

CMSONE

PRO USER MANUAL

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Table of Contents

1 Introduction	1
1.1 CMSONE Overview	1
1.2 CMSONE Operation Configuration	1
1.3 CMSONE Main Interface	2
2 Registration and Login	5
2.1 Register Super User	5
2.2 Login to CMSONE	7
2.3 Reset Password	10
3 Equipment Management	12
3.1 Add Device	12
3.2 Change Device Information	17
3.3 Interface Introduction.....	19
3.4 Search for Device by Network Segment	21
3.5 Search for Device Based on the Other Protocols	22
3.6 Remove Device.....	23
4 Preview	24
4.1 Real-Time Preview	24
5 Dwell Plan	34
5.1 Configuration of Dwell Plan	34
5.2 Start Dwell	36
6 Remote Playback	37
6.1 Overview of Remote Playback	37
6.2 Playback of Video from Device	40
6.3 Export Recorded Video	42
6.4 Slide Show of Images from Device	45
6.5 Export Images from Device	46
7 Search Logs	47
7.1 Search Logs at Client	47
7.2 Search Logs at Remote Device	48
8 System Configuration	49
9 Account Management	51
9.1 Add User	51
9.2 Modify User	53
9.3 Delete User	53
11 Login to Device	54
11.1 Login to Device	54
11.2 Remote Video Playback	55
11.2.2 Smart Search	58
11.3 Export Recorded Video	59
11.4 System Configuration	59

12 Face Detection	64
12.1 Face Recognition and Search	64
12.2 Comparison Search	67
13 Face Attendance	68
13.1 Face Attendance Search	68
14 Repeat Visitor	71
14.1 Search for Repeat Visitors	71
15 Search for Human and Vehicle	75
16 Fish-Eye View Mode	77
16.1 Access Fish Eye Mode During Live Preview	79
16.2 Access Fish-Eye Mode During Playback	80
17 Alarm Setting	81
17.1 Overview of Local Playback	81
17.2 Search Logs at Remote Device	82
17.3 Trigger alarm information window, pop-up window and sound	82
18 Local Playback	85
18.1 Overview of Local Playback	85
18.2 Playback of Local Video	87
19 Local Video Recording Schedule	89
20 File Management	93
20.1 Slideshow and Export of Local Images	93
20.2 Playback and Export of Local Videos	94

Chapter 1 CMSONE Introduction

1.1 CMSONE Overview

CMSONE (Central Monitoring System) is a management system used to manage small-batch safety protection monitoring equipment. The CMSONE client can be used in conjunction with DVR, NVR, IPC, network storage equipment and alarm equipment.

The CMSONE features:

- Software-based password reset.
- Available for multiple users.
- Adding a single device or devices by batch and devices for different protocols.
- Remote configuration of devices
- Real-time view and playback of videos from multiple cameras.
- Sequential view of multiple devices.
- Remote playback of videos and captured images.
- Configuration of multiple alarm detections.
- Configuration of e-map for device locating at any time and for easy deployment.
- Search and export of logs.
- Face recognition.
- Human/vehicle form recognition.
- One-click import and export of information documents to/from devices.
- File management and separate view of picture and video.

1.2 CMSONE Operation Configuration

The software operation configuration includes operating system, CPU, memory, graphics card and GPU.

- **Operating System:** Microsoft Windows 7/8.1/10 (32/64 bit)/ Windows Sever 2008 (64 bit)
- **CPU:** Intel Pentium4.3.0@3.0 GHz or above
- **Memory:** 2 G or more
- **Graphics Card:** RADEON X700 series
- **GPU:** 256 M or higher

1.3 CMSONE Main Interface

The CMSONE software interface is shown in Figure 1-1. For more details refer to Table 1-1.

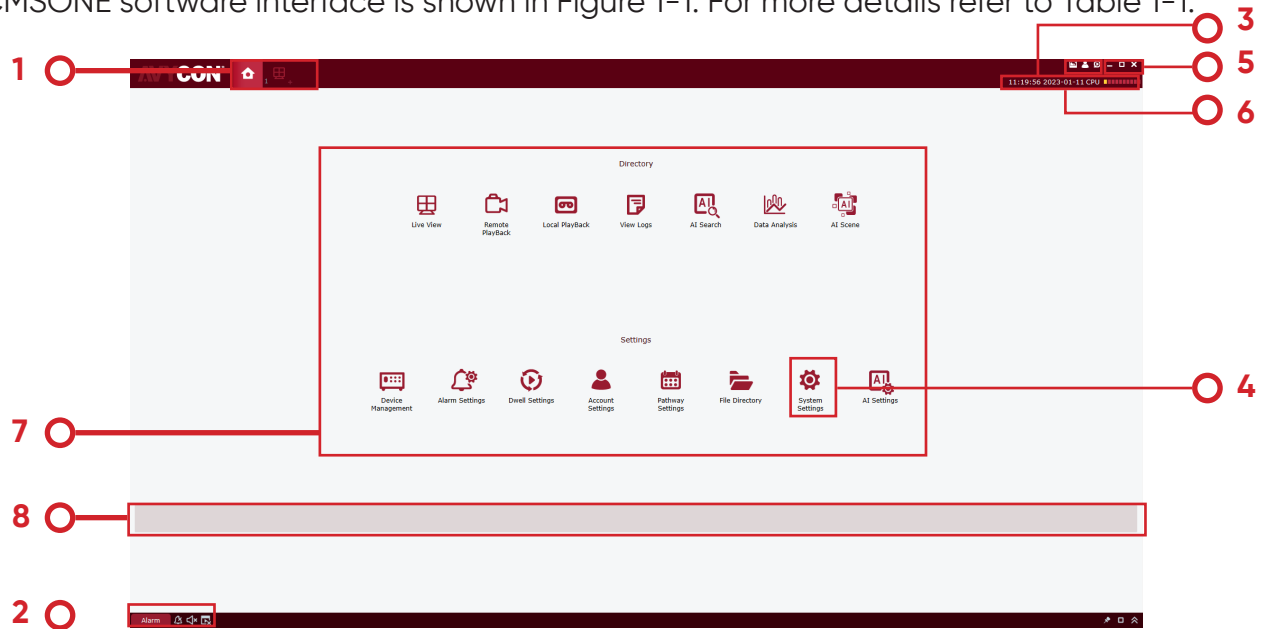







Figure 1-1 Main Interface

SN	Name	Description
1	Function Tab	The "Main Window" tab and main menu are displayed in factory setting by default. Click on a desired function in the "New Function Page" interface to enter relevant function interface, and the tab name will change into the function name.
2	Event Management	Click the icon or to mute the alarm or enable it audible. Click the icon or to activate or deactivate warning box. Click the icon to clear alarm message. Click the icon to view alarm information. For more details, refer to Section 14 Alarm Settings.
3	User Management	Click to set resolution. Click and then choose to pop up the player. Click and then choose to lock the screen so that the login password is required for unlocking. Click and then choose to change user. Click and then choose to display software name and version number.

SN	Name	Description	
4	System management	Click  to enter "System Settings" interface, where you can set language, automatic login and remember password, file storage type and path and alarm sound.	
5	Window Management	Click  to minimize the software window. Click  to maximize the software window. Click  to restore to the initial software window. Click  to exit from the software.	
6	System State	The system state information includes current system time, and CPU and memory usage, as well as the user name and login time.	
7	Function List	<p>The function list is divided into operation area and configuration area, which contains the functions as described below.</p> <ul style="list-style-type: none"> Remote Playback Remote playback: Video and pictures can be viewed remotely, or by different dates as chosen, and can be cut and downloaded to local destination. Local Playback Local playback: Videos can be viewed and exported at the client. Log Search Logs can be searched and exported at the client or remotely. Face Search Face search and comparison 	<ul style="list-style-type: none"> Human and Vehicle Search for human and vehicle type. Face Attendance Face attendance: Attendance time setting for check-in/-out of staff. Repeat Visitors Repeat Visitors: Search for all faces which meet specified conditions, summarize identity information and merge the information on visitors with the same information. Device Management Equipment management: Add and remove device files, and set the device remotely.

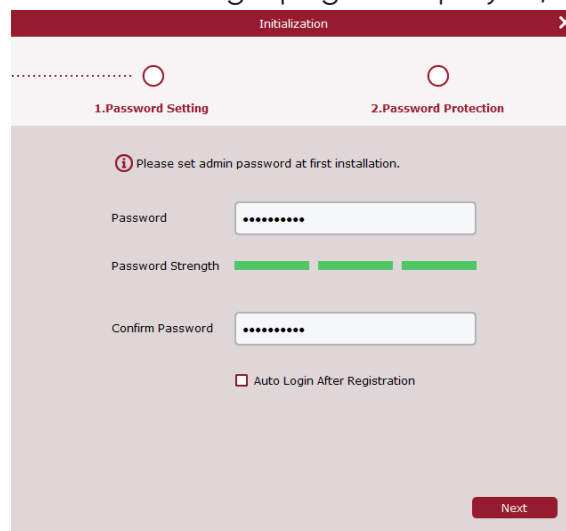
SN	Name	Description
		<ul style="list-style-type: none"> • Device Management Equipment management: Add and remove device files, and set the device remotely. • Alarm Config Alarm device: Make settings on alarm device, such as motion, IO, videoLoss, PIR, and intelligent alarm. • Cruise Setting Cruise setting: Set the channel and equipment for Cruise. • Account management User management: Add and remove sub-users, and modify the sub-user's authority. • Local Record Local recording settings: Sets the path where the recording files are saved and recording schedule. • File Management Files management and search for local videos and images. • System Config System settings, where you can set language, automatic login and remember password, file storage type and path and alarm sound. • E-map config E-map configuration: Place a camera on e-map so as to quickly locate anything occurring.
8	Function Tips	When the mouse hovers over a function tab, a message box will be displayed, describing the function promptly.

Chapter 2 Registration and Login

2.1 Register Admin

Upon initial login to CMSONE, you have to set a login password for admin and a question for password protection by following the prompts. The password will be used for login to the system, and the question for password protection can be used to reset the password.

Step 1: Double click on . The "Admin Settings" page is displayed, as shown in Figure 2-1-1.



Set a password for "admin", and the specific parameters are shown in Table 2-1.

Parameter	Description
Password	The password consists of 8~32 non-null characters, including uppercase, lowercase, numeric, and special characters.
Password Strength	Password complexity will be reported. Red means inadequate complexity and safety, while green means adequate password strength. Please set a password with high security level based on the password strength prompt strength. Please set a password with high security level based on the password strength prompt.

Parameter	Description
Password Confirmation	Make sure the password typed for two times are consistent.
Automatic Login After Registration	If it is checked, the system will log in automatically when registration is completed. Or otherwise, the system will display the login interface.

Table 2-1 Description of Initialization Parameters

Step 2: Set the password and click Next, as shown in Figure 2-1-2.
Figure 2-1-2 Question for Password Protection

Step 3: Set a question and the answer. The question for password protection can be used to reset the password by answering the question if you forget the password.

Step 4: When finishing settings, click Finish to save the configuration.

The screenshot shows a dialog box titled "Initialization" with a close button (X) in the top right corner. At the top, there is a progress indicator with a red checkmark under "1.Password Setting" and an empty circle under "2.Password Protection". Below this, an information icon (i) is followed by the text "Please set security questions.". The form contains two sets of input fields. The first set is for "Question 1" with a dropdown menu showing "What is your nickname?" and an "Answer" field containing "ans1". The second set is for "Question 2" with a dropdown menu showing "When is your father's birthday?" and an "Answer" field containing "ans2". A red "Finish" button is positioned at the bottom right of the dialog.

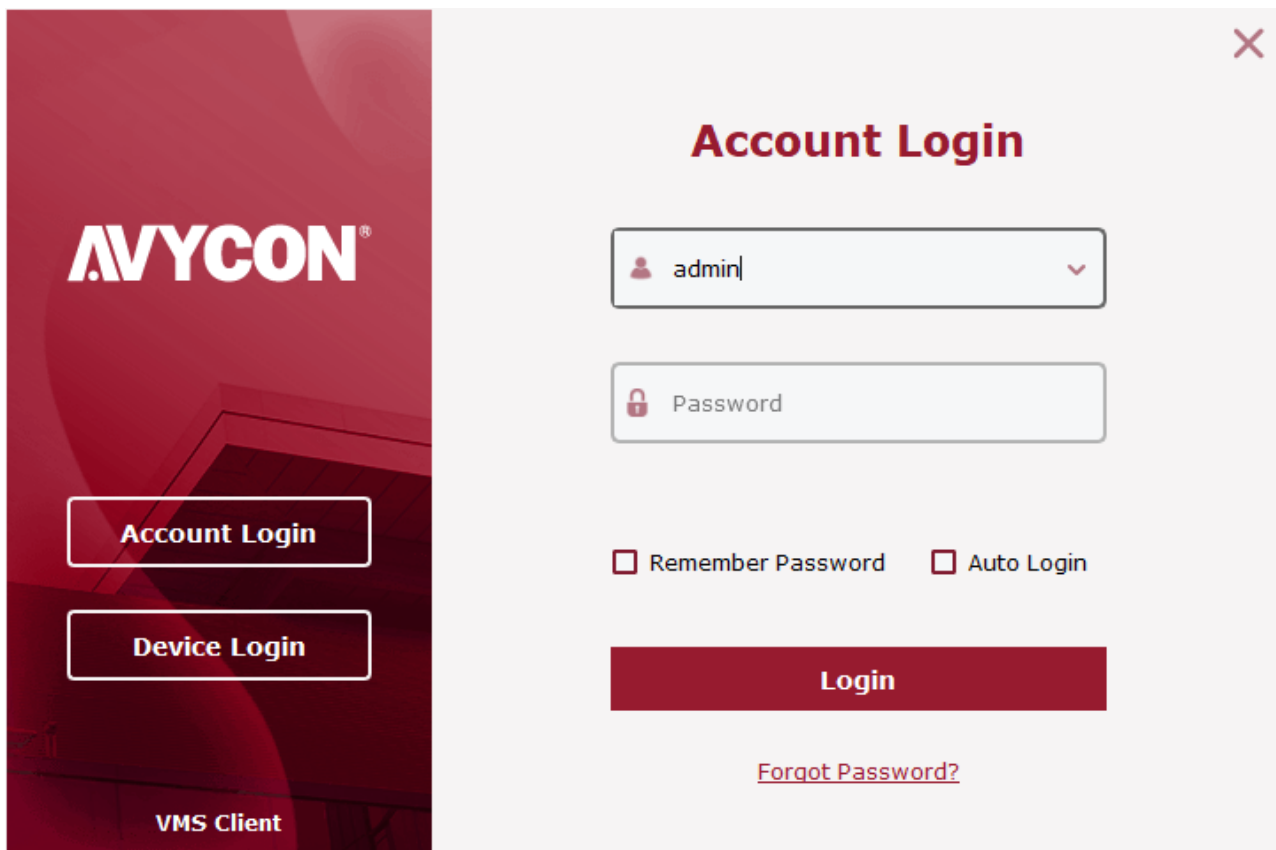
Figure 2-1-2 Question for Password Protection

2.2 Login to CMSONE

(1) After the equipment is initialized, enter your account and password to login to CMSONE.

Step 1: Double click on .

The system displays the login interface, as shown in Figure 2-2-1.



Account Login

admin

Password

Remember Password Auto Login

Login

[Forgot Password?](#)

Figure 2-2-1 Login with Account

Step 2: Set parameters. Detailed parameters are shown in Table 2-2-1.

Username	Enter your user name and related password.
Password	
Remember Password	If it is checked, the system will remember the password, and recall the password used at the last login when you log in-again the password, and recall the password used at the last login when you log in again
Auto Login	If it is checked, the system will remember the account and password, and login automatically next time.
Forgot Password?	If you forget your password, you can reset it by answering the password protection question. Please refer to "2.3 Reset Password" for more details.

Table 2-2-1 Description of Login Parameters

Step 3: Click on "Login".

System displays an interface, as shown in Figure 2-2-2.

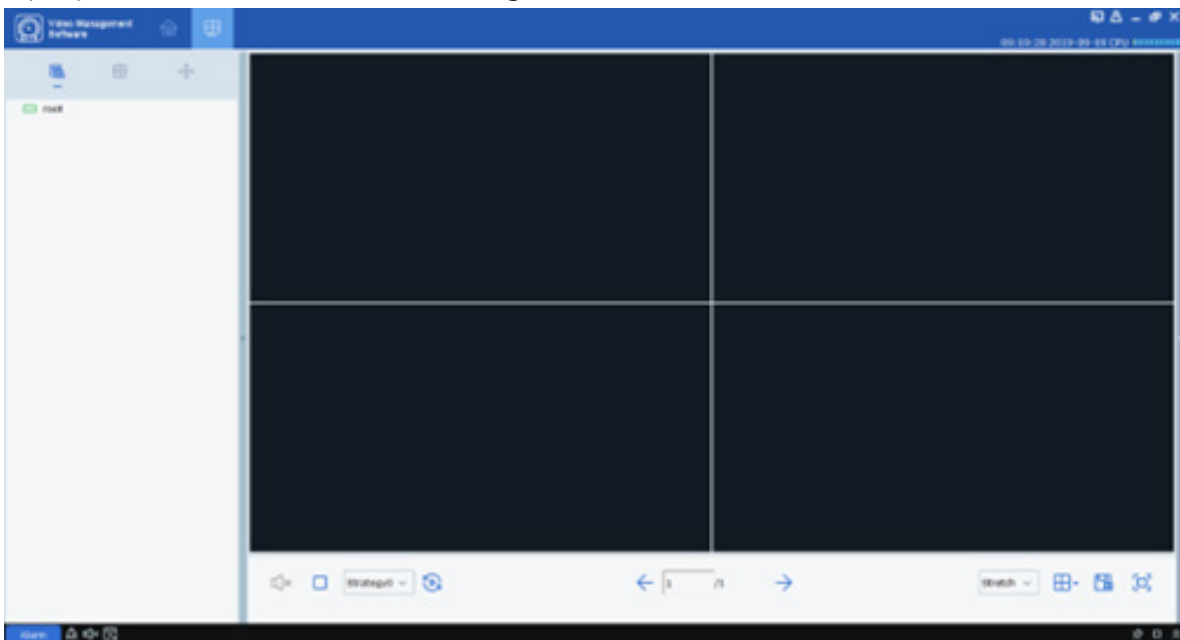


Figure 2-2-2 System Interface

(2) Login to the CMSONE from the device.

Step 1: Double click on .

Step 2: After the system displays the login interface, click on “Login from Device” option on the left to switch to the Login from Device interface, as shown in Figure 2-2-3.

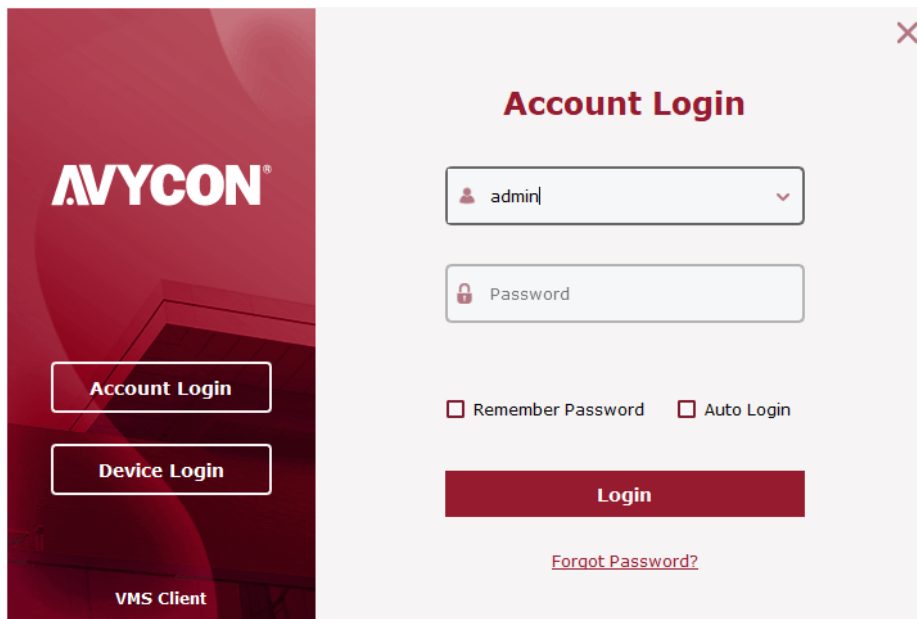


Figure 2-2-3 Login from Device Interface

Step 3: Set parameters, as detailed in Table 2-2-2.

Parameter	Description
Device IP/ID	Enter the IP/ID of the device
Client port	Input port number
Username	Input port number
Password	
Remember Password	If it is checked, the system will remember the password, and recall the password used at the last login when you log in again.

Table 2-2-2 Login Parameters

Step 4: Click on Login to login. System displays an interface, as shown in Figure 2-2-4.

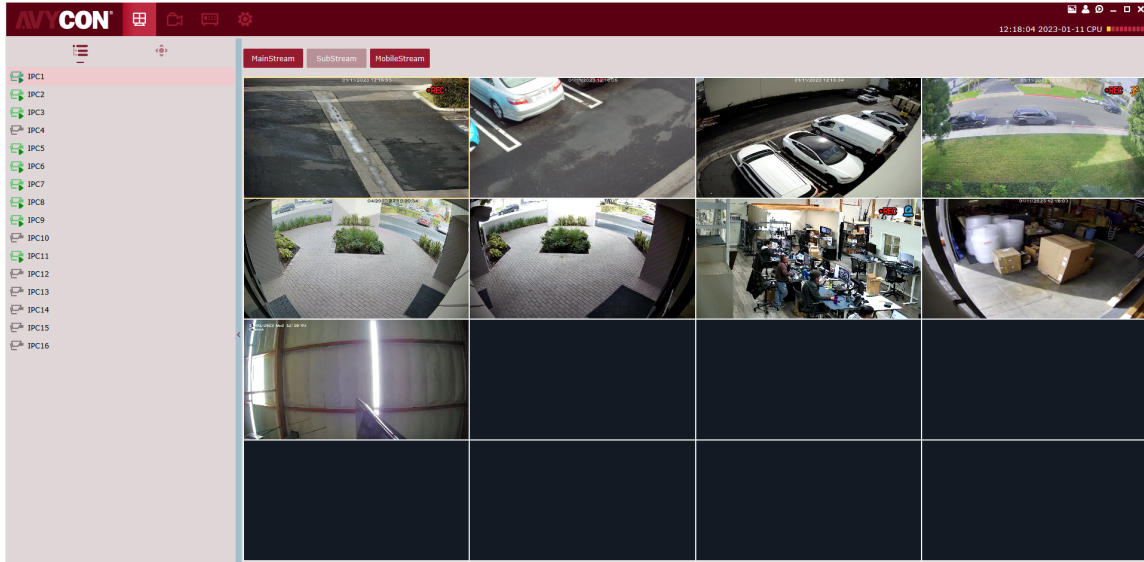



Figure 2-2-4 Device Display Interface

Note:

For more details on device login interface, refer to "Section 11 Login from Device"

2.3 Reset Password

If you forget your password, you can reset it by answering the password protection question.

Step 1: Double click on . The system displays the login interface, as shown in Figure 2-2-1 above.

Step 2: Click on [Forgot Password?](#). The system will display the password protection question interface, as shown in Figure 2-3-1.

 The screenshot shows a 'Password Reset' dialog box. It has a red title bar with an information icon and a close button. The main content area is light gray and contains the text 'Please answer security questions.' followed by two questions. Each question has a corresponding 'Answer' input field. At the bottom right, there are two buttons: 'Cancel' and 'Next'.

Question 1: What is your nickname?

Answer:

Question 2: When is your father's birthday?

Answer:

Buttons: Cancel, Next

Figure 2-3-2 Password Reset

Step 3: Answer the question, and click on “Next”. The system displays a password reset interface, as shown in Figure 2-3-2.

The screenshot shows a 'Password Reset' dialog box. At the top, there is a dark red header with an information icon on the left and a close 'X' icon on the right. Below the header, there is a message: 'Please reset admin password.' followed by three input fields: 'Password', 'Password Strength' (represented by a progress bar), and 'Confirm Password'.

Figure 2-3-2 Password Reset

Step 4: Set the password, as detailed in Table 2-3.

Parameter	Description
Password	The password consists of 8~32 non-null characters, including uppercase, lowercase, numeric, and special characters.
Password Strength	Password complexity will be reported. Red means inadequate complexity and safety, while green means adequate password strength.

Table 2-3 Description of Password Reset Parameters

Step 5: Click on “Finish” to save the configuration.


Chapter 3 Equipment Management

CMSONE allows adding devices (such as IPC, NVR and etc.) by automatic searches or single or batch import. Once a device is added, it is possible to remotely configure and operate the device on CMSONE.

3.1 Add Device

CMSONE allows adding devices by various means as appropriate based on the number of devices added or network segments.

(1) Where several devices to be added are located in one network segment, or the IP address of the device is unknown and only the network segment is known, it is recommended to add devices by searching.

Step 1: Click  on the device interface to enter the main menu. Click on “Device Management” in the configuration area on the home page to display the Device Management interface, as shown in figure 3-1-1.

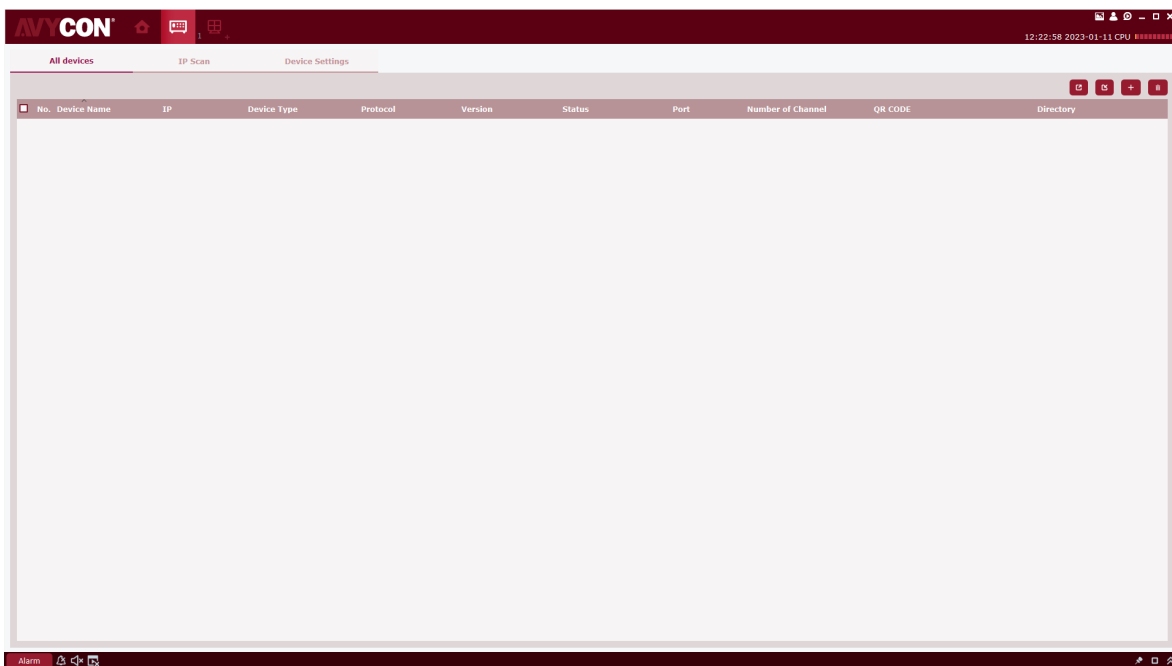


Figure 3-1-1 Device Management Interface

Step 2: Click on “Auto Search” on the device management interface to enter the “Automatic Search” interface, as shown in Figure 3-1-2.

