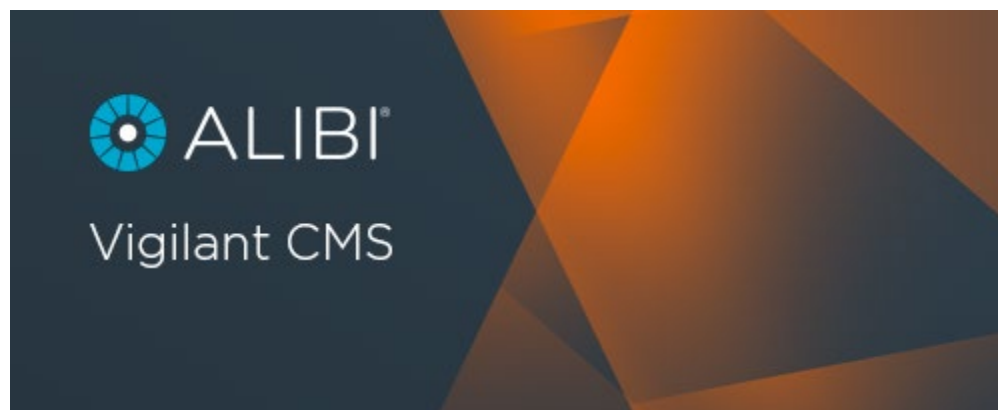

ALIBI® Vigilant CMS User Manual

For: ALIBI Vigilant Cameras and Video Recorders



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

Disclaimer




CAUTION!

The default password is intended for your first login. For security, please set a strong password after your first login. A strong password shall include at least nine characters comprising all three types: digits, letters, and special characters. Please keep the password safe and change it regularly.

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

Conventions

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

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

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1 Introduction

Alibi Vigilant CMS (Central Management Software) is a unified management system for Alibi Vigilant IP cameras, video recorders (NVRs) and related devices. It provides video surveillance services including live view, playback, device management, recording schedule, alarm configuration, video wall, people counting, and e-map. The software is easy to deploy and operate, suitable for small and medium-size applications such as for super market, parking lot and residential area.

Some common terms used in this document are defined below:

- **Directly connected camera:** Camera that is directly managed by the software (in comparison with NVR connected camera).
- **NVR connected camera:** Camera that is managed by the software via an NVR (in comparison with directly connected camera).
- **IPC:** IPC, IP camera and camera refer to the same thing in this manual.
- **PC:** The computer that runs the software, also mentioned in this manual as the client.

Functions

Function*	Description
Device Management	
Features	Device discovery (auto discovery, specify network segment) Add devices by IP address or domain name. Cloud device management(add, edit, delete and share) Group devices, view device status, restart device Remote configuration(image parameters, encoding parameters, OSD) Fisheye camera supported
Live View	
Screen Layout	1/ 4/ 5 /6 /8 /9 /10 /13 /16 /17 /25 /32 /36 /64 split view 1 / 4 / 9 / 16 / 25 default view and custom view 3 auxiliary screens
PTZ Control	Pan, tilt, zoom, shortcut PTZ, focus, preset, patrol, 3D positioning, IR control, wiper control, heat control, snow removing Note: Actual functionality may vary depending on device capability.
Features	Group display, sequence display, snapshot, digital zoom, scene, instant playback, local recording, default and custom view, custom stream, corridor mode, audio, two-way audio, and manual alarm
Playback	
Recording	Play back recording from NVR and SD card 16-ch (Async)/16-ch (Sync) playback

	Display recording status on a calendar Recording in .ts, .mp4 format
Features	Local recording, scheduled recording, alarm triggered recording, search recording by time/recording type, recording download, snapshot, digital zoom, -16x ~ 16x speed for forward and backward, audio, instant playback, play back local recordings, playback by image, playback by frame, playback in default/custom view
Alarm	
Type	Multiple alarm types.
Alarm Triggering	Live view, recording, email, preset, sound and etc. Trigger other IPCs
Alarm Records	Real-time alarm info display and acknowledge History alarm display/acknowledge/query
E-Map	
Format	PNG/JPEG/BMP
Map Alarm	Alarm flash, search and acknowledge
Features	Hot spot, hot zone, map zoom in/out, eagle eye
User Management	
User Management	Add, edit and delete user, query user
User Level	Super administrator, administrator, operator
User Info	User name, password, user level, permissions Different default permissions for different user levels Assignable permission(s) of each IPC
Audio & Video	Configure video processing mode, display mode, stream transmission protocol Enable shortcut PTZ control, GPU mode Configure snapshot mode, image save path Configure format and save path for local and downloaded recordings
System	Enable auto login to Alibi Vigilant CMS / Windows Set retention period for operation/alarm log Import and export configuration
Operation	Set alarm duration, alarm recording start and end time Enable auto time sync, set synchronization interval Configure SMTP server and email address used to send/receive emails



NOTE!

- Alibi Vigilant CMS software has different versions for different operating system. Refer to the datasheet for details.
- Functions may vary depending on several factors including the device and version and how the device is configured in the system.

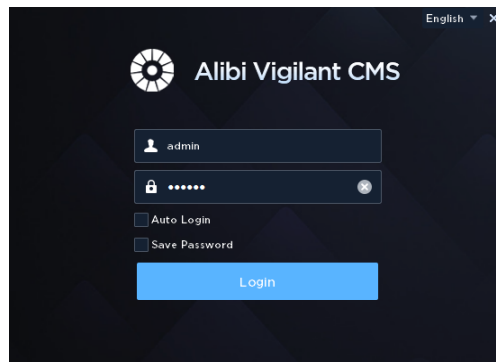
2 System Requirements

Ensure that the PC that hosts Alibi Vigilant CMS meets minimum performance requirements shown in the table below. These requirements may vary depending on how you use the software. For example, live view images at high resolution in multiple windows requires higher system performance.

CMS Software Version	Computer System Requirements
Microsoft Windows 64-bit version (recommended)	OS: Microsoft Windows 7/8/10 (64-bit) CPU: Intel Core i5 3.1 GHz or higher Memory: 4 GB or more Note: The 64-bit Windows OS can host 32-bit software.
Microsoft Windows 32-bit version	OS: Microsoft Windows 7/8/10 (32 or 64-bit) CPU: Intel Pentium IV 3.0 GHZ or higher (4 Core, 3.0 GHz recommended) Memory: 4 GB or more
Mac	OS: Mac OS 10.11 or higher CPU: Intel Core i5 3.1 GHz or higher Memory: 4 GB or more

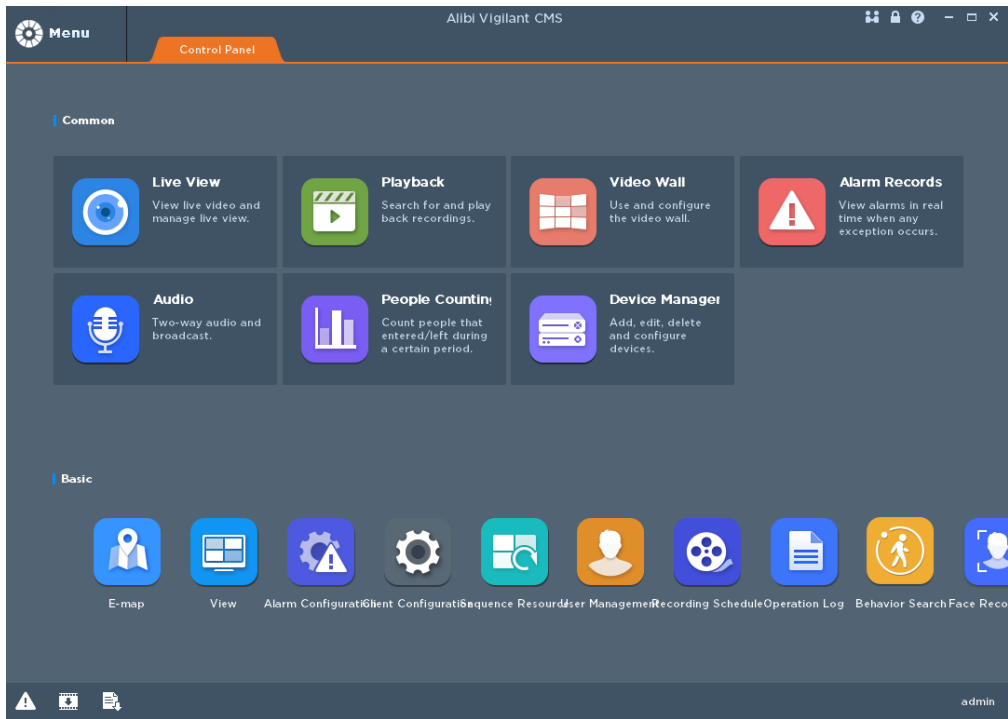
3 Installation and Startup

1. Obtain the **Alibi Vigilant CMS** installation file for your computer operating system from your product vendor. Normally this file is in .zip format. This document is based on the installer file named: *AlibiVigilantCMS_Win64-B1130.zip* (for Windows 64-bit version operating systems)
2. Extract the .exe file from the .zip file. In this example, the extracted file is named: *AlibiVigilantCMS_Win64-B1130.1.0.1.exe*
3. Open the .exe file, and then follow the instructions in the wizard to complete the installation.
4. When installation is complete, double-click the shortcut icon to start the software. When the screen below appears, log in with the default username/password (**admin/123456**).

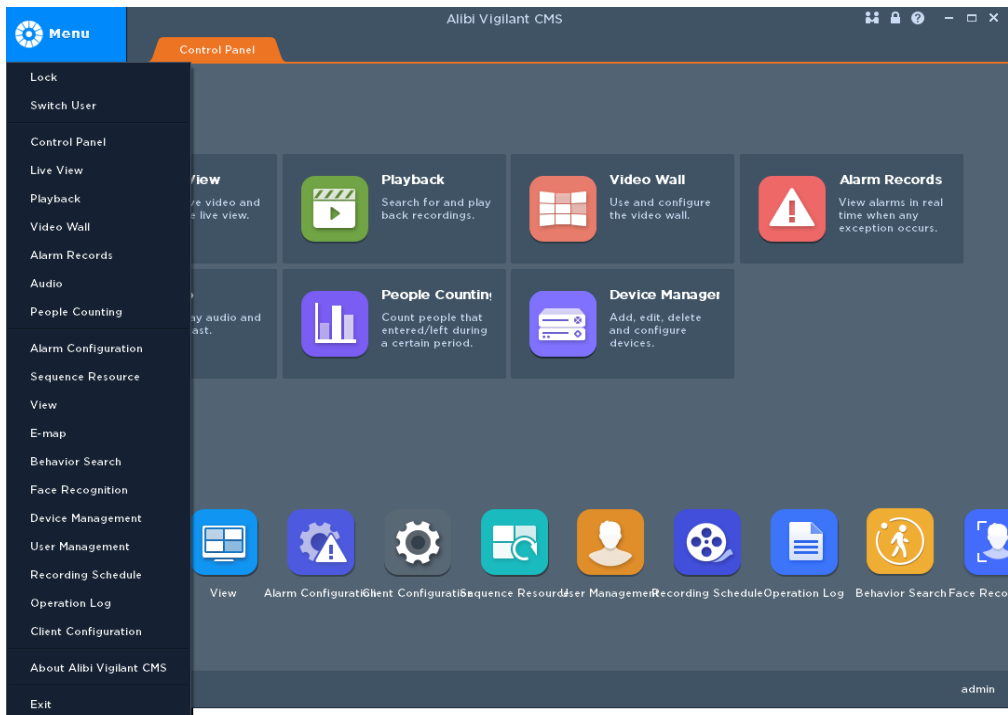


The default password is intended only for the first login only. For improved security, set a strong password for subsequent logins. A strong password has at least nine characters and contains digits, letters **and** special characters. See [User Management](#). Please keep your password safe and change it regularly.




5. After logging in, the default main screen opens. The main screen includes the control panel, some functional buttons and the system menu.






- The control panel includes the **Common** and **Basic** areas. Click an icon to open the module. You can drag an icon to change its position within the group.
- Click **Menu** in the top left corner to open the system menu to open the list of options.




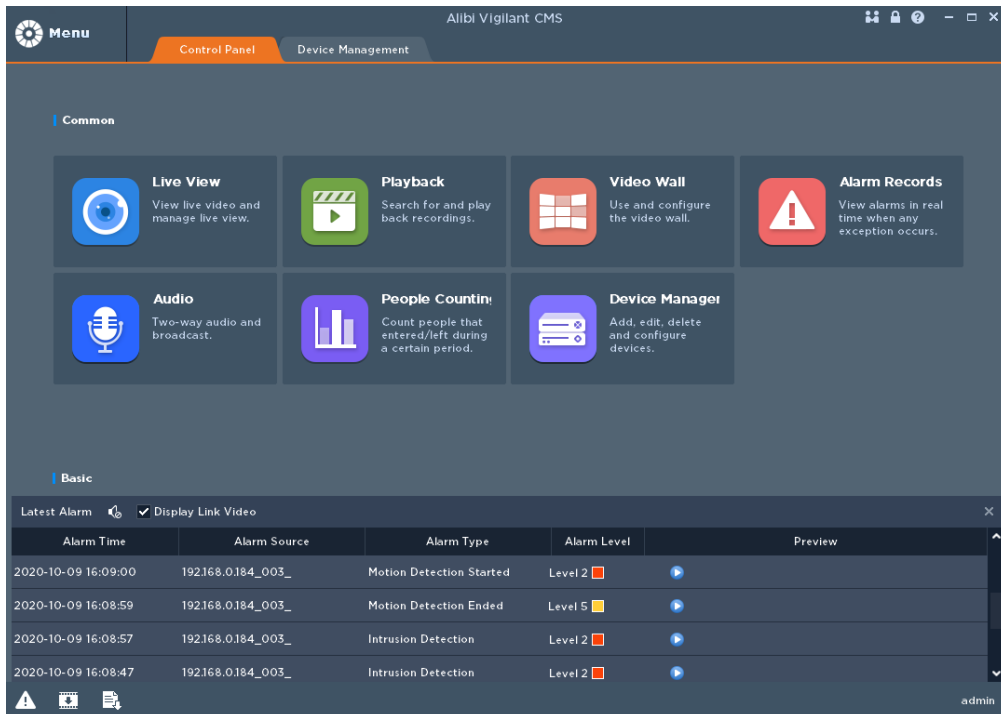
Screen header and footer icons

Icon	Description
	Switch account.
	Lock the GUI. You must log into the GUI to use it.
	Open the About Alibi Vigilant CMS window to see the version number and update information. Note: If updates are available, double-click on the version name to download a new version.

- Three buttons in the lower left corner:

Icon	Description
	View realtime alarms, turn on/off alarm sound, enable/disable alarm-triggered live video.
	Download recording.
	View and manage download tasks.

View Realtime Alarms by clicking the  icon in the lower left corner.











The screenshot shows the Alibi Vigilant CMS interface. At the top, there is a 'Menu' button and a navigation bar with 'Control Panel' and 'Device Management' tabs. The main content area is divided into two sections: 'Common' and 'Basic'.

The 'Common' section contains several tiles:

- Live View:** View live video and manage live view.
- Playback:** Search for and play back recordings.
- Video Wall:** Use and configure the video wall.
- Alarm Records:** View alarms in real time when any exception occurs.
- Audio:** Two-way audio and broadcast.
- People Counting:** Count people that entered/left during a certain period.
- Device Manager:** Add, edit, delete and configure devices.

The 'Basic' section features a 'Latest Alarm' window with a 'Display Link Video' checkbox. Below this is a table of alarm records:

Alarm Time	Alarm Source	Alarm Type	Alarm Level	Preview
2020-10-09 16:09:00	192.168.0.184_003_	Motion Detection Started	Level 2 	
2020-10-09 16:08:59	192.168.0.184_003_	Motion Detection Ended	Level 5 	
2020-10-09 16:08:57	192.168.0.184_003_	Intrusion Detection	Level 2 	
2020-10-09 16:08:47	192.168.0.184_003_	Intrusion Detection	Level 2 	

At the bottom left of the interface, there are three icons: a warning icon, a download icon, and a tasks icon. The user name 'admin' is visible in the bottom right corner.

4 Device Management

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

Encoding Device

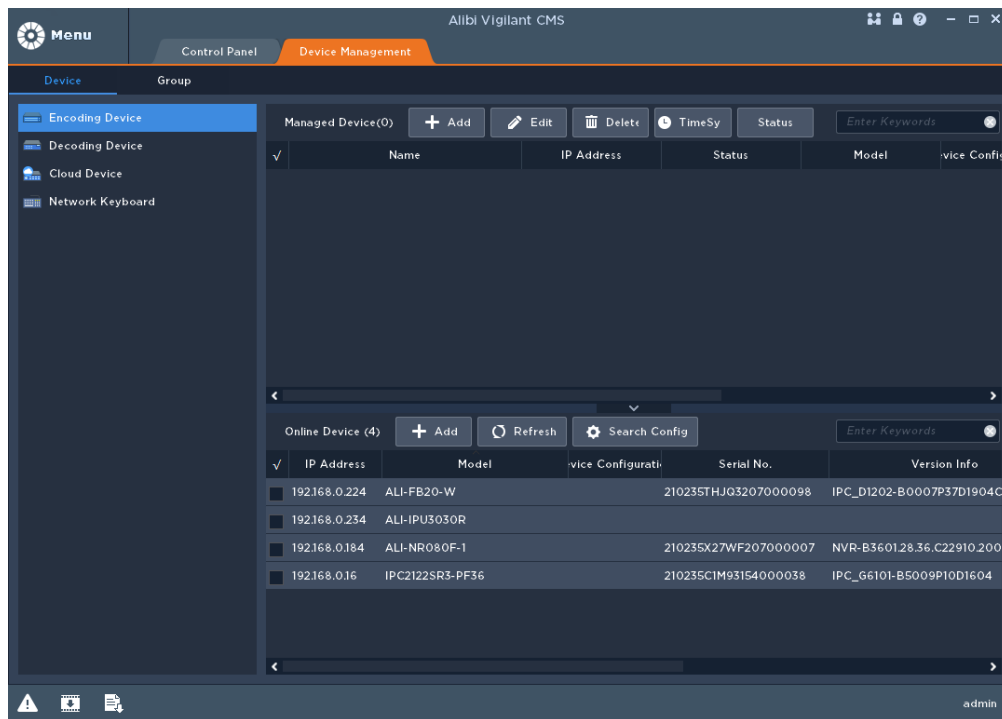
Add an Encoding Device

Encoding devices include IPC (IP camera, camera, or video channel), Network Video Recorders (NVR) and hybrid NVR. When using this features:





- Add devices as the **admin** user (enter username "admin").
- Don't manage devices with different management software. Unexpected problems might occur.

Click the Device Management icon on the control panel. This screen is divided into three sections:

- **Device / Group** panel: Panel on the left for listing Managed Devices by type, or creating groups of devices.
- **Managed Device** list: lists devices in the upper right area of the window that have been added to the software. These devices may be online (logged into) or offline (not logged into).
- **Online Device** list: lists devices in the lower right area of the window that were found on the network. This list is refreshed automatically. This list can be:
 - Sorted by clicking on the column headers
 - Devices can be found by searching for them in a range of IP addresses.
 - Used to add a device to the Managed Device list. Select the device, then click the **Add** button



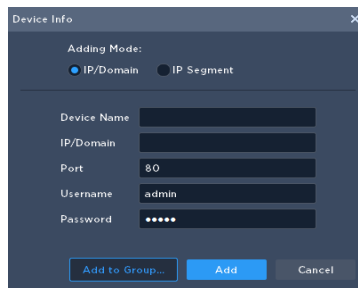
To use **Device Management**, refer to the following table.

To	How To
Add device	<ol style="list-style-type: none"> 1) Click Add. 2) Choose a mode. The device username (admin) and password are always required, regardless of the mode you choose. <ul style="list-style-type: none"> • IP/Domain: Add a device with a known IP address. • IP Segment: Add multiple devices with continuous IP addresses. 3) Click Add to add to the default group, or Add to Group to add to a specified group.
Edit Device	Select device(s) and then click Edit . This button is useful when you want to use the same username and password for adding multiple devices.
Delete device	Select device(s) and then click Delete . The deleted online devices are still on the Online Device list.
Sync time	Click TimeSync to time sync the device time to the PC's clock.
View device status	Click Status to view device online/offline status, recording status, and disk status. You can refresh manually or set an interval to refresh automatically.
Use buttons in the Operation column	<ul style="list-style-type: none"> • : Edit device name, IP address, username/password. If the device status is Offline(incorrect username or password), click this button and change the password to the actual password. You may also double-click to edit a device. • : Configure image, encoding and OSD settings of a device (see Configure an Encoding Device). • : Open the Web interface of the device. • : Restart device.

Add device examples

Devices can be added to the CMS in two ways using the **Add** button at the top of the **Device Management** window:

- Add by **IP/Domain**: Use this method to add a single device to the CMS.
 - a. In the **Add Mode** field, click **IP/Domain**



- b. Enter the device name, and then the IP/Domain (IP address) in the IP/Domain field.

- c. Enter the Username and Password for the device. The Username is usually **admin**.
- d. Click **Add**. You can also assign the devices to a group: click the **Add to Group...** button, then choose a group you want to add the device to, and then click **Add**. The group must be created already created.
- Add by **IP Segment**: Use this method to add several devices that are in the same IP address range.
 - a. In the **Add Mode** field, click **IP Segment**.

- b. In the **Start IP** and **End IP** fields, enter the Start IP address and End IP Address that encompass the range of addresses assigned to the devices you want to add.
- c. Enter the Username and Password for the devices. The Username is usually admin.
- d. Click **Add**. You can also assign the devices to a group: click the **Add to Group...** button, then choose a group you want to add the device to, and then click **Add**. The group must be created already created.


Edit device example.

In this example, the password for the device was corrected. The device status then showed **Online**.

Managed Device	Name	IP Address	Status	Model	Device Config
✓	ALI-NR080F-1_192.168.0.184	192.168.0.184	Offline(incorrect username or password)	ALI-NR080F-1	

Online Device	IP Address	Model	Version Info
✓	192.168.0.224	ALI-FB20-W	210235THJG3207000098 IPC_D1202-B0007P37D1904C
✓	192.168.0.234	ALI-IPU3030R	
✓	192.168.0.184	ALI-NR080F-1	210235X27WF207000007 NVR-B3601.28.36.C22910.200
✓	192.168.0.16	IPC2122SR3-PF36	210235C1M93154000038 IPC_G6101-B5009P10D1604

Configure an Encoding Device

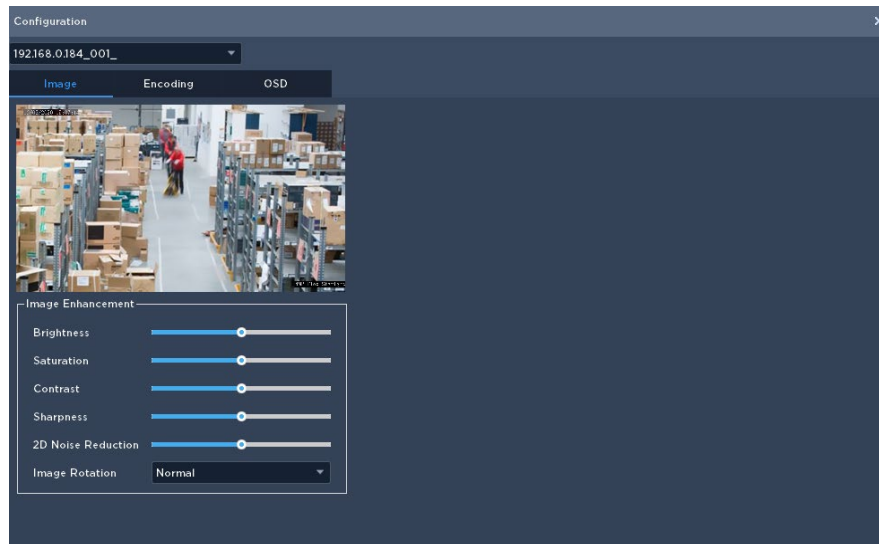
On the **Managed Device** list, click  for an online device to configure the image, encoding and OSD settings without opening the Web interface of the device.



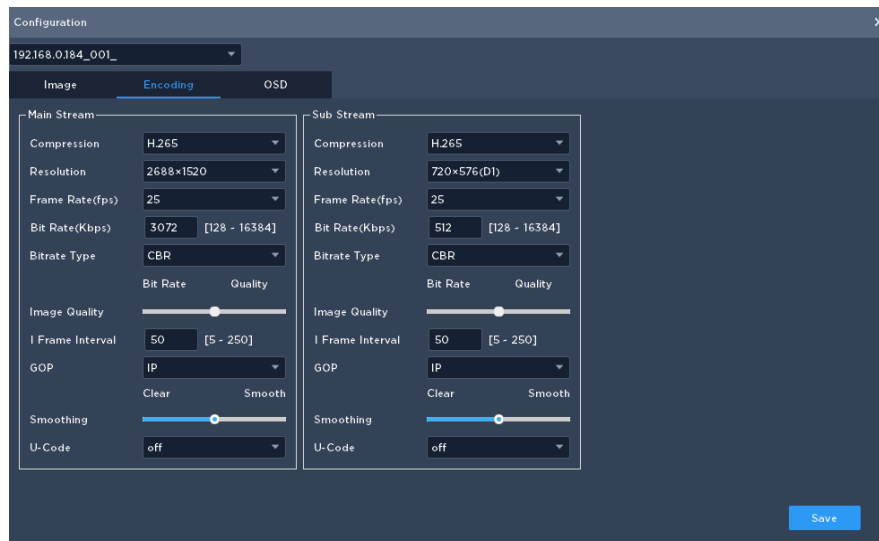
NOTE!

- This function must be supported by the device firmware.
- The configurations displayed may vary with device version and how the device is managed.
- For detailed explanations of image, encoding and OSD parameters, please see device user manual.
- OSD configuration is not available on Mac OS system.

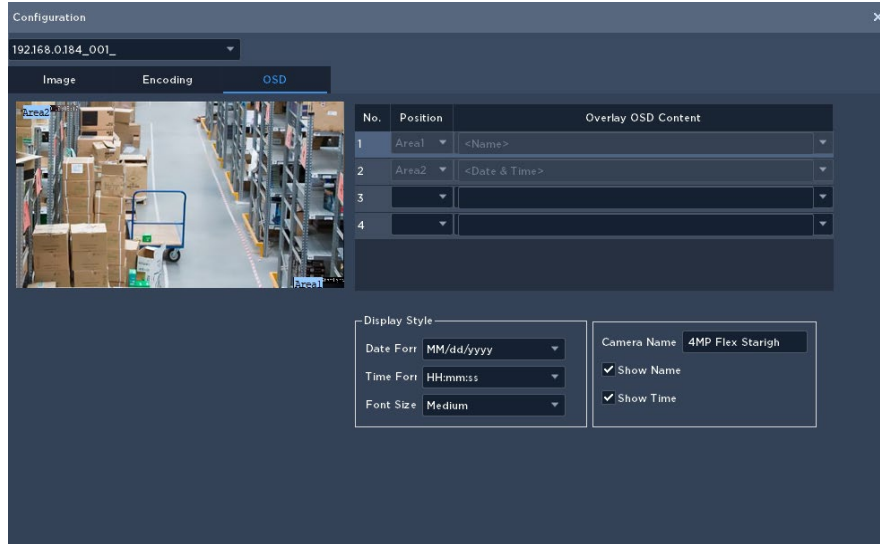
Image Configuration example. Double-click the image to expand to full screen.



Encoding Configuration example. After changing the Encoding configuration, click **Save**.



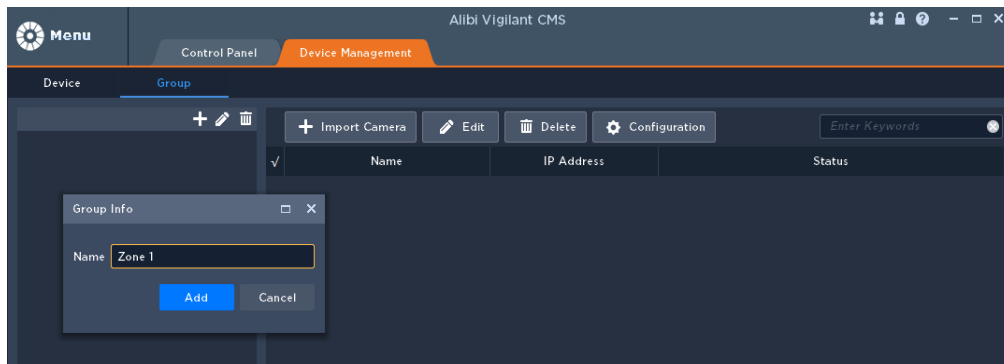
OSD Configuration example. Changes in OSD configuration are applied immediately.



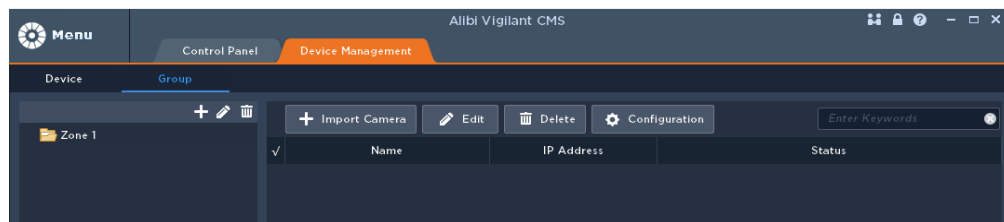
Group Management

Use Group Management to Create groups and manage cameras in different groups.

