20 4:39:23]
End Time	2017/12/20 6:33:29]
Remarks	Motion detected]
	OK	Cancel	
	ОК	Cancel	

2. The locked recording has a lock icon on the timeline. Click the icon to highlight the locked video on the timeline and on the **Locked** tab. To view the remarks you have entered for the lock, place the pointer on the lock icon.

/ 00:00	02:00 Motion detected	06:00	08:00

Locked recording playback

Search and play locked recordings.

- 1. See <u>Search for Recordings</u> for the search steps. Choose Locked Recording Playback from the drop-down list.
- 2. On the Locked Recordings tab, double-click an item or click the Play button () to play.
- 3. Click to unlock a recording. The recording is not protected from being overwritten; click to view details about a locked recording, including the start and end times and remarks.

Lock	ked Recording	IS	~
ſ			
⊿ Fi	sheye_V_1		
**	2017/12/20 2017/12/20		►
	2017/12/20 2017/12/20	04:39:23 06:33:29	
1	2017/12/20 2017/12/20	06:36:06 07:07:53	
.	2017/12/20 2017/12/20	08:15:28 09:08:28	
1	2017/12/20 2017/12/20	09:05:48 09:27:00	

8.11.5 Double-click a window to maximize

Double-click a window to maximize it to the entire play area. Double-click again to restore.



8.11.6 View Image Playing in the Neighboring Window

After maximizing a window in a multi-window layout, you can click or to view the video playing in the previous or next window.



8.11.7 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.



9 E-map

E-map allows user to import map images to the system and add various types of resources (camera, alarm input, access control) on the map to gain an intuitive view of the location of the monitoring points. Users can view videos and alarm information on the map and acknowledge alarms. This function supports e-map, hot spot, and hot zone configuration.

9.1 Glossary

- Hot spot: A hot spot is a video channel (camera), door access control or alarm input that is added on the map. A hot spot is displayed as an icon on the map.
- Hot zone: A hot zone is a map on a map. A hot zone is displayed as an icon on the map. You may double-click to open a hot zone and add hot spots on it. Up to 7 layers of maps are allowed.
- Map resources: including maps, hot zones and hot spots.

9.2 Map Configuration

Before you use e-map, you need to complete configurations on the Edit Map tab first. You can:

- Click Picture Management to add or delete pictures and customize icons. See Add a Map.
- Add hot spots. See Add a Hot Spot.
- Add hot zones. See Add a Hot Zone.

9.2.1 Add a Map

😴 Note:

This section describes how to add an image map. To use an online map, you need to complete configurations on the Web client at **System > Map Config**.

For first time use, click + Add Map to add pictures, up to 7 layers of maps are allowed.; or click

Picture Management to add or delete images and customize icons.



9.2.2 Picture Management

On the Map Config tab, click 🔄 Picture Management .

Click the **Map** tab to add or delete pictures. The added pictures are uploaded to the server for later use when you add hot zones.

Click the Icon tab to set default icons for hot zones and hot spots. Select an existing icon, or click + to upload

a custom icon, and then click **Set as Default**. The selected icon will be used when you add a new item. Click **Delete** to delete unneeded icons. Only custom icons can be deleted.

		- x
Map	Icon	
Note: Best image reso	olution is 24*24(pixel) and max size is 100K.	
Hot Zone	Set as Default Delete	
+		
PTZ Camera	Set as Default Delete	
Q Q 3	₹ [+]	
Non-PTZ Camera	Set as Default Delete	
\$ \$ X	+	
Detector	Set as Default Delete	
Access Control	Set as Default Delete	
+		

Click the buttons to edit or delete map resources as needed.

Map	Edit Map	
Picture I	Add Hot Zone	
Map Resources	i)
✓ Somer Tow ✓ Somer Tow ✓ Waterloo S		× + -

😴 Note:

- Pictures added under **Picture Management** > **Map** are all uploaded to the server for use when you add hot zones. Only pictures being used by hot zones are displayed as map resources in this list.
- JPG, PNG, and BMP images are supported.

9.2.3 Add a Hot Spot

Add hot spots (such as cameras) so you can quickly locate them on the map when any event occurs. This section takes camera as an example to describe how to add a hot spot. The steps to add other hot spot types are the same.

- 1. Click the Video tab (). To add a hot spot of other types, click the corresponding tabs.
- 2. Drag the camera to the intended location on the map.
- 3. (Optional) Right-click the icon to change its name, icon and icon color.
- 4. Click the **Map** tab to view the added hot spots.



9.2.4 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 when you double-click it.

- 1. Click Add Hot Zone . A dialog box appears.
- 2. Enter a name for the hot zone, and choose the desired icon and icon color.
- 3. Select a picture for the hot zone (or click **Add Picture** to add one), click the **Add** button.
- 4. The hot zone appears on the map and the Map Resources list on the left.
- 5. Drag the hot zone icon to the intended location on the map.
- 6. To edit the hot zone, right-click the icon and then click Edit (or click the Edit button on the top).
- 7. To delete the hot zone, right-click the icon and then click **Delete** (or click the **Delete** button on the top).



9.3 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.
 - **Note:** For fisheye camera, click not be window toolbar to open the fisheye control panel to operate the live view.
- Playback: Search and play recorded video of a camera. Right-click the hot spot icon and select **Playback**.
- Play live video to video wall: Right-click a video channel on the map and select Play to Video Wall. Select the video wall, stream type, window or screen, and then click Play to Video Wall. You may also click the button



• 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 the desired types of hot spots (for example, Video) on the top to show certain type(s) of hot spots on the map.
- Select hot spots or hot zones: Click Select and then 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 **Play to Video Wall, Live View** or **Playback** as needed.
- 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 the map is zoomed in, you may drag the highlighted area in the small window (in the lower right corner) to locate on the main map.



• Locate a hot spot or a hot zone on map: click **Q**. The hot spot or hot zone icon is located on the map highlighted.

Мар	Edit Map		
Map Resources			Select
4 Nondon			
Somer Tov	wn	•	
Waterloo S	Station	Ĺ	+ -

10 Video Wall

Video wall refers to a large physical display wall consisting of multiple monitors or display devices.

You can play videos to a video wall to view events intuitively on the wall, and turn on/off the screen automatically at a set time or manually. It can be widely used in various scenarios such as park monitoring center and command center.

The available video resources include video channels, signal sources, scenes, sequence resources, scene sequence, and resources in favorites.

10.1 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.
- Decoding channel: Output port of a decoding device.
- Video channel: Camera.
- Bind: Link a video wall screen to 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.
- Virtual LED: Static or dynamic text displayed on top of video images on the video wall.
- Scene: Saved 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 just one click of a button without repeating the configuration.
- Signal source: Some decoding devices have DVI-D and VGA video interfaces, and signals from these video interfaces are known as signal sources.
- Window: Some DX video walls require you to open windows on the client software and specify the size, shape, position of the windows, so as to play videos on the corresponding areas on the physical video wall.
- Roam: A feature that allows you to drag a window to the desired position on the video wall along with the video image playing in this window.
- Small pixel pitch LED: A feature designed for small pixel pitch LED screens.

- Auto-bind channel: A feature that automatically binds decoding channels to screens when you create a new video wall.
- Open window: A feature that allows you to open multiple windows at a time by just clicking the **Open Window** button. You may choose a preset window layout or customize one.
- Preview: Live view on your client computer, and use the shortcut menu to adjust display ratio, enable/disable digital zoom, two-way audio, snapshot, record video, alarm output control, change stream type and video settings, and open the PTZ control panel.
- Screen control: Turn on/off all screens of a video wall on the software client.

10.2 Video Wall Types

The video wall types that the software client supports, the corresponding devices, and some supplementary information are provided in the table below.

Video Wall Type	Device	Remarks				
DC video wall	Built-in DC Certain decoder models	A DC video wall can use decoding channels of a built-in DC and decoding channels of an Xware device simultaneously.				
DX video wall	Certain decoder models	A DX video wall cannot use decoding channels of multiple decoders simultaneously.				

10.3 Add a Video Wall

1. For 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. The following figure takes the DC video wall as an example.

Video Wall Info			□ ×
Name Video Wall 1	Size 2 X 3 🖉 Resolut	ion 1920*1080/60Hz(1080P) 💌	Auto-Bind Output Channel
Output Channel			
Q Please enter keywords			
- 🔚 DC_1			
DC_1_HDMI1			
DC_1_HIMI2	DC_1:DC_1_HIMET1	DC_1:DC_1_HIMMI2	
DC_1_VGA			
	Not Bound	Not Bound	
	ol ol		
			OK Cancel
			Saroci

2. Complete the basic settings including video wall name and size. Make sure the video wall size is consistent with the physical video wall.



If you are using small pixel pitch LED screens, enable and complete small pixel pitch LED settings properly. The special LED width refers to the width of the last column of the video wall, and the special LED height refers to the height of the last row. The unit is pixel.

3. By default **Auto-Bind Channel** is selected, and the software automatically binds decoding channels to screens based on the resolution you set. You can edit the binding by dragging a decoding channel to the intended screen.

式 Note:

- When a decoding channel is bound to a screen, i appears on the decoding channel list, and the decoding channel name appears at the screen center. To cancel a binding, click the close button in the screen's top right corner. To cancel all bindings, click i to bind all.
- You can drag a screen to switch decoding channel with another screen.
- 4. For DX video walls, if the Xware device supports the output positioning function, you can enable this function to display the channel name (format: Device IP_Channel Type_Channel No.) on the physical video walls to help you configure them intuitively.
- 5. Click **OK**.

10.4 Open Windows

Some DX video walls require you to open window(s) first before you can play live video or sequence resource on the video wall. You may open a window by dragging a camera, sequence resource or signal source to the video wall; alternatively, use the following methods.

			-	drag to open a window			
	1 206.9.10.27_V_1	● × ● (2)		2	6.9.251.133_Y_1	8) (2)	
	B C D			Ē			
₽ ♦				_	1		
••					Channel Name	Stream	Preset
C			+ s =	206.9.10		Main T	
	Playback Close Window						
			Window	Virtual LED			

- A: Follow the on-screen tip: hold down the right button and drag to open a window.
- B: Click the Open Window button, and then choose a layout or customize one (M*N).



• C: Open window by coordinates. Set the start point of the window (top left corner) and the size (unit: pixel).

After opening a window, you may:

- Drag it on the screen.
- Drag its borders to adjust size.
- Close it by clicking the close button in its top right corner; or click the **Close All Windows** (D) to close all windows.
- Click Lock All Windows (E) to lock all windows. When a window is locked, you cannot change its position and shape.

10.5 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.

10.5.1 Play Live Video on Video Wall

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

😴 Note:

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



A: Save current video wall settings including screen layout, window, and video service (live view or sequence) as a scene. To recall the settings, click > for the scene in the scene list.

6	T		~
C	=	E.	^
			+ 🖉 🖮
Enter Keya	rords		\otimes
L View	1		

• B: Splice screens. Drag to select screens (or click while pressing the **Ctrl** key). The screens you select must form a rectangular. Steps for cancellation are the same.



- C: Start/stop decoding on all screens.
- D: Click to automatically renumber all the screens in top-to-down and left-to-right order.
- E: Set screen layout (for example, 4 screens).
- F: Start/stop decoding on a selected screen.
- G: View and change the stream type.
- H: Choose a preset (applicable to PTZ cameras configured with presets).
- I: Search and playback (see Playback for details).

Sea	arch Re	cording																—X —
									Q									
•		2018		Jul		+	D = -		1x									
Sun 24	Mon 25	Tue 26	Wed 27	Thu 28	Fri 29	Sat 30	Playback Start Time	00:00:00	÷									
1	2	з	4	5	6	7	206. 2. 1. 104_V_1											+ ++
8	9	10	11	12	13	14	00:00		04:00	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00
15	16	17	18	19	20	21												
22	23	24	25	26	27	28												/
29	30	31	1	2	3	4	Backup											
								01	K	Cance	1							

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

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

- Always display a window at bottom: When multiple windows overlap, the selected window appears on the top by default. To set a window to display at the bottom, click 🖾 (or right-click the window and then choose from the shortcut menu).
- Lock/unlock a window: Click To lock the position and size of a window (or right-click the window and choose from the shortcut menu). Click To unlock.
- 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.
- Zoom in on a window: Select a single window and click 🔛 (or double-click the window, or right-click the window and choose **Full Screen** from the shortcut menu) to magnify the window to the full screen. Click 🖽 or double-click the window again to restore the window to the original size. You can drag a magnified window to relocate it, and drag its borders to resize it.
 - If there are multiple split windows, you can magnify the split window to the entire window.



• If the zoom mode in decoder's Web interface is set to **Normal Mode**, this operation can magnify a single window to the full screen of its physical screen.