No.	Device	IP	Port	Media Port	Fiber of Chan	Mac address	Version	Active state	QR CODE	Directory
1	Onvif	192.168.100.86	80	9000	1	00-23-63-9E-2E-82	V40.45.8.2.3_221012	activated	照	+ /
2	IPC	192.168.100.137	80	9000	1	00-23-63-AD-D8-AD	V20.55.6.0_200722	No	照	+ /
3	IPC	192.168.100.96	80	9000	1	00-23-63-56-80-67	V20.55.6.0_200722	No	照	+ /
4	IPC	192.168.100.81	80	9000	1	00-23-63-78-C1-66	V12.45.5.0_190926	No	照	+ /
5	IPC	192.168.100.109	80	9000	1	00-23-63-9D-E7-C8	V35.45.8.2.2_220716	activated	照	+ /
6	IPC	192.168.100.232	80	9000	1	00-23-63-81-4F-52	V12.45.6.0_200513	No	照	+ /
7	IPC	192.168.100.171	80	9000	1	00-23-63-6E-98-A6	V4.41.5.2_200301	No	照	+ /
8	IPC	192.168.100.122	80	9000	1	00-23-63-81-4F-5A	V12.45.6.0_210108	No	照	+ /
9	NVR	192.168.1.78	80	9000	16	28-36-13-D0-00-92	V8.1.0-2020222	No	照	+ /
10	NVR	192.168.1.55	80	9000	16	28-36-13-D0-23-87	V8.2.3-20221214	activated	照	+ /
11	NVR	192.168.100.197	80	9000	8	28-36-13-D0-05-85	V8.2.2-20220920	activated	照	+ /
12	NVR	192.168.100.133	80	9000	4	28-36-13-D0-02-E1	V8.2.2-20220509	No	照	+ /
13	DVR	192.168.100.131	80	9000	40	00-23-63-97-46-A4	V8.2.3-20221215	activated	照	+ /
14	DVR	192.168.100.61	80	9000	10	28-36-13-D0-0D-4D	V8.2.3-20220818	activated	照	+ /
15	DVR	192.168.100.83	80	9000	10	28-36-13-D0-1C-FE	V8.2.3-20221014	activated	照	+ /
16	DVR	192.168.100.103	80	9000	36	28-36-13-D0-0C-87	V8.1.0-20219909	No	照	+ /
17	IPC	192.168.100.88	80	9000	1	00-23-63-81-4E-3D	V10.35.7.0_201026	No	照	+ /
18	IPC	192.168.100.100	80	9000	1	00-23-63-90-13-E4	V21.45.7.1_210629	No	照	+ /
19	IPC	192.168.100.169	80	9000	1	28-36-13-D0-45-52	V21.45.8.2.3_220714	activated	照	+ /
20	IPC	192.168.100.77	80	9000	1	00-23-63-8D-41-A8	V21.45.8.2.3_221102	activated	照	+ /
21	IPC	192.168.100.155	80	9000	1	28-36-13-D0-38-50	V21.45.8.2.3_220714	inactivated	照	+ /
22	IPC	192.168.100.156	80	9000	1	28-36-13-D0-88-C0	V21.45.8.2.3_221102	activated	照	+ /
23	IPC	192.168.100.196	80	9000	1	00-23-63-90-31-E8	V21.45.7.1_210629	No	照	+ /
24	IPC	192.168.100.63	80	9000	1	00-23-63-8D-40-4D	V21.45.8.2.3_221102	activated	照	+ /
25	IPC	192.168.100.102	80	9000	1	00-23-63-8F-46-D0	V26.34.8.2.3_221102	activated	照	+ /
26	IPC	192.168.100.175	80	9000	1	28-36-13-D0-31-89	V26.34.8.2.3_221102	activated	照	+ /
27	IPC	192.168.100.187	80	9000	1	28-36-13-D0-8A-63	V31.35.8.2.3_221101	activated	照	+ /

Figure 3-1-2 Automatic Search Interface

Step 3: Devices for up to four types of protocol (Private, HikVision, DaHua, Onvif under option "Protocol type") can be added by choosing the target device and clicking on icon **+**, or by checking one or more devices and then clicking on "Add" at the lower right corner. The system will pop up a dialog box, as shown in figure 3-1-3

Figure 3-1-3 Add Device Interface

Step 4: Enter "user" and "password" for login to the device, and click "Add" to complete the operation.

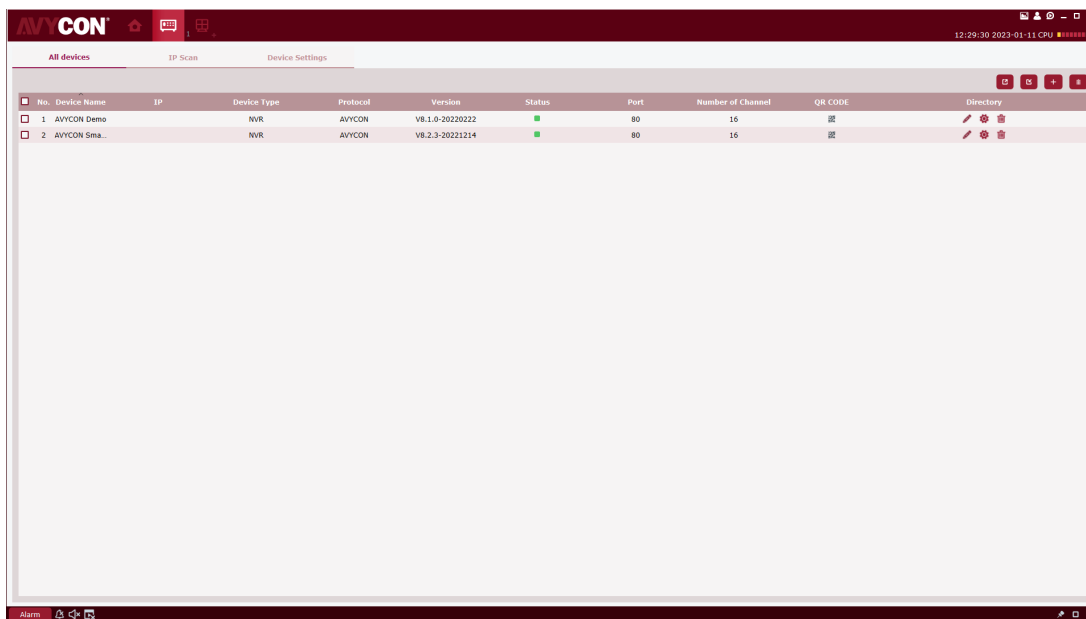


Figure 3-1-4 Device List








Icon	Illustration
	<p>Click this icon to enter the “modify device” interface, which supports modifying device information, including device name, login type, IP / domain name, protocol, port, user name and password.</p>
	<p>Click this icon to enter the “device remote configuration” interface, which supports the configuration of camera channel, recording, network configuration, alarm events, storage and system information of the device.</p>
	<p>Click this icon to delete the device.</p>
	<p>Displays whether the device is connected or disconnected. If it is red, you need to set the initial password</p>
	<p>Export or import device information. For more details, refer to (3) Export added device and (4) Import added device.</p>

Table 3-1-1 Operation Instructions

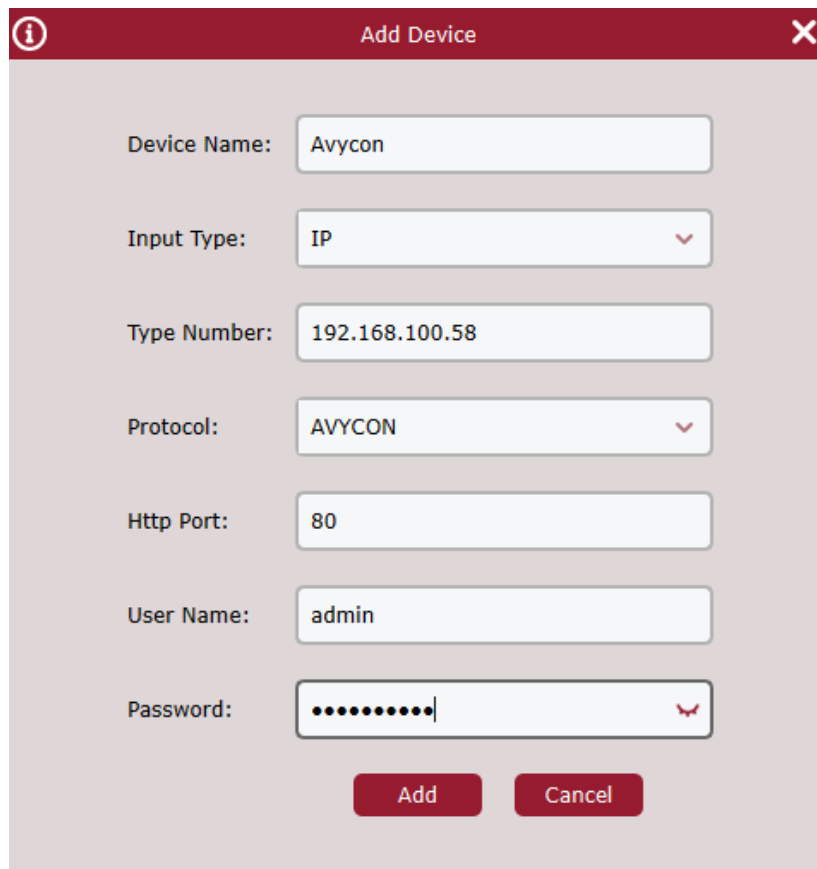
Note:

After the device is added, the system continues to stay in the "Automatic Search" interface, and you can continue to add more devices. After device adding is finished, VMS will automatically login to the device. The online status will be displayed as "  " if the login succeeds, or displayed as "  " if login fails.

(2) Add device manually

Where a single device is to be added and its IP address or domain name is known, it is recommended to add the device manually.

Step 1: Click on  on the "Device Management" interface, and the "Add Device" interface will pop up, as shown in Figure 3-1-5.



The screenshot shows a dialog box titled "Add Device" with a close button (X) in the top right corner. The dialog contains the following fields and values:

- Device Name: Avycon
- Input Type: IP (dropdown menu)
- Type Number: 192.168.100.58
- Protocol: AVYCON (dropdown menu)
- Http Port: 80
- User Name: admin
- Password: [masked with dots]

At the bottom of the dialog are two buttons: "Add" and "Cancel".

Figure 3-1-5 Add Device Manually

Step 2: Set parameters, as detailed in Table 3-1-2.



Parameter	Description
Device Name	It is recommended to name a device after the area monitored by the device for easy maintenance.
Login Type	Choose how to add the device. IP/domain name: Add a device by its IP address or domain name. P2PID: Add a device by its serial number.
IP/ID	This parameter needs to be set when "add mode" is "IP/domain". The IP address or domain name of the device. When "add mode" is "P2PID", this parameter needs to be set. Serial number of the device.
Protocol	The protocol for access to the device.
Media Port	This parameter needs to be set when "add mode" is "IP/domain". The default port number for the device is "37777", which can be changed as necessary.
User Name	The user name for login to the device.
Password	The password for login to the device.

Table 3-1-2 Parameters for Adding Devices Manually

Step 2: Set parameters, as detailed in Table 3-1-2.


Step 3: Click "Add" to finish adding device(s). For more details on available operations, refer to Table 3-1-1.

Note:

To cancel adding device, click 'Cancel' to exit from the 'Manually Add' interface. After device adding is finished, CMS will automatically login to the device. The online status will be displayed as "  " if the login succeeds, or displayed as "  " if login fails.

(3) Export added device

If user needs to save the added device, it is recommended to include the information on added device into a device information file (.XML format), and then save it to the PC by exporting it.

Step 1: Click on  on the “Device Management” interface, and the system will pop up a dialog box for storage path.

Step 2: You can directly click the path to jump to the location where the device information file is saved, as shown in the figure.

**(4) Import added devices**

If more devices to be added are not located in the same network segment, it is recommended edit a device information file (.XML format), and then add the devices by importing it.

Note:

If a device information file template is needed, it can be exported in “Device Management” interface.

Step 1: Click on in the “Device Management” interface and a dialog box will pop up.



Step 2: Select and open the device information file saved locally.

Step 3: Click on “Open”. After successfully importing the device, available operations are listed in Table 3-1-1.

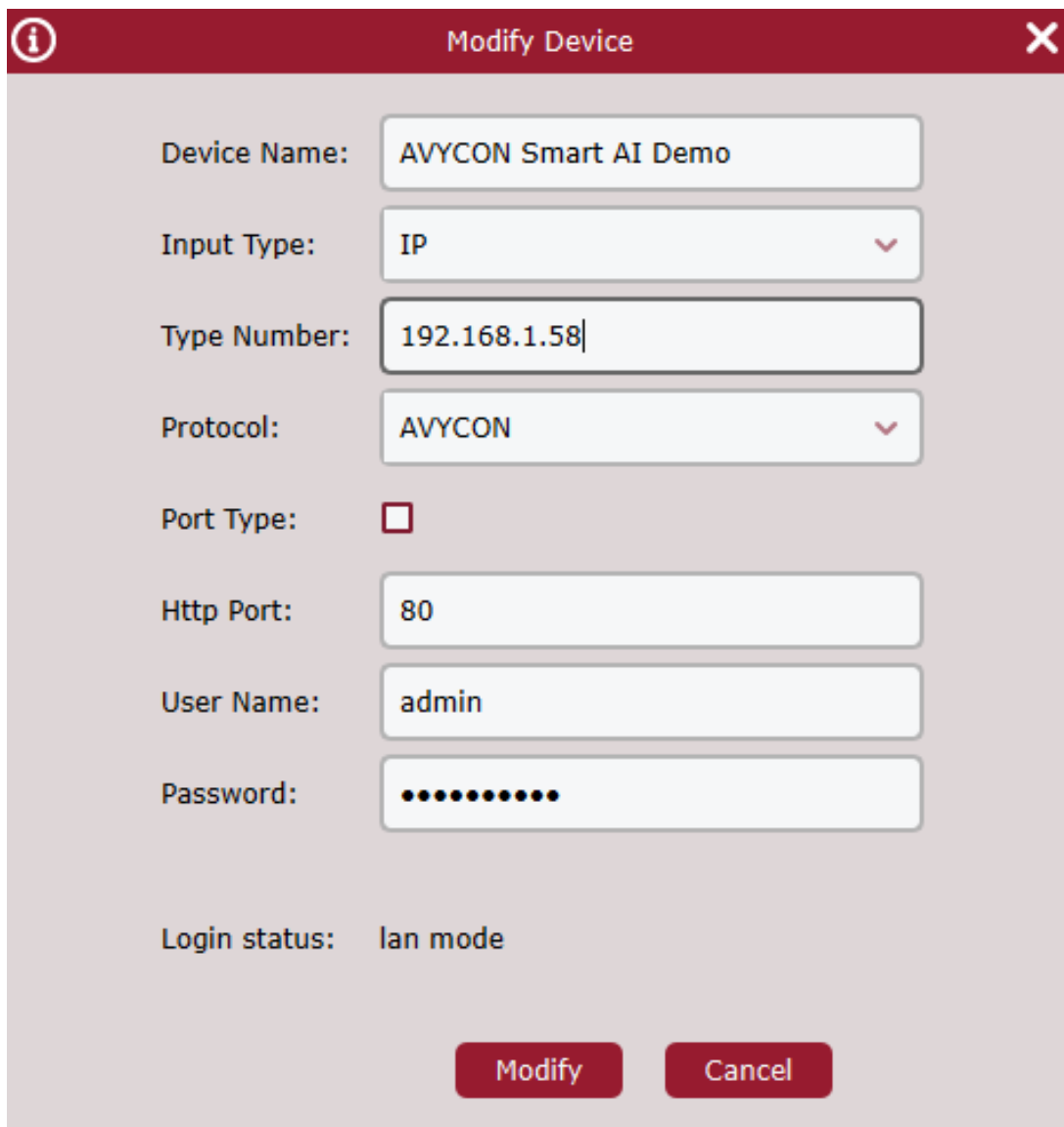
3.2 Change Device Information

Any device information (user name, password, IP/ domain name, etc.) can be changed whenever necessary.

Note:

This section describes how to change device information. Refer to “10 Device Configurations” for more details

Step 1: In the Device Management interface, click " " behind the target device in the list. The system displays "Change Device" page, as shown in Figure 3-2-1.



The screenshot shows a "Modify Device" dialog box with the following fields and values:

- Device Name: AVYCON Smart AI Demo
- Input Type: IP
- Type Number: 192.168.1.58
- Protocol: AVYCON
- Port Type:
- Http Port: 80
- User Name: admin
- Password: ••••••••
- Login status: lan mode

Buttons: Modify, Cancel

Figure 3-2-1 Change Device

Step 2: Change the device information, and see Table 3-1-2 for more details.

Step 3: Click "Modify" to save the configuration.

3.3 Interface Introduction

Each part and function of the interface are described by zone.

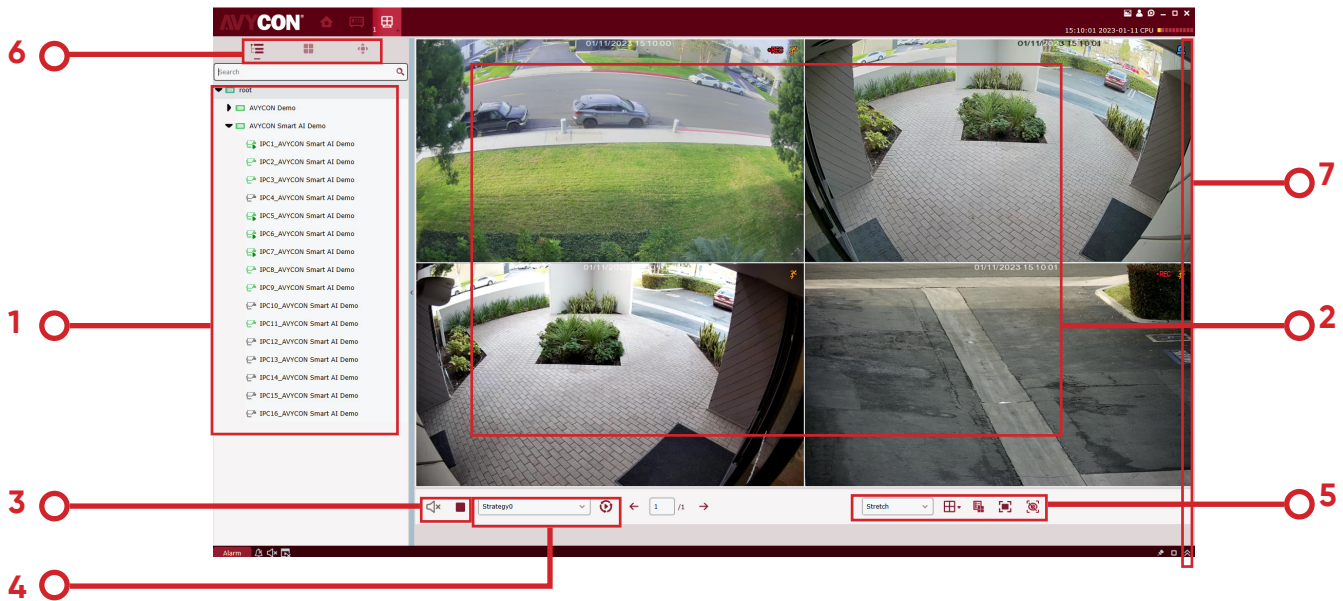


Figure 3-1 Preview

Select "Mainview" in Main Menu, and the system will open the preview interface, as shown in Figure 3-1. See Table 3-1 for more details.

SN	Name	Description
1	Device Tree	The default group can be opened by double-clicking, which contains all added devices. Any channel can be opened for preview by dragging a device or double-clicking the channel. Click on the right mouse button to select the master code stream and switch all channels on/off.
2	Preview Window Area	The windows in preview area can be divided by various pattern. Screen-shot and video recording, as well as Cruise, voice call and zoom-in are available during preview. See "4.1 Live Preview" for details.








SN	Name	Description
3	Main Audio Control Area	Controls sound and ceases all windows running.
4	Cruise Selection Area	Where any Cruise plan is available, you can quickly select the plan in this area to start it.
5	Frame ratio, window setting and view creation area	Stretch  : Zoom the screen frame in/out
		 : Full screen display
		 : Adjust number of windows
		 :When there are many devices accessed and it is often necessary to preview the monitoring screen of a number of fixed devices simultaneously, save the preview window that opens the preview of multiple devices as a view, and then preview this view, that is, preview of multiple devices under this view. The view created will be added to the device list area under the view tab, and can also be added to Cruise plan.
6	List changeover area	 :Click to enter the view tab to view your custom view  :Click to enter the cradle head control tab and control the device through cradle head
7	Snapshot area	The Snapshot made automatically by the device will be displayed in this area.

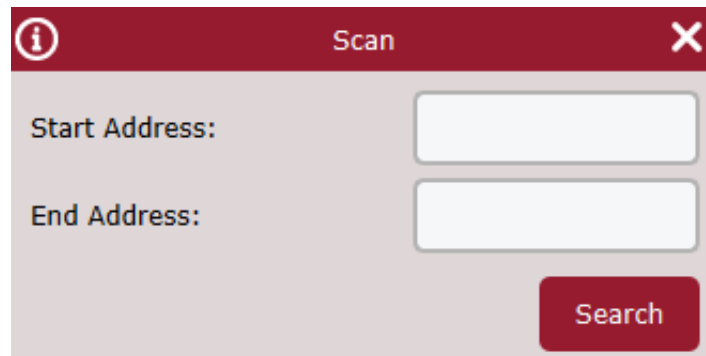
Table 3-1 Overview of Preview Interface

3.4 Search Devices by Network Segment

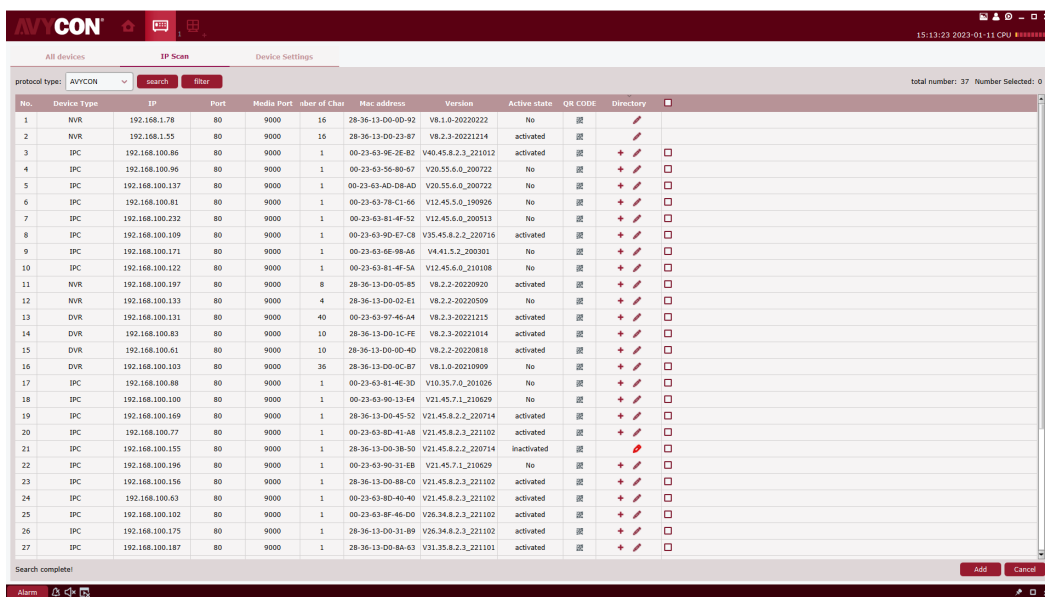
By setting network segment, all devices within the network segment can be found by search.

Step 1: In the “Device Management” interface, click on “Auto Search”. The system pops up an interface, as shown in Figure 3-1-2 above.

Step 2: Click on  to pop up the “Search by Segment” interface, as shown in Figure 3-3-1.



Step 3: Fill in the target segment, and then click on “Search” to start search. The search results are shown in Figure 3-3-2.



No.	Device Type	IP	Port	Media Port	nber of Char	Mac address	Version	Active status	QR CODE	Directory
1	NVR	192.168.1.78	80	9000	16	28-36-13-00-00-92	V8.1.0-20220222	No	照	+
2	NVR	192.168.1.55	80	9000	16	28-36-13-00-23-87	V8.2.3-20221214	activated	照	+
3	IPC	192.168.100.86	80	9000	1	00-23-63-9E-2E-82	V40.45.8.2.3_221012	activated	照	+
4	IPC	192.168.100.96	80	9000	1	00-23-63-55-80-67	V20.55.6.0_200722	No	照	+
5	IPC	192.168.100.137	80	9000	1	00-23-63-AD-D8-AD	V20.55.6.0_200722	No	照	+
6	IPC	192.168.100.81	80	9000	1	00-23-63-78-C1-66	V12.45.5.0_190926	No	照	+
7	IPC	192.168.100.232	80	9000	1	00-23-63-81-4F-52	V12.45.6.0_200513	No	照	+
8	IPC	192.168.100.109	80	9000	1	00-23-63-9D-E7-C8	V35.45.8.2.2_220716	activated	照	+
9	IPC	192.168.100.171	80	9000	1	00-23-63-6E-98-A6	V4.41.5.2_200301	No	照	+
10	IPC	192.168.100.122	80	9000	1	00-23-63-81-4F-5A	V13.45.6.0_210108	No	照	+
11	NVR	192.168.100.197	80	9000	8	28-36-13-00-05-85	V8.2.2-20220920	activated	照	+
12	NVR	192.168.100.133	80	9000	4	28-36-13-00-02-81	V8.2.2-20220509	No	照	+
13	DVR	192.168.100.131	80	9000	40	00-23-63-97-46-A4	V8.2.3-20221215	activated	照	+
14	DVR	192.168.100.83	80	9000	10	28-36-13-00-1C-FE	V8.2.3-20221014	activated	照	+
15	DVR	192.168.100.61	80	9000	10	28-36-13-00-00-4D	V8.2.2-20220818	activated	照	+
16	DVR	192.168.100.103	80	9000	36	28-36-13-00-0C-87	V8.1.0-20210909	No	照	+
17	IPC	192.168.100.88	80	9000	1	00-23-63-81-4E-3D	V10.35.7.0_201026	No	照	+
18	IPC	192.168.100.100	80	9000	1	00-23-63-90-13-E4	V21.45.7.1_210629	No	照	+
19	IPC	192.168.100.169	80	9000	1	28-36-13-00-45-52	V21.45.8.2.3_220714	activated	照	+
20	IPC	192.168.100.77	80	9000	1	00-23-63-8D-41-A8	V21.45.8.2.3_221102	activated	照	+
21	IPC	192.168.100.155	80	9000	1	28-36-13-00-38-50	V21.45.8.2.3_220714	inactivated	照	+
22	IPC	192.168.100.196	80	9000	1	00-23-63-90-31-E8	V21.45.7.1_210629	No	照	+
23	IPC	192.168.100.156	80	9000	1	28-36-13-00-88-C0	V21.45.8.2.3_221102	activated	照	+
24	IPC	192.168.100.63	80	9000	1	00-23-63-8D-40-40	V21.45.8.2.3_221102	activated	照	+
25	IPC	192.168.100.102	80	9000	1	00-23-63-8F-46-D0	V26.34.8.2.3_221102	activated	照	+
26	IPC	192.168.100.175	80	9000	1	28-36-13-00-31-89	V26.34.8.2.3_221102	activated	照	+
27	IPC	192.168.100.187	80	9000	1	28-36-13-00-8A-63	V31.35.8.2.3_221101	activated	照	+

Figure 3-3-2 Search Results

3.5 Search for Devices Based on Other Protocols

By modifying the protocol of the device through CMSONE, devices based on other protocols can be found by search.

Step 1: In the “Device Management” interface, click on “Auto Search”. The system pops up an interface, as shown in Figure 3-4-1 below.

No.	Device Type	IP	Port	Media Port	Size of Chas	Mac address	Version	Active state	QR CODE	Directory
1	NWR	192.168.1.78	80	9000	16	28-36-13-00-00-92	V8.2.3-20220222	No	QR	Dir
2	NWR	192.168.1.55	80	9000	16	28-36-13-00-23-87	V8.2.3-20221214	activated	QR	Dir
3	IPC	192.168.100.85	80	9000	1	00-23-63-9C-2E-82	V40.45.8.2.3_221102	activated	QR	Dir
4	IPC	192.168.100.96	80	9000	1	00-23-63-96-80-67	V20.55.6.0_200722	No	QR	Dir
5	IPC	192.168.100.137	80	9000	1	00-23-63-AD-D8-AD	V20.55.6.0_200722	No	QR	Dir
6	IPC	192.168.100.81	80	9000	1	00-23-63-78-C1-66	V12.45.5.0_190926	No	QR	Dir
7	IPC	192.168.100.232	80	9000	1	00-23-63-81-4F-32	V12.45.6.0_200513	No	QR	Dir
8	IPC	192.168.100.109	80	9000	1	00-23-63-9D-E7-C8	V15.45.8.2.3_220716	activated	QR	Dir
9	IPC	192.168.100.171	80	9000	1	00-23-63-6E-98-A6	V4.41.5.2_200301	No	QR	Dir
10	IPC	192.168.100.122	80	9000	1	00-23-63-81-4F-5A	V12.45.6.0_210108	No	QR	Dir
11	NWR	192.168.100.197	80	9000	8	28-36-13-00-05-85	V8.2.3-20220920	activated	QR	Dir
12	NWR	192.168.100.133	80	9000	4	28-36-13-00-02-E1	V8.2.3-20220509	No	QR	Dir
13	DVR	192.168.100.131	80	9000	40	00-23-63-97-46-A4	V8.2.3-20221215	activated	QR	Dir
14	DVR	192.168.100.83	80	9000	10	28-36-13-00-1C-FE	V8.2.3-20221014	activated	QR	Dir
15	DVR	192.168.100.41	80	9000	10	28-36-13-00-00-4D	V8.2.3-20220818	activated	QR	Dir
16	DVR	192.168.100.103	80	9000	36	28-36-13-00-0C-87	V8.1.0-20210909	No	QR	Dir
17	IPC	192.168.100.88	80	9000	1	00-23-63-41-4E-30	V10.35.7.0_201026	No	QR	Dir
18	IPC	192.168.100.100	80	9000	1	00-23-63-90-13-E4	V21.45.7.1_210629	No	QR	Dir
19	IPC	192.168.100.169	80	9000	1	28-36-13-00-45-52	V21.45.8.2.3_220714	activated	QR	Dir
20	IPC	192.168.100.77	80	9000	1	00-23-63-8D-41-A8	V21.45.8.2.3_221102	activated	QR	Dir
21	IPC	192.168.100.155	80	9000	1	28-36-13-00-3B-50	V21.45.8.2.3_220714	Inactivated	QR	Dir
22	IPC	192.168.100.196	80	9000	1	00-23-63-90-31-E8	V21.45.7.1_210629	No	QR	Dir
23	IPC	192.168.100.156	80	9000	1	28-36-13-00-88-C9	V21.45.8.2.3_221102	activated	QR	Dir
24	IPC	192.168.100.63	80	9000	1	00-23-63-8D-40-40	V21.45.8.2.3_221102	activated	QR	Dir
25	IPC	192.168.100.102	80	9000	1	00-23-63-8F-46-D0	V26.34.8.2.3_221102	activated	QR	Dir
26	IPC	192.168.100.175	80	9000	1	28-36-13-00-31-89	V26.34.8.2.3_221102	activated	QR	Dir
27	IPC	192.168.100.197	80	9000	1	28-36-13-00-8A-63	V31.35.8.2.3_221101	activated	QR	Dir

Figure 3-4-1 Search Interface

Step 2: In the drop-down box `protocol type: Private`, choose another protocol, and click on “Search”. The system will display the search results, as shown in Figure 3-4-2.