1. Add a group.

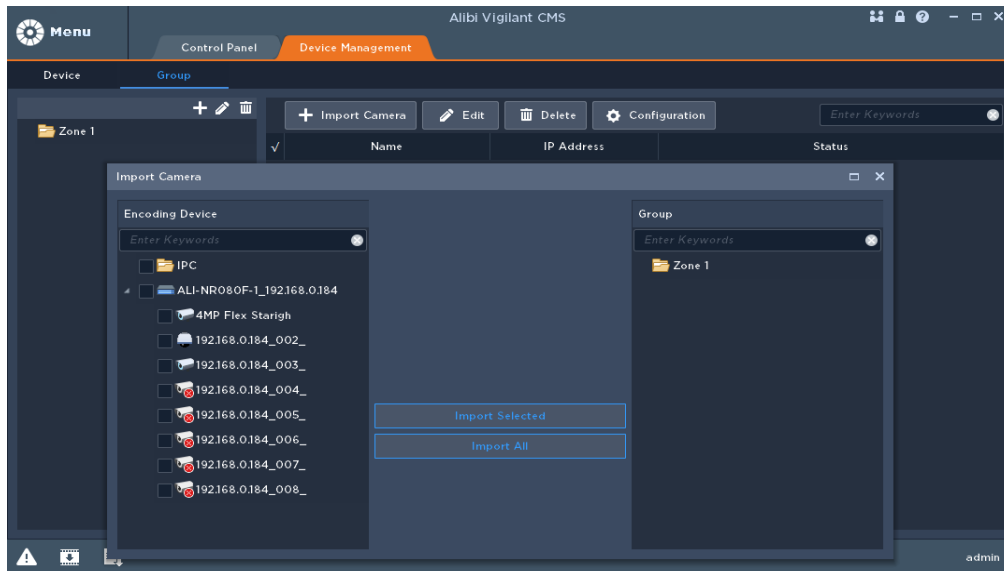


Zone Group added.

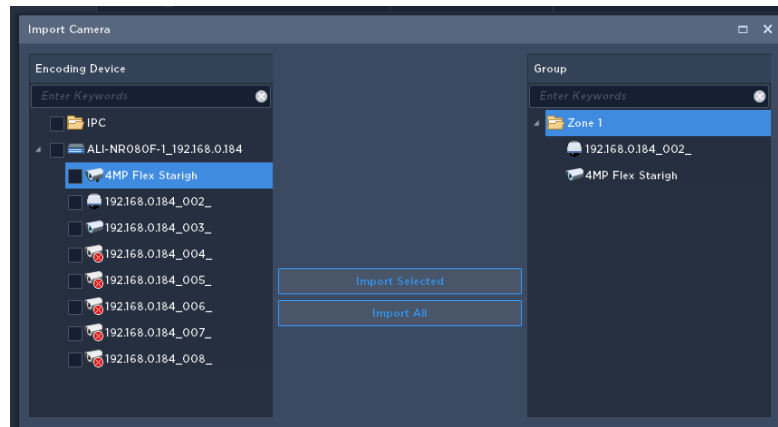


2. Import cameras to the group.

- a. Click the **Import Camera** button (in the screen above) to open the configuration window (see below).



- b. In the screen shown above, click the zone in the right frame you want import cameras to.
- c. Check the select boxes for the cameras in the left frame you want to import to the zone.
- d. Click **Import Selected** to import just those cameras. Click **Import All** to import all cameras to the zone.



3. Other features include:

- To remove a camera from a group, click on the camera in the group you want to delete, and then click the trash icon that appears to the right.
- To rename a camera in a group, click on the camera in the group you want to rename, and then click the pencil (Edit) icon that appears to the right.

Decoding Device

Adding a decoding device (NVR or similar) is similar to adding an encoding device (camera, IPC). See [Add an Encoding Device](#) for more information. In most configurations, encoding devices are attached to and managed by decoding devices.

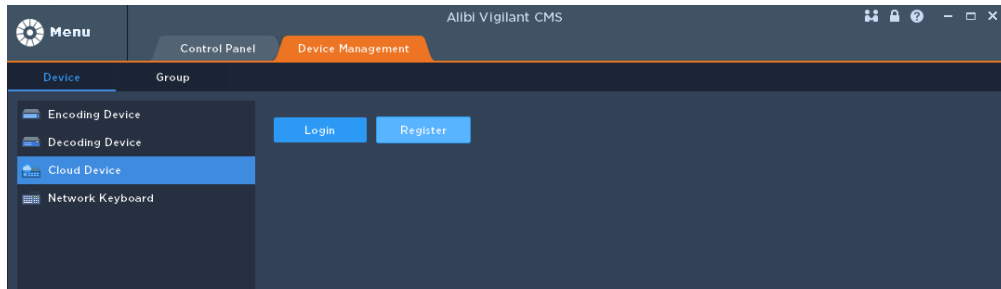
Note: Add decoding devices as the *admin* user.

Cloud Device

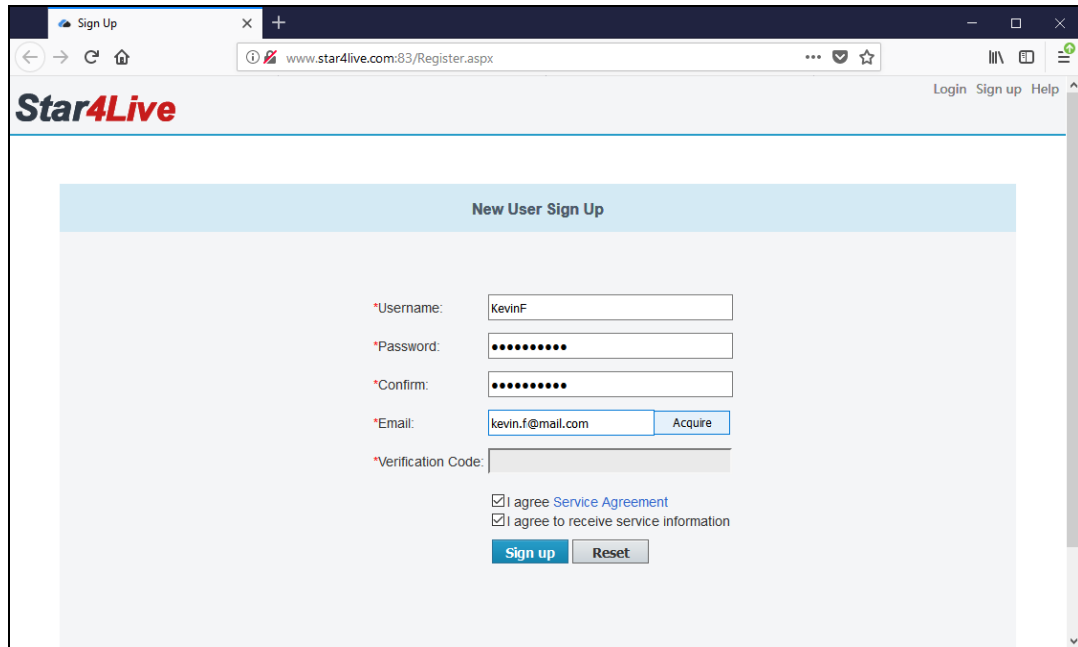
The CMS can simultaneously manage up to 64 cloud devices, including Star4Live devices and devices shared from other cloud accounts. If the total number of devices you want to manage exceeds the limit, click **Device Details** and use the **Add Manage** or **Cancel** button to adjust the cloud devices.

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

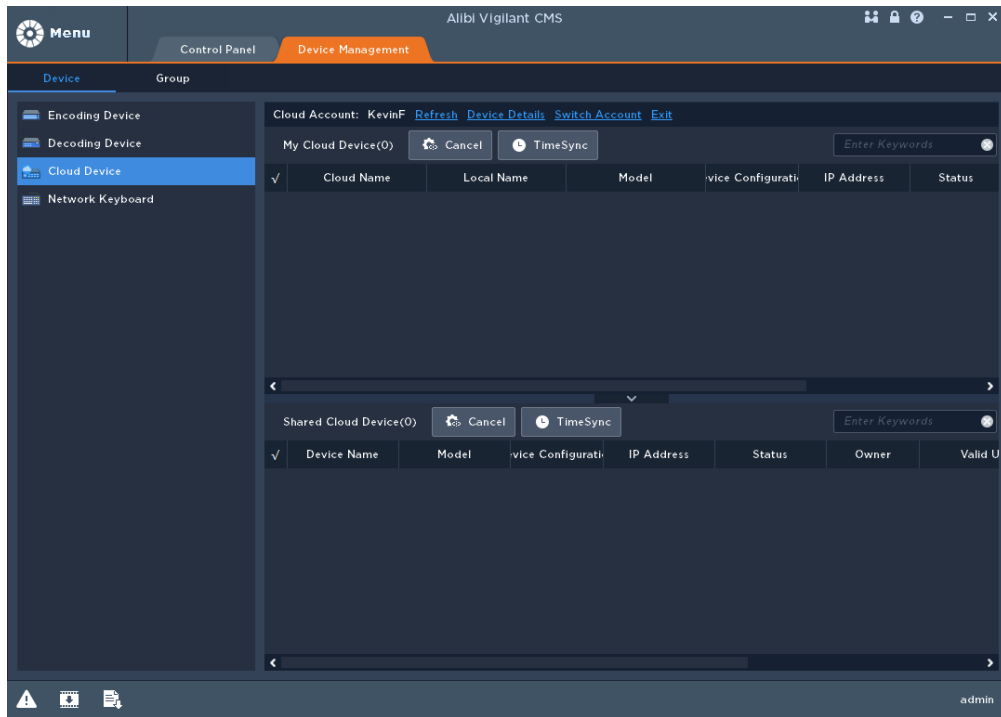
1. Click **Device > Cloud Device**.



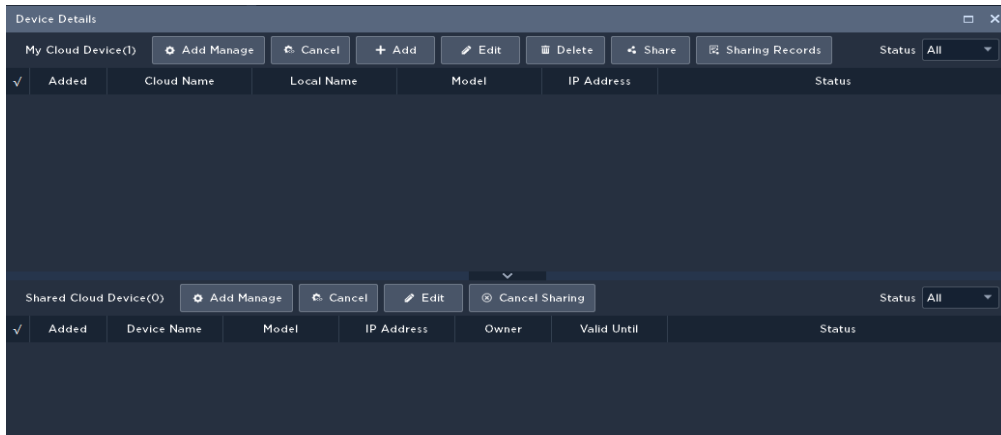
2. If you already have a cloud account, proceed to step 3; otherwise, click **Register** to sign up.



- a. Enter your **Username** and **Password** and **Email** fields with the appropriate information.
 - b. Click **Acquire**. A Verification Code will be sent to your email address. Find the code, and then copy it into the Verification Code field.
 - c. Read the **Service Agreement**. If you agree with the conditions of the agreement, check the select box.
 - d. If you want to receive Service Information, check the select box.
 - e. Click **Sign Up** to complete the registration.
3. In the Login window, enter your username and password for your cloud account, and then click **Login**. Devices under your cloud account are listed, including your cloud devices (under **My Cloud Device**) and devices shared from other cloud accounts (under **Shared Cloud Device**).

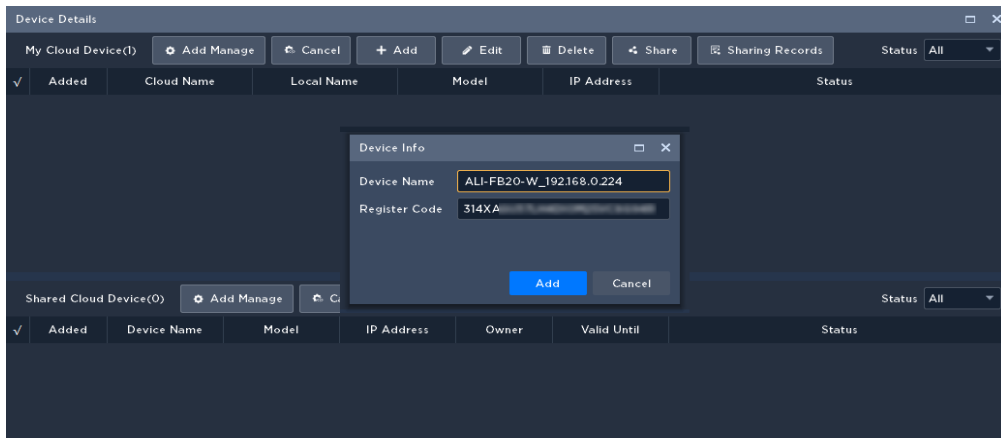


6. Click **Device Details** at the top of the Cloud Account frame to open the Device Details window. In this window, you can add, edit, delete cloud devices, share or cancel sharing, and manage or cancel management.

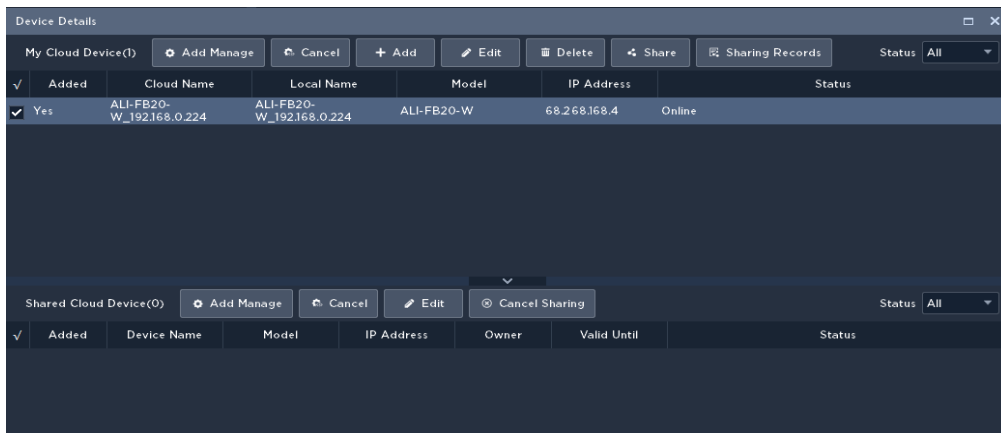


Add device to Cloud

1. Click the **+Add** button to add device(s) to your cloud account.



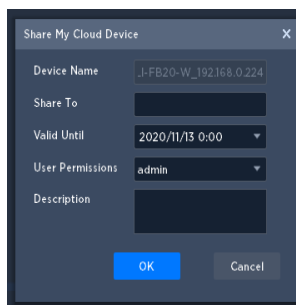
2. In the Device Info window, enter the **Device Name** (from the Device Management Encoding or Decoding Device lists) and the **Registration Code** (from the QR Code sticker on the documentation provided with the device).
3. Click **Add**.



Share My Cloud Device

Click **Share** to share device(s) with another cloud account. Set a sharing period and permissions as needed. The permissions are pre-configured on the device.

1. To share your cloud added device with another account:
 - a. Check the select box for the device you want to share.
 - b. Click the **Share** button.



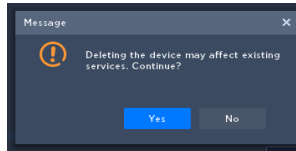
- c. In the **Valid Date** field, set the expiration for the device sharing.

- d. In the **Share To** field, enter the account name of the user you want to share the device with.
- e. Add additional information if needed in the Description field.
- f. Click **OK**.

Delete My Cloud Device

Deleting a device from your My Cloud account does not remove it from the CMS.

1. To delete your device from My Cloud:
 - a. Check the select box for the device you want to delete.
 - b. Click the **Delete** button.



- c. Click **Yes** to remove the device from your My Cloud account.
- d. Check the select box for the device you want to share.

Other My Cloud Features

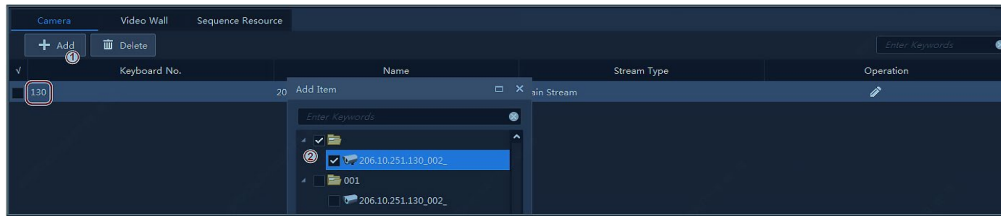
- Click **Cancel** to cancel the management of a device without deleting the device from the cloud account.
- Click **TimeSync** to keep a device synchronized with your PC's system time.
- Click **Add Manage** to add device(s) to the software; click **Cancel** to cancel management without deleting the device from the cloud account.
- Double-click a device or click **Edit** to change the device's name. To sync the new name to cloud, select **Sync to Cloud**.
- Click **Sharing Records** to view sharing history or cancel sharing(s) with other cloud accounts.
- Click **Cancel Sharing** to cancel sharing(s) from other cloud accounts.

Network Keyboard

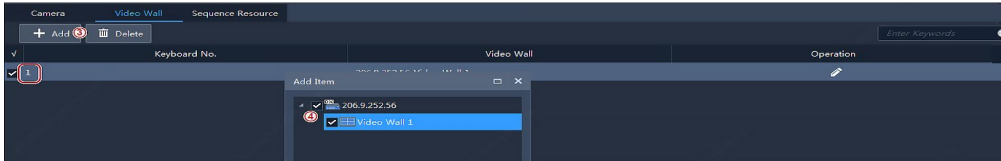
A network keyboard is a device that is connectable to NVR to control NVR menus and PTZ operations. It can be used to control live video and playback, and sequence resource on a video wall.

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

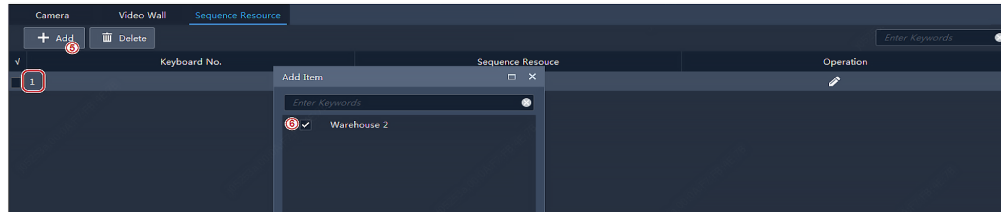
1. Add a camera. On the **Camera** tab, click **Add**, select the camera to play on the video wall and click **OK**. The camera appears on the list. Use the number (e.g., **130**) later when operating the keyboard.



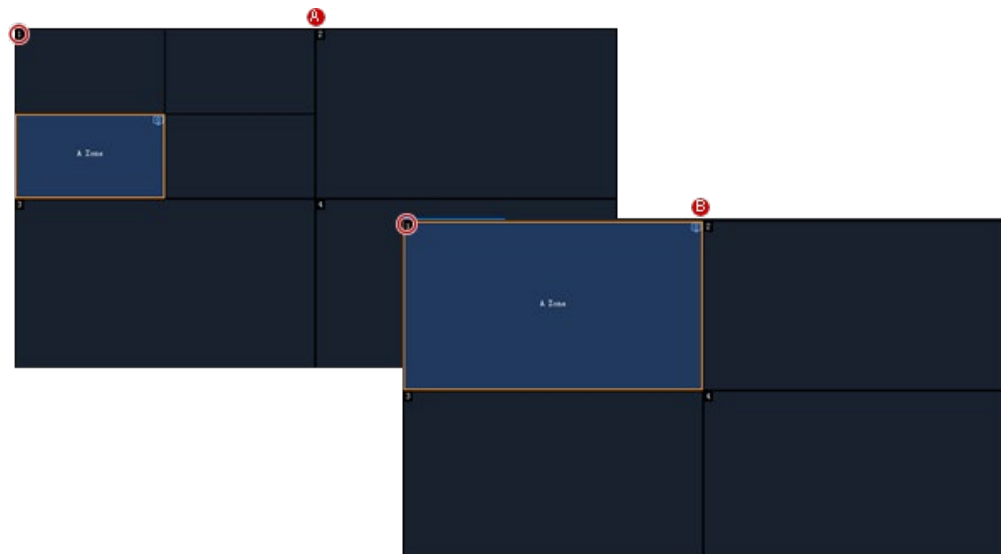
2. Add a video wall. On the **DX Video Wall** tab, click **Add**, select a video wall and then click **OK**. You need to configure video wall first. See [Video Wall](#) for details. Use the number (e.g., **1**) when operating the keyboard.




3. Add a sequence resource. On the **Sequence Resource** tab, click **Add**, select a sequence resource and then click **OK**. You need to configure sequence resource first. See [Sequence Resource](#) for details. Use the number (e.g., **1**) when operating the keyboard.



4. The following operations are on the network keyboard.
 - a. Enter the keyboard number in step 2 (e.g., **1**), then press **AUX4**.
 - b. Enter the window number in the top left corner (which is **1** in both A and B), then press **MON**.
 - c. Enter the split-screen number, then press **WIN**. If the window is split (as in A, below), enter the split-screen number **3**; if the window is not split (as in B), enter **1**. This step is only required for playing live video on video wall. For playing sequence resource, skip this step.



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

- Live video: Enter the keyboard number in step 1 (e.g., **130**), then press **CAM**.
 - Sequence resource: Enter the keyboard number in step 3 (e.g., 1), then press **CAM_G**.
5. After live video starts on the video wall, you can:
- Use the joystick to control the rotation of a PTZ camera, and use the Zoom and Focus buttons to control the zoom and focus.
 - Use the  button to switch live video to recording. See keyboard user manual for more information.

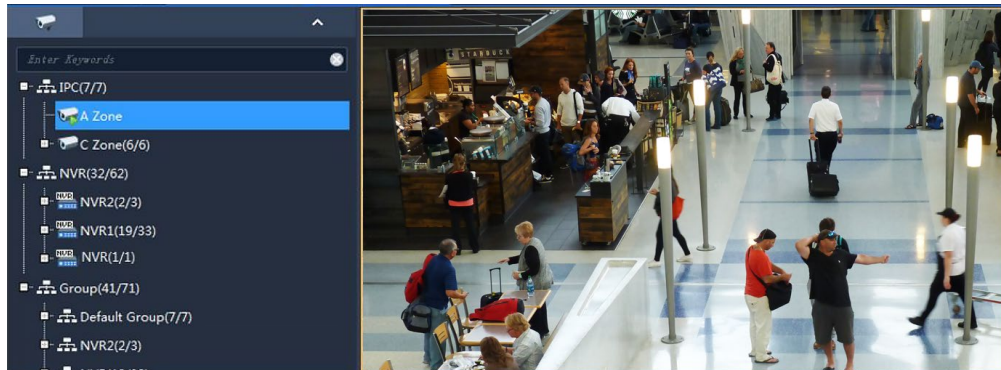
5 Live View

Live View

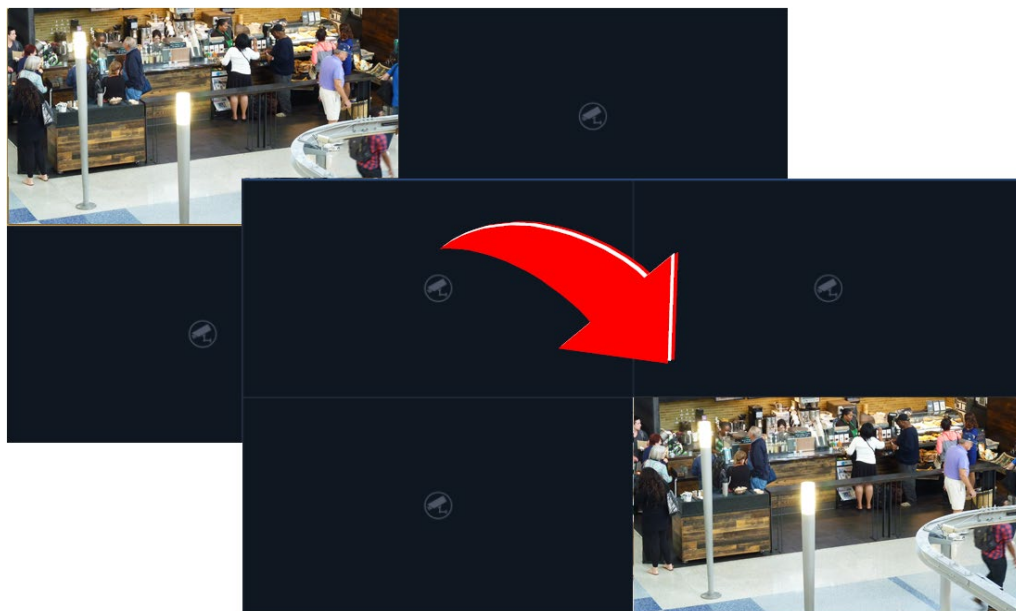
Click **Live View** on the control panel to view live video from cameras.

Play Live Video

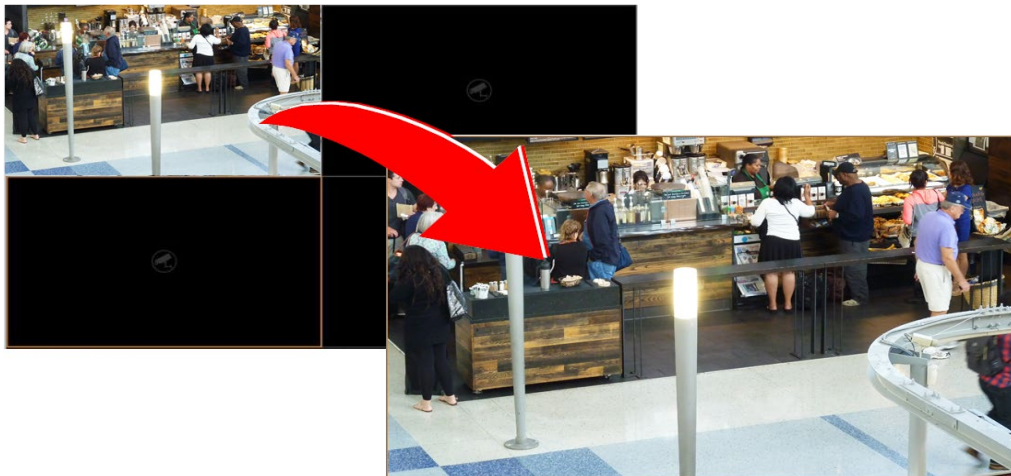
1. In the Control Panel, click the **Live View** button.





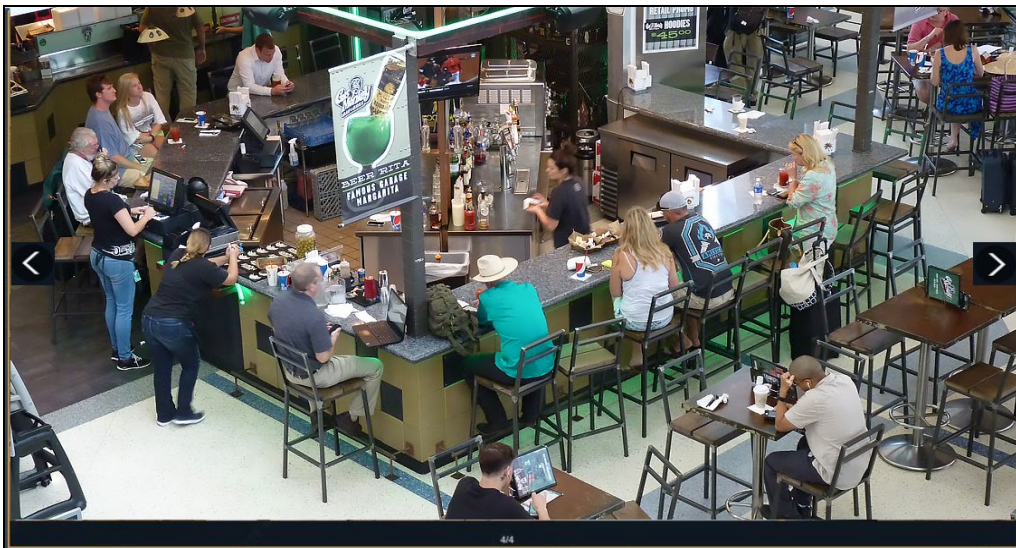
2. In the **Live View** screen, double-click a camera or drag it to a window to start live video.
3. Right-click a camera to choose a stream type or rename the camera.
4. You can drag the image to display it in another window.



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



After maximizing a window, you can move your mouse to the left or right side on the Live View screen, and then click  or  to switch to live video of previous or next channel.



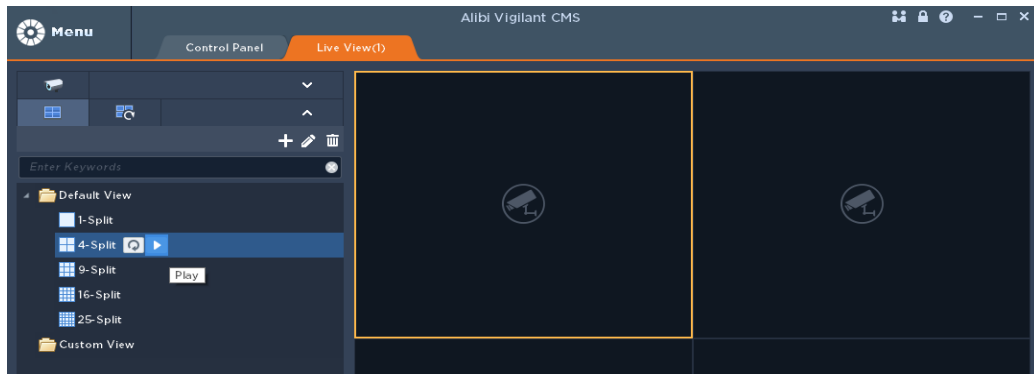
6. Use the live view toolbar or window toolbar during live view.