• If the zoom mode in decoder's Web interface is set to **Full Screen Mode**, this operation can magnify a single window to the full screen of whole splicing screen.



10.5.2 Play Video of Multiple Cameras on Video Wall

By **Play on Screen** and **Play on Wall**, you can play videos 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.

v 🔂 📼	^	Video Wall 1 🔻 🕂 🔻	
	€	Ę	<u>p</u>
Enter Keywords	8	206.9.254.124_V_1	206.9.254.125_V_1
□·· root(148/295)	<u>^</u>		
🖽 🗌 🚠 Counting(2/2)			
🗗 🖌 🚠 Face(4/4)		Ģ	<u>ब</u>
🖌 🕪 206.9.254.124_V_1		206.9.254.126_V_1	206.9.254.127_V_1
🖌 🕪 206.9.254.125_V_1			200.0.201.121_1_1
✔ 👽 206.9.254.126_V_1			

- 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.

Operation				
😼 🖻 🛆	Video Wall 1 🔻 🛨 🔹			
	Q	C C	p	
Enter Keywords 🛞	206.9.254.124_V_1	206.9.254.125_V_1		
□ root(148/295)				
⊕· □ ≞ Counting(2/2)				206.9.254.100_V_1
□· ✓ === Face(4/4)	Q	C.	p	
- 🖌 🥪 206.9.254.124_V_1	206.9.254.126_V_1	206.9.254.127_V_1		
- 🖌 🥪 206.9.254.125_V_1				
- 🗸 👽 206.9.254.126_V_1				
└─ V V 206.9.254.127_V_1		le contra c	2	Ø×
⊕fish(1/1)				
□ IPC(22/23)				
□ - □ V 206.9.254.100(6/6)				
- 🗸 👽 206.9.254.100_V_1	206.9.254	.103_V_1		206.9.254.124_V_1
V# 206.9.254.100_V_2				
V# 206.9.254.100_V_3				
V# 206.9.254.100_V_4				
V# 206.9.254.100_V_5				
206.9.254.100_V_6				
- 🖌 🥪 206.9.254.103_V_1			Channel Name Stream	n Preset
- 🖌 🥪 206.9.254.122_V_1			206.9.254.103_V_1 Main	▼

- 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.

10.5.3 Play a Sequence Resource

Sequence resource consists of a group of cameras used to play live video on video wall screen(s) in sequence at a set time interval. You need to configure sequence resource first (see Sequence Resource).

Steps



- 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 (1) / () 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 Start			
Cam 1	Cam 2		Cam 5	
Cam 3	Cam 4			
_	Cam 6		Cam 7	
_	9681 · + · · 😢	20s		
	Cam 8	Cam 9	0	
	Cam 10	Cam 11	Cam	
	Can		Can	17
		ede: • + • 🔞) 20s	
		Cam 1	Cam 2	Cam 5
		Cam 3	Cam 4	
		Ca	m 6	Cam 7

- 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.

10.5.4 Play a Scene Sequence

Sequence scenes by a set time interval or a 24H plan. Complete the creation of scenes before you start the following steps.

1. Click to create a scene sequence plan under the Scene Sequence tab.

5			~
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			+ 🥢 🟛
Enter Keywo.	rds		2 🛛

2. Set a plan name, and add scenes to the plan. You can adjust the time interval when using the default mode. Set the sequence of scenes as needed.

cene Sequence Plan			3
Plan Name www	Sequence By	Interval (s) 304	24H Plan
Scene	Delete	Top Up	Down Bottom
Enter Keywords 🛞	~	Scene Name	
		1	
		2	
		3	
		4	
		5	
6	»		

3. You can specify one or more time periods for each scene when using the 24H sequence mode.



4. Click **OK** to save the settings. The plan appears on the **Scene Sequence** tab. Click **Start** to start the plan. Info about the sequence plan (such as plan name and the current scene) is displayed in the lower left corner.

电视播3 - + -		
1		
4 206.9.252.102_V_1		ĝ 6 206. 9. 252. 102_y_1
	s	cene Name
Current Plan: www		
Sequence By: Interval Interval: 30s		
Current Scene: 2		
	Finder Virtual LED	

5. You can click the buttons at the center to pause or stop the plan.

10.5.5 Play Signal Source

Play signals from a DVI-D or VGA interface of the decoding device on the video wall.

- 1. Create a DX video wall.
- 2. Click the Signal Source tab 💿 .
- 3. Drag the signal source to the intended screen. When live video starts on the video wall, the screen color changes, in the screen's top right corner, and the signal source name appears at the screen center.

Other operations

- Preview: You can right-click in the signal source window and then choose Preview, or hover your mouse on the signal source on the left-side signal source list, and then click on the preview images from the signal source.
- Rename a channel: Click •••• for a signal source, and then click Edit Channel Name to set a channel name that is easy to recognize.

10.5.6 Virtual LED

Virtual LED refers to the texts or times displayed on video images. The Virtual LED is only available on DX video walls that are created using an ADU device.

- 1. Click the **Virtual LED** tab on the bottom, and then click + or follow the instructions displayed on the top to create a virtual LED.
- 2. Configure the LED.

Please refer to the table below for the complete configuration options for the virtual LED. Some settings are only applicable to text or time LEDs.

Item	Description
LED Type	• Text
	• Time
X Coordinate(px)	The coordinates of the virtual LED on the video wall.

Item	Description
Y Coordinate(px)	The coordinates of the virtual LED on the video wall.
Width	Width of the virtual LED.
Height	Height of the virtual LED.
Content	Text to be displayed on video images.
Time Format	Time format to be displayed.
Date Format	Date format to be displayed.
Display Style	Single row
	Multiple rows
Font	Font to be displayed on video images.
Font Size	Auto
	• Custom
Font Spacing	Auto
	• 1-10x: 1x represents a spacing of 0, 2x represents a spacing of 0.5 characters, and so on. The character size is according to the font size set.
Font Alignment	The alignment of the font in the horizontal and vertical directions.
Font Color	The font color displayed on video images.
Background Color	The background color of the virtual LED.
Transparent	The transparency of the background color of the virtual LED.
	• Yes: Do not show the background color of the virtual LED.
	• No: Show the background color of the virtual LED.
Scrolling Speed	The scrolling speed of the text content on video images.
Scrolling Mode	The scrolling mode of the text content on video images

3. The virtual LED is created. The following shows an example.

AM 09:51:54 vall 192 108 3 108 jam2 6 vall 192 108 3 108 jam2 9 vall 192 108 3 108 jam2 10	2023-07-27 Thursday	

Other operations

Other allowed operations to the virtual LED:

- Drag the virtual LED to change its position.
- Place the mouse cursor on the border of the virtual LED, and when the cursor shape changes, drag the border to resize it.

- Click 🙀 in the toolbar to delete all the virtual LEDs.
- Click 💿 in the toolbar to enable all the virtual LEDs, or click 😑 to disable all the virtual LEDs.

10.5.7 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 using certain DX device models supports this feature.

State State State	Bight-click and drag to open a window		
206.9.10.27_V_1	2006	(\$) .9.251.133_Y_1 0_02	, and the second se
1			
	≞ ୷ ▶	1	
•		hannel Name Stream	Preset
	📕 🚺 🗳 📫 💸 206.9.10.2	27_V_1 #ain V	
Playback Close Window			
	Window Virtual LED		

- 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, which means the audio channel is outputting the IPC's audio in the window/screen.
- 3. Adjust output volume or mute the sound as needed.

10.5.8 Network Keyboard

- 1. Enter the IP address and port number of the VMS on the keyboard to register the keyboard to the platform. Complete other basic keyboard configurations by referring to Network Keyboard User Manual.
- Log in to the Web page, go to Basic > Device > Network Keyboard to configure and remember the parameters that need to be controlled by a network keyboard, including video channel, decoding channel or video wall number.

End	coding Chann	el List									
+	Add	Delete 📿 R	efresh [Export					Please enter	r keywords.	0
	Channel No	÷.	Encoding	Channel ≑	Organization	÷	Stream Type 🌲	Statu	s 🜲	Operatio	on
	1		192.168.4	234_V_01	root		Main	V 0	nline	2 1	Ì
De	coding Chanı	tel List DX \	ideo Wall I	ist							
	-	nel List DX V		ist ≩ Export					Please enter	r keywords.	0
	-	Delete 📿 R	efresh [÷	Organization 4	÷	Status \$		r keywords. Operatie	

- 3. Play live view on a video wall.
 - (1) Select a video wall: Enter a video wall number/decoding channel number on the keyboard and press AUX4.
 - (2) Select a window: Enter the number in the upper left corner of the selected window on the keyboard (taking "1" in the figure below as an example) and press MON.
 - (3) Select a window ID to split: Enter a split ID on the keyboard (split ID is 3 in the figure below) or enter 1 if no split, and then press WIN.



- (4) Select a desired camera: Enter the encoding channel number on the keyboard and press CAM.
- (5) Press ENTER to play live view on the video wall.
- 4. You can use the keyboard to control a PTZ camera after playing the live video to a video wall. Repeat 3.b-3.d to select the desired camera and window.
 - Control PTZ direction: Use the joystick to control the PTZ rotation direction.
 - Joystick amplitude: The amplitude of the joystick controls the rotation speed of the PTZ camera. The greater the amplitude, the faster the speed.
 - Zoom: Use the joystick or press ZOOM+/ZOOM- on the keyboard to adjust the zoom.
 - Focus: Press FOCUS+/FOCUS- on the keyboard to control focus.
 - Iris: Press IRIS+/IRIS- on the keyboard to adjust iris.
- 5. You can switch to playback by the network keyboard after playing the live video to a video wall.



(2) Set the playback start time.

(3) Press the button on the joystick or press Enter.

See Network Keyboard User Manual for other specific operations.

10.6 Screen Control

Click the Screen Control tab and turn on/off all screens of a video wall on the software client.

- Select a serial port: COM 1: RS232; COM2: RS485.
- Select a serial port protocol: UA, UA-A or MODBUS.
- Control screens:
 - Turn on/off screens at set times: select the check boxes and then set times. All screens will turn on/off at the set times.
 - Click Turn On Screen to turn on screens immediately.
 - Click **Turn Off Screen** to turn off screens immediately. If a delay is set, the screens will turn off automatically when the set time is over.

11 Alarm Configuration

Create an alarm plan so that the VMS can trigger the preset action(s) when an alarm occurs. The linkage actions include live view, calling a preset, alarm output, and alarm to video wall.

Click the **Alarm Configuration** icon on **Control Panel**. The **Alarm Configuration** page is displayed. Create alarm plans so that the linked object(s) will perform triggered action(s) when an alarm occurs 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 to be used in an alarm plan needs to be configured beforehand under Alarm Configuration > Time Template on the Web Managerclient.
- 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.
- After you finish the configuration of alarm-triggered actions for an alarm source, you can copy and apply the same trigger actions to other alarm sources without repeating the configuration for each alarm source one by one. See Copy Trigger Action Configuration.
- New alarm plans are enabled by default and can be deleted or disabled as needed.

11.1 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 click **A** in the lower left corner and select **Display Link Video** on the top of the page to enable alarm-

triggered live view. And then click **Alarm Configuration** > **Alarm Plan**, click **Add**, and follow these steps:

1. Complete the basic information for the alarm plan. The plan name must be unique. The time template is configured on the Web Manager. New alarm plans are enabled by default. Enable alarm sound as needed (see Alarm Sound).

lare Plan				•
		Alura Source	3 Trigger Actions	
Name Time Template	Alara Flati 1 All-day 2 24/7			
Alarm Sound	●Enable Olisable 3			
Alarm Content			Expression	
Ženarks	Table Alers Flan			
			5	Sert Cancel

Set one or more alarm sources and the corresponding alarm types. Use keywords to filter alarm sources. Click
 to delete unneeded alarm sources. Take motion detection as an example.

Alers Plan					•
0	Danie Info	2 Alara Source		3 Trigger Actions	
Alarn Type	Alarn Source		Alarm Type	All · Keywor	ds O
Vehicle Recognition Not Watch Vehicle Recognition Not Match It Offline Stion Detection Video Lost MS Array Damaged Array Damaged Array Damaged Disk Offline Illegal Access IF Conflict Network Disconnection Recording Space Used Up	252.2 □	© (\$) »	√ No. 1	Alarm Source 206.9.252.2:206.9.252.2_V_03	Alarm Type Motion Detection
Running Out of Recording Space				4 Next	OK Cancel

3. Set one or more linked objects. If the object to link is the alarm source itself, select Link Alarm Source. Play Time means the duration of live video to play. Click iii to delete unneeded actions, or click Copy To to copy trigger actions and apply them to other alarm sources (see Copy Trigger Action Configuration).