No.	Device Type	IP	Port	Media Port	Size of Chas	Mac address	Version	Active state	QR CODE	Directory
1		192.168.100.59	80	0	1	A6-2E-EC-23-09-28		No	QR	Dir
2		192.168.100.58	80	0	1	A6-62-70-74-98-98		No	QR	Dir
3	IPC	192.168.100.76	80	0	1	80-75-39-4D-02-0E		No	QR	Dir
4	IPC	192.168.100.154	80	0	1	8C-76-88-61-7D-82		No	QR	Dir
5	HeroSpeed	192.168.100.123	80	0	1	2C-6F-51-21-1A-82		No	QR	Dir
6	IPC	192.168.100.81	80	0	1	00-23-63-78-C1-66		No	QR	Dir
7	IPC	192.168.100.109	80	0	1	00-23-63-9D-E7-C8		No	QR	Dir
8	IPC	192.168.100.150	80	0	1	00-23-63-8F-46-D0		No	QR	Dir
9	IPC	192.168.100.102	80	0	1	00-23-63-8F-46-D0		No	QR	Dir
10	IPC	192.168.100.155	80	0	1	28-36-13-00-3B-50		No	QR	Dir
11	IPC	192.168.100.232	80	0	1	00-23-63-81-4F-32		No	QR	Dir
12	IPC	192.168.100.169	80	0	1	28-36-13-00-45-52		No	QR	Dir
13	IPC	192.168.100.100	80	0	1	00-23-63-90-13-E4		No	QR	Dir
14	IPC	192.168.100.156	80	0	1	28-36-13-00-88-C9		No	QR	Dir
15	IPC	192.168.100.77	80	0	1	00-23-63-8D-41-A8		No	QR	Dir
16	IPC	192.168.100.122	80	0	1	00-23-63-81-4F-5A		No	QR	Dir
17	IPC	192.168.100.171	80	0	1	00-23-63-6E-98-A6		No	QR	Dir
18	IPC	192.168.100.145	80	0	1	28-36-12-00-13-41		No	QR	Dir
19	IPC	192.168.100.196	80	0	1	00-23-63-90-31-E8		No	QR	Dir
20	IPC	192.168.100.199	80	0	1	28-36-13-00-93-25		No	QR	Dir
21	IPC	192.168.100.181	80	0	1	00-23-63-8E-F8-02		No	QR	Dir
22	IPC	192.168.100.52	80	0	1	28-36-13-00-69-81		No	QR	Dir
23	IPC	192.168.100.96	80	0	1	00-23-63-96-80-67		No	QR	Dir
24	IPC	192.168.100.86	80	0	1	00-23-63-9C-2E-82		No	QR	Dir
25	IPC	192.168.100.137	80	0	1	00-23-63-AD-D8-AD		No	QR	Dir
26	IPC	192.168.100.175	80	0	1	28-36-13-00-31-89		No	QR	Dir
27	IPC	192.168.100.88	80	0	1	00-23-63-81-4E-30		No	QR	Dir


Figure 3-4-2 Search Results

Step 3: Add the desired device. See “3.1 Add Device” for more details.

3.6 Remove Device

Any added device which is no longer required should be removed. A single or more devices can be removed.

(1) Remove a single device

Step 1: In the Device Management interface, click "  " behind the target device in the list. The system will pop up a dialog box, as shown in Figure 3-5-1.

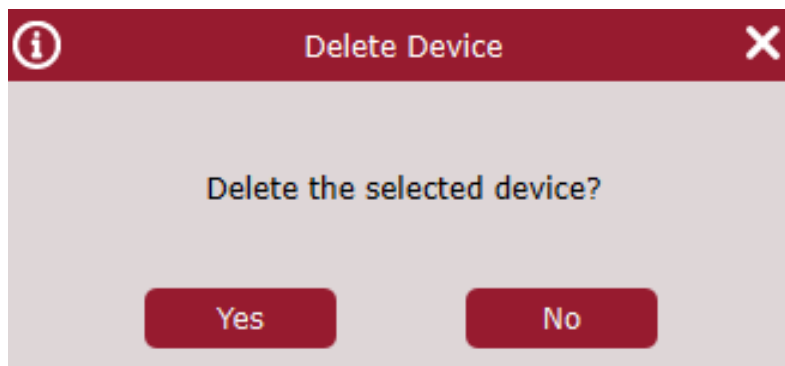



Figure 3-5-1 Remove Device

Step 2: Click "Yes" to remove the device.

- Click on "No" to cancel the operation.

(2) Batch removal

- **Step 1:** In the Device Management interface, check the check-box in front of the device you want to remove.
- **Step 2:** Click "  " at the upper right corner, and the system will pop up a dialog box, as shown in Figure 3-4.
- **Step 3:** Click "Yes" to remove the selected device.
Click on "No" to cancel the operation.

Chapter 4 Preview

After adding a device in CMSONE, enter the preview interface to browse the video in real time.

4.1 Real-Time Preview

Local video recording, screen-shot, voice call, zoom-in and sequential view are available during real-time view of video collected by camera.

(1) Enable Preview

Preview is enabled in the following ways:

- Select preview window, double-click the target device in device list area.
- Drag the target device from the list to preview window.
- Right-click on the device group and choose to open device preview window.

Notes:

If a preview is enabled, all cameras under that view can be previewed simultaneously. A preview screen is shown in Figure 4-1-1 below

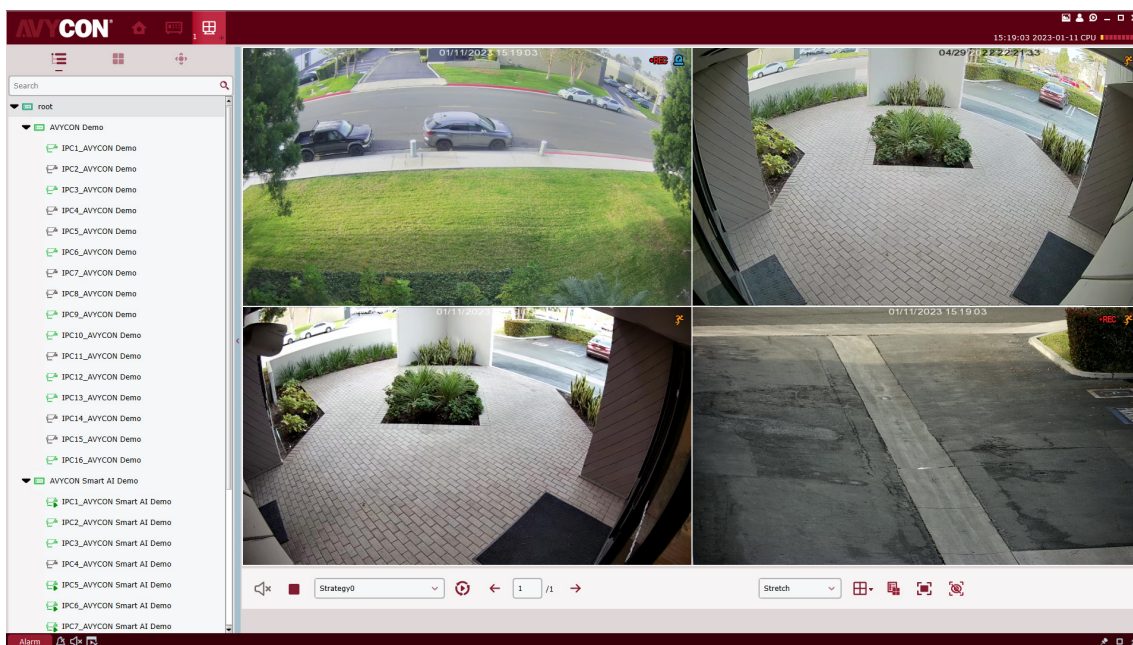




















Figure 4-1-1 Preview Interface







Click "+" in the list above preview to add up to four preview interfaces so that different previews for different devices will be added for better monitoring performance.


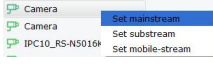
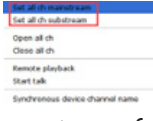

(2) Preview Operation

See Table 4-2 for the operations available in preview

SN	Name	Description	Operation
1	Manual Recording	Save Manual Records Locally	<p>Select a video window with preview enabled, click on  in the window or right click on  START RECORDING to start recording, and then click on  or right click on  STOP RECORDING again to stop recording.</p> <p>Notes: You can set the path where the video is saved under Configuration area > System Config.</p>
2	Manual Screen-shot	Capture a Screenshot Manually	<p>Select a video window with preview enabled, click on  in the window or right click on  CAPTURE to capture a screen-shot manually.</p> <p>Notes: You can set the path where the screen-shot is saved under Configuration area > System Config.</p>
3	Voice Call in Device Channel	Voice Call is Available in Device Channel	<p>Select a video window with preview enabled, click on  in the window or right click on  START TALK to start voice call, and then click on  or right click on  STOP TALK again to stop the call.</p> <p>Notes: Voice call can be conducted between client and IPC connected to device channel.</p>

SN	Task	Description	Operation
4	Zoom-In	Zoom in on the Selected Area Video	Select a video window with preview enabled, click on  in the window and choose a target area by clicking on left mouse button and moving cursor to zoom in, and then click on  to cancel it.
5	Close a single window	Close a Channel Window	Right-click on the window you want to close  Stop Preview
6	Close all window	Close all Channel Windows for the Device	Right click on for the Close all CH device group to close all channels of the device.
7	Full Screen	Specify the Window Full-Screen	Select a video window with preview enabled, right click on  FULL SCREEN and then double click on the target window, or first double click on  FULL SCREEN the target window and then right click on to open it in full screen
8	Adjust Window Ratio	Adjust Frame Ratio	Choose STRETCH  at the lower right corner of the window to adjust frame ratio.
9	Specify Number of Windows	Specify Number of Windows Displayed in a Single Page	Choose   at the lower right corner of the window to specify number of windows.

SN	Task	Description	Operation
10	Frame Adjustment	Improve preview effect by adjusting brightness, contrast, saturation, and hue, without changing any image parameters, but naming the adjustment.	<ol style="list-style-type: none"> 1. Choose a video window with preview open and right-click on  VIDEO SETTING 2. The system will pop up "Video Setting" dialog box. 3. In the "Color" tab, adjust the color as necessary in Color , and change the name under Name .
11	Fish-eye View Mode	<p>It is available only for fish-eye device.</p> <p>The view mode varies depending on the installation mode of fish-eye device.</p> <p>View modes available for different installation modes.</p>	Select the video window with the preview open, right click on ,  FISH EYE and choose a desired view mode. See Section 12 Fish-Eye View Mode for more details.
12	Fish-eye Installation Mode	<p>It is available only for fish-eye device.</p> <p>Choose the installation mode as necessary for the device. The installation mode of fish-eye device includes  ceiling mounting), wall mounting and  floor mounting.</p>	Choose a video window with preview open and right-click on to  FISH EYE access fish-eye operations. Choose the installation mode as necessary for the device. See Section 12 Fish-Eye View Mode for more details.
13	Move to the previous page of channel window	When channel window is displayed across a number of pages, move to the previous page.	When channel window is displayed across a number of pages, right-click on  LAST SCREEN in any window to move to the previous page.

SN	Task	Description	Operation
14	Move to the next page of channel window	When channel window is displayed across a number of pages, move to and next page.	When channel window is displayed across a number of pages, right-click on  NEXT PAGE in any window to move to and next page.
15	Change channel code stream type	Available stream types include primary stream, sub-stream and mobile stream.	Right-click on the device channel and choose the target device, and then choose the desired code stream type.
16	Change channel code stream type	Available stream types include primary stream, sub-stream and mobile stream.	Right-click on  in the device list on the left to set primary stream, sub-stream or mobile-stream for the device.
17	Change channel code stream type	Available stream types include primary stream, sub-stream and mobile stream.	Right-click on  in the device group to change stream type for all channels of the device.
18	Remote Playback	The system allows user to go from device in pre-view interface to remote playback interface for playback of video	Choose a device in the device group and right-click on  to go to the remote playback interface for playback of video on the device.


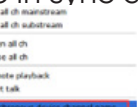
SN	Task	Description	Operation
19	Move to the next page of channel window	When channel window is displayed across a number of pages, move to and next page.	<p>Choose a device in the device group and right-click on  to start voice call on the device.</p> <p>Notes: Voice call can be conducted between client and the device.</p>
20	Synchronize device channel name	Any renamed device channel will be synchronized.	<p>Choose a device in sync device group and right-click on  to synchronize the renamed device channel.</p> <p>Notes: After a device channel is rename, click on it to display the channel name.</p>

Figure 3-3-2 Search Results

(3) Adjust number of monitoring windows



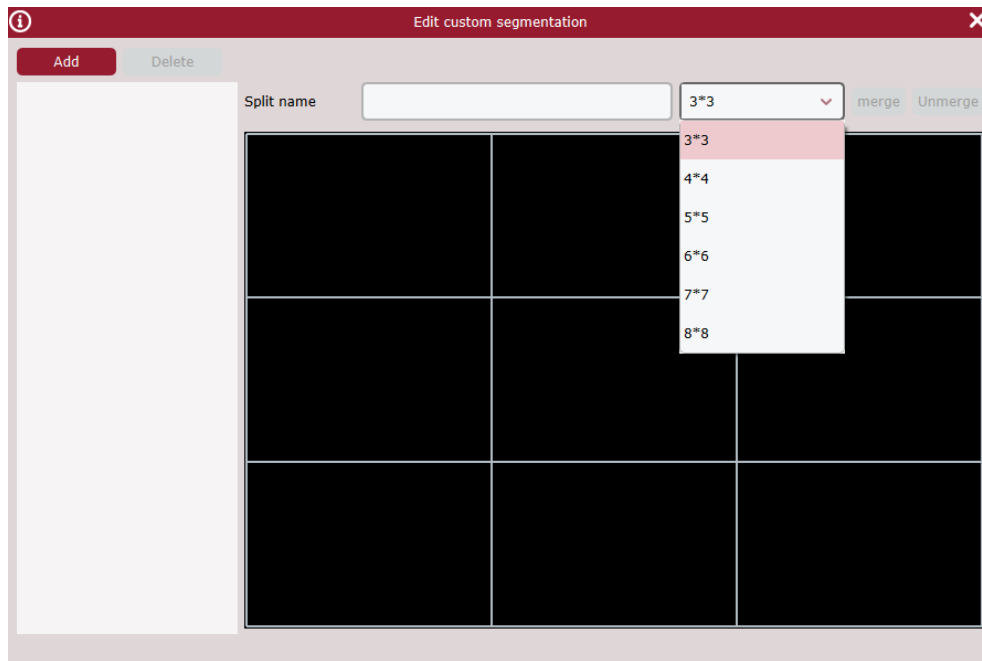
Click on  in the setting area to adjust the number of view windows, as shown in Figure 4-2.



Figure 4-2-2 Number of View Windows


Up to 128 channels can be displayed simultaneously.

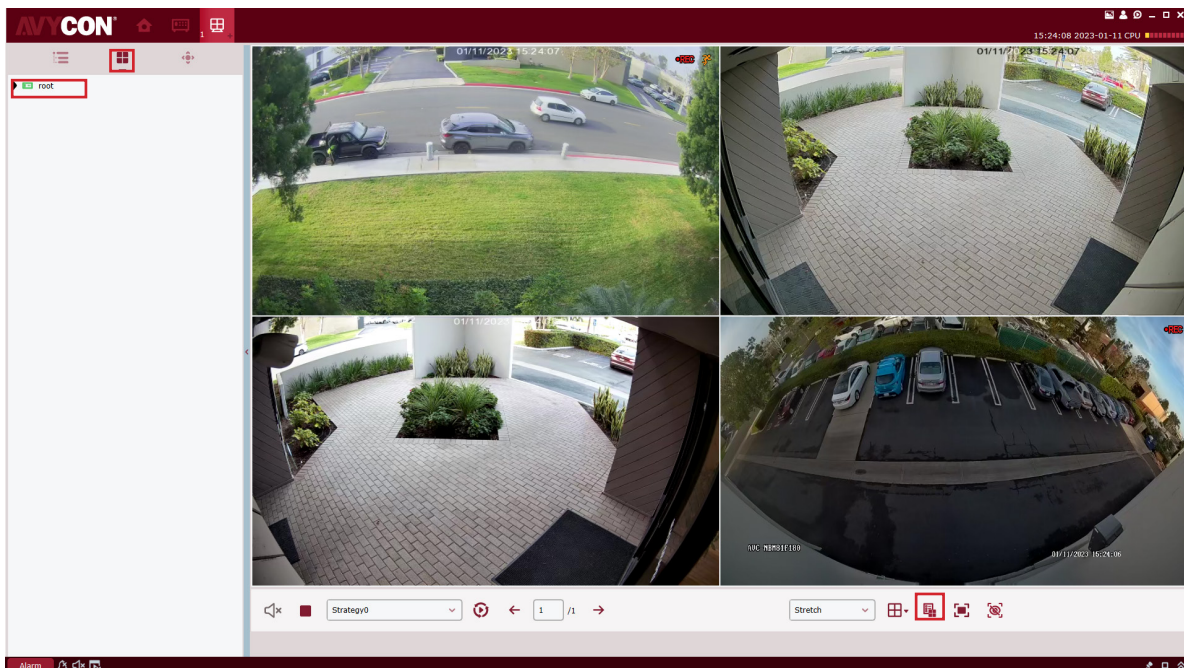
 Click on Edit to manually divide the monitoring area, as shown below.



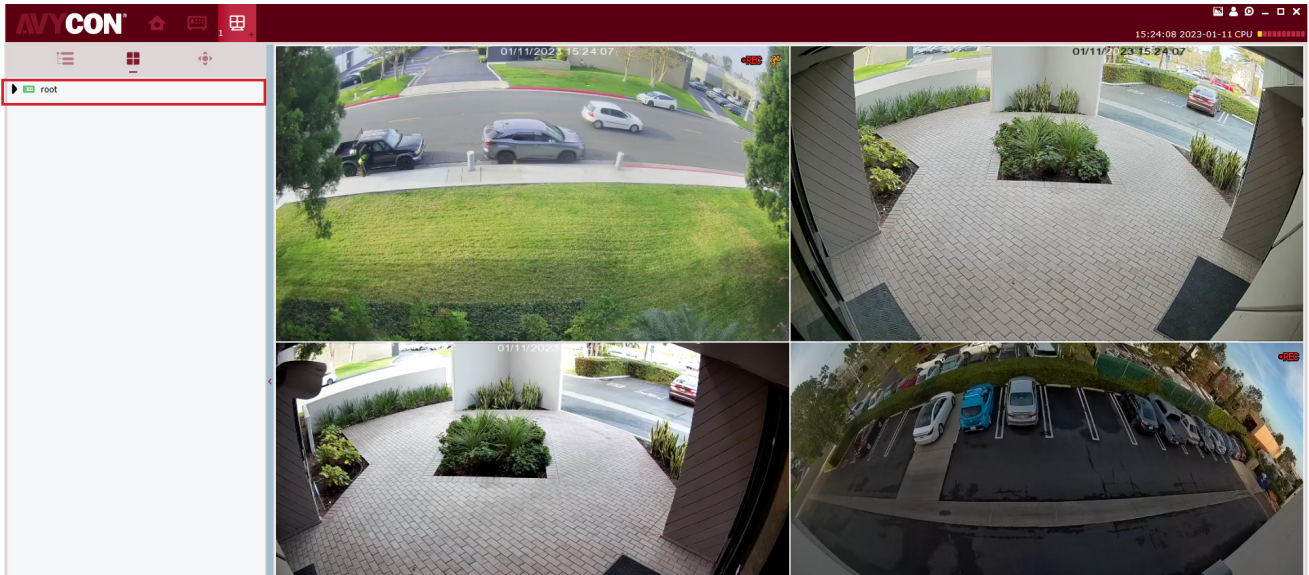
Click Add to add a custom channel display group (up to 5 groups are available), and set up to 8*864 channels for each group, or to merge several boxes together by clicking on Merge to display them in a large block diagram, or break it apart by clicking on Un-merge.

(4) Save View

Click on Save View  at the lower right corner to save the current preview, as shown below.

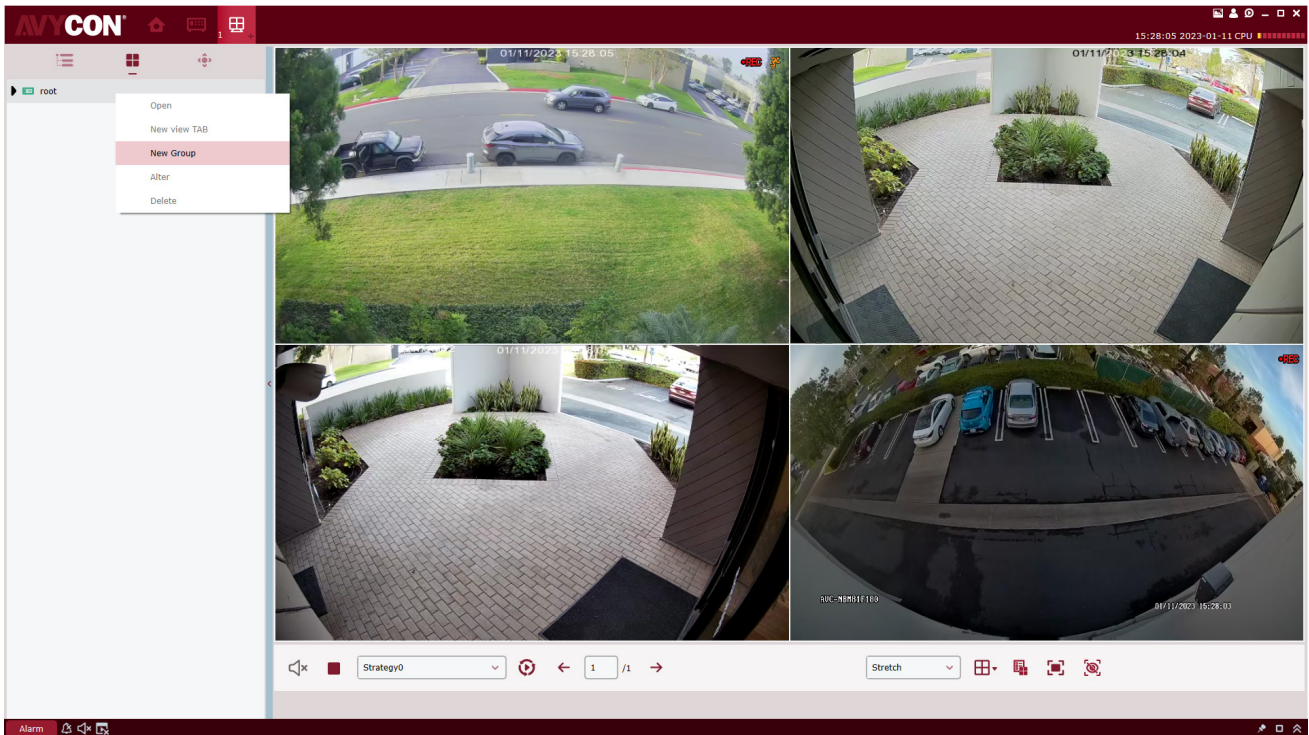


As shown below

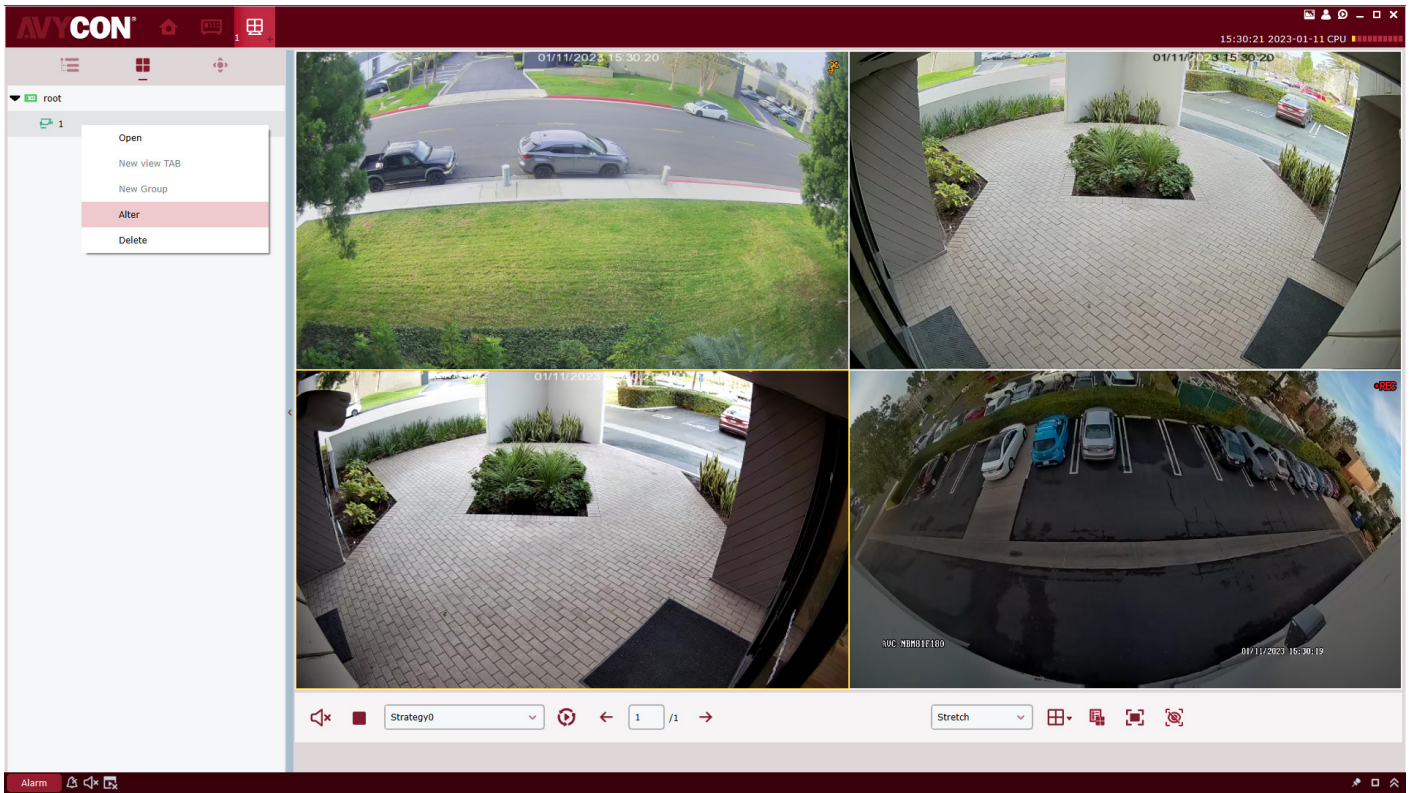


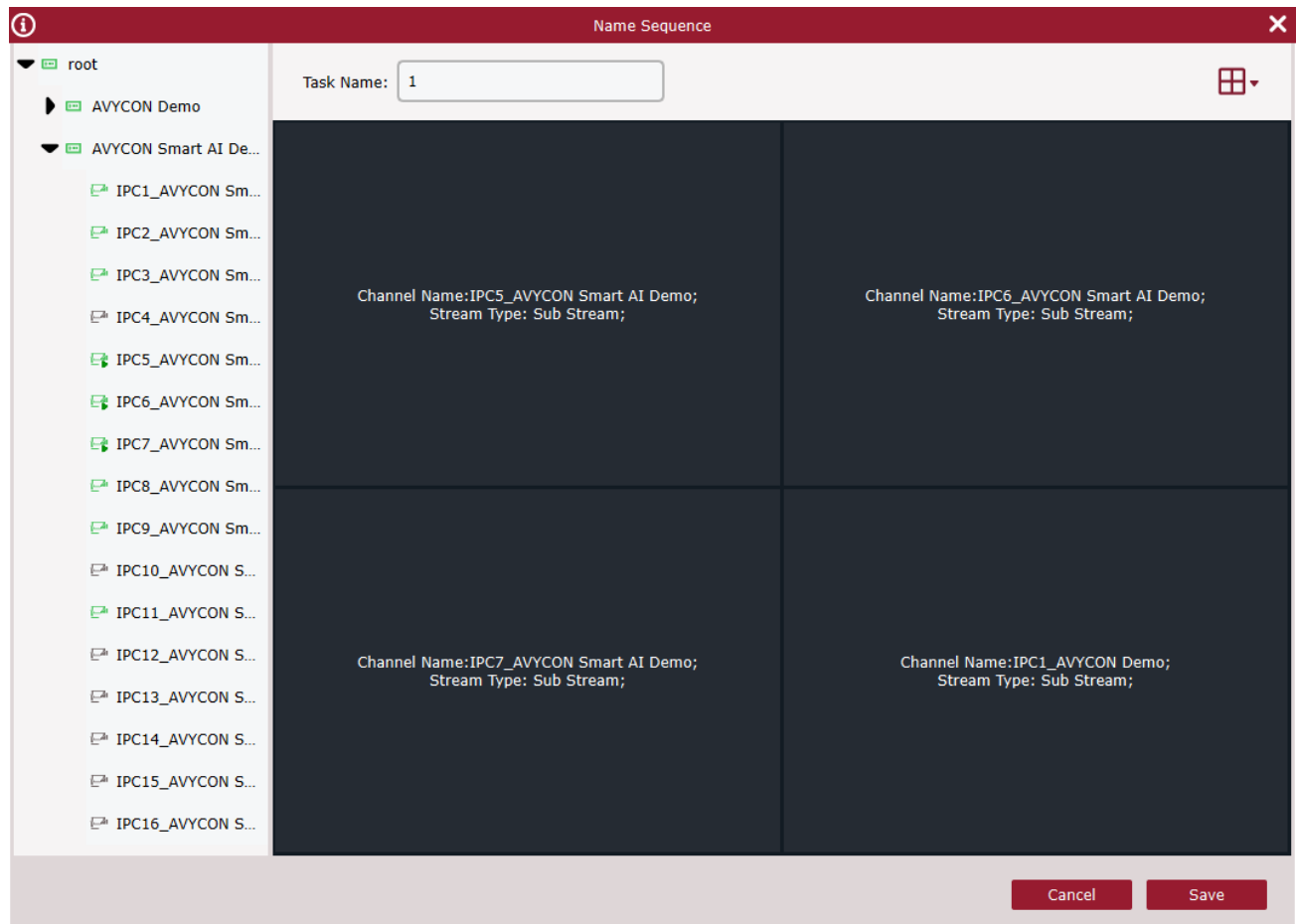
This function is used to save the monitoring channels focused on by user, and next time click the preview interface group "1" as shown in the figure above to pop up nine channels for easy view.