Play Live Video by View

By default view

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

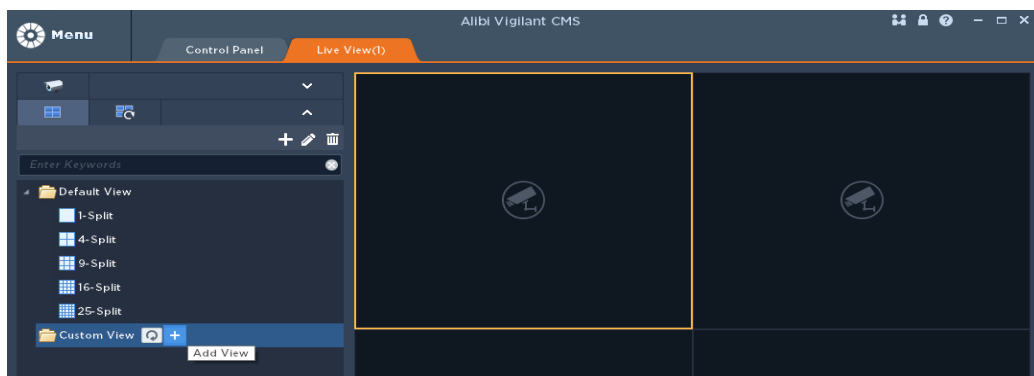
In the example below, the Default View 2x2 icon was selected and the **Play** icon was clicked. This will open by default Live video from the first 4 cameras to appear in the four video frames as Cam 1 (upper left), Cam 2 (upper right), Cam 3 (lower left), Cam 4 (lower right).



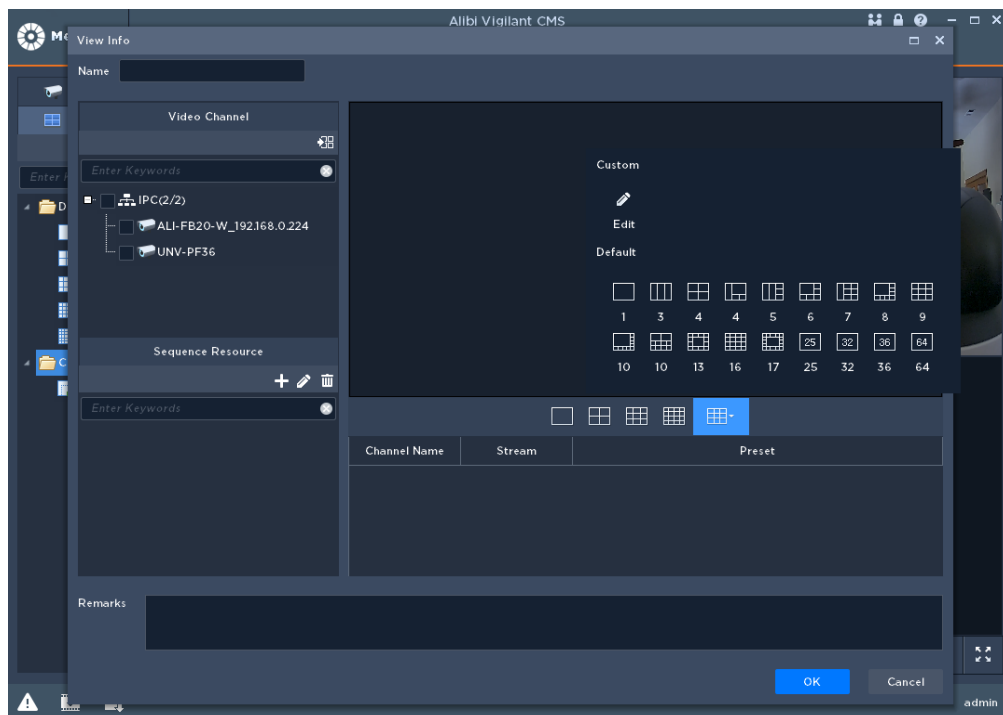
By custom view

Play live video from specified cameras by a custom view.


1. On the **View** tab, click the **Add View** button on the Custom View line to create a new view. See below.

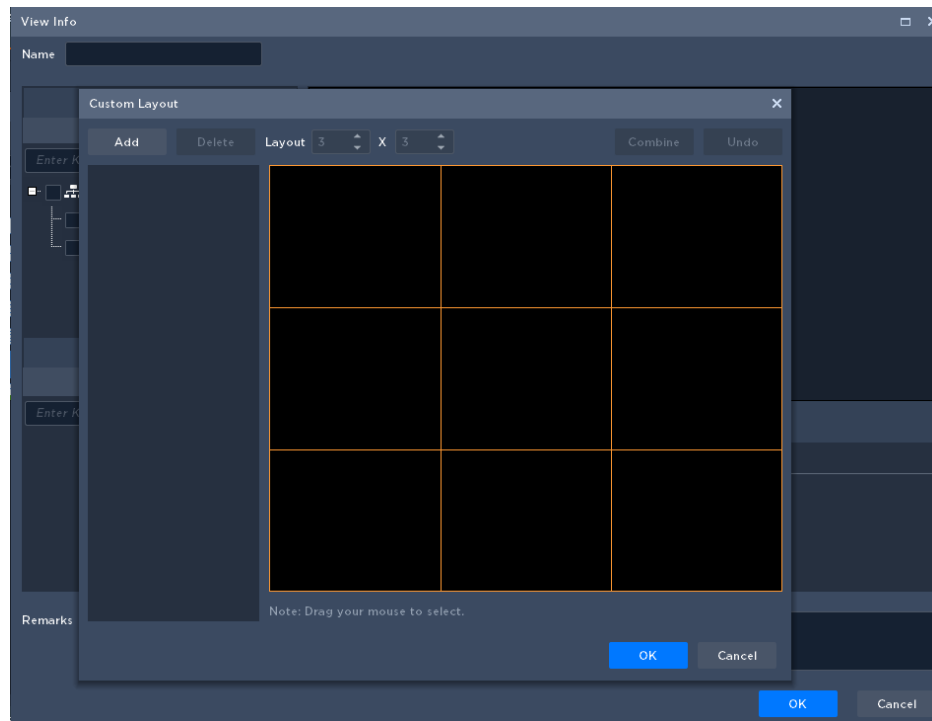


2. In the **View Info** window that opens, select the screen split option you want to use. You can select one of the default splits (1x1, 2x2, 3x3, or 4x4) or click the custom layout button to select an option in the pop-up window. See below.

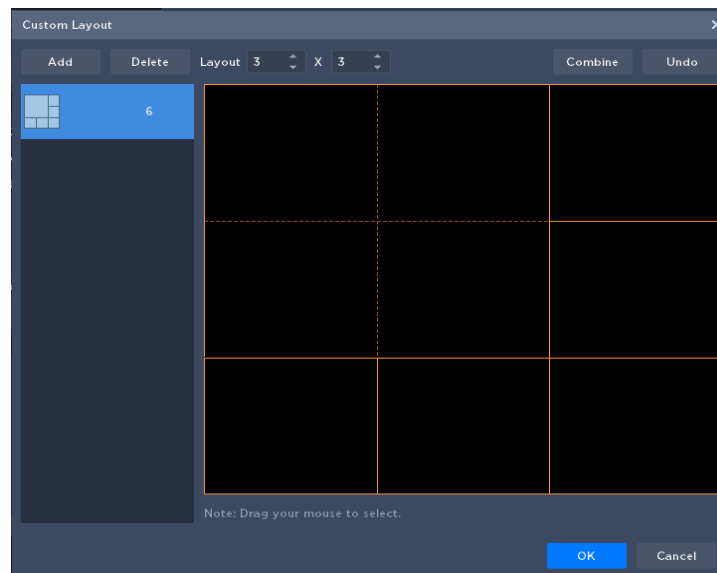


3. To create a custom view:

- a. Click  icon to create a custom layout split configuration (see above). A **Custom Layout** window will open.



- b. Click the **Add** button.
- c. Select the frame split numbers you want to use. By default, the window shows a 3x3 frame.
- d. To combine some frames into 1, use the mouse to drag a rectangle across the frames you want to combine, and then click the **Combine** button.

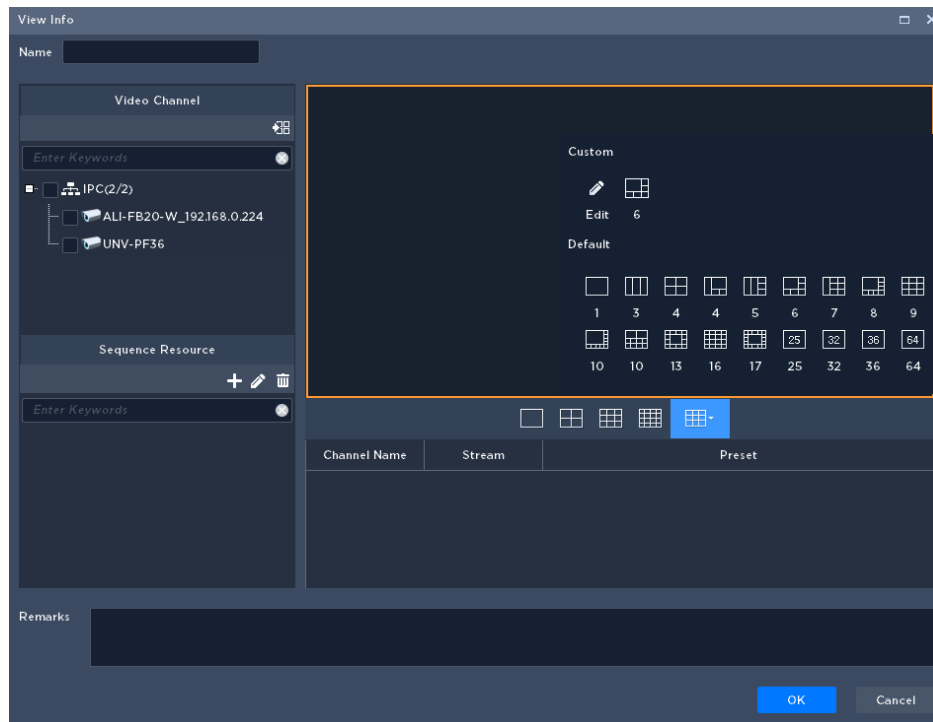


In the example above, a rectangle was dragged across the four upper left frames, and then Combine was clicked. Notice that the left panel of the window shows an image representing the custom frame

you configured. Repeat this method to create additional custom layouts.

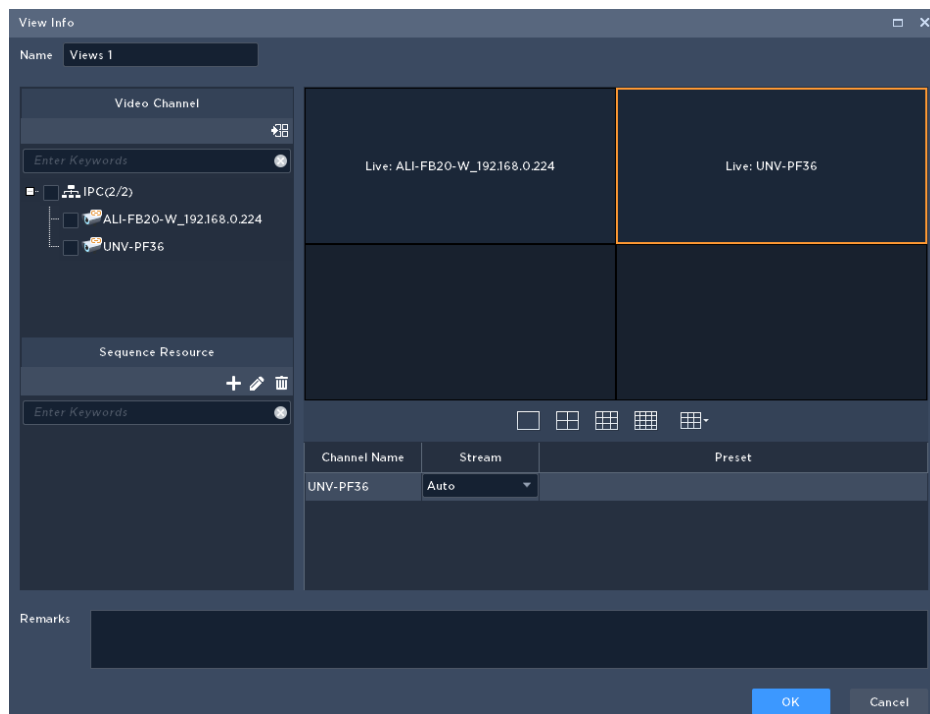
To undo a selection, click **Undo**.

- e. Click **OK** to close the **Custom layout** window and return to the **View Info** window.
- f. Notice that the custom layout you created now appears in the custom layout options panel.

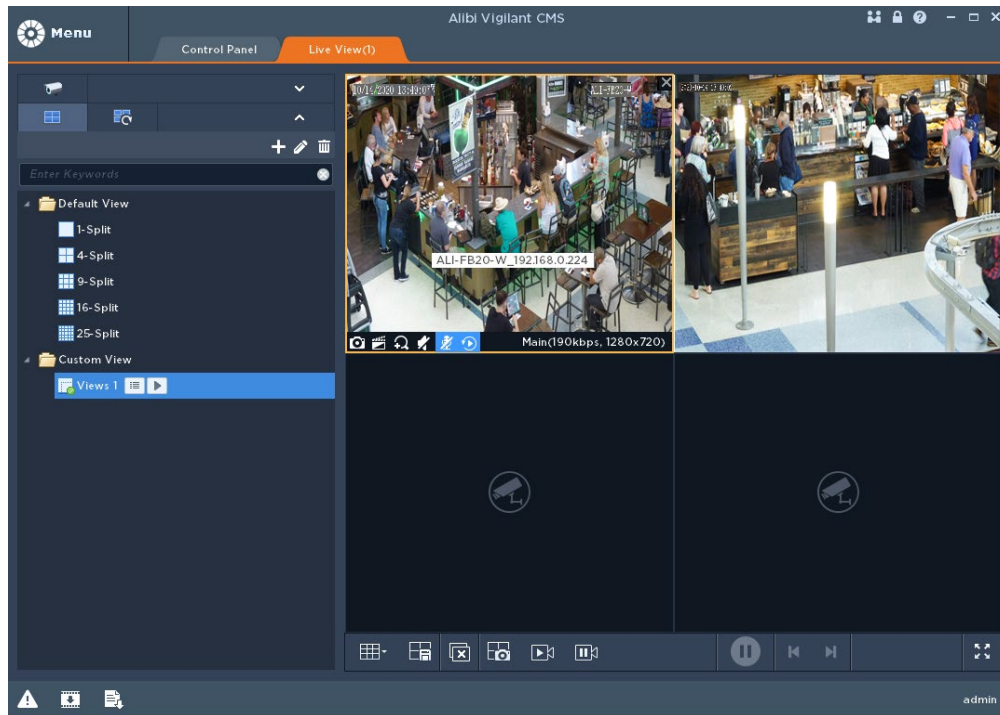


4. In the example below:

- a. The custom view was **Named View 1** (see the upper left corner).



- b. A 2x2 screen split was selected. Any of the custom split layouts could be selected.
 - c. In the **View Channel** frame, IPC **ALI-FB20-W_192.168.0.224** was dragged and dropped on the upper left video frame, and camera **UNV-PF36** was dragged and dropped on the upper right frame. Additional cameras could be dropped onto the unused frames.
2. Click **OK** to save your custom view, **View 1**.
 5. To open your custom view, click on the **View 1** entry under the **Custom View** folder in the left frame, and then click the **Play** icon.



Live View controls

Live View Toolbar

The live view toolbar is at the bottom of the live view video frames. See the image above.



Button	Description
A	Set window layout.
B	Save the current view directly or as another view.
C	Close all windows playing video.
D	Snapshot all.
E	Start recording of all windows playing.

F	Stop recording of all windows playing.
G	Pause/resume sequence display
H/I	Play the previous/next group or view in sequence display.
J	Switch to full screen mode. Press Esc to exit.

Live View window toolbar




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



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

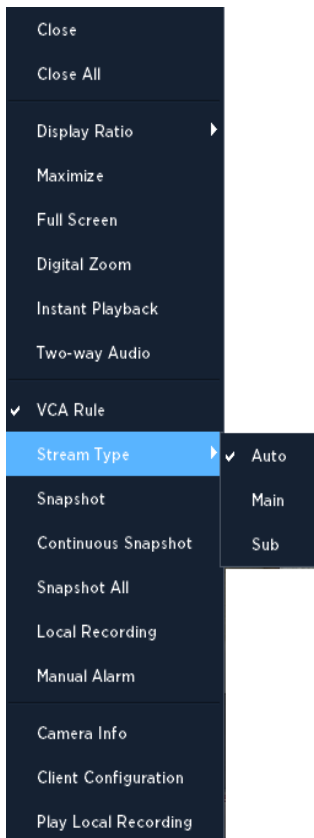
Other Live View window icons

Other Live View icons include:

-  when the camera is a PTZ camera. Click this button to open the PTZ control panel.
-  when the camera is a fisheye camera. Click this button to open the fisheye control panel.
-  when the camera is a multi-sensor camera. Click this button to enable tracking mode.

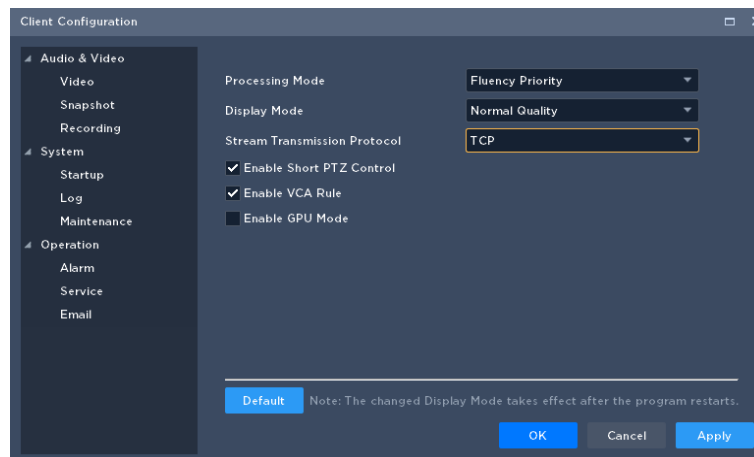
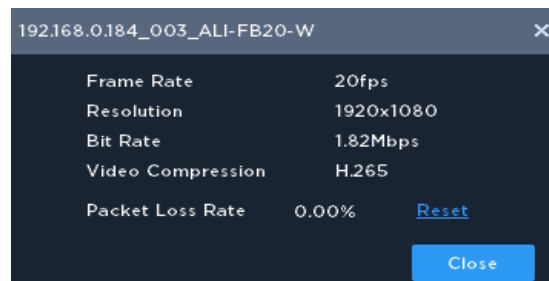
Live View Shortcut Menu

A shortcut menu appears when you right-click a live view video frame. Some items on the menu provide same functions as the live view toolbar and window toolbar. Settings accessed through the right-click menu apply to the selected video channel. Some are described in the table and graphics shown below.



Parameter	Description
Stream Type	Select a stream type for the current video frame: auto, main, sub and third stream (if available).
Manual Alarm	Trigger an alarm manually. Triggering the alarm will produce the configured actions.
Camera Info	Display frame rate, resolution, bit rate, video compression format, and packet loss rate for the stream in the video frame.
Play Local Recording	Open the folder on your PC containing a local recordings, and then play it in the selected window.

Camera Info



NOTE!

The default stream type is auto.

- For local devices, the client chooses a stream type according to the screen layout.
- 4 windows or less: Main stream

- 4 to 16 windows(16 included): Sub stream
- More than 16 windows: Third stream
- For cloud devices, the default is third stream.

PTZ Control

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

A Preset is a feature of the PTZ camera that enables the administrator to configure it to point at a specific target (position) with a zoom level and focus in two clicks. Most PTZ cameras support a large number of presets. The ALI-PZ20-ZA camera supports up to 1024 presets.

A patrol is a feature of the camera that enables administrators to automatically point at several different targets in succession, pausing on each target for a configurable amount of time. Generally, Patrols can be created in two ways:

- 1) Using presets to move the camera to specific targets, pausing at each target for a set amount of time.
- 2) Recording manually controlled movements of the camera.



Patrols can be called and executed in two clicks.

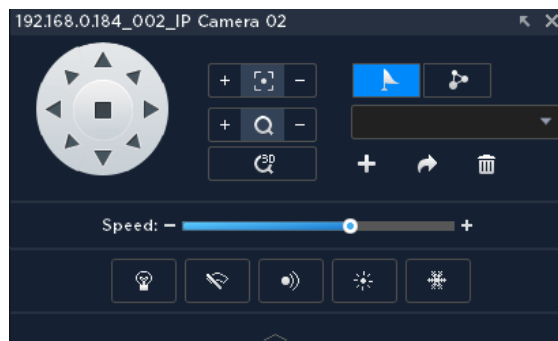









NOTE!

- PTZ control is available for PTZ cameras only and it may vary depending on the camera's capability and the protocol it supports.
- Some manufacturers reserve certain presets for special use such as wiper or menu. Please refer to camera specifications before use.
- Some mini-PTZ cameras do not support a Patrol feature.

PTZ Control Panel

Click  on the Live View video frame toolbar to open the PTZ control panel. You can also move the control panel to the left by clicking the  icon in the upper right corner.

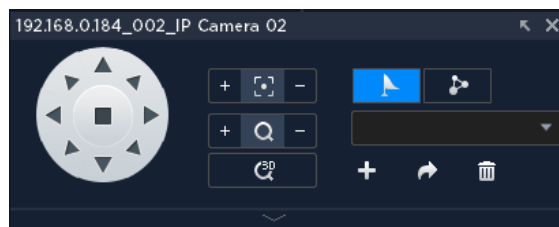


Parameter	Description
	Control rotation direction or stop rotation. Tip: <ul style="list-style-type: none"> Use the Shortcut PTZ control to redirect the camera: place the mouse pointer on the live view window. When the shape changes to ►, click and hold the left button to rotate the camera. You can enable or disable Shortcut PTZ Control in Client Configuration > Audio & Video Shortcut PTZ Control is not available when 3D positioning is enabled.
	Adjust focus and zoom.
	<ul style="list-style-type: none"> Control the light. Control the wiper. Control the IR. Control the heater. Control the snow removal function.
	Adjust rotation speed.
	Click the tab to enable/disable 3D positioning. With 3D positioning enabled: <ul style="list-style-type: none"> Click somewhere on the image, and the camera automatically rotates toward the direction. Drag the mouse from top to bottom to zoom in on the selected area. Drag from bottom to top to zoom out.
	Preset tab. Opens Preset setup and Call buttons.
	Patrol tab. Opens Patrol record setup and Preset setup buttons, and Patrol Call button.

Preset

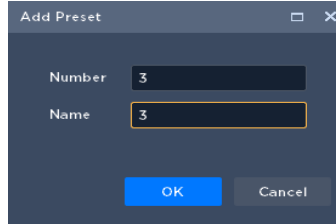
Add a preset to save the status of a PTZ camera. When needed, you can point the camera to the previously set target. Presets are also used to set a preset patrol (see [Preset Patrol](#)).

1. Point the camera to the desired target.

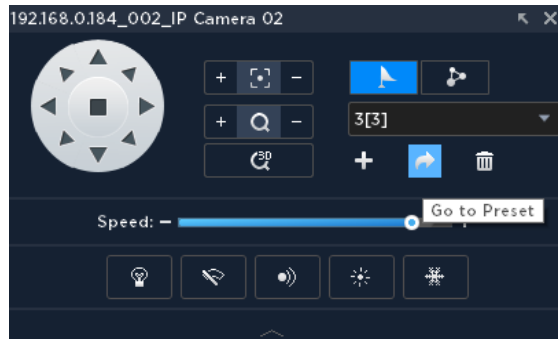


2. Click the **Preset** tab. In the screen above, it is blue when selected.
3. Click the **+** symbol button to add a preset.

4. In the Add Preset window, enter a number and a name for the preset, then click **Save**.



5. To Go To (point the camera at) a Preset:
 - a. Open the drop-down list under the Preset button, and then click on the preset you want to go to. In the window below, Preset **3[3]** was selected.

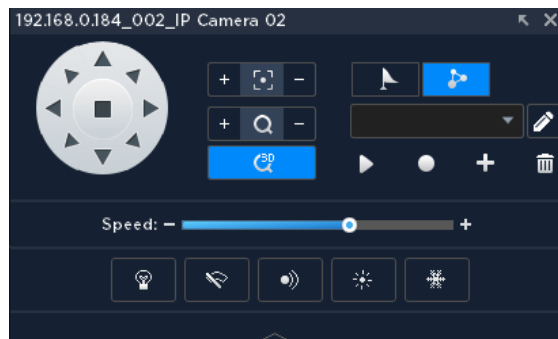


- b. Click the arrow button next to the **+** symbol button.

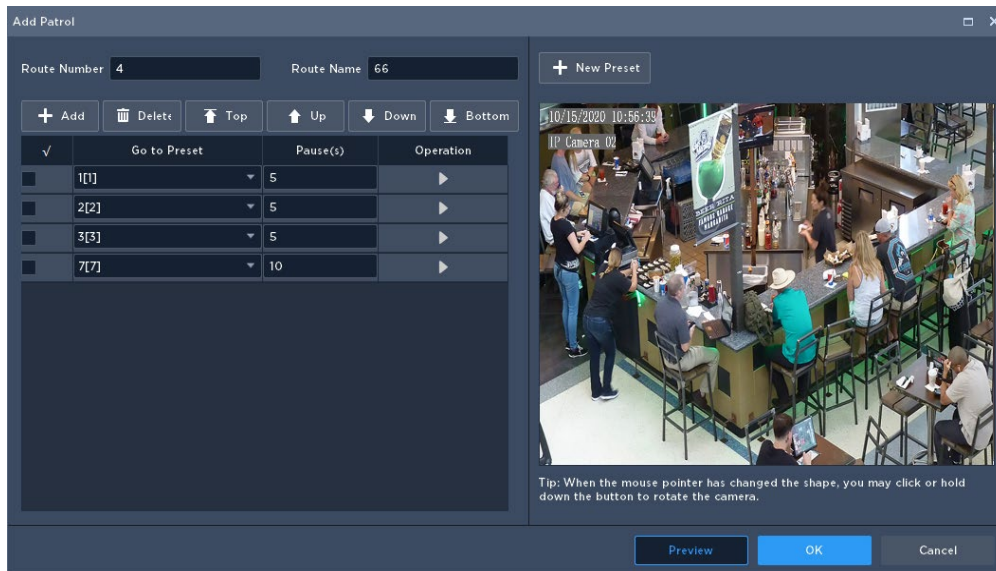
Preset Patrol

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

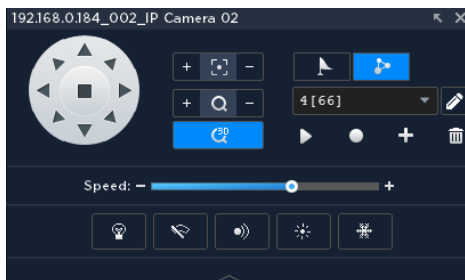
1. In the PTZ control window, click the **Patrol** tab (see below in blue at the top of the window).



2. Click the **+** symbol button to add a Patrol.
3. In the **Add Patrol** window:
 - a. Enter a **Route Number** and **Route Name** in the fields at the top of the window.



- b. Click the **+** **Add** button to add a Preset to the Patrol. An entry line in the table will appear.
 - c. Open the **Go to Preset** drop-down list, and select a pre-configured Preset to add to the patrol. Also, in the **Pause** field, enter the number of seconds you want the camera to remain at that preset.
 - d. Repeat the previous two sub-steps to add additional Presets to the Patrol.
 - e. To rearrange the Preset list, click the select box for the Preset you want to reposition in the list, then click the **Top**, **Up**, **Down** or **Bottom** buttons to move the entry, or click **Delete** to remove the entry.
 - f. To test the patrol you setup, click **Preview**.
 - g. Click **OK** to save your setup and close the **Add Patrol** window.
4. To play the patrol, open the drop-down list in the PTZ window and select the patrol you created (**4[66]**).

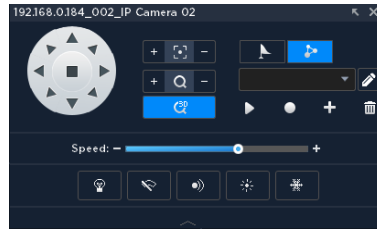


5. Click the **Play** (▶) button.

Recorded Patrol

You can create a patrol by recording the manually controlled motion of the camera, and then rerun that sequence as a patrol. The recorded patrol is named **0[Recorded Patrol]**. PTZ cameras that support this feature will save at most one recorded patrol.

1. In the PTZ control window, click the **Patrol** tab (see below in blue at the top of the window).



2. Click the dot (●) button to start recording the patrol route. When recording starts, the dot button changes to a stop recording (■) button.
3. Use the directional buttons or shortcut PTZ control to move the camera to a surveillance targets, and then pause for an intentional length of time. Adjust zoom and focus as needed. Continue this method until all the surveillance targets you want to include are contained in the patrol route.
4. Click the stop recording (■) button to stop recording. The recorded patrol route appears in the patrol route list (by the name *0[Recorded Patrol]*).
5. To play the recorded patrol, open the drop-down list in the PTZ window and select the patrol you created (**0[Recorded Patrol]**).
6. Click the **Play** button.

Fisheye Control




NOTE!

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

1. For fisheye control:
 - a. Set the **Mount** mode: Ceiling, Wall or Desktop
 - b. Set the **Display** mode: Original Image, 360° Panoramic+1PTZ, 180° Panoramic, Fisheye+3PTZ, Fisheye+4PTZ, 360° Panoramic+6PTZ, Fisheye+8PTZ, Panoramic, Panoramic+3PTZ, Panoramic+4PTZ, Panoramic+8PTZ. **NOTE:** Clicking on the Original Image switches from dewarping mode to normal mode.

Tracking Mode

In tracking mode, if you play main stream of the multi-sensor camera, the camera will automatically track objects that trigger the set alarm rule.