Alarn Flan						- ×
		Danie Info	2 Alure Source	3 Trigger Actions	5	
Alarn Type	All · Keywords	Q	Trigger Actions			
No.	Alarm Source	Alarm Type	Live View 2 Goto Preset	Alarm Output	Alarm to Video Wall	
1	206.9.252.2:206.9.252.2_V_03	Motion Det	Link Alura Source 252.2 □- □- □-	© € ≫	√ Channel 206.9.252.2,	Play Time(s) 30 🕹
Pr	evious				6 ax	Cancel

- 4. The configured alarm plan appears in the list. You can edit, delete or disable an alarm plan as needed.
- 5. When live video is triggered by an alarm, the window pops up displaying live video and related alarm and camera information.

📕 Alarm-trig	gered View	
Alarm Info		
Alarm Sou	arce Alarm Type	Alarm Time
206.9.251.172_\	/_1 Motion Detection	2017-12-21 15:55:30
206.9.251.138_1	V_1 Motion Detection	2017-12-21 15:59:36
206.9.251.138_	V_1 Motion Detection	2017-12-21 15:59:33
206.9.251.176_\	/_1 Motion Detection	2017-12-22 08:03:25
Linked Video Cl	44 - C	
Window		o Channel
THIOTH		o chaine
1	206.9.251.138_V_1	
2	206.9.251.171_V_1	
3	206.9.254.124_V_1	
4	206.9.254.125_V_1	
5	206.9.254.126_V_1	

- 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 be 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).

11.2 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 for the alarm plan. Set alarm sources and alarm types. See Step 1 and 2 in Create an Alarm Plan to Trigger Live Video for details.
- 2. Set one or more objects to link and select the preset. Click 🔟 to delete unneeded actions, or click **Copy To** to copy trigger actions and apply them to other alarm sources (see Copy Trigger Action Configuration).



11.3 Create an Alarm Plan to Trigger Alarm Output

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

- 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.
- Set one or more objects (alarm output) to link. Click iii to delete unneeded objects, or click Copy To to copy trigger actions and apply them to other alarm sources (see Copy Trigger Action Configuration).

Alarn Flan						□ ×
		Dessic Info	2 Alarn Source		3 Trigger Action	
Alara Type All	• Kaywords	Q	Trigger Actions			
No.	Alarm Source	Alarm Type	Live View	Goto Preset 🙎	Alarm Output	Alarm to Video Wall
2	206.2.7.201.206.2.7.201_V_1 206.2.7.33:206.2.7.33_V_01	Motion Detection	- 🗸 🔍 206.2	(6/6) 4/37) 8) 59/71)	t	V Alarm Output 206.2.7.202_0_relay_output 206.2.7.203_0_relay_output
Previo	145					Cancel

11.4 Create an Alarm Plan to Trigger Alarm on Video Wall

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

11.4.1 Create an Alarm to Video Wall Task

Note:

Configure video wall first (see Add a Video Wall).

Click **Alarm Configuration** > **Alarm to Video Wall Task**, click **Add** to add an alarm to video wall task. The video wall displayed may vary with the decoding device you are using. The figure below is an example.

Alarm to Video Wall Task Info							
Name Task 2	Video Wall	ideo ¥all2 2	Ŧ				
Vi deo Channel 252.2 □	3	206. 9. 252. 2 <u>. V</u> _00	:	(g) 2 ((206. 9. 252. 2_1		● × ©
- ™g 206. 9. 252. 2_¥_24	⊞ • ⊇	R		₽ ₽	•	No. C	hannel Name
	Close	E Window		• •	± 🖬 X	1 206.9.252	
				Window			
Alarm Content 4 lease enter alarm text or Text Position 3 p	v Font Size	Auto	· ·				Expression
Renarks		L					
						ox 6	Cancel

😴 Note:

- Step 2 specifies a video wall. For video wall operations, see Video Wall.
- Step 3 specifies the linked video channel and window or split window on the video wall.
- Step 4 sets alarm contents. You can enter contents in the text box, or click **Expression** and then set a contents template.

11.4.2 Configure Alarm to Video Wall

- 1. Complete the basic information for the alarm plan. Set one or more alarm sources and the corresponding alarm types. See Step 1 and 2 in Create an Alarm Plan to Trigger Live Video for details.
- 2. Configure alarm to video wall.

Alarm Plan								□ ×
			ø	Ø ——	- 3			
		E	asic Info Al	Larm Source	Trigger Actions			
Alarm Type All	▼		Q Flease enter keywords	Trigger Actions			2	
No.	Alarm Source	Alarm Typ	e	Live View	Goto Preset	Alarm Output	Alarm to Video Wall	
1	192.168.4.98:192.168.4.98_V_1	Motion De	etection 🚺	Alarm to Video 1	fall Task	Play Time(s) 60	4	
				Wall 1 +	<u></u>			
				3 💿 taski 🖉	×			
							Cor	ру То
Previous							OK Cano	el

式 Note:

- Step 3 specifies the task.
- If an alarm occurs when video is playing on a video wall, the video will be replaced by the alarm video and
 resumes when the set play time is over.
- Click Copy To to copy trigger actions and apply them to other alarm sources (see Copy Trigger Action Configuration).
- 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.
- When the alarm type is one of the following: Video Lost, Motion Detection, Tampering Detection, Audio Detection, Defocus Detection, Auto Tracking, High Temperature, Low Temperature, Fan Failure, LED Distribution Box High Temperature, LED Distribution Box Smoke, Elevator Entrance Detection, Alarm Input, Crowd Density Minor/Major/Critical Alarm, the set Play Time is the length of time that video plays after the alarm is ended. For example, the Play Time is set to 20s for a video lost alarm. When a video lost alarm is ended.

11.5 Copy Trigger Action Configuration

After you finish the configuration of alarm-triggered actions (also known as trigger actions) for an alarm source, you can copy these trigger actions and apply them to other alarm sources without repeating configuration for each alarm source one by one.

For example: Copy the Alarm to Video Wall action configured for alarm source A to alarm source B.

Alara Flan					
		2		3	
	Basic Info	Alarm Source	Trie	per Actions	
	Copy To			-	
Alarn Type All " Keywoo	r Select Contents to Copy	Copy To Alarm Type	A11 ~	Keywords	2
No. Alarm Source	Live View	A \$0.	Alarm Source	Alarn Type	
1 (1) (A) 206.9.252.2:206.9.252.2_V_02	Goto Preset	∠ 14 (∋	206.9.11.96:206.9.11.96_V_03	Intrusion Detection	
2 206.9.11.96:206.9.11.96_V_03	Alarm Output				
	3 ✓ Alarm to Video Wall				
					2
				6	
				OK Cancel	
Previous					OK Cance

11.6 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.

11.6.1 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.

✓ Enable Ala Alarm Sound	• TTS								
	CLocal Sound gram Files/VMS/res/alarm_sound.wav Browse								
Repeat Times	• 1	()3	5	_10					
Default									
			Apply	OK	Cancel				

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.

Alarm Plan		□ ×
-	Image: Constraint of the second se	
Name Time Template	Test All-day ~	
	24/7	
Alarm Sound	Enable Disable	
	at S(Alarm Time) S(Alarm Type) occurs at S(Alarm Source)S(Device) in S(Organization) Expression	
Remarks	C Enable Alarm Plan	

> Note:

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.

11.6.2 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.

Client Configuration		- x
 Audio & Video Video Snapshot Recording System 	TTS Alarm Sound Local Sound gram Files\VMS\res\alarm_sound.wav Browse	
Startup Security Ø Operation Alarm	Repeat Times 1 3 5 10 Pefault Apply OK Canc	el
🗾 Note:		

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.

Plan			
0	Basic Info	Alarm Source	Trigger Actions
			113301 10010
Name	Test		
Time Templat	e All-day 👻		
	24/7		
Alarm Sound	Enable Disable		
Alarm Content	Please enter text or select expression		Expression
	 Enable Alarm Plan 		

12 Alarm Center

Alarm center supports centralized management of alarms from all the monitoring devices and third-party alarm controllers connected to the VMS, allowing you to view exceptions of monitoring devices, VMS, and events detected in videos.

This function includes the latest alarms, device history alarms, and server history alarms.

12.1 Latest Alarms

View the latest alarms on the Latest Alarm tab. Alarms refresh automatically. Select alarms (or click **v** to select all) and then click Acknowledge to acknowledge the selected alarms. Acknowledged alarms disappear from the list and can be retrieved on the Device History Alarm tab.

Select alarm level(s) to display alarms of certain levels only.

Click a highlighted icon in the Links Details column to view alarm-triggered snapshots (if exist).

⊘ Ac	cknowledge 🔿 🔽 Display Link	Video	Alarm Level Filter 🗹 Select All	Level 1/2 Level 2/2 Le	wel 3 📕 Level 쉵 📕 Level 5
Al ar	rn Tine	Alarm Source	Alarm Type	Alarm Level	Links Details
2023	3-08-10-14:08:42	192.168.2.15_V_1	Human Body Detection Alarm	Level 1	
202	3-08-10 14:08:27	192.168.2.15_V_1	Human Body Detection Alarm	Level 1	
202	3-08-10 14:08:19	192.168.2.118_V_1	Motion Detection Ended	Level 5	
202	3-08-10 14:08:14	192.168.2.118_V_1	Motion Detection Started	Level 1	
202	3-08-10 14:08:12	192.168.2.15_V_1	Human Body Detection Alarm	Level 1	
202	3-08-10 14:07:44	192.168.2.118_V_1	Motion Detection Ended	Level 5	
202	3-08-10 14:07:39	192.168.2.15_V_1	Human Body Detection Alarm	Level 1	
202	3-08-10 14:07:27	192.168.2.106_V_1	Motion Detection Started	Level 1	
2023	3-08-10 14:07:25	192.168.2.129_V_1	Motion Detection Started	Level 1	
202	3-08-10 14:07:24	192.168.2.118_V_1	Motion Detection Started	Level 1	
2023	3-08-10 14:07:24	192.168.2.15_V_1	Human Body Detection Alarm	Level 1	10 in
202	3-08-10 14:07:14	192.168.2.106_V_1	Motion Detection Ended	Level 5	
2023	3-08-10 14:07:09	192.168.2.106_V_1	Motion Detection Started	Level 1	- 13 - Ed
202	3-08-10 14:07:04	192.168.2.106_V_1	Motion Detection Ended	Level 5	
2023	3-08-10 14:06:44	192.168.2.106_V_1	Motion Detection Started	Level 1	
202	3-08-10 14:06:29	192.168.2.106_V_1	Motion Detection Ended	Level 5	

You may also click (Latest Alarm button) in the lower left corner to view latest alarms, turn on or off alarm sound, and enable or disable Display Link Video as needed.

12.2 Device History Alarm

Search history alarms of devices on the **Device History Alarm** tab. You can view alarm details, acknowledge alarms, or export search results to your computer.

Note:

For **Alarm Source**, when selecting **All**, you can search for alarm sources by keywords (supports fuzzy matching); when selecting a specific type, you can specify the alarm source and select the alarm type.

All device alarms can be retrieved but not necessarily in real time.

If a blue icon is displayed in the Links Details column, you can click 孙 to play the alarm-triggered recording, or

click 🔝 view the alarm-triggered snapshot.

Search Time 2024-04-02 0	0:00:00 ~ 2024-04-02 23:59:59	Today - Last 3 days	Last 7 days					
Alarm Source All	▼ Please enter keywo	er dus						
Alarm Status All	•	Alarn Level Fil	ter 🗹 Select All 🛛	📕 Level 🍃 📕 Level 🍃 📒	Level 👔 📕 Level 🐒 📕 L	evel 5		Search Reset
EQ Details 😔 Adam	owledge 📑 Export							
Alarn Tine	Alarn Source	Alarm Type	Alarn Level	Alarn Status	Acknowledged By	Acknowledged At	Renarks	Links Details
2023-10-10 00:22:30	100. 100. 2.212_V_1	Motion Detection Ended	Level 5	Not Acknowledged				
	190.188.0.012_V_1	Motion Detection Started	Level 1	Hot Acknowledged				₽
DE2-10-10 00:14:10	1982 1988 E. E12_V_1	Motion Detection Ended	Level 5	Not Acknowledged				
0000100100 00:08:39	TW. HW T.312_V_1	Motion Detection Started	Level 1	Not Acknowledged				<u>₽</u>

12.3 System History Alarm

Search history alarms of the VMS on the **System History Alarm** tab. You can view alarm details, acknowledge alarms, or export search results to your computer.

All VMS alarms can be retrieved but not necessarily in real time.