Besides the method above, user can also right-click on the target group and choose New Group to add a preview interface group, as shown below.



Any saved preview interface group can also be renamed or have its channels increased or reduced. Right-click on the preview interface group "1" and choose Alter to enter Change Settings page, as shown below.






User can drag the device channel into the channel box on the left, set the number of channels by clicking on  at the upper right corner, and rename preview interface group by clicking on Task Name. After finishing, click on Save to apply the changes.

Chapter 5 Dwell Plan

By configuring a Dwell plan, you can view all frames in sequence.

5.1 Configuration of Dwell Plan

Step 1: Choose "Dwell Setting" from the main menu, and the system will open Dwell Setting interface, as shown in Figure 5-1-1. By default, the system will create a Dwell plan named "Strategy0", which can be renamed by clicking on .

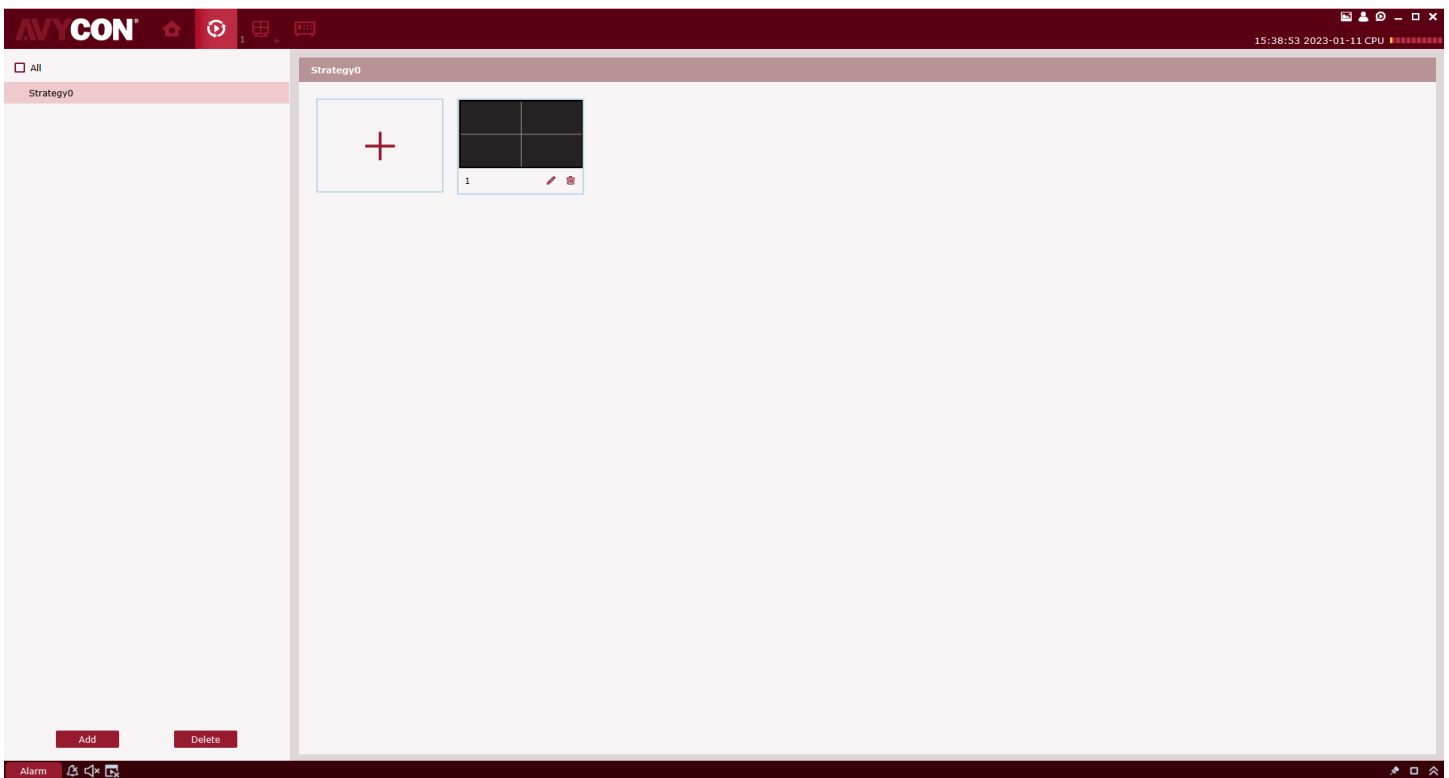



Figure 5-1-1 Dwell Plan

Step 2: Configure task information. (multi-task configuration is available)

(1) Click on **+** to open "Add Task" interface, as shown in Figure 5-1-2.

(2) Set "Task Name" and "Task Time", and specify the number of Dwell windows as desired by clicking on .

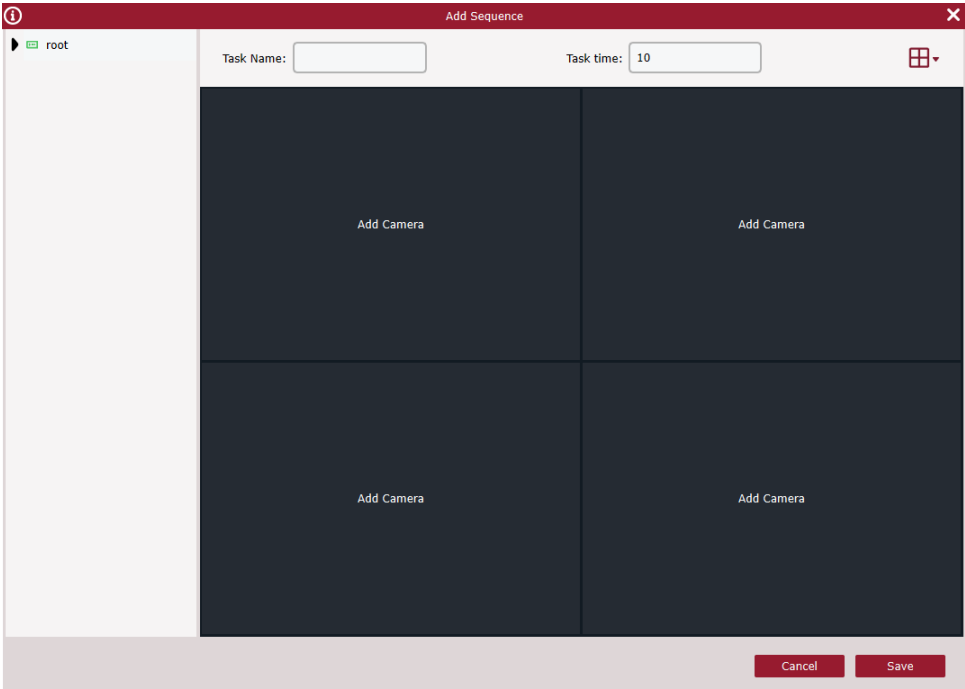


Figure 5-1-2 Adds Tasks to Dwell Plan

(3) Drag channels of the device into the video window in the sequence as required. These channels will be bound, as shown in Figure 5-1-3.

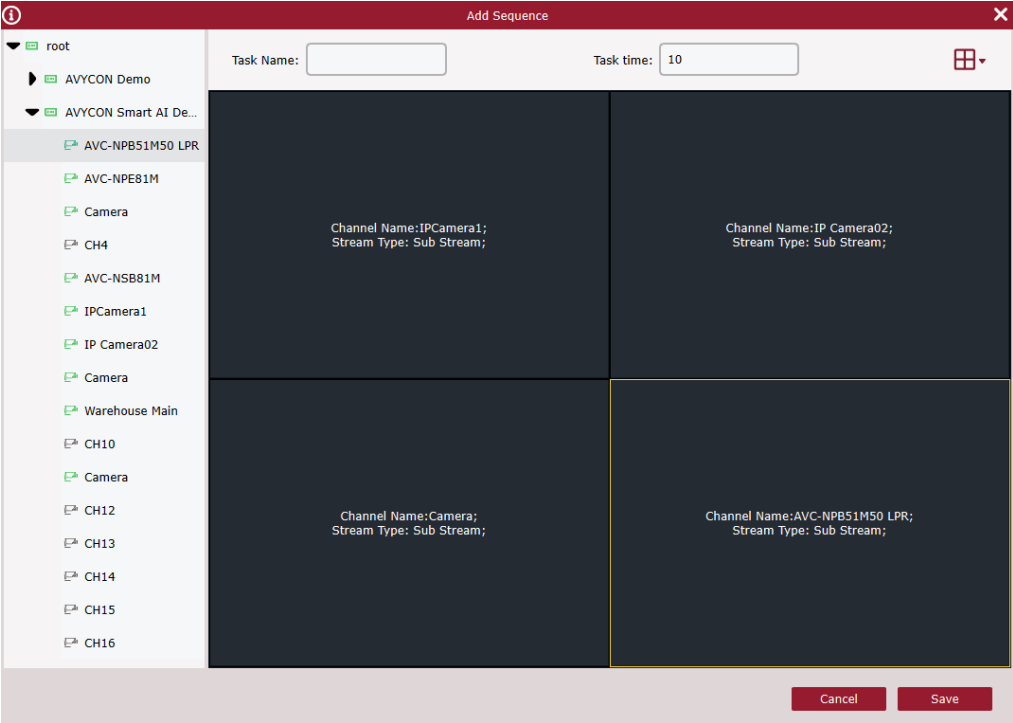


Figure 5-1-3 Channel Binding

(4) Click on "Save" to finish settings of Dwell plan, as shown in Figure 5-1-4.

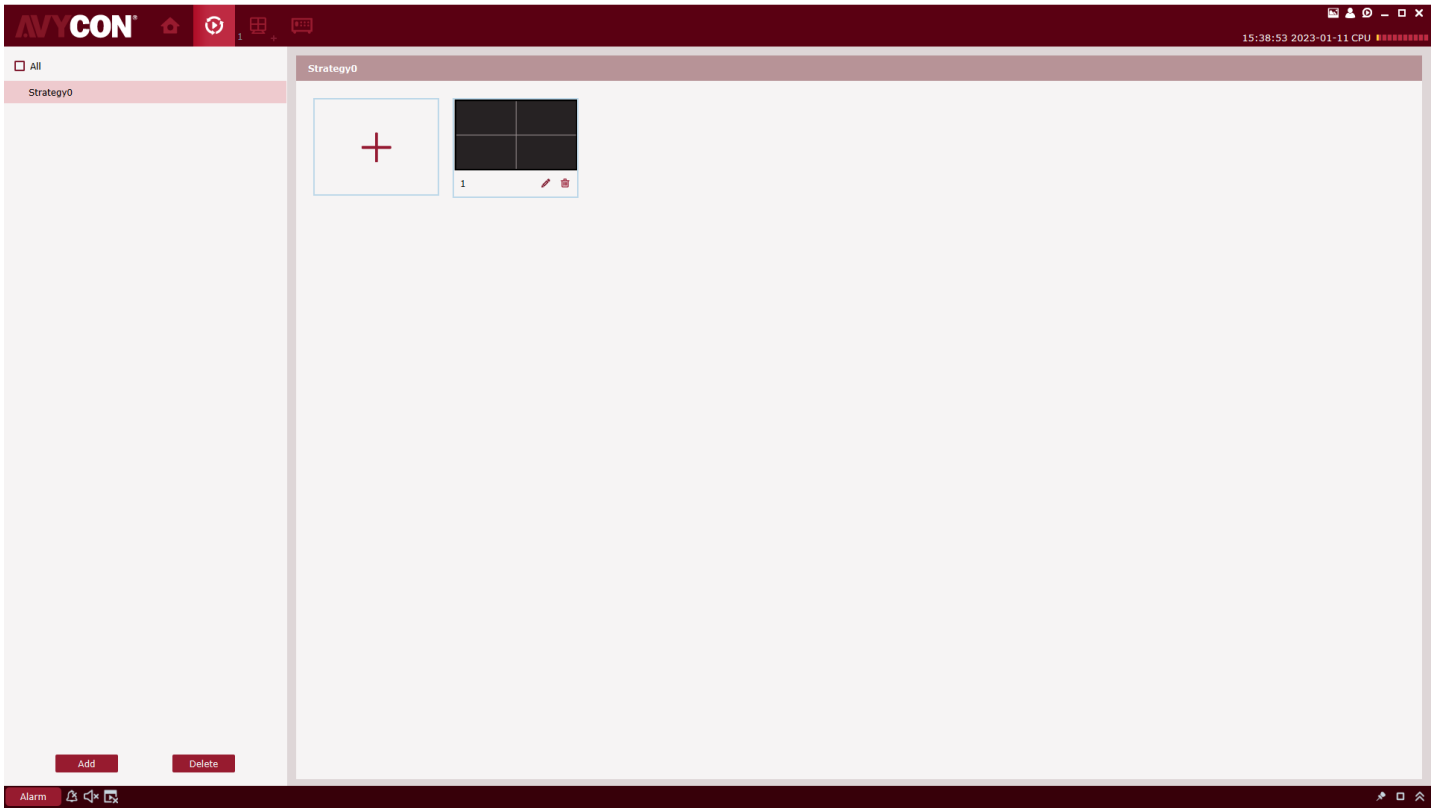


Figure 5-1-4 Finish Settings of Dwell Plan

5.2 Start Dwell

Step 1: Select "Main Window" in Main Menu, and the system will open the preview interface.

Step 2: Choose the Dwell plan at the bottom of the interface, as shown in .

Step 3: Click on  to start the Dwell plan.

Chapter 6 Remote Playback

6.1 Overview of Remote Playback

You can play back and export any video or picture from any device. Choose “Remote Playback” from the main menu to enter the Playback interface, as shown in Figure 6-1. See Table 6-1 for more details.

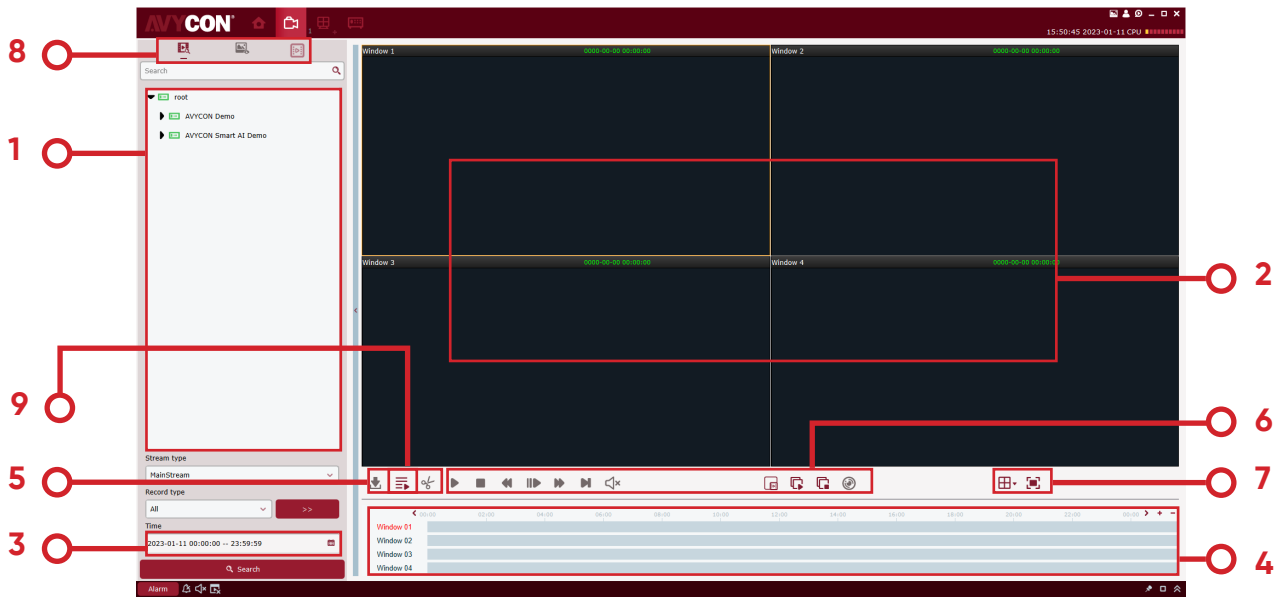





























Figure 6-1 Playback

SN	Task	Description	Operation
1	Device tree	The device group shows the groups and channels of the device. For settings of default device group, see “8. System Configuration”.	
2	Playback window	Video playback display area	Select a video window with preview enabled, click on  in the window or right click on  CAPTURE to capture a single screen-shot.

SN	Task	Description	Operation	
		Zoom in	Select a video window with preview enabled, and click on 	
		Stop Playing	Select a video window with preview enabled, click on  in the window or right click on  STOP PLAY	
		Recording	Select a video window with preview enabled, click on  in the window or right click on  START RECORD	
		Enable Fish-Eye	Select a video window with preview enabled, click on  in the window or right click on  Fish Eye (available only for fish-eye device.)	
		Full Screen Display	Click on  or right click on  FULL SCREEN	
3	Date & time of access	Date & time of playback or access	Set Search Conditions	<p>In the "Device" tab, choose target device or view, and choose Search for video or picture, and then specify target date (any date when video is available is marked at the lower right corner of it) and screen-shot type, code stream, start and end times, and whether to play or not by click on , and then click on "Search".</p> <ul style="list-style-type: none"> Screen-shot types include All, Common, I/O detection, Motion detection, Alarm shots, Intelligent screen-shot, Pedestrian detection and Manual screen-shot.
			Set Conditions for Search for Picture	

SN	Task	Description	Operation	
				<ul style="list-style-type: none"> The code stream types include primary stream and sub stream. The interval between start and end times must be less than one day.
4	Progress box	Date & time of playback or access	 :Increase accuracy of playback progress bar.  :Decrease accuracy of playback progress bar.	 :You can re-position the progress bar to jump to another display area
5	Cut and export	Cut or export video as necessary	Exported Recorded Video	See 6.3 Export video from device for more details.
			Cut video from device	
6	Playback Control Bar	Control how video is played back and volume of playback.		Play all channels back.
				Start playback of videos.
				Rewind and play the video.
				Pause playback.
				Stop playback.
				Playback by single frame.
				Fast-forward and play the video.
				Play back the video at low speed.
7	Window control	Set how the video window is displayed.		Select the desired display mode and number of video windows.
				Full-screen Display Mode.

SN	Task	Description	Operation	
8	Switchover	Toggle between video playback and slide show of images		Enter video playback interface
				Enter slide show interface. See 6.4 Slide show of images for more details.

6-1 Function Introduction of Playback Interface

6.2 Playback of Video from Device

Precondition:

Any video recorded by the device is available in any channel.


Operation procedure:

Step 1: Choose  tab from "Remote Playback" page.

Step 2: Choose target device channel from Device Group.

Step 3: Specify search conditions in settings. 

1. Choose video type and stream, and specify target time frame.
2. Click on "Search", and the system will display relevant information in the progress box.

Step 4: Choose a window with any video available, and click  on to start playback, as shown in Figure 6-2.

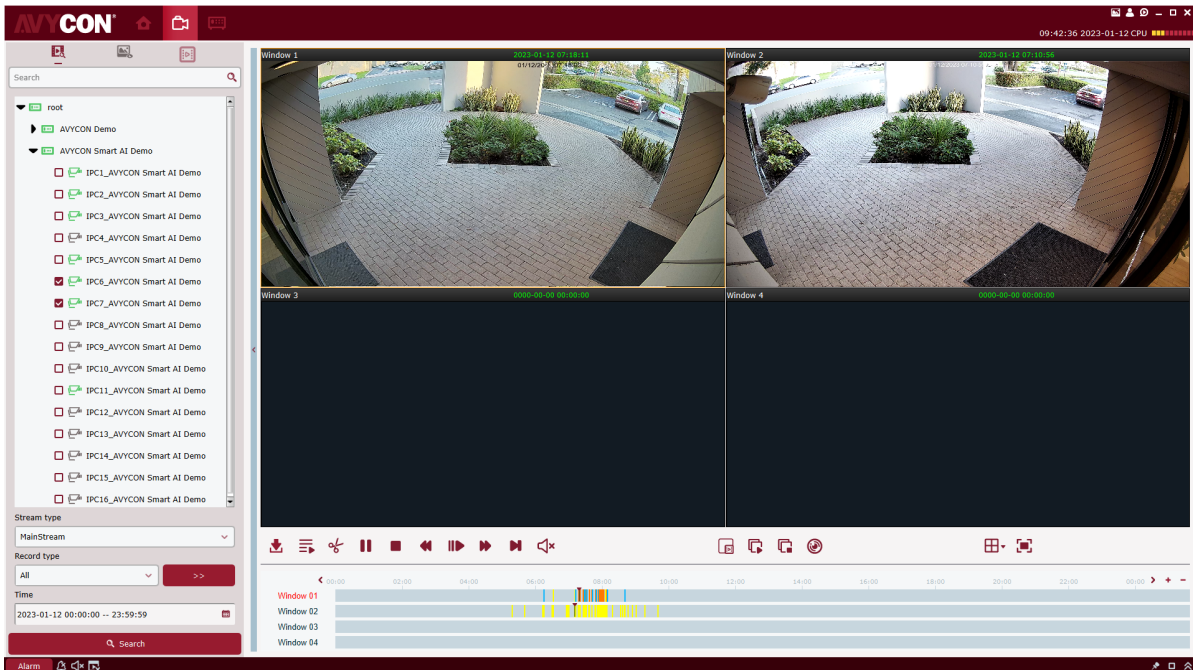


Figure 6-2 Playback of Video

Note:

By default, any remote video will be played back asynchronously. To enable synchronous playback, click on **Search Config** to enter the setting page, as shown in Figure 6-2-1.

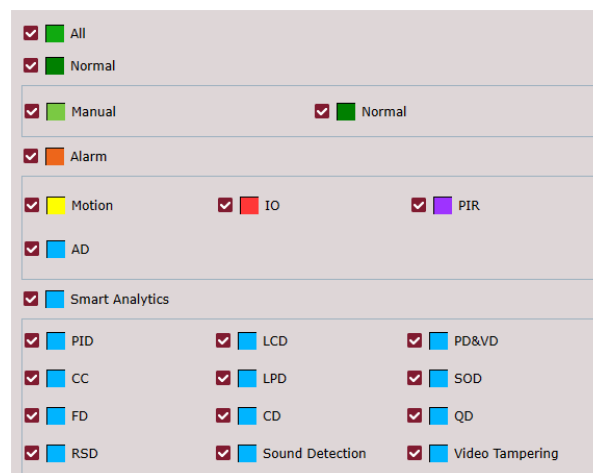


Figure 6-2-1 Playback Settings

Switch **Synchronous Playback** OFF on, to toggle remote playback to synchronous playback mode.

6.3 Export Recorded Video

Precondition:

Any video recorded by the device is available in any channel.

(1) Custom cut and download:



Step 1: Choose  tab from "Remote Playback" page.

Step 2: Choose target device channel from Device Group.

Step 3: Set search conditions in

1. Setup video type and stream, and specify target time frame.
2. Click on "Search", and the system will display relevant information in the progress box.

Step 4: Select a window where any recorded video is available, and click on  to start playback.

Step 5: Click on  and choose a segment of video in the progress box as required, and then click on  to confirm exporting it. The system will pop up a dialog box, as shown in Figure 6-3-1.

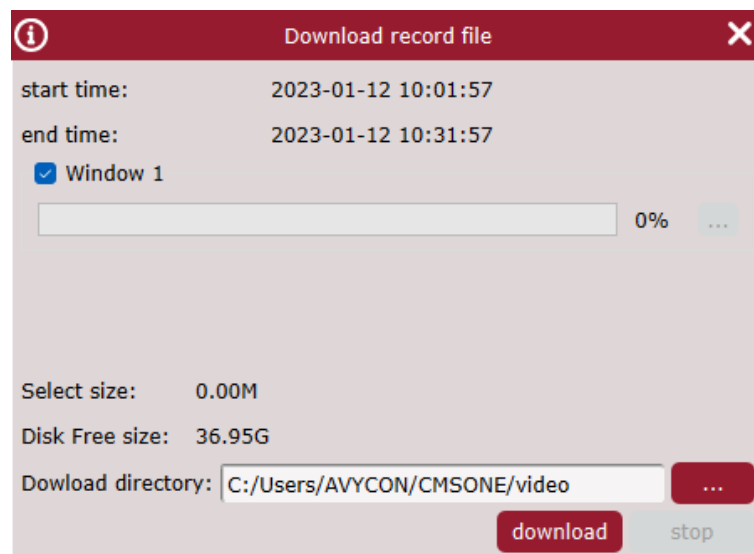


Figure 5-1-4 Finish Settings of Cruise Plan

Step 6: Choose the path where the exported video is saved. Click on "Download" and the system will pop up "Export progress", as shown in Figure 6-3-2.

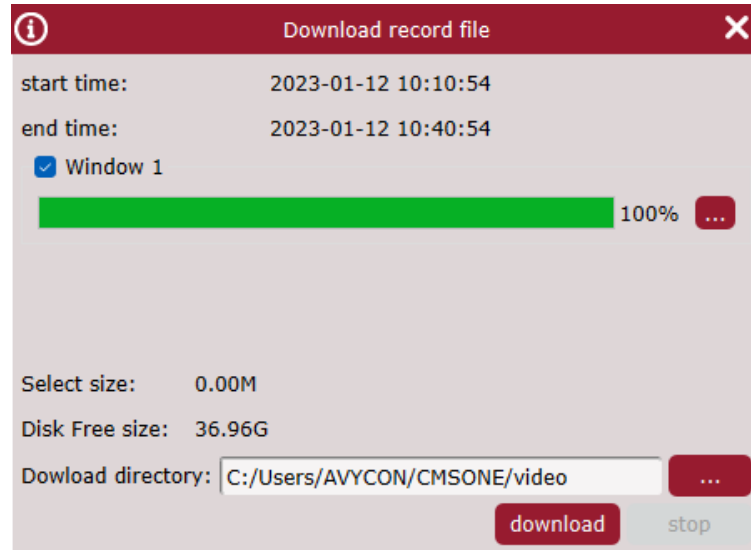



Figure 6-3-2 Export Progress

Step 7: The window will be closed when export process is finished.