1. Click  in the live view or playback window toolbar. 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.
2. Perform the following operations as needed:
 - Drag a box in the panoramic image to change the range of the corresponding PTZ image.
 - Scroll your mouse wheel on a box or a PTZ image to zoom in or out.



NOTE!

- To use auto tracking function, you need to enable perimeter protection function for the camera first.
 - Enabling tracking mode will disable digital zoom.
 - Tracking mode is not available on Mac OS system.
-

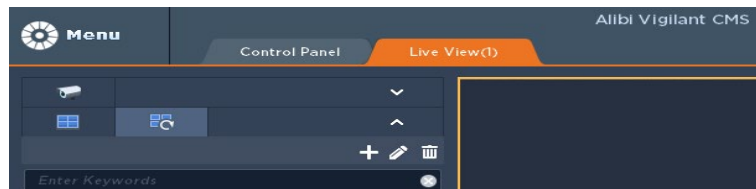
Sequence Display

Sequence Resource

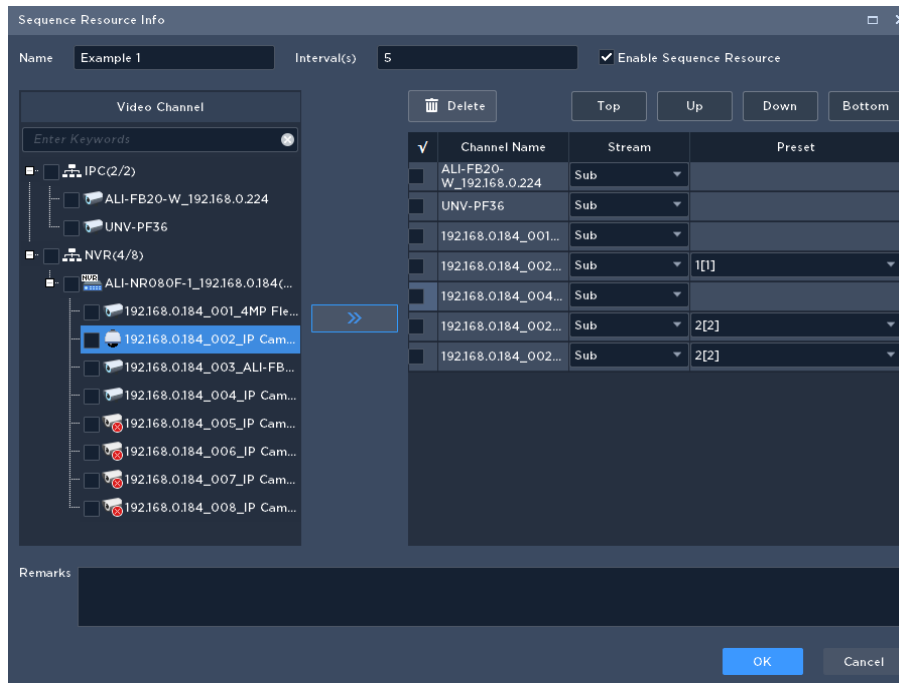
In the Live View menu, you can create a sequence resource to display the live view images from cameras sequentially. This enables you use a single monitor to see a larger live view image of the video stream from each cameras in the system a group at a time rather than viewing many cameras at once on a single monitor.

Create a sequence resource

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



2. In the Sequence Resource info window:
 - a. Enter a name for the resource in the **Name** field.

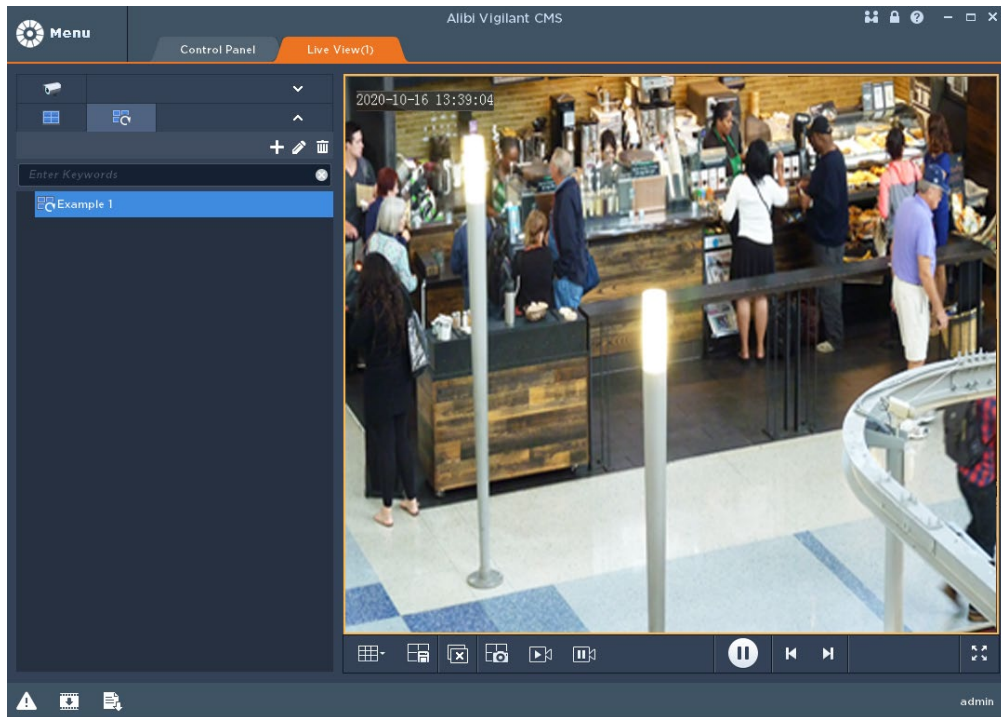


- b. In the **Interval** field, enter a pause time in seconds for displaying each group of cameras.
- c. In the Video Channel list, click the select boxes for the cameras you want to display, and then click the >> button to add them to the list in the right frame. If you add a PTZ camera, you can also select the preset you want the camera to display. See above.
- d. Rearrange the list of channels by checking the select box for a camera, then clicking a **Top**, **Up**, **Down** or **Bottom** button to adjust its position in the list.

2. Click **OK** to save the settings for the **Example 1** sequence resource.

Play a sequence resource

To play a sequence resource, click the **Sequence Resource** tab (highlighted below on the left), and then double-click on the sequence resource you want to play.

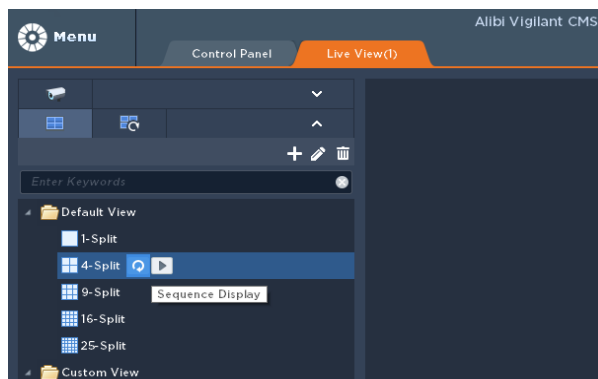


Sequence View

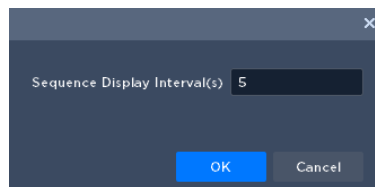
Sequence a default view

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

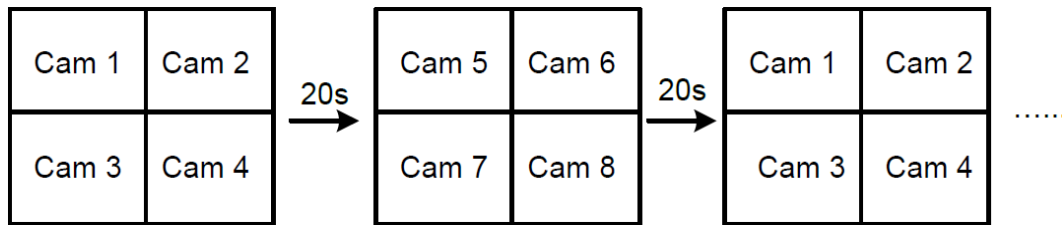
1. On the **View** tab, click the **Sequence Display** button for a split view. Take **4-Split** view for example.



2. Set **Sequence Display Interval** (in seconds).



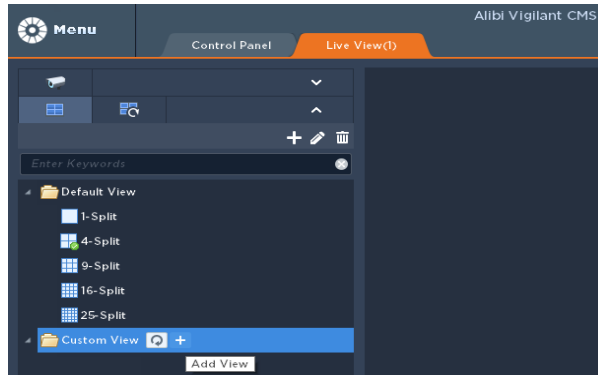
3. For systems with eight cameras, and the sequence interval is set to 20 seconds. Then the sequence is illustrated as shown below.



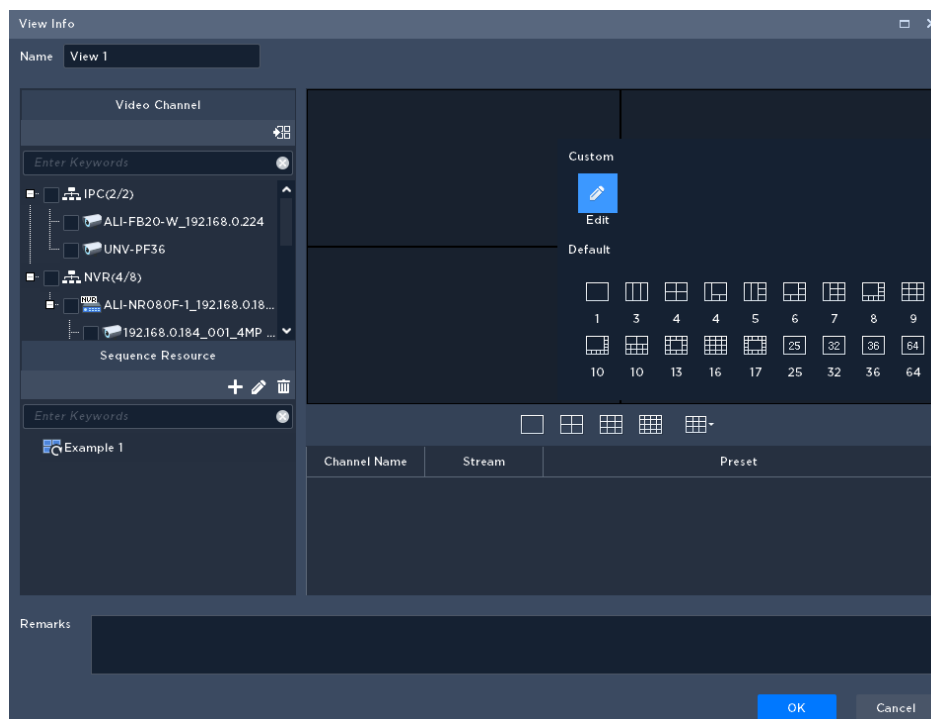
Sequence Custom Views

Play live video by custom views in sequence.

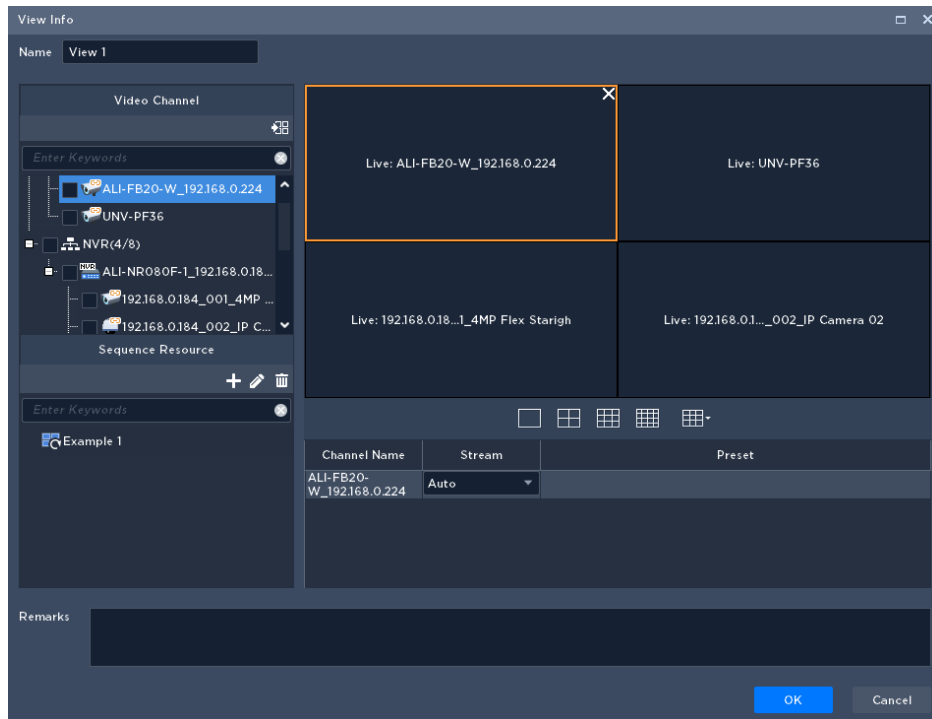
1. To create a Custom View, click the **Add View (+)** icon in the **Custom View** group.



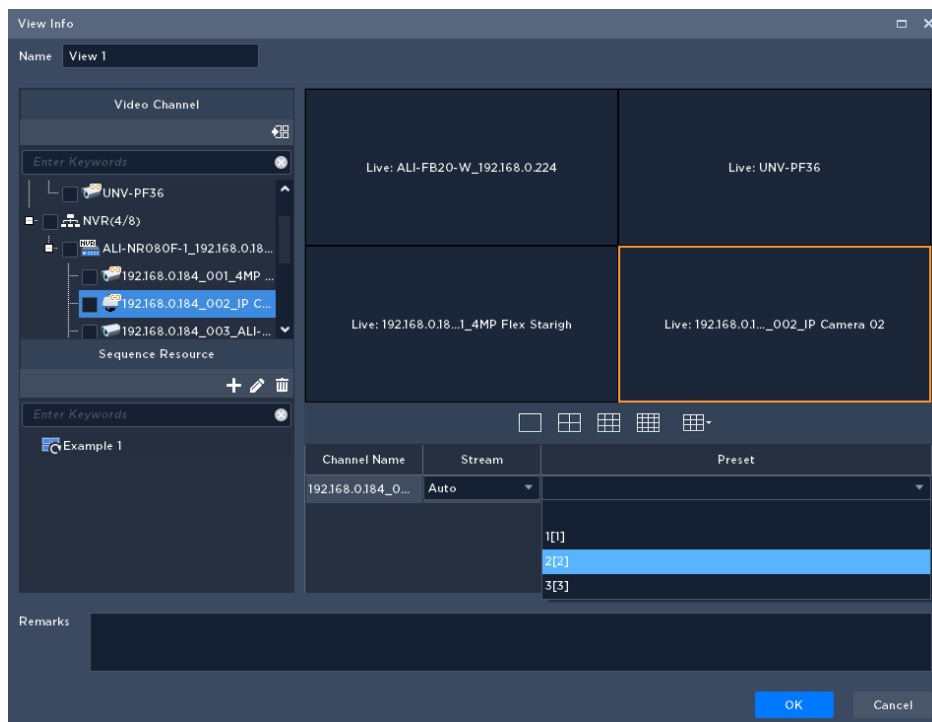
2. In the View Info window (see below), enter a name for the view in the Name field.



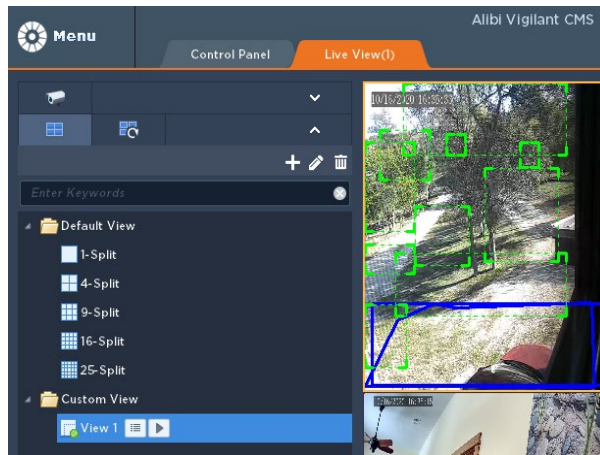
3. Click the screen split option you want to use. You can also create a custom screen split. See above. In this example, a 2x2 split is selected.
4. Drag video channels from the left frame into the video frames on the right.



- Click on a video frame, and then in the lower right frame, select the stream option you want to see. For PTZ cameras, you can also select a Preset (see below).



- Click **OK** to save your settings. An entry for the view you created will appear in the left frame under the Custom View group. Click the entry to open the view.



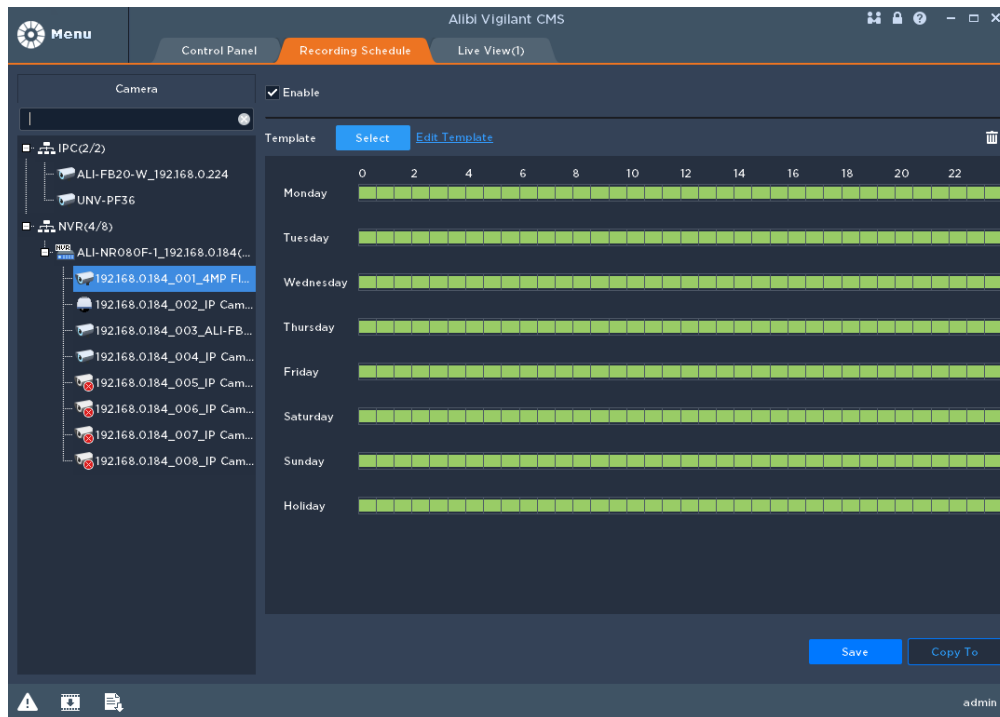
6 Recording and Playback

Record videos and search for playback or download.

Configure a Recording Schedule

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

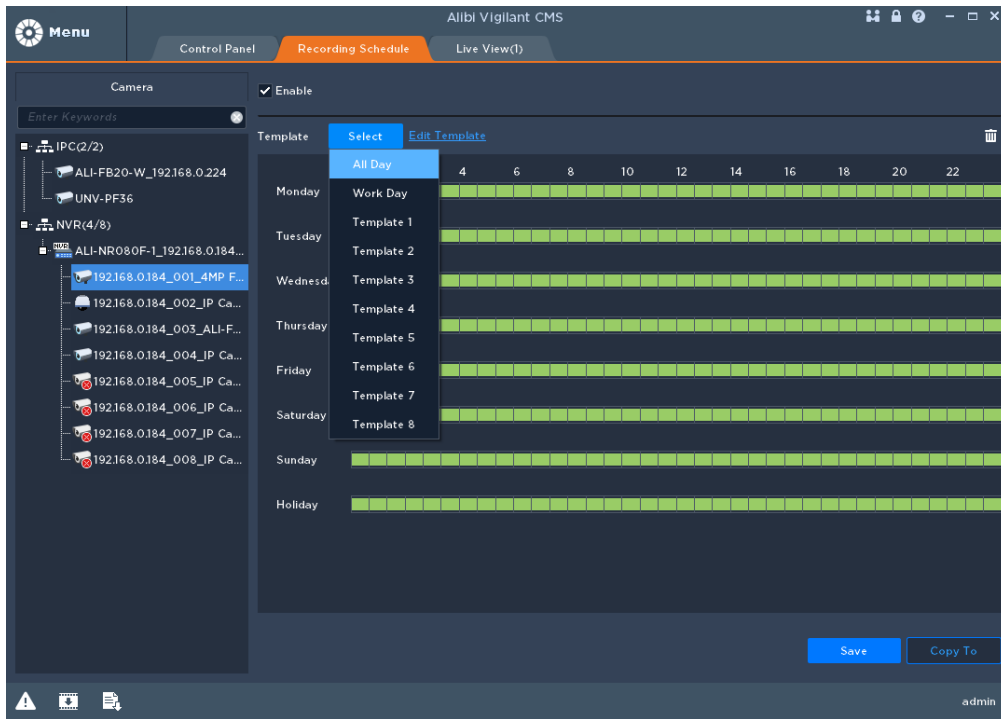
Click **Recording Schedule** on the control panel and then follow the steps.



Configure a 24/7 Recording Schedule

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

1. Click on the camera channel for which you want to configure a recording schedule.
2. Click the **Enable** box at the top of the menu to check it.
3. Click the **Select** button and then select the **All Day** template. The green fill on the calendar means recording can occur during that time.



NOTE!

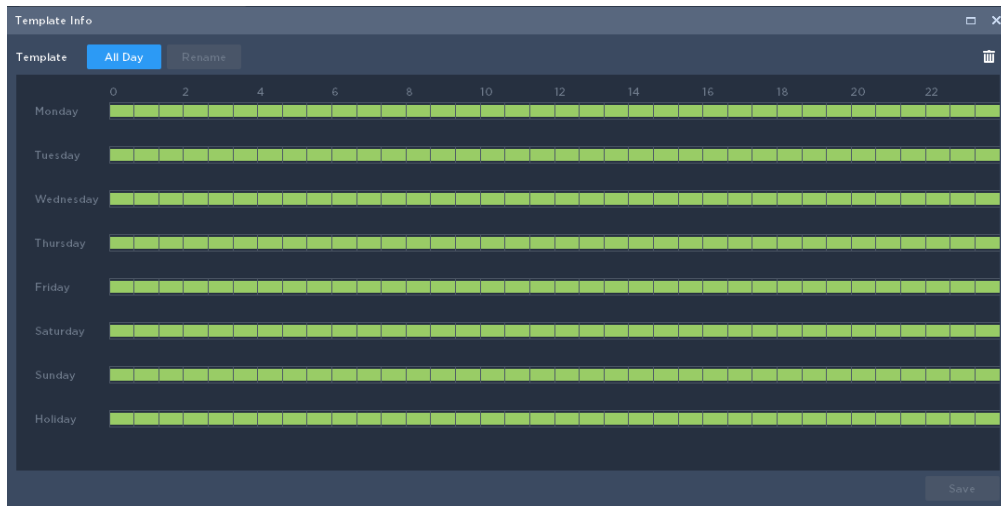
Templates include **All Day**, **Work Day**, and 8 blank templates you can configure, save and apply to any video channels.

4. Click **Save**.

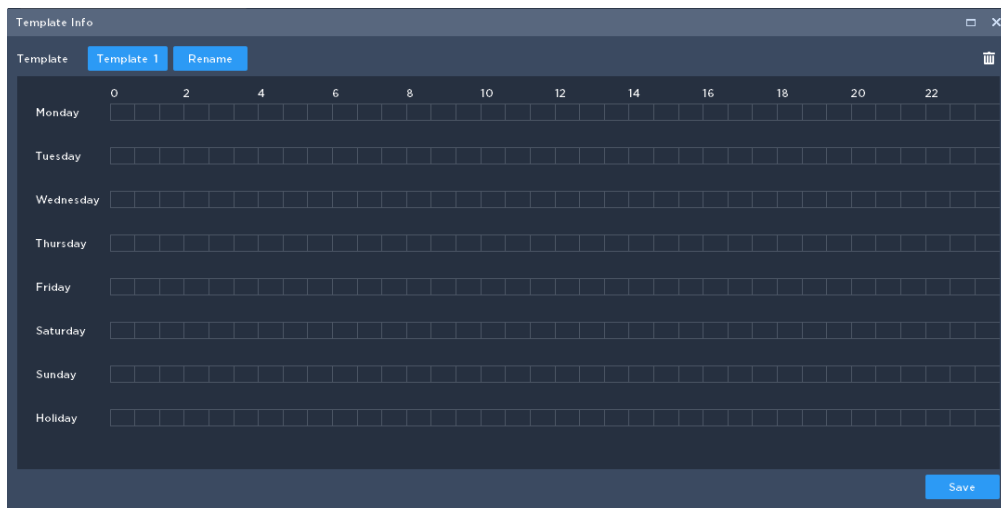
Customize a Recording Schedule

Create a custom recording schedule with a blank template.

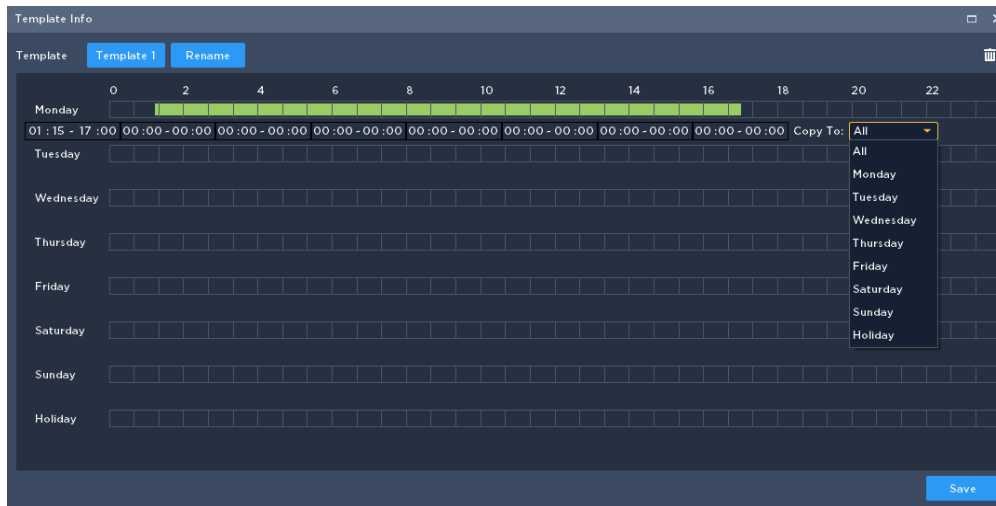
1. Select the camera (video channel) you want to configure a recording template for.
2. Click **Edit Template**.



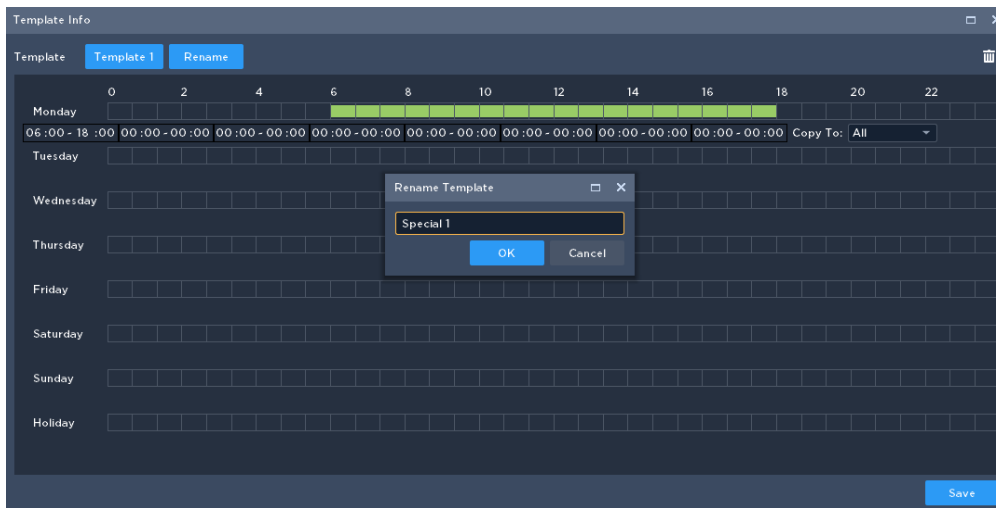
3. Click the **All Day** button, and then select the template you want to configure. In this example, Template 1 was selected. By default, Templates 1 .. 8 are blank.