Search Time 2022-05-01 00:0	00:00 ~ 2022-06-08 23:59:59	Today Last 3 days L	st 7 days					
Alarm Type All								
Alarm Status All	🔻 Alarm Level Filter 🗹 Se	Lect All 📕 Level 🛓	📕 Level 🍃 📒	Level 👔 📕 Level 🔹 📕 Level 5				
							Search Reset	
The betails 📀 Acknowledge 💽 Export								
Alarn Tine	Alarn Source	Alarm Type	Alarn Level	Alarm Status	Acknowledged By	Acknowledged At	Renarks	

13 Resource Management

Manage sequence resources, views, and view sequences. You can configure sequence resources, views, and view sequence in advance so that they are ready when you need them.

For example, if you create a view in advance to be played on a large screen at night, you can play it with oneclick at night without repeated confirmation. It can be widely used in various scenarios such as park monitoring centers and enterprise display screens.

13.1 Sequence Resource

Select and arrange cameras in certain order as a group for use in live view and video wall.

1. Click the Sequence Resource tab, click Add, and then follow the steps to create a sequence resource.

Seque	nce Resource Info									o x
Name	South Gate 1	Interval (s)	20 🤅	3						
	eo Channel		Ú	Delete				Top	Down Bot	ttom
E	inter Keywords 🔞 🛞		~	No.	Channel Name		Stream	P	reset	
8	root (3/6)			1	206.9.252.2_V_02	Sub	6 -			
	D- 206. 9. 252. 2 (3/6)			2	206.9.252.2_V_03	Sub	-	1	Û	
	— 🔄 🌄 206. 9. 252. 2_V_01									
	— 🔲 🧅 206. 9. 252. 2_V_03									
	- 🗌 🏹 206. 9. 252. 2_V_04	» 6								
	- 206. 9. 252. 2_V_05									
	Wg 206. 9. 252. 2_V_24									
Remar	ks 🔞									
									OK (9) Can	cel

- 2. Enter the resource name.
- 3. Set the time interval at which a cameras switches to the next.
- 4. (Optional) Enter keywords to filter cameras.
- 5. Select cameras.
- 6. Click >>>> . The selected cameras are added to the list. Click **Top**, **Up**, **Down** or **Bottom** buttons to adjust the order.
- 7. Select a stream type. The stream type available may vary with camera. An unsupported stream type (e.g., MJPEG video stream) is not displayed.
- 8. Select presets (only applicable to PTZ cameras with configured presets).
- 9. (Optional) Enter a description of the sequence resource.
- 10. Click **OK**.

式 Note:

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

13.2 View

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 clicking the **Play** button.

Note:

If the view you want to create will use a sequence resource, you need to configure the sequence resource first (see Sequence Resource).

1. Click the **View** tab, click **Add**, and then follow the steps to create a view.

View Info								□ ×	
Name View 1 🚺]								
Video Channel									
	•==								
Enter Keywords	۲		Live: 206.9.252.2_V_02 Live: 206.9.252.2_V_03				.ive: 206.9.252.2_V_03		
🔮. 🔄 🕂 root (3/6)									
206. 9. 252. 2 (3/6)									
🗌 🌄 206. 9. 252. 2_V_01									
🗌 👽 206. 9. 252. 2_V_02									
🔜 💭 206. 9. 252. 2_V_03 📄 🏹 206. 9. 252. 2_V_04			Sequence: Sequence Resource			Sequence: South Gate			
	~								
Sequence Resource	<i>⊘</i> <u></u> <u></u> <u></u> <u></u>								
Enter Keywords	8		2			⊞ •			
Cosequence Resource	- 1	No.	Channel Name	Strea			Preset		
	1		206.9.252.2_V_03	Main	4	v 1			
Remarks	_								
							ок 🌀	Cancel	

- 2. Enter the view name.
- 3. Choose a screen layout or customize one.
- 4. Drag cameras to intended windows one by one to complete binding; or click to specify a window, select the cameras, and then click R. 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.
- Select a stream type. The stream type available may vary with camera. An unsupported stream type (e.g., MJPEG video stream) is not displayed. Select a preset (only application to PTZ cameras with configured presets).
- 6. 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.
- 7. (Optional) Enter a description of the view.
- 8. Click **OK**.

The created view appears on the **View** tab on the **Live View** page. Click the **Play** button () to start the view.



13.3 View Sequence

Select and arrange views in certain order as a group for use in live view and video wall.

1. Click the **View Sequence** tab, click **Add**, and then follow the stepsto create a view sequence.

View Sequence Plan					×					
Plan Name South & North Gate 0	Sequence By	 Interval (s) 30 		○24 H P1	an					
View	Delete	Тор	Մթ	Down	Bottom					
Enter Keywords 🔕 📀	4	View	Name							
O Inorth Gate		North Gate								
South Gate		South	Gate							
3 »										
Remarks 🔞										
			0	OK	Cancel					

- 2. Enter the plan name.
- 3. Set to sequence by a set interval or a 24H plan. For a 24H plan, you need to set a start time for each view.
- 4. (Optional) Enter keywords to filter views.
- 5. Select views.
- 6. Click >>>> . The selected views are added to the list. Click **Top**, **Up**, **Down** or **Bottom** buttons to adjust the order.
- 7. (Optional) Enter a description of the view sequence.
- 8. Click **OK**.

The created view sequence appears on the View Sequence tab on the Live View page. Click the Play button



) to start the view sequence.

14 Audio

Play audio or have communication with a camera or an NVR. Two-way audio is bidirectional audio communication between a client and a camera. Broadcast is one-way audio broadcast from the client to cameras.

14.1 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.

式 Note:

- Devices that are connected via the VSS do not support two-way audio.
- Two-way audio requires a speaker and a microphone plugged in to your client computer.
- The client software can establish two-way audio with one camera or one NVR at a time.

14.2 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 input sound volume (5), or stop two-way audio (6).



14.3 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).

14.4 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.

Click Add to add the selected audio channels to the broadcast list. Click 🔘 to start broadcast. 📢 changes to

and the Status column shows current status of the audio channels.

BroadcastL	List				
💼 Dele	ete 6				
√ No.	Name	Type	Status	Audio 🚹	Delete
()	206.9.252.15_A_01	IPC	Broadcast in use	on	a 4
2	206.9.252.15_A_02	IPC	Broadcast in use	on	
3	206.9.252.15_A_03	IPC	Broadcast in use	• no	
4	206.9.252.15_A_05	IPC	failed	¥	
5	206.9.251.138_A_1	IPC	Broadcast in use	off	
		0		~	
	4	2	•	0	
	- 🎝		<u> </u>		

During broadcast, you can:

- Add more audio channels: Select from the list and then click **Add**. Broadcast starts automatically for these channels.
- Adjust microphone sound volume (1), or click U 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 iii (4) to delete one by one; or select the check box (5) and then click iii Delete to delete in batch. Clicking will select all channels in the broadcast list.
- End broadcast: click 📢 or close the Audio page.

😴 Note:

- Broadcast and two-way audio cannot be used simultaneously.
- Broadcast supports a maximum of 128 audio channels.

15 People Counting

This function can count the number of people entered/left/present, recognize the direction, monitor crowd density in real time, and export report. It provides data support for the relevant managers to make scientific decisions, such as evacuation measures.

The function includes realtime statistics (people flow counting and crowd density monitoring) and report statistics (people flow counting).

式 Note:

The IPC should support people counting, or be connected via an NVR that supports people counting to the VMS.

• Realtime Statistics: Display counting results in real time for selected areas and update statistics.

• **Report Statistics**: Display statistics according to query conditions in the form of bar chart or line chart and export report. This feature is only available for people flow counting.

15.1 Realtime Statistics

Click **People Counting** on **Control Panel**. On the **Realtime Statistics** tab, double-click a camera to start the live video.

Statistics include:

- People flow counting: You can choose several channels to form a counting area. Counting results include the numbers of people come in to, out from, and remain in the specified detection area. You need to enable people flow counting and configure the detection area on the NVR or IPC in advance.
- Crowd density monitoring: Count the number of people in the current area, and count each channel separately. You need to enable crowd density monitoring and configure the detection area on the IPC in advance. This feature is not supported if the IPC has been connected to an NVR.

People Counting			Counting Area 1	×
Q Please enter keywords	the second se		People Entered Max People Allowed	
- 🗁 People Flow Counting	and the second se		0 50	
- 🚱 Counting Area 1(50)			People Exited People Present	Enter
192. 168. 4. 234_V_01			0 0	
192. 168. 4. 234_V_02	COLUMN TWO IS NOT	(~L)	Monitoring Area 1	×
192. 168. 4. 234_V_03		Ŭ	Max People Alloved	<u>^</u>
↓ 192. 168. 4. 200_V_1			500	
- 🗁 Crowd Density Monitoring - 🖂 Monitoring Area 1(500)				
 Monitoring Ares 1(500) 192.168.4.200_V_1 			People Present	Normal
· 102.100.4.200_7_1			0	
			4	
		$(\sim L)$		
		\bigcirc		
=	• 🗵			

Place your mouse pointer next to the People Flow Counting folder or the People Density Monitoring folder on the left-side tree. Click + to add a detection area, select a channel and set an alarm threshold.

Hover the mouse cursor on the counting area:

- Click Q to start people flow counting/crowd density monitoring, and then the results appear on the right side.
- Click
 // to modify the area name, alarm threshold, and channel.
- Click m to delete the area.

```
Note:
```

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

15.2 Report Statistics

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

- Counting type, e.g., counting by hour.
- Set a time period by selecting on the calendar or typing manually.
- Count people entered and/or left by selecting

🗹 People Entered 🔾 🗹 People Left 🔾 🔽 People Present 🔾 🕠

Display results with a line chart or a bar chart by clicking 👱 且.



- The maximum time period is 60 time units depending on the counting type you choose; for example, 60 months when counting by month, and 60 days when counting by day, etc.
- This feature is only available for people flow counting.

Click **Count**. Results are displayed. For example:

ounting Type By Month	▼ 2021-01 ~ 2021	1-12 🔛 Count	Today Last 7 days Last 30 day	2	
(People)					<u>⊭</u>
2800					
2400					<u> </u>
2000					
1600					
1200					
800					
400					
0					
2021/01	2021/02 2021/03	2021/04 2021/05 ple Present O	2021/06 2021/07	2021/08 2021/09	2021/10 2021/11 2021/12
✓ People Entered O			2021/06 2021/07	2021/08 2021/09	2021/10 2021/11 2021/12
 People Entered Export Show c 	✔ People Left O ✔ Peo		2021/06 2021/07 People Fresent	2021/08 2021/09 Result	2021/10 2021/11 2021/12
✓ People Entered ○ ● Export Show of tetistics Time	✓ People Left ○ ✓ People Left ○	ple Present O			2021/10 2021/11 2021/12
People Entered O Export Show o tatistics Time 021/04	People Left People Addition People Entered	ple fresent O People Left	People Fresent	Result	2021/10 2021/11 2021/12
People Entered Export Show o tatistics Time 021/04 021/05	People Left People Left People Entered 0	ple Fresent O Feople Left O	People Fresent O	Result Succeeded	2021/10 2021/11 2021/12
People Entered Export Show o tatistics Time 021/04 021/05 021/06	People Left O People Annel details People Entered 0 0	Ple Fresent O Feeple Left 0 0	People Present 0 0	Rerul t Surceeded Surceeded	2021/10 2021/11 2021/12
People Entered Export Show o tatistics Time 021/04 021/05 021/06 021/07	People Left O People hannel details People Entered 0 0 0	Ple Fresent O People Left 0 0 0 0 0	People Present 0 0 0	Rezul t Surceeded Surceeded Surceeded	2021/10 2021/11 2021/12
People Entered Export Show o tatistics Time 0221/04 0221/05 0221/06 0221/07 0221/08	People Left O People hannel details People Entered 0	Ple Fresent O People Left 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	People Present 0 0 0 0 0	Rezul t Surceeded Surceeded Surceeded Surceeded	2021/10 2021/11 2021/12
People Entered Expert Show o tatistics Time D21/04 D21/05 D21/06 D21/07 D21/08 D21/09	People Left O People Left O People Annel details People Entered 0 0 0 0 0 0 0 0 0 0 0 0 0	Ple Fresent O People Left 0 0 0 0 0 0 0 0 0 0 0 0 0	People Present 0 0 0 0 0 0 0	Rezul t Surceeded Surceeded Surceeded Surceeded Surceeded	2021/10 2021/11 2021/12
✔ People Entered O	People Left O People Annel Annel People Entered O O O O O O O O O O O O O O O O O O O	ple Fresent O People Left 0 0 0 0 0 0 0 0 0 0 0 0 0	People Present 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rezul t Surceeded Surceeded Surceeded Surceeded Surceeded Surceeded	2021/10 2021/11 2021/12

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

Counting Type	By Month	•	2021-01	~ 2021-12		Count	Today I	Last 7 days	Last 30 days					
(People)														🗠 htt
2800														
2400													R	
2000													/	
1600												/		
1200													2021/11	1 People Entered: 2557
800													Total H	People Left: 66 People Present: 2491
400													TOTAL	Copie Tresent. 2401
02	021/01	2021/02	202	1/03	2021/04	2021/05	20	? 21/06	2021/07	2021/08	2021/09	2021/10	2021/11	2021/12
🔽 People	Entered O	🗸 People	Left O	🖌 People Fre	sent O									

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

16 Alarm Control Panel

Third-party alarm control panels can be connected and report alarms to the VMS.