(2) Download by date of files:

Step 1: Choose  tab from "Remote Playback" page.

Step 2: Choose target device channel from Device Group.

Step 3: Set search conditions in 

1. Setup video type and stream, and specify target time frame.
2. Click on "Search", and the system will display relevant information in the progress box.

Step 4: Select a window where any recorded video is available, and click on  to pop up all video clips available on the target date, as shown in Figure 6-3-3.

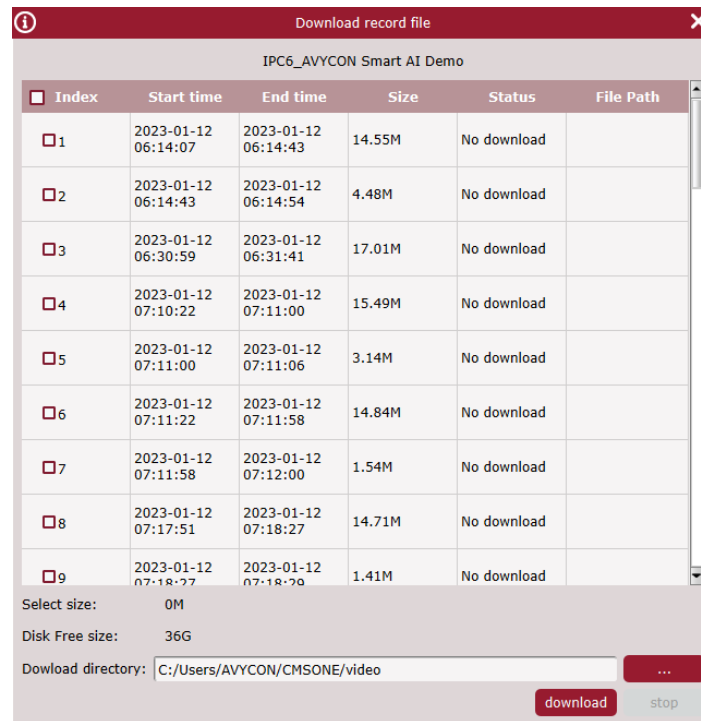
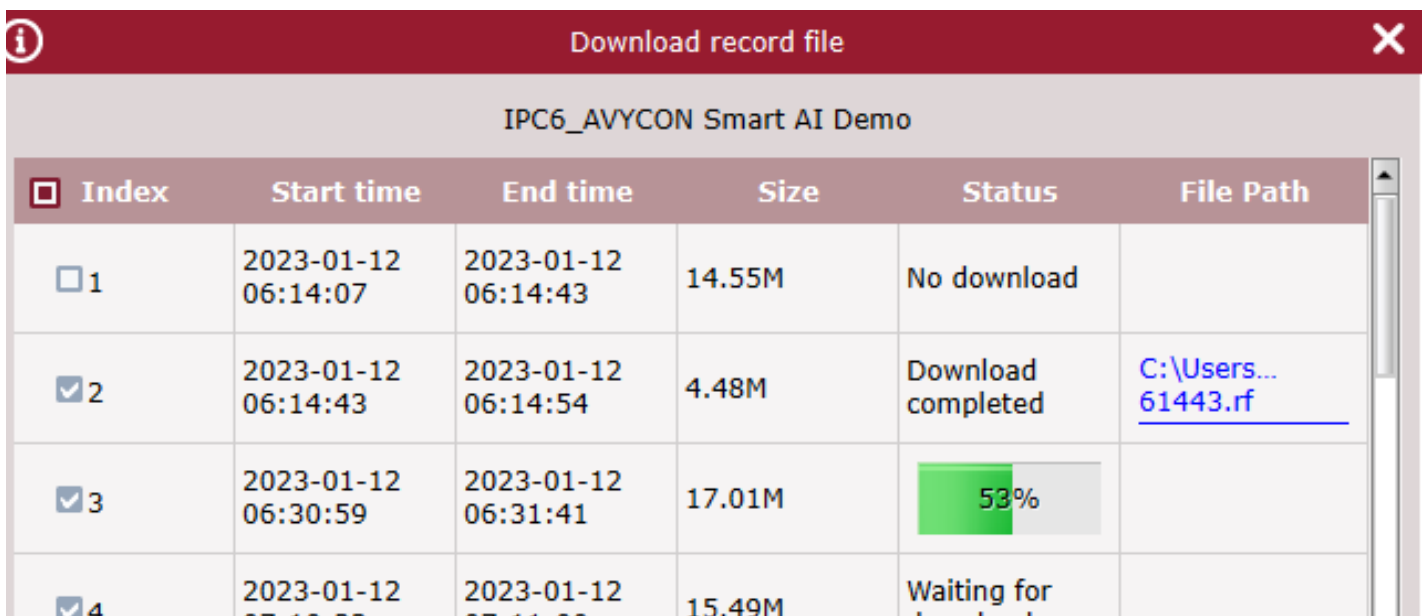


Figure 6-3-3 View Video Clip

Step 5: Check the target time frame for video to be downloaded and choose an export path. Click on "Download" and the system will pop up "Export progress", as shown in Figure 6-3-4.



The screenshot shows a dialog box titled "Download record file" with a close button (X) in the top right corner. The dialog contains a table with the following data:

Index	Start time	End time	Size	Status	File Path
<input checked="" type="checkbox"/> 1	2023-01-12 06:14:07	2023-01-12 06:14:43	14.55M	58%	
<input type="checkbox"/> 2	2023-01-12 06:14:43	2023-01-12 06:14:54	4.48M	No download	
<input type="checkbox"/> 3	2023-01-12 06:30:59	2023-01-12 06:31:41	17.01M	No download	
<input type="checkbox"/> 4	2023-01-12 07:10:22	2023-01-12 07:11:00	15.49M	No download	
<input type="checkbox"/> 5	2023-01-12 07:11:00	2023-01-12 07:11:06	3.14M	No download	
<input type="checkbox"/> 6	2023-01-12 07:11:22	2023-01-12 07:11:58	14.84M	No download	
<input type="checkbox"/> 7	2023-01-12 07:11:58	2023-01-12 07:12:00	1.54M	No download	
<input type="checkbox"/> 8	2023-01-12 07:17:51	2023-01-12 07:18:27	14.71M	No download	
<input type="checkbox"/> 9	2023-01-12 07:18:27	2023-01-12 07:18:29	1.41M	No download	

Below the table, there are several controls:

- Select size: 14.55M
- Disk Free size: 36G
- Download directory: C:/Users/Dave/CMSONE/video
- Buttons: "download" and "stop"

Figure 6-3-4 Export Progress

6.4 Slide show of Images from Device

Precondition:

Any video recorded by the device is available in any channel.

Operation procedure:

Step 1: Choose  tab from "Remote Playback" page.

Step 2: Choose target device channel from Device Group.

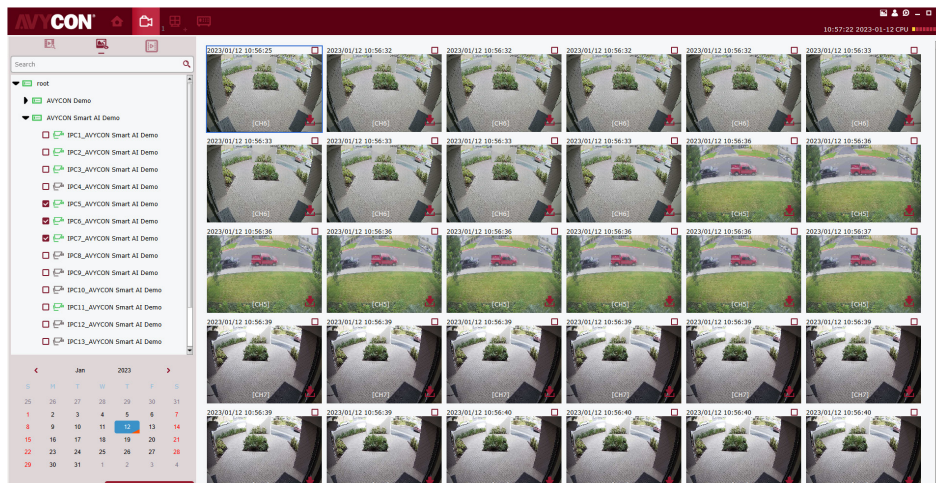


Step 3: Set search conditions in

1. Choose video type and stream, and specify target time frame.


2. Click on "Search", and the system will display picture information on the right side of "DeviceGroup", as 6-4-1

Figure 6-4-1 Images on Device

**Step 4:** Slide show.

Click on / 2 > to toggle between the pages.

6.5 Export Images from Device

On the slide show page, click on  at the bottom right corner of the target image, and the system will pop up a dialog box indicating successful export, as shown in Figure 6-5.

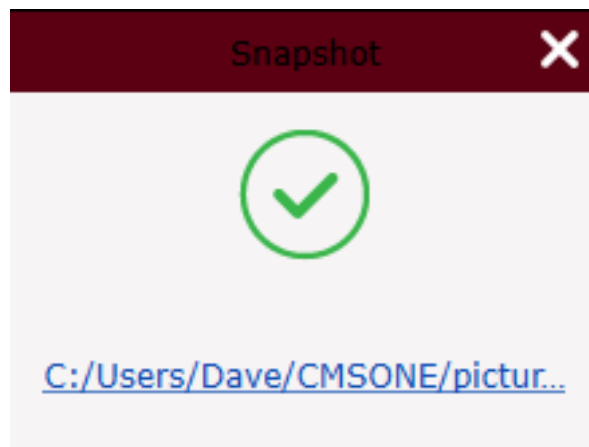


Figure 6-5 Export Images from Device

Note:

The path where exported image is saved can be set in "System Config" in the main menu.

Chapter 7 Search Logs

7.1 Search logs at client

Step 1: Select “Log Search” from the main menu and the system will display the log interface.

Step 2: Choose . The system displays the logs pages at the local client.

Step 3: Specify user, time frame, log type, and device as required for the search. Local logs at client include alarm logs, system logs, and operation logs.

Step 4: Click on “Search” to start the search. The system will display the search results, as shown in Figure 7-1.

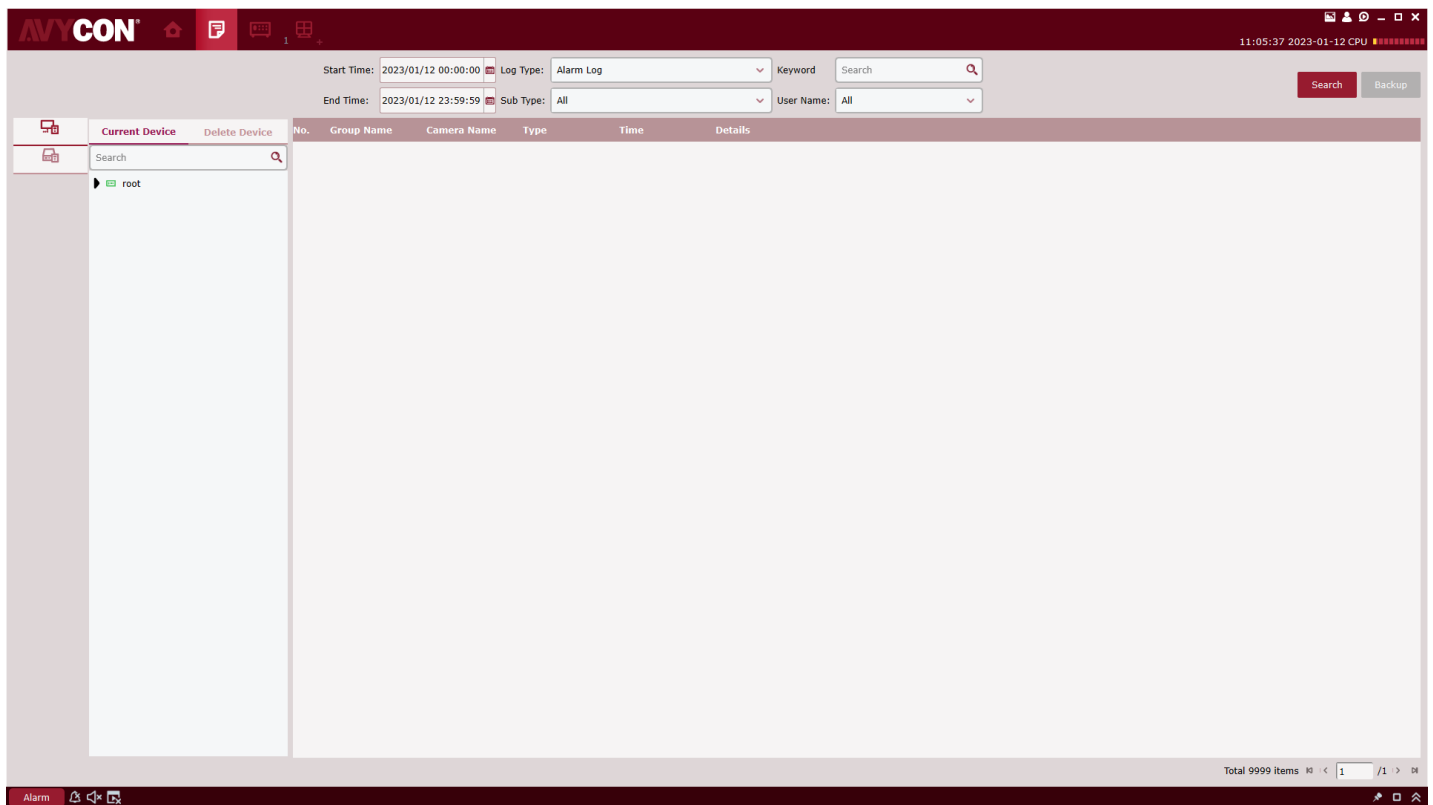


Figure 7-1 Search for Logs at Local Client

Note:

After the logs are searched successfully, you can click on “Backup” to export relevant logs.

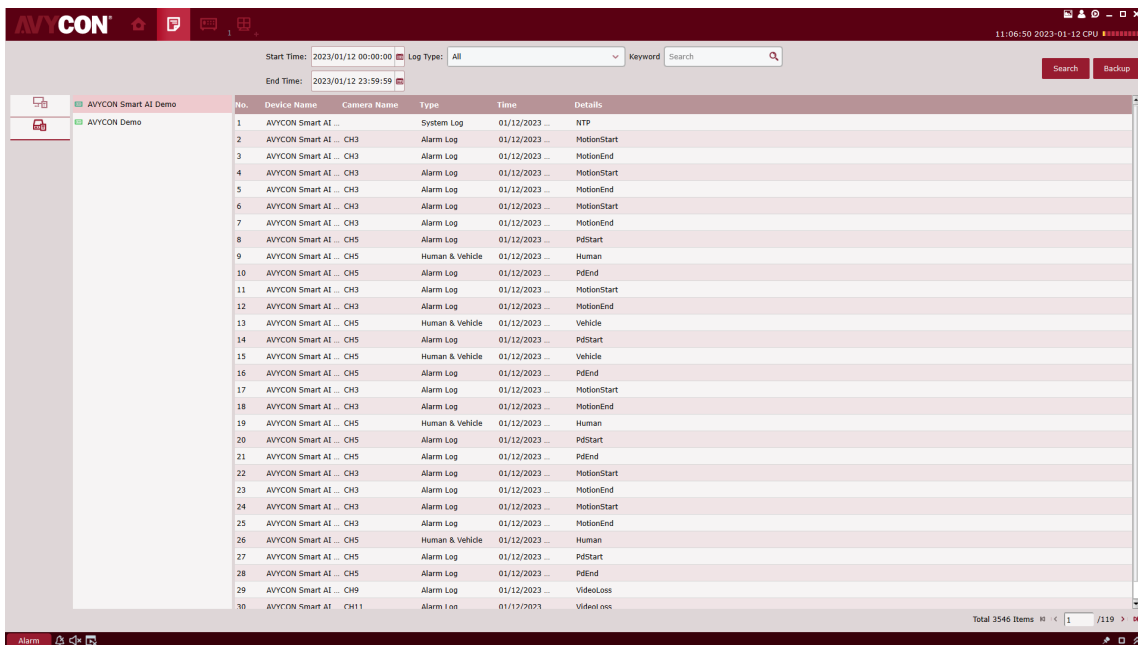
7.2 Search Logs at Remote Device

Step 1: Select “Log Search” in Main Menu, and the system will open the log interface.

Step 2: Choose . The system displays the Remote Log interface.

Step 3: Specify time frame, log type, and device as required for the search. Logs at remote device include system logs, configuration logs, alarm logs, user logs, video logs, data logs, network logs, and intelligent logs.

Step 4: Click on “Search” to start the search. The system will display the search results, as shown in Figure 7-2.



No.	Device Name	Camera Name	Type	Time	Details
1	AVYCON Smart AI ...		System Log	01/12/2023 ...	NTP
2	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionStart
3	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionEnd
4	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionStart
5	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionEnd
6	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionStart
7	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionEnd
8	AVYCON Smart AI ...	CH5	Alarm Log	01/12/2023 ...	PdStart
9	AVYCON Smart AI ...	CH5	Human & Vehicle	01/12/2023 ...	Human
10	AVYCON Smart AI ...	CH5	Alarm Log	01/12/2023 ...	PdEnd
11	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionStart
12	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionEnd
13	AVYCON Smart AI ...	CH5	Human & Vehicle	01/12/2023 ...	Vehicle
14	AVYCON Smart AI ...	CH5	Alarm Log	01/12/2023 ...	PdStart
15	AVYCON Smart AI ...	CH5	Human & Vehicle	01/12/2023 ...	Vehicle
16	AVYCON Smart AI ...	CH5	Alarm Log	01/12/2023 ...	PdEnd
17	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionStart
18	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionEnd
19	AVYCON Smart AI ...	CH5	Human & Vehicle	01/12/2023 ...	Human
20	AVYCON Smart AI ...	CH5	Alarm Log	01/12/2023 ...	PdStart
21	AVYCON Smart AI ...	CH5	Alarm Log	01/12/2023 ...	PdEnd
22	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionStart
23	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionEnd
24	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionStart
25	AVYCON Smart AI ...	CH3	Alarm Log	01/12/2023 ...	MotionEnd
26	AVYCON Smart AI ...	CH5	Human & Vehicle	01/12/2023 ...	Human
27	AVYCON Smart AI ...	CH5	Alarm Log	01/12/2023 ...	PdStart
28	AVYCON Smart AI ...	CH5	Alarm Log	01/12/2023 ...	PdEnd
29	AVYCON Smart AI ...	CH9	Alarm Log	01/12/2023 ...	VideoLoss
30	AVYCON Smart AI ...	CH11	Alarm Log	01/12/2023 ...	VideoLoss

Figure 7-2 Search for Remote Logs

Notes:

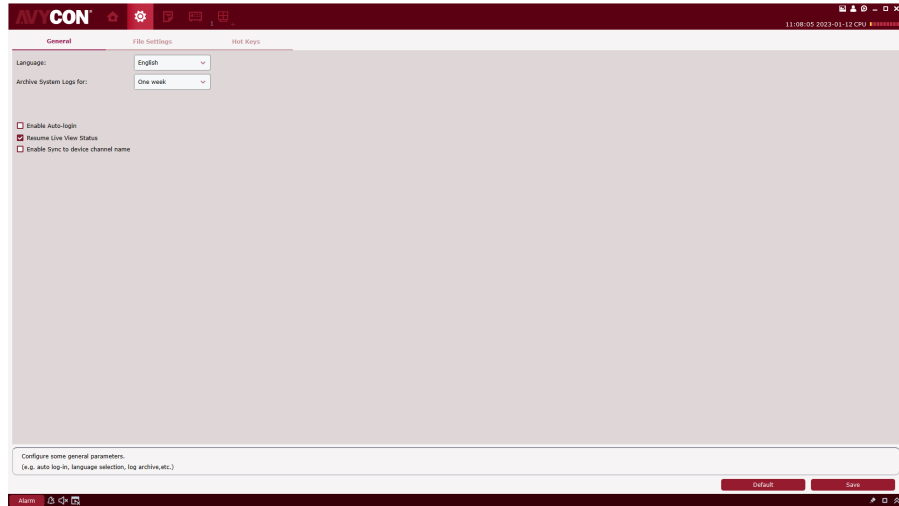
After the logs are searched successfully, you can click on “Backup” to export relevant remote logs.

Notes:

Up to 4,000 items of logs will be displayed, and can be searched by changing the time frame.

Chapter 8 System Configuration

System settings include general settings and file settings.



Step 1: Choose “System Config” from the main menu to display the system configuration interface, as shown in Figure 8-1.

Figure 8-1 System Configuration

Step 2: For more details on system configuration, refer to Table 8-1.

Parameter		Description
General	Language	English language is available
	Keep System Logs for	How long the system logs will be kept: <ul style="list-style-type: none"> • One week • Half a month • One month
	Enable Auto-Login	Whether automatic login is enabled
	Resume Live View Status	Whether to resume live view
	Enable Sync to device channel name	Whether to synchronize to the device channel

Parameter		Description
File Config	File type	In what type files are saved, including: <ul style="list-style-type: none"> • rf • AVI • mp4
	Max File Size	The maximum file size, including: <ul style="list-style-type: none"> • 1G • 2G • 3G • 4G
	Alarm when disk space is less than ___MB	The threshold for low disk space alarm. Check and set a threshold value.
	Path of Saved Pictures	Set the path where local image files are saved.
	Path of Saved Videos	Set the path where local video files are saved.
	Alarm Input	The path for alarm sound file
	Video Exception	The path for video exception sound file
	Motion Detection	The path for motion detection sound file

Table 8-1 Settings Configuration

Step 3: Click on "Save" to complete system setting.

Chapter 9 Account Management

You can add or delete user and modify authority in account management.

9.1 Add User

Step 1: Choose "Account Management" from the main menu to enter the Account Management interface, as shown in Figure 9-1-1.

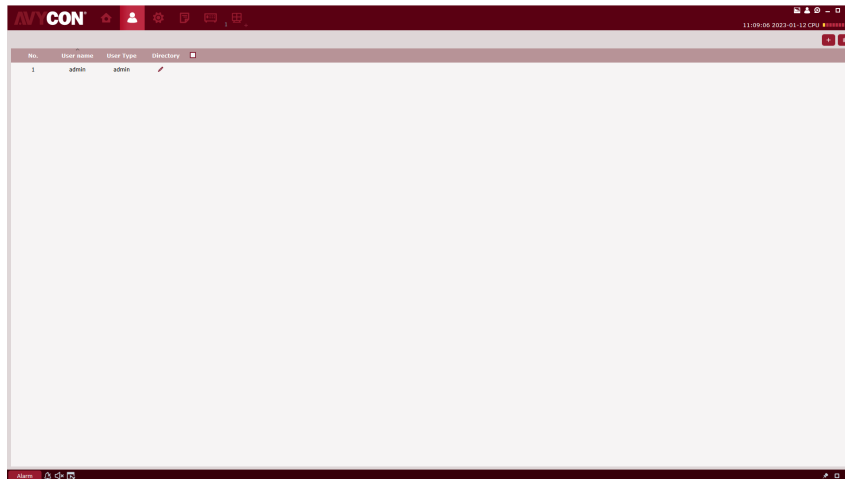


Figure 9-1-1 Account Management Interface

Step 2: Click on " + " at the upper right corner of the interface to add a new user, and the system pops up a dialog box as shown in Figure 9-1-2. See Table 9-1-1 for more details.

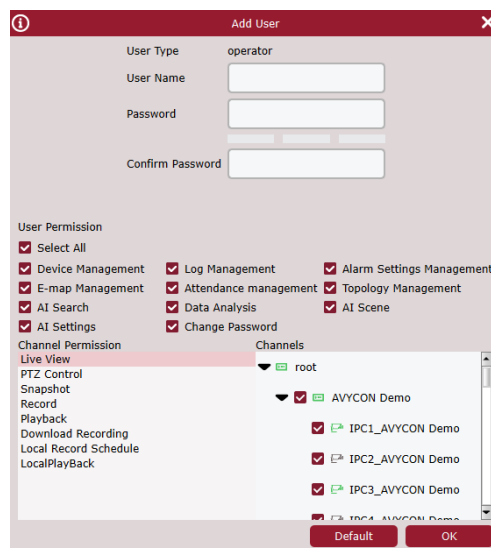


Figure 9-1-2 Add a New User

Parameter	Description
User Name	Used to uniquely identify a user, and mustn't be the same as any existing user name.
Password	User's password for login. Confirm password by entering it again.
Confirm Password	
Base Rights	Set user's basic authority as required, including: <ul style="list-style-type: none"> • Log management • Face management • Alarm configuration management • E- E-map management • Device management • Human and vehicle management

Table 9-1-1 Settings for New User

Step 3: Set the channel authority as required by checking related option at the right side for each authority. See Table 9-1-2 for more details.

Parameter	Description
Live View	Live preview
PTZ Control	Cradle head control
Capture	Screen-shot
Record	Recording
Playback	Remote playback
Download Record	Download video files
Local Record Schedule	Local video recording schedule
Local Playback	Local Playback

Table 9-1-2 Channel Authority

Step 4: After finishing setting (click Default to restore default settings), click on "OK" to save the new user and finish adding.

Note:

Admin has full authority, which cannot be changed or deleted. Any added user can be deleted and relevant authority can be changed.


9.2 Modify User

The screenshot shows a 'Modify User' dialog box with the following details:

- User Type:** admin
- User Name:** admin
- Current Password:** [masked]
- New Password:** [masked]
- Confirm Password:** [masked]
- User Permission:**
 - Select All
 - Device Management
 - E-map Management
 - AI Search
 - AI Settings
 - Log Management
 - Attendance management
 - Data Analysis
 - Change Password
 - Alarm Settings Management
 - Topology Management
 - AI Scene
- Channel Permission:**
 - Live View
 - PTZ Control
 - Snapshot
 - Record
 - Playback
 - Download Recording
 - Local Record Schedule
 - LocalPlayBack
- Channels:**
 - root
 - AVYCON Demo
 - IPC1_AVYCON Demo
 - IPC2_AVYCON Demo
 - IPC3_AVYCON Demo
 - IPC4_AVYCON Demo

- Buttons:** Default, OK



Figure 9-2 Modify User

Step 1: Click on  behind the target user name to pop up an interface as shown in Figure 9-2.

Step 2: Modify user authority, name or password.


Step 3: Click on OK to save modification

9.3 Delete User

Click on  behind the target user name to pop up a dialog box, and then click on OK. Or alternatively, check the box for users to be deleted, and then  click on at the upper right corner of the interface to delete them by batch.

Chapter 11 Login to Device

11.1 Login to device

Step 1: Double click on  CMSONE

Step 2: After the system displays the login interface, click on the “Device Login” option on the left to switch to the Device Login interface.

Step 3: Set parameters, as detailed in Table 2-3.

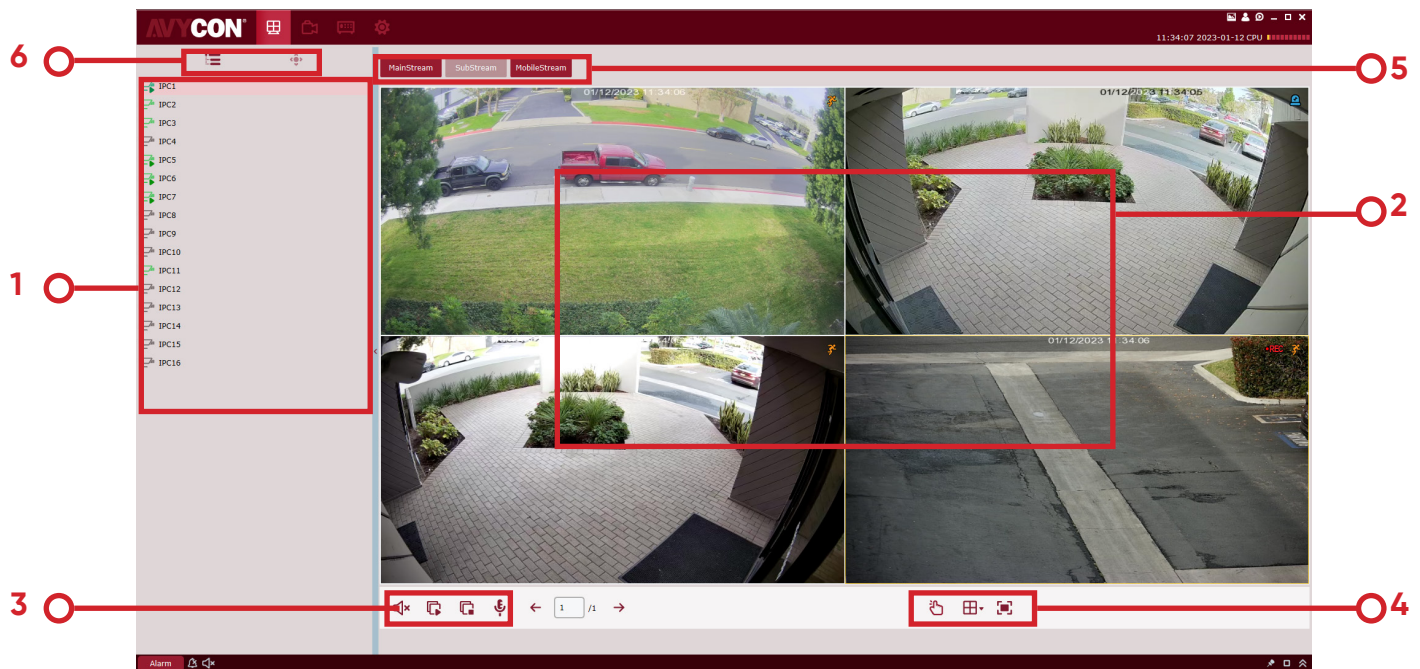


Figure 11-1 Device Login Interface

Step 4: Click on "Login" to enter the interface as shown in Figure 11-1. See Table 11-1 for more details.