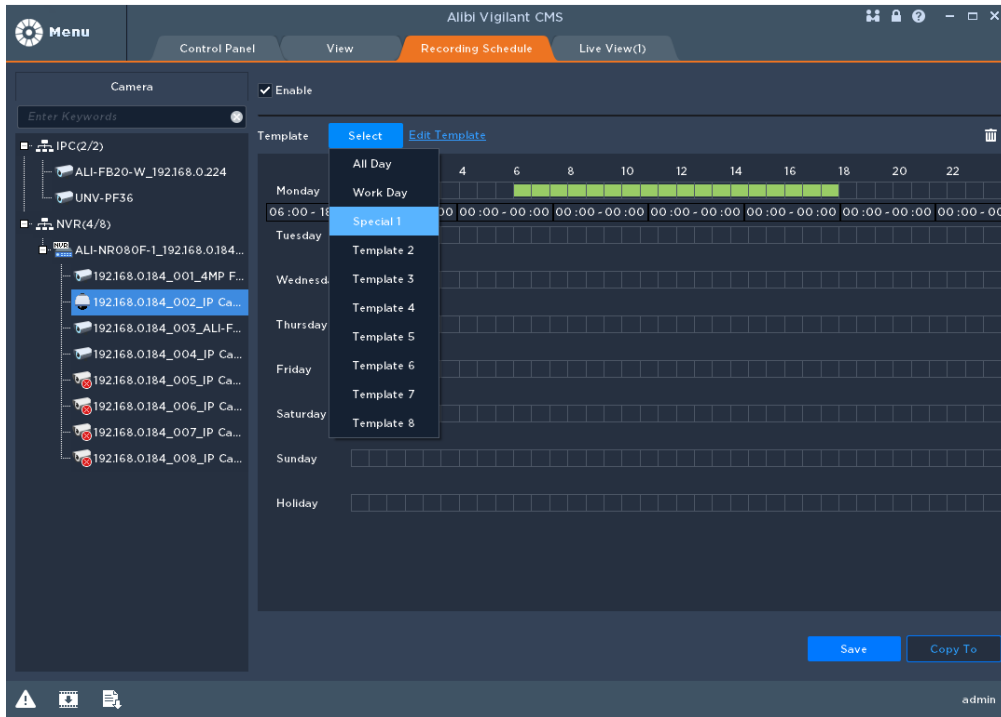
4. Configure the recording schedule for one day by:
 - a. Dragging the mouse across the time periods when you want to enable recording. When a time slot is enabled for recording, it is green.
 - b. Click or drag on green (enabled) areas to disable (blank fill) recording.
 - c. You can configure up to 8 time periods when recording is enabled for each day.
 - d. To copy the schedule you created to different days, click the **Copy to** icon at the end of the “periods” line, and then select the day(s) you want to copy the schedule to.



- e. To clear the template you configured, click the trashcan icon in the upper right corner.
5. To give the template a unique name, click the **Rename** button at the top of the schedule. In this example, we renamed the template **Special 1**. Click to save the name.





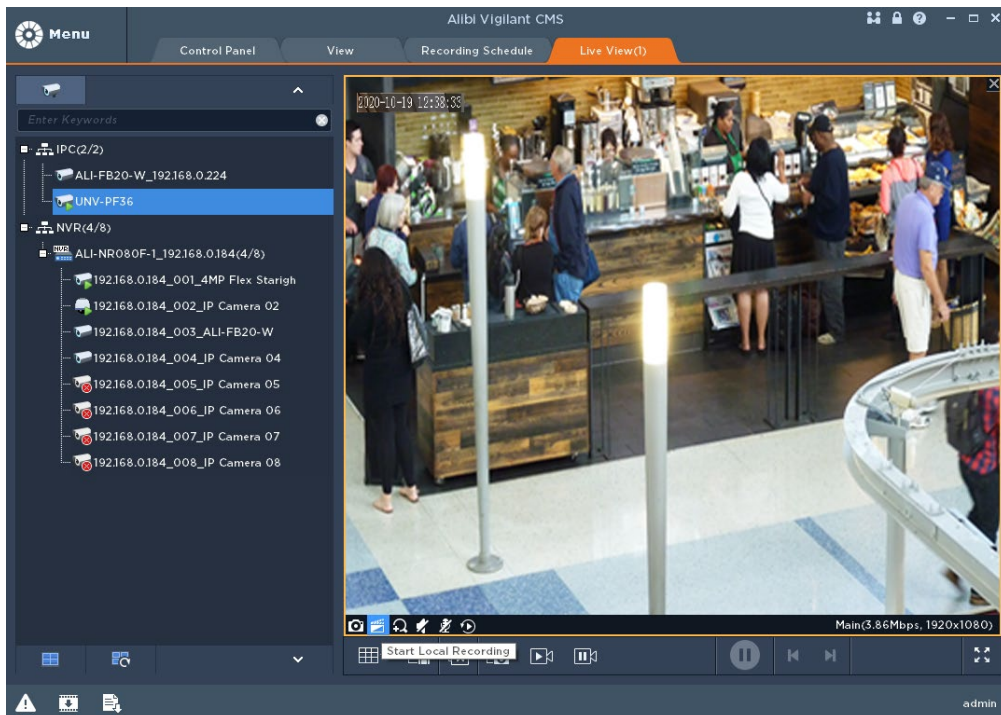
- 6. To return to the initial Recording Schedule menu, click the **X** icon in the window near the trashcan icon.
7. To assign the template to another video channel:
- a. Select the video channel (camera) in the left frame you want apply the template to.
 - b. Check the **Enable** box.
 - c. Open the **Template** list and select the template you want to apply.



d. Click **Save**.

Record Video Manually

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



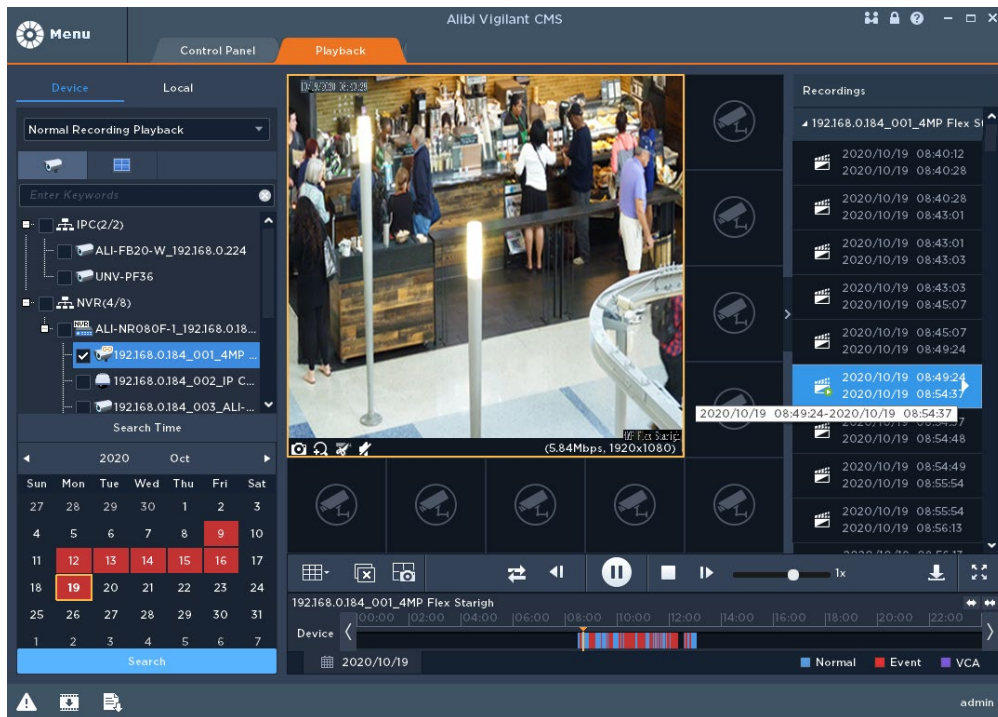
Playback

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

Play Device Recordings

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

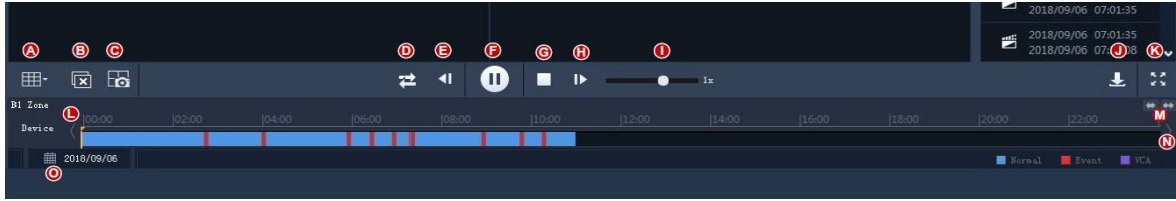
To open the Playback GUI, click the Playback button in the Control Panel.



Playback Control

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

Playback Toolbar



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

Playback Window Toolbar

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





Button	Description
A	Take a snapshot and save it to your PC. The image format and storage path is configurable in client configuration (see Client Configuration).

B	Digital zoom. When enabled, drag the mouse to draw an area on the image to zoom in on, and use the scroll wheel to zoom in or out.
C	Clip the video to download.
D	Mute or adjust speaker sound volume on your PC.
E	Current bit rate and resolution.

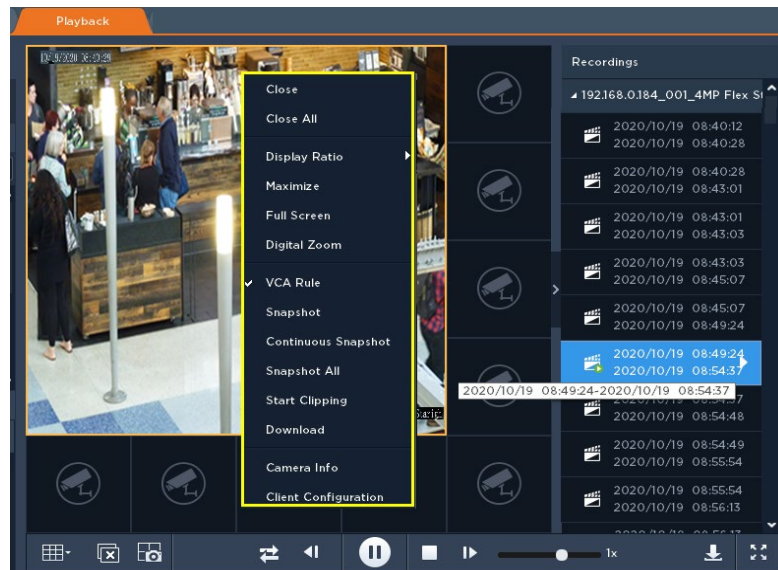


NOTE!

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

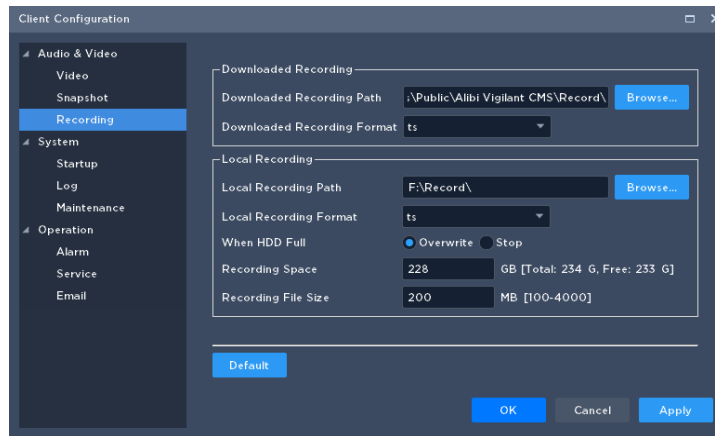
Right-click Menu

A menu (bordered in yellow below) appears when you right-click on a video playback window. Many functions on the menu are same to the toolbar buttons.

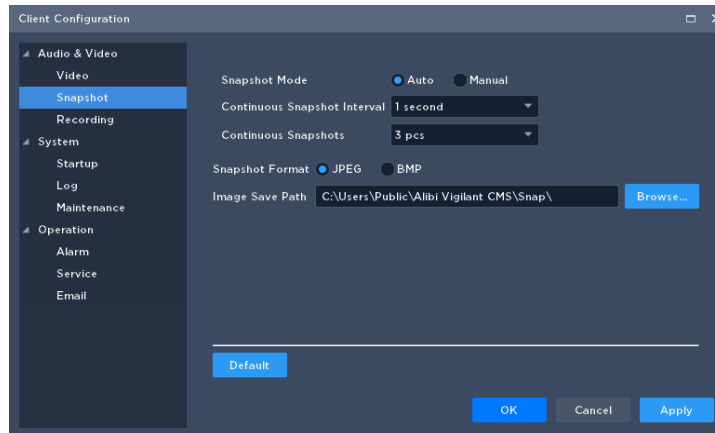


Edit Client Configuration for recording and snapshots

1. Click the **Menu** button in the upper left corner of the window, and then open the Client Configuration menu.
2. Go to **Audio & Video > Recording**.



3. Set the parameters as needed for **Downloaded Recordings** and **Local Recordings**, and then click **Apply** and **OK**. **NOTE:** In the Downloaded Recording Format drop down list, select either **MP4** or **ts** (proprietary).
4. Go to **Audio & Video > Snapshot**.

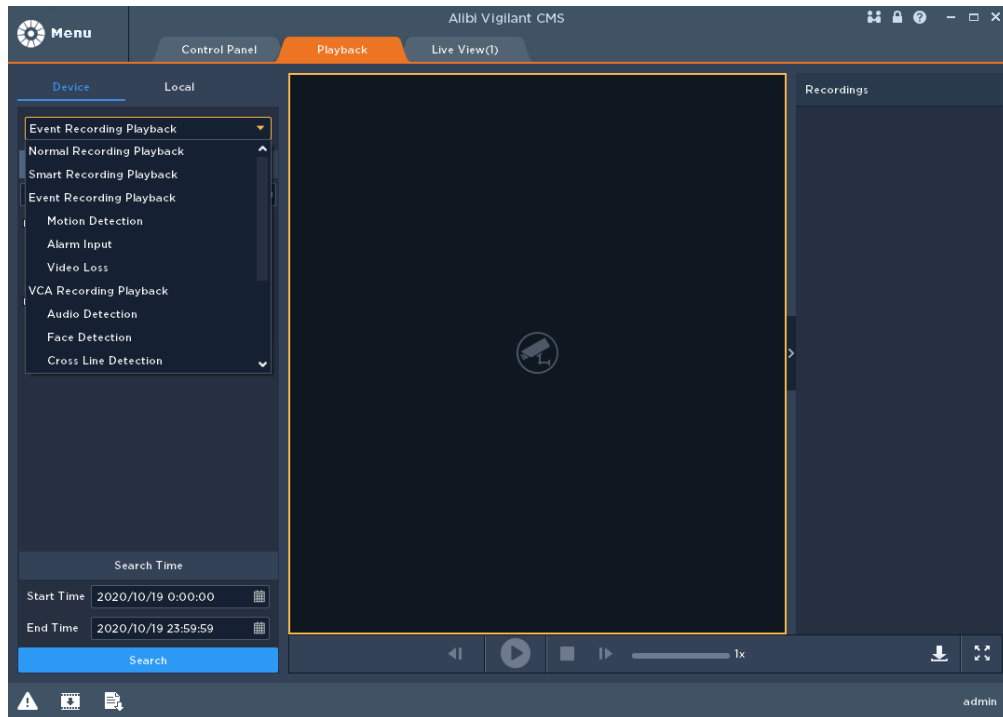


5. Set the parameters in the **Snapshot** menu as needed, and then click **Apply** and **OK**.

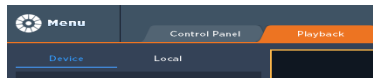
Search and playback Device video clips

To search for recorded video:

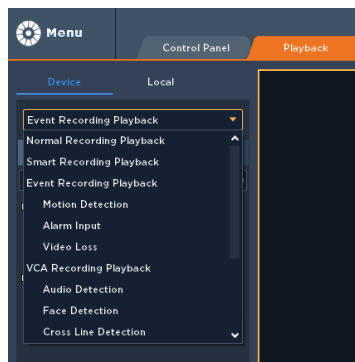
1. Click the **Playback** in the Control Panel.



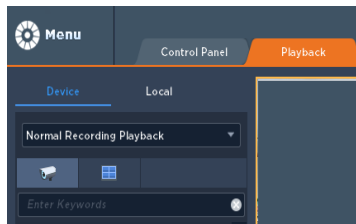
2. In upper left corner of the screen above, click either **Device**, if the recording you want to play is on an SD card in the device or in an NVR, or **Local**, if the recording is on the computer. In this example, we'll play from a Device.



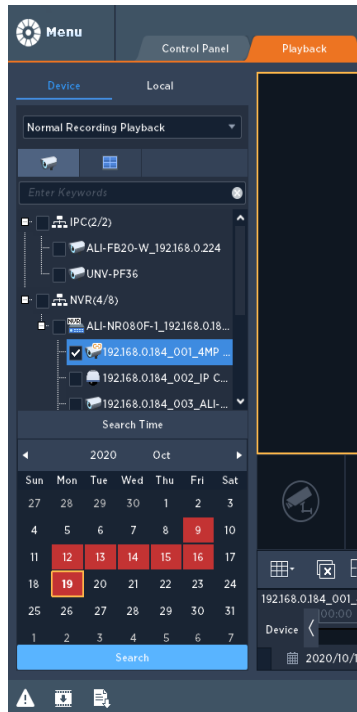
3. In the drop down menu shown below, select the type of recording you want to search for and play. You can search for a Normal recording (includes all continuous, event and VCA triggered recordings) or search for a recording triggered by a specific Event or VCA event. In this example, we selected **Normal Recording Playback**.



4. In the options shown below, select either the camera icon (default views) or the grid to use Custom View created earlier.

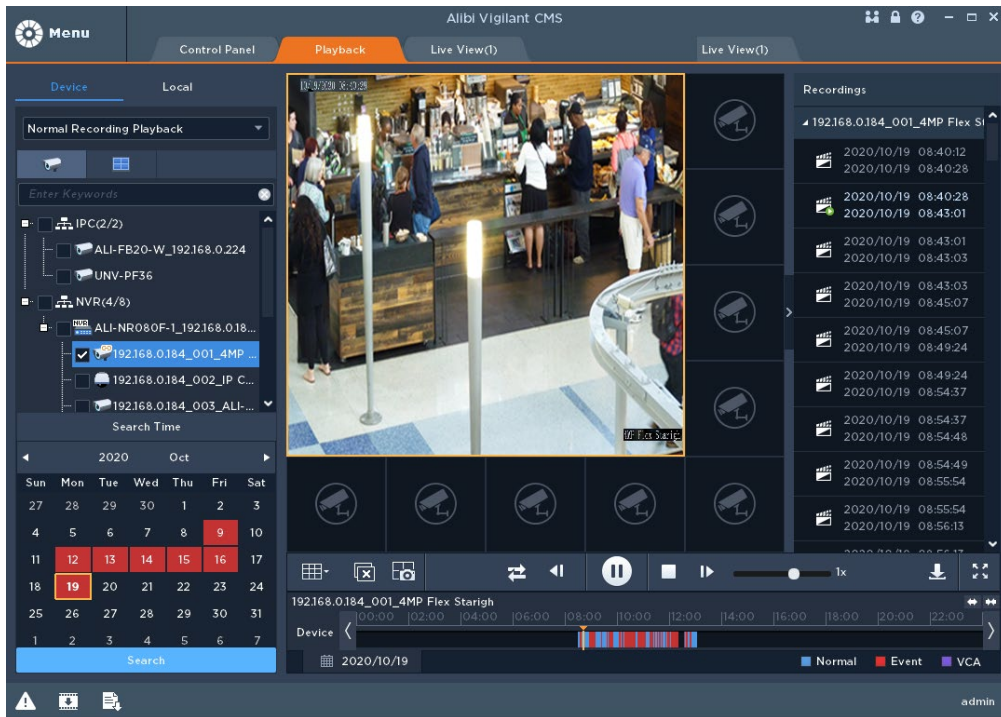


5. If you selected Custom Views, you can enter a Keyword to locate a custom view and then select it.
6. In the video channel list, check the select box(es) for the camera(s) with recordings you want to play. You can select up to 16 video channels, depending on the capability of the recorder(s). Those channels can be played either synchronously or asynchronously by clicking the arrows icon below the video frame.

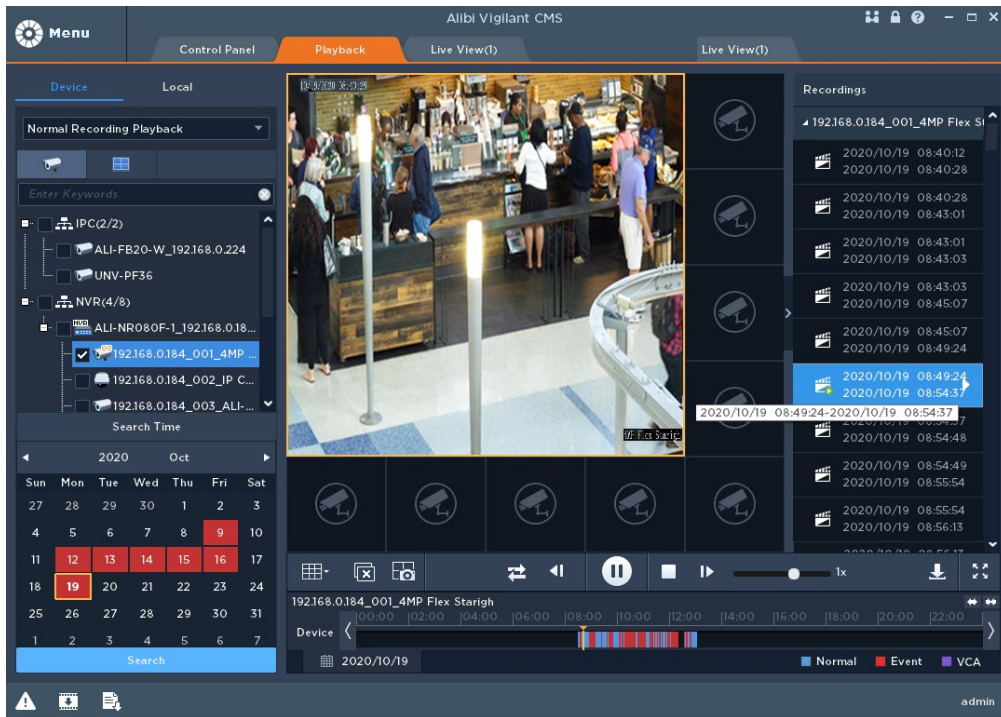


In the screen above, selecting Normal Recording Playback earlier and other options opened a calendar window in the lower left corner highlights days when video clips were found. Red highlights indicate alarm triggered recordings, blue highlights indicate normal recordings.

7. Click on the day when a recording of interest was recorded.
8. Click the **Search** button. For a **Normal** search, a timeline at the bottom of the window will summarize graphically when recordings were made, and use colors to identify whether the recording is a continuous recording, triggered by a regular **Event** or triggered by a **VCA** event. Also, a marker on the timeline shows when the recording being played occurred. Click on the marker to show the recording timestamp, or click on any recording to continue playing at that point.



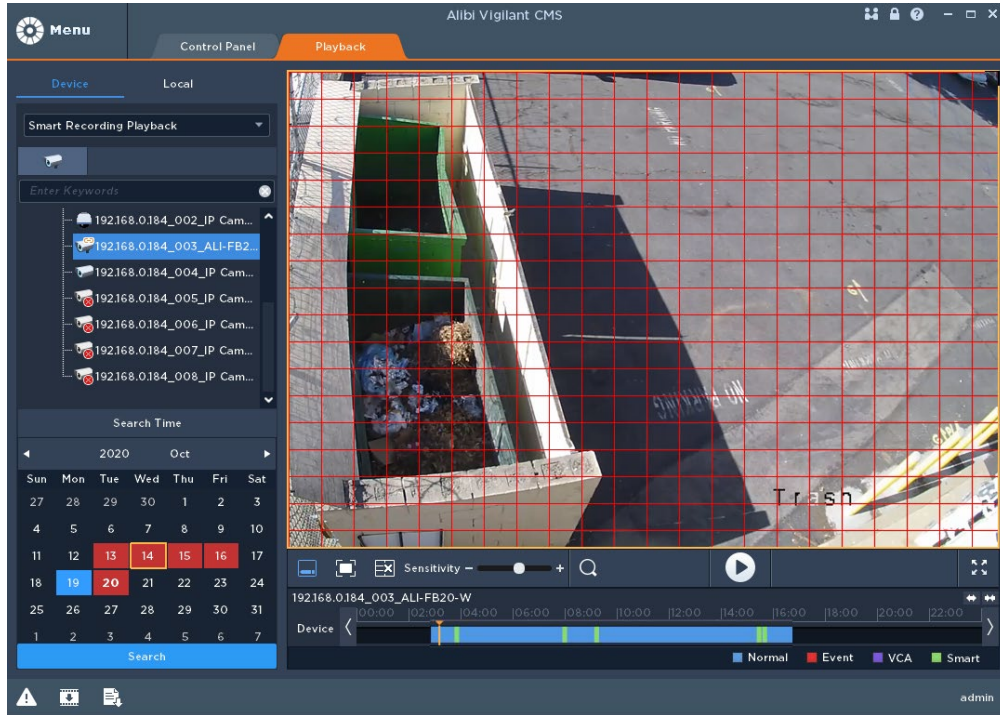
9. Adjust the slider on the play controls frame to speed up (to right up to 16x) or slow down (to left down to -16x) from normal playback speed.
10. A list of recordings will appear in the right frame. To play an individual recording, click an entry to highlight it, and then click the **Play** icon that appears on the right side of the entry.



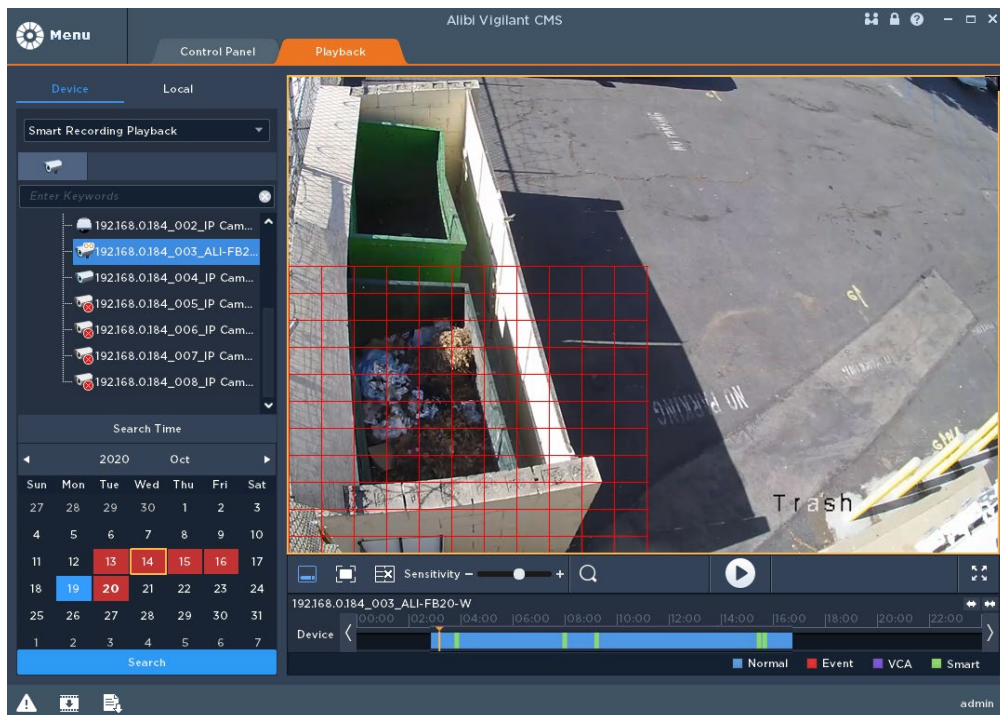
Smart Search

The NVR records motion in different areas of the image when recording video. Smart search allows you to locate videos that include motion in the image. **Note:** This feature is available only for certain NVR models.

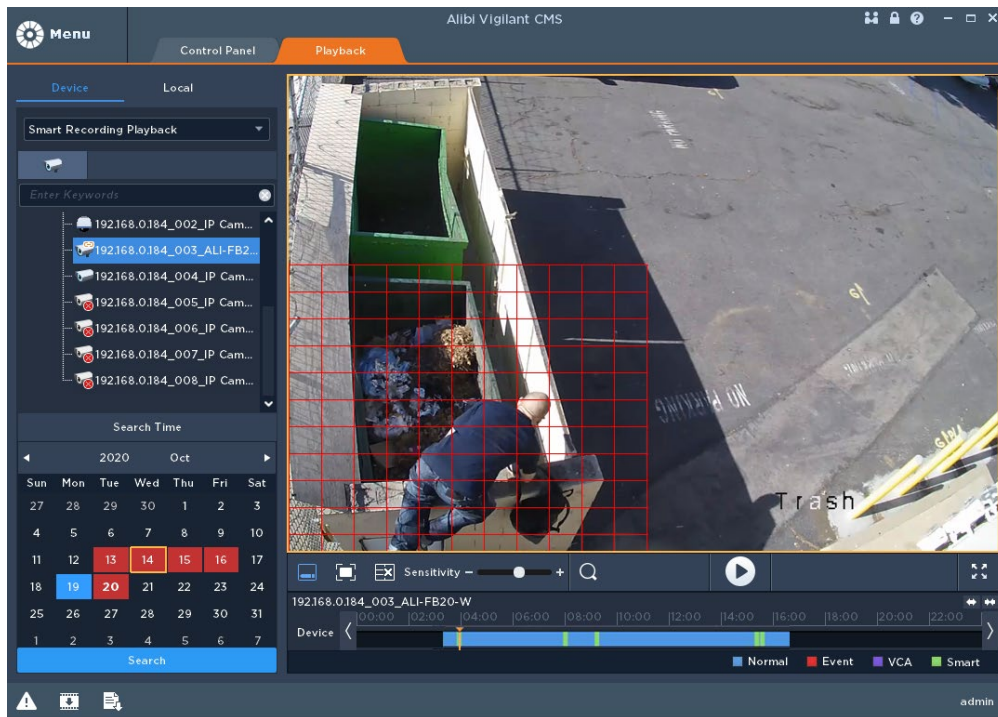
1. On the **Device** tab, select **Smart Recording Playback** from the search type drop-down list (see below).



2. Select a camera, and then select a date on the calendar. Smart search will search the area of the video image covered by the grid. By default, the entire image is searched.
3. You can click the Draw Area icon (left end of play controls bar) and then drag or click to edit the search area covered by red grid. Click the icon to the right of Draw Area to clear the screen, and then drag the mouse diagonally across the screen in the area you want to search. In the example below, the area in the lower left corner was selected.