You can receive and manage alarms from third-party alarm control panels and perform operations for thirdparty devices, such as arming/disarming a partition and bypassing a zone. It avoids repeated switching between multiple platforms, improving efficiency.

Click Alarm Control Panel on Control Panel. The Alarm Control Panel page is displayed with two tabs: Partition and Zone.

- Partition: Arm or disarm partitions. When a detector is triggered in armed status, the alarm control panel will alarm and display it in the **Alarm Status** column.
- Zone: Bypass or unbypass zones under an alarm control panel. Bypassed zones are not protected.
- 1. To arm or disarm a partition, click the Partition tab, select partition(s) and then click Arm or Disarm.
- 2. To bypass or unbypass a zone, click the Zone tab, select zone(s) and then click Bypass or Unbypass.

🔗 Bypass 💿 Unbypass				
√ Channel Name	Access Gateway	Status	Alarm Status	Operation
2	192.161.12.201	Online		0 (3)
3	192.161.12.201	Online	-	0 (3)
4	192.161.12.201	Online		0
5	192.161.12.201	Online	-	0 (3)
6	192.161.12.201	Online	-	0 (3)
7	192.161.12.201	Online	-	0 💿
8	192.161.12.201	Online		0 (3)
9	192.161.12.201	Online	-	0 (3)

17 Access Control

Manage the added access control devices and assign access permissions to specific persons. This function can authenticate personal identity, record visitors' basic information and access records, and staff attendance data. You can also add restricted persons to realize accurate access control.

In addition, you can open doors manually, manage visitors and monitoring tasks, and search access records.

17.1 Manual Control

Open or close doors on the software client.

Click an access controller or access control device. The doors are listed. Click the **Open Door** or **Close Door** button in the **Operation** column to open or close a door; or select multiple doors and then click the **Open Door** or **Close Door** button on the top to open or close doors in batches.

Manual Control Visitor Management	Record	ls Search Visito	or Config						
Device		0pen Door	Close Door						
Enter Keywords	0	√ Chanr	nel Name	De	evice	Status	Door Status	Operation	
🗗 🏯 root		West		206.10.9.55		Online			
206.10.9.55		East		206.10.9.55		Online			
6									

17.2 Visitor Management

17.2.1 Visitor Information

Sign in or sign out visitors on the Visitor Management > Visitor Information tab.

Sign In a Visitor

Register visitor information, assign access permission.

1. Click the Sign In button. Complete the required information.

n In				×
	Complete Basic Info		2 Assign Access Permission	
 Visitor's Name 	Peter	Total Visitors	1	
ID Type	ID Card 👻	Organization	XX Company	
ID No.	111111	Person to Visit	• Q	
Gender	●Male Female	Department		
Phone No.				
Remarks				
Photo of Visitor	(Vp to 6 photos) Add Ficture			
Reset				Next Cancel
Note:	action is enabled by defa	ult and can be	disabled manually at Syst	em > Basic > Imago

Correction at the B/S client. When enabled, image correction can recognize multiple complete faces in an image, eliminate redundant background, so as to improve success rate for image uploading.

2. Assign permissions to the visitor, including specifying a valid period and a permission group. The permission group can be configured in visitor permissions beforehand or by clicking **Add** in the top right corner. The valid period means when the assigned access permissions are effective. The actual effective time are determined together by the valid time set here and the time template applied. It is the intersection of the both.

			\$
	Complete Basic Info	2 Assign Access Permission	
Visitor's Name Peter			
Valid Time 2019/08/27 0	0:00:00 🗘 ~ 2019/08/27 23:59:59 🗘		
Permission Group			
Inter Keywords			8
🖌 🦳 East&West			
		Previous	OK Cancel

- 3. Click **OK** to complete sign-in.
- 4. Click ④ in the **Operation** column to check whether permissions are assigned successfully.

Sign Out a Visitor

Sign out a visitor after the visit completes. The visitor has no access permissions after being signed out.

- 1. Search the visitor you want to sign out. Clicking Search without setting any conditions will list all visitors.
- 2. Select the visitor to sign out and then click Sign Out.

17.2.2 Visitor Permissions

Access Control > Visitor Management > Visitor Permissions

Add a permission group to be assigned to visitors.

- 1. Click Add. A page as shown in the figure below appears.
- 2. Enter the group name, select doors that you want to grant access, and select a time template.

* Name door 1	Copy From		Time Template	All-day	3	Ŧ
Select Channel			Selected Channel			
Enter Keywords	۲		Enter Keywords		۲	
□- ♥ == root (0/1) 2 └─ ♥ ■ 192. 168. 2. 33						
		4 »				
		«				
				OK	Cancel	

😴 Note:

- The time template needs to be created beforehand at the Web client under Access Control > Permissions > Time Template.
- Visitors have access permission only within the time period allowed by the time template.
- You can also create the new permission group based on an existing one by selecting the Copy From check box. Configurations will be copied from the existing permission group that you specify to the new permission group.

17.2.3 Restricted Person

Access Contro > Visitor Management > Restricted Person

Add restricted persons by inputting their ID information into the system.

- 1. Click Add. A page as shown in the figure below appears.
- 2. Select an ID type, enter the ID number.
- 3. Click OK.

Prohibited	l visitors		×
ID Type	ID Card		*
ID No.			
		OK	Cancel

17.3 Monitoring Management

Configure a blocklist and then add it to a monitoring task to deny access of visitors that are unwelcome.

Add a Visitor to a Blocklist

Click **Monitoring Management** > **Blocklist**, choose a blocklist from in the list, enter the required information such as name, ID number to add the person to the blocklist. You also need to add the blocklist to a monitoring task in order to block persons on the blocklist.

Note:

Operations to add, delete or modify a blocklist library at **Door Access Control > Monitoring Management > Blocklist** will be synchronized to **Face Recognition > Face Library Management**.

Configure a Monitoring Task

1. Click Add.

. K Add.		 _
Monitoring Task		
* Task Name		
• Valid Time	2021/3/4 0:00	
Monitored Blocklist	New BlockList Lib1	
Door Group	Joor No. Channel Name	
Enter Keywords	8	
3 🗌 🗁 555		
	3	
	×	
	«	
	5	
	OK	1

- 2. Enter the task name, set a valid period and monitored blocklist. The blocklist is configured in Add a Visitor to a Blocklist.
- 3. Set a permission group or specify doors separately.
- 4. Click **OK**.

17.4 Search Records

Search and export entry/exit records, search attendance statistics and blocklist alarm records on the **Records Search** tab.

Search Entry/Exit Records

Search entry/exit records of a specified door during a certain period.

Start and End Ti	ine 2024-02-	24 00:00:00 ~ 2024-03	9-25 23:59:59	Today Last 7 days La	st 30 days							
Door		Nane	c	ard No.	ID Card		Gender 💿 All	Male O Female) Unknown Temp('C)			
Birection	All	Out In	Type All	Employee Visitor	Stranger	Mask Status 💿 All	O No Mask O W	i th Mask 🕓 Unknow	a			
										S e ar ch	Reset	Hi de 🔷 🔨
👲 Export												
Nane	Gender	ID Card	Type	Entry/Exit Time	Phone No.	Department	Tenp(°C)	Mask Status	Authentication Statu Card No.	Captured Photo	Registered Photo	Operator
	Unk		Stranger	2024/03/21 15:36:28			Unknown	Unknown	Failed(Comparison fa		20	£* 2.
Kelisi	Unle***	111111	Employee	2024/03/21 15:29:37		dept	Unknown	Unknown	Succeeded			

- Set a person as a visitor: Click $\mathcal{R}^{=}$ in the **Operation** column, enter the required information such as name and ID number.
- Add a person to a blocklist: Click 2. in the **Operation** column, choose the blocklist library, enter the required information such as name and ID number.
- Export Entry/Exit Records: Select the records to export, click Export , choose Export Text or Text & Pic. Search results will be exported to a CSV file.

Search Attendance Statistics

Search a person's attendance records during a specified period.

Please select department	Start and End Time 2024	-02-25 ~ 2024-03-26	Today Last 7 d	lays Last 30 days					
🗹 🚞 dept	Bane	Person IB							
								Sear	ch Reset
	🗎 Export								
	Date	Han e	Person ID	Department	Door	First In	Last Out	Duration	In & Out Details

Search Blocklist Alarm Records

Search blocklist alarm records generated during a specified period.

Search Time 2024-02-25 00:00:00	~ 2024-03-25 :	23:59:59 📩 To	day Last 7 days	Last 30 days						
Nane A	larm Source									
									Search	Reset
Export										
Door	Direction	Nune	Type	Entry/Exit Time	Phone No.	Blocklist	Captured Photo	Registered Photo		

18 Face Recognition

The function compares the captured face snapshots with the face images added on the VMS. If the similarity reaches the set threshold, face is match, otherwise, face not match. The face match and not match alarms can be reported to the VMS and trigger actions.

You can use face library to manage different types of faces, and create monitoring tasks. For example, you can set match alarms for VIPs, the elderly, or children who need special attention or extra care; or set not match alarms for strangers. This function can also be used for identity authentication, attendance management, suspect identification, and so on.

You can also view realtime monitoring, alarm records, and pass-thru records.

😴 Note:

Operation will fail when adding, modifying or deleting face libraries or monitoring tasks from different clients at the same time.

18.1 Face Library Management

Face library consists of face images and other face related information. By customizing face libraries, you can manage faces in different categories to meet different monitoring needs. First you create face libraries and then add face data to the libraries. Up to 125 custom libraries are allowed.

Create Face Library

Click the add sign (+) in the face library tree on the left. To rename a library, click Edit.

Add Face Data

Add face data to a face library. There are many ways to add face data.

😴 Note:

Image correction is enabled default and can be disabled at **System > Basic > Image Correction** at the B/S client. When enabled, image correction can recognize multiple complete faces from an image, eliminate the redundant background, so as to improve the success rate for image uploading.

• Option 1: Use Batch Add

1. Click the target face library on the left, and then click **Batch Add** on the right. The images to select must be JPG files and each must not be greater than 500KB.



2. Click the edit button to enter person information. You can customize attributes such as height and color (see Customize Attributes).

Person Info				□ ×
	Gender	● Unidentified ◯ Ma	le 🔵 Female	
100 A	* Name		Nationality	
0.07	* ID Type	ID Card 👻	Province	
	* ID No.		City	
	Date of Birth	2000/1/1	Height	
	Color			
Note: To continue editing	click Next			
Note: To continue culting	OLION MERL.	Next	Finish	Cancel

3. Click Next to save and continue to the next, or click Finish.

4. Click **OK** when you complete information for all the faces.

Option 2: Import a file containing face data

Use this method if you have a file that contains the necessary face data. The file and its content must conform to the format, and each image must not be greater than 500KB.

i Important:

If an ID number in the imported file already exists in the system, then the corresponding information in the system will be overwritten by the imported file.

1. Click **Import** and then select the file. The imported data appear in the list. You can click the button in the list's upper right corner to switch display mode.





Assign Faces

19 1

Assign faces to custom libraries that you specify. One face may belong to multiple face libraries at the same time.

Assign

Click a face library on the left, select face(s) on the right, click **Assign**, and then select one or multiple face libraries to assign the selected face(s) to. This operation is allowed in all the face libraries except the root library.

Remove

"Remove" is the reverse operation of "assign" and only works for faces that have already been assigned. This operation is allowed in custom libraries only.

Delete a Face Library

Click the delete button (e.g., 📁 🛍 test(1) 🖉 🔟 层). A prompt message appears. If the library you want to

delete contains data, a second message appears, asking whether you also want to delete the data with the library. Choosing **Yes** will delete all the data with the library; choosing **No** will only delete the library and keep all the data in it. The default system library cannot be deleted. A library that is being used by a monitoring task cannot be deleted in this way.



Sync to Devices

For smart devices that are connected to the VMS via the private protocol, you must sync images in a face library from the VMS to the devices before these images can be used for monitoring.

Select a face library on the left, click **Sync to Device**, select smart device(s), click **OK**. Face images in the face library will be synced to the smart device(s).

Customize Attributes

Customize face data attributes such as **Height**, **Color**. You need to enable the attribute(s) before they appear in person information.

Custom Attribute	\sim
Height 🖉 😑	
Color Height	
Attribute3	
Attribute4	
Attribute5	

18.2 Monitoring Task

Use the created face libraries or imported faces for monitoring. The system compares the captured faces with the faces used for monitoring, analyzes, and reports alarms based on the monitoring type you set.