SN	Name	Description
1	Equipment area	Displays all devices bound to the IP currently logged in.
2	Preview area	Properly connected devices will display the frame.
3	Control area	Controls sound and playback of all frames.
4	Interface area	Sets the number of windows and full-screen display.
5	Stream area	Choose proper stream for playback.
6	Switching area	Toggle display of device tree and fish-eye device cradle head control.

Table 11-1 Parameter Description

11.2 Remote video playback

Step 1: On the function tab, click on "Remote Playback" to enter the remote video playback interface, as shown in Figure 11-2-1.

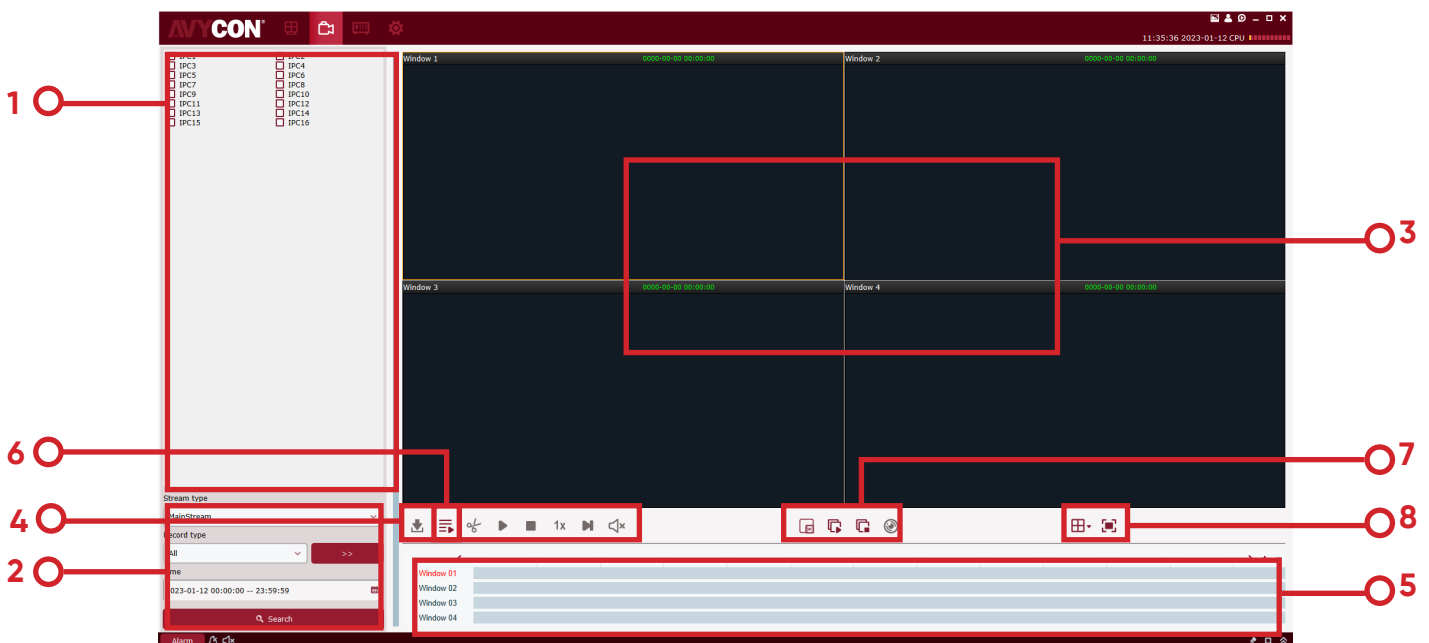
















Figure 11-2-1 Remote Video Playback

See Table 11-2 for more details.

SN	Name	Description
1	Date	Set the recording type, code stream, start and end times in "Search Config", and then click on "Search", and therecording information will be displayed in the time progress box.
2	Device Tree	Select the device that needs to be played back.
3	Video playback area	<p>The windows in preview area can be divided by various pattern. Screen-shot, video recording and electronic amplification are available during preview.</p> <p>Screen-shot: Select a video window with preview enabled, click on  in the window or right click on  CAPTURE to capture a single screen-shot.</p> <p>Electron amplification: Select a video window with preview enabled, and click on .</p> <p>Recording: Select a video window with preview enabled, and click on .</p>
4	Playback Control Area	<p>Control how video is played back and volume of playback.</p> <ul style="list-style-type: none"> •  Start playback. •  Pause playback. •  Stop playback. •  Playback by single frame. •  Play back at higher speed •  Play back at lower speed •  Edit and export video clip. •  Export video. <p>Click on  or  to turn on audio and adjust volume.</p>








SN	Name	Description
5	Progress Area	Displays existing video information.
6	Smart Search	 Click on it to enter smart search playback interface, as shown in 11.2.1.
7	Video Control Area	 Play video in all channels from the same point of time.  Stop recording in all channels.  Special mode for fish-eye device.
8	Set the video window and display mode	Click on  to choose a desired video window display mode. Click on  or right-click  FULLSCREEN on to choose full screen display mode.

Table 11-2 Parameter Description

11.2.1 Smart Search

Click on  to enter smart search as shown in Figure 11.2.1 below.

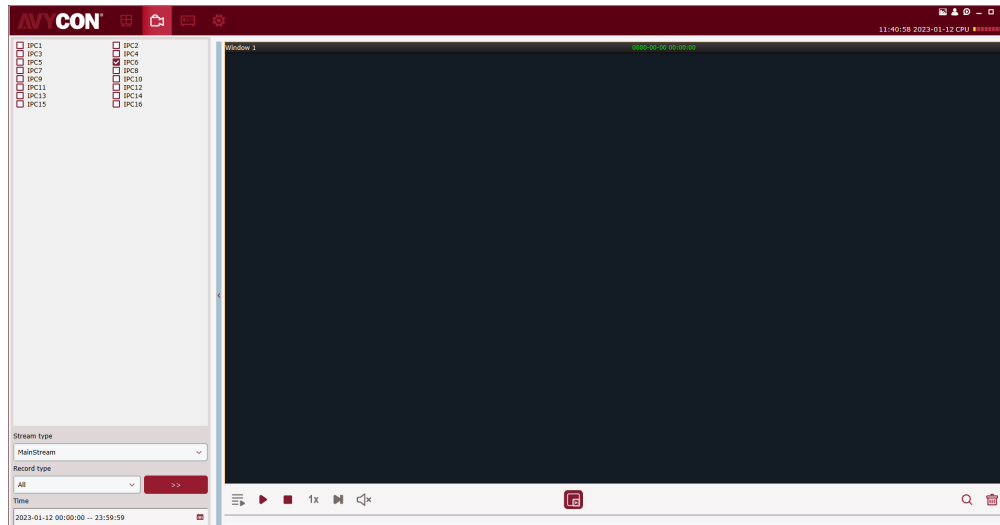




Figure 11.2.1-1

Smart Search will start recording when there is any change in the frame. Only one channel will be chosen for search (the same as NVR and DVR). During playback, it will be detected whether there is any change in the frame. Specify a detection area and then click on  to start search. Click on  to clear the detection area. By default, the whole area will be chosen, as shown in Figure 11.2.1-2.

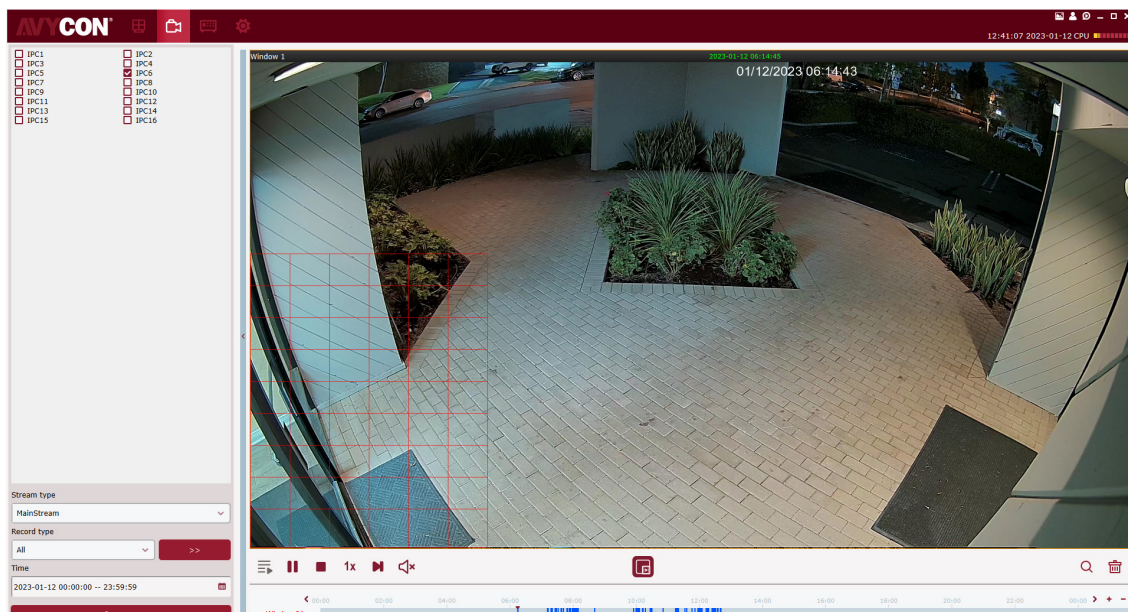



Figure 11.2.1-2

11.3 Export recorded video

Step 1: Choose a video window where playback is active, and click on  in the playback control area to pop up a dialog box as shown in Figure 11-3-1.

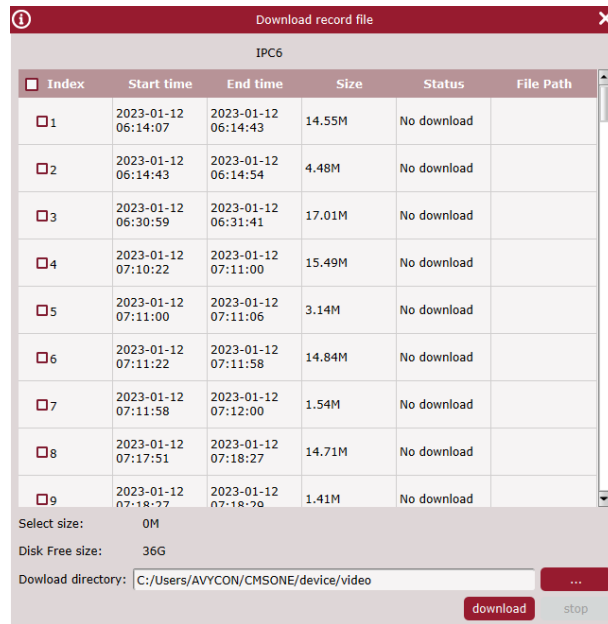


Figure 11-3-1 Export Video

Step 2: Check the video to be exported, and then set a path where it will be saved.

Step 3: Click "Download" to start export.

Note:

See "Section 8 System Configuration" for more details.

11.4 System Configuration

Click on "System Config" in the function tab to enter the system configuration interface. See "Section 8 System Configuration" for more details.

Chapter 12 Face Detection

Face detection function is available only for detection and shooting the face of persons within specified area. It allows recognition of facial features of the captured face. Allows human/vehicle form recognition.

12.1 Face Recognition and Search

Step 1: Click on “Face Search” in the main menu to enter the face search interface, as shown in Figure 12-1.

Note:

The device must allow face recognition.

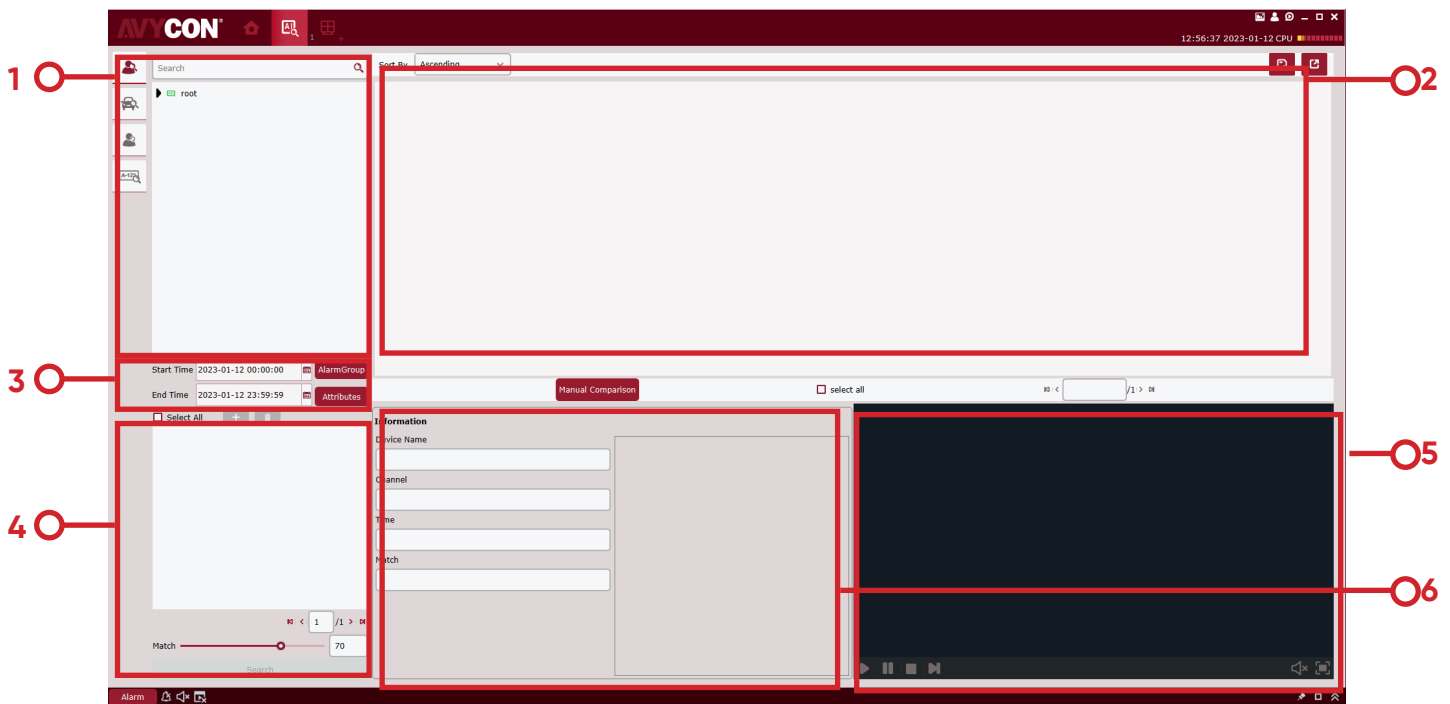


Figure 12-1-1. Face Search Interface

See Table 12-1 for more details.

SN	Name	Description
1	Device tree	List device channels
2	Search results display area	Displays images that are found based on settings.
3	Search setting area	Displays images that are found based on settings.
4	Comparison Search Area	Click on + to add an image, either a local image or a device image. Click on Similarity to set similarity and click on Search to make a comparison search.
5	Video playback area	Select the specified video in the search results area and play it in the playback area.
6	Face information	Display the face information in the database

Table 12-1 Function Description

Step 2: After selecting the device channel and face group and setting the target date, click on "Search", and the system will display results as shown in Figure 12-3.

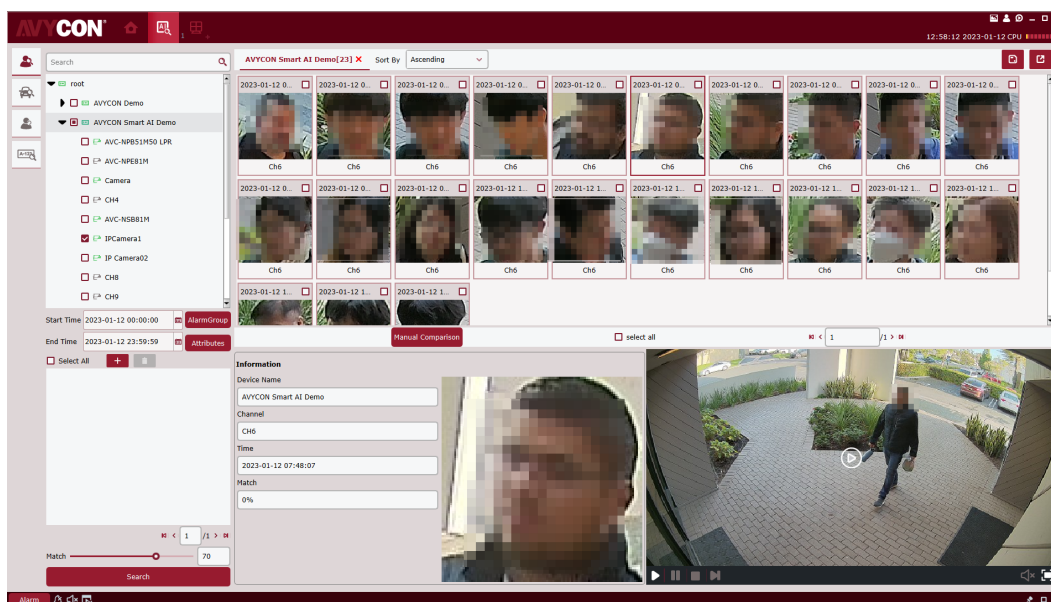




Figure 12-1-3 Search Results

Select an image  in the device and click on  button to search based on similarity. Click on a card to display details and play the video below.

Step 3: Click the picture you want to view the video, Click on  in the video playback area to enter the video playback interface, and click on  to enter the full-screen display mode, as shown in Figure 12-4. For more details, see "Table 6-1 Overview of Playback Functions".

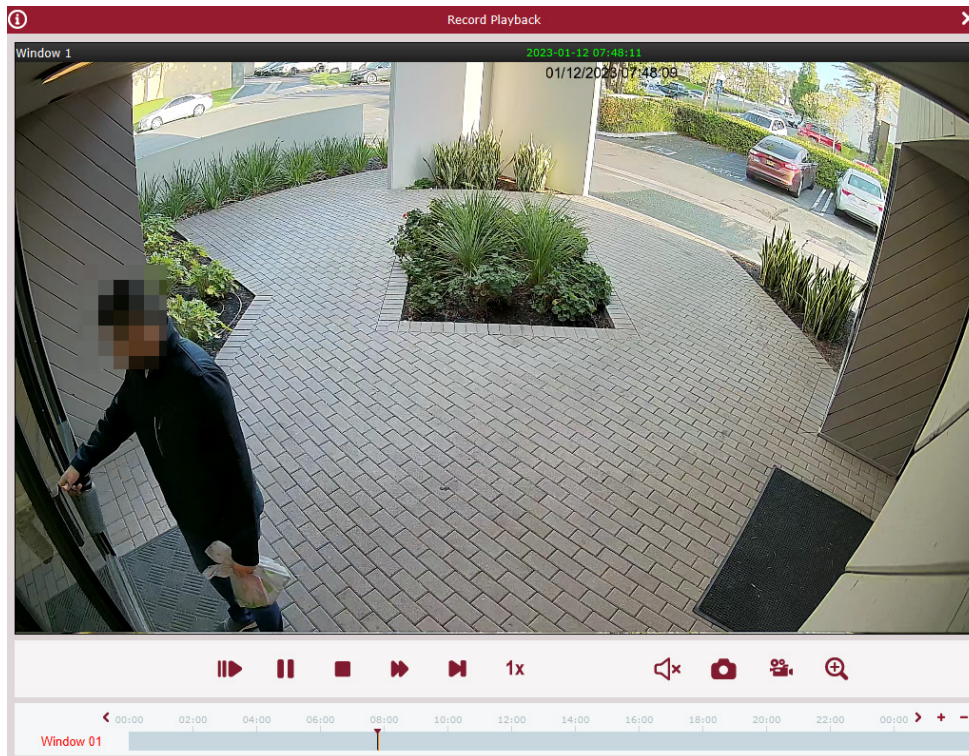



Figure 12-1-4 Image Slide Show


12.2 Comparison Search

Step 1: Click on “Face Search” in the main menu to enter the face search interface, as shown in 12-1-1 above.

Note:

The device must allow face recognition.

Step 2: After selecting the device channel and face group and setting the search date, click on  to add face pictures (either local pictures or pictures in the device).

Specify search similarity , and finally click on . The system will display a page as shown in 12-1-3.

- (1) Use AI_ Searchsnapedfaces message searches all qualified faces given relevant conditions;
- (2) Use AI_ Getsnapedfeaturesid message obtains all qualified ID and feature ID;
- (3) Recycle AI_ The filtersnapedfaces message obtains the filtering results until all faces are filtered;
- (4) Use AI_ The matchaddedfaces message obtains the identity information of all repeat customers;
- (5) Summarize the identity information and merge repeat customers with the same identity information.

Chapter 14 Repeat Visitor

- (1) Al_searchSnapedFaces message is used to search all faces meeting given relevant conditions;
- (2) Al_getSnapedFeaturesId message is used to obtain all ID and feature ID meeting relevant conditions;
- (3) Al_filterSnapedFaces message is used circularly to obtain the filtering results until all faces are filtered.
- (4) Al_matchAddedFaces message is used to obtain the identity information on all repeat visitors;
- (5) Summarize identity information and merge repeat visitors with the same identity information.

14.1 Search for repeat visitors

Step 1: Click on "Repeat Visitors" in the main menu to enter the face search interface, as shown in Figure 14-1.

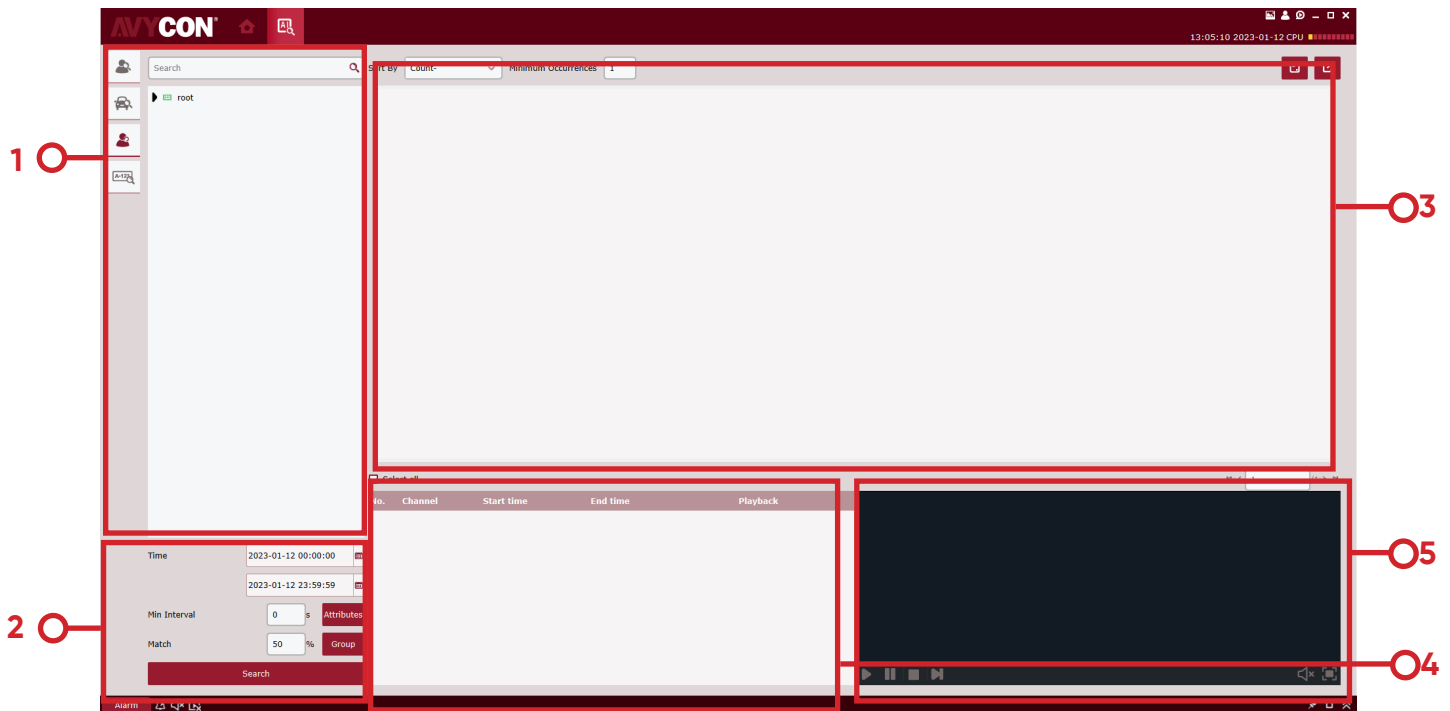


Figure 14-1-1 Repeat Visitor Interface

SN	Name	Description
1	Device tree	List the channels for the device.
2	Select the time frame you want to search	The frequency of face appearance is searched by time frame, minimum time of face appearance and similarity.
3	Human search display area	Display the portrait of the person searched by device and times of appearance.
4	Repeat visitor information display area	Show in chronological order the number of repeat visitors, the time, and the device channel in which the shot was taken.
5	Video playback area	Select the specified video in the repeat information display area and play it in the playback area.

Table 14-2 Function Description

Step 2: Select a device or group of devices and select the time to be searched, the Min Interval and Similarity. Choose the group for a person in **Group**, and click on **Search** button to start search, as shown in Figure 14-3.

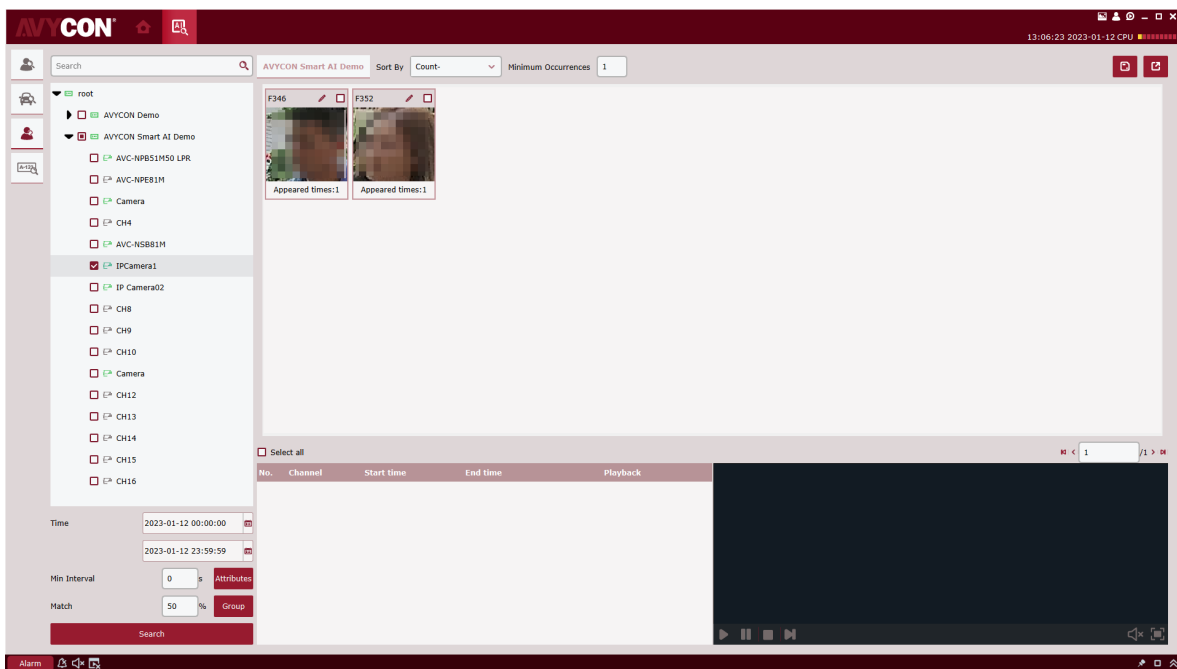


Figure 14-3 Search Results

Step 3: In search result display area, the search results are displayed in the form of cards, which consists of three parts, appearance frequency at the lower part Appeared times:16, portrait in the middle, and name Stranger, and checked at the upper part Stranger. First search stored information for the name. If no result is found, it will be displayed as Stranger. Click on the Stranger button to enter the detailed information page. In this page, if the repeat visitor is the person stored in the device, the detailed information will appear, as shown in Figure 14-4.

The screenshot shows a 'Detail Information' window with two tabs: 'Details' and 'Edit'. The 'Details' tab is active. The interface is divided into two main sections: 'Snapped Information' and 'Matched Information'.

Snapped Information:

- Channel: IPC6
- Start time: 2023-01-12 07:52:26
- End time: 2023-01-12 07:52:32
- Face ID: 935
- Score: 51
- Alarm Policy: Deny

Matched Information:

- Group: Block List
- Name: F346
- Age: 0
- Sex: male
- Country:
- Nationality:
- Native Place:
- Id Code:
- Occupation:
- Phone Number:
- Email:
- Residence:
- Remark:
- Additional Face Image:


There are two images: a small portrait of a person's face and a larger outdoor scene showing a person walking on a paved path.

Figure 14-4 Details Interface

In this interface, for a stranger, there is no other information. If you know that person, you can add that person's information to the device. Click on the button pointed by the arrow in the figure above to enter the interface as shown in 14-5.

Figure 14-5 Input information Interface

After filling in, click on Save button indicated by the arrow in the figure above to save the information into the device.

In the box on the right of, **Stranger** check it or select All at the bottom, and then click on the button  in the upper right corner to export the information found.

Step 4: Click on a card to display the information bar at the bottom of each repeat customer, as shown in 14-6.










No.	Channel	Start time	End time	Playback
1	IPC6	2022-12-05 13:17:04	2022-12-05 13:17:07	
2	IPC6	2022-12-05 13:20:51	2022-12-05 13:20:55	
3	IPC6	2022-12-05 17:01:40	2022-12-05 17:01:58	
4	IPC6	2022-12-06 08:23:05	2022-12-06 08:23:08	
5	IPC6	2022-12-06 08:23:06	2022-12-06 08:23:09	
6	IPC6	2022-12-06 08:23:19	2022-12-06 08:23:24	
7	IPC6	2022-12-06 08:23:22	2022-12-06 08:23:26	
8	IPC6	2022-12-06 11:31:38	2022-12-06 11:31:44	

Figure 14-5 Input information Interface

This information bar shows the recording channel in chronological order, the shooting time, video Playback. Click on the button  in Video Playback to playback the video in the video playback window on the right (see Table 6-1 for more details).

Chapter 15 Search for Human and Vehicle

It is used to search for human and vehicle.

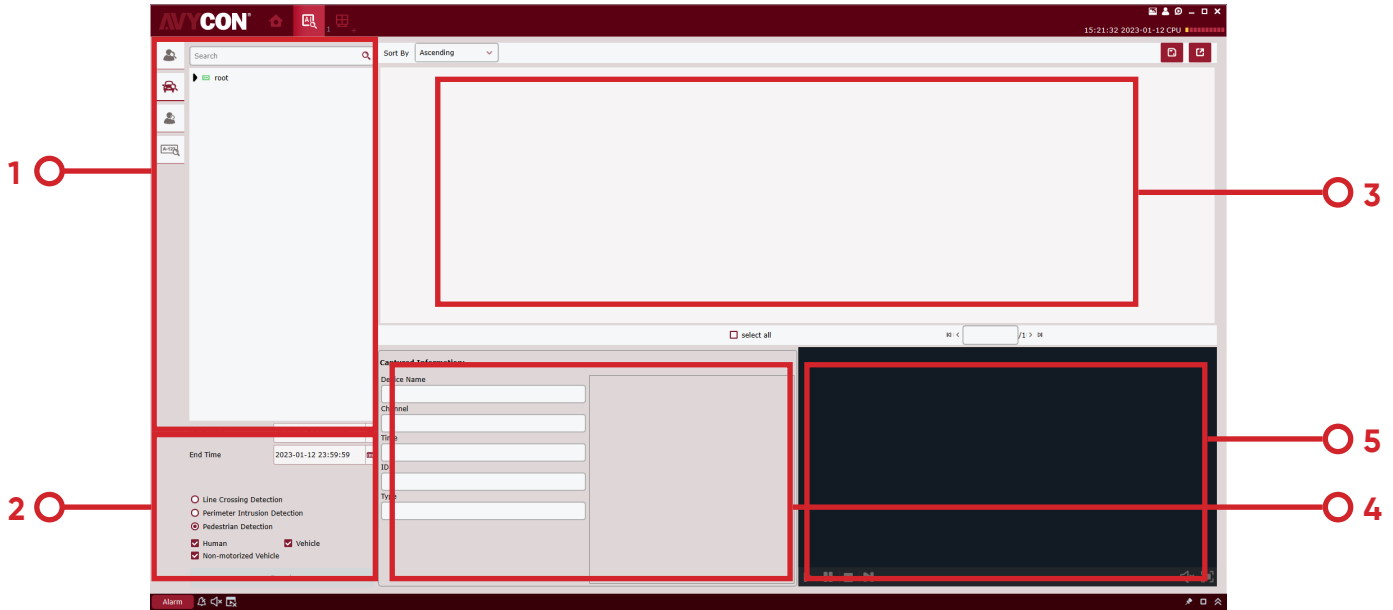



Figure 15-1 Search for Human and Vehicle Type

SN	Name	Description
1	Device tree	List the channels for the device.
2	Select the time frame you want to search	Select the time frame to search, check the person or vehicle to search, and then click on Search.
3	Human and vehicle search display area	Display image of the human and vehicle found by the time frame.
4	Device information display area	Display the details on the device
5	Video playback area	Playback video

Table 15-1 Human/Vehicle Search Interface Description










Step 1: Select a device or device group from the device tree.

Step 2: Select the time frame to search at the bottom of the device tree, check the person or vehicle to search, and then click on Search.

Step 3: The search results are displayed in the display area in the form of cards. Click on a card to display details on the device at the bottom, and to play back the video in the playback area. Check the box in the top right corner of the card and click the button  in the top right corner of the page to export the information.

Chapter 16 Fish-Eye View Mode

Only the fish-eye device allows setting of the installation mode and view mode, and the view mode corresponding to different installation modes is shown in Table 16-1.

Parameters	Description	
View mode	The rendering mode of the current video screen (the default supports the original image mode). According to different installation modes, other different rendering modes are available as follows: 1) Ceiling mounted: VR, cylinder, 1P, 1P+1, 1P+3, 1P+6, 1P+8, 1+3, 1+8, 2, 2P, 4. 2) Wall mounted: VR, 1P, 1P+3, 1P+8, 1+3, 1+8, 4. 3) Floor mounted: VR, cylinder, 1P, 1P+1, 1P+3, 1P+6, 1P+8, 1+3, 1+8, 2P, 4.	
Ceiling/wall/floor mounted	 : Original image	A raw image which has not been corrected.
Ceiling mounted	 : 2	2 independent sub-frames, which allows doubling and moving operations.
Ceiling/floor mounted	 : VR	VR mode, double-click to enter, which allows doubling and moving operations.
	 : Cylinder	Cylindrical display mode, which can be stretched into a plane, which allows moving operation.
	 : 4	4 independent sub-frames, which allows doubling and moving operations.
	 : 2P	Two associated 180° rectangular expansion screens, and the two sub-windows at any time constitute a 360° panorama, also known as «double panorama». The two rectangular expansion screens allow the operation of moving the starting laterally, and interaction.
	 : 1P	A 360° rectangular panorama is expanded, which allows moving operation.
	 : 1P+1	A 360° rectangular panorama expanded +1 independent sub-screen. Sub-screen and sub-box in rectangular panorama expanded allow doubling and moving operations. Rectangular panorama expansion does not allow doubling and moving operations.
	 : 1P+3	A 360° rectangular panorama expanded +3 independent sub-screen. Sub-screen and sub-box in rectangular panorama expanded allow doubling and moving operations. Rectangular panorama expansion does not allow doubling and moving operations.












Parameters	Description	
Ceiling/Floor Mounted	 : 1P+6	A 360° rectangular panorama expanded +6 independent sub-screen. Sub-screen and sub-box in rectangular panorama expanded allow doubling and moving operations. Rectangular panorama expansion does not allow doubling and moving operations.
	 : 1P+8	A 360° rectangular panorama expanded +8 independent sub-screen. Sub-screen and sub-box in rectangular panorama expanded allow doubling and moving operations. Rectangular panorama expansion does not allow doubling and moving operations.
	 : 1+3	An original image +3 independent sub-images, and the sub-frames in the sub-images and the original image all allow doubling and moving operations. The original image allows doubling operation.
	 : 1+8	An original image +8 independent sub-images, and the sub-frames in the sub-images and the original image all allow doubling and moving operations. The original image allows doubling operation.
Wall Mounted	 : VR	VR mode, double-click to enter, which allows doubling and moving operations.
	 : 1P	A 360° rectangular panorama is expanded laterally, changing the vertical angle of view. It does not allow doubling and moving operations.
	 : 4	4 independent sub-frames, which allows doubling and moving operations.
	 : 1P+3	A 360° rectangular panorama expanded +3 independent sub-screen. Sub-screen and sub-box in rectangular panorama expanded allow doubling and moving operations. Rectangular panorama expansion changes vertical angle of view, but does not allow doubling and moving operations.
	 : 1P+8	A 360° rectangular panorama expanded +8 independent sub-screen. Sub-screen and sub-box in rectangular panorama expanded allow doubling and moving operations. Rectangular panorama expansion changes vertical angle of view, but does not allow doubling and moving operations.
	 : 1+3	An original image +3 independent sub-images, and the sub-frames in the sub-images and the original image all allow doubling and moving operations. The original image allows doubling and moving operations.
	 : 1+8	An original image +8 independent sub-images, and the sub-frames in the sub-images and the original image all allow doubling and moving operations. The original image allows doubling and moving operations.

Table 16-1 View Mode

16.1 Access Fish-Eye Mode during Live Preview

Step 1: Click on  or right-click on  **FISHEYE** in the preview window to access fish-eye mode, as shown in Figure 16-1-1. See Table 16-2 for more details.

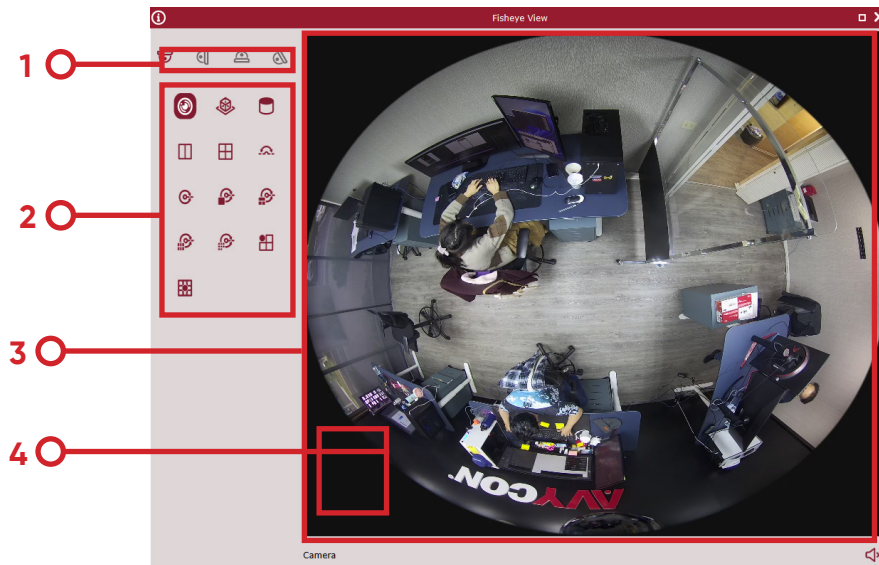


Figure 16-1-1 Fish-Eye Mode






SN	Name	Description
1	Fish-eye installation mode	Switch to fish-eye installation mode.
2	Fish-eye view mode	Switch to fish-eye view mode.
3	Real-time interface	Real-time display of fish-eye window view.
4	Cradle head control	Use the control panel to adjust the fish-eye window view.

Table 16-2 Overview of Fish-Eye Interface Functions


Step 2: With the fish-eye installation mode and view mode set properly, the fish-eye equipment can be controlled with cradle head.

Notes:

The control panel of the cradle head may vary depending on different equipment. Please refer to the interface for details.

- Select a PTZ window and click on one of the direction buttons to adjust the perspective.
- Select a PTZ window and click on  to enable automatic scanning. Click again to stop automatic scanning.
- : Drag the slider to adjust the speed of the PTZ motion.
-  Select a PTZ window, click on  or  to zoom in /out the selected PTZ window, or scroll the mouse wheel back and forth to focus.

16.2 Access Fish-Eye Mode during Playback

Click on  in the playback window to access fish-eye mode. Refer to Section 16.1 for more details.

Chapter 17 Alarm Settings

Open the main menu and click to enter it. You can enable and set various types of alarms for the channel.

17.1 Overview of Alarm Interface

Select "Alarm Config" from the main menu to enter the alarm setting interface, as shown in Figure 17-1-1 See Table 17-1 for more details.



Figure 17-1-1 Alarm Setting Interface

SN	Name	Description
1	Device list	Open the device group and select a channel.
2	Alarm type	Alarm types include: <ul style="list-style-type: none"> • Motion • I/O • Video Loss • PIR • Intelligent
3	Alarm triggering operation	Alarms triggers include: <ul style="list-style-type: none"> • Capture • Record • Popup • Sound









SN	Name	Description
4	Copy and save	Click Copy to copy the alarm trigger for this channel to other channels or channels of other devices, and click Save to save the settings.
5	Trigger alarm information window, pop-up window and sound	Click on Alarm to pop up the alarm trigger information window; Click on  to delete the existing alarm information in the pop-up window; Click on  to enable audible alarm, and click on  to disable it. Click on  to enable pop-up alarm message, and click on  to disable it.
6	Alarm thumbnail and zoom-in of alarm trigger message window	Click on  under Enable/disable auto hide to hide alarm thumbnail in preview area. Click on  to zoom in the pop-up alarm trigger message; Click on  to unfold or fold the alarm trigger message window;

Table 17-1-2 Alarm Settings

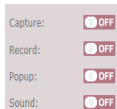
17.2 Alarm settings

Step 1: Open a device from the device list and choose a channel for the device.

Step 2: Choose an alarm type from

Motion IO Video Loss PIR Smart Analytics OffLine AD

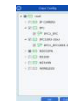
Step 3: Enable an alarm trigger under the alarm type, and enable any required options.



Step 4: Click Save to save;

Step 5: If other channels or devices also need the same alarm

triggering operation, click on **Copy** and the device channel box will pop up



check the channel to be opened, click on OK to confirm, and then click on Save.

Note:

The copy function only takes effect when an alert triggering operation on a certain channel by clicking on

Save

17.3 Trigger alarm information window, pop-up window and sound

- Click on **Alarm** at the lower left corner to open the trigger alert information window, as shown in Figure 14-3-1.

Alarm time	Alarm source	Alarm type	Information	Alarm capture	Alarm record
2019-08-01 19:23:03	N5032PN IPC12_N5032PN	Motion detection	Motion end	No capture	No record
2019-08-01 19:23:01	IPC1093-18xx IPC1_IPC1093-18xx	I/O	IO alarm begin	No capture	No record
2019-08-01 19:22:52	N5032PN IPC1_N5032PN	I/O	IO alarm begin	No capture	No record
2019-08-01 19:22:52	N5032PN IPC8_N5032PN	I/O	IO alarm begin	No capture	No record
2019-08-01 19:22:52	N5032PN IPC9_N5032PN	I/O	IO alarm begin	No capture	No record

Motion detection Video exception Alarm I/O PIR

- In the alarm message window, you can see:

Alarm Time: Alarm time
2019-08-01
19:31:33

Alarm Source: Alarm source
NS032PN IPCB_NS032PN

Alarm Type: Alarm type
I/O

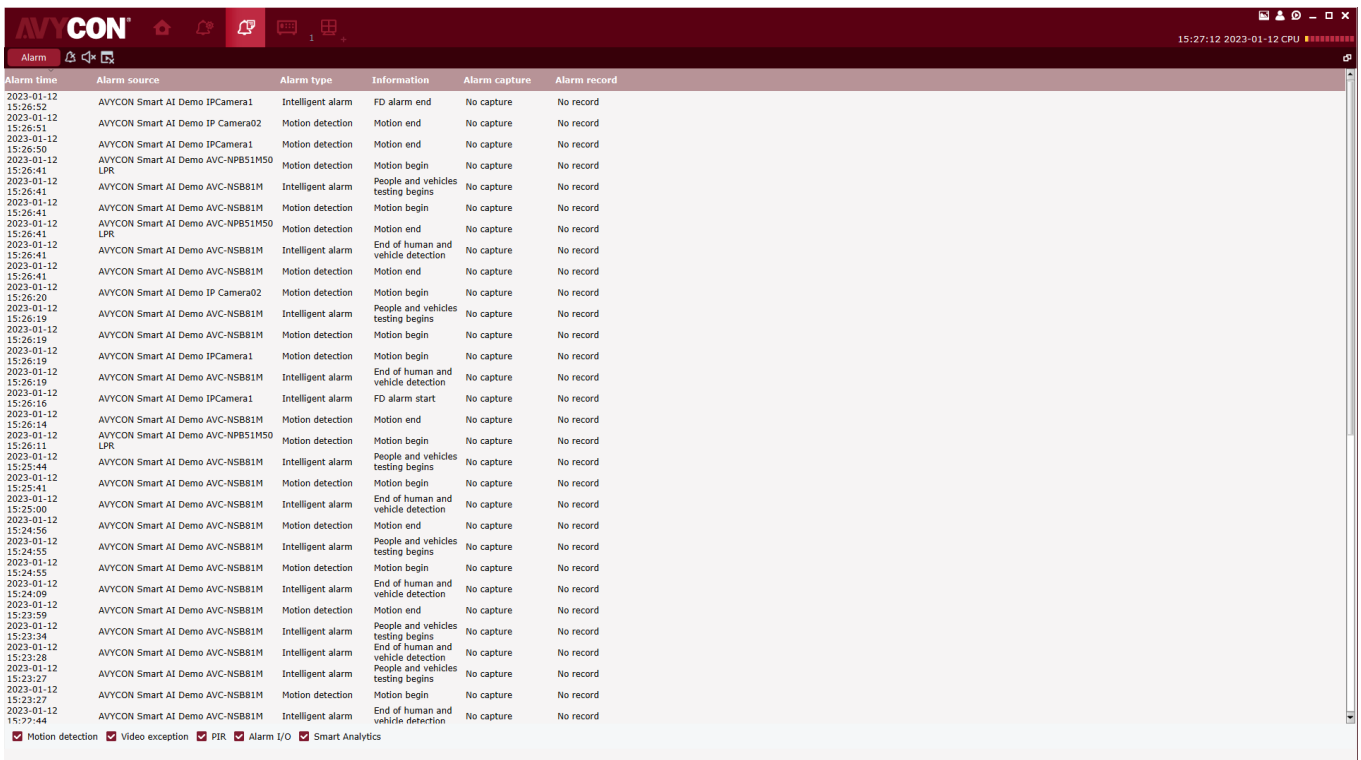
Alarm Message: Information
Motion begin

Alarm Screen-shot: Alarm capture
140_7_IPC23_N5...

Alarm Video: Alarm record
126_6_IPC9_NS032PN_20190801193427.rf

Click on relevant picture or screen-shot to view the details.

- Click on  to zoom in the alarm message window, as shown in Figure 17-3-2.



Alarm time	Alarm source	Alarm type	Information	Alarm capture	Alarm record
2023-01-12 15:26:52	AVYCON Smart AI Demo IPCamera1	Intelligent alarm	FD alarm end	No capture	No record
2023-01-12 15:26:51	AVYCON Smart AI Demo IP Camera02	Motion detection	Motion end	No capture	No record
2023-01-12 15:26:50	AVYCON Smart AI Demo IPCamera1	Motion detection	Motion end	No capture	No record
2023-01-12 15:26:41	AVYCON Smart AI Demo AVC-NP851M50 LPR	Motion detection	Motion begin	No capture	No record
2023-01-12 15:26:41	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	People and vehicles testing begins	No capture	No record
2023-01-12 15:26:41	AVYCON Smart AI Demo AVC-NS881M	Motion detection	Motion begin	No capture	No record
2023-01-12 15:26:41	AVYCON Smart AI Demo AVC-NP851M50 LPR	Motion detection	Motion end	No capture	No record
2023-01-12 15:26:41	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	End of human and vehicle detection	No capture	No record
2023-01-12 15:26:41	AVYCON Smart AI Demo AVC-NS881M	Motion detection	Motion end	No capture	No record
2023-01-12 15:26:20	AVYCON Smart AI Demo IP Camera02	Motion detection	Motion begin	No capture	No record
2023-01-12 15:26:19	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	People and vehicles testing begins	No capture	No record
2023-01-12 15:26:19	AVYCON Smart AI Demo AVC-NS881M	Motion detection	Motion begin	No capture	No record
2023-01-12 15:26:19	AVYCON Smart AI Demo IPCamera1	Motion detection	Motion begin	No capture	No record
2023-01-12 15:26:19	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	End of human and vehicle detection	No capture	No record
2023-01-12 15:26:16	AVYCON Smart AI Demo IPCamera1	Intelligent alarm	FD alarm start	No capture	No record
2023-01-12 15:26:14	AVYCON Smart AI Demo AVC-NS881M	Motion detection	Motion end	No capture	No record
2023-01-12 15:26:11	AVYCON Smart AI Demo AVC-NP851M50 LPR	Motion detection	Motion begin	No capture	No record
2023-01-12 15:25:44	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	People and vehicles testing begins	No capture	No record
2023-01-12 15:25:41	AVYCON Smart AI Demo AVC-NS881M	Motion detection	Motion begin	No capture	No record
2023-01-12 15:25:00	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	End of human and vehicle detection	No capture	No record
2023-01-12 15:24:56	AVYCON Smart AI Demo AVC-NS881M	Motion detection	Motion end	No capture	No record
2023-01-12 15:24:55	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	People and vehicles testing begins	No capture	No record
2023-01-12 15:24:55	AVYCON Smart AI Demo AVC-NS881M	Motion detection	Motion begin	No capture	No record
2023-01-12 15:24:09	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	End of human and vehicle detection	No capture	No record
2023-01-12 15:23:59	AVYCON Smart AI Demo AVC-NS881M	Motion detection	Motion end	No capture	No record
2023-01-12 15:23:34	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	People and vehicles testing begins	No capture	No record
2023-01-12 15:23:28	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	End of human and vehicle detection	No capture	No record
2023-01-12 15:23:27	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	People and vehicles testing begins	No capture	No record
2023-01-12 15:23:27	AVYCON Smart AI Demo AVC-NS881M	Motion detection	Motion begin	No capture	No record
2023-01-12 15:23:27	AVYCON Smart AI Demo AVC-NS881M	Motion detection	Motion begin	No capture	No record
2023-01-12 15:23:27	AVYCON Smart AI Demo AVC-NS881M	Intelligent alarm	End of human and vehicle detection	No capture	No record

Motion detection Video exception PIR Alarm I/O Smart Analytics

Table 17-1-2 Alarm Settings

- After the alarm trigger is enabled, the device channel real-time preview pop-up will appear when the alarm is triggered, and the alarm situation can be checked in real time, as shown in Figure 17-3-3.

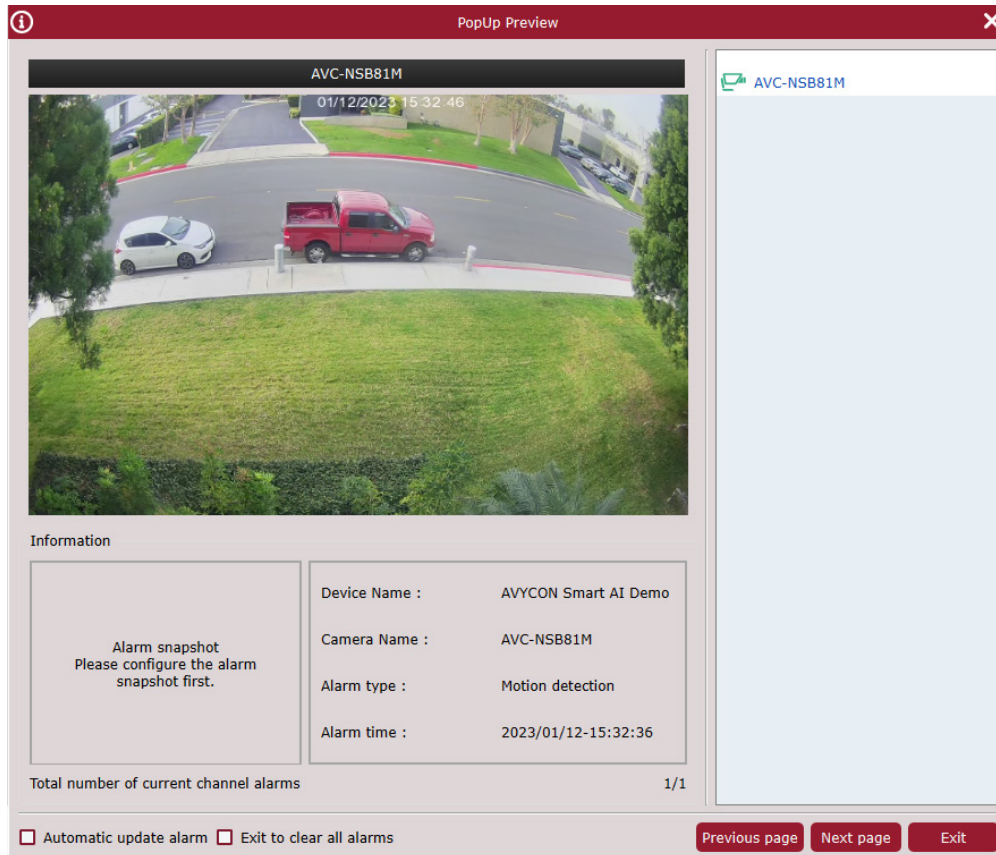


Figure 17-3-3 Alarm Pop-Up Preview

Chapter 18 Local Playback

18.1 Overview of Local Playback

You can play back and export videos and images at client. Select "Local Playback" from main menu to enter the playback interface, as shown in Figure 18-1. See table 18-1-1 for more details.

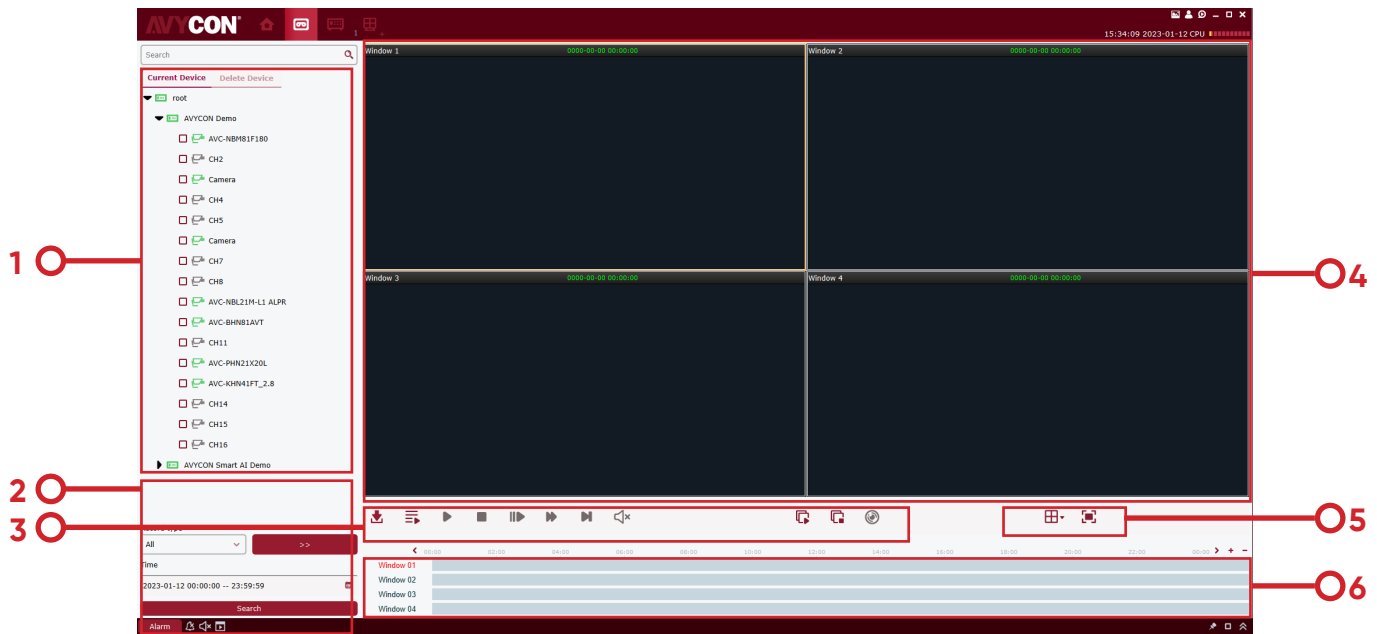


Figure 10-1-1 Local Playback Page

SN	Function	Description	Operation
1	Device tree	The device group shows the groups and channels of the device. For settings of default device group, see "8. System Configuration".	
2	Date & time of access	Video playback search time	After selecting the device in the «Device tree», select the date to search for playback. If there is a video on that date, there will be an index at the lower right corner of the date, and then click on "Search".

SN	Function	Description	Operation	
3	Playback control bar	Control how video is played back and volume of playback.	<ul style="list-style-type: none"> Whether to sync playback. Start playback of videos. Pause playback. Stop playback . Playback by single frame. Fast-forward and play the video. Play back the video at low speed. Start video playback in all channels. Stop video playback in all channels. Enable fish-eye mode. 	
4	Playback window	Video playback display area	Screen-shot	Select the playback window, click on or right click on CAPTURE to capture a single image.
			Zoom-in	Select a video window with preview enabled, and click on .
			Stop playing	Select a video window with preview enabled, and click on or right click on STOP PLAY.
			Recording	Select a video window with preview enabled, click on in the window or right click on START RECORDING.
			Enable fish-eye	Select a video window with preview enabled, click on in the window or right click on FISHEYE (available only for fish-eye device).
			Full screen display	Click on or right click on FULLSCREEN.
5	Window control	Set how the video window is displayed		Select the desired display mode and number of video windows.
			or FULLSCREEN	Full-screen display mode.
6	Progress box	Display existing video information		Increase accuracy of playback progress bar.
				Decrease accuracy of playback progress bar.
				You can re-position the progress bar to jump to another display area.

Table 18-1-1 Overview of Playback Functions

18.2 Playback of Local Video

This playback is a local video operation performed through a local video plan. See “Section 19 Local Video Recording Schedule” for local video playback operations.

Step 1: From the main menu, select “Local Playback” to enter the local video playback screen.

Step 2: In the “Device Group”, check the device as required, set the date to be played back at the bottom, and click on “Search”. After successful search, the results will be displayed in the progress box, as shown in Figure 18-2-1.

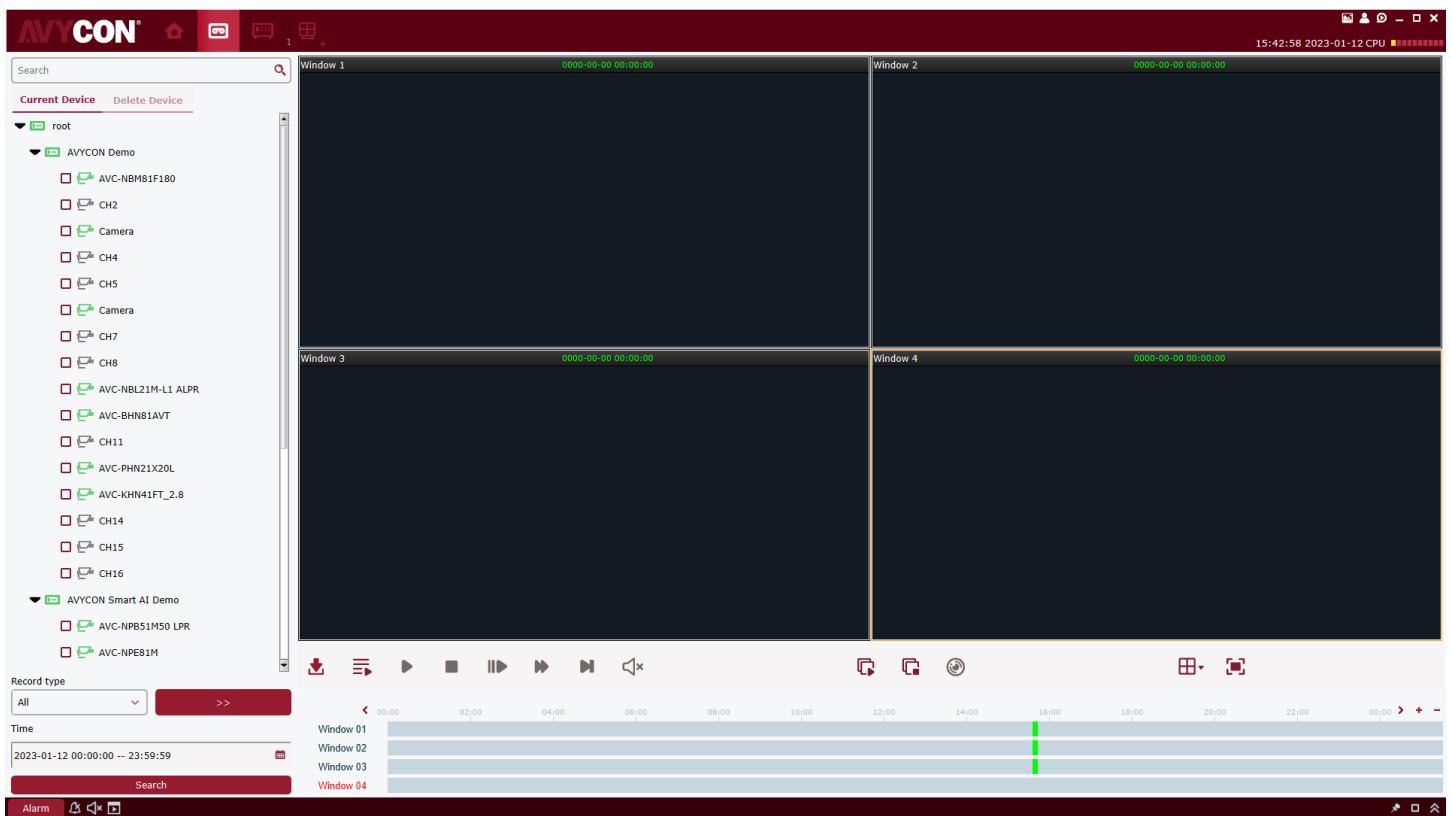


Figure 18-2-1 Search for Local Videos

Step 3: Click on  or  to start playback, as shown in Figure 18-2-2.

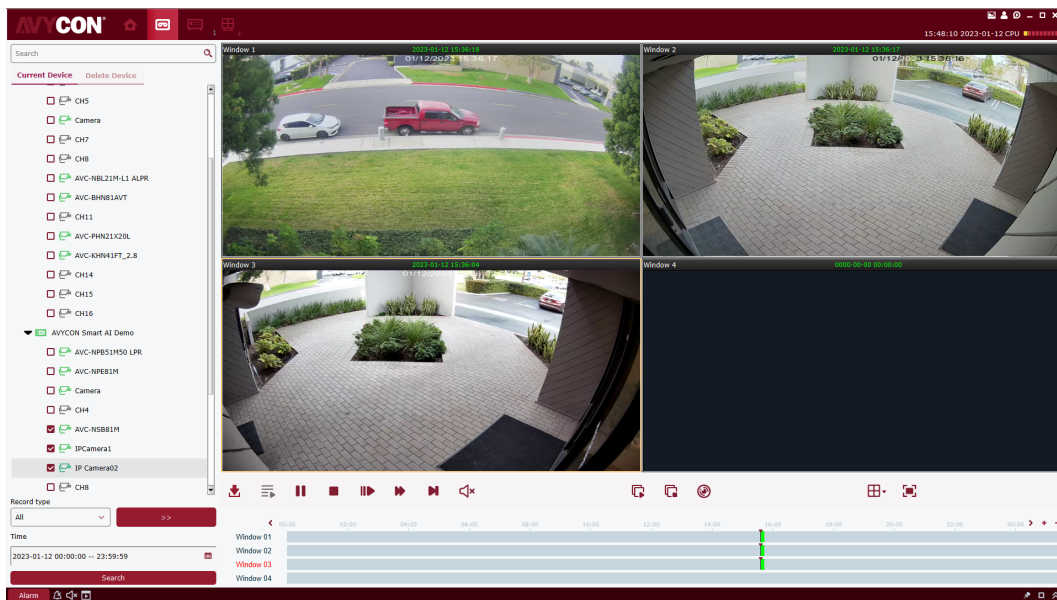





Figure 18-2-2 Playback of Local Videos

Note:

By default, any remote video will be played back asynchronously. To enable synchronous playback, click on  to enter the setting page, as shown in Figure 18-2-3. After entering the synchronous play mode, click on  to start sync playback or on  to stop it.

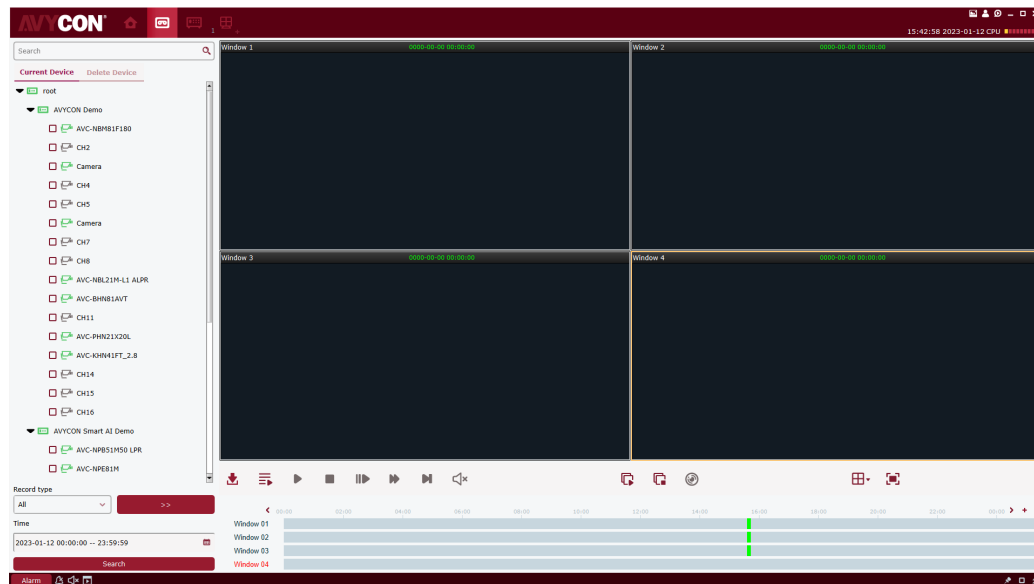
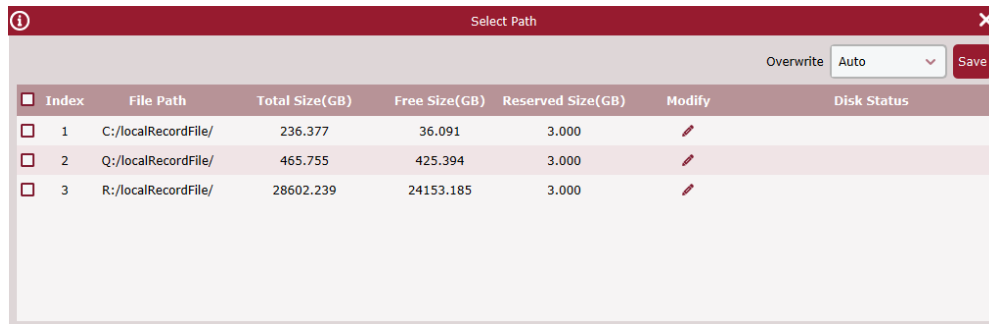


Figure 18-2-3 Setting of Sync Playback

Chapter 19 Local Video Recording Schedule

The operations on local video schedule are described below.

Step 1: Select "Local Record" from the main menu to pop up a local video recording schedule page, as shown in Figure 19-1-1.



19-1-1 Select Path Where Video is Saved

Step 2: After selecting the path, click on "Save" to save, and the system enters the local video recording schedule page, as shown in Figure 19-1-2.

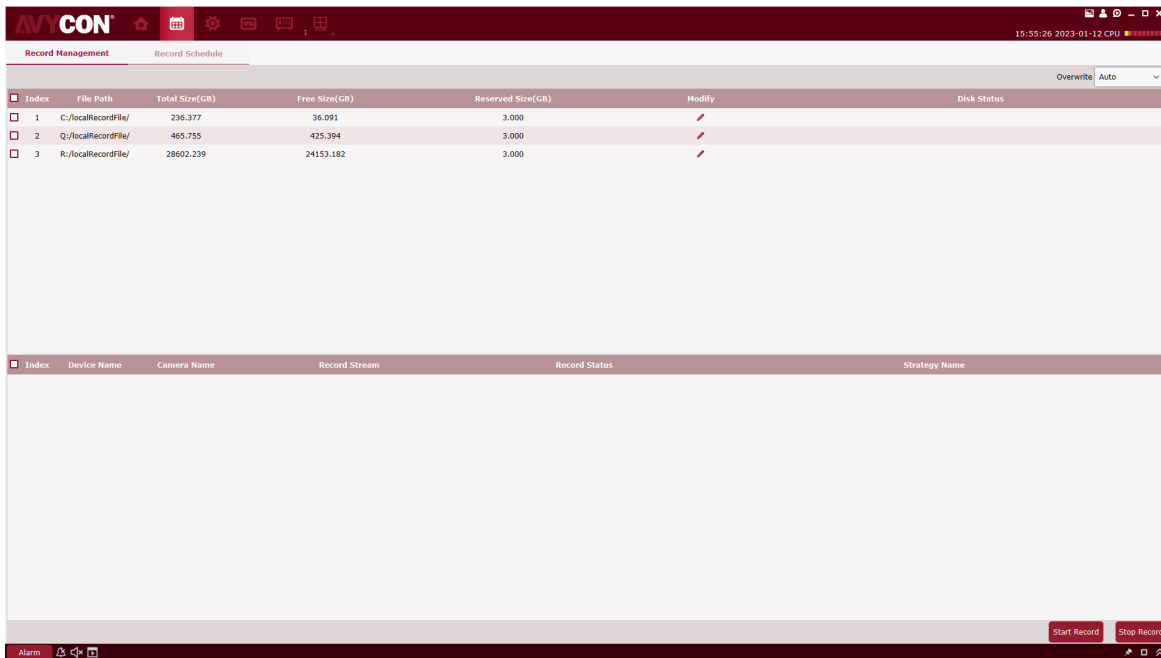


Figure 19-1-2 Local Video Recording Schedule

Step 3: Set the memory reserved size under Reserved Size (GB) (by double-clicking on it), then specify the Overwrite time in the upper right corner, and click on Save.

Step 4: Click on "Record Schedule" to enter the video Schedule setting interface. Check the target device from the device tree, specify the time of recording in the grid area on the right side of the interface, hold down the left mouse button and drag to set, and click on "Save" to Save after setting, as shown in Figure. 19-1-3.

The screenshot shows the AVYCON Record Schedule interface. The top bar includes the AVYCON logo and system information (15:58:15 2023-01-12 CPU). The main area is titled "Record Schedule" and features a search bar, a "Strategy-1" dropdown, and a "Switch file intervals" setting of 30 minutes (5-60Mins). A grid displays recording times for days of the week (Sun-Sat) and hours (0-22). Below the grid is a table with the following data:

Index	Device Name	Camera Name	Record Stream	Strategy Name
1	AVYCON Smart AI Demo	AVC-NSB81H	Substream	Strategy-1
2	AVYCON Smart AI Demo	IPCamera1	Substream	Strategy-1
3	AVYCON Smart AI Demo	IP Camera02	Substream	Strategy-1

Buttons for "Add", "Delete", "Clear", and "Save" are visible at the bottom of the interface.

Figure 19-1-3 Setting of Recording Time

Step 5: After setting, go back to the interface of "Record Management", check the box on the bottom left to select the device channel to record, or select all channels with one click, and then click on **Start Record** at the lower right corner to start the local scheduled recording. After recording is started, "Writing" will be displayed at Disk Status in Record Management, and the recording status is displayed as "recording", as shown in Figure 19-1-4.

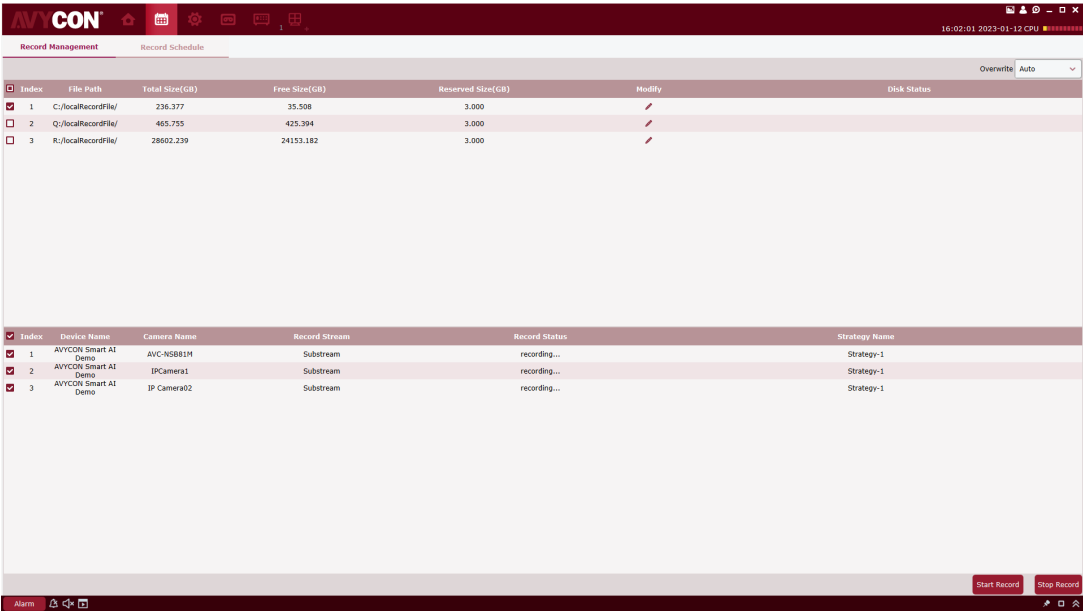


Figure 19-1-4 Start Local Scheduled Video Recording

Step 6: Click on **Start Record** stop local scheduled video recording, "Writing" will disappear from the Disk Status in Record Management, and the recording status is displayed as "recording stop", as shown in Figure 19-1-5.

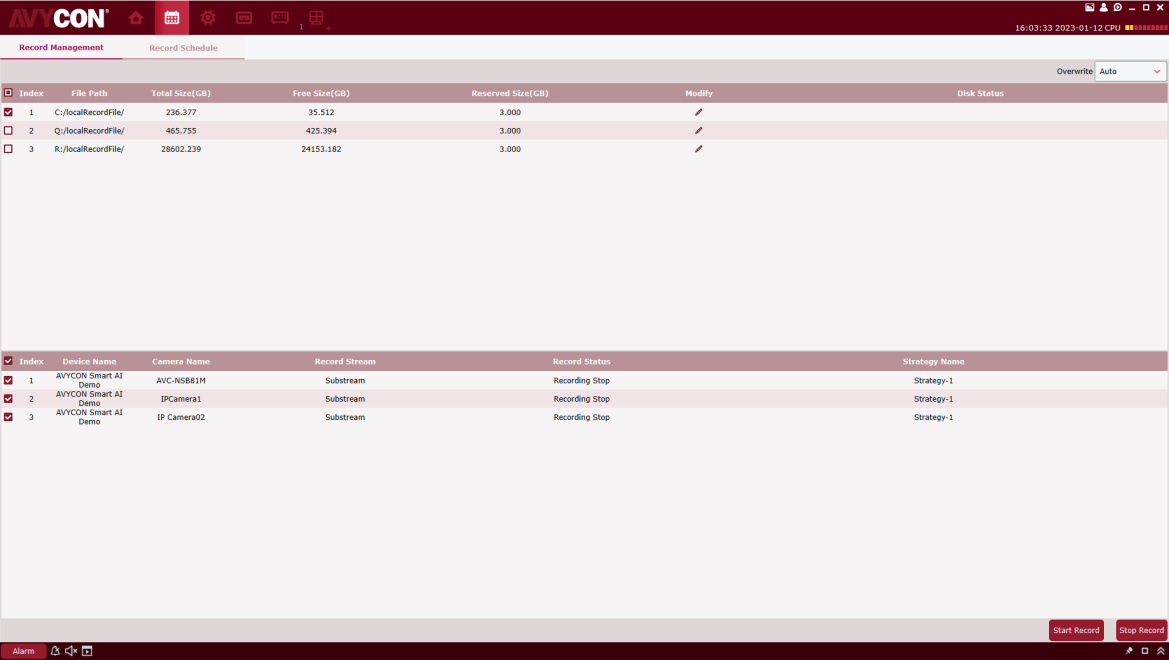


Figure 19-1-5 Ending Local Scheduled Video Recording

Chapter 20 File Management

File management allows you to view and play back local videos and images. The video includes the video operations during the preview, and the picture includes the capture operations during the preview.

20.1 Slide Show and Export of Local Images

Step 1: Select "File Management" from the main menu to pop up File Management interface, as shown in Figure 20-1-1.

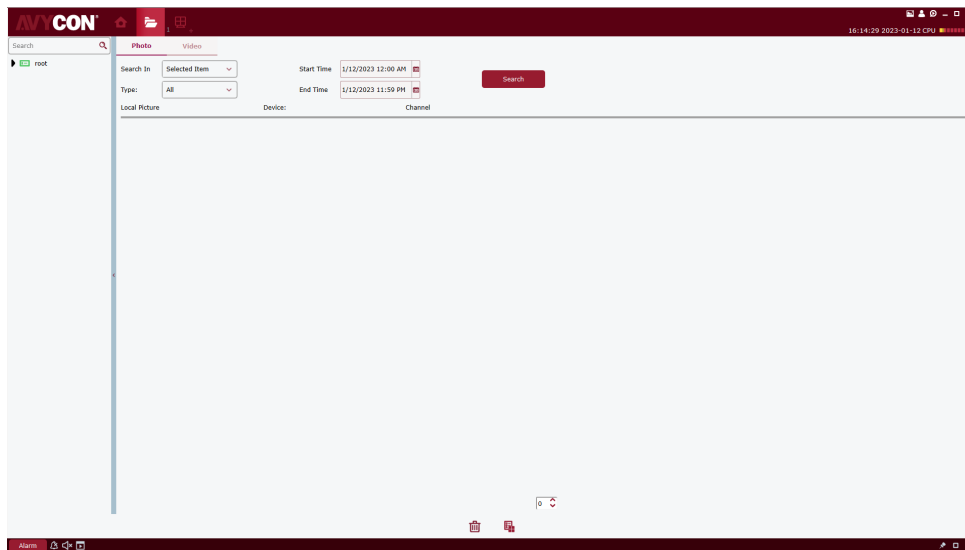


Figure 20-1-1 File Management

Step 2: Select the device channel you want to view in the "Device Group" on the left, set the date and time, and click "Search" to query the picture, as shown in Figure 20-1-2.

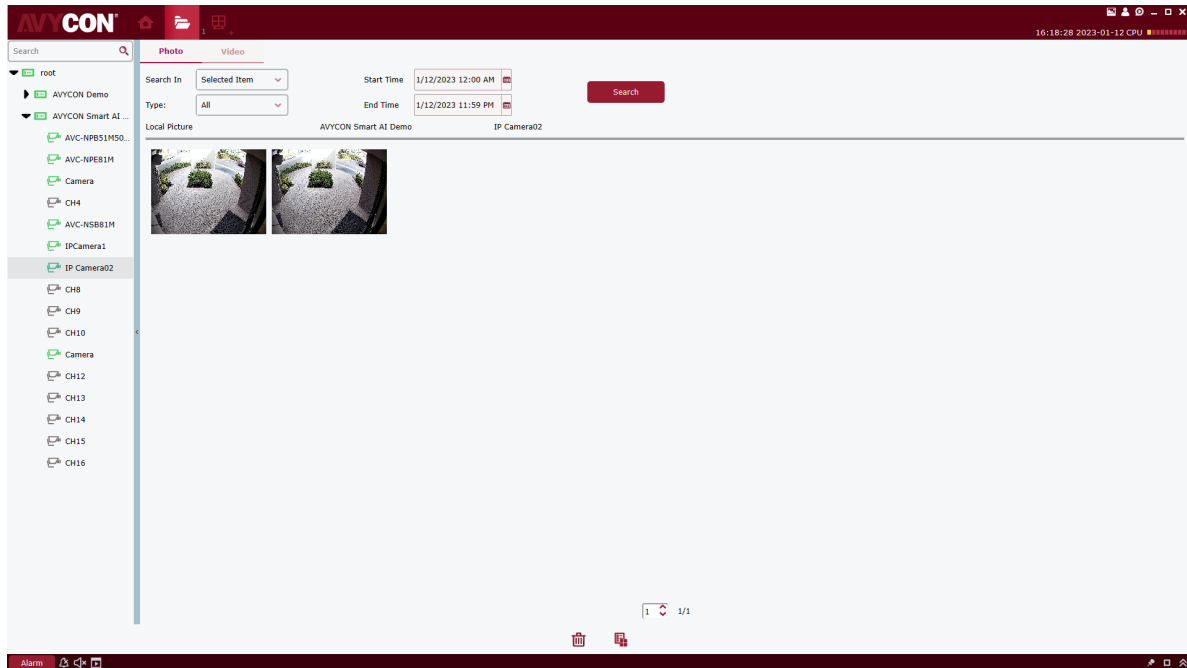




Figure 20-1-2 Search for Local Pictures

Step 3: Double-click on the image you want to play back.

Notes:

Right-click on the image and choose **Show in Explorer**, the folder where the image is stored will pop up. Right-click and choose **Deleted File**, and the image will be removed (the same as clicking on  at the bottom of the screen). Right-click and choose **Copy File** (the same as clicking on  at the bottom of the screen) and it will export the image to another path.

20.2 Playback and Export of Local Videos

Step 1: Select "File Management" from the main menu to enter the File Management interface. Click on "Video" to switch to the video interface.

Step 2: Select the device channel you want to view in the "Device Group" on the left, set the date and time, and click "Search" to search the video. If a video exists on the specified date, it will be displayed, as shown in Figure 20-2-1.

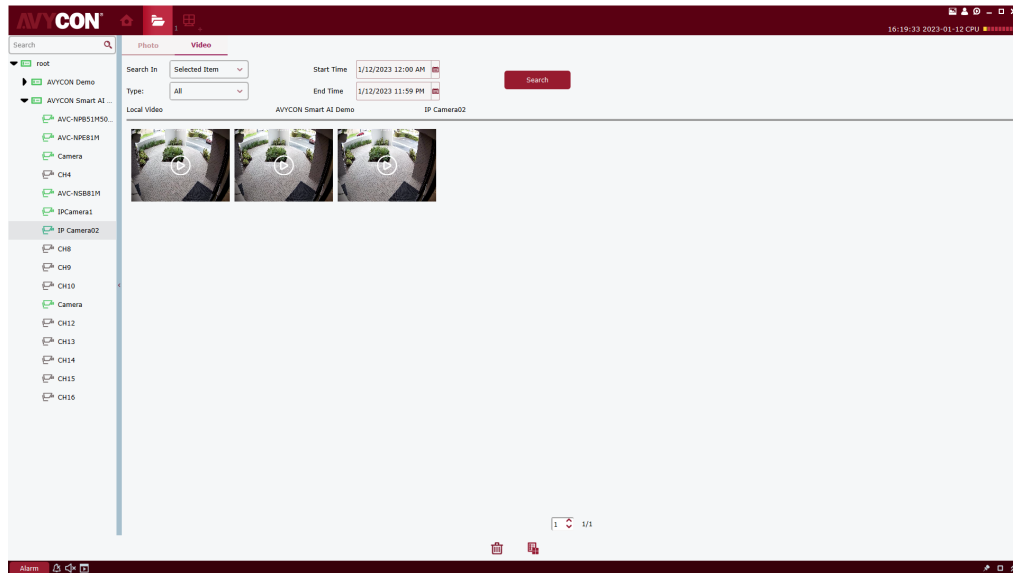


Figure 20-2-1 Local Video Recording

Step 3: Double-click on the local video you want to view, and the video starts playing back, as shown in Figure 20-2-2.

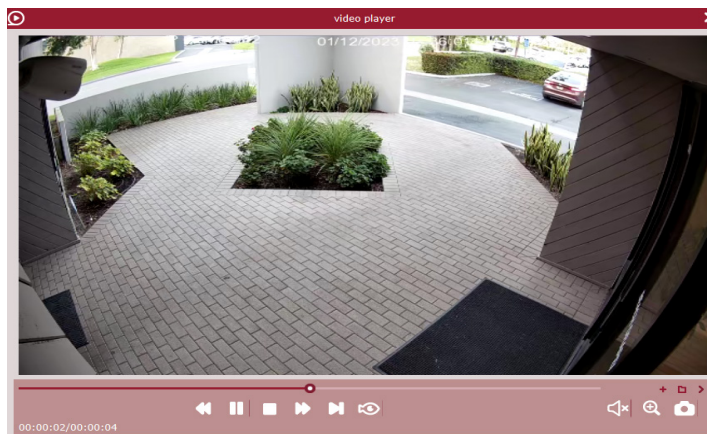




Figure 20-2-2 Playback of Video

Notes:

Right-click on **Show in Explorer** on the image, the folder where the video is stored will pop up. Right-click on **Deleted File** to delete the video (the same as clicking on  at the bottom of the screen). Right-click on **Copy File** (the same as clicking on  at the bottom of the screen) to export the video to a different path.

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