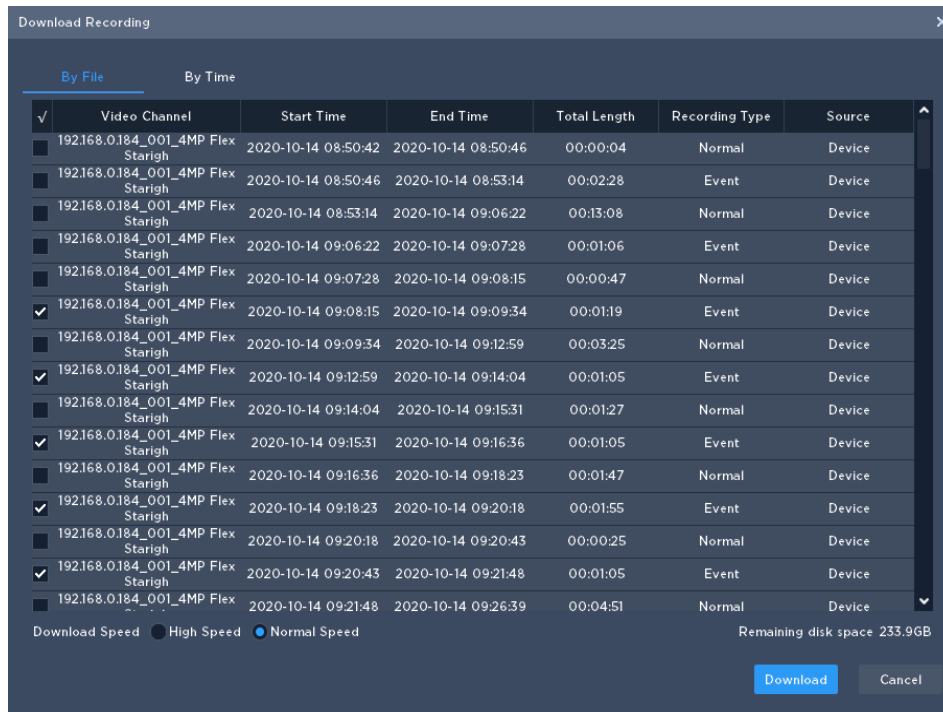
4. Search results appear on the timeline. The green (Smart) marks represent video with changed images was recorded. Blue marks indicates irrelevant video and at high speed.
5. Click the **Finish Drawing** icon (third from left), adjust search sensitivity as needed, click the **Search** button to search again, and then click Play.



In the example above, the blue area on the timeline is played quickly. The green area mark indicates where motion in the detection area was sensed, and is played at normal speed.

Download Recordings


1. To download video clip(s):
 - a. Determine the timestamp(s) of the recording(s) you want to download.
 - b. Click the **Download** icon () below the recording list or the the **Recording Download** icon () in the lower left corner of the playback menu.
 - c. In the **Download Recording** window, check the select box(es) for the recordings containing the timestamps you want to download.

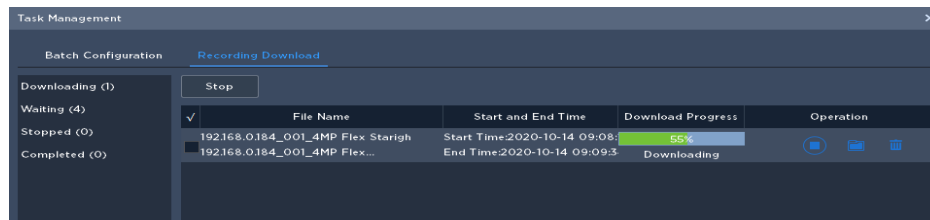


d. Click the **Download** button.

Manage downloads

To see the progress of the download, close the **Download Recordings** window, click then **Task**

Management icon () in the lower left corner of the Playback menu.



NOTE!

- Stopping a download task does not delete the video that's already downloaded to your PC.
- A video player (e.g., VLC) or the video player provided with your CMS is needed to play the downloaded recordings.

7 Video Wall

Play video on a physical video wall.

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


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

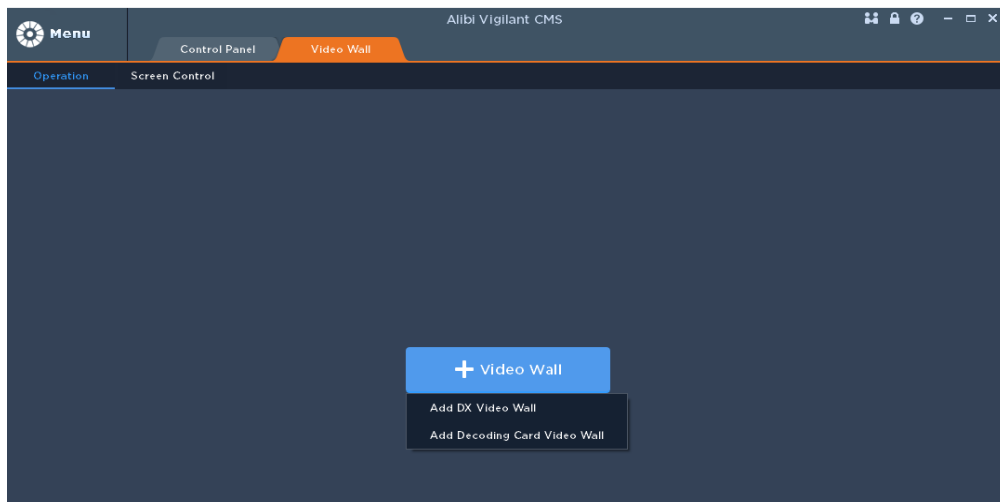



NOTE!

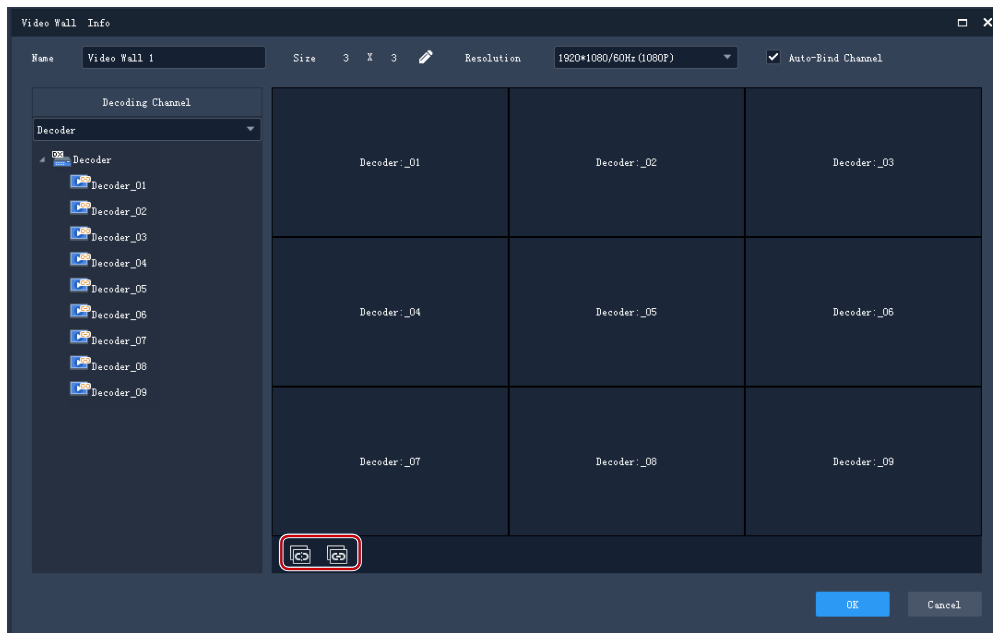
- Add a decoding device or an NVR as admin first under **Device Management > Device**.
- The number of video walls supported, operations allowed, and functions/features available may vary with decoding device and version.

Add a Video Wall

Click **Video Wall** on the control panel. For the first time use, click  and then choose a video wall type, either **DX Video Wall** or **Decoding Card Video Wall**.




If a video wall already exists, click  right to the video wall name to add a video wall.



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




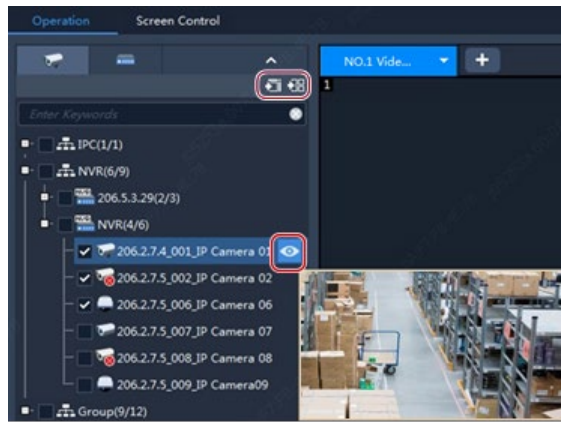
NOTE!

- The video wall size is must be the same as the physical video wall.
 - Set small pixel pitch LED if necessary. The special LED width is the width of the last column; the special LED height is the height of the last row in pixels.
-
5. To edit or delete a video wall, click  next to the video wall name.

Video Wall Operations

Play Video on Video Wall

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



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



NOTE!

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

2. To start live video from multiple cameras or group(s), select the cameras or group(s), click a window, and then click **Play on Screen** or **Play on Wall**.
 - **Play on Screen:** Play on one window.
 - **Play on Wall:** Play on multiple windows.
2. To play a signal source (such as from a PC), click the **Signal Source** tab, and then drag the signal source to the intended window.
3. To choose a window to play alarm-triggered live video, right-click the window and click **Set Alarming Window**. Make sure alarm-triggered live video is configured (see [Configure Alarm-Triggered Action](#) for details). To cancel the setting, right-click on the window and then click **Cancel Alarming Window**.

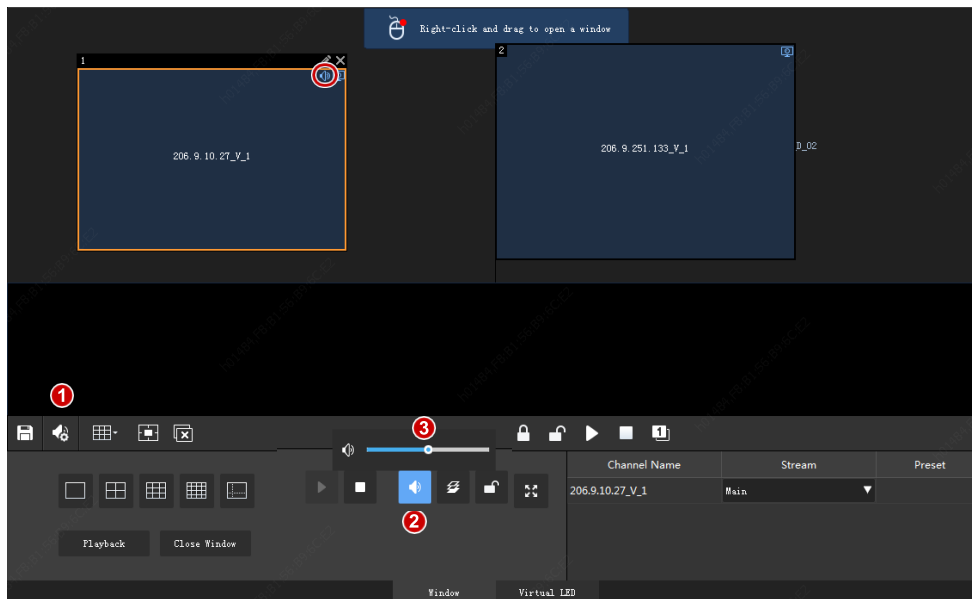




NOTE!

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

Output Audio

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

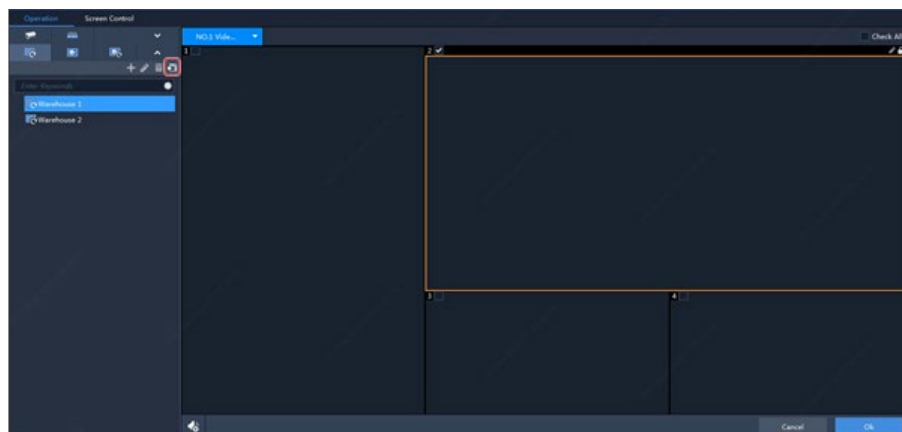


1. Click  (1), and then select the audio channel.
2. Click a window/screen, and then click  (2); or right-click and then select **Audio**. The icon appearing in the upper right corner indicates that audio from the IPC channel is available in the window/screen.
3. Adjust output volume as needed.



Play Sequence Resource

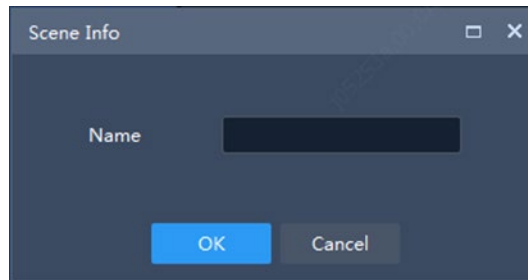
Play sequence resources on video wall. Three sequence modes are available: sequence video on a single window, sequence video on multiple windows, and sequence scenes.

- **Sequence on Single Window:** On the Sequence Resource tab, drag a sequence resource into a window.
- **Sequence on Multiple Windows:** On the Sequence Resource tab, select the sequence resource, click Play on Screen, and then select the windows.

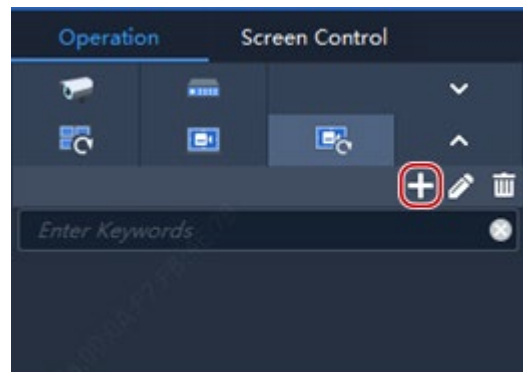


- **Sequence Scenes:** Scene refers to video wall settings, including screen layout, window, and video service (live view or sequence). The scene allows you to recall the video wall settings with one click. Sequence scenes is used to display different scenes according to a set time.

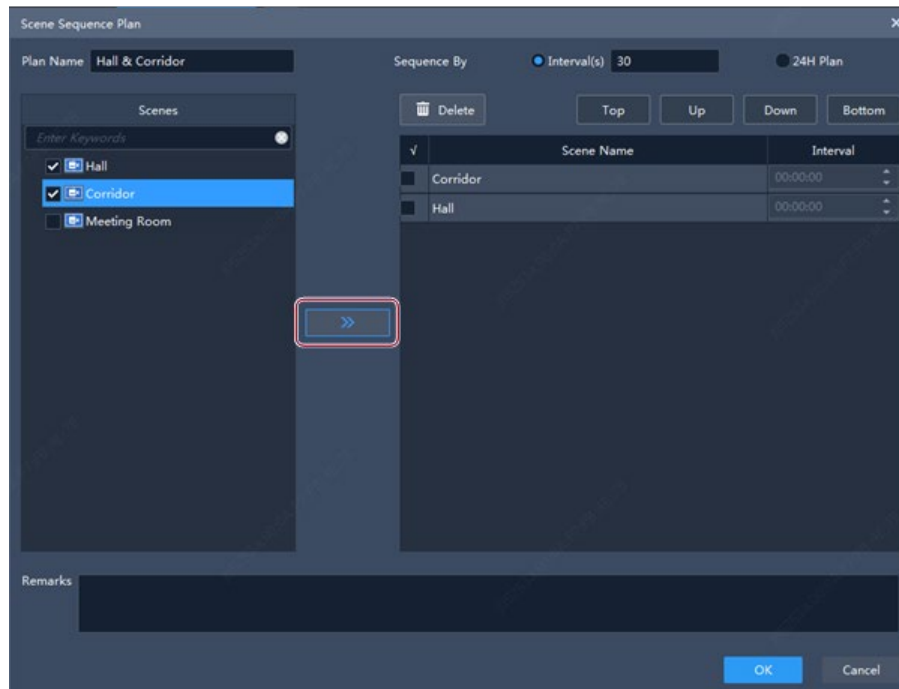
1. Click  or click  on the **Scene** tab to create scenes.



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

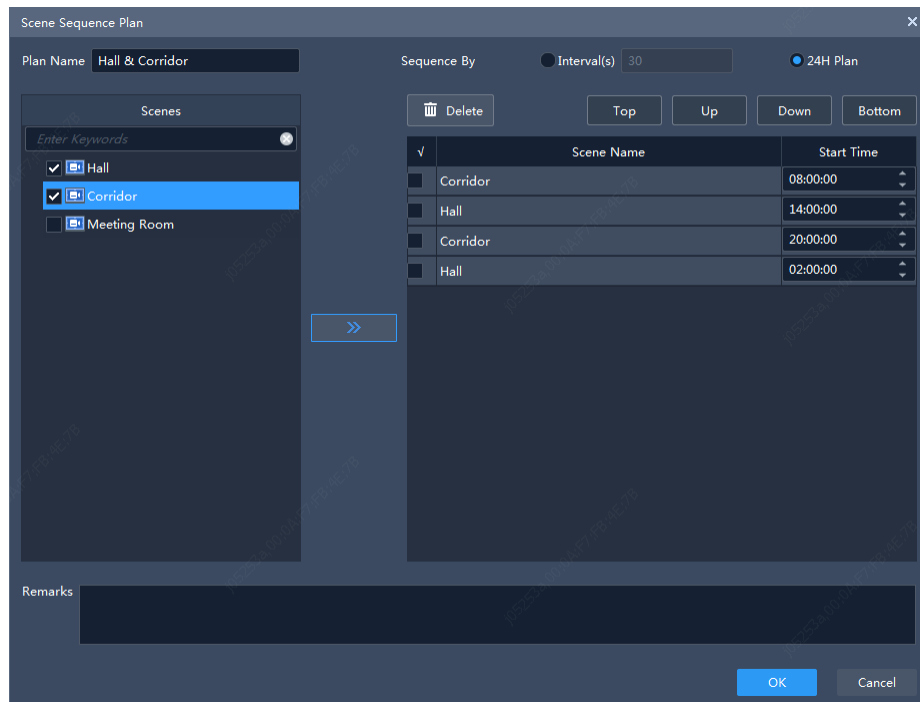


3. Select the scenes and import them to the plan.

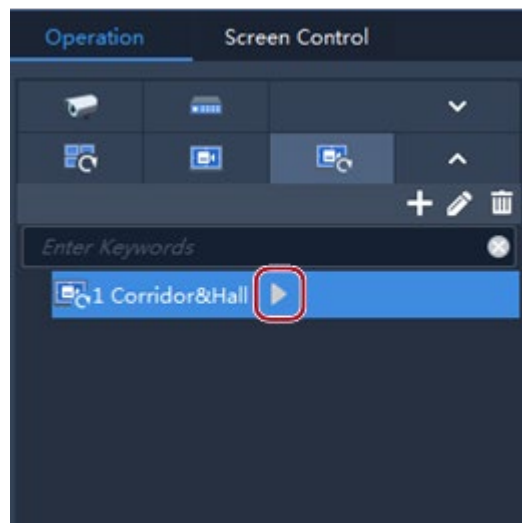


4. Set the sequence mode. You can sequence by time interval or configure a 24-hour sequence schedule.

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



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



Other Video Wall Operations

For more video wall operations, see the tables below. Buttons on the toolbar are used in all windows in the video wall.

A B**C D E**




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



Window control area functions are applied to the selected window.



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

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

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

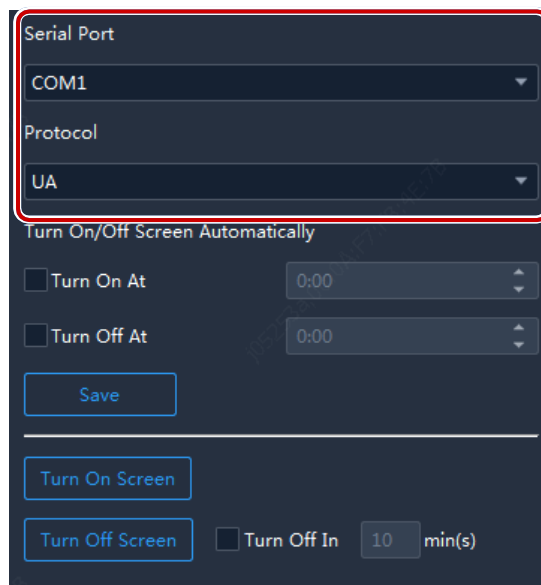
- : Click this button to expand the selected window to full screen. You can also right-click in the window and then choose this feature from the shortcut menu. Click  to restore.
- View window info: Right-click a window or screen and choose **Window Info** to display the window ID, split screen ID, stream status, etc.
- For certain DX video walls, double-click on a window to magnify it, and double-click it again to restore to previous size.

Screen Control

On the **Screen Control** tab, you can turn on/off screens including small pixel pitch LED screens. Before you use this feature, make sure the screen, power distribution box (for LED screen) and server are properly connected.

Configure Serial Port and Protocol

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



Serial Port

COM1

Protocol

UA

Turn On/Off Screen Automatically

Turn On At 0:00

Turn Off At 0:00

Save

Turn On Screen

Turn Off Screen Turn Off In 10 min(s)

Turn a screen on or off automatically at a set time

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

Turn a screen on or off manually

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

Turn off a screen with a delay

- Select the check box for **Turn Off In**, and then enter the time in the text box.

2. Click **Turn Off Screen**.
3. A message shown below appears. The screen will turn off automatically when the timer expires.



8 Behavior Search

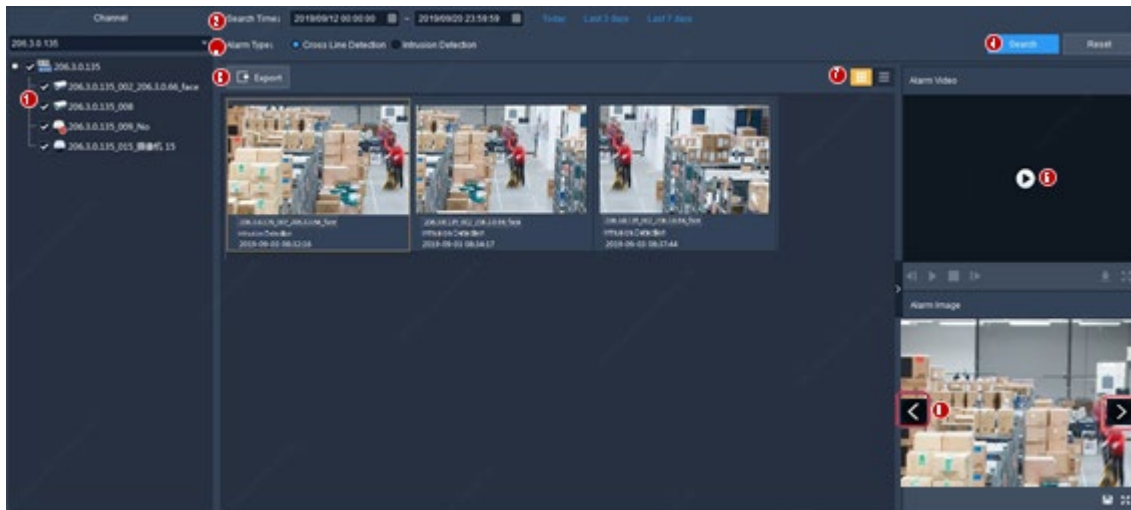
Search VCA images and recordings from an NVR.



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.
 - 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). You can 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.

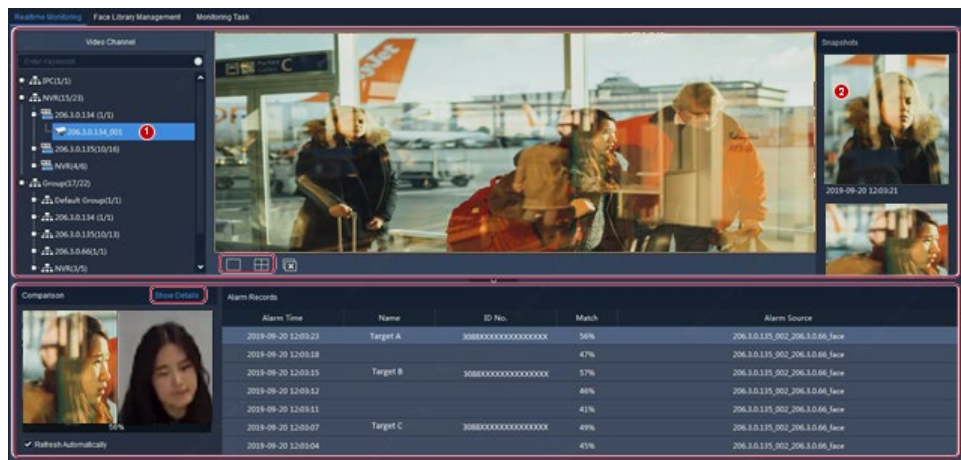
9 Face Recognition

With this feature you can view live video and realtime face recognition alarms, and manage device face libraries and perform monitoring tasks.

Realtime Monitoring

Realtime Monitoring allows you to view live images and snapshots of faces captured by specific cameras. You can view alarm records, captured faces and faces saved in the library for monitoring.

1. Double click on a camera to start live video and view face snapshots. You can monitor up to four cameras at one time.



2. Click on a snapshot to see the original snapshot containing a face.
3. You can view realtime face recognition alarms. Click on a record to view the corresponding face comparison results. Click **Show Details** to view detailed information. Personal information is displayed when the match between the captured face and the face in the library reaches the set alarm threshold. See [Monitoring Task](#) for details.



NOTE!

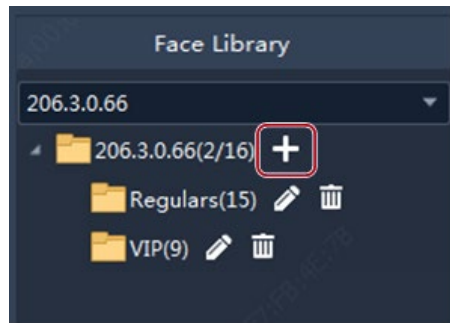
A device will report alarms only when a corresponding monitoring task has been configured.

Face Library Management

Manage faces in different libraries to meet different monitoring needs. The libraries are saved on the device. To use this feature, first create a face library, and then add face data to it.

Create Face Library

Select the device you want to manage, then click **+** to create a new face library. You can edit the library name or delete a library using the icons shown below.

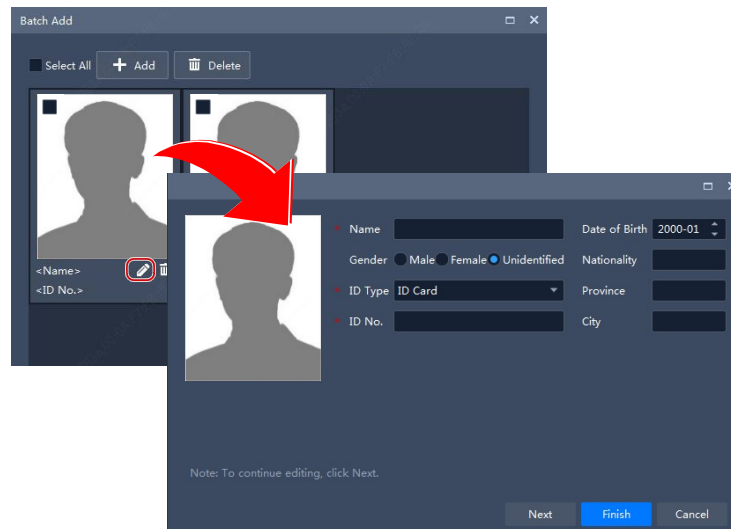


Add Face Data

Choose one of the following ways to add face data to a face library.

Option 1: Use Batch Add

1. Click **Batch Add**, then select the target face library you want to use. You can select multiple libraries created for different devices.
2. Click **Add**, then select face images you want to add. The images must be a JPG file with a size between 10KB and 500KB.
3. To enter personal information about the image, click the edit icon.



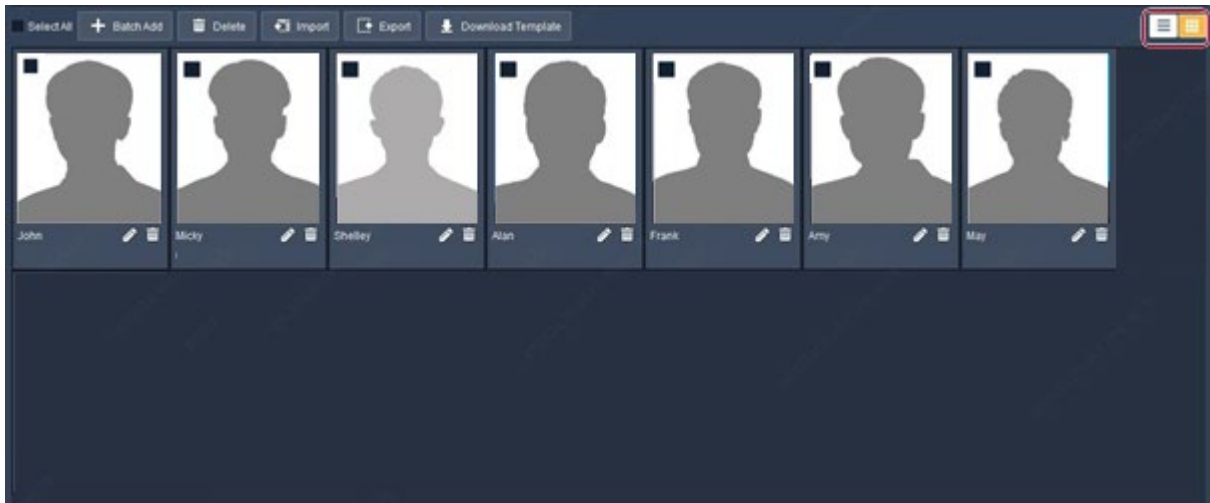
4. Click **Next** to add the image and continue to the next image, or click **Finish**.
5. Click **OK** when you complete the information for all the faces.