- 1. Click Add to create a monitoring task.
- 2. Choose a monitoring type according to the on-screen instructions

Add Monitoring Task				\times
I Select Monitoring Type	2 Configure Monitoring Parameters	3 Select Face to Monitor	(4) Select Monitoring Channel	
	Frontend Monitoring (Private) Use smart IPC or smart NVR	Frontend Monitoring (VIID) Use smart IPC or smart NVR		
	connected via the private protocol to achieve face recognition functionality	connected via VIID to achieve face recognition functionality		
			Next Cancel	

Note:

The configuration steps for frontend monitoring (Private or VIID) are similar. Here we take Frontend Monitoring (VIID) as an example.

3. Set task details.

Add Monitoring Task					×
 — 	2		- 3		
Select Monitoring Type	Configure Monitor	ing Parameters	Select Face to Monitor	Select Monitoring Chanr	el
* Task Name					
* Alarm Type	 Match Alarm 	🗌 Not Match Alarr			
* Start and End Time	2023/02/09 00:00:00	4	~ 2023/02/09 23:59:59		
Remarks					
Previous				Next Car	cel

- Match Alarm: The system reports such an alarm when it finds a match in the library or among the selected faces with a captured face; for example, when the system identifies a VIP guest.
- Not Match alarm: The system reports such an alarm when it fails to find any match in the library or among the selected faces for a captured face, for example, when the system detects a stranger.
- Monitoring Object: Choose Face Library or Face. The selected face library or faces will be used for comparison with the faces captured by cameras. If you choose Face Library, one face library can be selected; if you choose Face, you can select up to 32 faces for this monitoring task. Take Face for example.

Monitoring Task			
· · · · · · · · · · · · · · · · · · ·	- 📀		(4)
Select Monitoring Type	Configure Monitoring Parameters	Select Face to Monitor	Select Monitoring Channel
onitoring Object: 💿 Face Library	Face		
ace Library			
Person(2)			
O 🛅 123(2)			
Previous			Next Cancel

- 칻 Note:
 - For frontend monitoring (private), you can only choose a face library as the monitoring type.
 - For frontend monitoring, you must sync the face library to the device(s) before the face library can be used for monitoring. See Sync to Device for details.
- 4. Select faces for the monitoring task. You may select from different libraries.

Select Face											□ ×
Face Library	Nane		ID No.			All 🔿 Male	O Paralla C	Mala was		Selected	
Q Please enter keywords	Traine.		10 10.		Gender	Max O Heate	U Tellare				
- En Root Library(4)								Search	Reset		
🛅 Person(2) 🕎											
Visitor(0)											
123(2)		Nane	Gender	Date of Birth	Nationality	Province	City	ID Type	ID No.		
		321	Unknown	2000-01-01				ID Card	321		
		11	Unknown	2000-01-01				Other	11		
	-										
			1	otal 2 < 1	> 16 per 1	age 🔻 Go To	1 Page				
										0%	Cancel

5. Select device(s) to be used for monitoring. Make sure the device(s) have sufficient capacity for this task; otherwise, the task will fail.

Add Monitoring Task			×
		📀	(1)
Select Monitoring Type	Configure Monitoring Parameters	Select Face to Monitor	Select Monitoring Channel
Face(s) selected: 2 (Please ensure su	fficient remaining capacity on device)		
Select Monitoring Device			
Q Please enter keywords			
Previous			OK Cancel

- 6. Click **OK**.
- 7. The newly created task appears in the list. You may click to view details.

+	Add 📋 Delete						Task	Mune VIP2		
4	Task Name	Start time	End time	Remarks	Status	Operation		Name	Status	Operation
	VIP	2019-01-09 00:00:00	2019-01-09 23:59:59		In Use	/ = 0		John	Active	
	VIP2	2019-01-09 00:00:00	2019-01-09 23:59:59		In Use	/ ii O		192.168.8.28	Active	
							Β	Morgan	Active	
								192.168.8.28	Active	

18.3 Realtime Monitoring

View live images and snapshots of faces captured by specified cameras. View alarm records, including personal information, captured faces (snapshots) and faces saved in the system for monitoring. Filter alarm records by choosing **Current Camera(s)** from the drop-down list. Only alarm records related to the cameras you are playing will be displayed. In the **Snapshots** area on the right or on the **Not Match Alarm** tab on the bottom, place the

mouse cursor on a snapshot. Click (), and then enter information including name and ID number. Click **Next**, select a face library and add the face to the face library.

19 LPR

LPR cameras can monitor passing-thru vehicles at road checkpoints in real time, record vehicle entry/exits, and automatically identify license plate number, vehicle color and so on.

Use this function to manage vehicle libraries, create monitoring tasks, and trigger vehicle match/not match alarms. For example, set match alarm for specific vehicles such as violation vehicles and suspect vehicles, and set not match alarm for unknown vehicles. It is widely applicable to toll stations, security checkpoints, and so on.

You can manage vehicle libraries, create monitoring tasks, and monitor the incoming and outgoing vehicles in real time.

😴 Note:

Choose a type for monitoring.

- Front-end monitoring (private protocol): IPC-NVR-(private protocol)-VMS. Monitor by NVR.
- Front-end monitoring (VIID protocol): ① IPC-(VIID protocol)-VMS; ② IPC-NVR-(VIID protocol)-VMS. Monitor by VMS.

19.1 Vehicle Library Management

Vehicle library consists of vehicle images and other vehicle related information. By customizing vehicle libraries, you can manage vehicles in different categories to meet different monitoring tasks. First you create vehicle libraries and then add vehicle data to the libraries. Up to 15 custom libraries are allowed.

Create Vehicle Library

Click + in the vehicle library tree on the left. To rename a library, click Edit.

Add Data

Add vehicle data to a vehicle library. There are many ways to add vehicle data.

• Option 1: Use Batch Add

Click the target vehicle library on the left, and then click **Batch Add** on the right. The vehicle photo is used to compare with vehicle snapshots. The images to select must be JPG files and each must not be greater than 512KB.

Vehicle Info			\times
* Plate No.			
Plate Type	Other	Ŧ	
Plate Color	Other	-	
Vehicle Color	Other	-	
Vehicle Photo	H Image size up to 512K.		
Note: Click Next	to save and continue to add a new vehicle.		
	Next Ok Can	cel	

• Option 2: Import a file containing vehicle data

Use this method if you have a file that contains the necessary vehicle data. The file and its content must conform to the format, and each image must not be greater than 512KB. Click **Import** and then select the file. The imported data appear in the list.

Assign Vehicles

Assign vehicles from the root library to a library or libraries that you have created (known as custom libraries). One vehicle may belong to multiple vehicle libraries. The assign operation can only be done under the root library, and vehicles can only be assigned to libraries that are not in use for monitoring. To reassign a vehicle that has already been assigned to a custom library, you need to remove the vehicle from the custom library first.

• Assign

Click the root library on the left, select the vehicle(s) on the right, and then click **Assign**. You can select one or more vehicle libraries.

Remove

"Remove" is the reverse operation of "assign" and only works for vehicles that have already been assigned. After being removed from custom libraries, the vehicles belong to the root library only and then can be reassigned.

Sync to Device

Sync vehicle information to the NVR so that the NVR can perform monitoring tasks.

1. Select a vehicle library on the left, and click **Sync to Device**.

New Library''' 🖉 🗐 🕞	+ Batch Add	elete 🖉 Assign	🛞 Remove 🖣 Import	Export	🗠 Download Templat 2	Sync to Device
New Library1(0) 🖉 🔟 📃	Plate No.	Plate Color	Plate Type	Vehicle Color	Status	Operation
	f151515	Other	Select Device	a.1		∧ □ X
	f141414	Other	Q. Flease enter keywords			
	£131313	Other	- V Correct			
	£1112121	Other	3 🔽 📰 192. Let. 3. L	14		
	£101010	Other				
	f9999	Other				
	£77777	Other				
					_	
					• ок	Cancel

- 2. Select a target NVR.
- 3. Click **OK** to start syncing. The sync results will be displayed after the sync is completed.
- 4. On the Sync Result page, click 🔄 to view the sync results. Click Retry to resync.

evice Name	Succeeded	Failed	Details		
92.188.3.134	13	0	E	2	
Details					
Select Device			Plate No.	Status	
Q Please ente	r keywords		fiimmi	 Successful 	
- 늗 root			innn	 Successful 	
NUE 192	00.0.134		distants.	 Successful 	
			Total 13 <	1 2 > 12 per j ♥ 30	o Tc 1 Page

Delete a Vehicle Library

Click the delete button (e.g., \square $\mathbb{H}_{ew} 1(7) \mathbb{Z}$ \square). A prompt message appears. If the library you want to delete contains data, a second message appears, asking whether you also want to delete the data with the library. Choosing **Yes** will delete all the data with the library; choosing **No** will only delete the library and keep all the data in it. The default system library cannot be deleted. A library that is being used by a monitoring task cannot be deleted in this way.

19.2 Monitoring Task

Use the created vehicle libraries or imported vehicles for monitoring. During the monitoring time, the system compares vehicle snapshots with the vehicles used for monitoring, analyzes, and reports alarms based on the monitoring type you set.

Note: See references in Monitoring Type.

Add Monitoring Task

- 1. Click Add to create a monitoring task.
- 2. Choose a monitoring type according to the on-screen instructions.



🔁 Note:

The settings of the monitoring via the VIID protocol are similar to those via the private protocol. The following takes the front-end monitoring (private protocol) as an example.

3. Configure the monitoring task parameters.

Add Monitoring Task			\times
1	2	3	
Configure Monitoring Parameter	s Select Vehicle to Monitor	Select Monitoring Channel	
* Task Name			
* Monitoring Type	Match Alarm Not Match Alarm		
Cause	Robbed Vehicle	~	
Remarks			
		Next Cancel	

- Match Alarm: The system reports such an alarm when it finds a match in the library or among the selected vehicles for a captured vehicle; for example, when the system detects a vehicle on the wanted list.
- Not Match Alarm: The system reports such an alarm when it fails to find any match in the library or among the selected vehicles for a captured vehicle; for example, when the system detects an unknown vehicle.
- 4. Select the vehicle(s) to be monitored.

式 Note:

- The VIID protocol monitoring supports selecting a vehicle library or certain vehicles for monitoring; the private protocol only supports selecting an vehicle library for monitoring.
- Only the vehicle libraries that have been synced to device can be selected for the private protocol monitoring.
- Monitor by vehicle library: Select a vehicle library for monitoring.

d Monitoring Task		×
	2	
Configure Monitoring Parameters	Select Vehicle to Monitor	Select Monitoring Channel
Monitoring Object: 💿 Vehicle Library		
Vehicle Library		
 New Library7(7) 		
		Next Cancel

• (For VIID protocol) Monitor by vehicle: Select the vehicle(s) to be monitored. Up to 32 vehicles are allowed.

Add Monitoring Task	\times
Configure Monitoring Parameters Select Vehicle to Monitor	
Monitoring Object: 🔷 Vehicle Library 💿 Vehicle	
Select Vehicle Note: Up to 32 vehicles are allowed.	
Selected	
① f11 15 Ⅲ	
倒 f14 14 III	



5. (For private protocol) Select the monitoring channel. Make sure the number of device monitoring tasks does not reach the maximum limit. Otherwise, the monitoring may fail.

Add Monitoring Task		×
	- (
Configure Monitoring Parameters Select Vehicle to Monitor	Select Monito	ring Channel
Vehicle(s) selected: 7 (Please ensure sufficient remaining capacity on device)		
Select Monitoring Device		
Q Please enter keywords		
- 🗌 🚞 root		
- 19 19 134(3/3)		
🗹 🥪 192. 📖 🗉 📖 V_01		
☐ 192.100.100.02		
192. IIII. 2. IIII. V_13		
Previous	Finish	Cancel

6. Click Finish, and the newly added task will be displayed in the monitoring task list.

Manage Monitoring Task

- Enable/disable: Click *▶*/*⊖* for the monitoring task to enable or disable it.
- Edit: Click ∠ for the monitoring task to edit the monitoring parameters.
- Delete: Select the monitoring task(s) to be deleted, and click Delete, or click in for the monitoring task.

19.3 Realtime Monitoring

You can view the real-time images and alarm records of the monitoring points.

🛃 Note:

The monitoring points include the LPR cameras and video channels of NVR.

- 1. Select a window, and then double-click a video channel on the left to view the live video of that channel in the window.
- 2. The real-time snapshot records are displayed on the left, including the vehicle pass-thru snapshots and vehicle plate images.
- The match alarm/not match alarm result is displayed at the bottom of the page. You may also filter alarms by selecting All Cameras or Current Camera(s) from the drop-down box in the top right corner. When Current Camera(s) is selected, only the alarm records of the camera(s) that is currently playing the live video will be displayed.

20 Behavior Search

Behavior search uses the VMS or NVR to analyze moving objects such as pedestrians and vehicles in videos captured by cameras. Using search criteria such as alarm type, time, and object type, you can search alarm snapshots or alarm videos before and after an event and view attributes of the captured objects.

It supports central search (from VMS) and device search (from NVR).

Click Behavior Search on Control Panel. The behavior search page is displayed with two tabs:

- Center: Search the VMS for alarm data reported from NVR or IPC. Only smart devices connected via the private protocol can be displayed.
- Device: Search the NVR for the reported alarm data. Only encoding devices connected via the private protocol can be displayed.

Rote:

- Behavior search is only available on certain NVR/IPC devices, and perimeter protection should be configured before using this fearure. Please refer to the device's user manual for specific configuration.
- Make sure a hard disk is inserted in slot 1 of the VMS before searching alarm data from center.

20.1 Search on the Center

Search the VMS for alarm data reported from NVR or IPC. This feature supports five alarm types, including cross line detection, intrusion detection, enter area detection, leave area detection, and ultra motion detection.

1. Follow the steps as illustrated on the image.



- 2. Perform the following operations as needed.
 - Click 🕀 in the lower right corner to view an alarm image (6) in full screen. Click the left or right arrow to view the previous or next image.
 - Play or download the alarm video (7) in the right. The alarm video is 10 seconds long (5s before and 5s after the alarm time).
 - View or save the alarm image (6) in the right.
 - Click (9) to switch to list mode.
 - Click (10) to export search results.

20.2 Search on Devices

Search the NVR for the reported alarm data. Only encoding devices connected via the private protocol can be displayed.

Note:

This feature is available on certain NVR devices/versions. Currently this feature only supports cross line detection and intrusion detection.

1. Follow the steps as illustrated on the image.



- 2. Perform the following operations as needed.
 - Double-click an image in the list to view it in full screen.
 - Play or download the alarm video (5). The alarm video is 10 seconds long (5s before and 5s after the alarm time).
 - View or save the alarm image (6). Click the left or right arrow to view the previous or next image.
 - Click (7) to switch to list mode.

Click (8) to export search results. •

21 Mixed Traffic Detection

Mixed traffic detection can recognize and capture objects including pedestrians, motor vehicles, and non-motor vehicles, as well as analyze attributes of the captured objects including faces, human bodies, motor vehicles, and non-motor vehicles.

It can be widely used in various mixed-traffic roads, and meet different management needs for pedestrians, motor vehicles, non-motor vehicles, and drivers in the park.

21.1 Realtime Monitoring

1. Double-click a camera to start live video and view face recognition or traffic detection data. Two cameras are allowed.

😴 Note:

If VCA Rule is enabled, detection boxes will appear on the image. The color of the detection boxes may vary depending on the object type.

2. Live view operations are allowed when you are monitoring (see Live View Operations).



3. Click a record to view its details.



4. Double-click the snapshot to view it in full screen.

22 Parking Lot

Cameras at the entrance and exits of parking lots can identify and capture vehicles. You can use custom vehicle libraries to manage different types of vehicles, for example, allow registered vehicles to directly pass through and block unknown vehicles; view live video from cameras, lift the barrier manually when necessary, and view entry/ exit records.

The function allows you to manage vehicle libraries, view realtime monitoring, and pass-thru records.

22.1 Vehicle Library Management

By customizing vehicle libraries, you can manage vehicles in different categories to meet different monitoring tasks. Vehicle libraries contain vehicle information. Only vehicles that added to libraries and synced to devices can pass through directly, otherwise, it requires the admin to open gates manually.

Create vehicle libraries first and then add vehicle data to the libraries. Up to 15 custom libraries are allowed.

Create Vehicle Library

To create a vehicle library, click + in the root library tree on the left. To rename a library, click \nearrow .

Add Data

Choose one way to add vehicle data to a vehicle library.

- Batch Add
 - 1. Click the target vehicle library on the left, and then click Batch Add on the right.

Vehicle Info					×
* Plate No.					
Plate Type	Other			-	
Plate Color	Other			-	
Vehicle Color	Other			Ŧ	
Vehicle Owner				Q	
Phone Number					
Note: Click Next vehicle.	to save a	nd continue to add	a new		
B	'ext	Ok	Cance	1	

2. Enter vehicle information in the pop-up window. Click \bigcirc to search the owner. Owners need to be added in advance from **Personnel Management** on the Web client or in Add Face Data.

Import a file containing vehicle data

Use this method if you have a file that contains the necessary vehicle data. The file and its content must conform to the format. Click **Import** and then select the file. The imported data appear in the list.

Assign Vehicles

Assign vehicles to a library or libraries that you have created (known as custom libraries). One vehicle may belong to multiple vehicle libraries.

• Assign

Click a vehicle library on the left, select the vehicle(s) on the right, and then click 23 Assign . You can select one or more vehicle libraries.

Remove

Click a vehicle library on the left, select the vehicle(s) on the right, and then click (Remove . "Remove"

is the reverse operation of "assign" and only works for vehicles that have already been assigned. After being removed from custom libraries, the vehicles belong to the root library only and then can be reassigned.

Delete a Vehicle Library

Click the delete button (e.g., iii)). A prompt message appears. If the library you want to delete contains data, a second message appears, asking whether you also want to delete the data with the library. Choosing **Yes** will delete all the data with the library; choosing **No** will only delete the library and keep all the data in it. The default system library cannot be deleted.

Sync to Device

When vehicle data is synced to the device side, the device can recognize the vehicles and open the gate automatically.

- 1. Click a vehicle library on the left, select the vehicle(s) on the right, and then click Sync to Device.
- 2. Select the desired device(s) in the pop-up window, click **OK** to sync the vehicle information to the device(s).

Click 📑 on the right side of vehicle library to view the sync details.

Details				\times
Select Device	Plate No.	Status		
Q Please enter keywords	11	Successful		
- 🗁 root	112	Successful		
192. 168. 2. 222	11122	Successful		
	111	Successful		
	Total 4 < 1	→ 12 per page ▼ Go To 1	Page	
		Retry Ca	ncel	

22.2 Realtime Monitoring

View live videos from entrance & exit cameras. Double-click a camera in the organization tree on the left, or drag the camera to any window to play the live video.

式 Note:

Cameras need to be added in advance from Basic > Device > Entrance & Exit Device on the Web client.

To open gate manually, place the mouse on the camera, and click [], or click



For more details about other buttons on the window toolbar, see Window Toolbar.

22.3 Pass-Through Records

Search for records of vehicles that passing through cameras at the entrances and exits during a certain period. You can filter pass-through records by plate number, vehicle owner, vehicle color, and entrance & exit.

late No.		Vehicle Owner		Vehicle Color All	-		
ntrance & Exit						Search R	eset
🔶 Export							
Plate Image	Plate No.	Vehicle Owner	Vehicle Color	Entrance & Exit	Snapshot Time	Details	
	1000		White	192.168.2.222_V_1	2022-08-16 15:08:18	2022-09-16 .5: 08:0/ J782 Life	tone i
ska.	5-171		Purple	192. 168. 2. 222_V_1	2022-08-16 15:08:04		
	C.17		Black	192.168.2.222_V_1	2022-08-16 15:07:51	and the second	
1249	States and		White	192.168.2.222_V_1	2022-08-16 15:07:46	Snapshot Time 2022-08-16 15:08	:04
	$\{g_i\}_{i=1}^{n-1}$		White	192. 168. 2. 222_V_1	2022-08-16 15:07:43	Plate No.	
denter de	100.00		White	192.168.2.222_V_1	2022-08-16 15:07:00	Entrance & Exit 192.168.2.222_V_ Vehicle Color Purple	1
			Purple	192. 168. 2. 222_V_1	2022-08-16 15:06:58		
	3.015		White	192. 168. 2. 222_V_1	2022-08-16 15:06:31		
	(mm),		Yellow	192.168.2.222_V_1	2022-08-16 15:06:26		

- Click a record in the list to view details on the right.
- Click Export to save search results as a CSV file to your computer. You may open the file with Microsoft Excel.

23 Search Data

Search faces, pedestrians, non-motor vehicles, and motor vehicles from the smart devices connected to the VMS. For example, you can search a pedestrian from the data collected by cameras using criteria such as gender, clothing color, hair style, and snapshot time so as to track and locate the pedestrian.

23.1 Search Face

Search people pass-through records by criteria to view the person access records, or search people pass-through records or face library based on an image to identify people or view access records.

23.1.1 Search by Criteria

- 1. Select the search type.
 - By attribute: Set the camera name (support fuzzy search), snapshot time, gender, age, glass type, mask status, and body temperature range, then click **Search** to find the access records.



• By event: Set the monitoring type, alarm source (support fuzzy search), alarm time, then click **Search** to find the target evens. When **Match Alarm** is selected in **Monitoring Type**, you can also set the name, ID number, gender, mask status, and body temperature range.



🌮 Note:

Search By Event

To search by mask status and body temperature range, you need to enable mask detection and body temperature detection first in Client Configuration.

2. Search results are displayed. Click a record to view the alarm image, alarm video (5s before and 5s after the alarm time), and face attributes on the right.

Other Operations

Perform the following operations as needed.

- Export: Click **Export** to export search results toyour PC as a CSV file. You can use Microsoft Office Excel to open the file.
- Add to face library:
 - 1. For strangers, you can strangers to a face library by hovering over the search result and clicking A
 - 2. Select the target face library, enter the person information, and click Next.
 - 3. (Optional) Select **Assign** to add the face image to other face libraries. That is, add the face image to the face libraries selected in this step and in the 2 step. Then click **OK**.
- Search by image: Hover over the result searched by attribute, and click
- Download alarm image or video: Click 📋 under the Alarm Image tab to save the image. If alarm video is

available, click 👢 under the Alarm Video tab to download the video.

23.1.2 Search by Image

Search similar face images from face libraries or pass-thru records based on an image.

- 1. Select Image from the Search By drop-down list.
- 2. Upload an image to search.
 - Upload library image: Click **Upload Library Image**, select the target library in the pop-up window, select the face image, then click **OK**. You can search the face image by entering the person name, ID number, and gender.

Select Library Image			×	
Face Library	Name	ID No.	Gender 💿 All 🗌 Male 🔵 Female	
Q Please enter keywords			Search Reset	
- 📩 Root Library(11)				
Person(2)				
Visitor(1)				
New 1(4)	100 B			
New 2(1)	0.6			
To New 3(8)				
		Total 1 < 1 > 16 per page V	Go To 1 Page	
			OK Cancel	

- Upload local image: Click **Upload Local Image**, and select the image in the pop-up window. Then click **Open**.
- 3. Select search in face library or pass-through records.
 - Face library: The system compares the uploaded image with face library images.
 - Pass-thru records: The system compares the uploaded image with the image in the pass-through records.
- 4. (Optional) Set the search criteria.
 - Start and end time: When you select search in pass-through records, you can set the start and end time.
 - Data source: Select the source of the data to search.
 - Match: Set the face match value, and the system will search face images that are greater than the set similarity.
- 5. Click **Search** to view the similar images.

Figure 23-1: Search Pass-Thru Records



Total 6 < 1 > 16 per page **v** Go To 1 Page

Figure 23-2: Search Face Library



Total 7 < 1 > 16 per page V Go To 1 Page

Other Operations

When you select search in pass-through records, you can perform the following operations as needed.

- Add to face library:
 - 1. For strangers, you can strangers to a face library by hovering over the search result and clicking
 - 2. Select the target face library, enter the person information, and click Next.
 - 3. (Optional) Select **Assign** to add the face image to other face libraries. That is, add the face image to the face libraries selected in this step and in the 2 step. Then click **OK**.
- Download alarm image or video: Click 🥅 under the Alarm Image tab to save the image. If alarm video is

available, click I under the **Alarm Video** tab to download the video.

23.2 Search Pedestrian

Search pedestrian records by criteria, including camera name, snapshot time, gender, age, hairstyle, garment style, etc. Search results are displayed below. Click a record to view the alarm image and face attributes on the right.

Camera Name		Snapshot Time	2022-09-23 00:00:00 ~ 2022-09-	23 23:59:59 🛗 Tod	y Last 3 days Last 7 days			
Gender	A11 -	Åge	All -	Mairstyle	All	▼ Upper Garnent Style	All	Ŧ
Upper Garment Color	A11 ~	Lower Garment Style	All 👻	Lower Garment Color	All	▼ Shoe Style	A11	Ŧ
Bag Style	A11 ~							
							Search	Reset Hide 🔨
Export							Alarm Image	
	nder Unknown per Garnent Yellow Long SJ wer Garnent Black Trouzer: 22-09-23 16:15:41 mera Name 192.108.2.0***	Gender Upper Garment Lover Garment 2022-09-23 16: Camera Name Age Gender	192.168.2.0** Unknown Male Black Short SJ Black Trouser 15:38	2022-09-23 16:16:42 Cunera Name 192:160:2 Age Wahnown Gunder Wahnown Upper Garment Black hon 2022-09-23 2022-09-23 16:15:37 Comera Name Wahnown Gender Wahnown Gender Wahnown Gender Wahnown Gender Wahnown Gender Wahnown Gender Wahnown	0 Cash g Sli tz 0 0 0 0 0 0 0 0 0 0	ar Garment Black Long Sl. ar Garment Black Shorts 09-23 16:15:37 ara Hane 192.168.2.0*** Unknown	k kalender kalender Nationaliset kalender kalender Nationaliset kalender kalend Nationaliset kalender ka	
Lo	wer Garment Black Shorts	Lower Garment	Black Shorts	Lower Garment Blue Trou	sers Low	er Germent Gray Shorts		Gender Unidentified Age Unknown
	22-09-23 16:15:36 mers Name 192.168.2.0 re Unknown Total 2945		192. 168. 2. 8*** Unknown	2022-09-23 16:15:35 Camera Mane 192.168.2 Age Unknown 16 per page Ge To		2-09-23 16:15:31 ura Mane 192.168.2.8*** Unknown	Y	Mairstyle Vaknown Upper Garment Yellow Long Sl Lower Garment Black Trousers Shoe Style Vaknown

Other Operations

Perform the following operations as needed.

• Export: Click Export to export search results toyour PC as a CSV file. You can use Microsoft Office Excel to open the file.

• Download alarm image: Click I under the Alarm Image tab to save the image.

23.3 Search Motor Vehicle

Support querying the motor vehicle records reported from the LPR cameras or video channels of NVR.

- 1. Select search by attribute or event.
 - By attribute: Set the camera name (support fuzzy search), snapshot time, plate number, vehicle type, vehicle color, plate type, vehicle logo, direction, plate color, and speed, then click **Search** to find the target records.

ers Name		Snapshot Time	2022-09-23 00:00:00 ~	2022-09-23 23:59:59	Today Last 3	days Last 7 days				
ate No.		Vehicle Type	All	- Plate Colo	All	-	Plate Type	A11	-	
nicle Logo	All Select	t Direction	All	w Speed	All	•	Vehicle Color	All	Ŧ	
									Search	Reset Hi de
🖲 Export									Alarm Inage	Alarm Video
late Inage	Plate No.	Flate Color	Plate Type	Vehicle Type	Vehicle Color	Canera Nane	Snapshot Time		Spee 2022 09 23 16:20:47 1	SfAlls289x 1
	1.00	Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16	20:47	0m	
-		Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16	:20:42	Okn Strategy	
Citra in the	1 I H H	Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16	20:33	0km	
	100	Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16	:20:29	0kn	
	1.00	Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16	:20:17	0lm, * < >	
1	1 (m. 1)	Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16	:20:12	Motor Vehicle	
	100	Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16	:19:58	Okn. Vehicle Type	Small Vehicle
	1 mar 1	Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16	:19:47	Plate Color Okm. Plate Type Vehicle Logo	Blue Small Vehicle Plate
									Direction Speed	Undenoven Oken/h

• By event: Set the monitoring type, alarm source (support fuzzy search), start time, plate number, plate color, vehicle color. When **Match Alarm** is selected in the **Monitoring Type**, you can set the monitoring cause.

earch By Event onitoring Type Not	Match Alara 💌 St	urt Time 2022-09-23 00:00	:00 ~ 2022-09-23 23:59:59	Today La	st7 days Last30 days				
larn Source		Flate No.	Plate Color	All	¥				
		Vehicle Color All	Ŧ						Search Reset
🔮 Export									
Flate Inage	Flate No.	Plate Color	Flate Type	Vehicle Type	Vehicle Color	Alarm Source	Snapshot Time	Spee Alare Inage	Alarm Video
		Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16:22:04	0km 2022 49 23 16:22	04 §fAS5T20
1000		Blue	Small Vehicle Flate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16:21:59	Okn.	
-		Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16:21:54	Obn	
		Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16:21:44	Okn.	Manager Cold
1000	100	Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16:21:37	Okn, 4	
	1000	Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16:21:10	0km. Motor Vehic	E
1000	100	Blue	Small Vehicle Flate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16:20:59	Okn Snapshot Time	2022-09-23 16:22:04
1000	1000	Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16:20:47	Okn. Canera Name Cause	192.168.2.222_V_1 Robbed Vehicle
		Blue	Small Vehicle Plate	Small Vehicle	Other	192.168.2.222_V_1	2022-09-23 16:20:42	Obn Vehicle Type Vehicle Color	Small Vehicle Other
		Tota	1 23 < 1 2 >	20 per page \ G	o To 1 Page			Plate Ho.	

2. Search results are displayed. Click a record to view the alarm image, alarm video (5s before and 5s after the alarm time), and motor vehicle attributes on the right.

Other Operations

Perform the following operations as needed.

- Export: Click Export to export search results toyour PC as a CSV file. You can use Microsoft Office Excel to open the file.
- Download alarm image or video: Click index the Alarm Image tab to save the image. If alarm video is available, click , under the Alarm Video tab to download the video.

23.4 Search Non-Motor Vehicle

Search non-motor vehicle records by criteria, including camera name, snapshot time, vehicle type, direction, and speed. Search results are displayed below. Click a record to view the alarm image and non-motor vehicle attributes on the right.

Camera Name		Snapshot Time	2022-09-21 00:00:00	~ 2022-09-23 23:59:59	Today :	Last 3 days L	ast 7 days				
Vehicle Type	All 👻	Direction	All	▼ Speed	All		-				
										Search	Reset Hide 🔨
Export										Alarm Image	
-	2022-09-02 12:44:57 Cenera Mane 2:13_V_14 Vahidle Type Undrawn Direction Undrawn Speed Undrawn	1	2022-09-22 12:44:56 Canara Kane 2.13_V_13 Vehicle Type Unknown Direction Unknown Speed Unknown	-		2.13_V_13	1	2022-09-22 12 Camera Name Vehicle Type Direction Speed	2.13_V_14	an aita	
7	2022-09-22 12:41:47 Camera Mane 192.168.2.20*** Vehicle Type Unknown Direction Unknown	7	2022-09-22 12:41:47 Camera Name 192.168.2. Vehicle Type Unknown Direction Unknown	20	2022-09-22 12: Camera Name Vehicle Type Direction	2.13_V_14	- T	2022-09-22 12 Camera Mane Vehicle Type Direction	2.13_V_14	< > Hon-Motor Vehicle	
	Speed Unknown		Speed Unknown	•		Unknown		Speed	Unknown		Gender Unidentified Age Unknown Hairstyle Unknown
- H	2022-09-22 12:38:52 Camera Hane 2.13_V_13 Vehicle Type Unknown Direction Unknown Speed Unknown	the second se	2022-09-22 12:36:52 Canera Name 2.13_V_13 Vehicle Type Unknown Direction Unknown Speed Unknown	-	2022-09-22 12: Canera Mane Vshicle Type Direction Speed	192.168.2.20*		2022-09-22 12 Camera Name Vehicle Type Direction Speed	192.168.2.20***		Upper Garment Unknown Lower Garment Unknown Shoe Style Unknown Bag Style No Speed Unknown Direction Unknown
	Tot	al 1208 < 1	2 3 4 5	··· 76 >	16 per page 🔻	Go To 1	Page				

Other Operations

Perform the following operations as needed.

- Export: Click Export to export search results toyour PC as a CSV file. You can use Microsoft Office Excel to open the file.
- Download alarm image: Click [] under the Alarm Image tab to save the image.

24 Local File

Local files are videos or images saved from the VMS to your PC. You can quickly search local files by device, file type, and storage time.

- 1. Select the target device(s) in the Video Channel or Favorites tab.
- 2. Click 🛗 to set the date and time.
- 3. Select the search type, including recording and snapshot.
- 4. Click **Search**. The results appear on the right side by time, and the latest video or snapshot is displayed in the middle.

Toolbar

Some buttons are described as follows. See Playback Toolbar for more details.

 Click to close the current video and clear it from the list. This button only appears when you search recordings.

Click to open the local folder. You can also select the file format, and the available file format is determined by the search type selected in step 3.

25 Data Dashboard

Data dashboard is a visual display of data in the form of charts, graphs, and other visual elements. It supports the aggregation and visualization of data on personnel, vehicles, devices, alarms, and more, in the form of dynamic reports. By creating a visual data dashboard, data information is presented intuitively, diverse information is

summarized, and the overall situation is clearly perceived. The data is displayed on a large screen using visual charts, allowing users to easily view the dynamic data of the system in one place.



26 Client Configuration

Set the local parameters for the client computer to achieve the related functions.

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

Click **Client Configuration** on **Control Panel**, or click box appears. Some parameters are described in the table below.

Parameter		Description				
Video	Play Mode	 Min. Delay: No delay or the shortest delay though video quality may not be satisfactory. Balanced: Balance between the video latency and fluency. Fluent: Video fluency is better though video delay may occur when network is poor. 				
	Stream Type	 Adapt to Screen Layout: When selected, the client chooses a stream type according to the screen layout: More than 9 windows: Sub stream 9 windows or less: Main stream Use Default Stream Type: Main, Sub, Third 				
	Stream Transmission Protocol	 Protocol used to transfer video streams from frontend 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. 				

Parameter		Description
	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 fails, the devices send media streams via the VMS.
	Display Ratio	Full: The video covers the entire window.Original: The video is displayed in the original ratio.
	Play Main Stream in Maximized Live View Window	 Selected: When you maximize a live view window by a double- click or using the shortcut menu, the system automatically switches to the main stream (if it is not the current stream type); and when the window restores, the system switches back to the previous stream type.
		 Not selected: The system does not change switch type automatically when you maximize a live view window. By default this option is not selected.
	Enable GPU Mode	Uses GPU to improve the client's decoding capability. This feature requires the client computer's support. When selected, the supported encoding format (e.g., H.264, H.265) will be displayed. The changed setting takes effect after the program restarts.
Snapshot	Snapshot Mode	 Auto: Save snapshot(s) in the 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 continuous snapshots.
	Continuous Snapshots	Number of snapshots to take every time.
	Snapshot Format	Choose a snapshot format for automatic snapshot mode.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.
		Note: JPEG is recommended. You can choose BMP if the image quality does not meet your needs.
	Image Save Path	Set the path to save snapshots.
Recording	 Local Recording Format Downloaded Recording Format 	Set file format and storage path for local recordings and downloaded recordings.
	 Local Recording Path Downloaded Recording Path 	

Parameter		Description				
Watermark	Watermark	After enabling this feature, you can choose watermark content below, including: username, PC IP, and PC time. The selected contents will be displayed on live and playback videos on the screen.				
Startup	Enable Auto Login to EZVMS	When enabled, the client software runs automatically after you log in to your Windows system, and you will log in to the most recently accessed server address without entering the username and password.				
	Enable Auto Login to Windows	This feature is available to the Windows version. When enabled, your computer will automatically log in to Windows after startup. You need to enter the username and password for your Windows system.				
Security	Auto-lock client if no mouse or keyboard action after	To enable this function, select the checkbox and set a lock time. If there is no mouse or keyboard operation on the software client within the set time, the software client will automatically lock.				
Alarm	Enable Alarm Sound	Set whether to enable sound alert when an alarm occurs. You ma 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.				
Epidemic Control	Temperature Unit	The temperature unit can be set to Celsius or Fahrenheit.				
	 Mask Detection Abnormal Temperature Detection Alarm Sound Pop-up Alarm Window 	Enable mask detection and temperature detection as needed. After enabling temperature detection, you will need to set the threshold for abnormal body temperature. When enabled, alarm sound or a pop-up alarm window will be triggered (depending on the configuration) when a mask detection alarm or abnormal temperature alarm occurs.				
VCA	Intelligent Mark	When enabled, bounding boxes will be displayed to highlight targets of the specified type(s) in mixed traffic detection in live video images.				
	Mark Target	When enabled, the software will automatically mark targets of the specified type in the image.				
	Show Attributes	When enabled, the images will show attributes of the target, such as gender, upper garment color, etc.				
Fire Temperature	Fire Mark	When enabled, fire points will be marked in the image.				
Measurement	Temperature Mark	When enabled, fire point temperature will be marked in the image.				
	Hot&Cold Spot Tracking	When enabled, you can track the hottest and coldest areas in the image.				
	 Alarm Sound Pop-up Alarm Window 	When enabled, alarm sound or a pop-up alarm window will be triggered (depending on the configuration) when a fire detection alarm occurs.				