Option 2: Import a file containing face data

You can import a file that contains face data information. The file and its content must conform to the format of a downloadable template, and the size of each photo must be between 10KB and 500KB.

1. Click **Download Template** and then enter the face data into the template file.

2. Click **Import** and select the file you have edited. The imported data appear in the list. You can click the button in the list's upper right corner to switch to a different display mode.

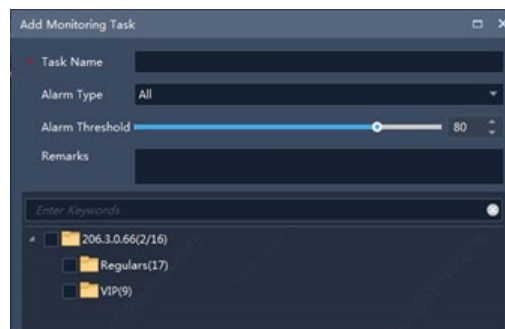


3. Edit or delete face data as needed, and then click **Export** to save the data in the current library to a CSV file.

Monitoring Task

Use the face libraries that were created for monitoring. The device compares the faces captured with the faces used for monitoring and reports alarms.

1. Select a camera for monitoring on the left, and click **Add** to create a monitoring task.
2. Enter the task name, select the alarm type, set the alarm threshold, and select the face library to monitor.



- **Match Alarm:** If the similarity (or **Match** in **Realtime Monitoring** page) between a face captured and a face in the monitored library reaches the alarm threshold, the device reports a match alarm.
- **Not Match Alarm:** If the similarity between a face captured and a face in the monitored library fails to reach the alarm threshold, the device reports a not match alarm.
- **All:** To monitor all the faces that the device captures.



NOTE!

When a face recognition not match alarm occurs, personal information such as the name and ID number is not displayed on **Realtime Monitoring** page.

3. Click **OK**. The newly created task appears in the list. For an NVR channel, you can copy the monitoring task to other channels of the same NVR.



	Task Name	Alarm Threshold	Remarks	Face Library	Monitoring Type	Operation
▼	Monitoring task	80		Regulars	Match Alarm	✎ 🗑
▼	Monitoring task 2	90		VIP	Match Alarm	✎ 🗑

10 People Counting

Count people entered and/or leaving during a certain period. To use people counting, the camera must support **People Counting** and **Cross Line Detection**, and be connected to an NVR for monitoring.

Click **People Counting** on the control panel. The People Counting page is displayed with two tabs:

- **Realtime Statistics:** Display counting results of selected cameras in real time, including the last seven counting results.
- **Report Statistics:** Display counting results in a bar chart or a line graph. You can export this data.

Realtime Statistics

1. Enable **People Counting** and **Cross Line Detection** in the camera(s) to view real-time counting results.
2. Click the **Realtime Statistics** tab.
3. Check the select box for the camera(s) to enable realtime statistics. You can double-click a camera to start watching live video from it.



Statistics include:

- **Realtime counting results** (left side): This is the total number if multiple cameras are selected. The three colors indicate different counting types, and they match the lines on the coordinates on the right side.
- **7 latest counting results** (right side): horizontal axis represents time, and the vertical axis represents the number of people (the minimum is 0; the maximum is 10 by default and it updates according to the actual counting result).

When realtime statistics is enabled, the first count is displayed in the lower left corner of horizontal axis **1**, and the counting result appears on vertical axis. In the example shown above, the total number is 993. The result updates periodically, and the latest result is displayed on the right **2**.





NOTE!

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

Report Statistics

1. Enable **People Counting** and **Cross Line Detection** in the camera(s) to view real-time counting results from selected cameras.

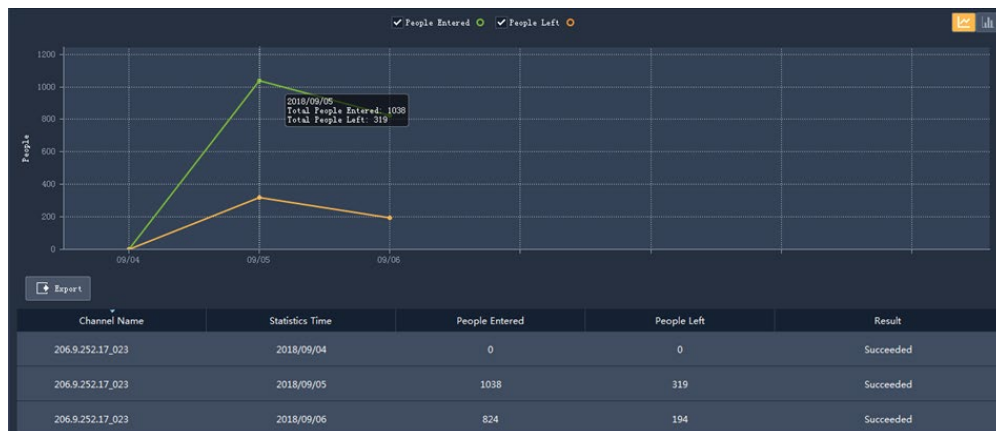
- Click the **Report Statistics** tab, and then check the select box(es) for the camera(s) you want to monitor.
- Open the **Counting Type** drop down list and select either **By Minute**, **By Hour**, **By Day** or **By Month**.
- Enter a starting and ending date by directly typing the dates into the date fields, or selecting the date using the calendar icon GUI.
- Click on one of these options: **Today** **Last 7 days** **Last 30 days** to count directly; or set conditions first:
- Count people that entered and/or left by selecting the check box(es) **People Entered** **People Left** .
- Display results in a line chart or a bar chart by clicking  .



NOTE!

You can set a maximum time period of 60 time units. The time unit (minute, hour, day or month) you select determines the actual time period. For example, the maximum period is 60 months if you choose to count by month, and 60 days if you choose to count by day.

- Click **Count** to generated the results.
- Place the cursor on the line/column to view the number at a time point.
- In the chart below, click on a column title to sort the data in ascending or descending order.



Click  to display in a bar chart.



11. Click **Export** to export statistics as a CSV file to your PC. You can use Microsoft Office Excel to open the file.


11 E-map

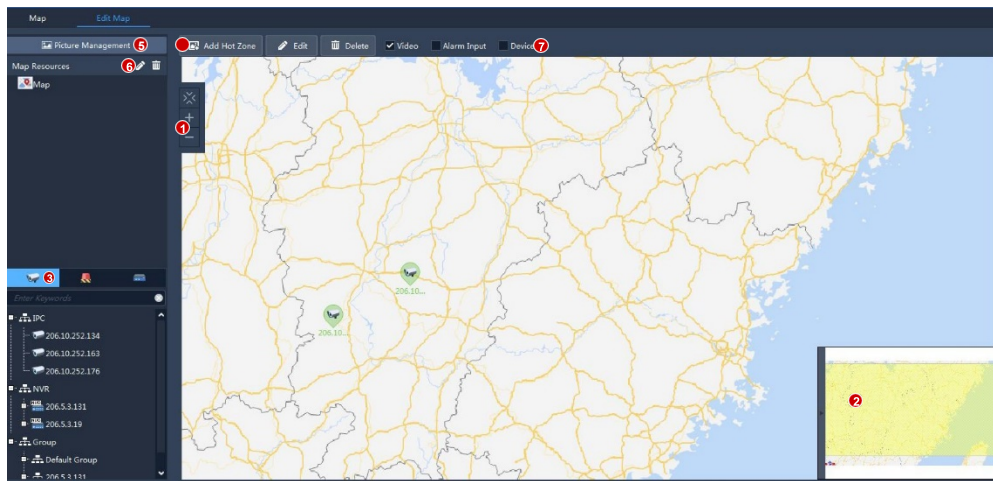
First complete configuration on the **Edit Map** tab, and then use the map on the **Map** tab.

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

Map Configuration

Add a Map




Click **E-map** on the control panel, and then click . Map images can be in PNG, BMP or JPEG format. The map added appears on the page and in the **Map Resources** list on the left.

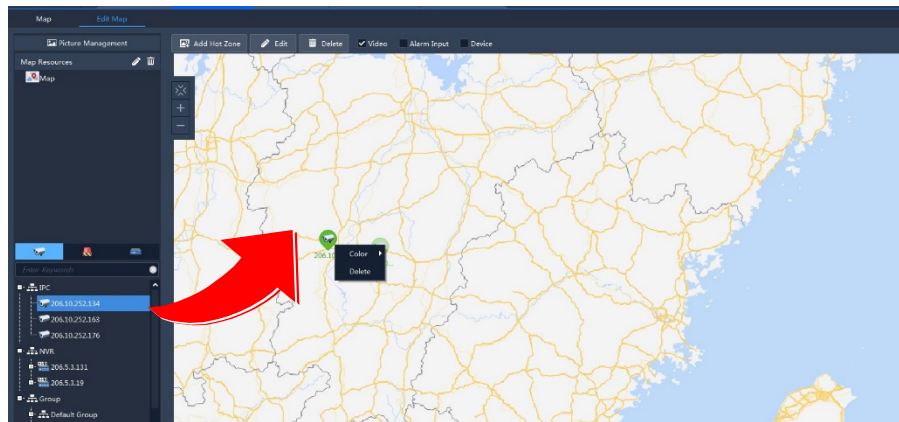


You can:

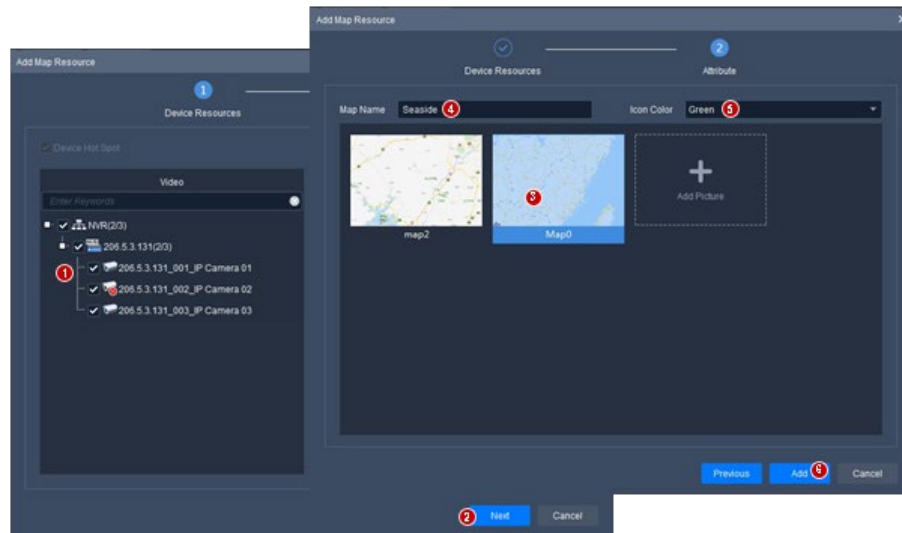
- **Change the map scale:** Use the scroll wheel or click the zoom buttons (1) to zoom in or out.
- **Eagle eye:** Drag on the yellow area (2) in the lower right corner to view details on the map (or drag map directly).
- **Add hot spots (3):** Drag devices, video channels, alarm input channels to intended positions on the map. See [Add a Hot Spot](#) for details.
- **Add hot zones (4):** Add a map on the map. Up to 7 layers of maps are allowed. See [Add a Hot Zone](#) for details.
- **Manage pictures (5):** Add or delete maps. Deleting a map will also delete all hot spots and hot zones on it.
- **Edit map resources (6):** Edit map name, and change the icon color of hot zones.
- **Filter map resources (7):** Choose to display video channels, alarm input channels or devices on the map.

Add a Hot Spot

Hot spots are used to quickly locate events when they occur. Hot spots include video channels , alarm inputs  and devices . Right-click a hot spot to change color or delete it from the map.

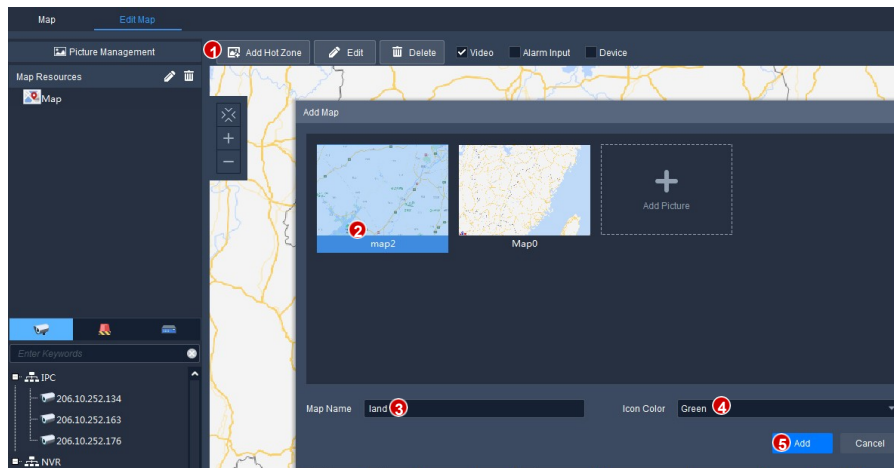


When adding a device hot spot, you can also add video channels and alarm input channels to it. The channels and the device will appear together on a hot zone on the map. You need to choose a map for the hot zone. Follow the steps shown below:



Add a Hot Zone

Follow the steps to add a hot zone.



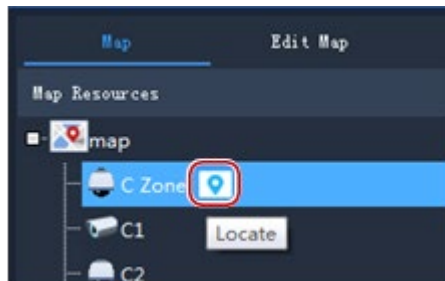
The hot zone is displayed as an icon on the map. It opens when you double-click on it. Right-click on a hot zone to change color or delete it from the map.

Map Operations

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

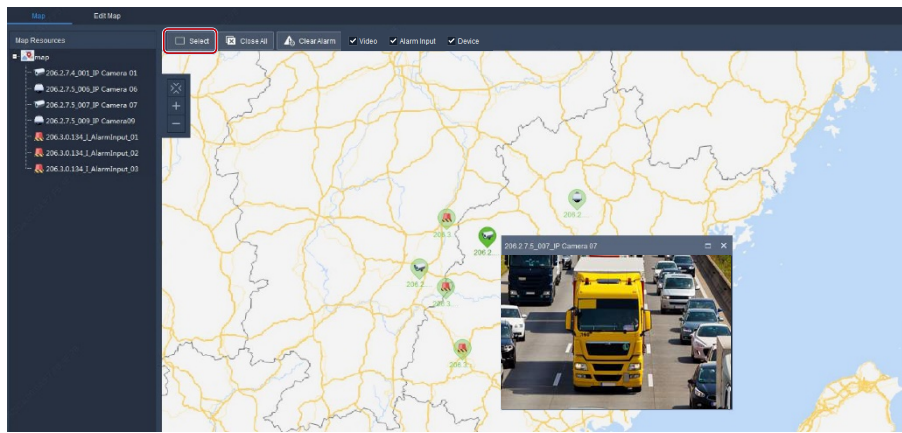
Locate a Hot Spot or Hot Zone on the Map

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

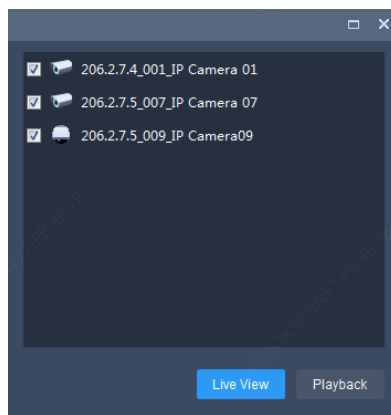


View Live Video from a Hot Spot

Double-click a video channel hot spot on the map to view live video from it. You can view up to 4 cameras. Use the window toolbar.

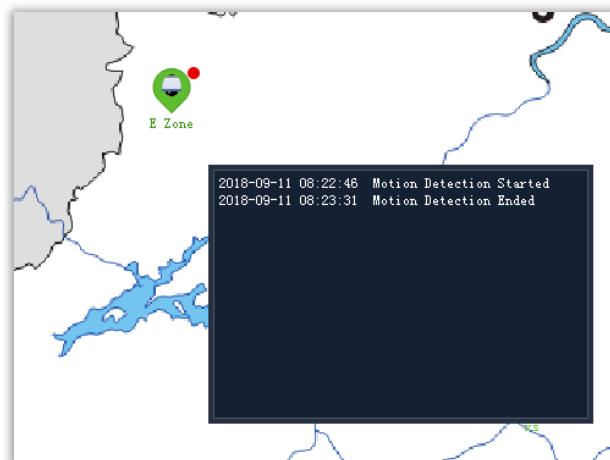


Click the **Select** button, and then drag on the map to select a hot spot. Play live or recorded video from the selected hot spots.



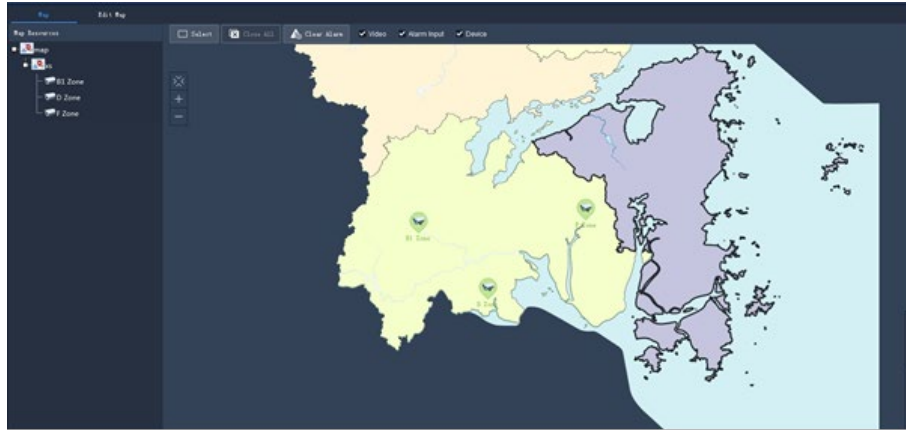
Handle Alarms

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



View Hot Zone

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




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

12 Audio

Audio services include audio (audio with its live video stream), two-way audio and broadcast. Two-way audio cannot work at the same time with audio or broadcast, which means, starting two-way audio will stop audio or broadcast, and vice versa. Broadcast is not available on Mac OS system.

Audio

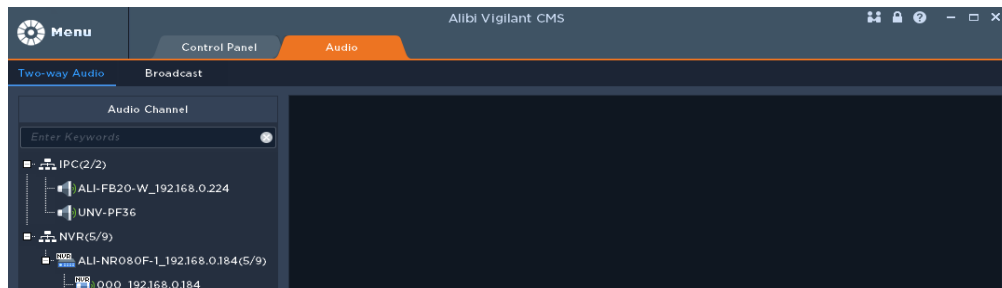
When live video is playing, click  in the window toolbar to turn on audio from the camera. The audio is one-way from the camera to your PC and it stops when live video is closed.

Enabling audio for another camera will disable audio from the current camera.

Two-Way Audio

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

To use **Two-way Audio**, open the **Audio** app in the CMS, and then click on the **Two-way Audio** tab at the top of the menu.

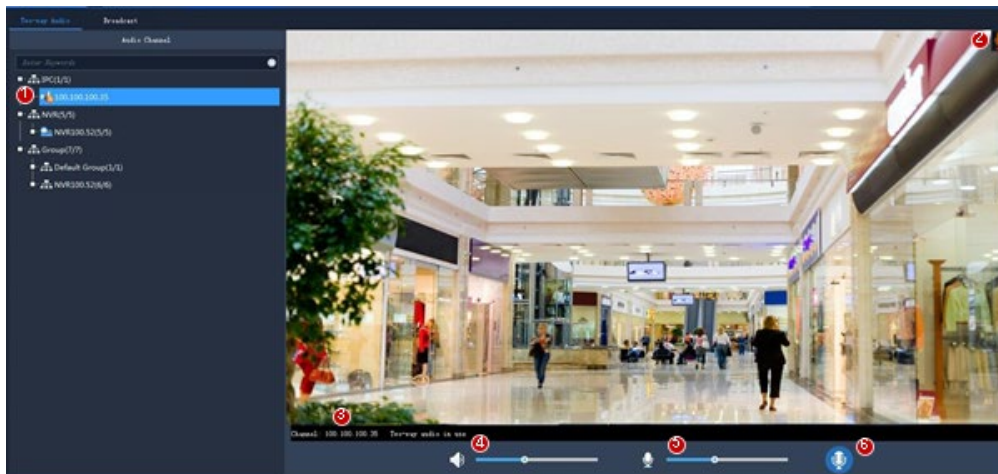


Two-way audio is available to one device at a time.


Two-Way Audio with a Camera

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

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



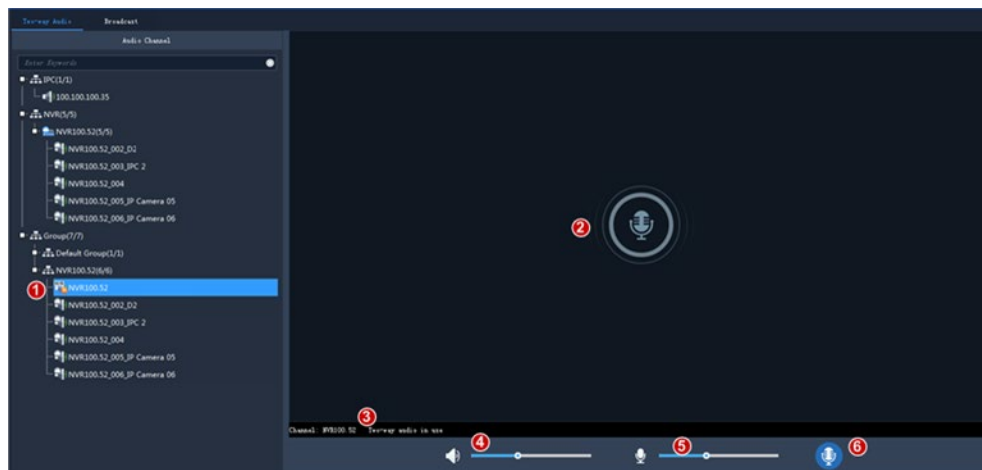
NOTE!

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

Two-Way Audio with an NVR

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

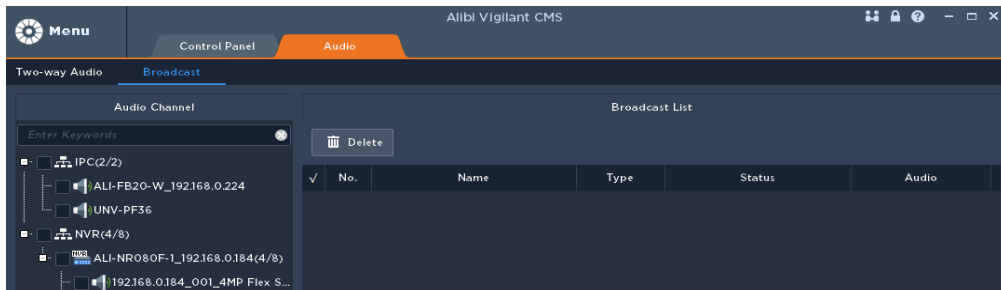
During two-way audio, you can adjust sound volume (4, 5) or stop two-way audio (6).



Broadcast

Broadcast is one way from your PC to cameras.

To use **Broadcast** audio, open the **Audio** app in the CMS, and then click on the **Broadcast** tab at the top of the menu.



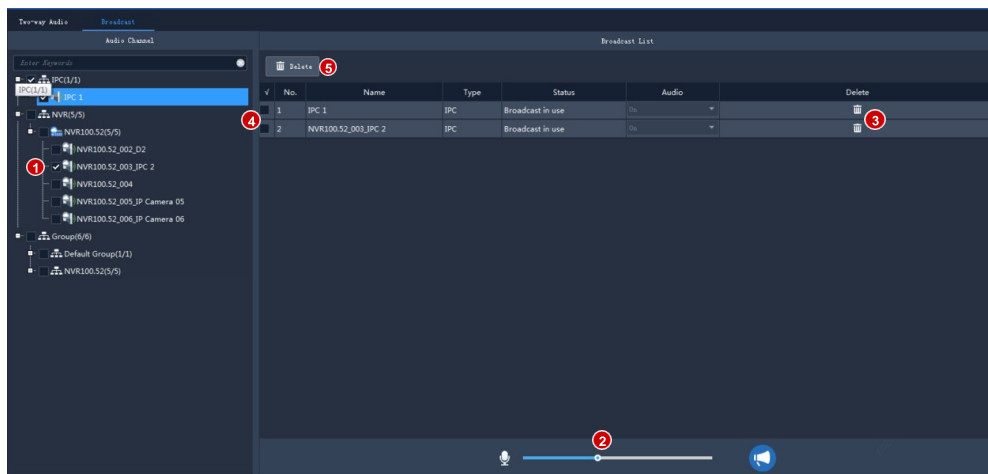
Select audio channels from the list on the left. You can:

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



Currently, broadcast to an NVR is not available.

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

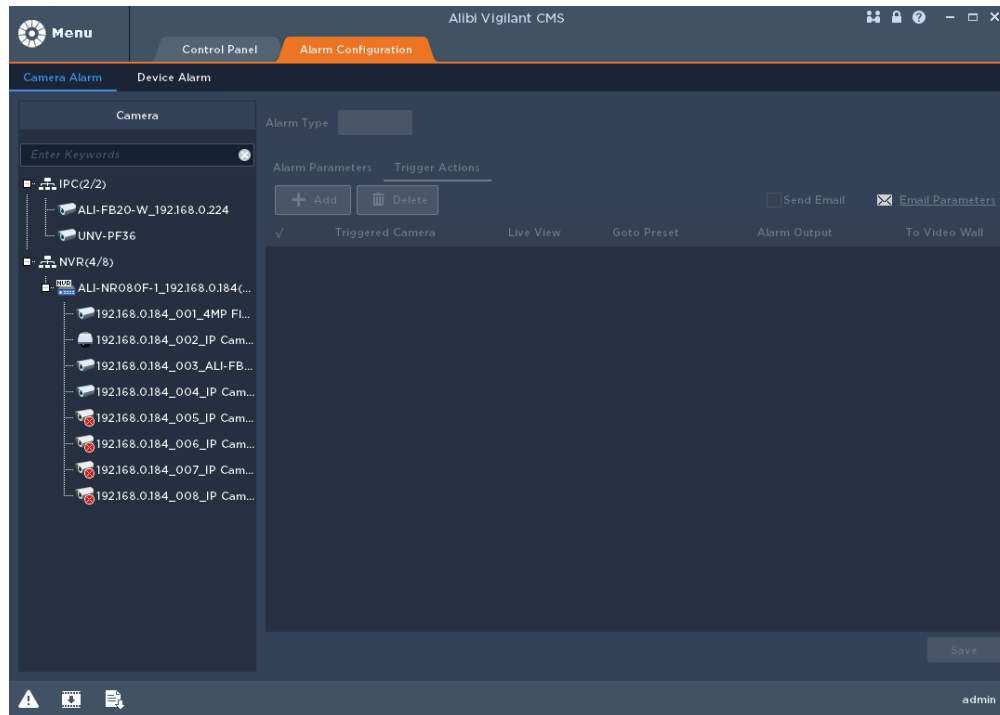


During broadcast, you can:

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

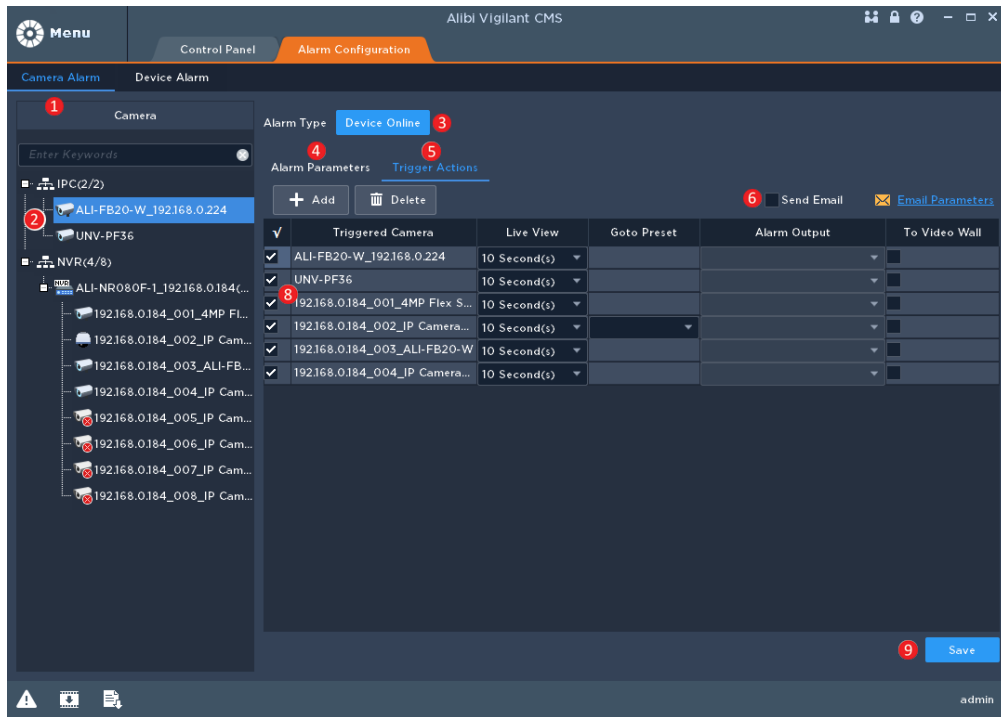
13 Alarm Configuration

Use the Alarm Configuration app to configure action(s) to trigger when an alarm of a certain type occurs at a specified source, view alarm records and handle alarms. Open the **Alarm Configuration** app by clicking the icon on the Control Panel.

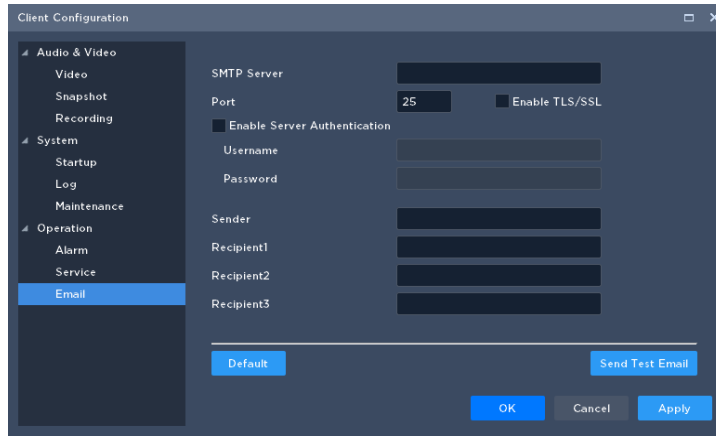


Configure Alarm-Triggered Action

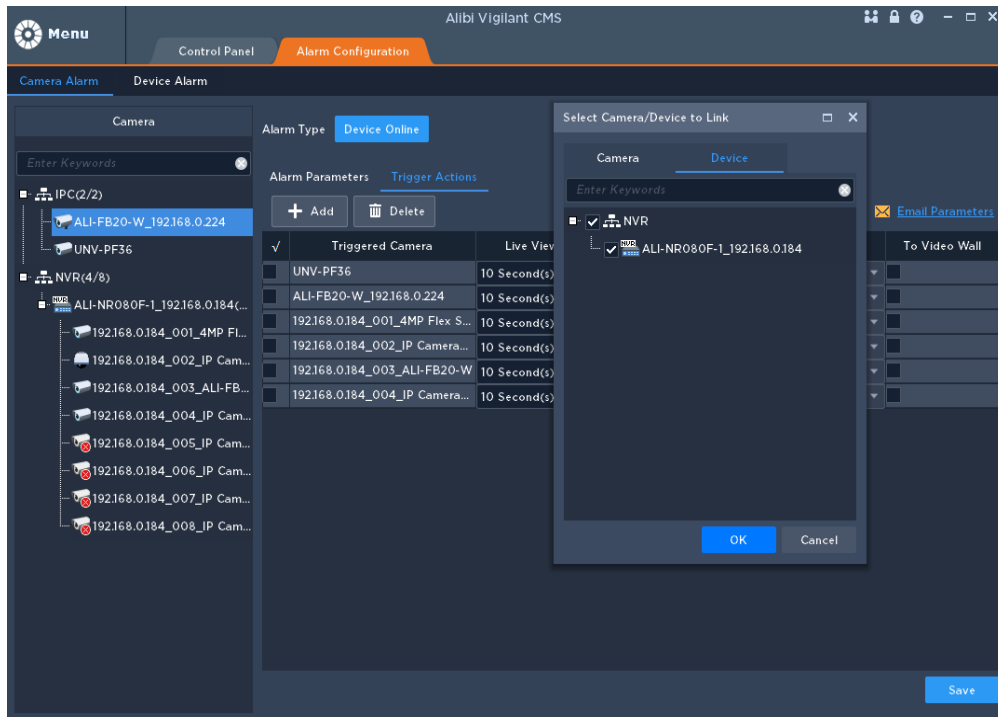
Alarm configuration includes the configuration of alarm source, alarm type, device to link, and action to trigger.



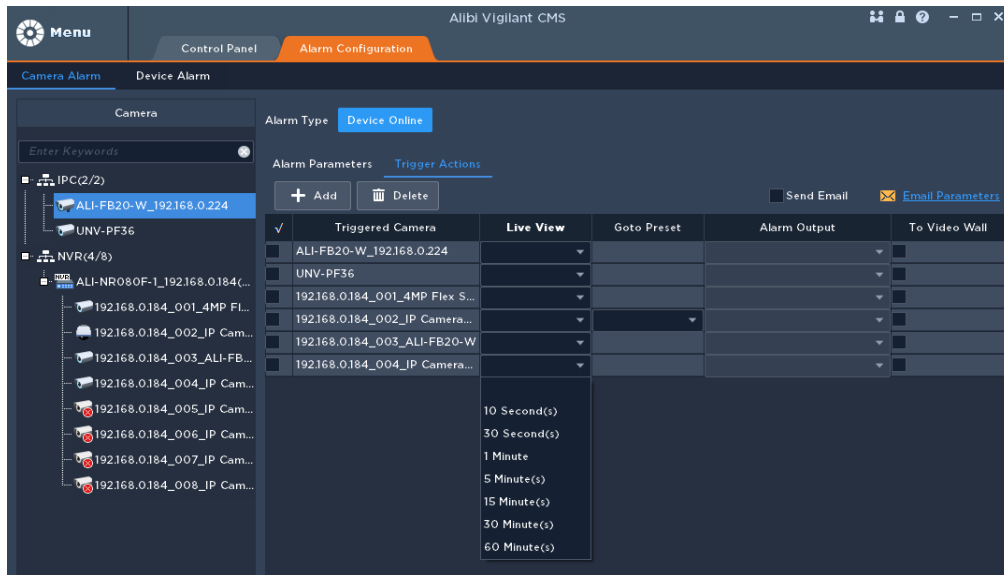
1. At the top of the screen (1), click either **Camera Alarm** or **Device Alarm**.
 - **Camera alarm:** includes camera online/offline, event alarm and VCA alarm.
 - **Device alarm:** includes device online/offline, disk online/offline, high/low temperature, etc.
 For this example, Camera Alarm was selected.
2. Select an alarm source (2). The alarm source generates the data that causes an alarm. The alarm triggers the actions.
3. Select an alarm type (3). An alarm of the specified type will trigger the configured actions. If you choose face recognition match or not match alarm, make sure the monitoring task has been configured (see [Monitoring Task](#)).
4. Click **Alarm Parameters** (4) and then click **Configuration** to open the camera's or device's web interface to configure the device for alarm detection. Many cameras can be configured to detect the following alarm types: motion detection, tampering detection, alarm input, audio detection, intrusion detection, cross line detection, face detection, defocus detection, object left behind, object removed, human body detection. For example, to configure motion detection verify that it is enabled, that a detection area is specified, and an arming schedule is configured.
5. Click the **Trigger Actions** tab (5).
6. To receive an email alert when an alarm occurs, check the select box (6) and complete the email configuration setup (see [Client Configuration](#)).



- Click **Add** (7). A dialog box appears. Select the device(s) (8) to link and then click **OK**. The linked device(s) appear on the list. The device(s) will be triggered to perform the specified action(s) when an alarm of the specified type (step 2) occurs at the specified source (step 1).




- Configure actions to trigger:



- **Alarm-triggered live view:** An alarm will trigger a pop-up window playing live video from the camera.
- **Alarm-triggered preset:** An alarm will trigger the PTZ camera to execute a preset. Open the drop-down list to select the preset.
- **Alarm-triggered output:** An alarm will trigger the camera to output an alarm and trigger an action by a third-party device.
- **Alarm-triggered video wall:** An alarm will trigger the video wall to play live video from the camera. You need to complete video wall configuration first. Only one camera can be selected.

9. Click **Save**.

10. To enable alarm-triggered live view, click  in the bottom left corner of the GUI and select **Display Link Video**.

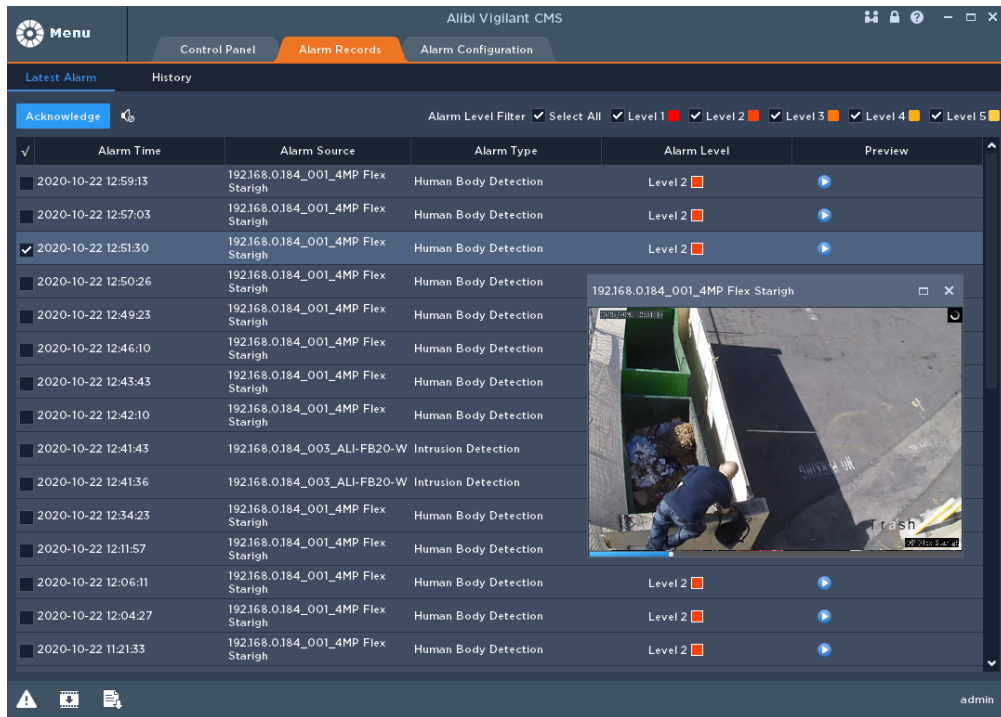


NOTE!

Triggering live video from multiple cameras may cause high CPU usage of your PC and may therefore affect other services.

View Alarm Records

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



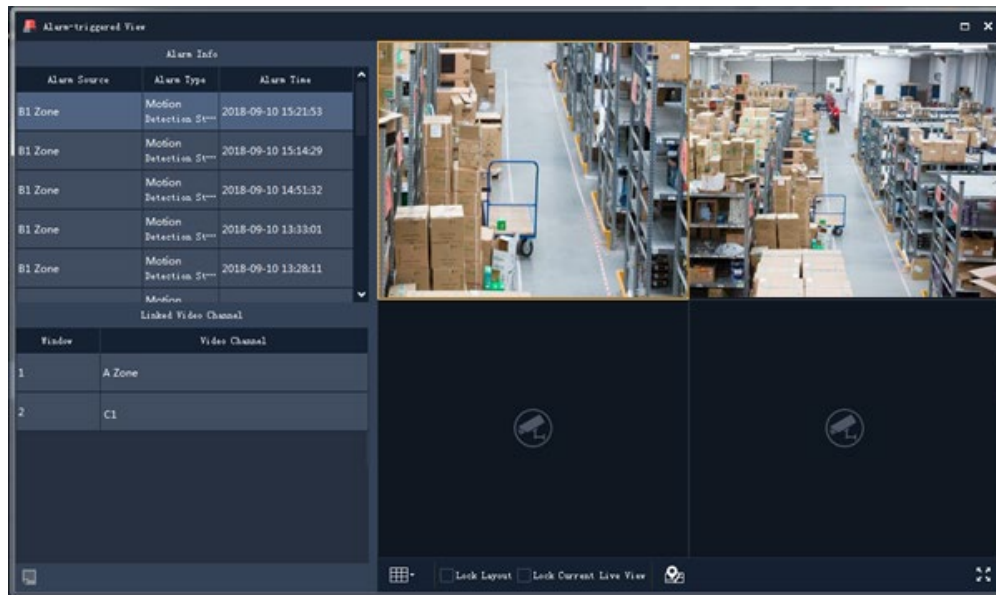
Latest Alarm

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



You can:

- Sort records in ascending/descending order by clicking a header (e.g., **Alarm Time**).
- **Acknowledge alarms:** Select (or double-click) an alarm and click **Acknowledge**. Acknowledged alarms are moved to the History tab.
- Click to turn on/off alarm sound.
- Click to play an alarm video. The length of alarm video is configurable in client configuration (**Operation > Alarm > Stop Playback After and Start Playback Before**).
- Click to select/deselect all the alarms displayed.
- Click the **Latest Alarm** button () in the lower left corner of your GUI. On the page displayed, you can turn on/off alarm sound, select/deselect **Display Link Video** to enable/disable alarm-triggered live video, or double-click a record to display the full **Realtime Alarm** tab.
- The **Alarm-triggered View** window opens and plays alarm-triggered live video when an alarm occurs.



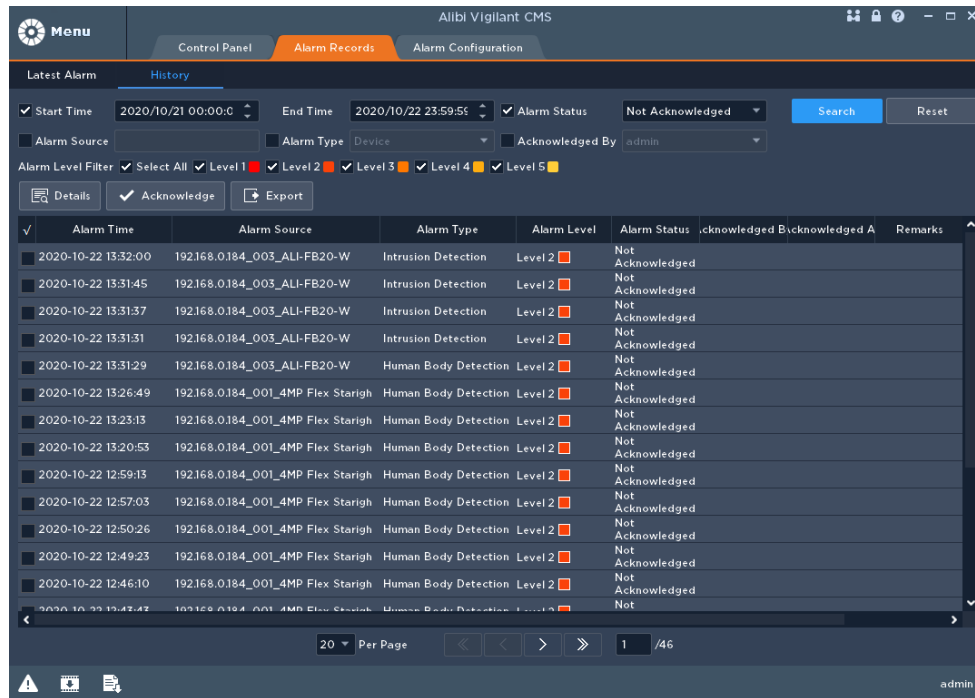
Tips:

- The window toolbar is available (see **Live View Window Toolbar**).
- **Lock Screen:** When selected, the current window layout (e.g., 4-window layout) is locked, and it does not change as new alarm-triggered live video occurs.
- **Lock Current Live View:** When selected, the current live video will not be replaced by new alarm-triggered live video.
- Live video stops when the set play time is over (see [Configure Alarm-Triggered Action](#)). You can play the video again by double-clicking the alarm record in the top left area.
- Click the button in the lower left corner to open the alarm records page. Alarm level and corresponding alarm types:

Alarm Level	Alarm Type
Level 1	Manual alarm
Level 2	Device offline, motion detection started, alarm input started, cross line detection, intrusion detection, face detection, audio detection started, defocus detection started, scene change detection, auto tracking, tampering detection started, disk abnormal, disk offline, array damaged, array degraded, face recognition match alarm, face recognition not match alarm, object left behind, object removed, human body detection, video loss started, high temperature, low temperature, fan failure, LED distribution box high temperature, LED distribution box smoke alarm.
Level 3	Device online, disk online.
Level 4	Reserved.
Level 5	Motion detection ended, alarm input ended, auto tracking alarm cleared, audio detection ended, tampering detection ended, array back to normal, video loss ended, high temperature cleared, low temperature cleared, fan failure cleared, LED distribution box high temperature cleared, LED distribution box smoke alarm cleared.

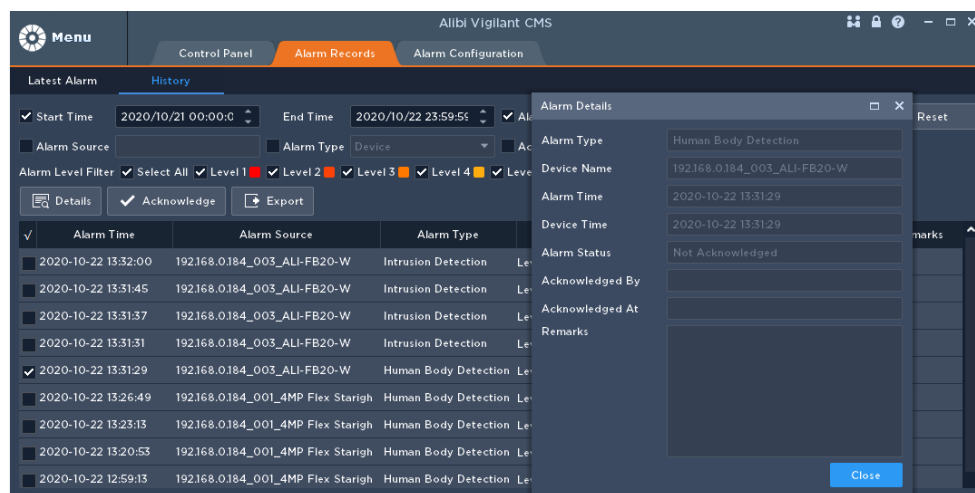
History Alarm

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



You can:

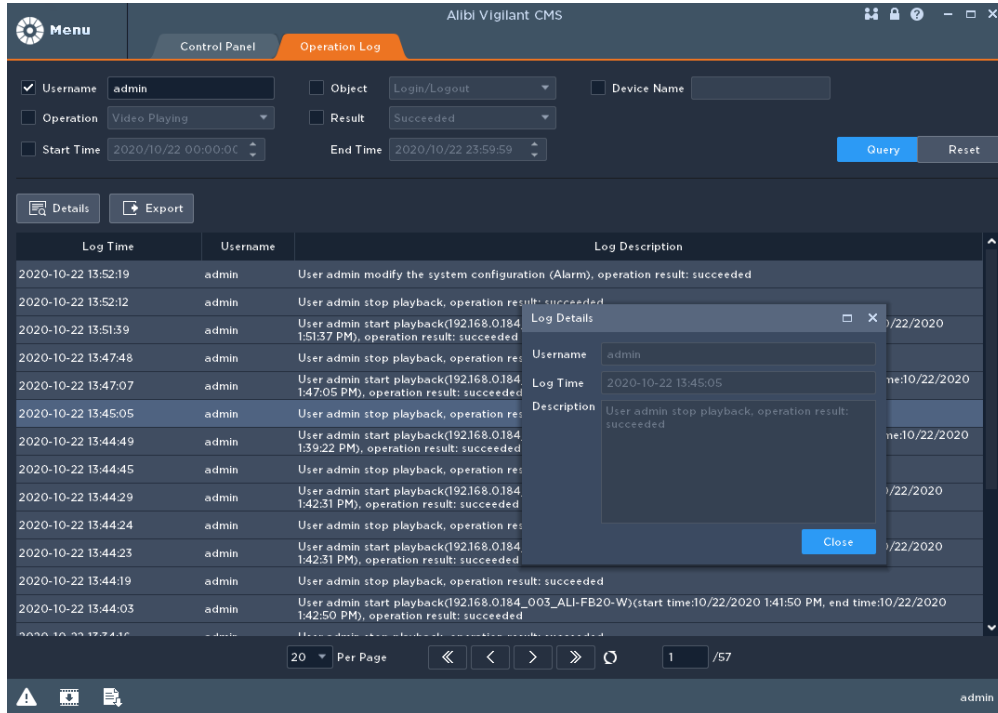
- Set search conditions. Click **Reset** to reset search conditions.
- Click a header (e.g., **Alarm Time**) to sort records in ascending/descending order.
- Choose the number of records displayed per page.
- Double-click a record to view details (see below). **Alarm Time** is your PC's system time when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



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

14 Operation Logs

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

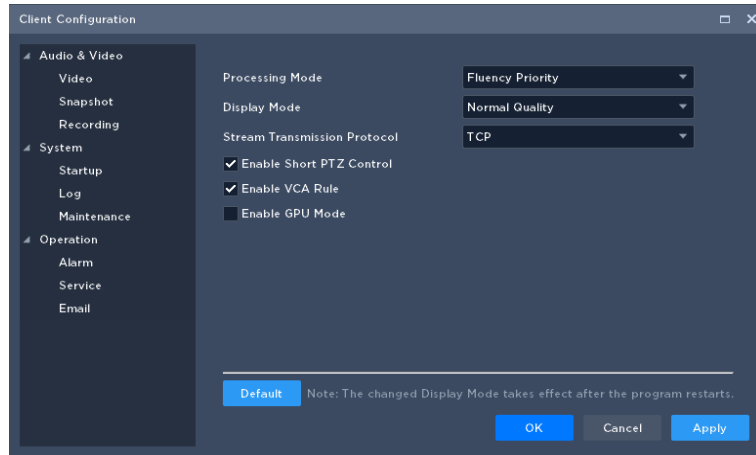


You can:

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

15 Client Configuration

Click **Client Configuration** on the Control Panel to configure the usage parameters shown in the table below.



Parameter		Description
Audio & Video	Video	Processing Mode <ul style="list-style-type: none"> • Short Delay: Video delay is minimized, though video quality may not be satisfactory. • Fluent: Video fluency takes priority, and video delay may exist.
		Display Mode Set according to the display capability of your PC.
		Stream Transmission Protocol Transmission protocol for a camera to send video data to the display window. The changed setting takes effect at the next startup of the software. Note: <ul style="list-style-type: none"> • TCP is recommended in slow network conditions. • For UDP, make sure the software is not blocked by the firewall.
	Enable Shortcut PTZ Control When enabled, shortcut PTZ control is available.	
	Enable VCA Rule When enabled, VCA rules display on the live video of the camera that supports this function.	
	Enable GPU Mode When enabled, the software can start stream for more cameras. The supported encoding formats (e.g., H.264, H.265) are displayed when this option is enabled.	
	Snapshot	Snapshot Mode <ul style="list-style-type: none"> • Auto: Save snapshot(s) in specified format to the specified path. • Manual: In this mode, select the snapshot(s) to save, set the path and format, and enter remarks (for JPEG only).
Continuous Snapshot Interval Time interval between two snapshots.		

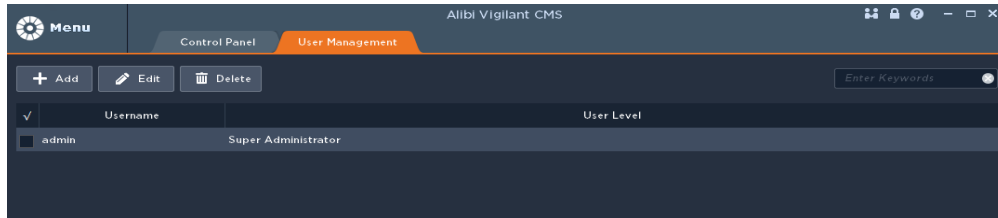
		Continuous Snapshots	Number of snapshots to take every time.
		Snapshot Format	Select the file format of snapshots: <ul style="list-style-type: none"> ● BMP: Save snapshots without compression. ● JPEG: Snapshots are compressed to save space, but with reduced image quality.
	Recording	Downloaded Recording	Format and save path of downloaded recordings. You can select either mp4 or ts (proprietary) format.
		Local Recording	Format and save path of local recordings.
			Set the recording policy when recording space is used up: <ul style="list-style-type: none"> ● Overwrite: Earliest recordings will be overwritten by new recordings when space is used up. ● Stop: Recording stops when space is used up.
Recording space : The disk space used to save recordings. Note : Set recording space to at least 2GB (recommended).			
		Recording file size : The size of a single recording.	
Parameter		Description	
System	Startup	Enable Auto Login to Alibi Vigilant CMS	When enabled, you will automatically log in to Alibi Vigilant CMS after you start the software. If Enable Auto Login to Windows is enabled, the CMS starts automatically after Windows starts and you log into the Windows operating system.
		Enable Auto Login to Windows	When enabled, automatically log into Windows with the provided username and password at startup.
	Log	Save Operation Log For	Retention period for operation logs.
		Save Alarm Log For	Retention period for alarm logs.
	Maintenance	Import Configuration	Import configurations from a configuration file.
		Export Configuration	Export configurations to save as a file.
Operation	Alarm	Enable Alarm Sound	If enabled, you can custom alarm sound duration and set different sounds for different alarm types.
		Start Playback Before/After	Length of video before/after the alarm time for playback. Use these settings to customize the length of alarm video that plays on the Alarm Records page.
	Service	Enable Auto Time Sync	If enabled, the software syncs the PC's system time to cameras at the synchronization interval.

Email	<p>Required for alarm-triggered email (see Configure Alarm-Triggered Action). The specified email address(es) will receive an email when an alarm occurs.</p> <ul style="list-style-type: none">• Sender: Email address used to send emails.• Recipient: Email address used to receive emails. <p>Tip: Use the sender address as the recipient and click Send Test Email to test.</p>
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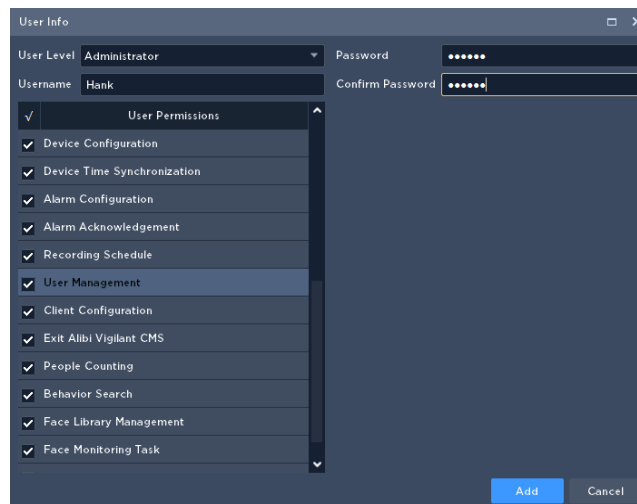
16 User Management

Click **User Management** app on the Control Panel to add, edit or delete users.

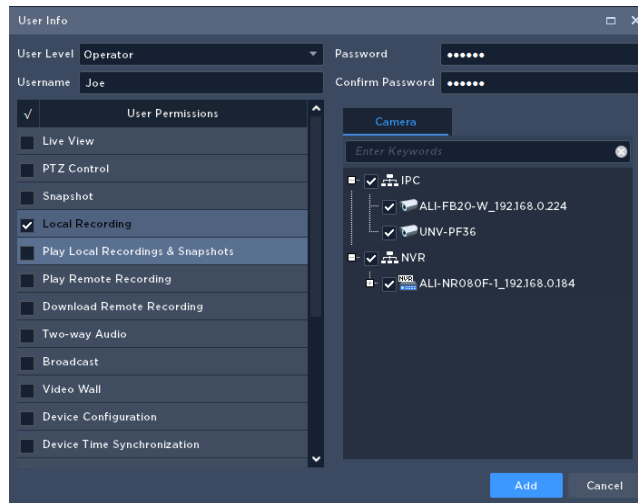
Use the default username/password (**admin/123456**) to log in. The *admin* user is the Super Administrator and cannot be edited or deleted.



1. To add a user, click **Add**:
2. In the **User Management** menu, you can create two kinds of user levels:
 - **Administrator**: An Administrator user with User Management permissions can add users with administrator permissions and operators with specific permissions, can change passwords and can delete users. Administrator has all permissions by default. The Super Administrator (*admin* user) cannot be deleted.
 - **Operator**: *admin* user or user with Administrator privileges and User Management can add operators. An operator has no permission by default.



3. To assign permissions, specify permissions on the left. For some permissions (e.g., Live View), you must also select device(s) on the right.

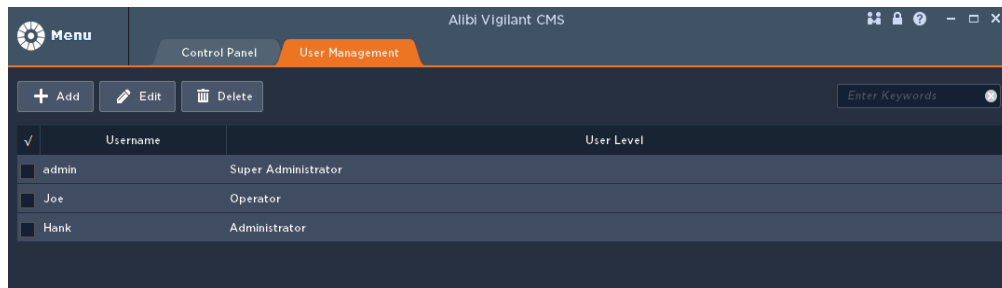


- To edit a user (username, password, permissions), double-click the user on the list. To delete user(s), select and click **Delete**.



NOTE!

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



17 Appendix

Auxiliary Monitor Recovery

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

Multi-Window Display

Drag a tab to open a new window. Example:

