



SECURE_{SERIES}

SECURE CMS (Central Management System) User Manual

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Introduction

Overview

This document describes in detail the configuration and use of the video management of CMS.

Reader

This document is intended for:

- Technical Support Engineer
- System Manager
- System Operator

Symbol Convention

The following symbols may appear in this document, and their meanings are as follows:

Symbol	Description
 DANGER	Alert you to a high risk hazard that could, if not avoided, result in death or serious injury.
 WARNING	Alert you to a medium or low risk hazard that could, if not avoided, result in moderate or minor injury.
 CAUTION	Alert you to a potentially hazardous situation which, if not avoided, result in equipment damage, data loss, performance deterioration, or unanticipated results.
 TIP	Provide a tip that may help in solving a problem or saving time.
 NOTE	Provide additional information to emphasize or supplement important points in the main text.

Server Name

Acronym	Full Name	Note
CMU	Central Manager Unit	Central Manager Server
MDU	Media Distribution Unit	Media Distribution Server
IAU	Intelligent Analysis Unit	Intelligent Analysis Server

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1 Platform Description

The platform can be used for video management of different monitoring scales. It supports centralized management, distributed deployment, multi-user remote access. With user management, device management, server management, alarm management, map management, device configuration, real-time video, video playback, personnel archive management, data statistics, face recognition and other functions. Meets a variety of video surveillance solutions.

1.1 System Function

- Multiple front-end devices can be connected. Support IPC, NVR, face capture camera, panda camera.
- Centralized management and distributed deployment. Unified management of resources such as users and devices, and distributed deployment of servers.
- Authority management. Different users can be assigned different functional rights.
- Device management. Support automatic search, manual addition, batch import of devices.
- User rating management. Support the combination of administrative organization structure to achieve user hierarchical management. The superior can manage the subordinates.
- Organizational management. Users of a specific organization can be restricted to only view the content of their organization's camera.
- Real-time monitoring. Support multi-screen layout preview, round tour preview.
- Video playback. Support multi-picture video synchronous playback.
- Video download. Support downloading NVR and DVR recordings to local clients.
- Map management. Support for electronic map-based video preview.
- Real-time alarm. Support alarm display of front-end devices.
- Data statistics. It can count the alarm data of the platform equipment and online rate of the equipment.
- Personnel information management. The fundamental library for face recognition supports multi-level management and batch import.
- Face recognition comparison. The face of the face capture machine is displayed in real-time and determined by comparing with the fundamental library.
- Search by image. Support fuzzy search for faces and support for finding similar faces through faces of library.
- Attendance management. Support face library for attendance.
- AI recognition. Statistics of vehicle, human, etc.
- Health archives. Manage the health information of personnel, and show the chosen person's temperature.
- Vehicle identify. Real-time view of the vehicle license plate snapshot pictures, relevant warehousing information.
- Attendance management. The face detection cameras can be used to manage employee attendance and face recognition punching.
- Body temperature monitoring. Support human body thermometer to monitor body temperature in the face database to form a health archive.
- Thermal temperature management. Support for thermal imaging capture, snap search and historical retrieval.
- Monitoring center. Comprehensive monitoring center, visual comprehensive management interface, which mainly displays the current main data of the platform, conventional monitoring, AI intelligence, etc.
- Temperature screening. Support preview real-time temperature measurement video, view temperature measurement personnel information, summary statistics of the number of temperature measurement on the day.
- Classification query. Support retrieval of picture data of strangers, registered personnel, and filtered personnel, and view detailed information of captured pictures.
- Personnel track: Support to view the action tracking of the captured person in the Gis map.
- Target on-screen persons. Support to view the associated faces in the target on-screen person, export and add to face library.
- Event Linkage: set the action of linkage, it will send the alarm if the condition is meeting of setting. Control the external alarm system, or set E-mail to inform the users.

- TV wall: set TV wall layout, bind the channels to TV wall, push the stream of channels through decoder. The live video will show on TV wall immediately.
-

1.2 System Components

1.2.1 Central Management Server

The central management server centralizes user management, authority management, device management, server management, alarm management, electronic map management, face database management, etc.; Running as a server, can be installed on a separate physical server or installed with other components. Users must first connect to the central management server for permission authentication, and then connect to the media distribution server, intelligent analytics server to use the relevant features.

1.2.2 Database Server

The central management server and intelligent analysis server use the MySQL database storage system configuration; and run as a server, and are installed with the central management server.

1.2.3 Media Distribution Server

The media distribution server forwards the audio and video streams of the device to the requesting user, ensuring high performance with end-to-end low latency; support running as a service, can be installed on a separate physical server or installed with other components.

When the media distribution server is installed separately on a server, the IP address of its central management server must be configured so that it can be managed by the central management server. The performance indicators of the media distribution server are as follows:
NIC is Gigabit

Table 1-1 NIC parameters

Channel	Camera Bitrate	Input Bitrate	Output Bitrate
200	4 Mbps	800 Mbps	800 Mbps
400	2 Mbps	800 Mbps	800 Mbps
500	1.5 Mbps	800 Mbps	800 Mbps

1.2.4 Intelligent Analysis Server

The intelligent analysis server is used for face recognition applications; it only supports cameras with face detection; it runs as a service and can be installed on a separate physical server or installed with other components. For high performance requirements, it is recommended that the intelligent analysis server be installed separately on a physical server.

The V1.2 and higher version of the intelligent analytics server only supports CPU.

Reference:

Type	Model	ROM	Channel of face detection
CPU	Intel(R) Core i5-7500	8 G	1-3

CPU	Intel(R) Core i7-8700	8 G	2-8
CPU	Intel(R) Xeon(R) cpu E5-2630 v4	16 G	4-10
Face-box	Intel(R) Core i5-8500 Face-box *4	8G	6-12

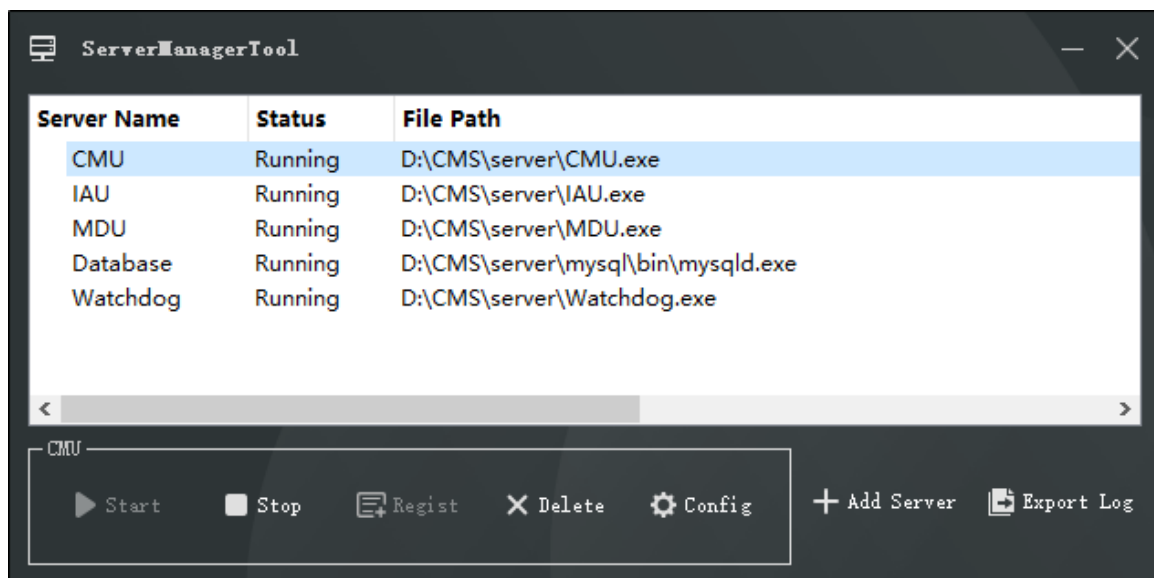
NOTE

In the same configuration, the fewer the access cameras, the higher quality of real-time video, the denser the flow of people (human faces), the worse quality of real-time video, and can be adjusted according to actual needs. This is only a reference, please refer to actual configure.

1.2.4.1 Server Management Tool

The server management tool is used to manage the platform server components, which exclude the client; displaying the running status of the component, it can also control the startup, stop, and delete the component; you can manually add the service. If the service component does not start normally, it will flash a reminder in the system tray to find the problem in time. The tool will launch as soon as the installation is successful. As shown in figure 1-1.

Figure 1-1 Server Management UI



Configuration: configure the servers(IAU and MDU) are associated with the corresponding the CMU server.

Export log: export the logs of servers to local folder.

Manager Server IP:

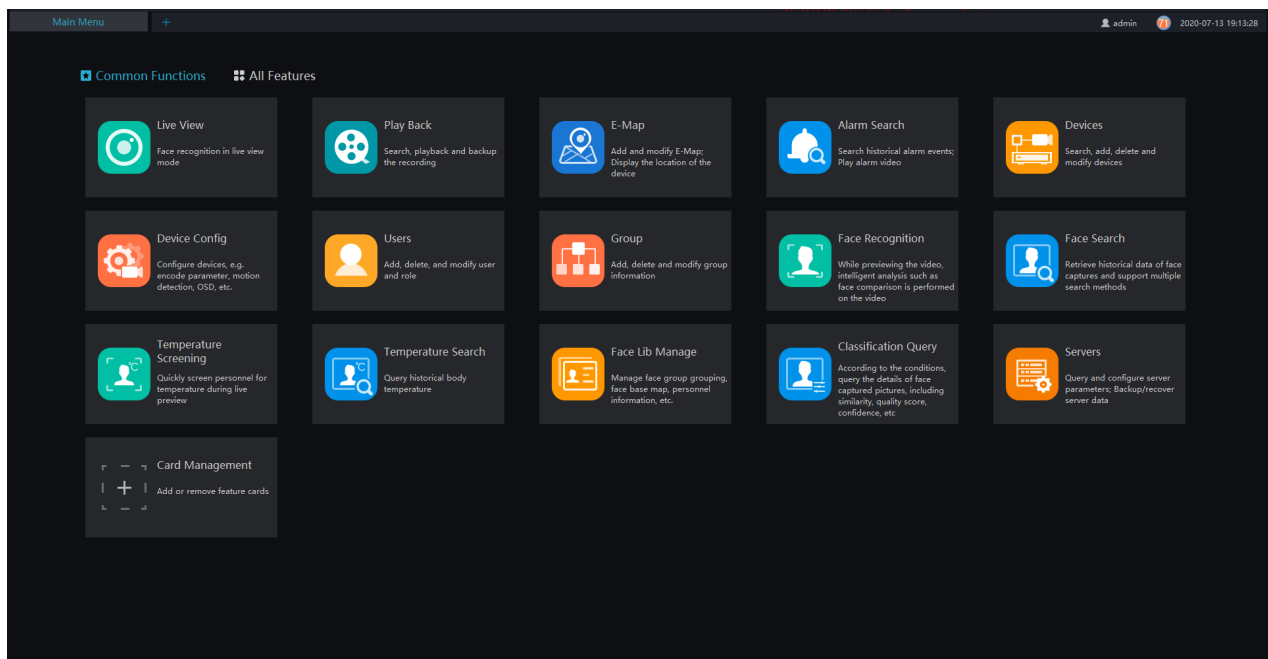
Manager Server Port:

1.2.5 Client

1.2.5.1 About PC Client

Currently, the client only supports Windows system. It is a kind of software specially designed for video management. Users can remotely access real-time video and video recordings, and manage users, devices, servers, alarms, etc. and meanwhile control devices. The client integrates common users and administrator users to facilitate unified management of resources. The interface is as follows:

Figure 1-2 Client interface



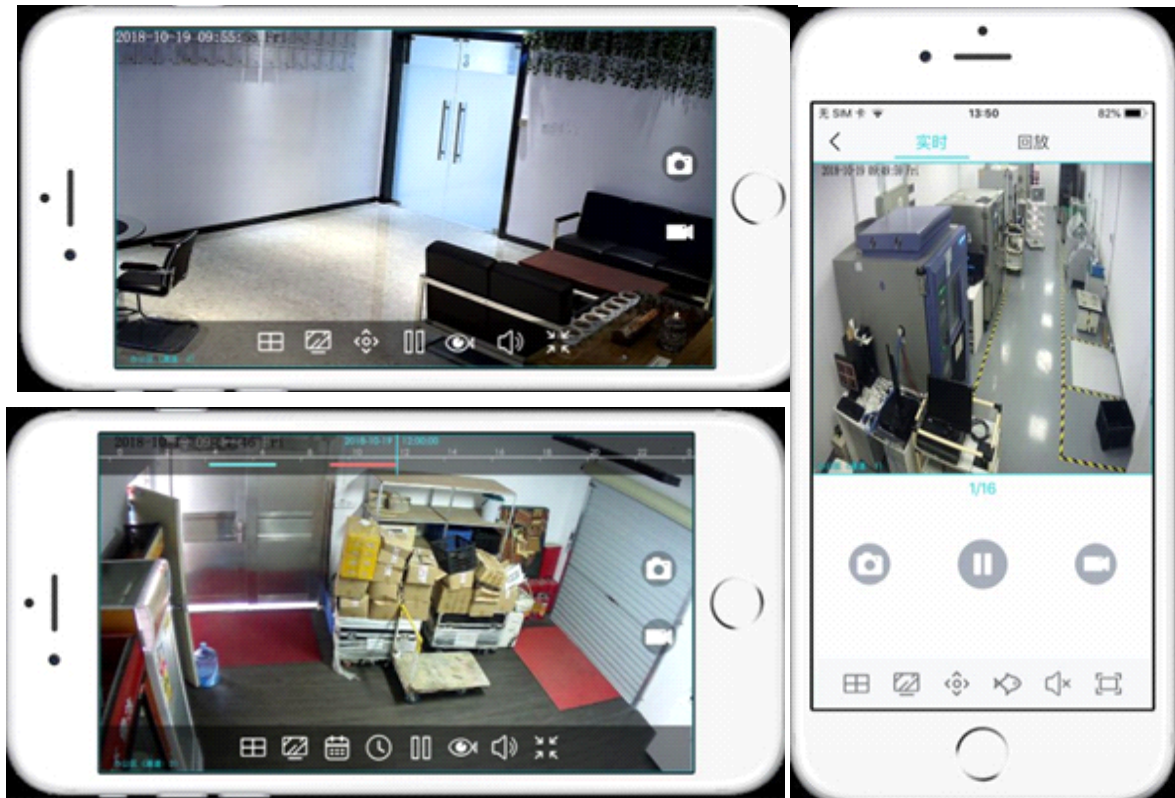
NOTE

After the client login, check the client server and versions. If they do not match, a note will show "Client and server versions do not match."

This situation is generally caused by the client and server not being installed synchronously. It is recommended to use it after updating and synchronization to avoid it.

1.2.5.2 About Mobile Client

The Mobile client provides users with wireless-based video surveillance, which allows users to remotely access real-time video and video recorders, receive device alarms and control devices. The interface is as follows



1.3 System Requirement



CAUTION

OS Not support Microsoft Windows 32 bit anymore.

Name	PC Client	Central Management Server	Media Distribution Server	Intelligent Analysis Server (CPU environment)	Intelligent Analysis Server (GPU environment)
CPU	Intel® Core™ i5-7500 or better	Intel® Core™ i5-7500 or better	Intel® Core™ i5-7500 or better	Intel® Core™ i7 or better	Intel® Core™ i7 or better
RAM	8 GB or more	8 GB or more	8 GB or more	8 GB or more	8 GB or more
Network Card	Gigabit/s				
HDD	50 GB or Above	50 GB or Above	50 GB or Above	50 GB or Above	50 GB or Above

OS	Microsoft® Windows® 7 Pro (64 bit) Microsoft® Windows® 10 Pro (64 bit) Microsoft® Windows® 10 Enterprise (64 bit) Microsoft® Windows® Server 2012 Microsoft® Windows® Server 2016				
Software	DirectX 11 or above	_____	_____	_____	_____
Display Resolution	1600×960 and above, default 1920 x 1080	_____	_____	_____	_____
Video Card	_____	_____	_____	_____	_____
GPU	_____	_____	_____	_____	NVIDIA GTX 1050 or better

1.4 Deployment Planning



This content is suitable for administrators to understand the platform before installing, you can choose the appropriate deployment according to different plans.

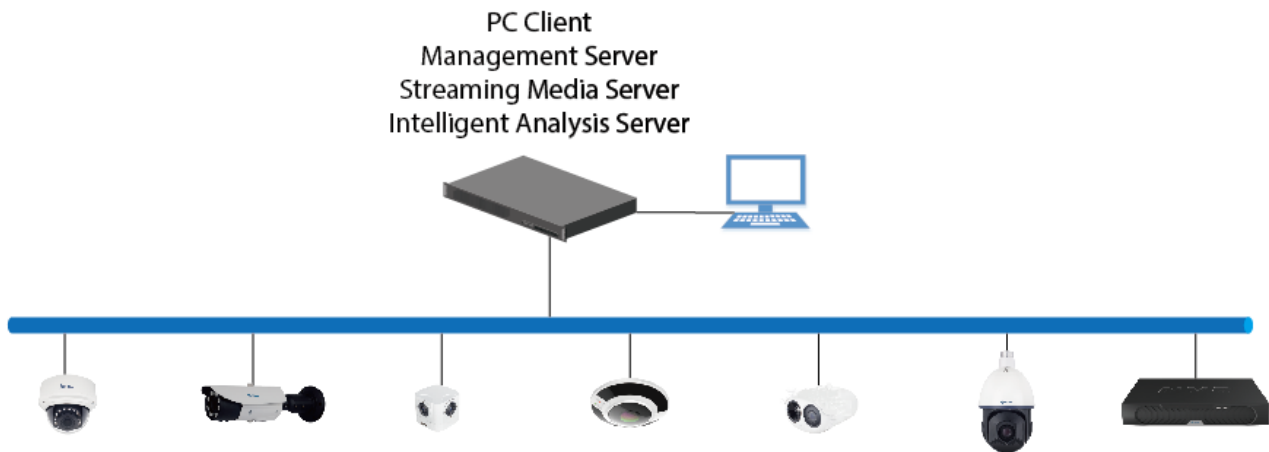
The platform has good scalability and can support three deployment methods.

- Mini type: All components of the platform are installed on the same machine.
- Middle type: The platform client and server are installed on different machines.
- Large: All components of the platform are installed on different machines.

1.4.1 Mini Method (Standalone Deployment)

All components of the platform, including server components and client components, are deployed on the same physical machine for easy deployment of small-scale monitoring applications.

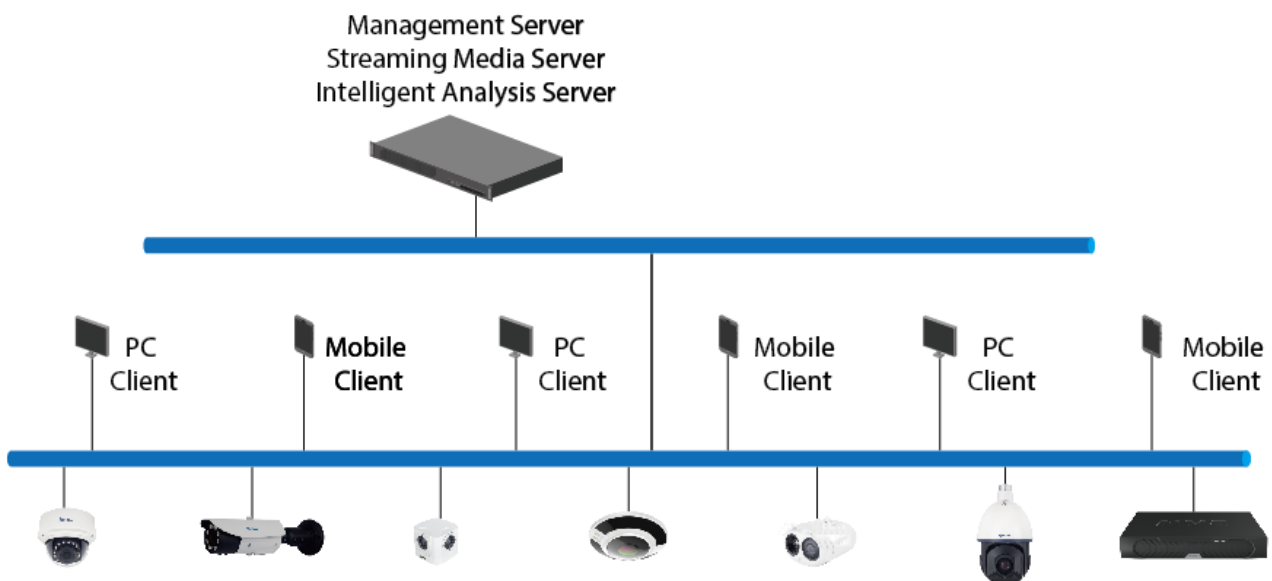
Figure 1-3 Mini method



1.4.2 Middle Method (Distributed Deployment)

You can install all the server components on one physical machine and the client installs multiple machines.

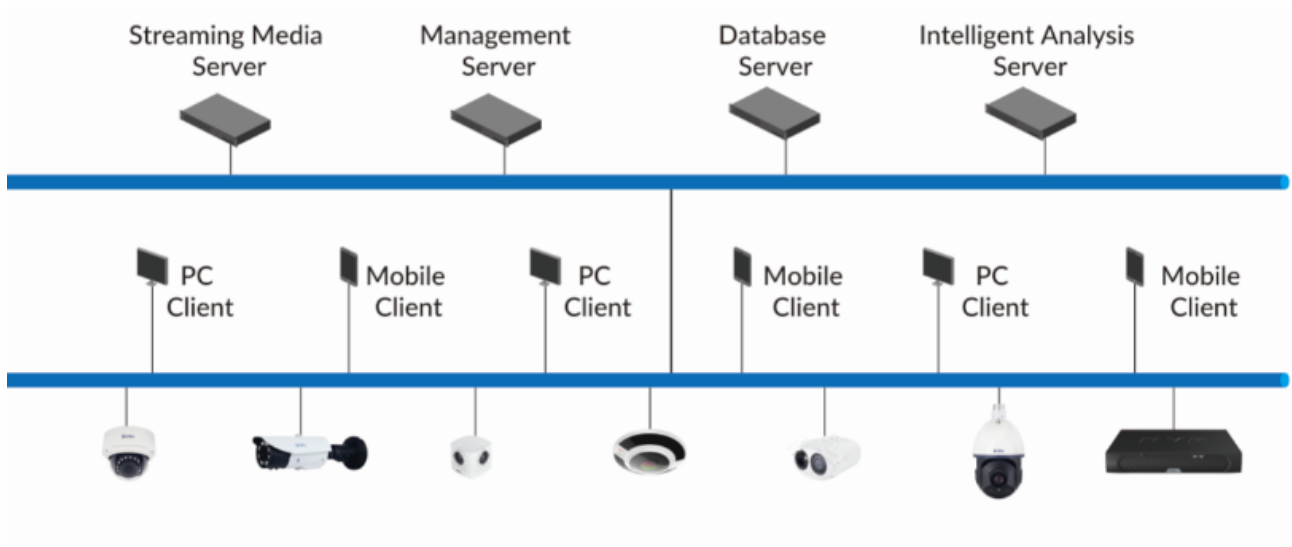
Figure 1-4 Middle method



1.4.3 Large Method (Distributed Deployment)

If the system is large or you can install each server component on a different machine and the client installs multiple machines. One or more MDU and IAU can be deployed according to actual needs.

Figure 1-5 Large method

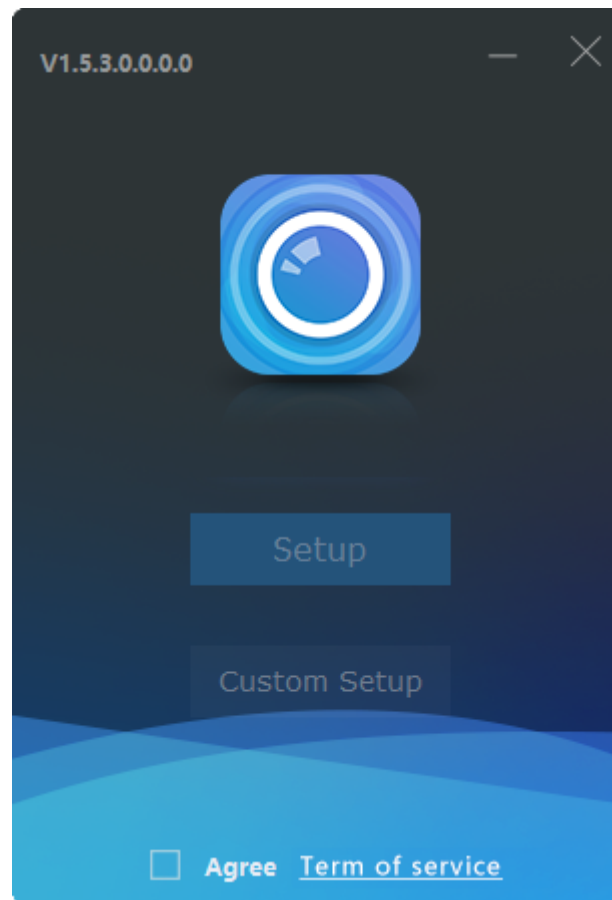


2 Installation

2.1 One-Click Installation

One-click installation is a simplified installation of the Mini type, and the installation process does not require any configuration. The platform is quickly installed on a single machine and is installed by default in the system disk C:\Program Files (x86)\CMS directory. After installation, the server component and client program are automatically started.

Figure 2-1 One click installation

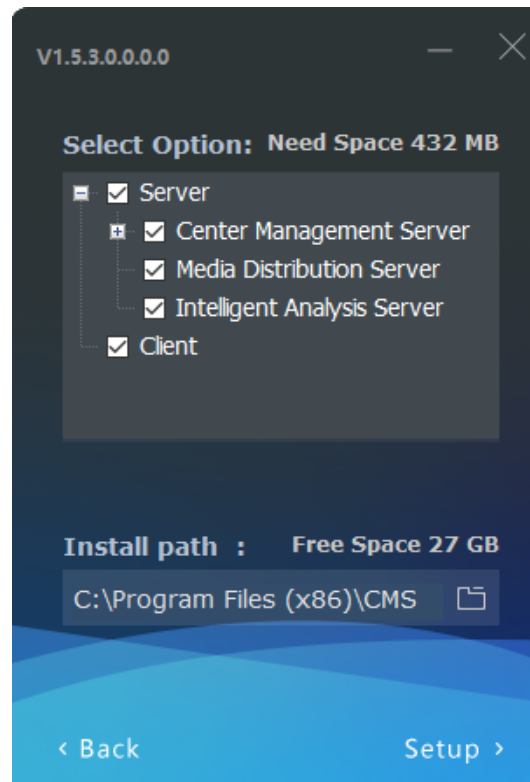


2.2 Custom Installation

Custom installation supports flexible installation. You can choose three installation methods, which correspond to the three deployment modes of the platform. The way is as follows:

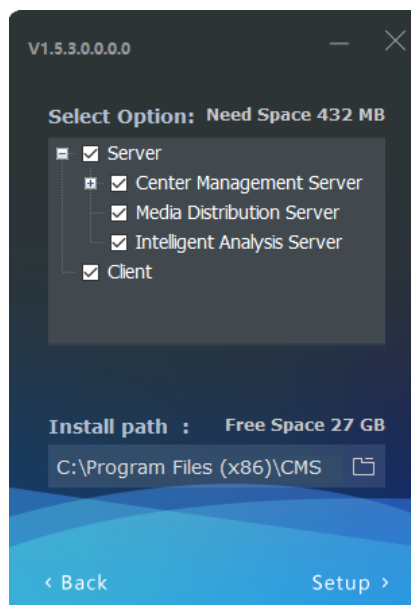
- Mini method: All components of the platform can be installed on a single machine; it is similar to “one click installation”.

Figure 2-2 Installtion interface

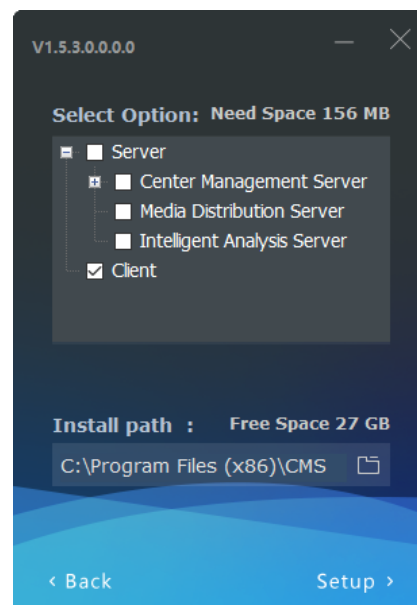


- Middle method: The Sever and Clients installed on differnet machines, build up a distributed deployment

Figure 2-3 Server installed on a machine



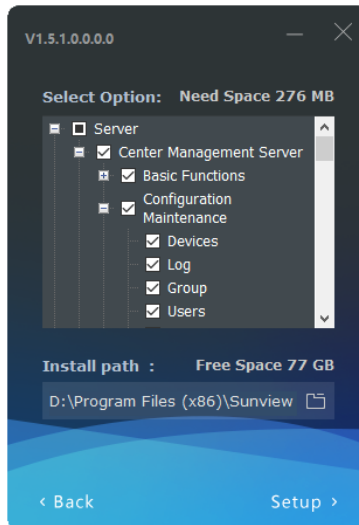
Client installed on another machine



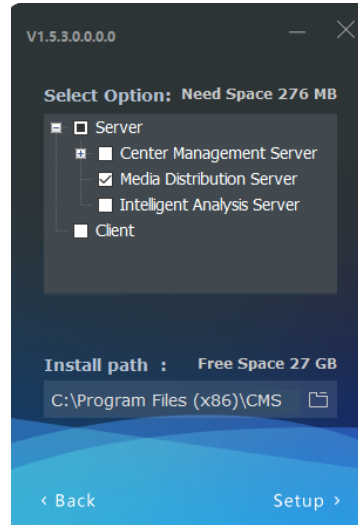
- Large Method: All components of the platform are installed on different machines to form a larger system

Figure 2-4 Installing

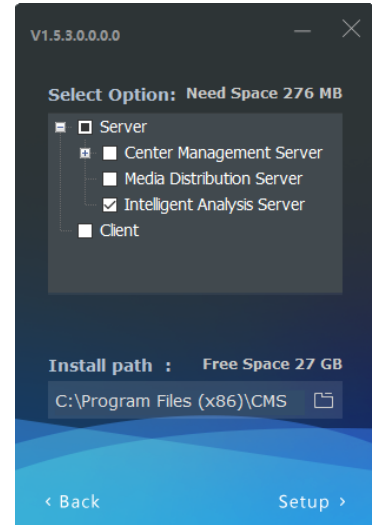
CMU on A machine



MDU on B machine



IAU on C machine



The central management server can install some functions or all functions when installing, user can tick them manually.



NOTE

In distributed deployment, the firewall is turned off after the installation of the program is completed or the program is allowed to pass through the firewall. Otherwise, when logging in remotely, it will be intercepted by the firewall, resulting in login failure.

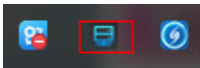
After the server is installed, you need to use the server management tool to configure the IP of the central management server of the media distribution server and the intelligent analysis server, which is convenient for unified management by the central management server. The tool is automatically displayed in the system tray after the system is installed. After displaying the main interface, select the corresponding service and click “Configure”, as shown in figure 2-5.



NOTE

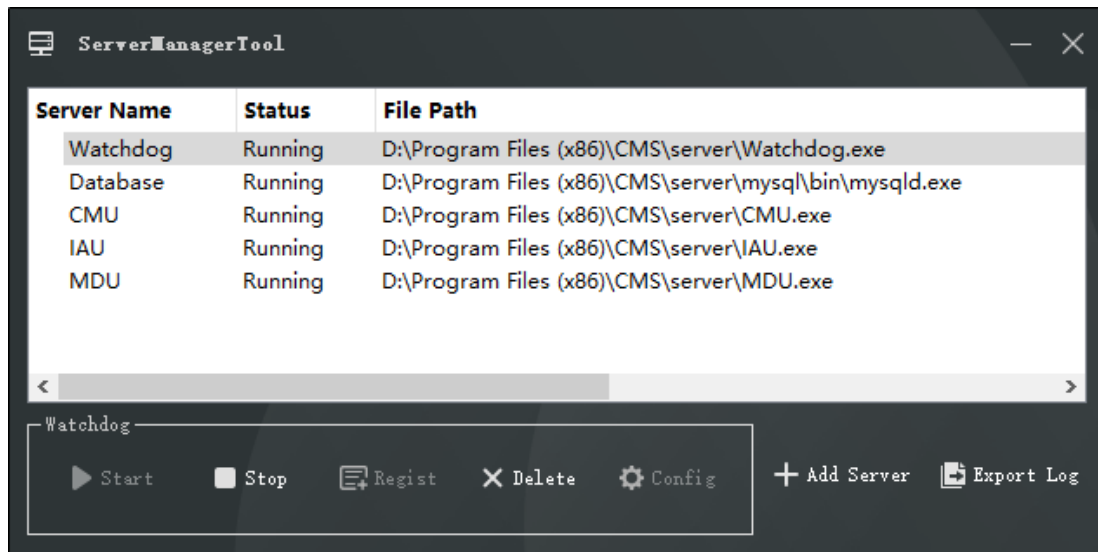
If the installation is failed, it is recommended to close the firewall or antivirus software.

The server management tool runs automatically after the server is installed. The system tray icon is



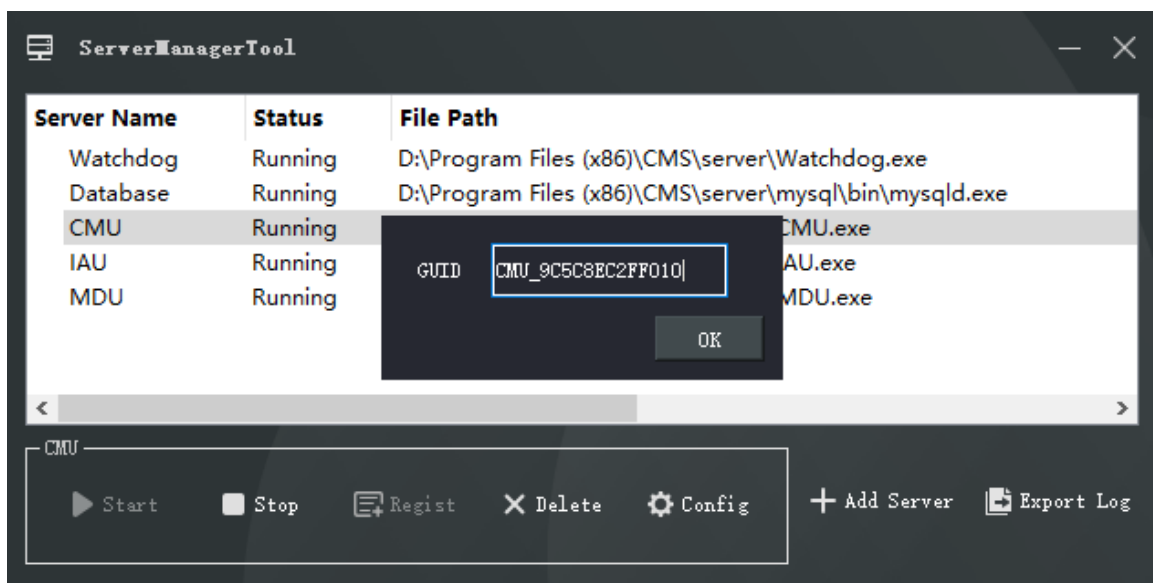
, click and open the menu.

Figure 2-5 Server manager tool



2.3 Retrieve password

Figure 2-6 GUID



If the user forget the password, please provide the GUID for us, we feedback a new password lasting for one day. User can use it to modify a new password.

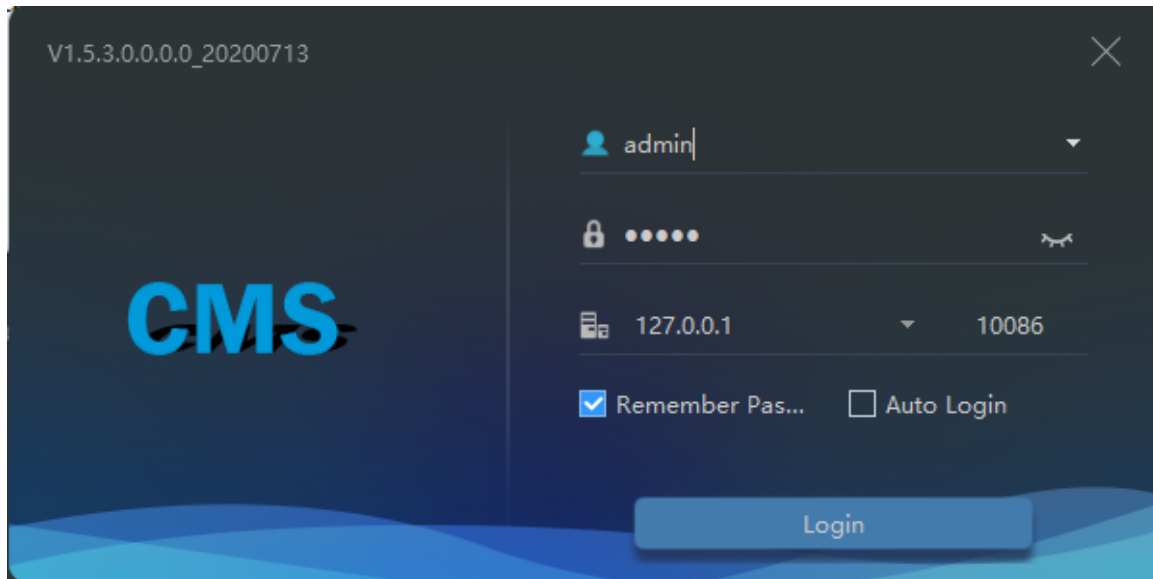
3 Login

Server installation is complete, double click on the desktop icon , input the user, password, and central management server IP, click "Login", the login interface is shown in figure 3-1

NOTE

The default user name and password are both admin. You should modify after first login to make sure safety of system.

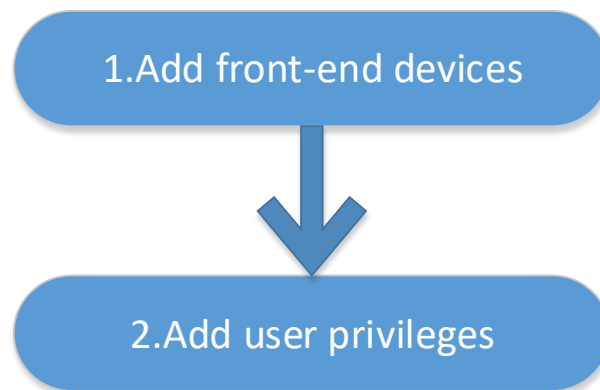
Figure 3-1 Login interface



4 Quick Start

After both the client and the server are successfully installed and running normally, the administrator can login to the system through the client to quickly use the platform as follows. The platform includes basic monitoring applications and smart applications. The smart application is suitable for face recognition and supports our camera with face detection function, including face capture camera and human body thermometer.

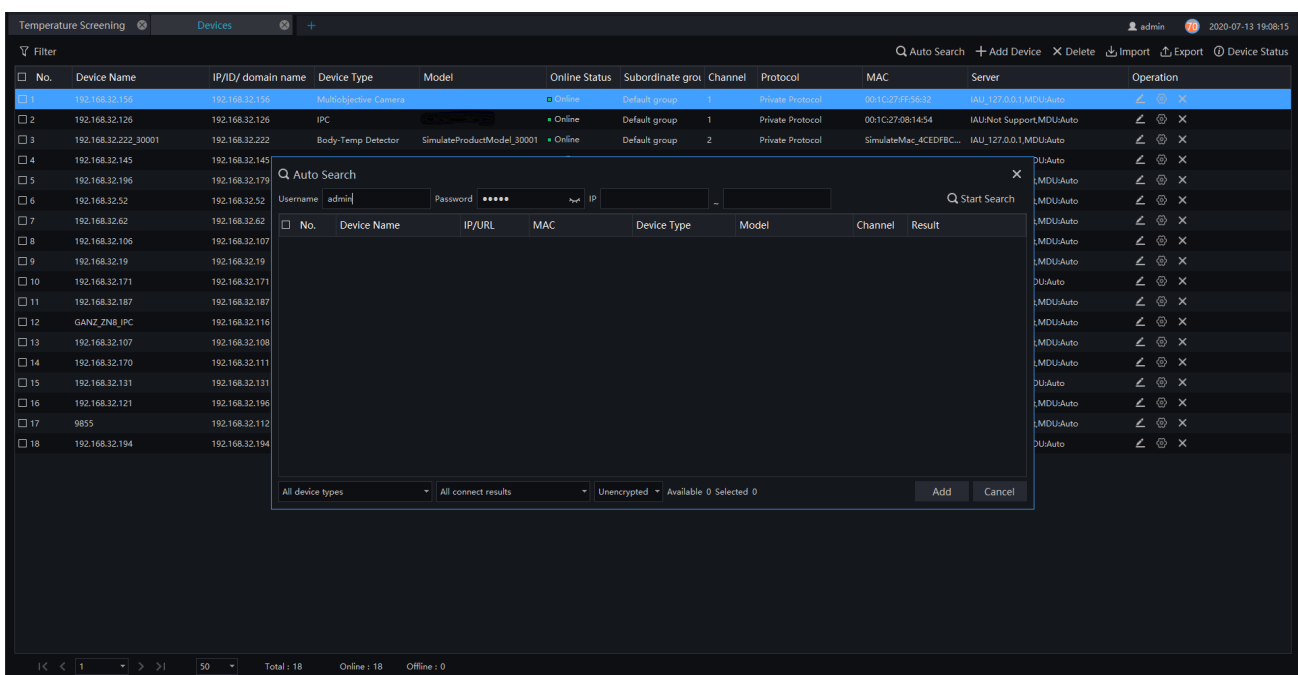
4.1 Monitoring Application Configuration Process



4.1.1 Add Front-end Device

Enter the main interface, open "device management, for the introduction of the function menu, you need to cut out the icon, now just a name and then directly interface, it seems more monotonous", if the device and the platform are in the same network segment, you can quickly add by automatic search Equipment, as shown in Figure 4-1:

Figure 4-1 Add device



After selecting the device, click “Add” and the camera can assign the specified server. Figure as below:

4.1.2 Add User Permissions

The system has administrator and operator roles by default. You can create users based on the default roles directly. You can assign menu permissions and channel permissions to users. As shown in Figure 4-2:

NOTE

The monitoring application does not have to assign personnel file permissions, which is used for smart (face recognition) applications.

Figure 4-2 Add user

+

Add User

×

Username

Password

Role Name

Administrator

Group

Default

Remark

Menu Privilege

Channel Privilege

Face Lib Privilege

☒ Select All

☒ Live View

☒ Log

☒ Users

☒ Device Config

☒ Health Archives

☒ License plate manage

☒ Face match config

☒ Thermal image config

☒ Playback

☒ E-Map

☒ Alarm Search

☒ Servers

☒ Vehicle identify

☒ Face search

☒ License match config

☒ Thermal image search

☒ Devices

☒ Real-time alarm

☒ Report Statistics

☒ Temperature Search

☒ Entrance Guard

☒ License plate search

☒ Temperature config

☒ Thermal image history

☒ Layout

☒ Group

☒ Face Recognition

☒ AI Recognition

☒ Face Lib manage

☒ Person and car search

☒ Alarm mail

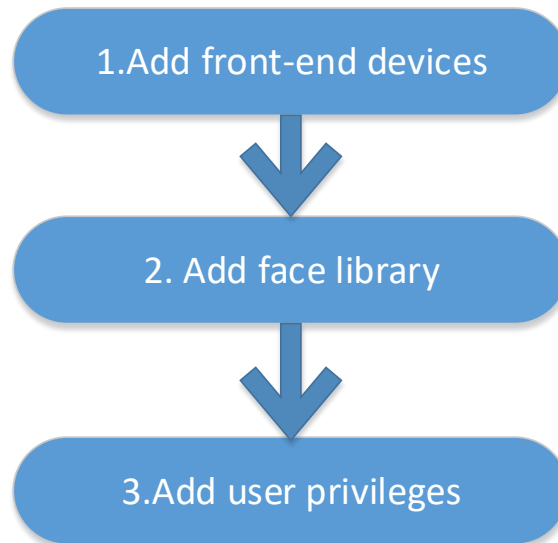
☒ Attendance preview

Save and New

Add

Cancel

4.2 Intelligent Application Configuration Process



4.2.1 Add Front-End Device

Refer to 4.1.1

4.2.2 Add Face Database

This function is used for cameras which support face detection.

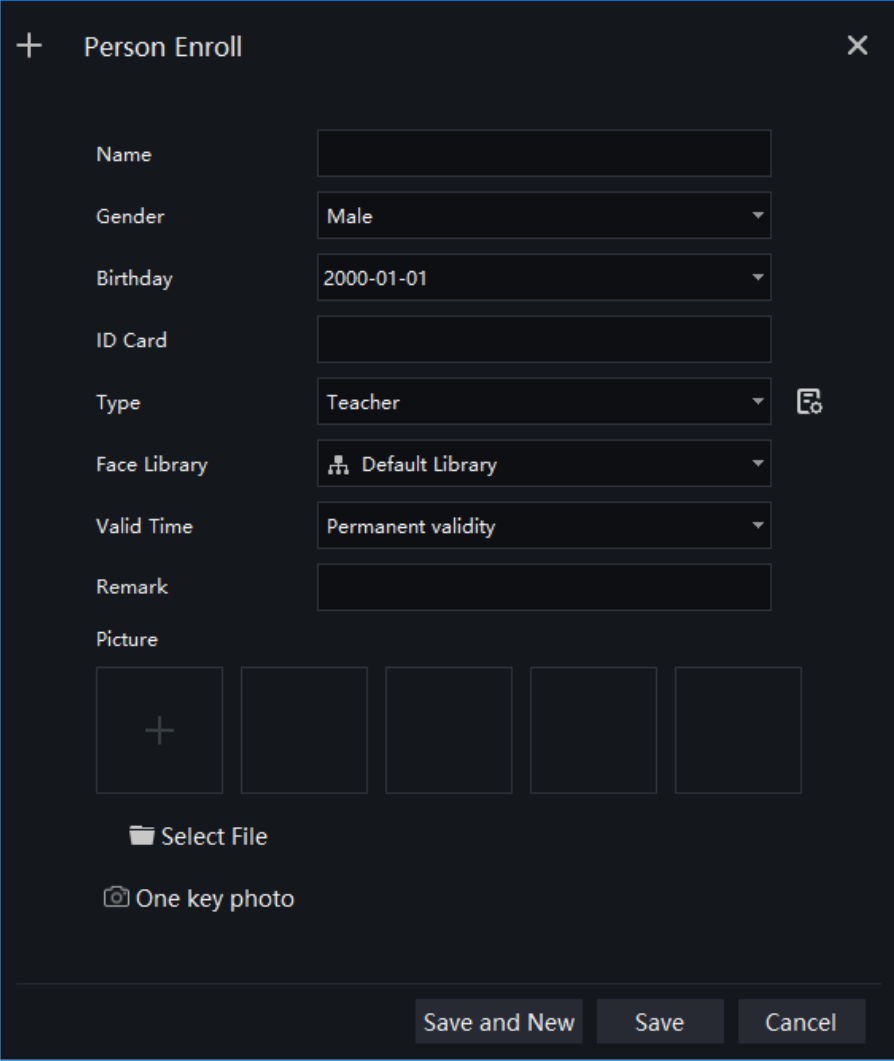
NOTE

Enter the main interface, open “Archives Library” > "Face Library", you can add a face library, as shown in Figure 4-3.

Figure 4-3 Add face library UI

After selecting the face library, you can add personnel information. You should select a face photo, as shown in Figure 4-4

Figure 4-4 Person enroll



The image shows a 'Person Enroll' form with the following fields and options:

- Name:** Text input field.
- Gender:** Dropdown menu with 'Male' selected.
- Birthday:** Date picker showing '2000-01-01'.
- ID Card:** Text input field.
- Type:** Dropdown menu with 'Teacher' selected. A document icon is visible to the right.
- Face Library:** Dropdown menu with 'Default Library' selected.
- Valid Time:** Dropdown menu with 'Permanent validity' selected.
- Remark:** Text input field.
- Picture:** A row of five image boxes. The first box contains a '+' icon, indicating a photo upload area.
- Select File:** A button with a folder icon.
- One key photo:** A button with a camera icon.
- Buttons:** 'Save and New', 'Save', and 'Cancel' buttons at the bottom right.

4.2.3 Add User Permissions

Refer to 4.1.2 , However, if you need to assign different personnel file permissions to different users, you need to assign the file permissions after assigning channel permissions. As shown in Figure 4-5.

Figure 4-5 Add role

+

Add Role

×

Role Name

Remark

Group

Default

Menu Privilege

Channel Privilege

Face Lib Privilege

☒ Select All

☒ Live View

☒ Log

☒ Users

☒ Device Config

☒ Health Archives

☒ License plate manage

☒ Face match config

☒ Thermal image config

☒ Attendance statistics

☒ Playback

☒ E-Map

☒ Alarm Search

☒ Servers

☒ Vehicle identify

☒ Face search

☒ License match config

☒ Thermal image search

☒ Attendance config

☒ Devices

☒ Real-time alarm

☒ Report Statistics

☒ Temperature Search

☒ Entrance Guard

☒ License plate search

☒ Temperature config

☒ Thermal image history

☒ Traffic statistics

☒ Layout

☒ Group

☒ Face Recognition

☒ AI Recognition

☒ Face Lib manage

☒ Person and car search

☒ Alarm mail

☒ Attendance preview

☒ Temperature statistics

Save and New

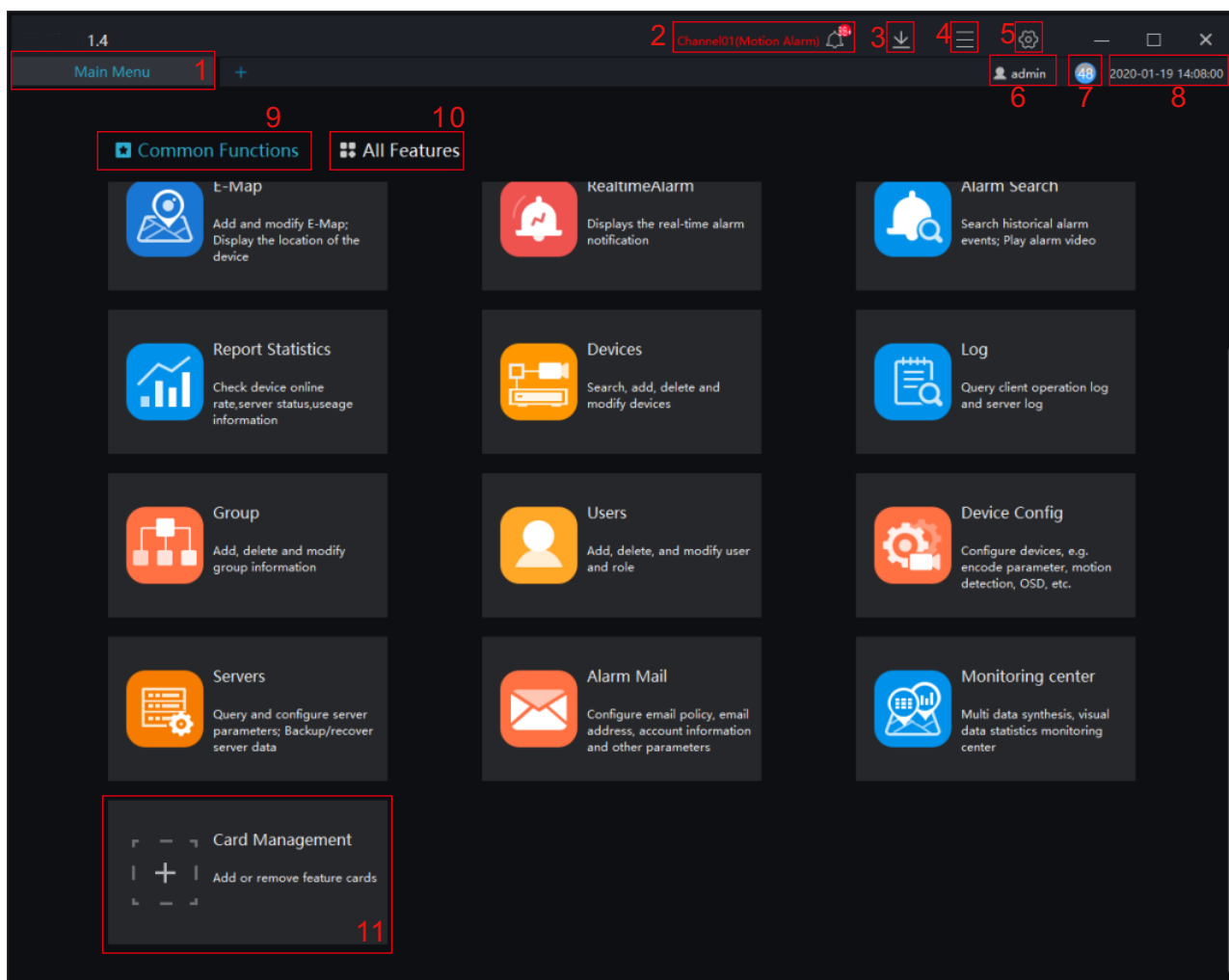
Add

Cancel

5 Main Menu Page

The user enters the function page directly after logging in for the first time, as shown in the figure.

Figure 5-1 Main menu page

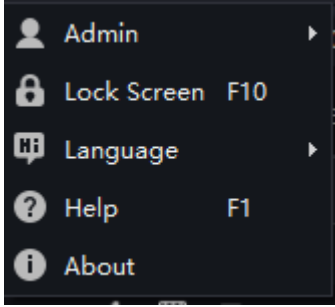


TIP

Click the function in the display area to view the corresponding function module separately. Click to drag outward, the function page can be displayed in multiple screens, which is convenient for multi-page and multi-window to view detailed information.

Table 5-1 Main Interface Introduction

No.	Function	Description
1	Main menu page	Main page, user can choose all function at this page
2	New	Click and built a new main menu page

No.	Function	Description
3	Alarm Message	Alarm message reminder, click enter the real-time alarm interface directly; more details please refer to Chapter Real-time alarm.
4	Backup	Backup the task, click to display the list of tasks backup and backup history.
5	Operate	 User: Switch users and modify passwords. Lock screen: Click to lock the screen, enter the password to unlock the lock screen, and the password is the login password. Language: there are nine languages can be chosen. Help: Click to go to the help page for instructions. About: Platform version information.
6	Setting	Click to enter the system configuration, you can set the basic settings, file path, hotkey setting, snapshot setting, log export as shown in Figure 5-2. Click the drop-down menu to select a specific setting. Click "Save" to save the relevant settings.
7	User	Show current user.
8	Run status	Show CPU and RAM running status.
9	Date and Time	Current Date and Time.

No.	Function	Description
10	Function display area	All function modules are displayed, and the function interface is quickly entered. You can drag the function module to change the placement position. Basic function: Live View, Playback, Layout, E-map, Real-time Alarm, Alarm Search, Report Statistic, Monitoring Center, Event Linkage, TV Wall, as shown in Figure 5-3. Configuration Maintenance: Devices, Log, Group, Users, Device Config, Servers, Alarm Mail, as shown in Figure 5-4. Face Recognition: Face Recognition, Face Library Manage, Face Search, Face Match Config, Classification Data Query, as shown in Figure 5-5. License Plate Recognition: License Plate, License Plate Search, License Plate Manage, License Match Config, as shown in Figure 5-6. Multi-target Recognition: AI Recognition, Intelligent Search, Traffic Statistics, as shown in Figure 5-7. Attendance: Attendance Preview, Attendance Statistics, Attendance Config, as shown in Figure 5-8. Temperature Monitor: Temperature Screening, Temperature Search, Health Archives, Temperature Config, Temperature Statistics, as shown in Figure 5-9. Thermal Imaging: Thermal Image Config, Thermal Image Search, Thermal Image History, as shown in Figure 5-10.
11	Card management	Add or remove feature card to common functions interface, as shown in Figure 5-11.

Figure 5-2 System Setting

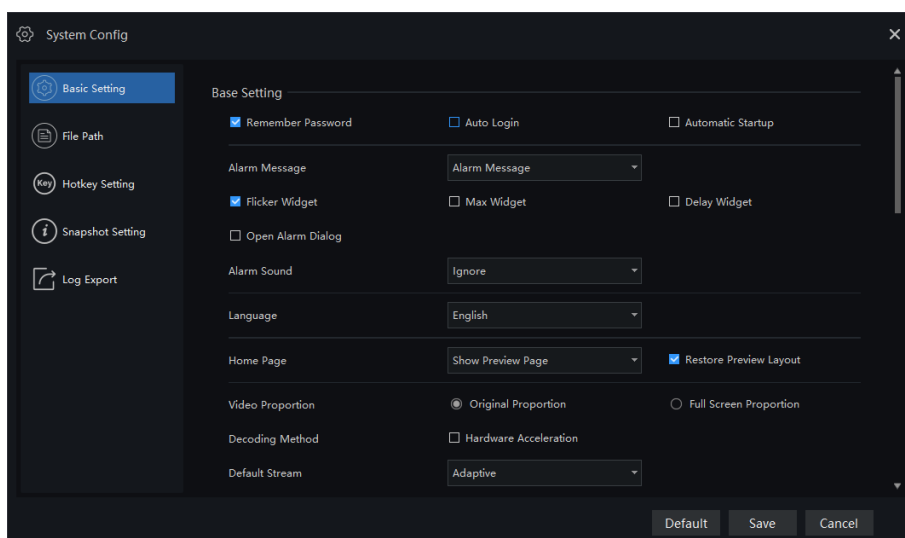


Figure 5-3 Basic Functions

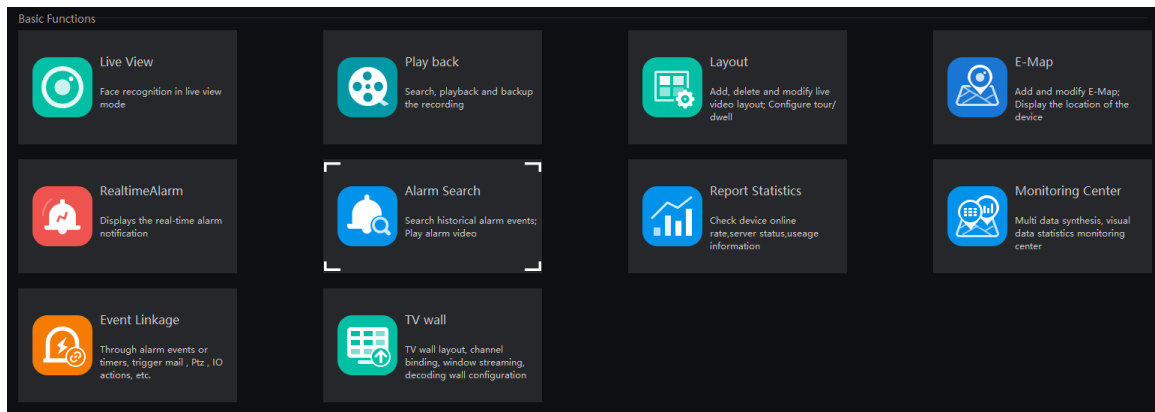


Figure 5-4 Configuration Maintenance

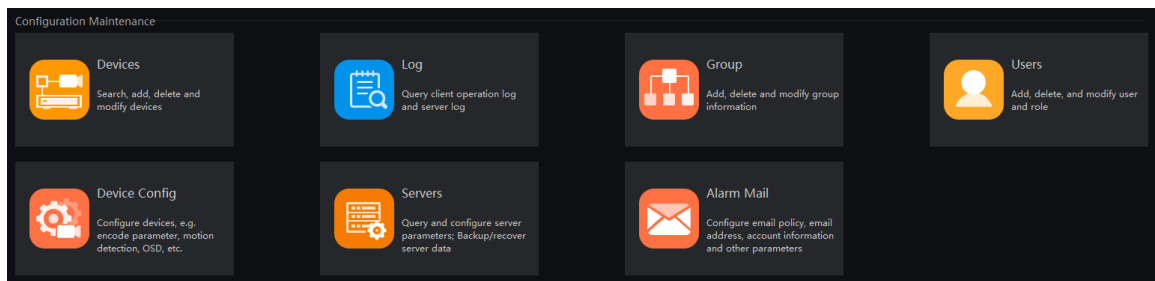


Figure 5-5 Face Recognition

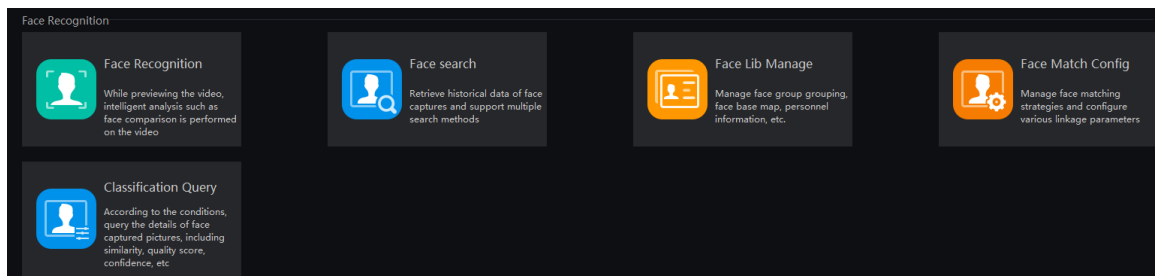


Figure 5-6 License Plate Recognition

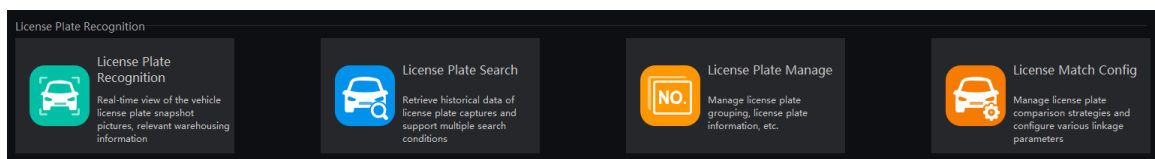


Figure 5-7 Multi-target Recognition

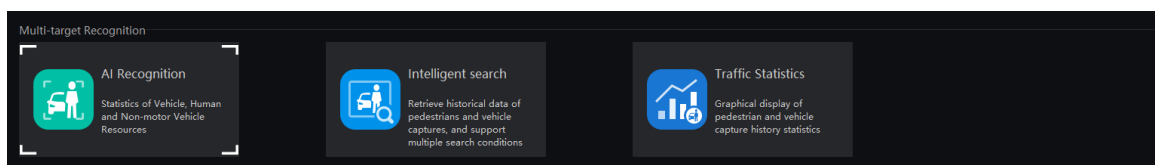


Figure 5-8 Attendance

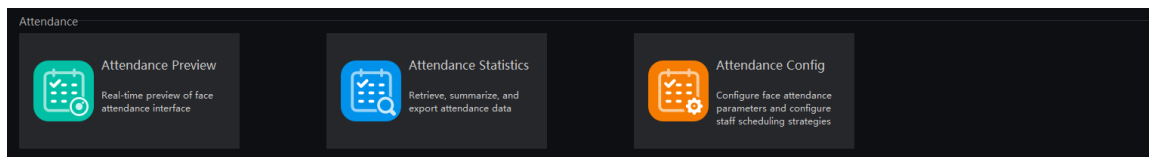


Figure 5-9 Temperature Monitor

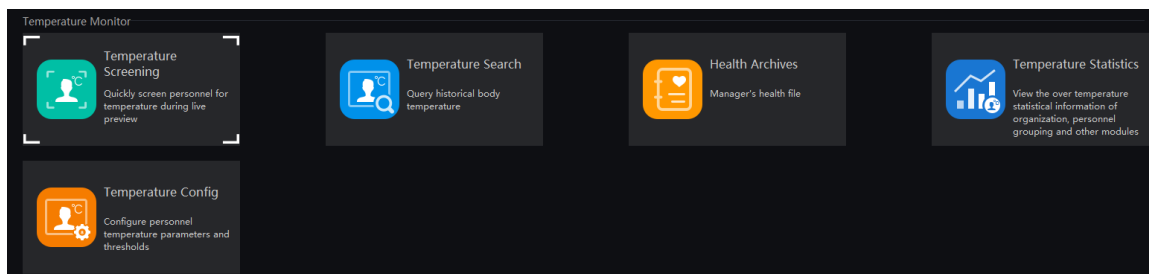


Figure 5-10 Thermal Imaging

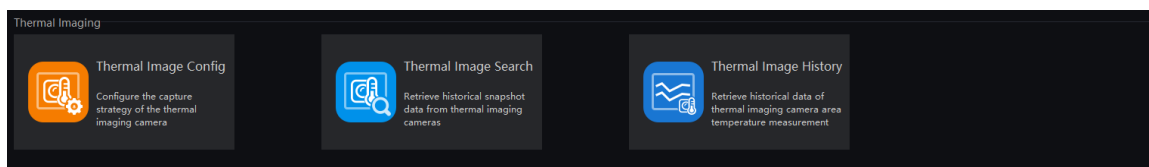
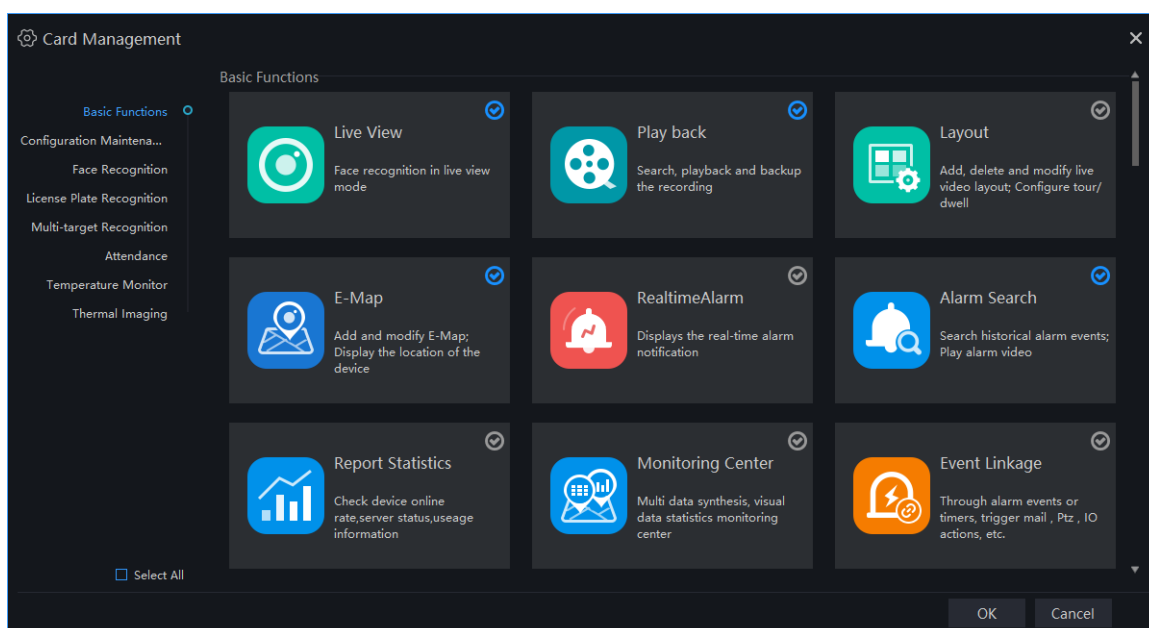


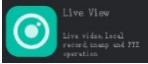
Figure 5-11 Card management



6 Basic Functions

6.1 Live view

At live view interface, you can watch the real-time video , real-time cruise video, local video, set screenshot ,open the audio, start the voice intercom, zoom in the video, switch the code stream, save the layout, 3D positioning, and control the PTZ. The right-click menu can quickly set video parameters.

On the main menu page, click  to enter detailed page, as shown in Figure 6-1

 **TIP**

Support opening up to maximum 4 live view windows simultaneously, and can use mouse to drag out, convenient for multiple screens display synchronously.

Figure 6-1 Live view UI

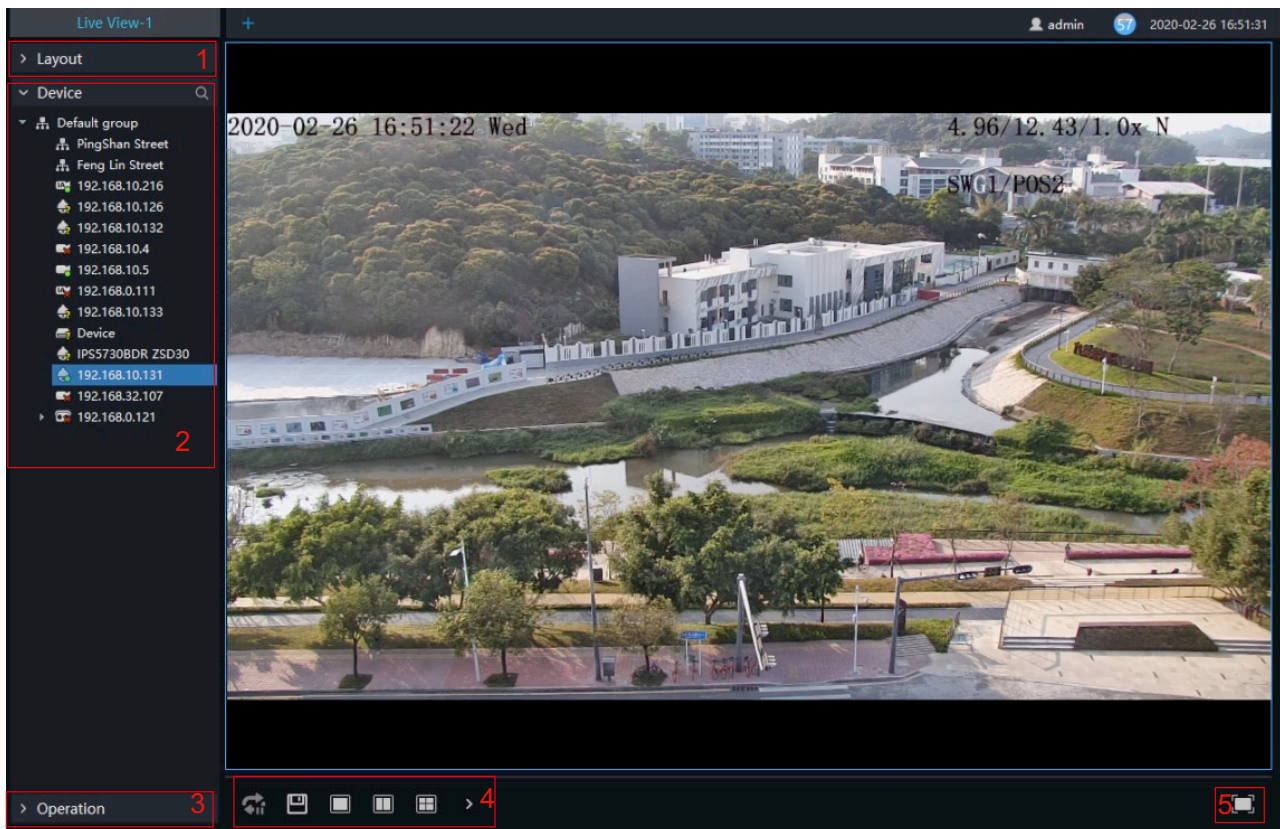


Table 6-1 Live view

No.	Function	Description
1	Layout	Video display format, add the layout.
2	Operation	Set dome device PTZ/ Image parameter.

No.	Function	Description
3	Video display layout	Start the cruise, save the current layout, single screen, four screens, support maximum 64 screens 
4	Operation	Set dome device PTZ/ Image parameter.
5	Full screen	Full screen

6.1.1 Layout

“Layout function interface” can be used to add layout to bind the channel and window, enter “Function preview interface” click layout list , the complete layout list will be shown, double click a layout name , real-time videos of all the channels in this layout will be displayed.

6.1.2 Device

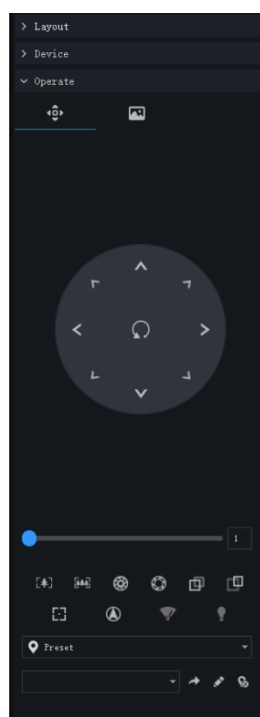
Display the device list under current user account, users can watch the real-time video by double clicking or dragging and dropping the mouse at online channel.

6.1.3 Operation

NOTE

This function is only available for the dome product with PTZ, support direction controlling, presetting location operation and cruising operation.

Figure 6-2 PTZ adjustment



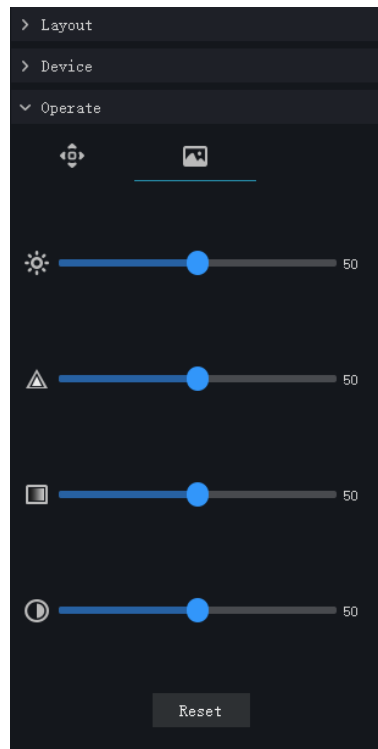
PTZ Operation: adjust the PTZ full-scale movement, lens zoom, edit and control, zoom in, zoom out, IRIS increase and decrease, near focus, far focus, focus, orientation, and wiper, turn on the light.

Cruise: cycle the preset positions according the order.

Preset position: set the preset position name and set the current position as the preset position to facilitate the cruise operation.

Image operation: adjust image brightness, sharpness, saturation and contrast. The default values are all 50. Focus is changed by dragging the right side of the slider or clicking the left and right axes to change the value, the range is 0-100.

Figure 6-3 Image adjustment



6.2 Playback

At the playback function interface, the video from the front-end device can be played back and backed up, support multiple channels synchronous playback, support playback control operations.

On the main menu page, click



to enter the detailed page, as shown in Figure 6-4

Figure 6-4 Playback interface

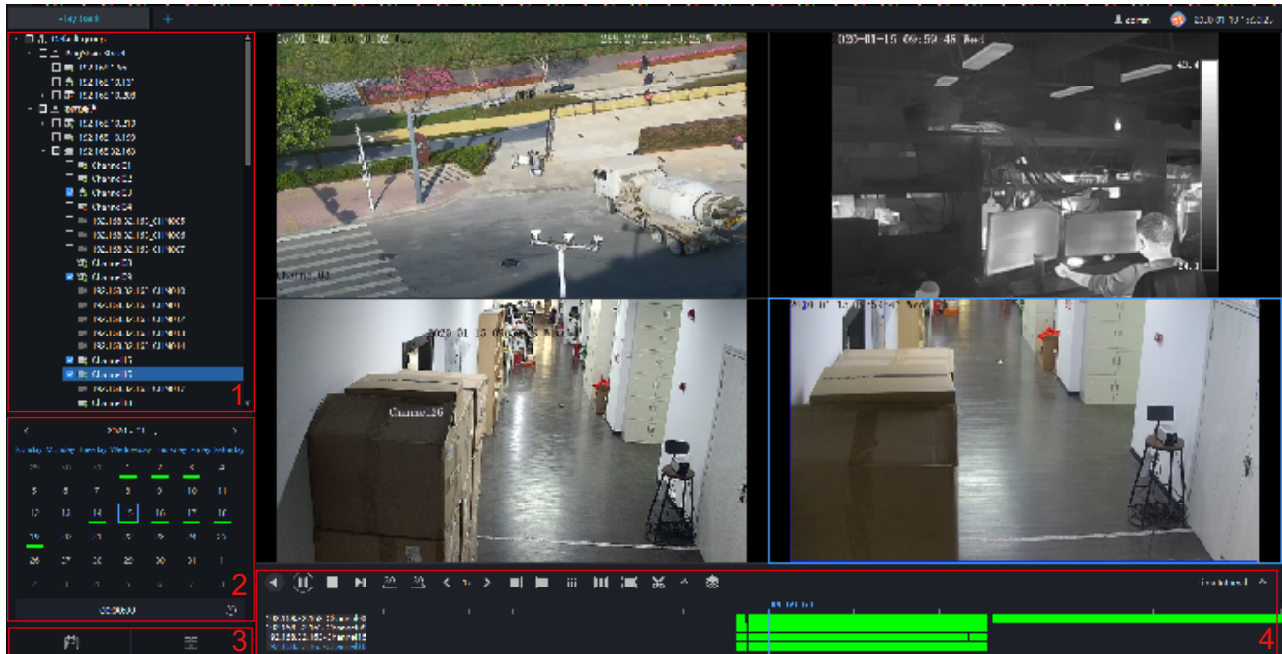


Table 6-1 Playback

No.	Function	Description
1	Device	Show devices on the platform as organizational structure
2	Calendar	Display date, there is a green bar below the date to indicate that there is a recording on this date.  Positioning can manually enter the time and position.
3	Operation	Close or open the calendar/ Video grid

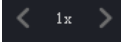
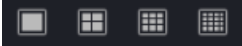
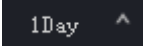
No.	Function	Description
4	Toolbar operation	Video operation: operation, timeline, display. For example , Rewind , Pause/Play , Stop , Next frame , Backward 30s/ Forward 30s , Several fold speed slow release, fast release , Layout display , Full screen , Download back up device video, specific steps please refer to chapter 9.3 , Bath backup, choose multiple channels to backup the video. , Select progress bar format

Figure 6-5 Batch backup

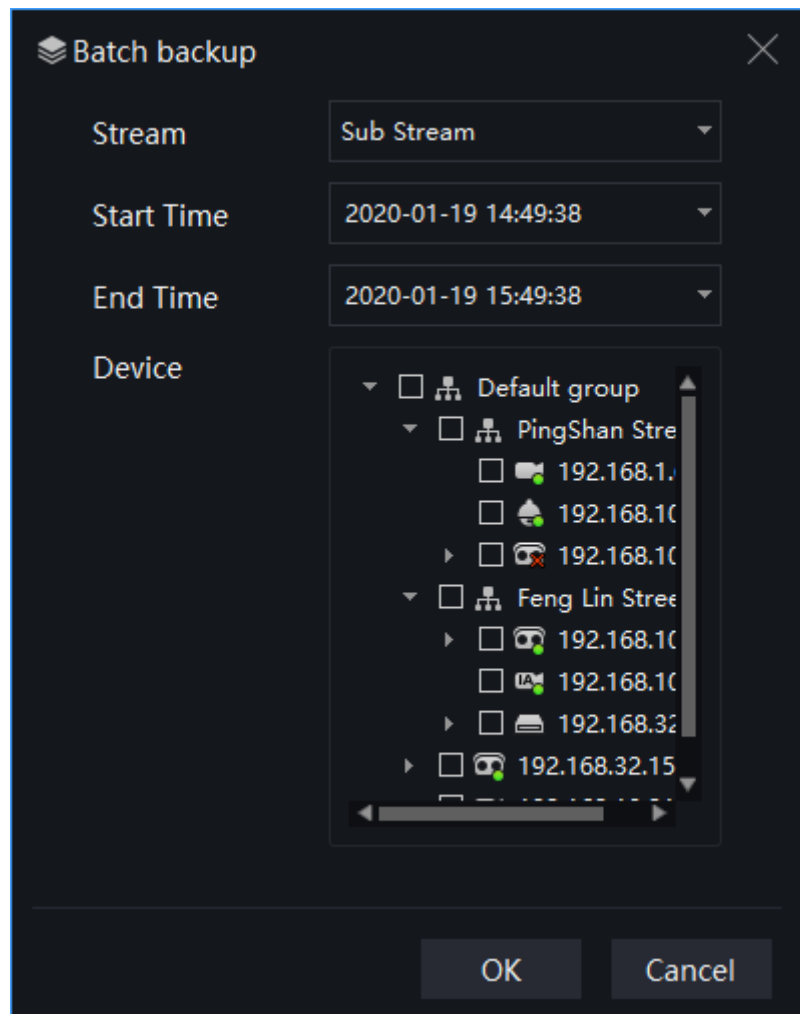


Figure 6-6 Video grid



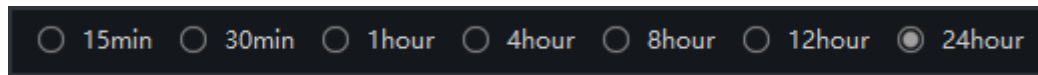
6.2.1 Playback the Device Video

□ Procedure:

Step 1 Select display layout mode, support multiple devices synchronous playback

Step 2 Select the device in the device list that needs to be played back, video at the current time will be automatically queried and played back

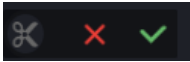
Step 3 Select the way as shown in the picture on the timeline ,can play back the video by selecting different progress bar formats.



Step 4 Select the operation tool in the toolbar to watch the video playback according to one's needs.

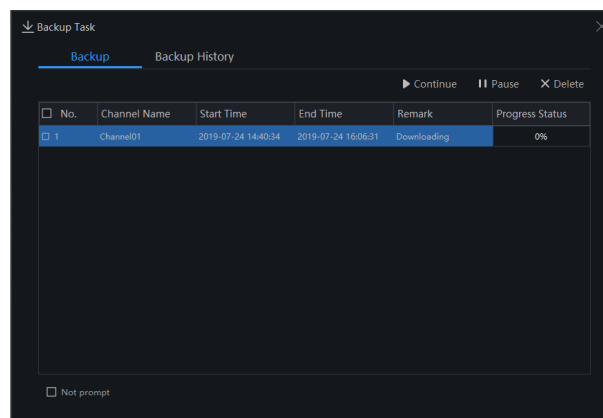
6.2.2 Back up the Device Video

Procedure:

Step 1 Click , the video starts to back up, the icon  shows, drag the time scale can copy the video quickly, download the video with MP4 format.

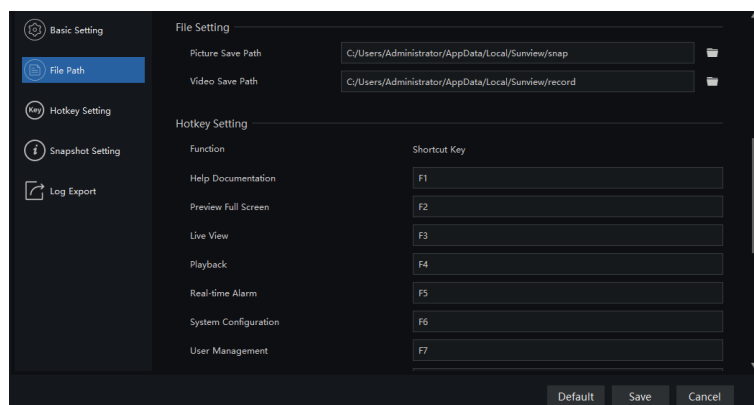
Step 2 Click the checkmark to complete the selection and copy of the video, and jump to the download interface as shown in Figure 6-7

Figure 6-7 Download interface



Step 3 Click "Downloaded" on the top right corner of interface to view the start and end time of the downloaded video, and the store path.

Figure 6-8 File path



6.3 Real-Time Alarm

At the interface of real-time alarm, alarm information from the front-end equipment in real-time could be received, and enable to handle single or batch of alarms.

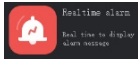
On the main menu page, please click  to enter the detailed interface, as shown in Figure 6-9

Figure 6-9 Real-Time alarm interface

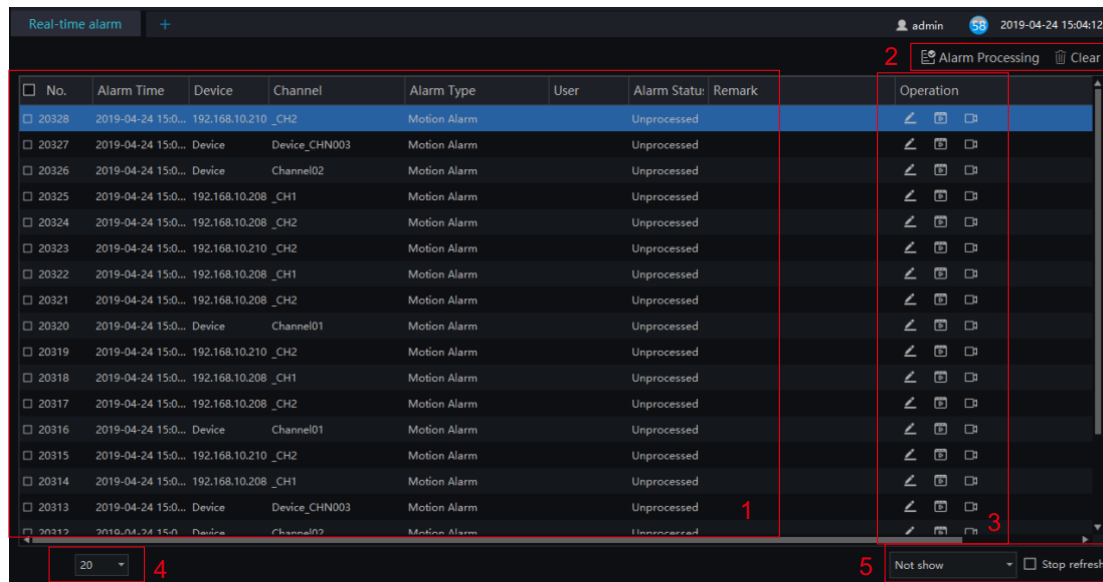


Table 6-1 Real-time alarm

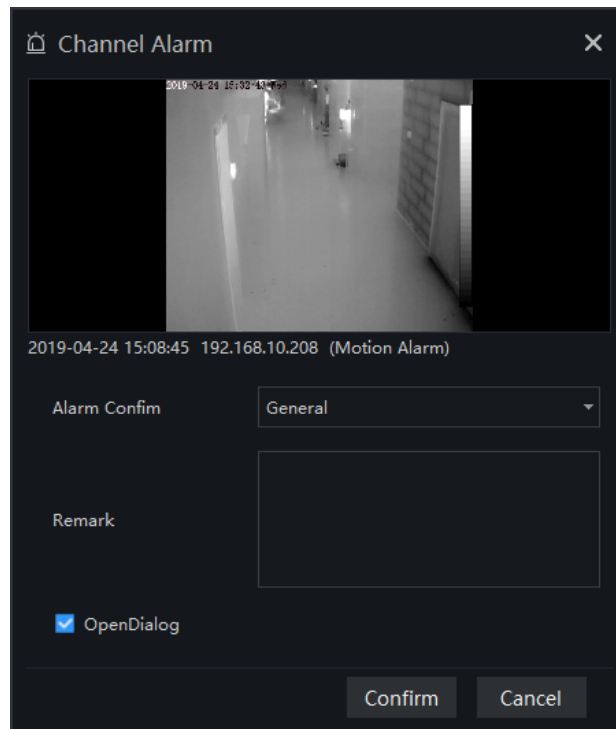
No.	Function	Description
1	Alarm display area	Display alarm related information.
2	Alarm processing.	Process the specified alarm information, click 'clear', the current alarm will be cleared.
3	Alarm operation	Alarm processing, video of alarm playback, live video.
4	Interface display.	Quantity of the current page's alarms
5	Toolbar alarm shortcut settings.	Quickly display the real alarm message and content settings.

Procedure:

Step 1 Click the real-time icon at the main menu page to enter the detailed page, and you can access quickly by clicking  icon in the upper right corner of the screen.

Step 2 Tick the alarm information, click "Alarm Processing" in the upper right corner, and a pop-up window will show, which can be set according to the actual situation, when the processing is completed, the status will become processed.

Figure 6-10 Alarm process



Step 3 Click  to play back the alarm occurrence video for 30S.

Step 4 Click  to view live video of the alarm device.

6.4 Alarm Search

At the interface of Alarm Research, the follow-up date of historical alarm, alarm type, processing status, name of device could be retrieved, and enable to process the search results single or batch individually.

On the main menu page, click  to enter the detailed interface, as shown in Figure 6-11

Figure 6-11 Alarm search interface

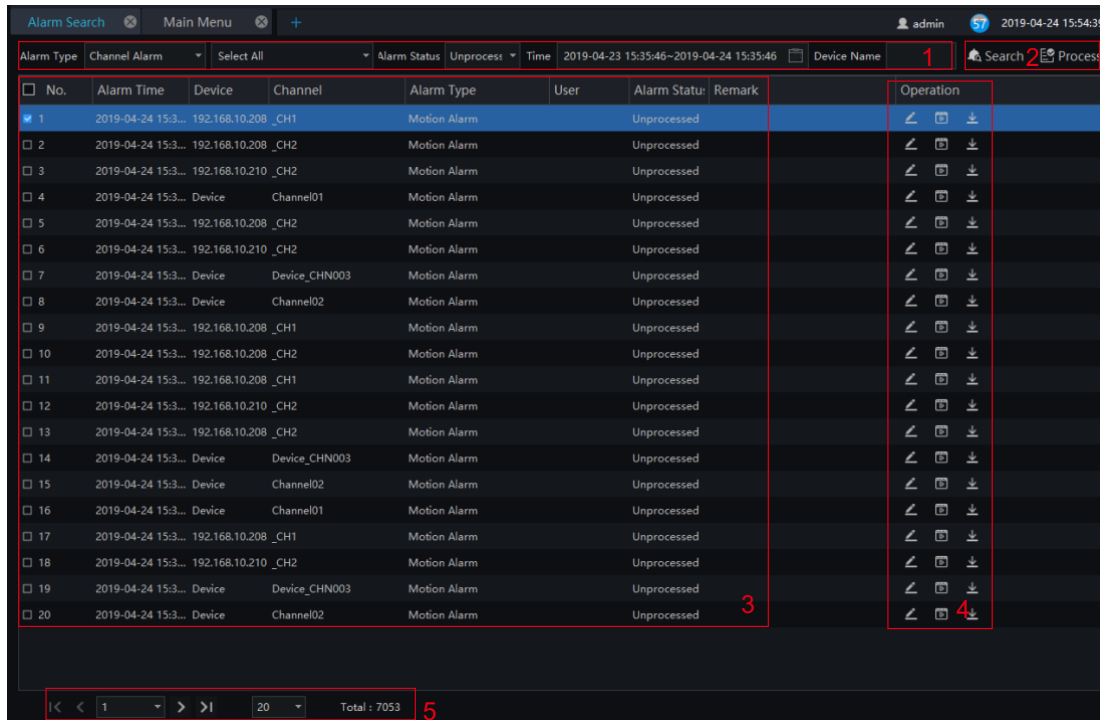
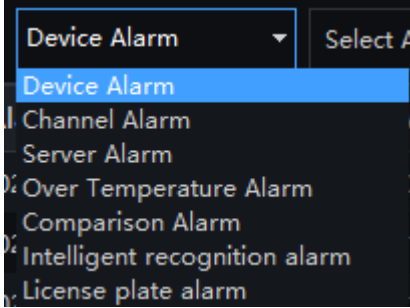


Table 6-1 Alarm search

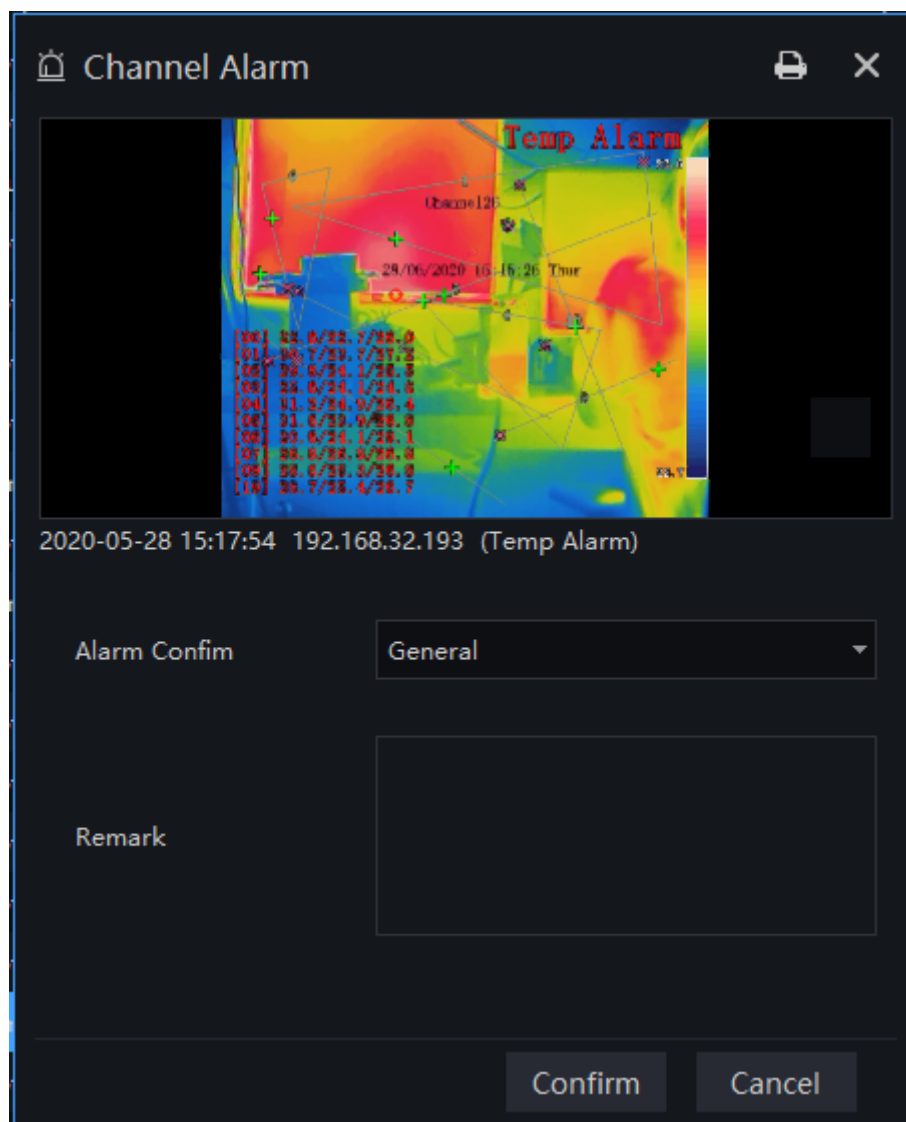
No.	Function	Description
1	Search condition	User set the search condition, choose alarm type, alarm status, set time of searching 
2	Search/Process	Click the icon to search or process the alarm
3	Search results	Results of searching

No.	Function	Description
4	Operation	Edit, playback, process, backup task
5	Interface display	Show the current page of the alarm, and the page displays the number of alarms, switch to next page to show alarm information

 NOTE

The processing status of the temperature alarm will affect the alarm statistics. Only the manual processing of related alarm information over-temperature statistics can be accurate.

Figure 6-12 Processing alarm



At processing alarm interface, user can edit the alarm information, and print the alarm.

6.5 Layout Management

At the interface of layout management, adding the binding of the channel to the window and setting the polling interval are available. The layout will display on the interface of "Preview". It helps more convenient for video monitoring.

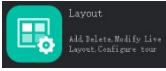
On the main menu page, click  to enter the detailed interface, click  to add layout as shown in Figure 6-1.

Figure 6-13 Layout management interface

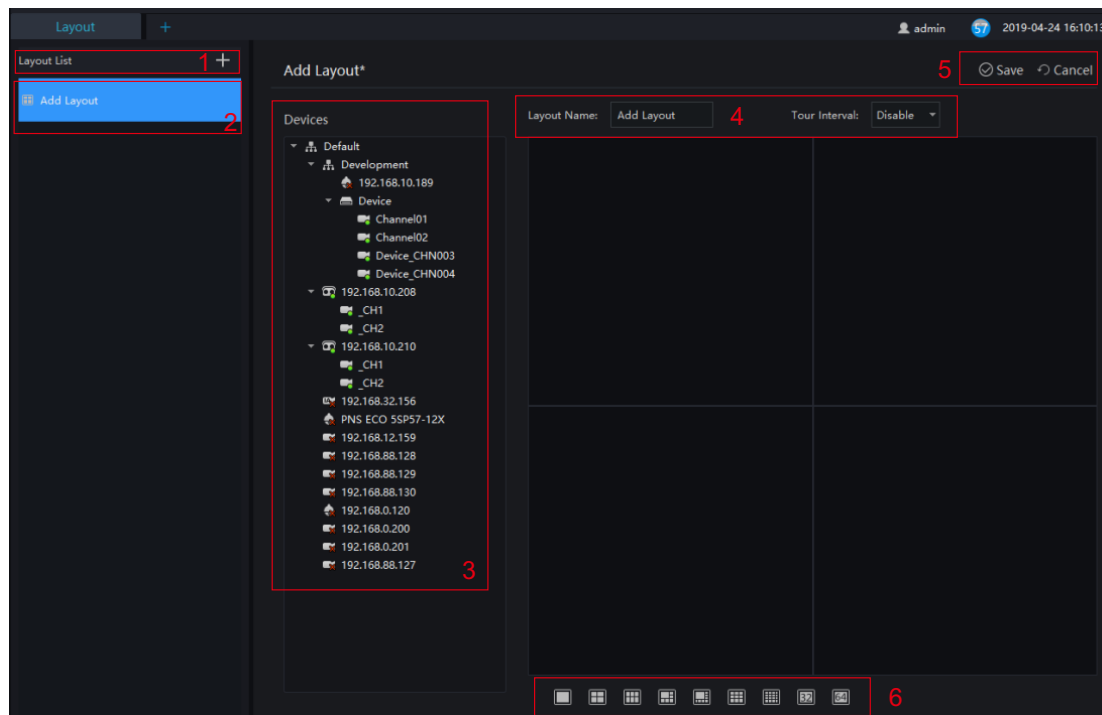


Table 6-1 Layout management

No.	Function	Description
1	Create new layout	Click  , or the huge "+" icon to create new overall arrangement
2	Previous layout	Click the previous layout, user can edit or delete the layout
3	Device information display.	Click and drag the device to place it in the display area to start the arrangement
4	Arrangement	Edit layout name and setting tour interval.
5	Save setting	Save, cancel new arrangement settings
6	Display mode	Choose video display mode.

Procedure:

Step 1 Click  at the layout list to create a new layout.

Step 2 Input the name of the layout and select the window layout.

Step 3 Set tour interval.

Step 4 Choose and hold the mouse to set the channel to display at layout window, you could bind multiple channels at the same window and enable tour interval, so that users view several cameras.

Step 5 Click "Save" to save settings.

6.6 E-Map

At the interface of electronic map, you can set map that the system supports JPG, PNG, BMP. It supports multi-level sub maps, which makes it easy for monitoring sites on the map.

At new function page, click  to enter detailed interface, as shown in Figure 6-14.

NOTE

E-Map editing function only admin user is authorized, other users do not have the authority for it.

Figure 6-14 E-Map interface

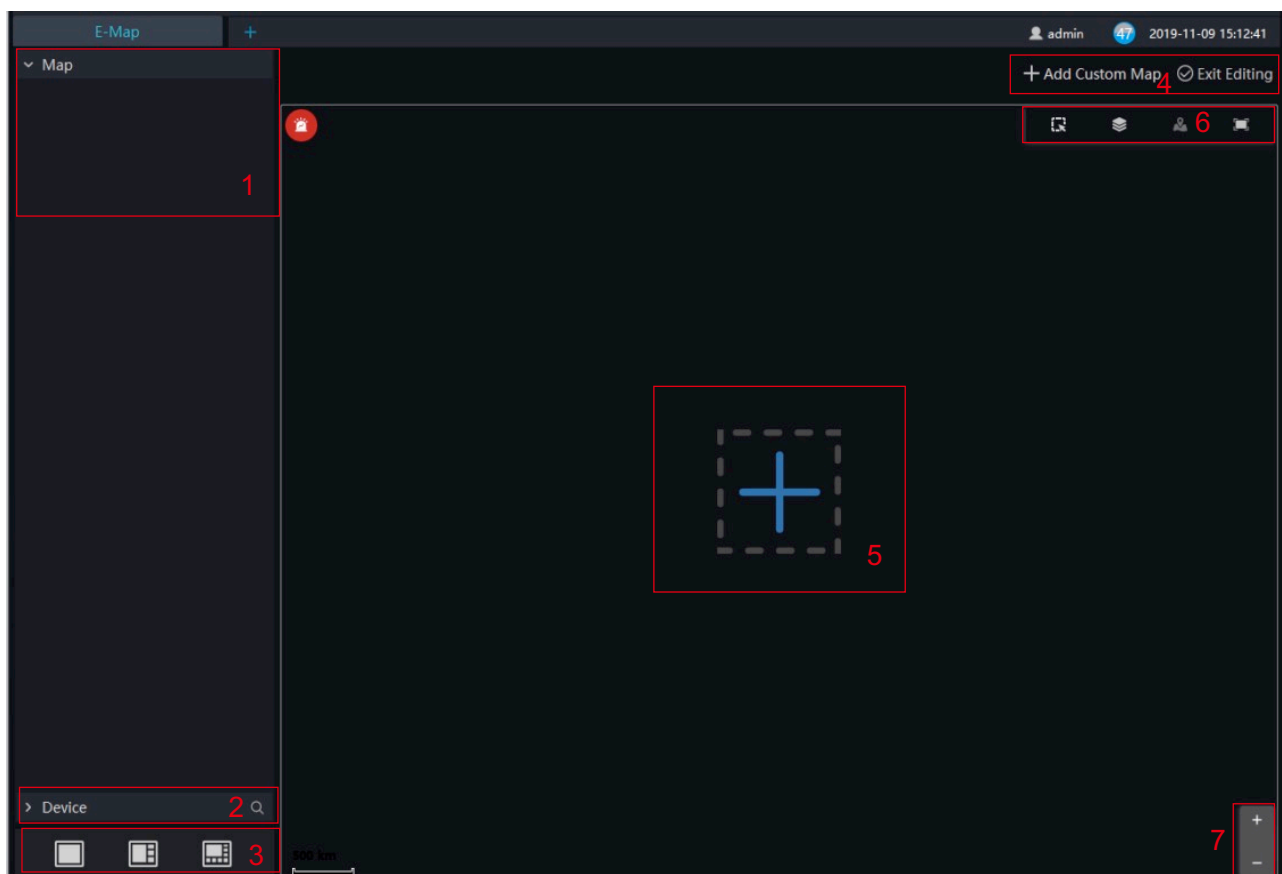


Table 6-1 E-map

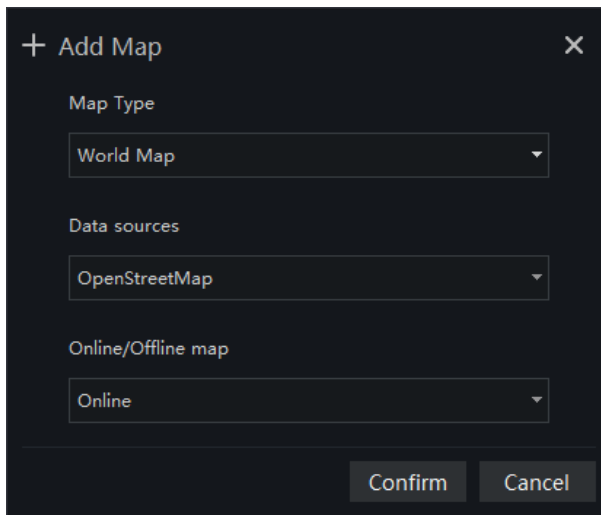
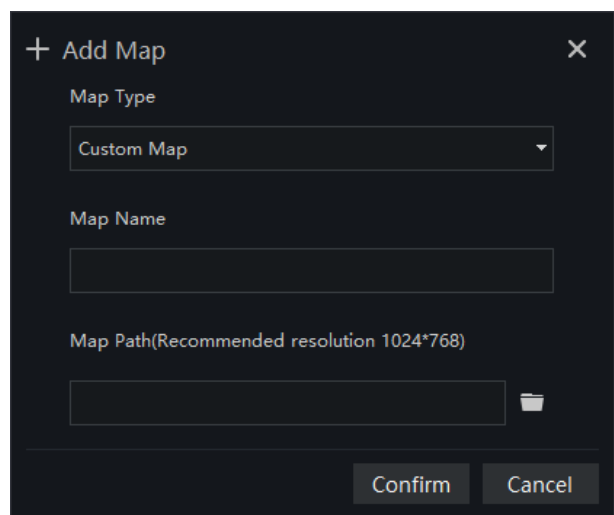
No.	Function	Description
1	Map Display List	Setting map of devices' layout
2	Device	Details of map

No.	Function	Description
3	Video Display	Map and layout of video display
4	Add map	Add custom map, edit the maps
5	Zoom in/ zoom out	Zoom the map to set monitoring points
6	Operation of Map	User can operate the devices of map.
7	Zoom in/zoom out	

6.6.1 Add Electronic Map

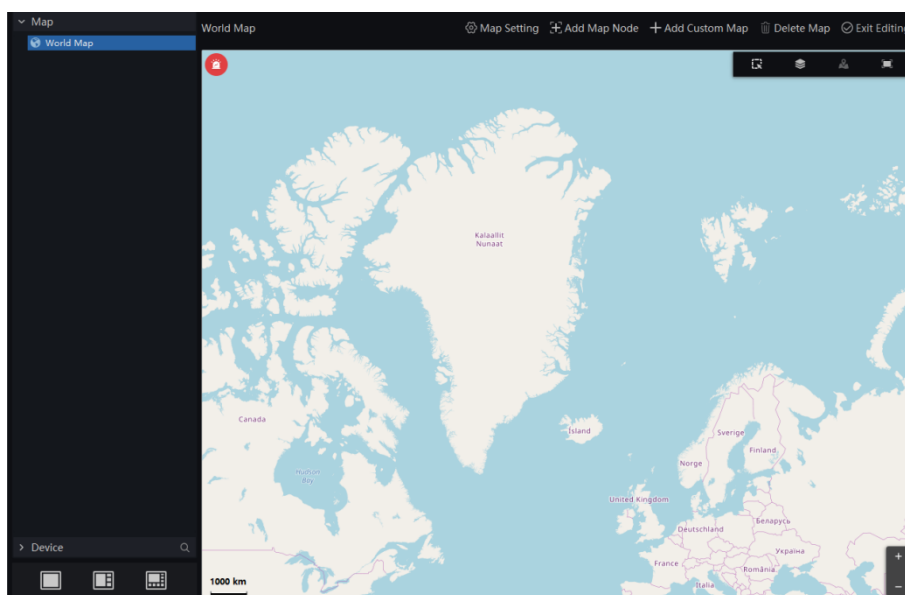
Procedure:

Step 1 Click  , the interface will be shown as below.

Step 2 Input the map name and choose map path, we provide the open street map and custom map

Figure 6-15 World map



Step 3 Click “Confirm” to save the map.



NOTE

We can create the sub map below the world map. Roll and drag the world map, choose the detail area to create sub map.

Click **Add Map Node** to create map node, **Parent node** **World Map** **Map Name** **island** **Cancel** **Ok** set the node, click OK to save the settings..

Drag cameras to map as actual deployment. The current live video can line to the camera of map.

6.6.2 Edit Map

Step 1 Click **Edit** ton enter the edit status, **Map Setting** **Add Map Node** **Add Custom Map** **Delete Map** **Exit Editing**

Figure 6-16 Map setting

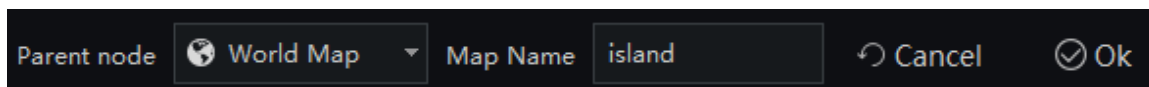


Figure 6-17 Add map node

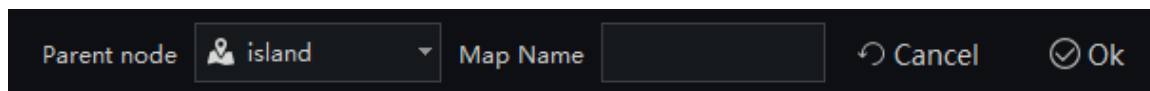
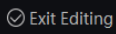


Figure 6-18 Custom Map

Figure 6-19 Delete map

Step 2 Click  to save the edit.

6.6.3 Deploy Monitoring Site

Procedure:

Step 1 If cannot be edited, please click editing icon to switch to editable.

Step 2 Select the map for monitoring deployment

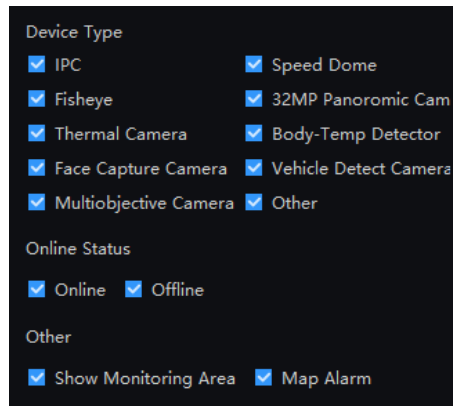
Step 3 Drag camera icon on the map with mouse, the monitoring direction and the size of area can also be controlled with mouse.

6.6.4 Quick Navigation

Step 1 Click  at  tar.

Step 2 Drag mouse to select the area, and the resulte shows on pop-up window, as shown in figure.

Step 3 Click  to filter the devices.

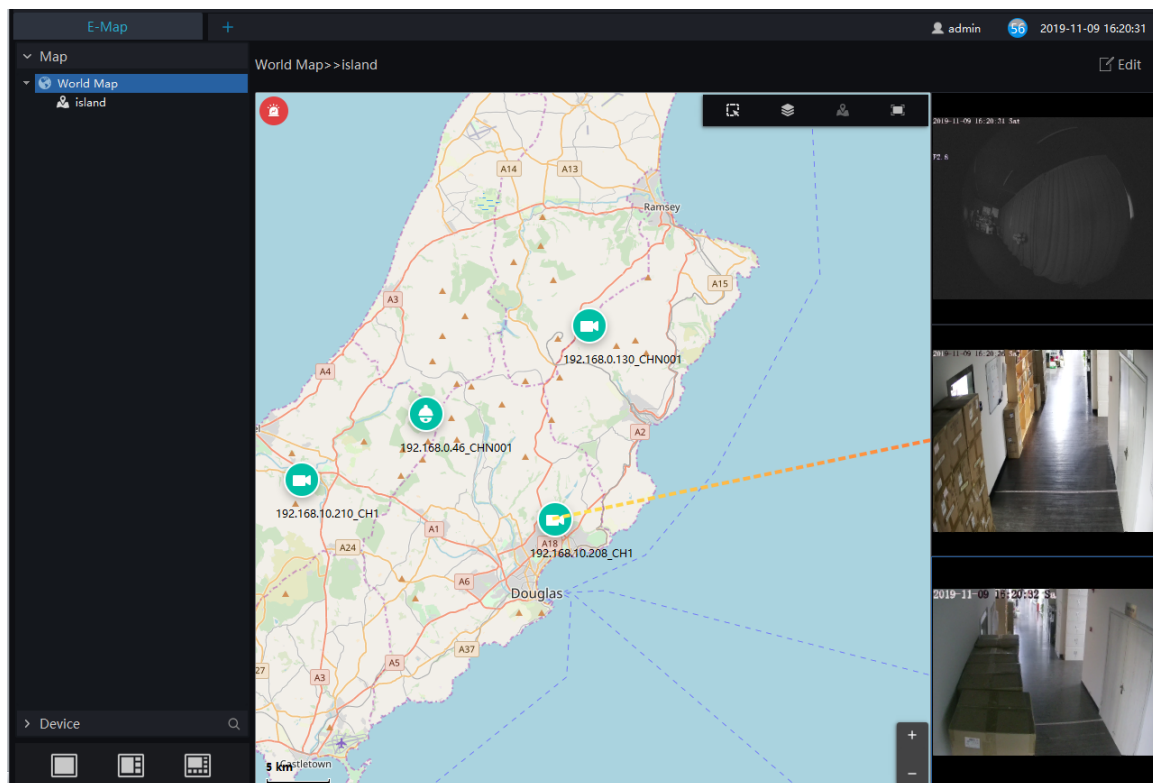


Step 4 If the alarm is generated, click  to position the camera, and double click to view the live video.

Step 5 Click  to view the alarm information.

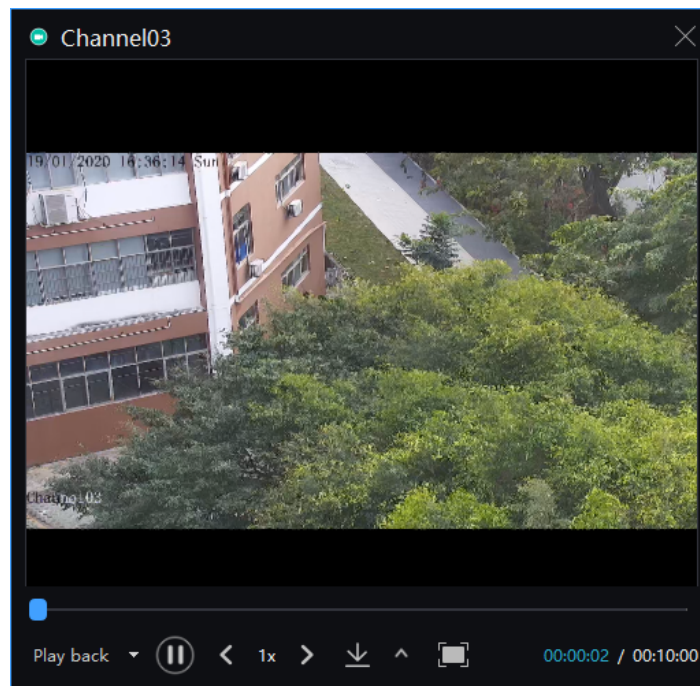
Step 6 Click  to set the live video split screen

Figure 6-20 Live video of map



Step 7 Click the shining camera to view the live video or playback, as shown in Figure 6-21.

Figure 6-21 Live video of alarming



6.7 Report Statistics

At the interface of report statistics, the user can view the alarm statistics of group, devices, the online rate of devices is also reported.

On the main menu page, click  to enter the detailed page, as shown in Figure 6-22.

Figure 6-22 Report statistics interface

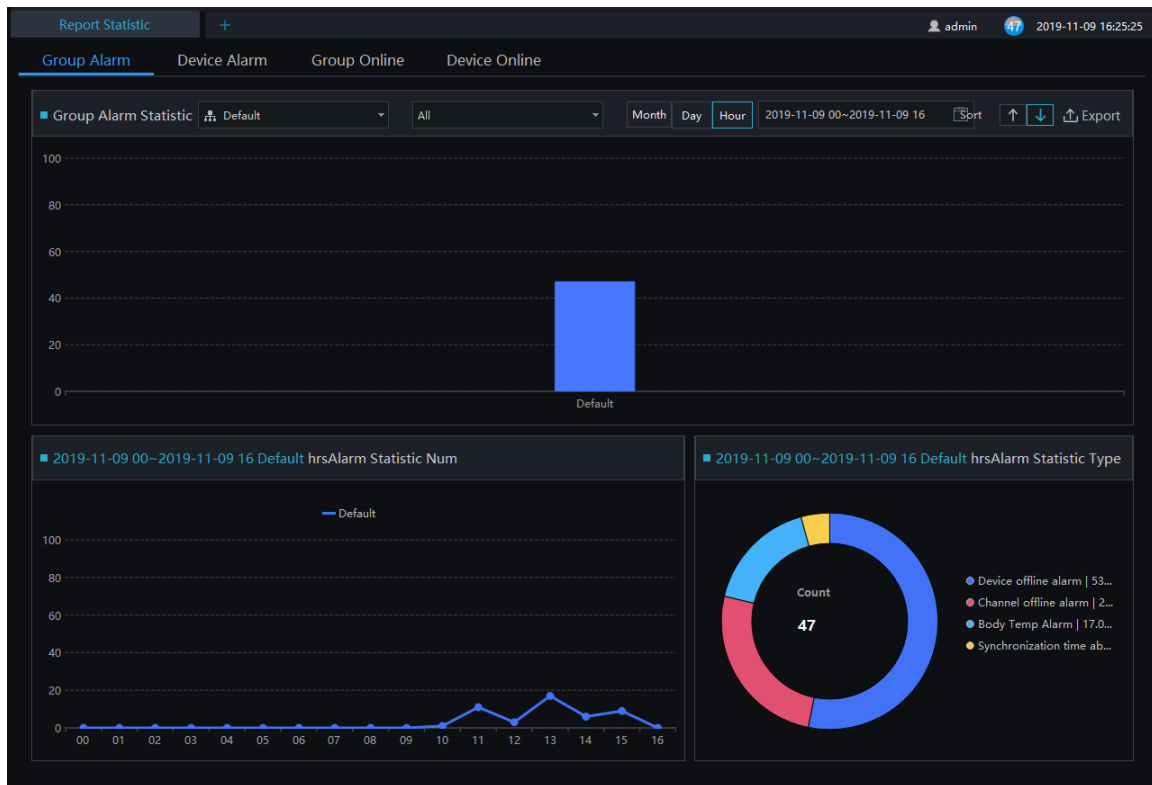
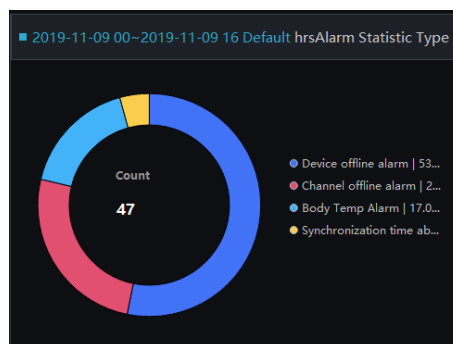


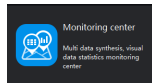
Figure 6-2 Alarm type statistics



There are three forms of visual display of data statistics, histograms, line charts and torus charts.

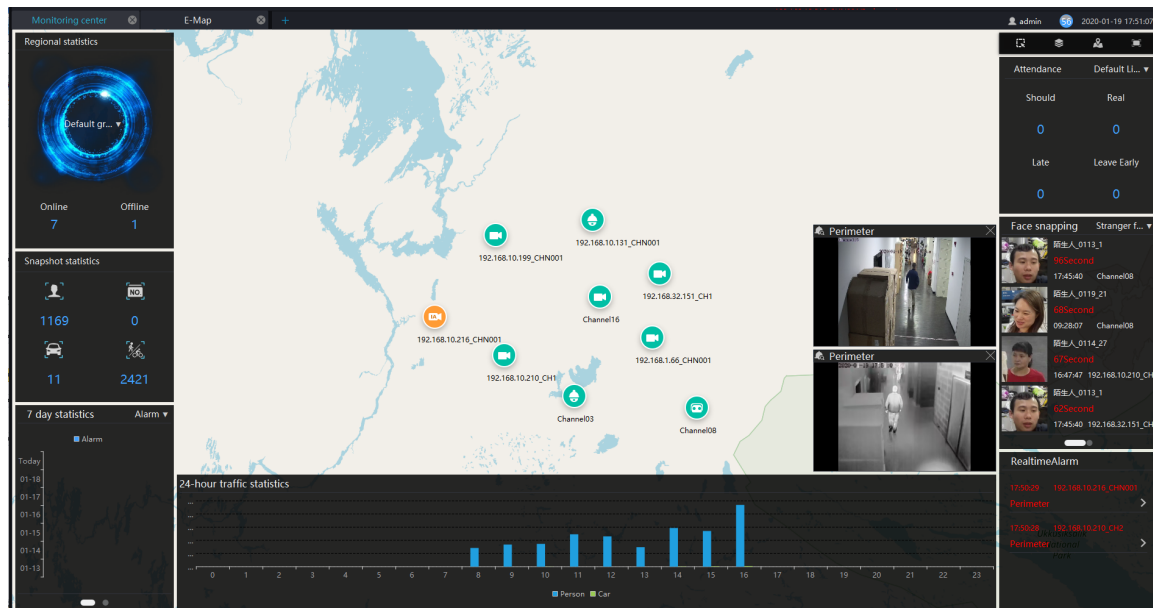
6.8 Monitoring Center

In the monitoring center, a visual comprehensive management platform. It can directly call the electronic map to view the online status of regional statistical equipment, such as regional statistics, snapshot statistics, 7 day statistics, 24-hour traffic statistics, attendance, face snapping, real time alarm, E-map, and alarming live video.



On the main menu page, click to enter the detailed page, as shown in Figure 6-23.

Figure 6-23 Monitoring Center



Regional statistics: Count the number of online and offline devices in different groups.

Snapshot statistics: devices under the organization, statistics faces, number of license plates, vehicles, number of person and vehicles snapshot.

7 days statistics: Pedestrian and vehicle traffic and alarm conditions within the 7 days. This statistic is updated regularly every day. It cannot be updated in real time. Automatically switch between pedestrian and alarm's statistics by default.

24-hour traffic statistics: statistics about the number of people and cars in a 24-hour period.

Attendance: statistics of attendance at the attendance points under the structure of the group.

Face snapping: Count the frequency of strangers and over-temperature capture. By default, two kinds of statistical data are automatically switched and the data is updated in real time.

Real-time alarm: Display real-time alarm information. If the device is connected to the map, you can click to view the real-time video.

Real-time video: Switch the real-time alarm video of the electronic map device in real time.

Click the camera in the E-map can view the live video or playback.

6.9 Alarm Linkage

User can set the alarm linkage action at alarm linkage interface, such as send E-mail, PTZ, IO output, as shown in Figure 6-24.

Figure 6-24 Alarm Linkage

Step 1 Click  to add the new event linkage strategy.

Step 2 Enable the strategy, set the name of strategy.

Step 3 Choose trigger type(alarm event or timing), as shown in Figure 6-25.

Step 4 Timing, user need to set trigger time or tick repeat.

Step 5 Alarm event, user need to choose event and alarm devices, as shown in Figure 6-26.

Step 6 Click “Next” to set linkage event, choose one or more to alarm, as shown in Figure 6-27.

Step 7 Click “Next” to set defense time.

Step 8 Click “Apply” to save the setting.

Figure 6-25 Trigger condition

1.Trigger Conditiior 2.Linkage Event 3.Defence Time

Trigger Type: Alarm event

Trigger Event: Motion Alarm

Alarm Device:

- ☐ Default group
 - ☐ 192.168.10.224
 - ☐ 192.168.32.126
 - ☐ 192.168.32.19
 - ☐ 192.168.32.52
 - ☐ 192.168.32.106
 - ☐ 192.168.32.178
 - ☐ 192.168.32.178_CH1
 - ☐ 192.168.32.62
 - ☐ 192.168.32.121
 - ☐ 192.168.32.107
 - ☐ GANZ_ZN8_IPC
 - ☐ 192.168.32.131
 - ☐ 192.168.32.170
 - ☐ 192.168.32.171
 - ☐ 8888

Available:109 Selected Device:0

Figure 6-26 Linkage event

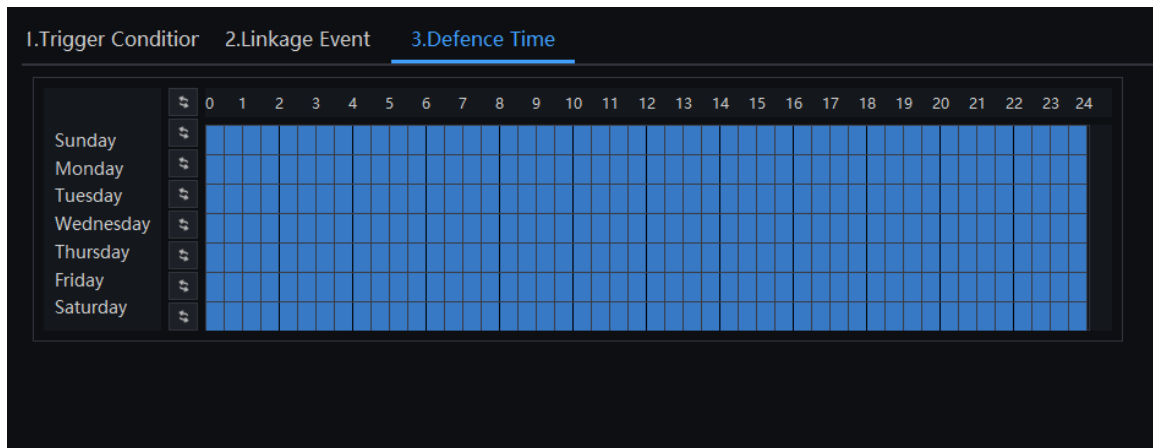
1.Trigger Conditiior **2.Linkage Event** 3.Defence Time

☐ Send mail

☐ PTZ Please select channel +

☒ IO Output 192.168.10.224 select All Output 3 Sec +

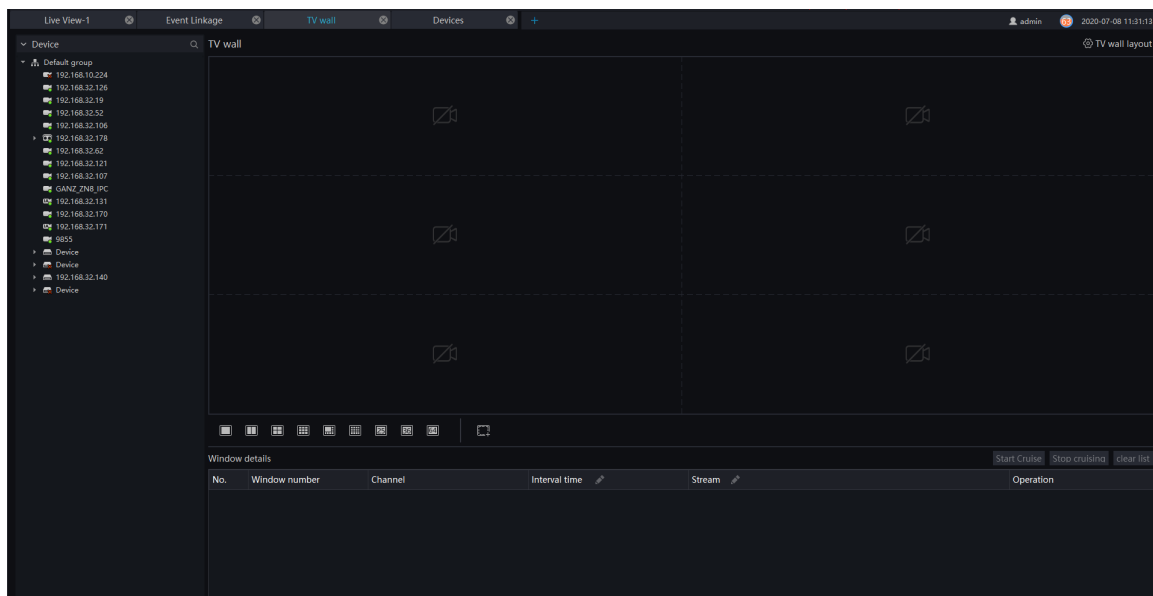
Figure 6-27 Defense time



6.10 TV Wall

The TV wall can be connected to the decoder by using a decoder, and the TV wall can be connected by VGA or HDMI. The selected channel will directly have a decoder to directly push the stream to play live video, as shown in Figure 6-28

Figure 6-28 TV wall

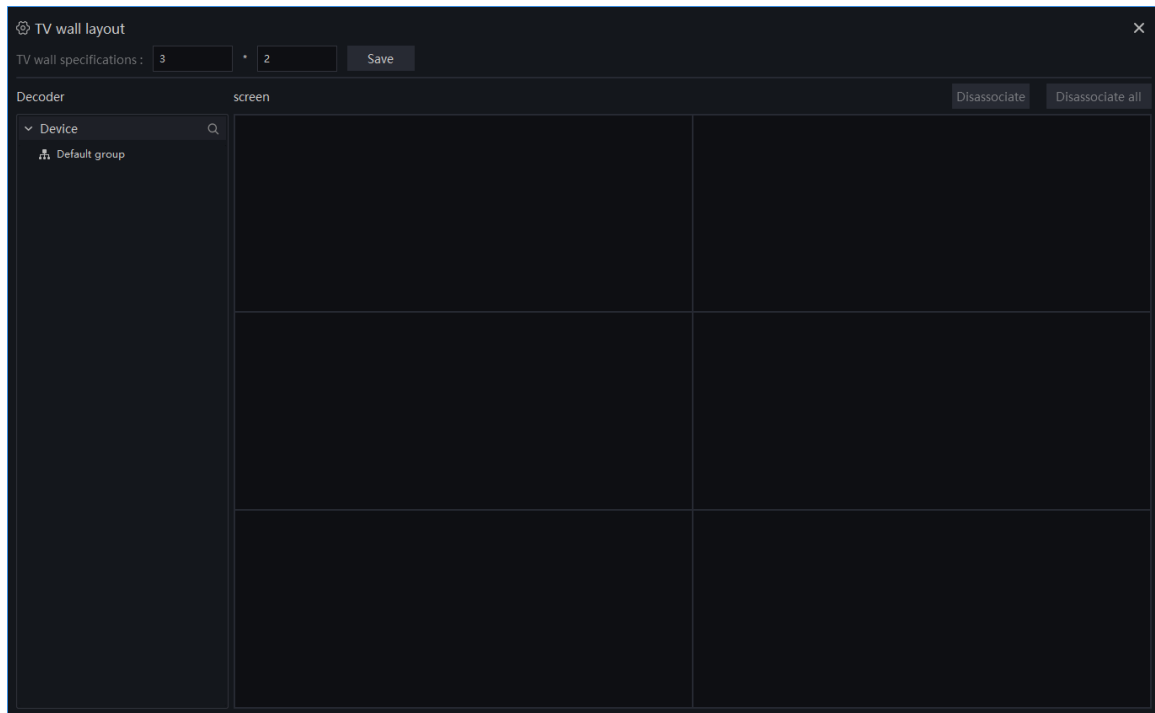


Step 1 Click  on the upper right corner of the TV wall interface to set the TV wall layout. The default is 2*2.

Step 2 Drag the online channel and the prompt "Please bind the decoder output port first" appears.

Step 3 Set up the interface of the interface device, and you can watch the live video directly on the TV wall after completion.

Figure 6-29 TV wall layout



The TV wall supports auto sequence play video.

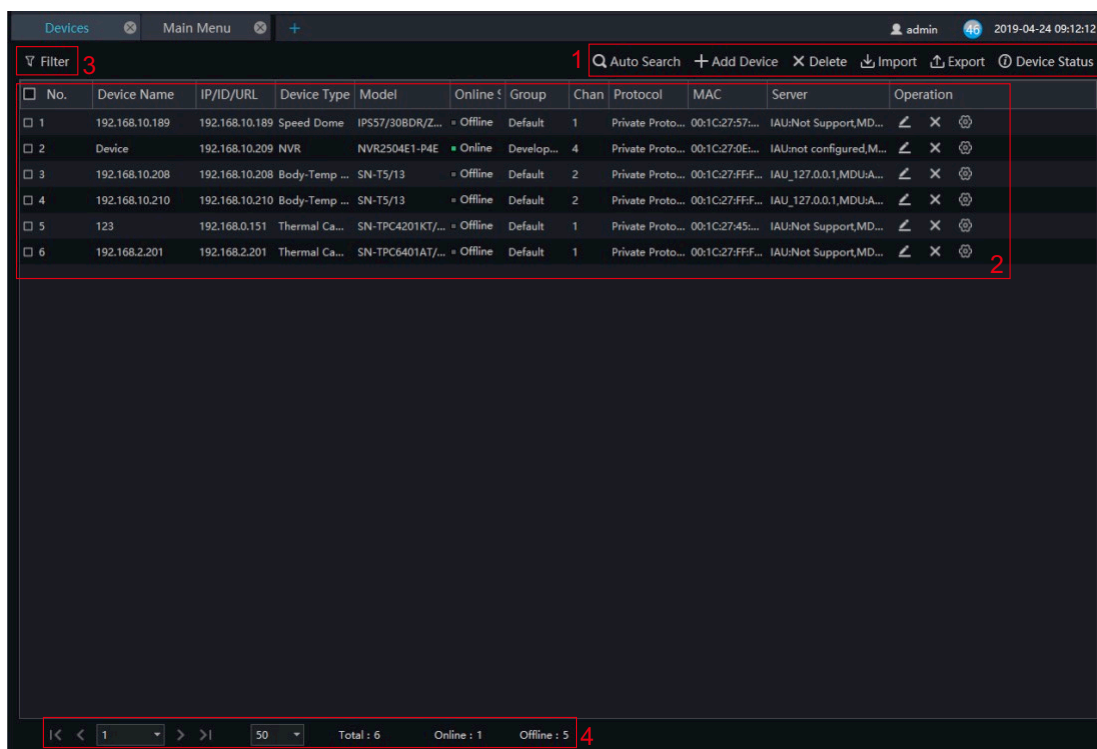
7 Configuration Maintenance

7.1 Devices

At the device management page, you can add devices (such as IPC, DVR, NVR) through automatically searching, manually adding or batch importing. The platform supports the following device types: IPC, DVR, NVR, thermal imaging camera, face capture camera, human thermometer devices and so on.

On the Main menu page, click , enter the detailed page, as shown in Figure 7-1

Figure 7-1 Device Management interface



No.	Device Name	IP/ID/URL	Device Type	Model	Online Status	Group	Chan	Protocol	MAC	Server	Operation
1	192.168.10.189	192.168.10.189	Speed Dome	IPS57/308DR/Z...	Offline	Default	1	Private Proto...	00:1C:27:57:...	IAU:Not Support,MD...	⚙️ ✖️
2	Device	192.168.10.209	NVR	NVR2504E1-P4E	Online	Develop...	4	Private Proto...	00:1C:27:0E:...	IAU:not configured,M...	⚙️ ✖️
3	192.168.10.208	192.168.10.208	Body-Temp ...	SN-T5/13	Offline	Default	2	Private Proto...	00:1C:27:FF:F...	IAU_127.0.0.1,MDU:A...	⚙️ ✖️
4	192.168.10.210	192.168.10.210	Body-Temp ...	SN-T5/13	Offline	Default	2	Private Proto...	00:1C:27:FF:F...	IAU_127.0.0.1,MDU:A...	⚙️ ✖️
5	123	192.168.0.151	Thermal Ca...	SN-TPC4201KT/...	Offline	Default	1	Private Proto...	00:1C:27:45:...	IAU:Not Support,MD...	⚙️ ✖️
6	192.168.2.201	192.168.2.201	Thermal Ca...	SN-TPC6401AT/...	Offline	Default	1	Private Proto...	00:1C:27:FF:F...	IAU:Not Support,MD...	⚙️ ✖️

Table 7-1 Device Management

No.	Function	Description
1	Operation	Search, add, delete, export, import devices, Status of All devices.
2	Device information display	Details of device, operating device: edit, delete device, quickly enter to device configuration.
3	Filter	Filter the device by setting device type, online status and device name.
4	Page	Device display page, next page, quantity.

7.1.1 Auto Search

The device and the server are on the same network segment.

Procedure:

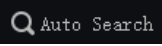
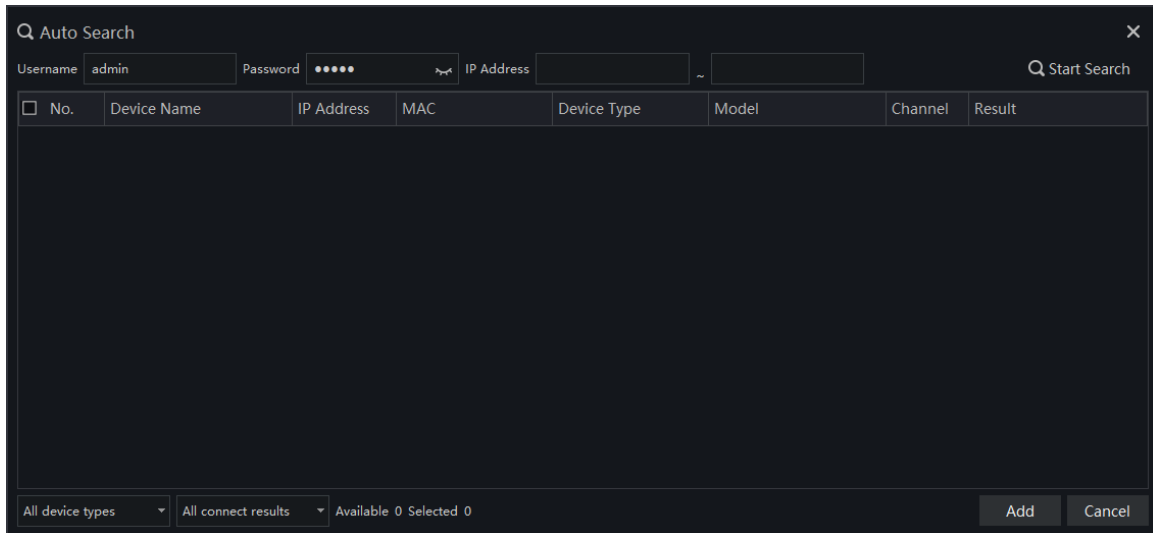
Step 1 On device management page click  enter auto search page ,as shown in Figure 7-2.

Figure 7-2 Auto search page



Step 2 Input the user name and password of the device and set the IP address range to filter.

Step 3 Click “Start Search”, the device on the same network as the client will be automatically searched and the search results will be displayed on the current page.

Step 4 Tick the number of the device and click “Add”. After finished, the device is displayed in the device list.

TIP

All devices can be added to list, but some device is failed to connect, it may be incorrect password or some error settings, modify the settings of device manually.

7.1.2 Manual Add

Procedure:

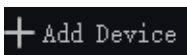
Step 1 Click  at device management page, get into manual add device page, as shown in Figure 7-3

Figure 7-3 Manually add device page



CAUTION

The intelligent analysis server does not support auto, only supports cameras with face detection;
The media distribution server supports automatic, such as multiple media distribution servers for load balancing.

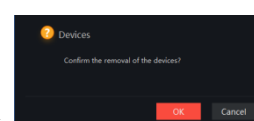
Figure 7-4 Server associated

Step 2 Input the device name, select the device type, input the IP address/user name/password, and select group

Step 3 Click “test” to check your settings, click “Save and New”

Step 4 Pop-up window show “Add successfully”, device is displayed in the device management page (device details are displaying on the page at the same time).

Step 5 Delete the cameras: tick the No of cameras, click “Delete” to show



, click “OK ” to delete the cameras.

7.1.3 Export and Import Device

Procedure:

- Step 1 Click “Export”.
- Step 2 Click “Export Template”, edit information at template page.
- Step 3 Click “Import”.
- Step 4 Select files to be imported , click “Save” , import device successfully.

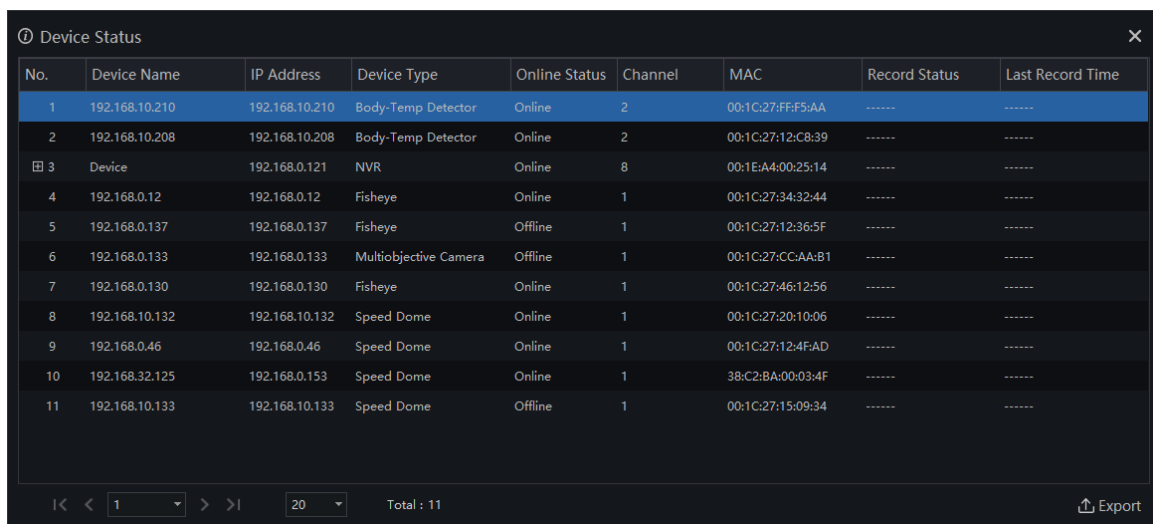
--End

7.1.4 Device Status

Procedure:

- Step 1 Click “Device Status”.
- Step 2 The pop-up window show the status of devices as shown in Figure 7-5.

Figure 7-5 Device Status



No.	Device Name	IP Address	Device Type	Online Status	Channel	MAC	Record Status	Last Record Time
1	192.168.10.210	192.168.10.210	Body-Temp Detector	Online	2	00:1C:27:FF:F5:AA	-----	-----
2	192.168.10.208	192.168.10.208	Body-Temp Detector	Online	2	00:1C:27:12:C8:39	-----	-----
3	Device	192.168.0.121	NVR	Online	8	00:1E:A4:00:25:14	-----	-----
4	192.168.0.12	192.168.0.12	Fisheye	Online	1	00:1C:27:34:32:44	-----	-----
5	192.168.0.137	192.168.0.137	Fisheye	Offline	1	00:1C:27:12:36:5F	-----	-----
6	192.168.0.133	192.168.0.133	Multiobjective Camera	Offline	1	00:1C:27:CC:AA:B1	-----	-----
7	192.168.0.130	192.168.0.130	Fisheye	Online	1	00:1C:27:46:12:56	-----	-----
8	192.168.10.132	192.168.10.132	Speed Dome	Online	1	00:1C:27:20:10:06	-----	-----
9	192.168.0.46	192.168.0.46	Speed Dome	Online	1	00:1C:27:12:4F:AD	-----	-----
10	192.168.32.125	192.168.0.153	Speed Dome	Online	1	38:C2:BA:00:03:4F	-----	-----
11	192.168.10.133	192.168.10.133	Speed Dome	Offline	1	00:1C:27:15:09:34	-----	-----

- Step 3 Click “Export”.
- Step 4 Set the save folder to save the status log.

--End

7.2 Device Configuration

At the interface of device configuration, you can view and set the parameter of the front-end device, such as bit rate parameters, motion detection parameters, OSD parameters, image parameters, thermal parameters, etc. For more devices configuration, click on "Link Web" to enter the device.

The configuration function is related to the firmware version of the device. Please refer to the actual situation.



On the main menu page, click  to enter the detailed page, as shown in Figure 7-6.

Figure 7-6 Device configuration interface

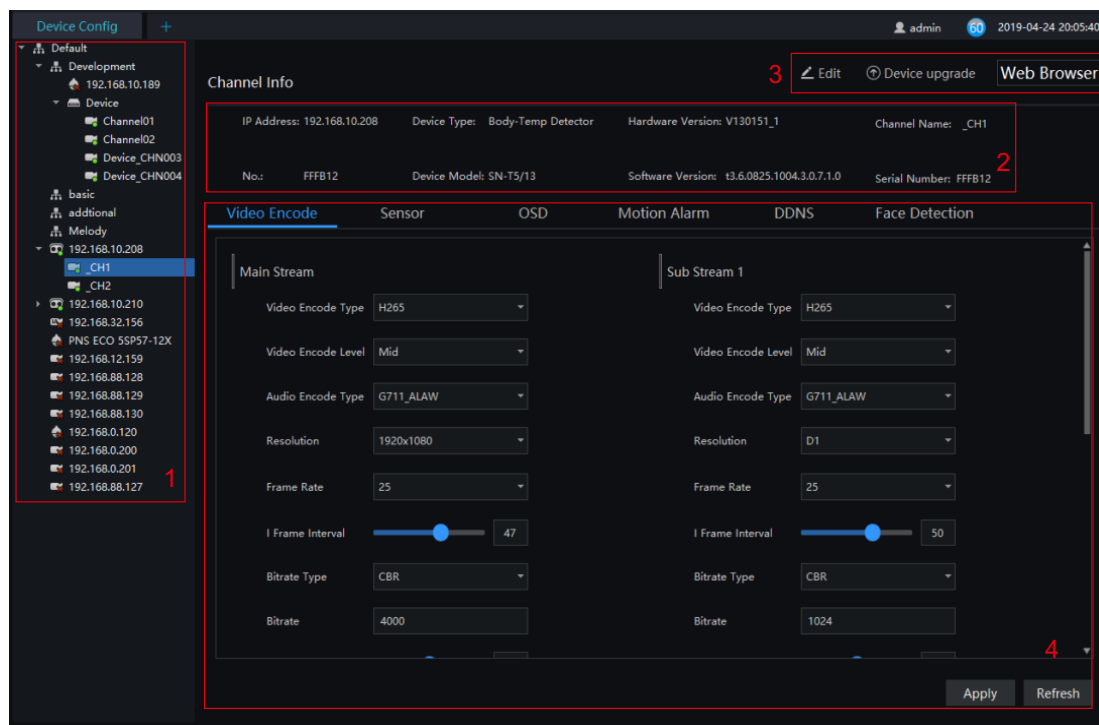


Table 7-1 Device configuration

No.	Function	Description
1	Organization structure	Show organizational structure information
2	Basic Information	Show basic information
3	Edit / Device upgrade/ Link Web	Edit : edit the device information Device upgrade: click to upgrade the device immediately. Link web: user can login to the device's web directly.
4	Device configuration information	Show and set the device configuration information, click "Apply" to save the information.

7.3 Group

For surveillance of a certain scale, an group tree can be created to run a hierarchical management on devices, the system default setting is a root group which supports 6 layers.

On the main menu page, click  to enter detailed page, as shown in Figure 7-7

Figure 7-7 Organization interface

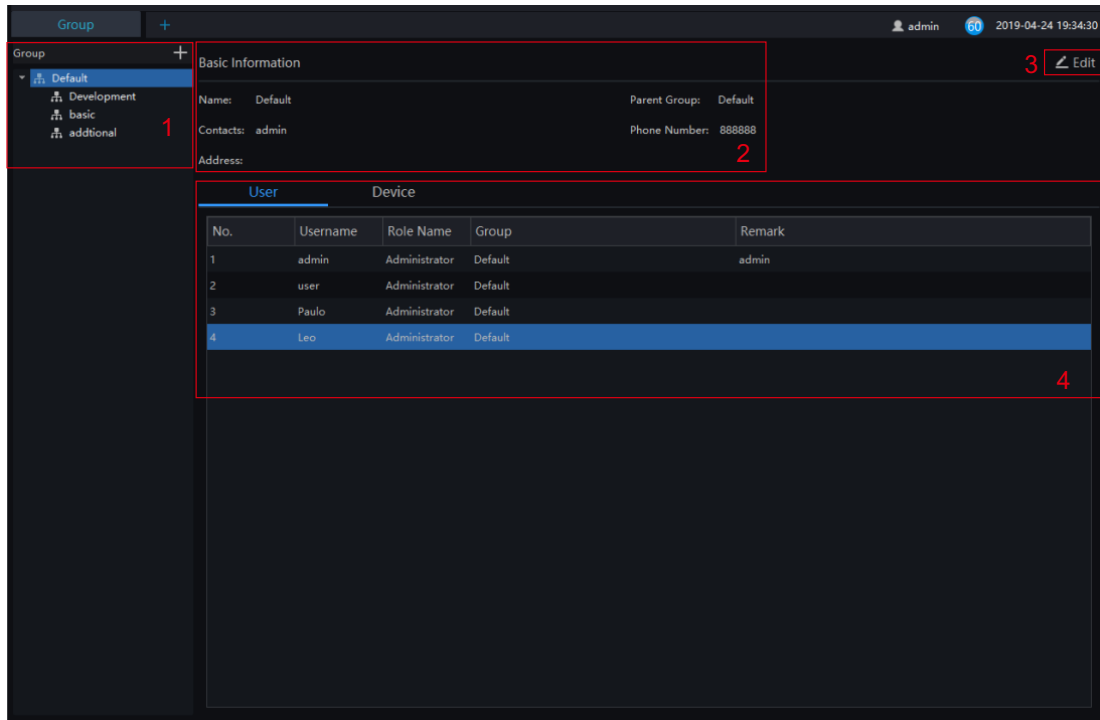


Table 7-1 Organization

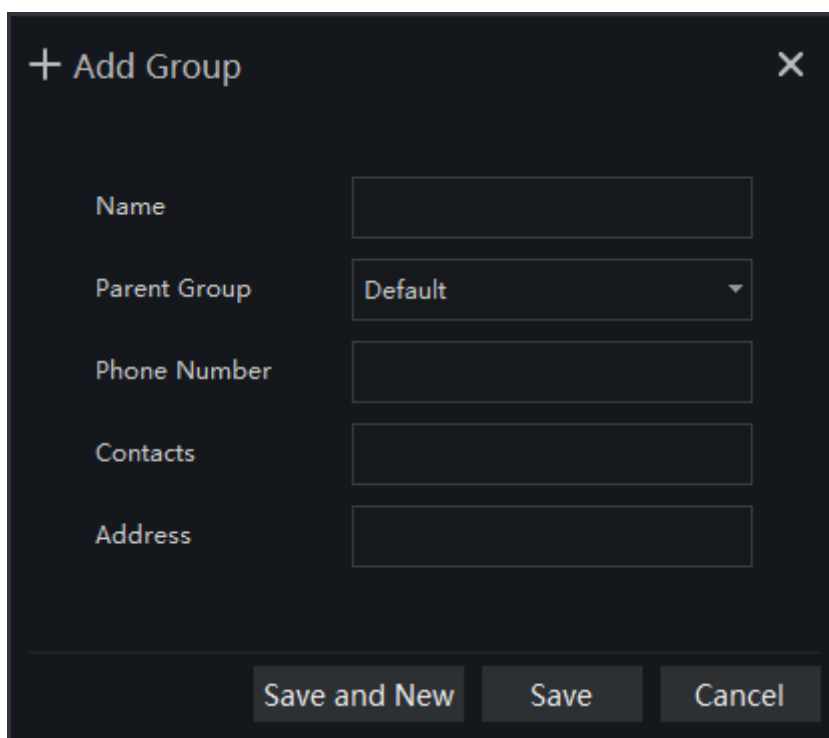
No.	Function	Description
1	Group	Display group tree, new group can be added by clicking 
2	Basic Information	Display basic information of device or group
3	Edit	Basic information can be edited by clicking “Edit”
4	Display area of user or device	Display information of user or device

7.3.1 Add Group

Procedure:

Step 1 Click the add icon to add a new group. The screen shows as Figure 7-8 .

Figure 7-8 Add group



Step 2 Input name, phone number, contacts and address. Choose the parent organization

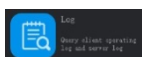
Step 3 Click “Save and New” to save and build a new one at the same time.

Step 4 Click “Save” to save and finish the adding.

7.4 Log Management

At interface of log management, users can query operation log, server log, system log.

On the main menu page, click



to enter the detailed page, as shown in Figure 7-9.

Figure 7-9 Log management interface

No.	User	Time	Operate	Remark
1	admin	2019-04-24 19:47:14	Add Group	Add Group[Melody]
2	admin	2019-04-24 19:25:53	Add Group	Add Group[additional]
3	admin	2019-04-24 19:25:28	Modify Group	Modify Group[basic]
4	admin	2019-04-24 19:23:57	Add Group	Add Group[basic]
5	admin	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.0.201]
6	admin	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.88.127]
7	admin	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.0.200]
8	admin	2019-04-24 14:28:33	AddDevice	AddDevice[PNS ECO 5SP57-12X]
9	admin	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.12.159]
10	admin	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.88.129]
11	admin	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.88.128]
12	admin	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.88.130]
13	admin	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.0.120]
14	admin	2019-04-24 14:28:32	AddDevice	AddDevice[192.168.32.156]
15	admin	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.0.201 UID:30980]
16	admin	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.88.130 UID:7124]
17	admin	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.88.129 UID:27361]
18	admin	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.88.128 UID:4675]
19	admin	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.12.159 UID:24231]
20	admin	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:PNS ECO 5SP57-12X UID:3988]
21	admin	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.0.200 UID:15078]
22	admin	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.0.200 UID:18860]

Table 7-1 Log management

No.	Functions	Description
1	Time	Set the start and end time of querying
2	Log types	The default is to select all. Other types have operation logs, system logs, and service logs.
3	Log options	The default is to select all. There are many options to select.
4	Keyword	Set keyword and quickly query
5	Query	Search logs according to the previous settings
6	The query show	Query result display area.
7	Interface display	Show the current page of logs, and the page displays the number of logs, switch to next page.

7.5 User

At the user management page, you can add users /modify user privilege/search/delete user through user management feature

System has default administrator and operator administrator has all the privileges, operator has partial privileges

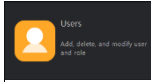
On the main menu page, Click , go to detailed page as shown in Figure 7-10.

Figure 7-10 User management interface

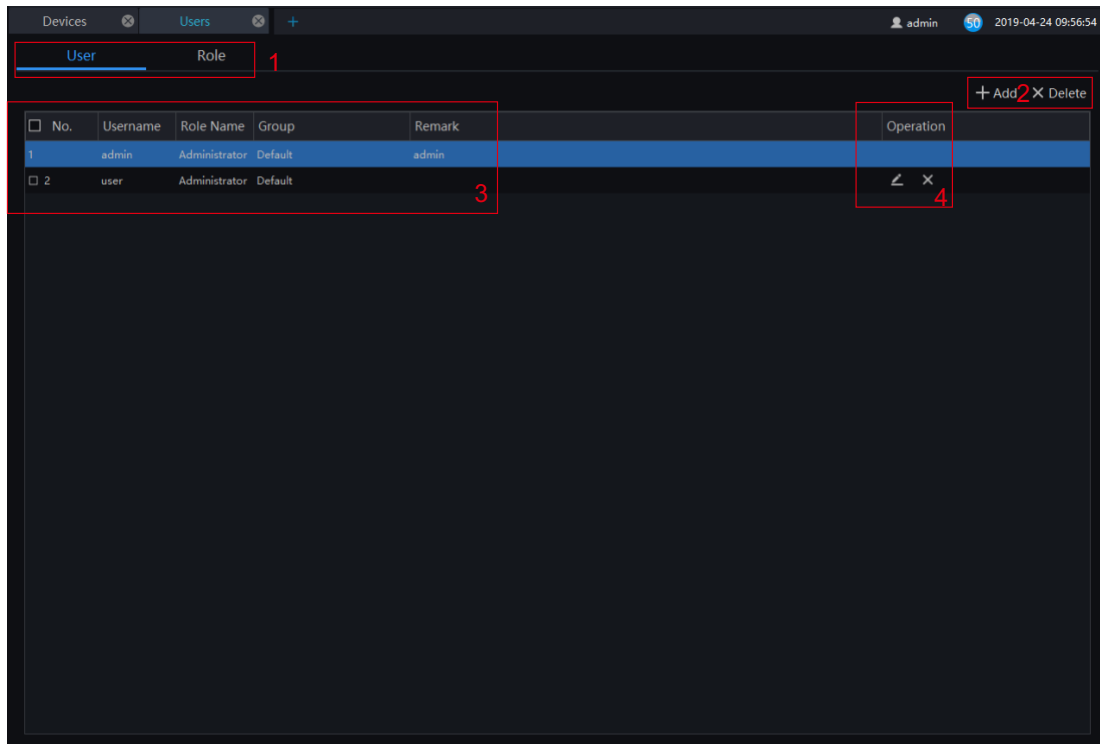


Table 7-1 User management

No.	Function	Description
1	User and role	Choose user or role to operate.
2	Add/Delete	Add/delete user or role.
3	Display area	Display user/role information
4	Edit/Delete	Click edit/delete icon to operate current roles or users

7.5.1 Add User

Procedure:

Step 1 At the user management interface, click “Add” to add user.

Figure 7-11 Add User

+ Add User [X]

Username: Password:

Role Name: **Administrator** Group: **Default**

Remark:

Menu Privilege | Channel Privilege | Face Lib Privilege

☒ Select All	☒ Playback	☒ Devices	☒ Layout
☒ Live View	☒ E-Map	☒ Real-time alarm	☒ Group
☒ Log	☒ Alarm Search	☒ Report Statistics	☒ Face Recognition
☒ Users	☒ Servers	☒ Temperature Search	☒ AI Recognition
☒ Device Config	☒ Vehicle identify	☒ Entrance Guard	☒ Face Lib manage
☒ Health Archives	☒ Face search	☒ License plate search	☒ Person and car search
☒ License plate manage	☒ License match config	☒ Temperature config	☒ Alarm mail
☒ Face match config	☒ Thermal image search	☒ Thermal image history	☒ Attendance preview
☒ Thermal image config			

[Save and New] [Add] [Cancel]

Step 2 Input user name, try to set it with numbers and English characters. User name can be set “Administrator” or “Operator”.

Step 3 Set login password and group.

Step 4 Select menu privilege, channel privilege and face library privilege (The default is all selected).

Step 5 Click “Save and New” or “Add” to save and add user, it will pop-up “add successfully”.

7.5.2 Add Role

Procedure:

Step 1 At the user management interface, click “Role Name” to get the below interface

Figure 7-12 Role interface

User | **Role** | + Add | X Delete

No.	Role Name	Group	Remark	Operation
1	Administrator	Default	Administrator	
2	Operator	Default	Operator	
3	role 1	Default		⏏ X

Step 2 Click “Add”, input role name, select organization, shown as figure 7-4.

Figure 7-13 Add role

+ Add Role

Role Name

Remark

Group: Default

Menu Privilege

Channel Privilege

Face Lib Privilege

☒ Select All

☒ Live View

☒ Log

☒ Users

☒ Device Config

☒ Health Archives

☒ License plate manage

☒ Face match config

☒ Thermal image config

☒ Attendance statistics

☒ Playback

☒ E-Map

☒ Alarm Search

☒ Servers

☒ Vehicle identify

☒ Face search

☒ License match config

☒ Thermal image search

☒ Attendance config

☒ Devices

☒ Real-time alarm

☒ Report Statistics

☒ Temperature Search

☒ Entrance Guard

☒ License plate search

☒ Temperature config

☒ Thermal image history

☒ Traffic statistics

☒ Layout

☒ Group

☒ Face Recognition

☒ AI Recognition

☒ Face Lib manage

☒ Person and car search

☒ Alarm mail

☒ Attendance preview

☒ Temperature statistics

Save and New

Add

Cancel

Step 3 Choose menu privileges, channel privilege, face library privilege.

Step 4 Click “Save and New” to save current settings. Click “Add” to add user successfully.

Step 5 Added role will display in the interface, click “edit” or “delete” icon to operate roles.

7.6 Servers Management

At the interface of service manager, you can view the running status, performance data, and parameter configuration of the server to understand better the server running data and better maintain the system.

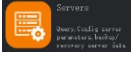
On the main menu page, click  to enter the detailed page, as shown in Figure 7-14.

Figure 7-14 Servers management interface

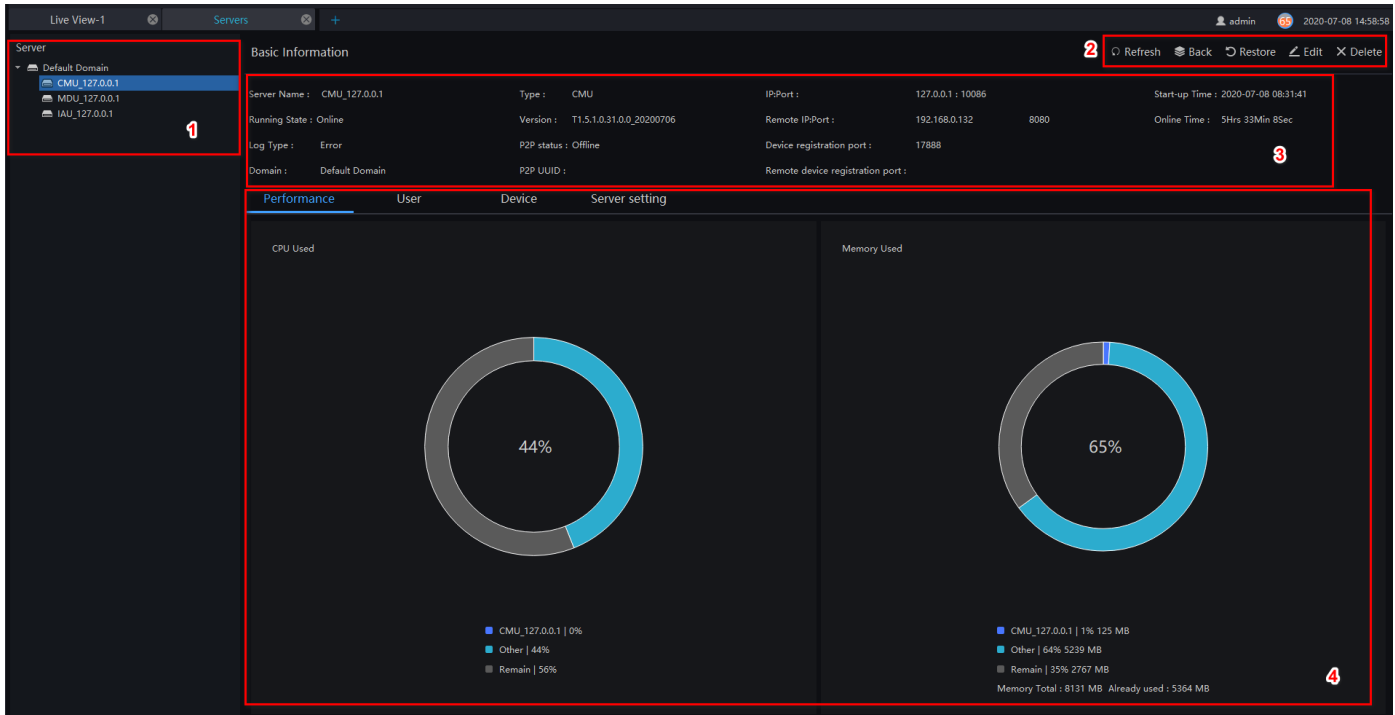


Table 7-1 Servers management

No.	Function	Description
1	Server	Default Server Domain, CMU/MDU/IAU Server
2	Basic information	Basic information displays - At the main menu interface, click on the server management screen to display the device configuration screen as displayed in Figure 17-1. - Edit the P2P UUID, user can view and manage the platform through the mobile - Click “Edit”, edit the server name, select the log level, and log retention days. Click “Save” to save the relevant settings.
3	Basic operation	Refresh, edit, delete server related information (online service device cannot be deleted)
4	Performance, other information display	Performance display area, capture information

7.6.1 Central Management Server

Data backup and recovery normally is used for system migration, which requires data backup first and recovery then. The backup data contains data from database, like users, device, server, alarm, log, face photos, etc.

Data backup means it will download data from the server where the VMS installed. Data recovery means it will upload the backup data to the servers, it includes perform recovery operations and ensure the system resume normal work.

Server setting, user can set the general parameters of snapshot face capture threshold, the parameters can be used to all cameras with these functions, as shown in Figure 7-15.

Figure 7-15 Server Setting

The screenshot displays the 'Server setting' interface with the following configuration details:

- Performance** | **User** | **Device** | **Server setting**
- Basic Setting**
 - Synchronization device time: ☒
 - Temperature selection: Celsius
 - Device registration potocol: Private Protocol
 - Apply
- save setting**
 - Log Save Days: 7 Day
 - Data Save Days: 90 Day *Can't be less than any of the following snapshot retention time
 - Over temperature capture retention time: Hrs *Data retention days cannot be exceeded
 - Other temperature capture retention time: Hrs *Data retention days cannot be exceeded
 - Large image storage mode: All
 - Snapshot path: Default Default path
 - Apply
- Snapshot Setting**
 - Face capture recognition free: ☐ ?
 - Mask recognition: ☐ ?
 - Alarm without mask: ☐ ?
 - Time to capture and remove heavy objects: 30s
 - Face algorithm mode: Local IAU
 - Apply
- Face capture threshold**
 - Ambiguity: 0.0
 - Confidence Coefficient: 0.6
 - Face size(Long): 80 px
 - Face size(Wide): 80 px
 - *Capture images below threshold will be filtered
 - Apply

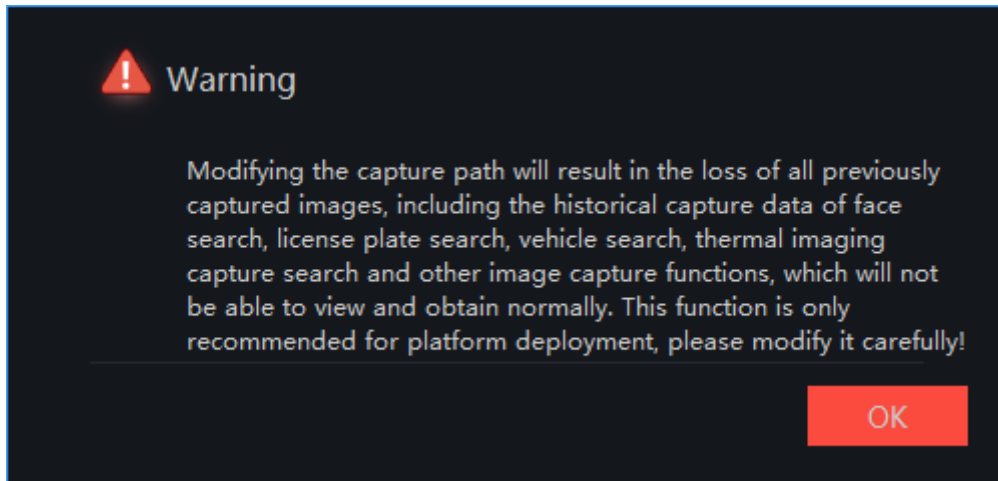
There are four settings for server, they are basic setting, save setting, snapshot setting, face capture threshold.

Basic Setting: synchronization device time, temperature selection unit, device registration protocol (the alarm box can add to platform by private protocol encrypted).

Save Setting: log save days, data save days, over temperature capture retention time, other temperature capture retention time, large image storage mode, snapshot path.

When you modify the snapshot path, you must attention that, as shown in Figure 7-16

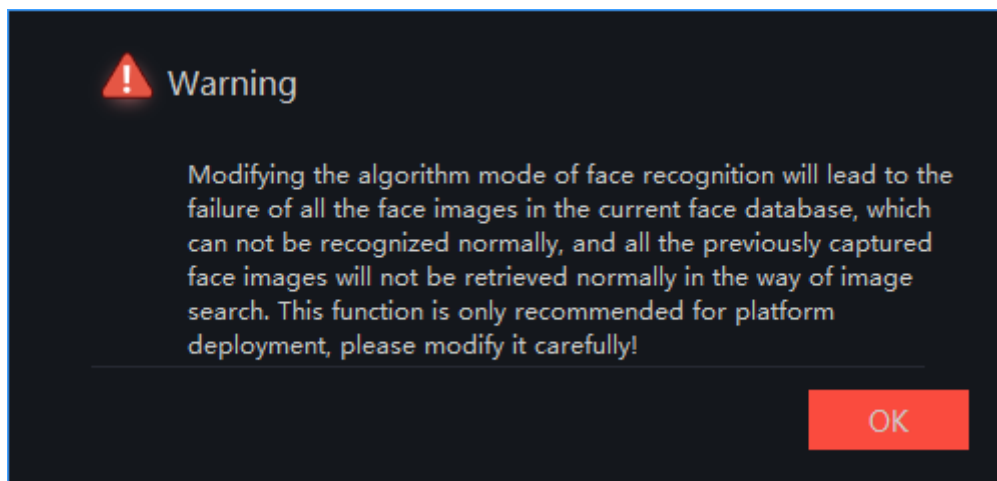
Figure 7-16 Modifying capture path



Snapshot Setting: face capture recognition free, mask recognition, alarm without mask, time to capture and remove heavy objects, face algorithm mode.

When you modify the snapshot path, you must attention that, as shown in Figure 7-17

Figure 7-17 Modifying face algorithm mode



Step 1 Enable synchronization to set the time to facilitate unified management of the device and reduce inconvenience caused by inconsistent time.

Step 2 Choose the mail temperature unit, all the temperature unit sent to mail will be unity as the setting.

Step 3 Set the snapshot of the duplication time of removing the similarity capture. In the drop-down list, 5S, 10S, 15S, 30S.

Step 4 Snapshot saving path. It is best not to change the default path. Only change it if you have special needs.

Step 5 Enable face capture recognition free, the system will measurement the temperature only, it will save the performance of system.

Step 6 Enable mask recognition, the system will recognition the face wear mask.

Step 7 If the mask recognition is enable, user can enable the alarm without mask, when recognize someone is without mask, it will send alarm information.

Step 8 The face algorithm mode can choose local IAU and face algorithm box.

Step 9 Face capture threshold, ambiguity, confidence coefficient, face size length and width.

Step 10 Click "OK" to save the settings.

NOTE

Enable face capture recognition free, skip face recognition operation and only perform temperature measurement management. All captured faces will be treated as strangers and cannot be searched by the image search function. The recognition-free mode is suitable for scenarios that do not pay attention to the identification of personnel, such as airport, subway, station and other bayonet entrances, parks, and public service agencies.

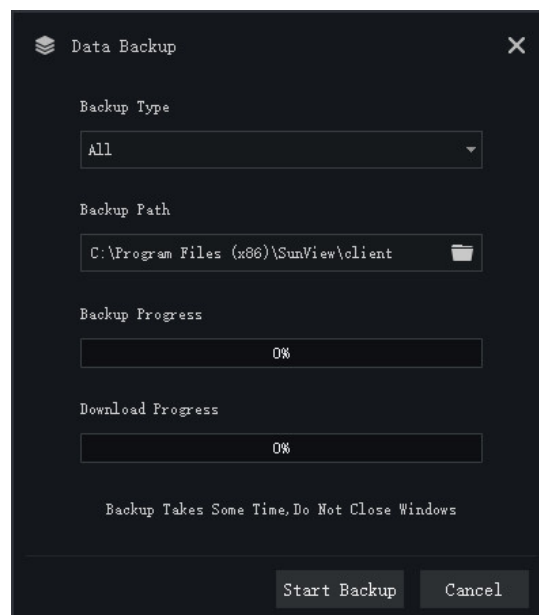
Capture retention time: Over-temperature capture retention time: delete over-temperature data in the server and database at the same time. Other temperature snapshot retention time: delete other temperature data in the server and database at the same time.

7.6.2 Data Backup

Procedure:

Step 1 Click “backup” button at right upper of screen, then the pop-up window appears, as shown in Figure 7-1 ;

Figure 7-18 Date backup



Step 2 Browser the backup path, click “start backup” to back-up the server’s data.

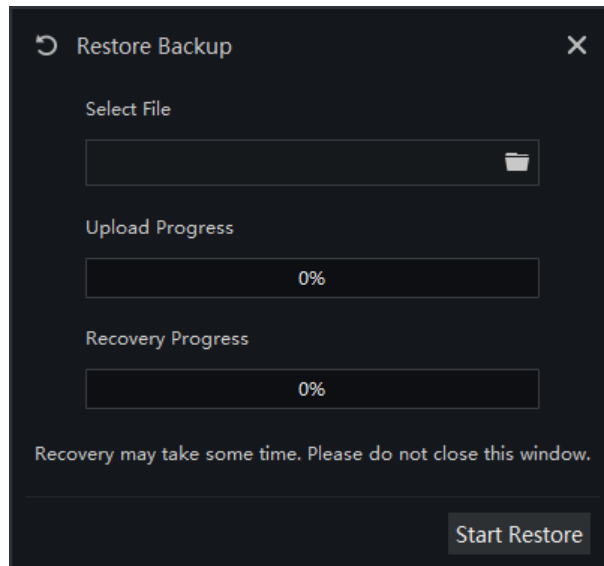
Step 3 After backup successfully, the backup progress display “100%”;

Step 4 Click  to exit backup.

7.6.3 Date Recovery

Click  and the pop-up window shows as Figure 7-2, choose the download data

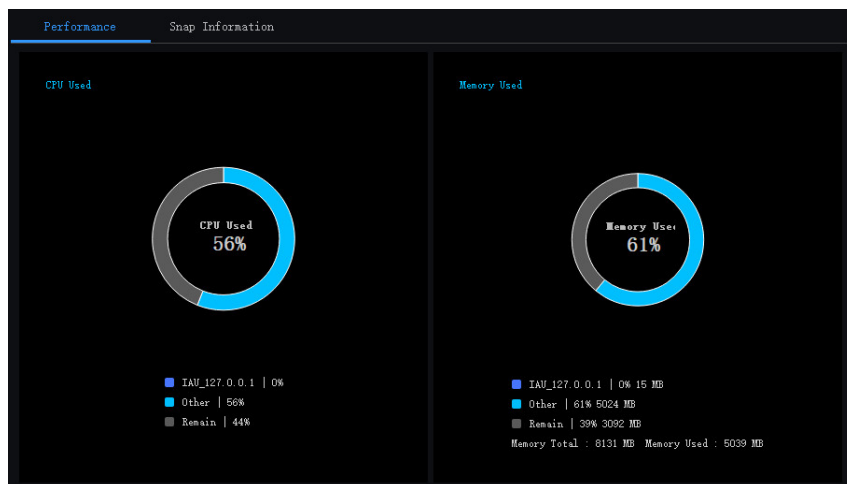
Figure 7-19 Restore backup



7.6.4 Media Distribution Server

7.6.4.1 Performance

Figure 7-20 Performance



7.6.5 Distribution Status

Figure 7-21 Distribution Status

Performance <u>Dispense Video</u>					
No.	Channel UID	IP:Port	Bit Rate Input	Bit Rate Output	Request Time
1	103166_01	127.0.0.1:59566	4181	4185	2018-11-15 15:44:37
2	FFF345_01	127.0.0.1:59581	97	102	2018-11-15 15:44:57
3	573030_01	127.0.0.1:59571	4307	4311	2018-11-15 15:44:40
4	031006_01	127.0.0.1:59574	4129	4133	2018-11-15 15:44:43

7.6.6 Intelligent Analysis Server

7.6.6.1 Performance

Please refer to chapter 18.2.1

7.6.6.2 Snap Information

NOTE

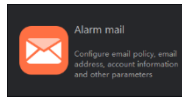
This function is generally applicable to the face capture device, it can analyze image if the device captures normally. If the number of captured face is 0, please check whether the camera is configured correctly. The details are shown as Figure 7-22.

Figure 7-22 Snap information

Server		Server Information Refresh Edit Delete					
- Default Domain - CMU_127.0.0.1 - MDU_127.0.0.1 IAU_127.0.0.1		Server Name: IAU_127.0.0.1 Server Type: IAU Domain: Default Domain Start-up Time: 2019-04-25 09:53:01 Running State: Online Online Time: 0hrs 56min 12sec IP:Port: 127.0.0.1 : 10100 Version: 1.1.5.20190402 Log Type: Error Data Save Days: 90 Log Save Days: 7 Day IAU Env: CPU Valid					
Performance <u>Snap Information</u>							
No.	Channel UID	IP:Port	Login Time	Face Snap Count	Face Valid Co	Body Snap Cc	Body Valid Co
1	837_001	192.168.32.156:30001	2019-04-25 09:53:02	0	0	0	0
2	FFFB11_001	192.168.10.208:30001	2019-04-25 09:53:02	0	0	0	0
3	FFFB12_001	192.168.10.210:30001	2019-04-25 09:53:02	39	21	0	0

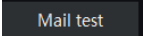
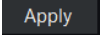
7.7 Alarm Mail

Set the alarm information sender information and recipient information. When sending an alarm, it can be pushed to the corresponding personnel by email.



On the main menu page, click  to enter the detailed page, as shown in Figure 7-23.

Figure 7-23 Alarm mail

- Step 1 Click  to add the new strategy.
- Step 2 Input the name and information of SNMP.
- Step 3 Click  to test the settings.
- Step 4 Click  to save the settings.

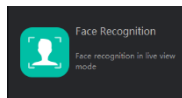
8 Face Recognition

The face recognition can transfer the parameter of AI NVR, such as face library, thermal temperature measurement, face search, and so on.

Face recognition supports algorithm calculation using CPU or face box, which can be configured on the server management interface.

8.1 Face Recognition

On the Face Recognition function page, you can view the results of face capture and face comparison in real time. This function needs to add a face image in advance through the "Personnel Information Management" function page. Can be broadcast by device voice.



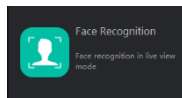
On the main menu page, click  to enter the detailed page, as shown in Figure 8-1.

Figure 8-1 Face recognition

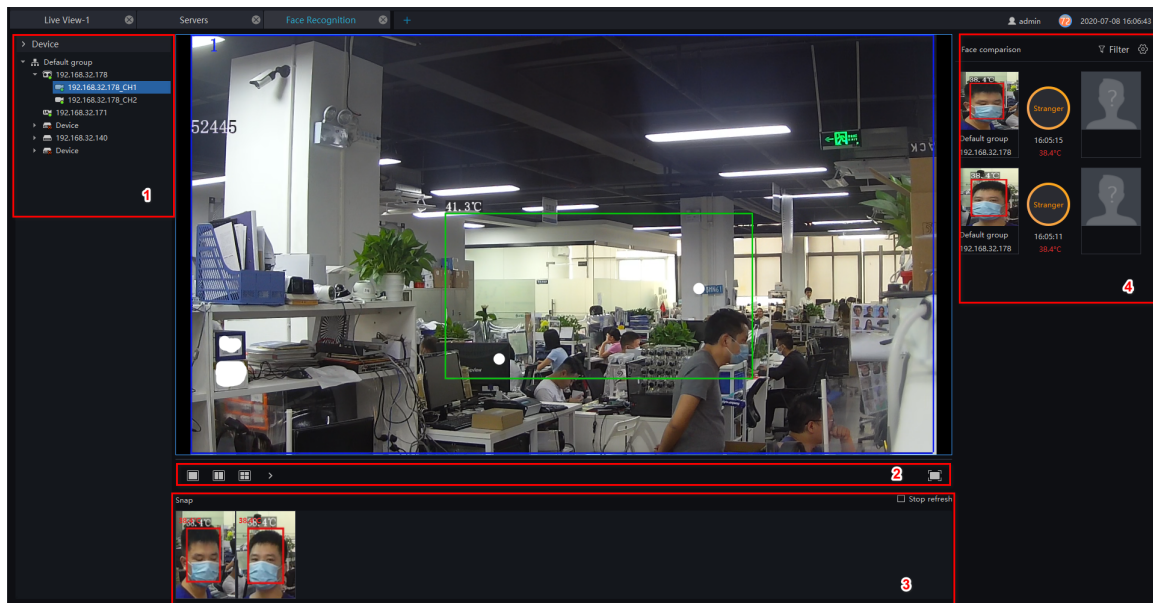
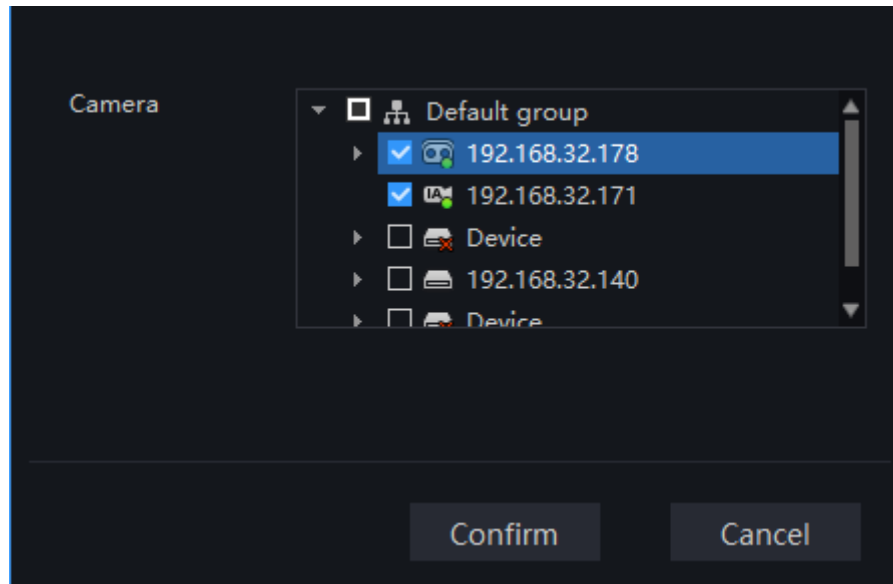


Table 8-1 Face recognition

No.	Function	Description
1	Devices list	Show the devices with face recognition function.
2	Layout	Choose the layout of video.
3	Alarm snapshot	Alarm information About over-temperature face capture display, you can choose to stop refresh.

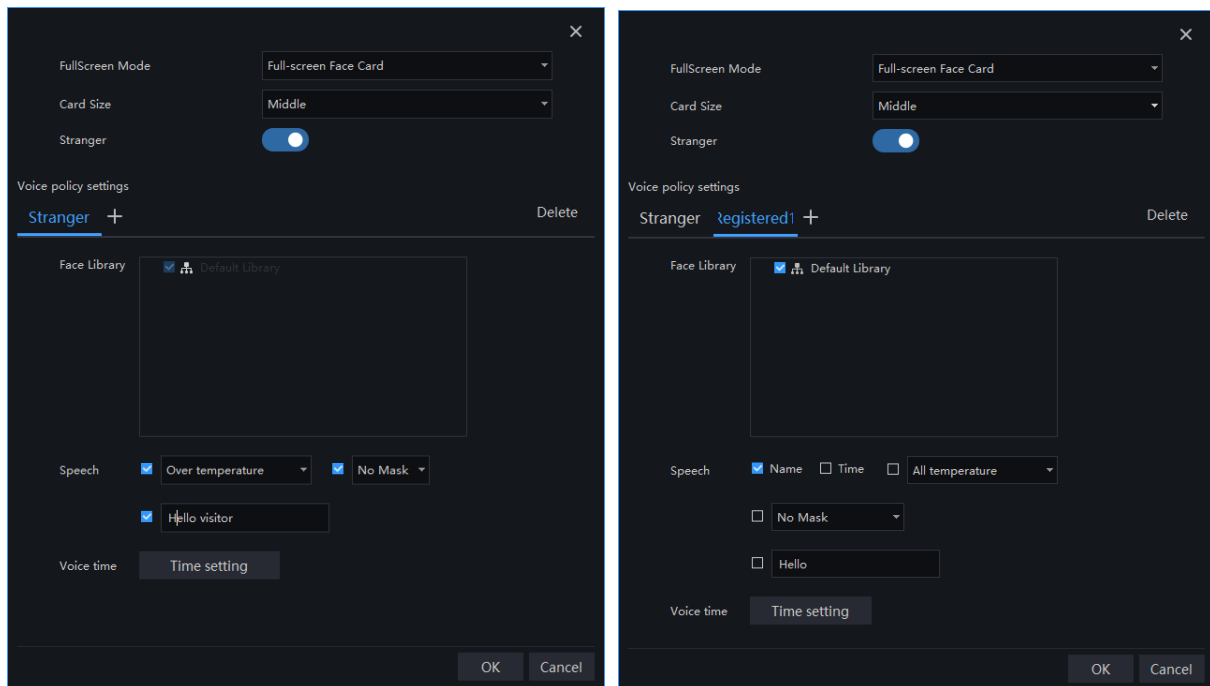
No.	Function	Description
4	Face comparison	The snapshot face compare with the library. Filter the device of capture the face, you can correspond channel quickly, if set the filter. Set the broadcast Figure 8-3.

Figure 8-2 Filter device



- Step 1 The devices have face capture function that automatically captures the face. The snapshot show on the area of face comparison.
- Step 2 Click the search icon in the lower right corner of the snapshot image to go directly to the smart search interface.
- Step 3 Similar faces of the face database appear again in the picture, and faces higher than the set similarity will be compared in the comparison area and related information is displayed.
- Step 4 Click “+” that appears on the picture to add it directly to the face database.

Figure 8-3 Voice announcement setting

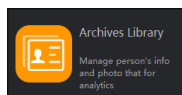


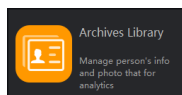
Procedure:

- Step 1 Select the full screen display mode, there are two modes, cards (need to set the card size) and list card.
- Step 2 Enable the stranger, If not the stranger snapshot image is not show on comparison area.
- Step 3 Strangers can set the content of the voice broadcast, the characters are within 10 characters.
- Step 4 The staff already in the library tick the face library, it can set whether to speech the name, time of snapshot, and play text.
- Step 5 Set the voice time.
- Step 6 Click “+” that appears on the picture to add it directly to the face database.

8.2 Face Library Manage

At the interface of face library management, a multilevel face library directory can be created. Different face libraries can be added and edit personnel information for face recognition. When the camera detects a face, it can be compared with the library to identify, who was captured.



On the main menu page, click  to enter the configuration page, as shown in Figure 8-4

NOTE

This function is only subject to face detection cameras and license plate detection cameras.

Figure 8-4 Archives library

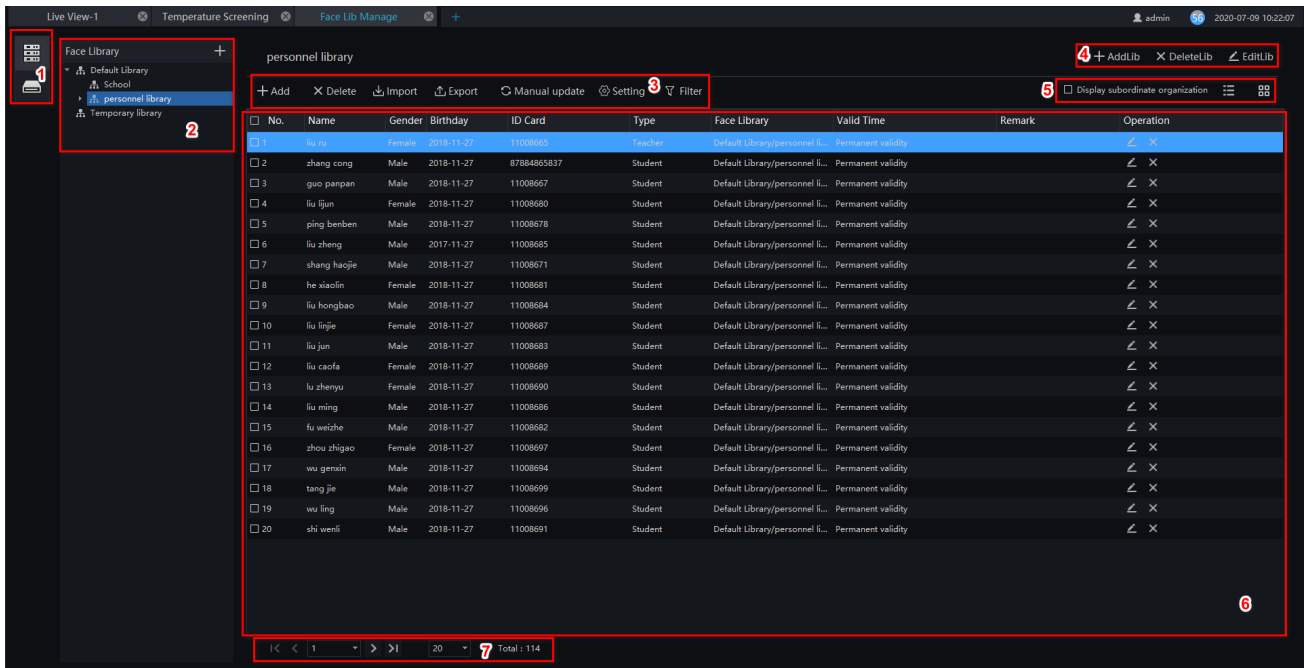


Table 8-1 Face library

No.	Function	Description
1	Face database of platform or Intelligent NVR	Click the icon to switch the face database.
2	Face Library	Face library, default group, add library.
3	Basic operation of person	Add, delete, import, exporting, manual update and filter person.
4	Basic operation of library	Add, delete, and edit library.
5	Arrangement	Tick or not display subordinate organization. List mode, card mode.
6	Display information	Face library basic information display.
7	Page information	Page number, number of pages per page, total number of showing. Switch to next page.

Figure 8-5 Temporary library

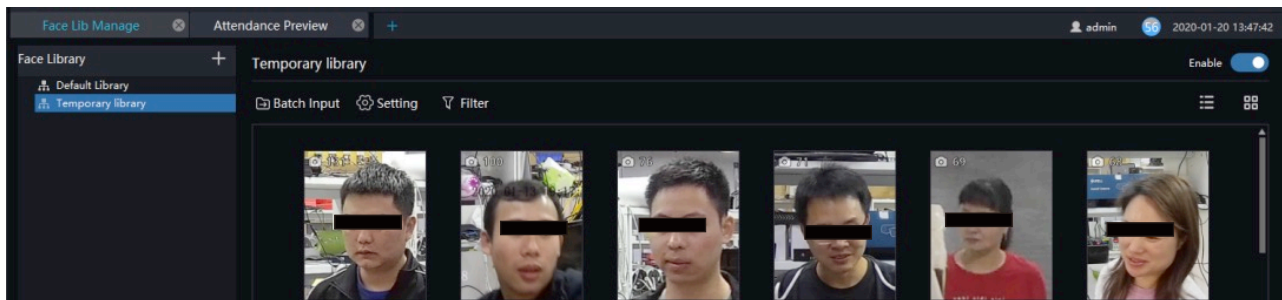
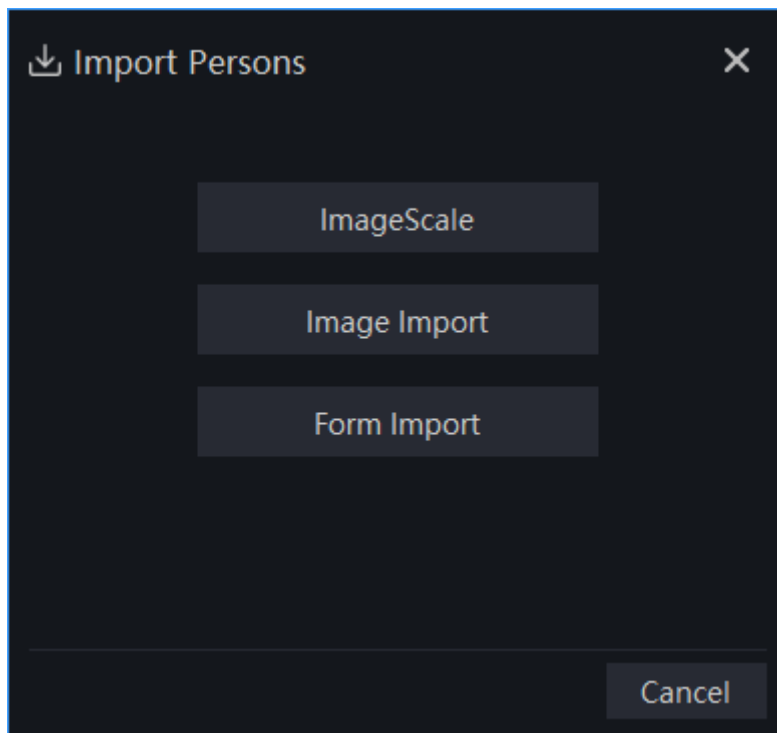


Figure 8-6 Import



The temporary library will show the all of capture faces, and the number of snapshots will show on the picture.

Click  on picture to add stranger to library.

Click  to enter face search.

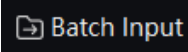
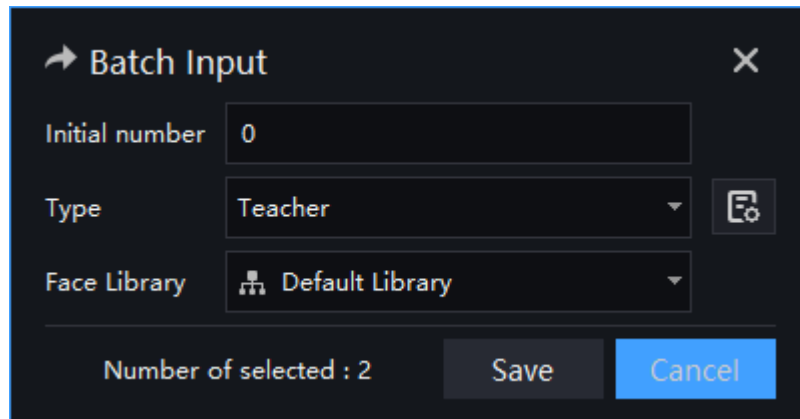
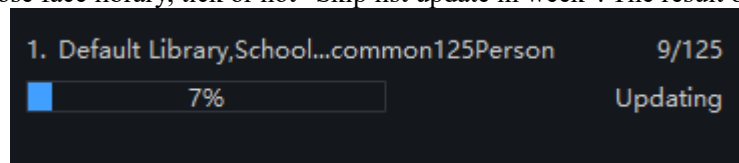
Click  to enter the batch input interface to add the library, as shown in Figure 8-7.

Figure 8-7 Batch input



The image shows a 'Batch Input' dialog box with a title bar containing a back arrow and a close 'X' button. Inside the dialog, there are three input fields: 'Initial number' with the value '0', 'Type' with a dropdown menu showing 'Teacher', and 'Face Library' with a dropdown menu showing 'Default Library'. To the right of the 'Type' dropdown is a small icon of a document with a plus sign. At the bottom of the dialog, there is a status bar that says 'Number of selected : 2', followed by 'Save' and 'Cancel' buttons.

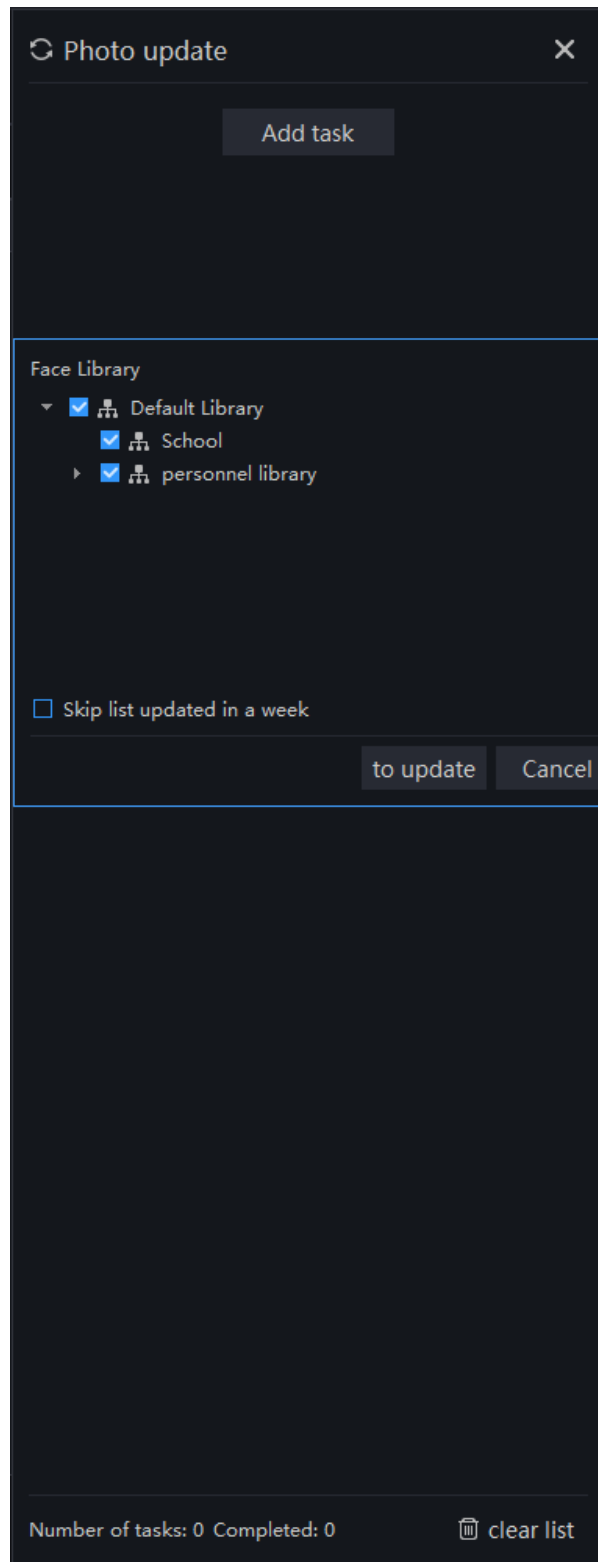
Click **Manual update** to update the face date manually, enter the interface as shown in Figure 8-8. Click “Add task” to choose face library, tick or not “Skip list update in week”. The result of update will show



The image shows a window displaying the progress of a face library update. It lists '1. Default Library, School...common125Person' with a progress bar that is 7% full. To the right of the progress bar, it shows '9/125' and the word 'Updating'.

on window, as shown in

Figure 8-8 Manual update



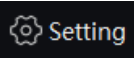
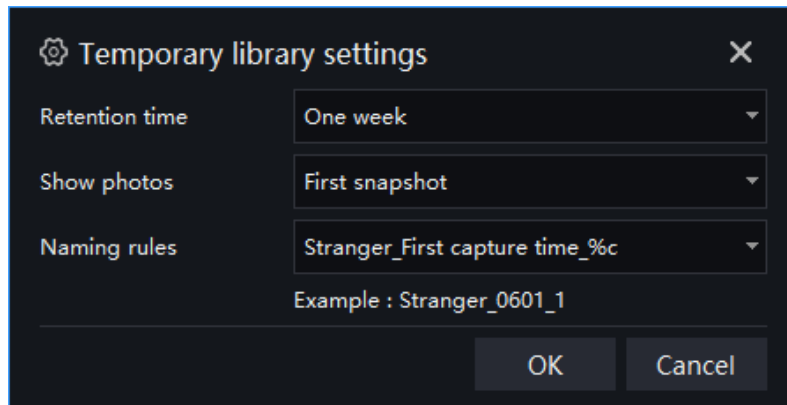
Click  to set temporary library settings, as shown in Figure 8-9.

Figure 8-9 Temporary library setting



The dialog box titled "Temporary library settings" has a close button (X) in the top right corner. It contains three settings:

- Retention time:** A dropdown menu set to "One week".
- Show photos:** A dropdown menu set to "First snapshot".
- Naming rules:** A dropdown menu set to "Stranger_First capture time_%c". Below this, an example is shown: "Example : Stranger_0601_1".

At the bottom right, there are two buttons: "OK" and "Cancel".

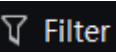
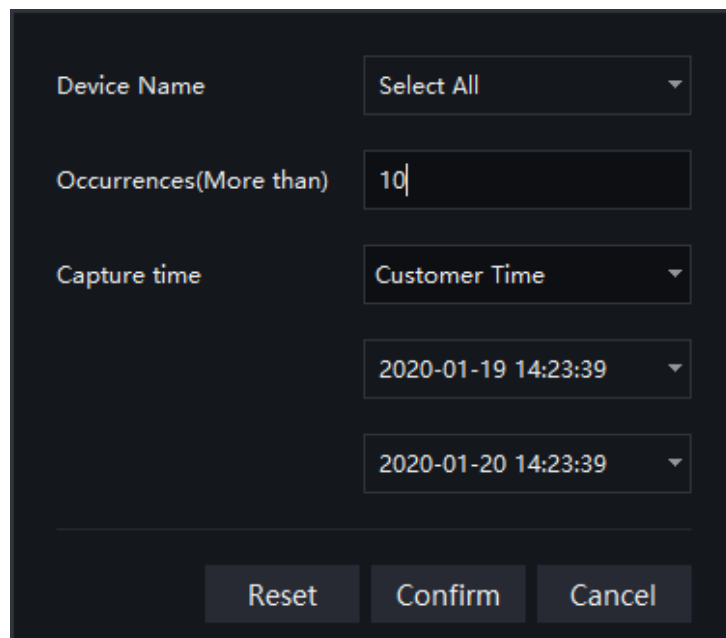
Click  **Filter** to set filter, as shown in Figure 8-10.

Figure 8-10 Filter



The dialog box titled "Filter" has three main sections:

- Device Name:** A dropdown menu set to "Select All".
- Occurrences(More than):** A text input field containing the number "10".
- Capture time:** A section with two dropdown menus. The first is set to "Customer Time". Below it, there are two date-time dropdowns: "2020-01-19 14:23:39" and "2020-01-20 14:23:39".

At the bottom, there are three buttons: "Reset", "Confirm", and "Cancel".

The temporary library is live update.

8.2.1 Add Face Library

Procedure:

Step 1 Click  to add face library.

Step 2 Input library name, remark, choose library , as shown in Figure 8-11.

Figure 8-11 Add face library

+ Add Face Library ×

Library Name

Face Library 👤 Default Library ▼

Remark

Save and New Save Cancel

Step 3 Click “save” to save settings. Click “save and new” to save and add another one.

8.2.1.1 Add Personnel Information

Procedure:

Step 1 Select a face library

Step 2 Click + Add to add new personnel information

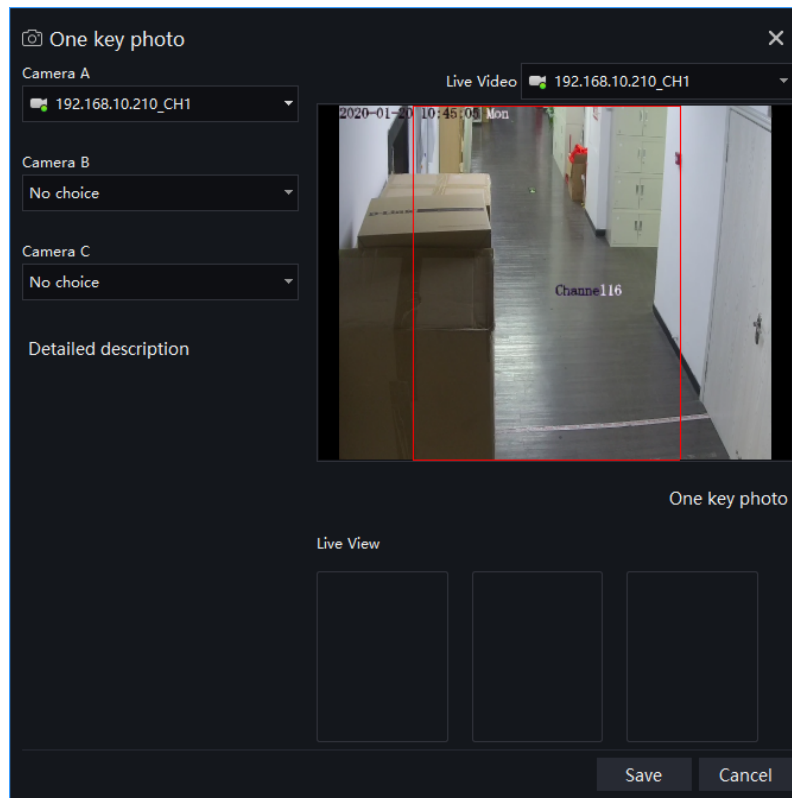
Step 3 Input the information as shown in Figure 8-12.

Figure 8-12 Person enroll

Step 4 Support one person to add multiple images, increase the comparison rate, each selected photo has a delete icon, click to delete.

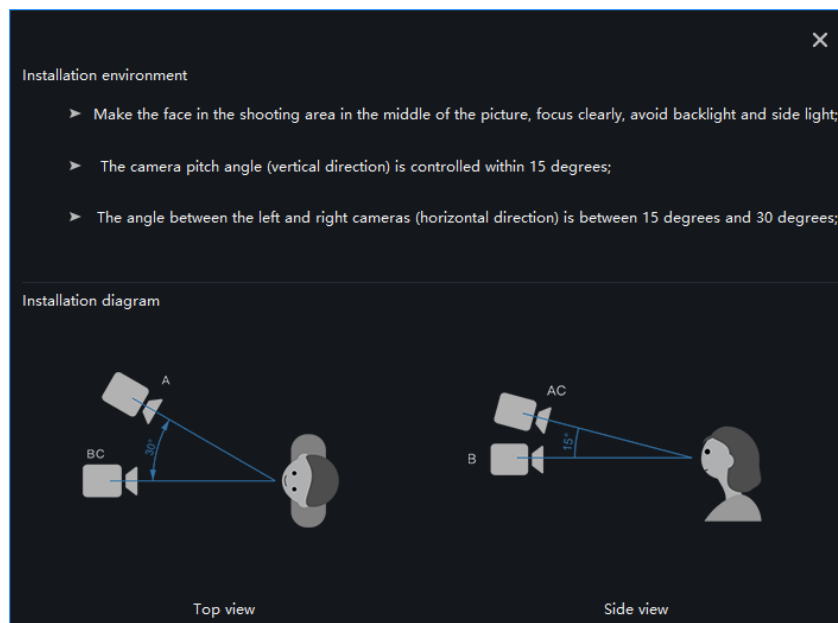
Step 5 Click “One key photo” to enter capture person immediately, as shown in Figure 8-13.

Figure 8-13 One key photo



Step 6 Choose one camera to snapshot, if you want to collect multiple pictures and improve the correct of comparing, you can choose three cameras to snapshot through different angle, as shown in Figure 8-14. The cameras of computer also can capture the human face to face database.

Figure 8-14 Best installation angle



Step 7 Click “ Save ”, the showing “Add person succeed” and add succeed.

TIP

Clear face image could be highly recommended, which can get higher accuracy for comparison.

8.2.1.2 Batch Import

Procedure:

- Step 1 Click “Export ”, select “Export template”.
- Step 2 Edit above Export template, and save.
- Step 3 Click above edited Export template to import all personnel information.

8.2.1.3 Batch Export

Procedure:

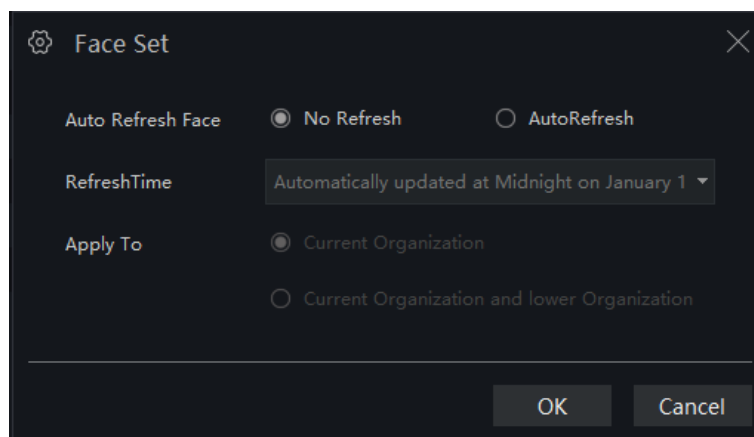
- Step 1 Click “Export” to get into the Export interface.
- Step 2 Choose the save path, and click “ save” to save the settings.

8.2.1.4 Face setting

Procedure:

- Step 1 Click “Setting” to get into the face setting interface, as shown in Figure 8-15.

Figure 8-15 Face setting



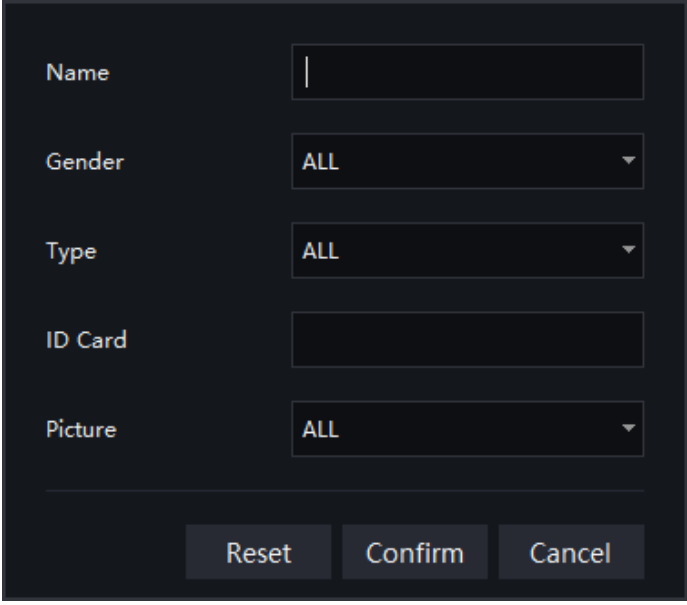
- Step 2 Choose “No Refresh” or “ Auto Refresh”.
- Step 3 Set the refresh time and apply to.
- Step 4 Click “OK” to save the settings.

8.2.1.5 Filter

Procedure:

- Step 1 Click “Filter” to get into the filter interface, as shown in Figure 8-16.

Figure 8-16 Filter setting

A dark-themed dialog box for filter settings. It contains five rows of controls: 'Name' with a text input field, 'Gender' with a dropdown menu showing 'ALL', 'Type' with a dropdown menu showing 'ALL', 'ID Card' with a text input field, and 'Picture' with a dropdown menu showing 'ALL'. At the bottom, there are three buttons: 'Reset', 'Confirm', and 'Cancel'.

Name	
Gender	ALL ▼
Type	ALL ▼
ID Card	
Picture	ALL ▼
Reset Confirm Cancel	

Step 2 Input the name need to filter.

Step 3 Choose the gender , type and photo.

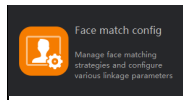
Step 4 Click “Confirm” to save the settings.

8.3 Face Match Configuration

At the Face Match configuration page, you can add a comparison strategy between the camera and the face library for different cameras to be compared with different face databases. When the camera detects a face, it only compares with the chosen library.

NOTE

This function is only subject to Face Detection cameras.



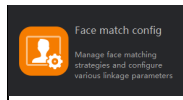
On the main menu page, click  to view the configuration interface, as shown in Figure 8-17.

Figure 8-17 Face Match configuration interface

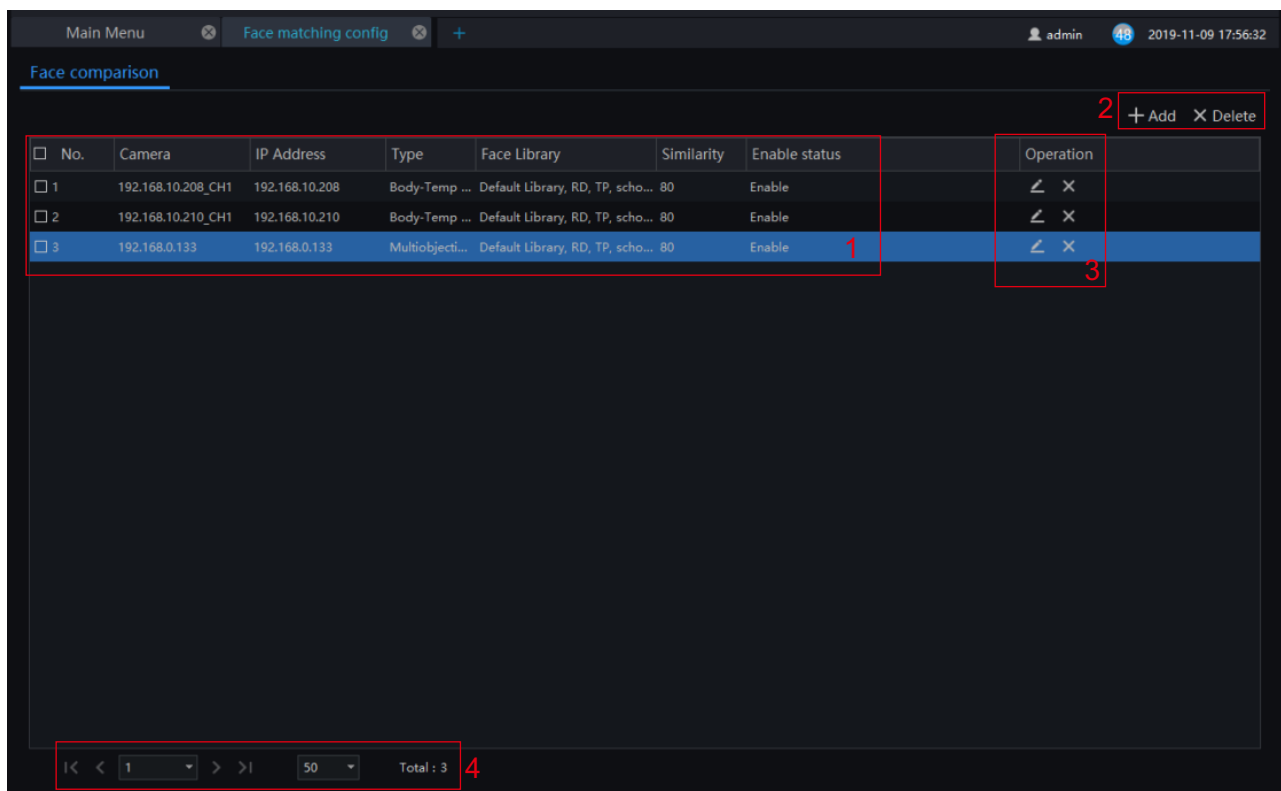


Table 8-1 Strategy configuration

No.	Function	Description
1	Detail of face comparison	Setting up face comparison detail information.
2	Basic operation	Add, Delete
3	Operation	Modify and delete the face library.
4	Page information	Page number, number of pages per page, total Switch to next page

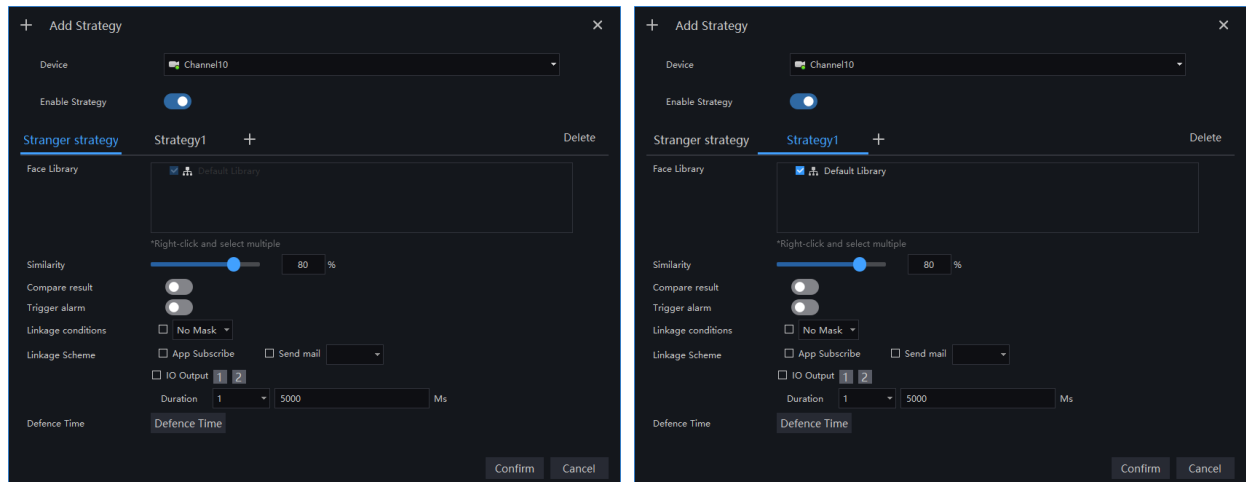
8.3.1 Face Comparison Configuration

Procedure:

Step 1 Click icon of strategy configuration in new page, into the interface.

Step 2 Click “Add” to get into new face comparison, as shown in Figure 8-18.

Figure 8-18 Add strategy



Step 3 Check camera and face library.

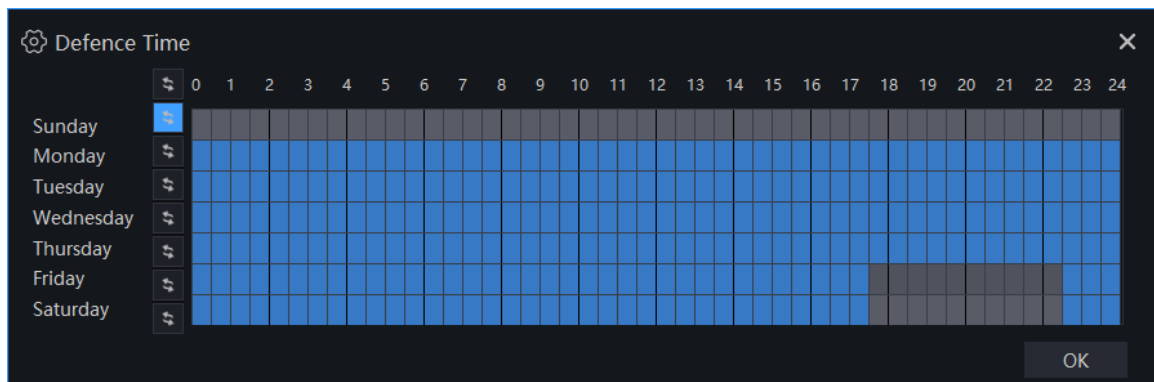
Step 4 Set up Similarity and activate Stranger mode.

Step 5 Click to confirm the success of adding face comparison, relative devices showing in the list and executable for both Edit and Delete.

User can tick the linkage conditions, such as over temperature personnel, no mask, these two conditions only use for body temperature cameras.

Linkage scheme can tick App subscribe, Send mail, IO output (choose ID, set duration).

Figure 8-19 Defense time



8.4 Face Search

At the Smart Search function page, you can select a face image to retrieve a face photo that matches the face similarity from the platform and play back the track on the map.

NOTE

This function only supports cameras with face recognition.



On the main menu page, click  to view more detailed interface.

Figure 8-20 Face search

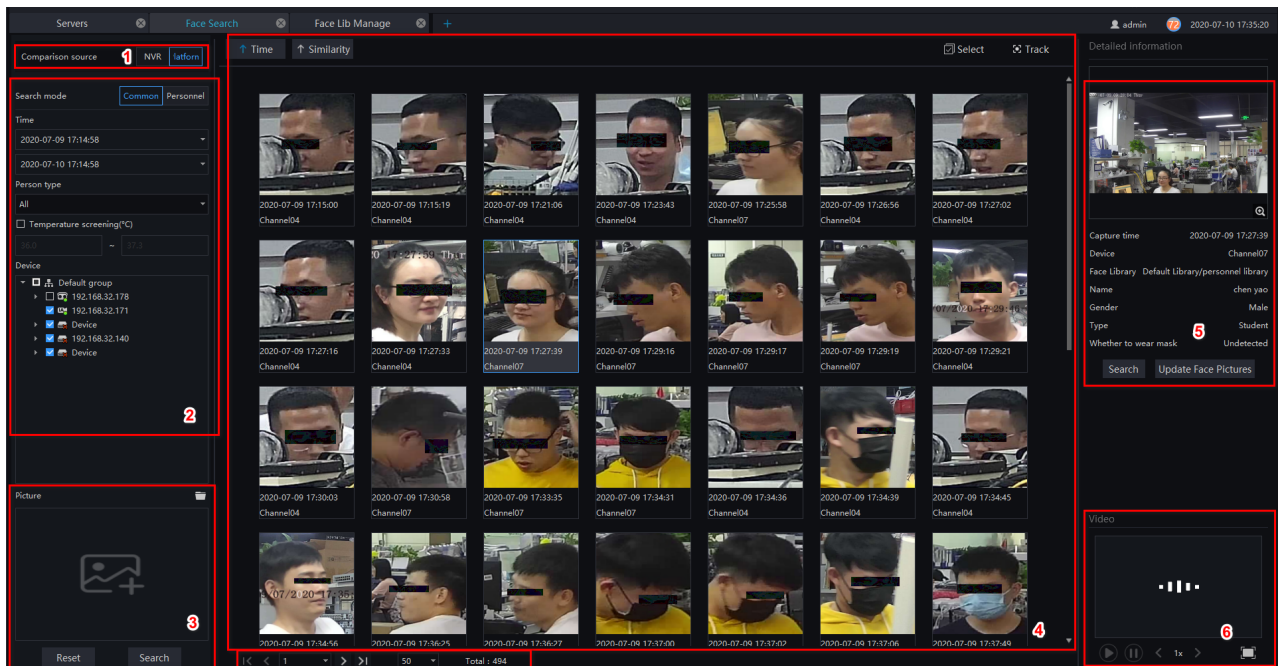


Table 8-1 Smart search

No.	Function	Description
1	Comparison source	Choose the comparison source to search, platform or intelligent NVR(the data come from the storage of NVR).
2	Set search mode	The search modes are common and person. Set the start time of the query. Select the capture camera, tick the group to select all.
3	Set picture	Select picture from the local folder. Set the similarity. Reset: reset the search items. Search: click “Search” and switch the details picture to search

No.	Function	Description
4	Display information	The information can be displayed by time, similarity in row, behavior track.
5	Details	Click on the image of the query result to display the panorama in the captured state. The captured picture can be entered into the face database. Search directly with snap shots. Enroll: click to enroll the searched picture. Enter the face database and search for images. The pictures captured by the camera are generally stored in the snap folder by default.
6	Switch picture to search	If there is a record, you can directly play the video before and after the snapshot.

8.4.1 Image Searching

Procedure:

Step 1 Click  to select image.

Step 2 Set Similarity; set time of searching picture and the capture devices.

Step 3 Click “Search”, the searching results will display by Time and Similarity.

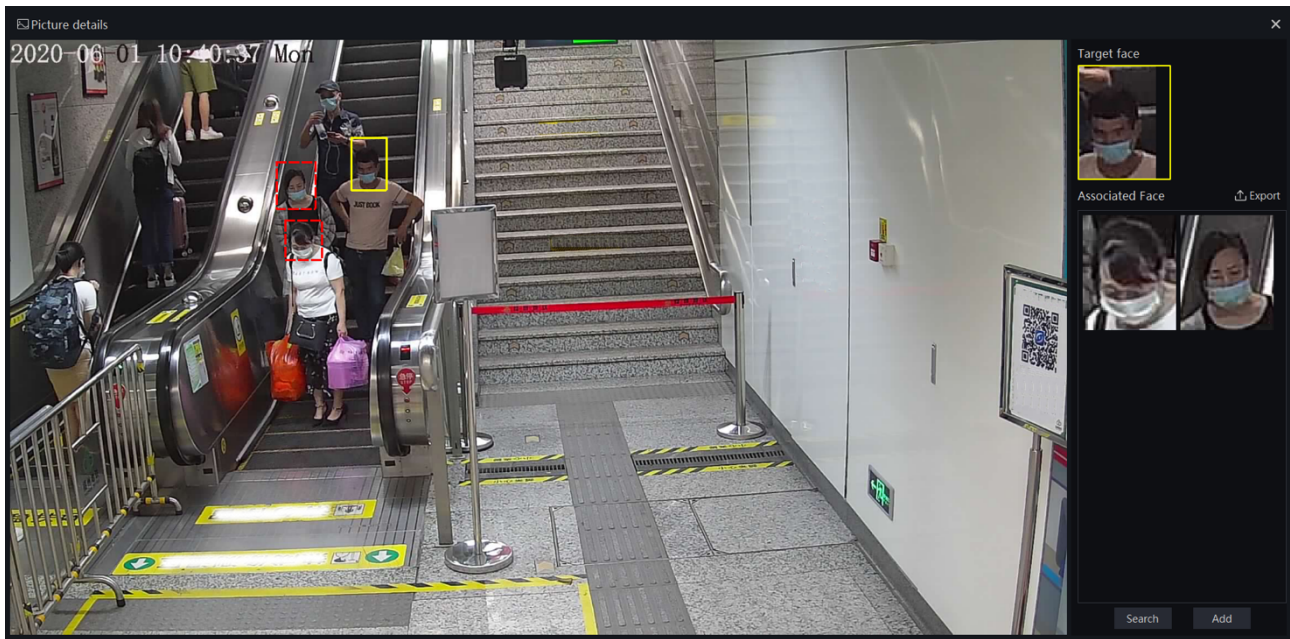
Step 4 Click the images in the result, displaying the details.

Step 5 Click “Enroll” and show the pop up “Person Enroll” interface. Input relative information and save.

Step 6 Click “Select” to choose picture of searching result.

The detailed information show the panorama of snapshot, click  to view the all person at the same screen, as shown in

Figure 8-21 Picture details



The yellow wireframe is drawing the snapshot face.

The red wireframe is drawing the other face at the same scenes.

8.4.2 Track

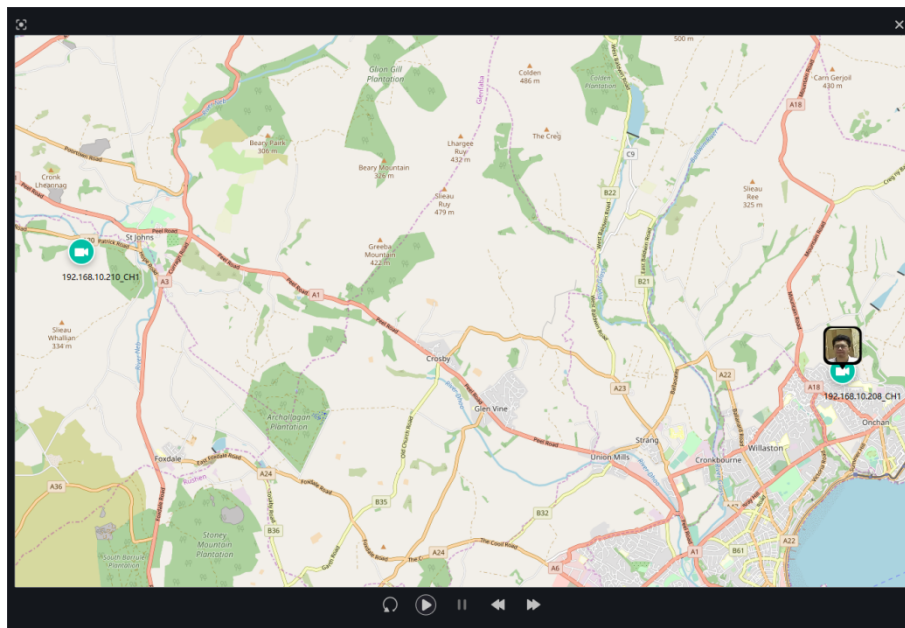
NOTE

User need to set more than two the face detection cameras at the custom e-map at first.

Procedure:

- Step 1 Click “select” to start select pictures.
- Step 2 Tick the pictures from different cameras.
- Step 3 Click “track”, the pop-up track map will show, as shown in Figure 8-22.

Figure 8-22 Track



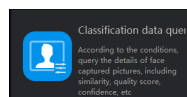
Step 4 Replay or playback the track line.

8.5 Classification Data Query

At the Face Match configuration page, you can add a comparison strategy between the camera and the face library for different cameras to be compared with different face databases. When the camera detects a face, it only compares with the chosen library.

NOTE

This function is only subject to Face Detection cameras.



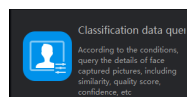
On the main menu page, click  to view the configuration interface, as shown in Figure 8-23.

Figure 8-23 Classification data query

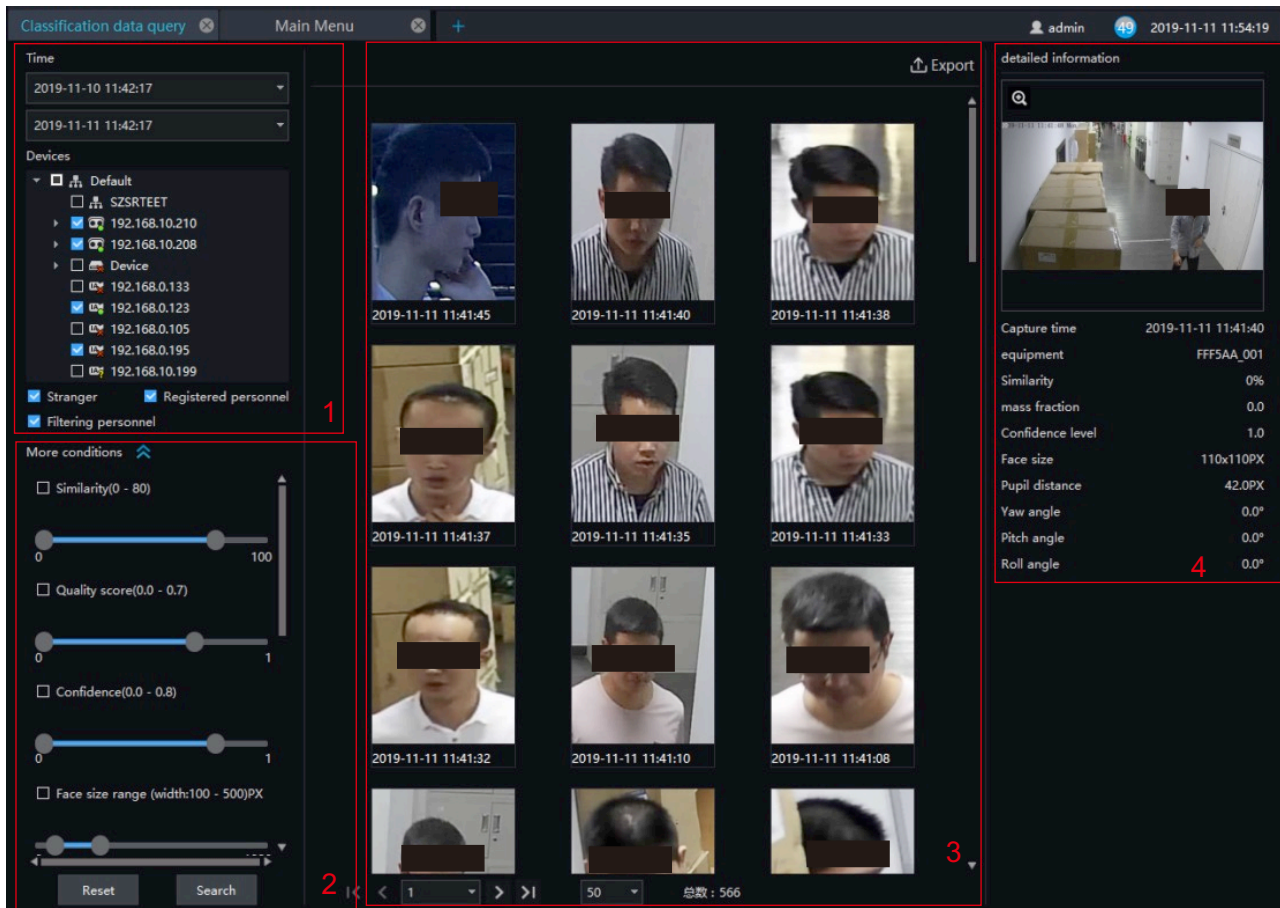


Table 8-1 Smart search

No.	Function	Description
1	Basic conditions of querying	Start time and end time, tick the devices and modes of face libraries.
2	More conditions	Set similarity, quality score, confidence, face size range, pupil distance range, yaw angle, pitch angle, roll angle.
3	Operation of library	The basic operation of license plate library.
4	Detailed information	The result of querying, show the detail information.

Procedure:

- Step 1 Set the query start time and select the device.
- Step 2 Tick the devices of the query. The default is to select all.
- Step 3 Set the classification query conditions and search accurately.
- Step 4 Click “Query” and the result of the query is now displayed.
- Step 5 Click “Reset” to reset the query criteria.

Figure 8-24 More conditions

☐ Mask wearing screening
☒ Worn ☐ Not worn ☐ Undetecte

☐ Similarity(0 - 80)
 0 100

☐ Body temperature(35.0 - 42.0)°C
 35 42

☐ Ambiguity(0.0 - 0.7)
 0 1

☐ Confidence(0.0 - 0.8)
 0 1

☐ Face size range (width:100 - 500)PX
 0 1920

☐ Face size range (height:100 - 500)PX
 0 1920

☐ Pupil distance range(100 - 500)PX
 0 1920

☐ Yaw angle(0 - 90)°
 0 90

☐ Pitch angle(0 - 90)°
 0 90

☐ Roll angle(0 - 90)°
 0 90

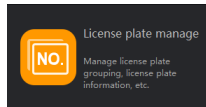
9 License Plate Recognition

9.1 License Plate Manage

The license plate library can add license plate library to identify the matching license plates and manage the vehicle entry and exit. Different levels of license plate face libraries are established according to different needs.

NOTE

This function only supports cameras with license plate recognition.



On the main menu page, click to view more detailed interface.

Figure 9-1 License plate manage interface

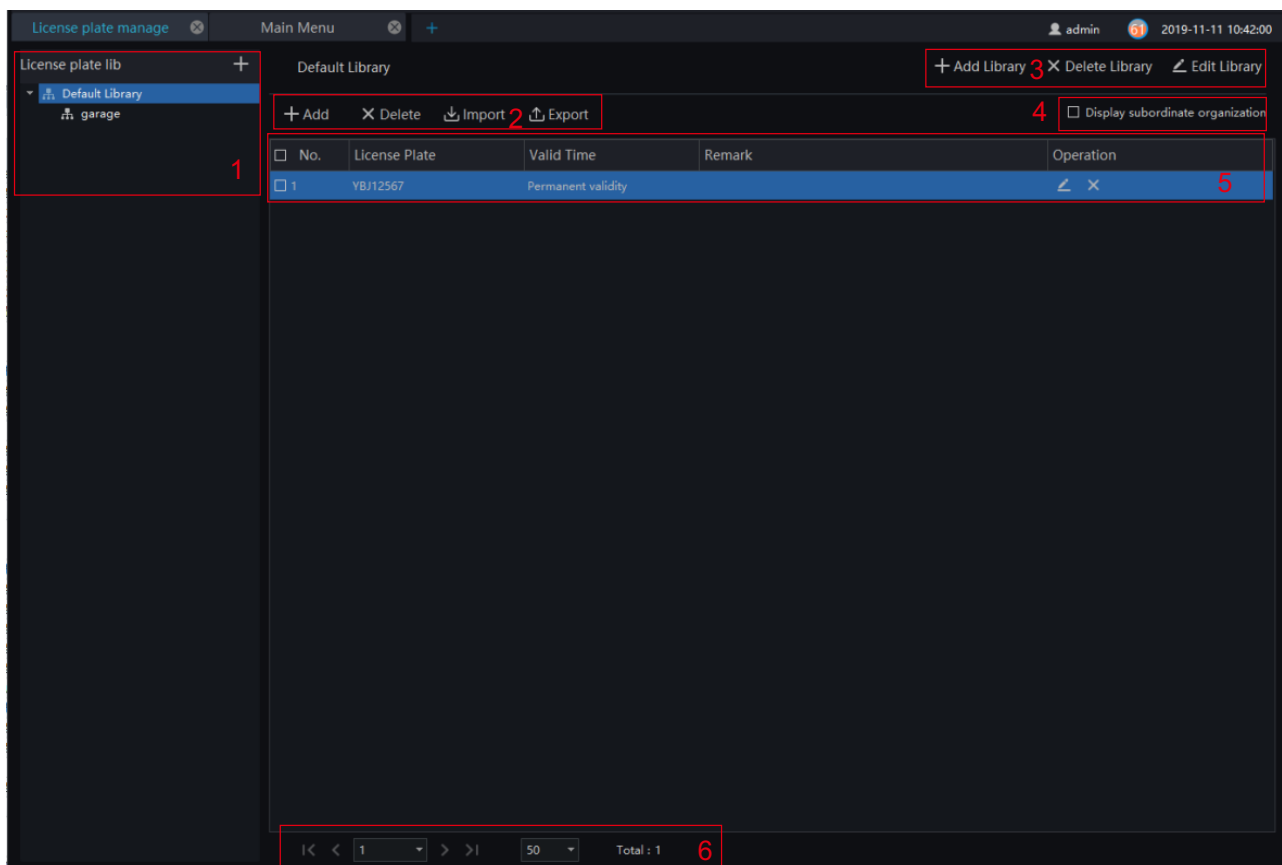


Table 9-1 Smart search

No.	Function	Description
1	License plate library	Click “add” to add the library of license plate. Show the libraries.
2	Operation of license	The basic operation of license plate.
3	Operation of library	The basic operation of license plate library.

No.	Function	Description
4	Display subordinate organization	Show subordinate organization: Check the license plate information that can display the subordinate organization.
5	Display information	The basic information of the license plate library is displayed.
6	Page information	Page number, number of pages per page, total Switch to next page

9.1.1 Add license Plate Library

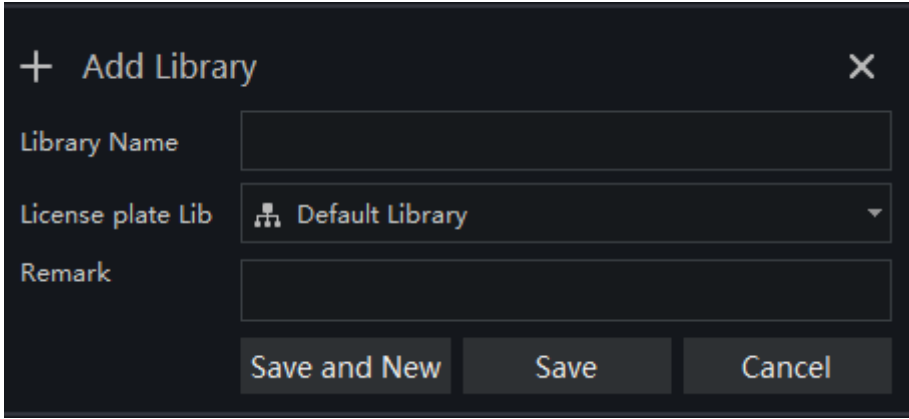
Procedure:

Step 1 Choose “license Plate Library” at archives library interface.

Step 2 Click  to add license plate library.

Step 3 Input library name, remark, choose library , as shown in Figure 9-2.

Figure 9-2 Add license plate library



Step 4 Click “Save” to save the parameters.

9.1.2 Add License Plate Information

Procedure:

Step 1 Select a face library

Step 2 Click  Add to add new license plate information.

Step 3 Input the information as shown in Figure 9-3, choose the picture from the local client.

Figure 9-3 Add license plate

Step 4 Click “ Save ”, will show “Add license plate succeed”.

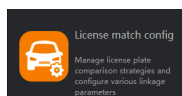
The operations such as import, export, delete license plate library are same as face library, please refer to *chapter 8.2*.

9.2 License Plate Configuration

The license plate recognition function camera is selected in the license plate comparison configuration, so that the vehicle identify can call the configuration.

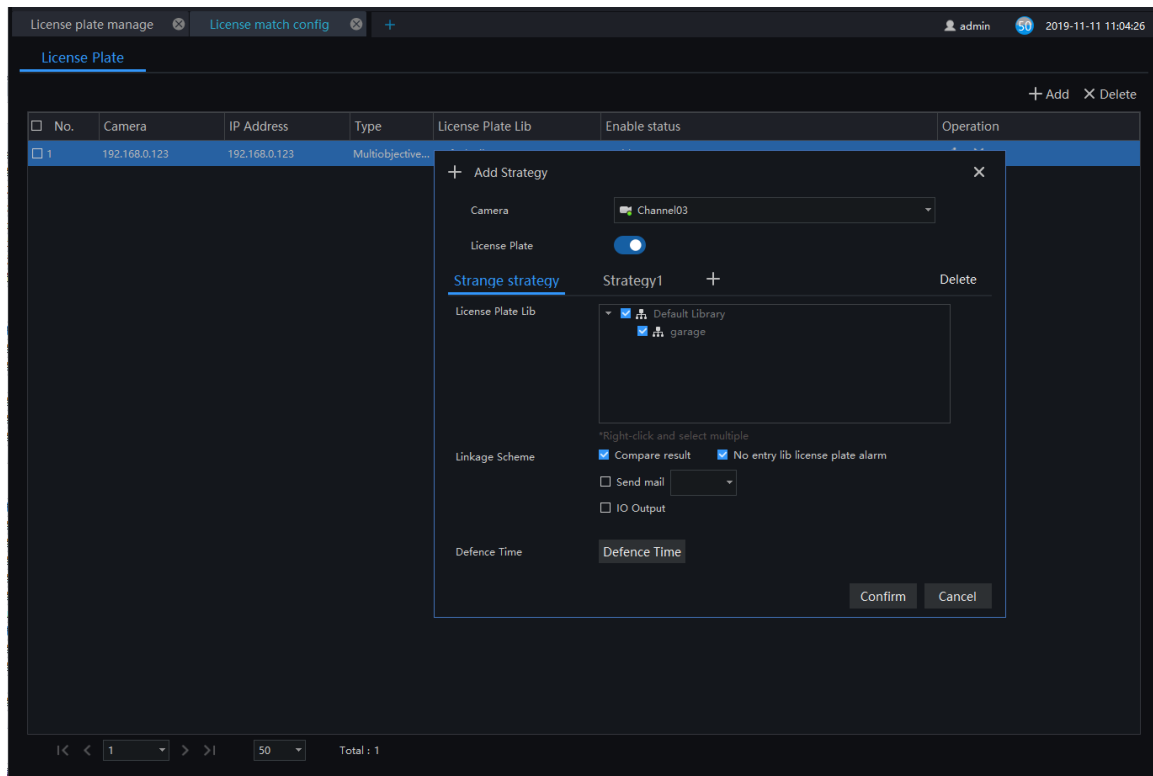
NOTE

This function only supports cameras with license plate recognition.



On the main menu page, click to view more detailed interface.

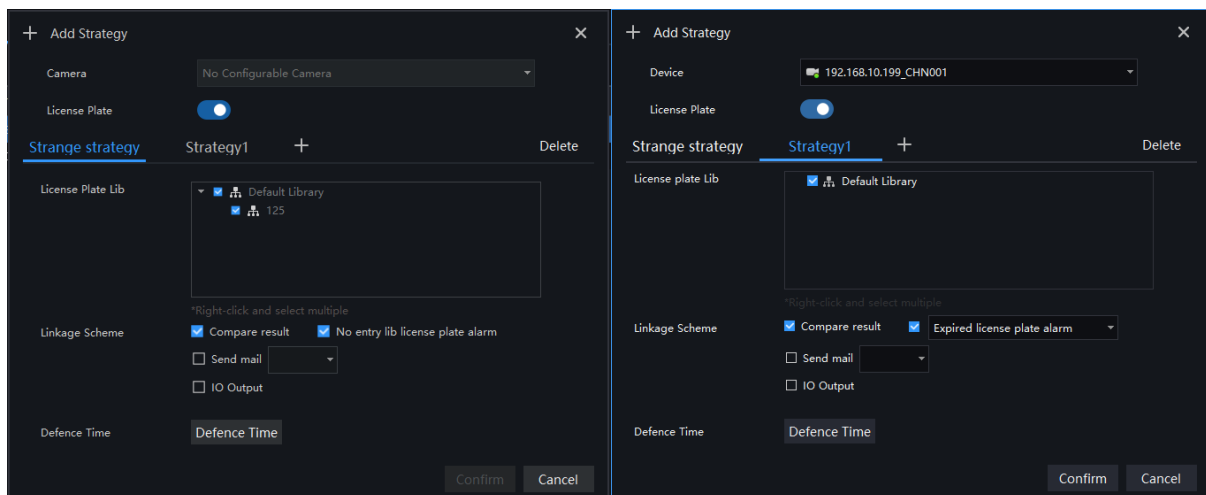
Figure 9-4 License plate configuration



Procedure:

- Step 1 Choose “License Plate” at strategy configuration interface.
- Step 2 Click “Add” to get into new add strategy, as shown in figure.

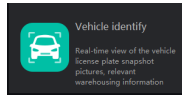
Figure 9-5 Add strategy



- Step 3 Choose camera and license plate library
- Step 4 Set up Similarity and activate Stranger mode.
- Step 5 Click “Confirm” to save the settings.

9.3 Vehicle Identify

At this page, you can view the snapshots of vehicle, the snapshot will compare with license plate library.



On the main menu page, click view the detailed interface, as shown in Figure 9-6.

NOTE

This function only supports the cameras with license plate detection.

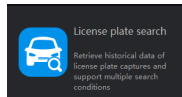
Figure 9-6 Vehicle identity interface

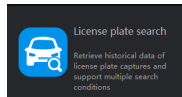
No.	Camera	Time	License Pl	License plate image	License Plate Lib	Valid Time	Operation
29362	192.168.0.123	2019-11-11 10:2...	J2		Unidentified	---	
29360	192.168.0.123	2019-11-11 10:2...	J2		Unidentified	---	
29359	192.168.0.123	2019-11-11 10:2...	J2		Unidentified	---	
29358	192.168.0.123	2019-11-11 10:2...	48		Unidentified	---	
29356	192.168.0.123	2019-11-11 10:2...	P0		Unidentified	---	

Procedure:

- Step 1 The license plate recognition camera will be displayed directly in the list area.
- Step 2 Click on the working camera.
- Step 3 The captured license plate will be displayed in the area below the live video.
- Step 4 The associated license plate information is displayed on the right interface.

9.4 License Plate Search



On the main menu page, click  view the detailed interface, as shown in Figure 9-7.

Procedure:

Step 1 Set time of searching picture and the capture devices.

Step 2 Click “Search”, the searching results will display .

Step 3 Click the images in the result, displaying the details.

Figure 9-7 Intelligent search

No.	Camera	Time	License Pla	License plate image	License Plate	Valid Time	Operation
1	192.168.0.123_CHN001	2019-11-11 1...	G9		Unidentified	---	
2	192.168.0.123_CHN001	2019-11-11 1...	AG9		Unidentified	---	
3	192.168.0.123_CHN001	2019-11-11 1...	G9		Unidentified	---	
4	192.168.0.123_CHN001	2019-11-11 1...	G9		Unidentified	---	
5	192.168.0.123_CHN001	2019-11-11 1...	J2		Unidentified	---	
6	192.168.0.123_CHN001	2019-11-11 1...	J2		Unidentified	---	
7	192.168.0.123_CHN001	2019-11-11 1...	J2		Unidentified	---	
8	192.168.0.123_CHN001	2019-11-11 1...	PO		Unidentified	---	
9	192.168.0.123_CHN001	2019-11-11 1...	48		Unidentified	---	
10	192.168.0.123_CHN001	2019-11-11 1...	PO		Unidentified	---	
11	192.168.0.123_CHN001	2019-11-11 1...	PO		Unidentified	---	
12	192.168.0.123_CHN001	2019-11-11 1...	PO		Unidentified	---	
13	192.168.0.123_CHN001	2019-11-11 1...	PO		Unidentified	---	
14	192.168.0.123_CHN001	2019-11-11 1...	PO		Unidentified	---	
15	192.168.0.123_CHN001	2019-11-11 1...	33		Unidentified	---	
16	192.168.0.123_CHN001	2019-11-11 1...	33		Unidentified	---	
17	192.168.0.123_CHN001	2019-11-11 1...	33		Unidentified	---	
18	192.168.0.123_CHN001	2019-11-11 1...	33		Unidentified	---	
19	192.168.0.123_CHN001	2019-11-11 1...	33		Unidentified	---	
20	192.168.0.123_CHN001	2019-11-11 1...	33		Unidentified	---	
21	192.168.0.123_CHN001	2019-11-11 1...	33		Unidentified	---	
22	192.168.0.123_CHN001	2019-11-11 1...	33		Unidentified	---	
23	192.168.0.123_CHN001	2019-11-11 1...	G9		Unidentified	---	
24	192.168.0.123_CHN001	2019-11-11 1...	G9		Unidentified	---	

Step 4 Tick more than two pictures, and the pictures are from two or more cameras.

Step 5 Click “Track” to form the track of car.

Step 6 Click the operations to play the record, image and add the license to library.

10 Multi-target Recognition

10.1 AI Recognition

At AI recognition interface, user can snapshot the vehicle, car, person, face and biking by AI cameras.

NOTE

This function only supports AI cameras and vehicle cameras.

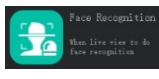
On the main menu page, click  view the detailed interface, as shown in Figure 10-1.

Figure 10-1 AI recognition

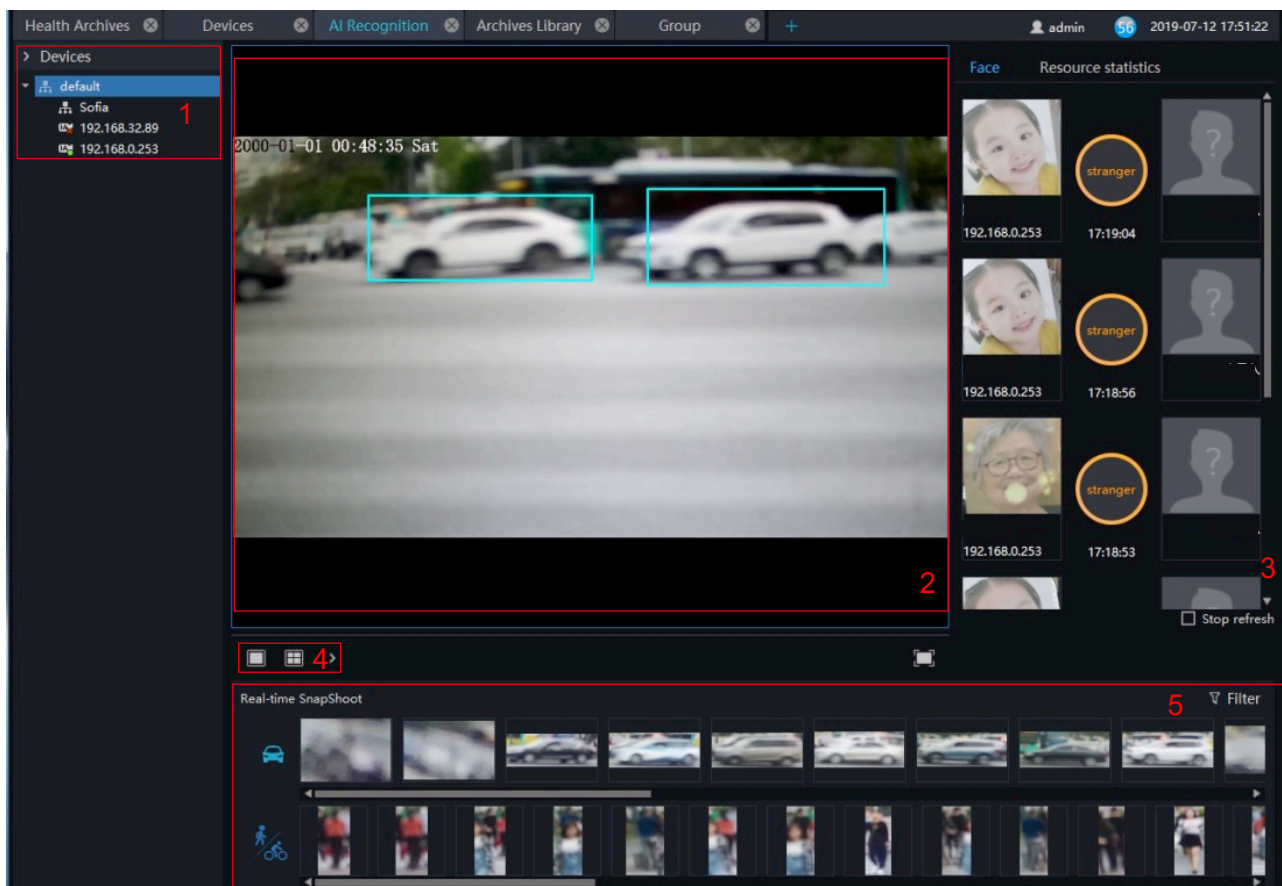


Table 10-1 AI recognition

No.	Function	Instruction
1	Device list	The AI cameras will show at this area.
2	Live video	Show live video

No.	Function	Instruction
3	Face/ Resource statistics	The snapshot of face will compare with library, and results show here. Count the vehicles and face/ride bike
4	Switch windows	Switch live video windows format.
5	Real-time snapshot	the results display area, which will show real-time snapshot of the license plate, face, and bicycle. You can also set the filter conditions.

Figure 10-2 Filter

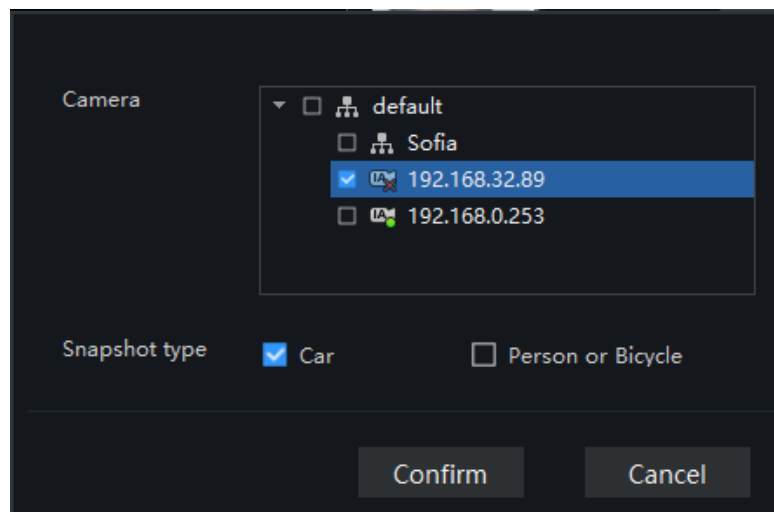


Figure 10-3 Resource statistics

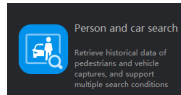


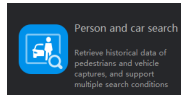
10.2 Person and Car Search

At AI recognition interface, user can snapshot the vehicle, car, person, face and biking by AI cameras.

NOTE

This function only supports AI cameras.

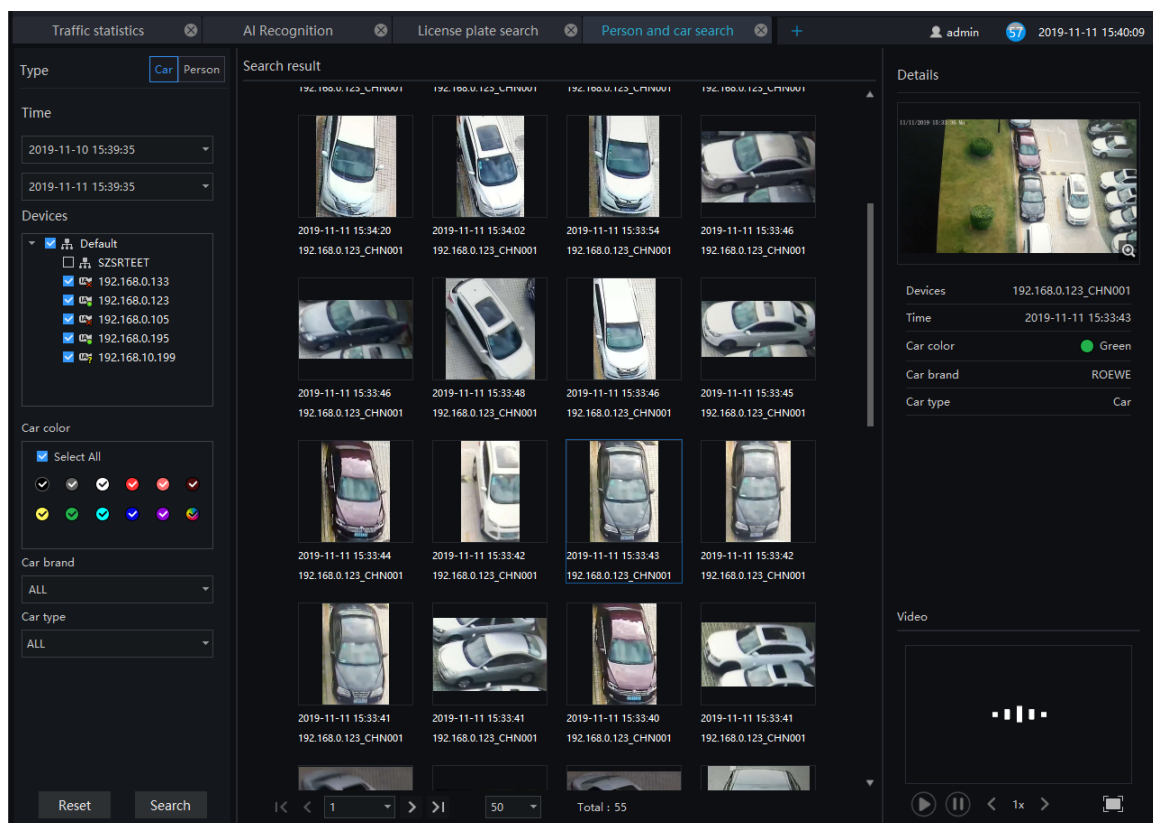


On the main menu page, click  view the detailed interface, as shown in Figure 10-4.

Procedure:

- Step 1 Choose the type, car or person.
- Step 2 Set time of searching picture and the capture devices.
- Step 3 Set license plate, it is optional.
- Step 4 Click the images in the result, displaying the details.

Figure 10-4 Person and car search



10.3 Traffic Statistics

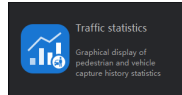
On the traffic statistics page, you can query the group's traffics flow (statistics of people and vehicles under an organizational structure) and devices traffic (the traffic of people on a certain day), and count the number of vehicles and pedestrians at a specific time.



NOTE

This function only supports AI cameras.

Choose month, day, or hour to count.



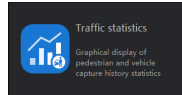
On the main menu page, click  view the detailed interface, as shown in Figure 10-5.

Figure 10-5 Traffic statistics

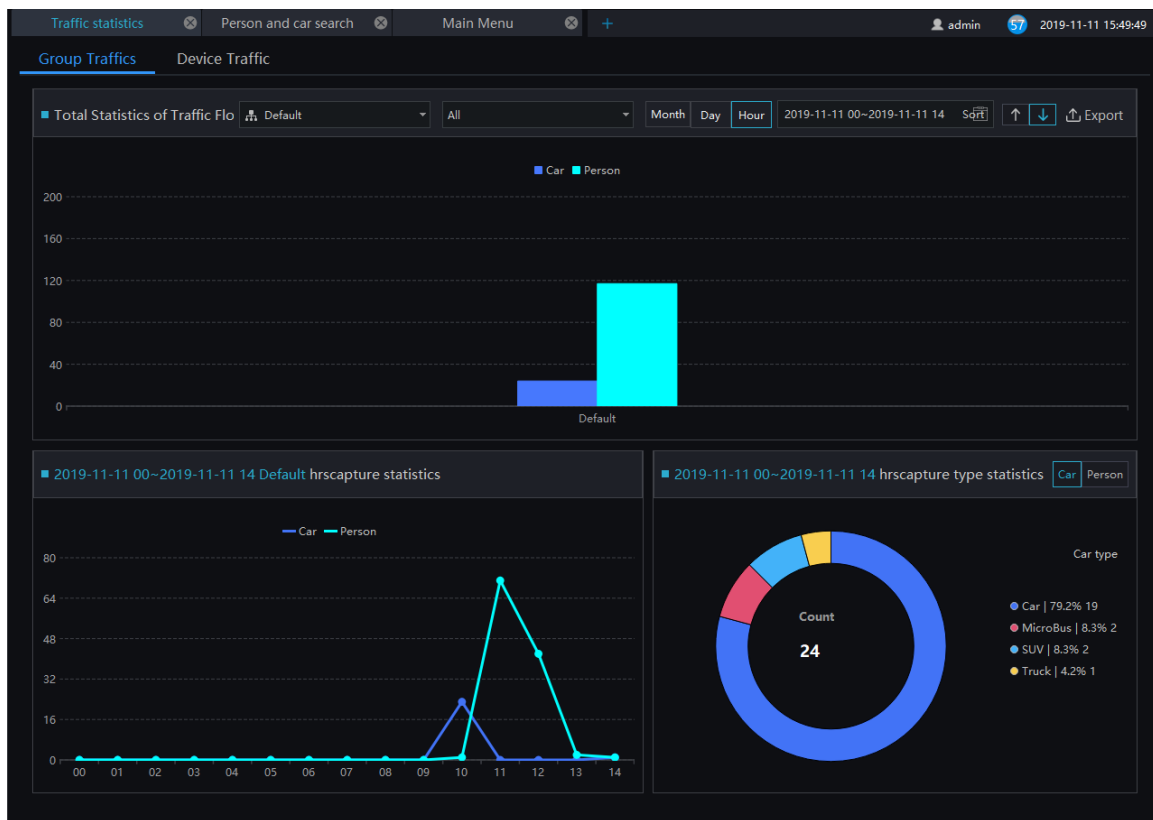
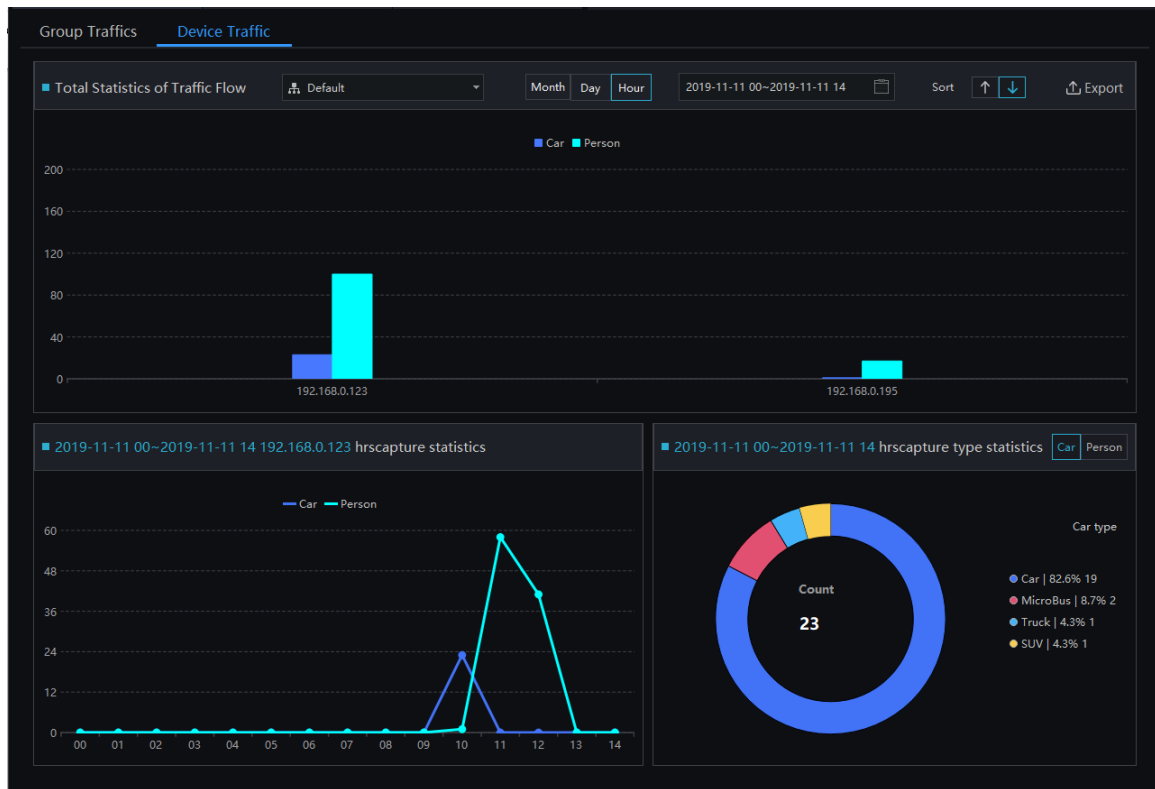


Figure 10-6 Device traffic



11 Attendance

11.1 Attendance Configuration

Attendance configuration has attendance group management, schedule management, attendance settings.

Figure 11-1 Attendance configuration

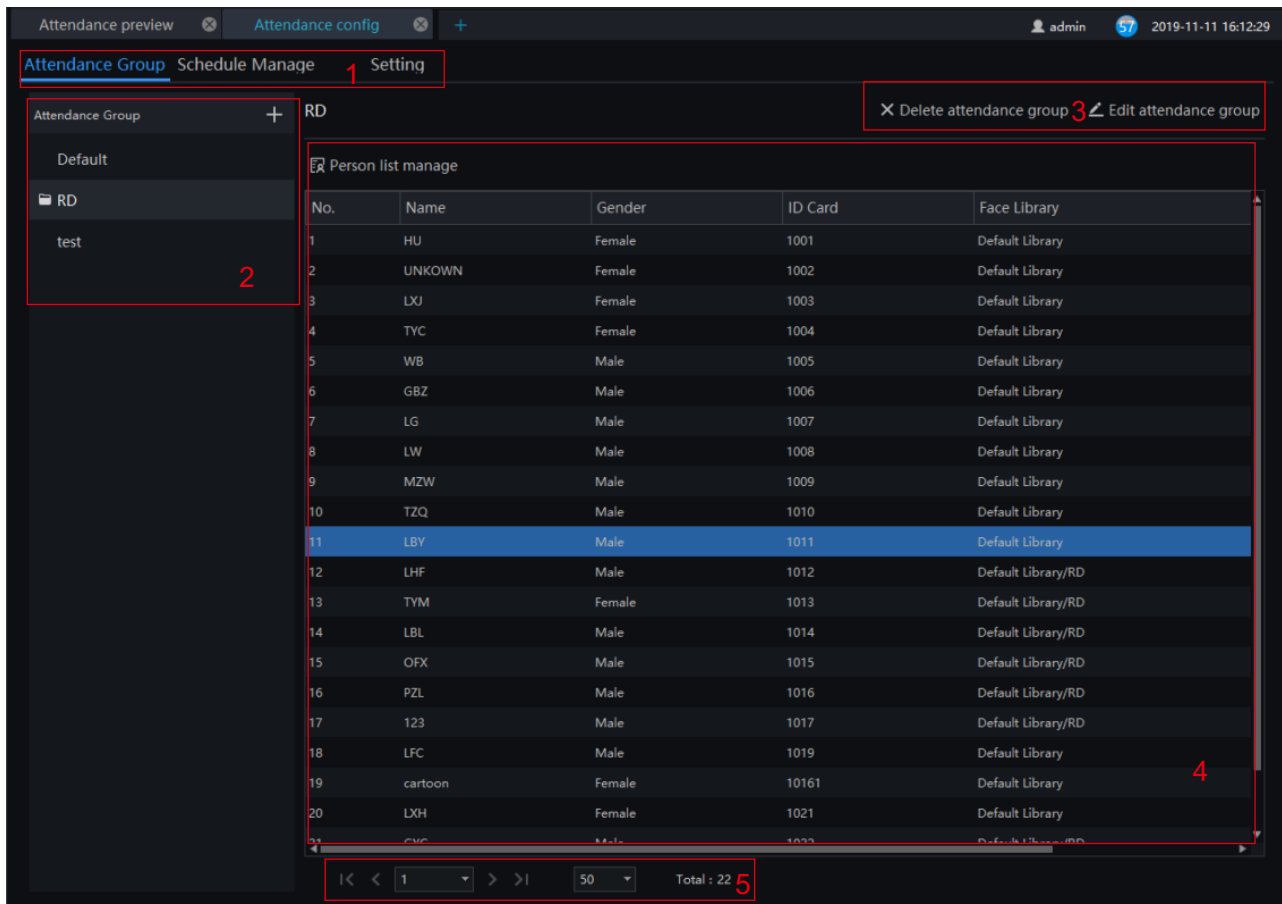


Table 11-1 Attendance

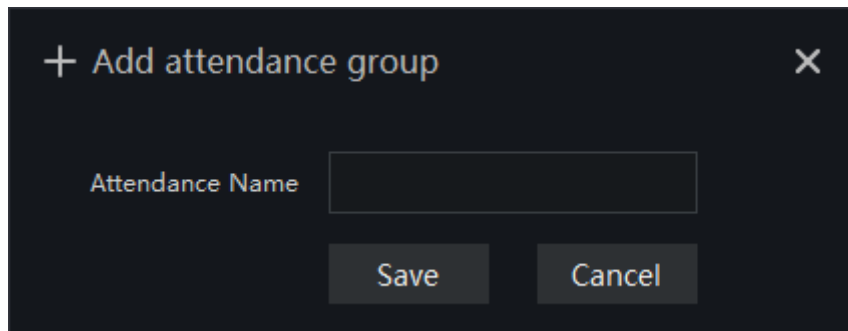
No.	Function	Description
1	Guide of attendance	Attendance group, schedule manage, attendance setting.
2	Group	Show the attendance group.
3	Basic operation	Edit or delete the attendance group.
4	Person list manage	Basic information of group.
5	Interface display	Show the current page of the person, and the page displays the number of alarms, switch to next page to show alarm information.

11.1.1 Attendance Group

Procedure:

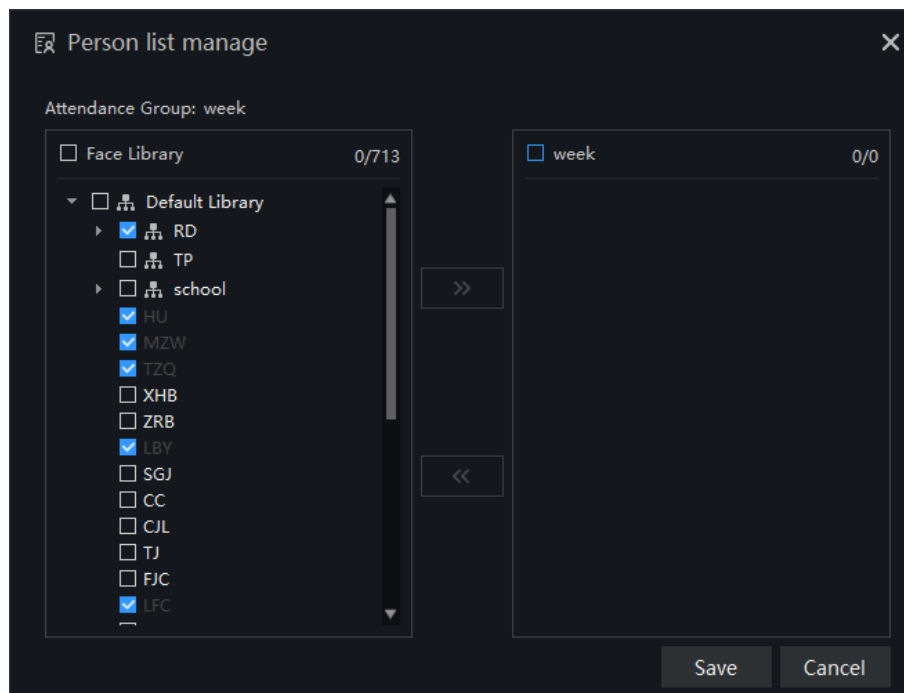
Step 1 Click “+ ” to add attendance group, input the name of group.

Figure 11-2 Add attendance group



Step 2 Click “person list manage” to add person to new group, as shown in Figure 11-3.

Figure 11-3 Person list manage



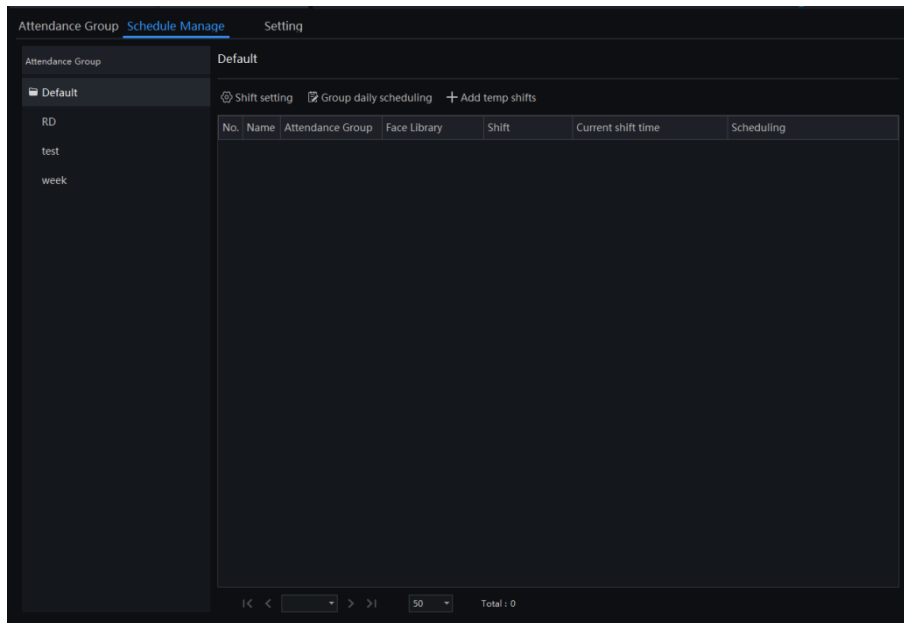
Step 3 Tick the staff of face library to attendance group.

Step 4 Click “Save” to save the settings.

Step 5 Click “Edit attendance group” to modify.

11.1.2 Schdule Manage

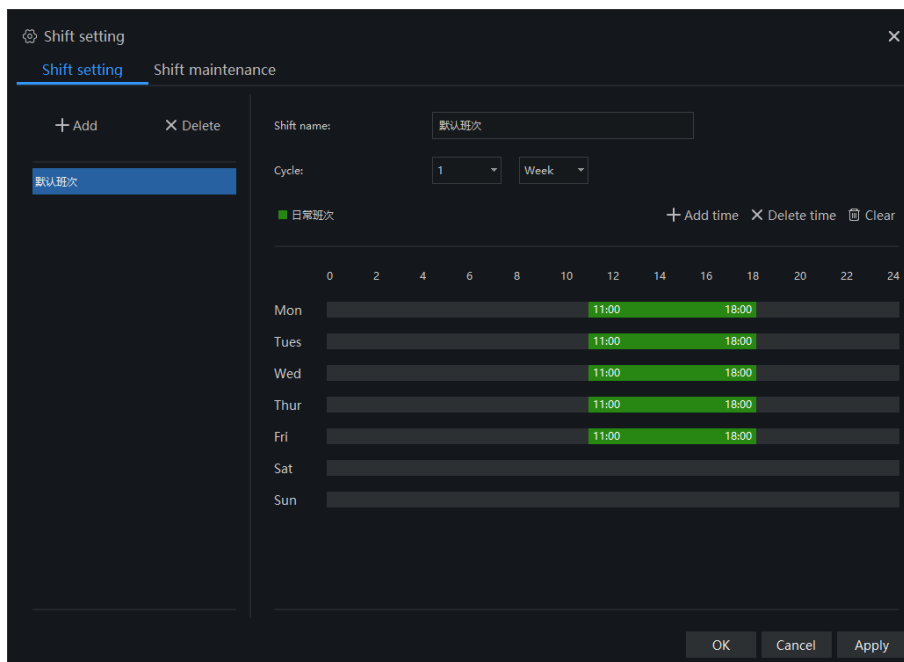
Figure 11-4 Schedule manage



Procedure:

Step 1 Click “Shift setting” to enter the interface, as shown in Figure 11-5.

Figure 11-5 Shift setting

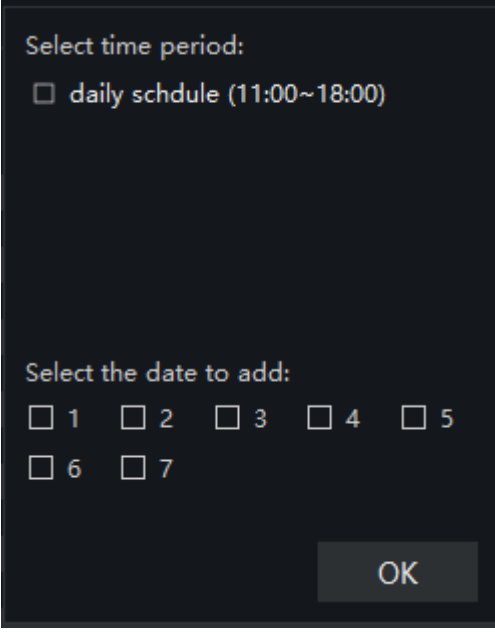


Step 2 Click “Add” to add new schedule, click “Delete” to delete the schedule.

Step 3 Set the name and cycle of shift schedule.

Step 4 Click “Add time” as shown in Figure 11-6, or “Delete time” to modify the time.

Figure 11-6 Add time



Select time period:

☐ daily schdule (11:00~18:00)

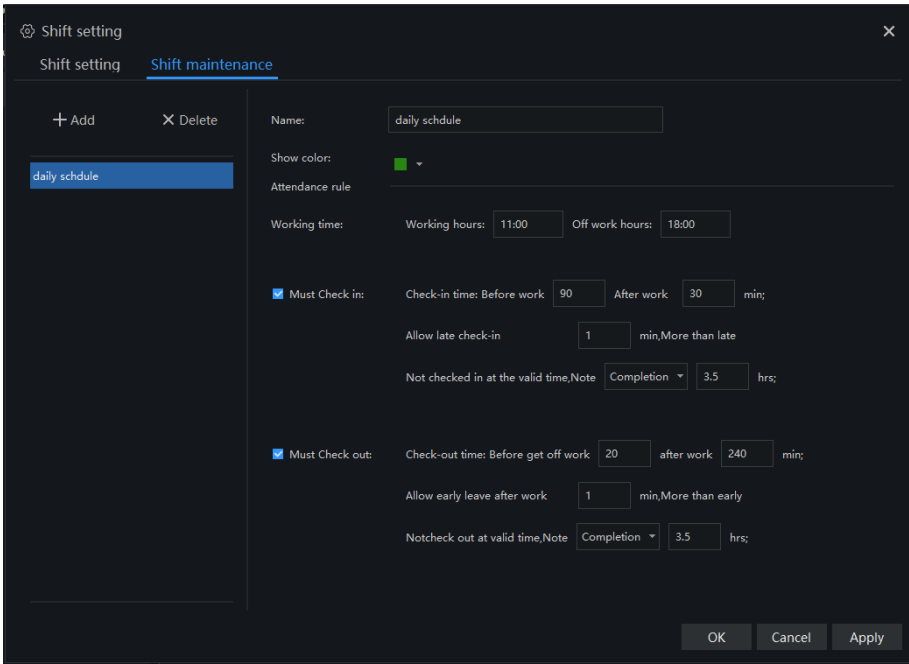
Select the date to add:

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ 6 ☐ 7

OK

Step 5 Choose “Shift maintenance” to maintain the shift, as shown in Figure 11-7

Figure 11-7 Shift maintenance



Shift setting

Shift setting Shift maintenance

+ Add X Delete

daily schdule

Name: daily schdule

Show color: ■

Attendance rule

Working time: Working hours: 11:00 Off work hours: 18:00

☒ Must Check in: Check-in time: Before work 90 After work 30 min;

Allow late check-in 1 min, More than late

Not checked in at the valid time, Note Completion 3.5 hrs;

☒ Must Check out: Check-out time: Before get off work 20 after work 240 min;

Allow early leave after work 1 min, More than early

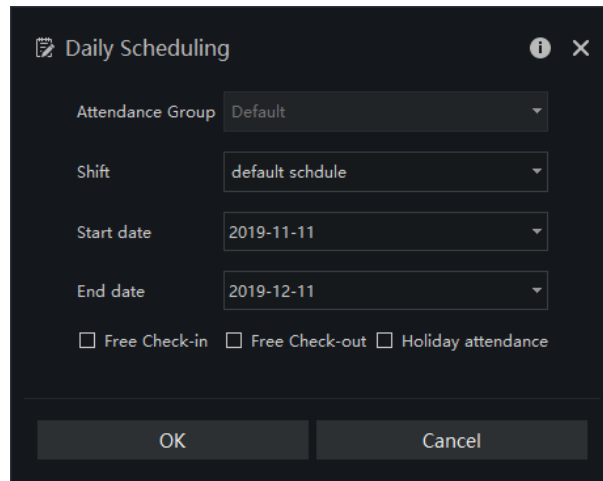
Notcheck out at valid time, Note Completion 3.5 hrs;

OK Cancel Apply

Step 6 Click “OK” to save the shift setting.

Step 7 Click “Group daily schedule” at schedule manage, as shown in Figure 11-8.

Figure 11-8 Daily scheduling



Daily Scheduling

Attendance Group: Default

Shift: default schedule

Start date: 2019-11-11

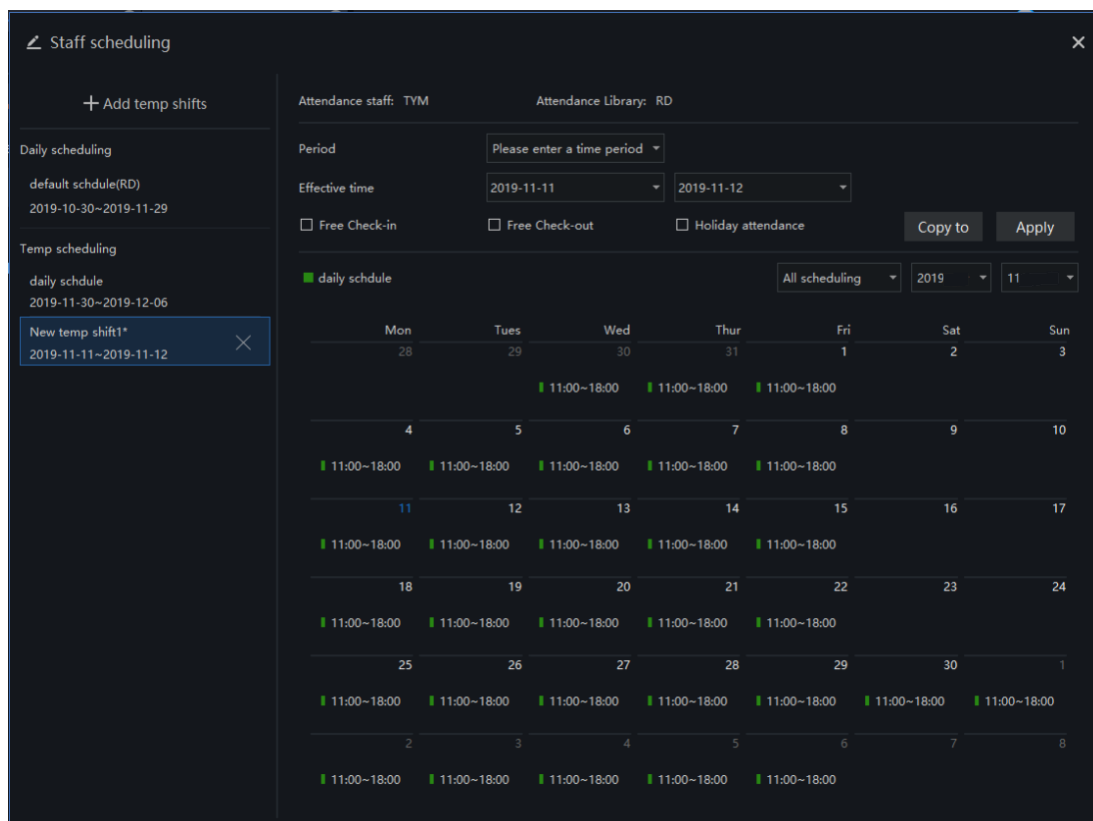
End date: 2019-12-11

☐ Free Check-in ☐ Free Check-out ☐ Holiday attendance

OK Cancel

Step 8 Choose one staff and click “Add temp shifts ” at schedule manage, as shown in

Figure 11-9 Add temp shifts



Staff scheduling

Attendance staff: TYM Attendance Library: RD

Period: Please enter a time period

Effective time: 2019-11-11 2019-11-12

☐ Free Check-in ☐ Free Check-out ☐ Holiday attendance

Copy to Apply

daily schedule All scheduling 2019 11

Mon	Tues	Wed	Thur	Fri	Sat	Sun
28	29	30	31	1	2	3
	11:00~18:00	11:00~18:00	11:00~18:00			
4	5	6	7	8	9	10
11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00		
11	12	13	14	15	16	17
11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00		
18	19	20	21	22	23	24
11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00		
25	26	27	28	29	30	1
11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00
2	3	4	5	6	7	8
11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00	11:00~18:00		

Step 9 Set the time and click “ Apply” to save the settings.

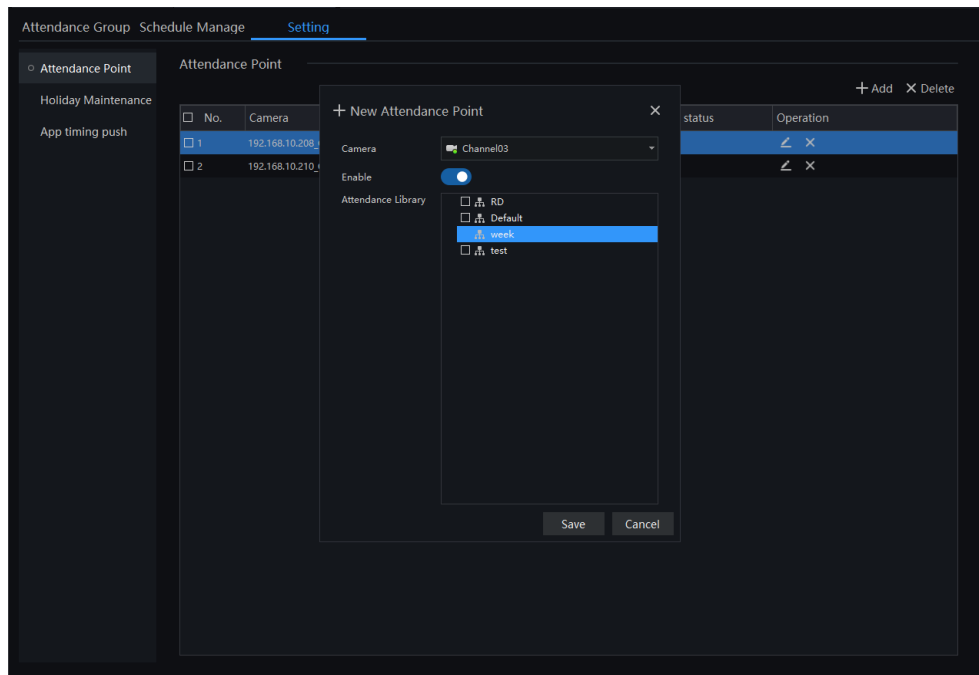
11.1.3 Attendance Setting

11.1.3.1 Attendance Point

Procedure:

Step 1 Choose “Attendance Point” at setting interface, click “Add” to add a new point, as shown in Figure 11-10.

Figure 11-10 Attendance point



Step 2 Choose the camera, enable the function.

Step 3 Tick the attendance library.

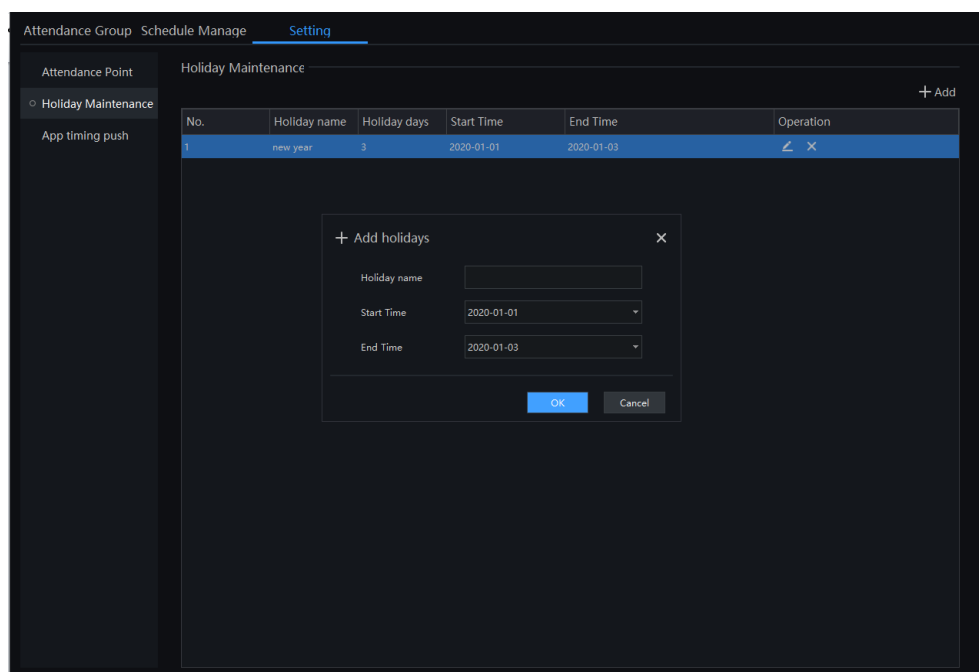
Step 4 Click “ Save” to save the settings.

11.1.3.2 Holiday Maintenance

Procedure:

Step 1 Choose “Holiday Maintenance” at setting interface, click “Add” to add a new one, as shown in Figure 11-11.

Figure 11-11 Holiday maintenance



Step 2 Input the holiday name.

Step 3 Set the start time and end time.

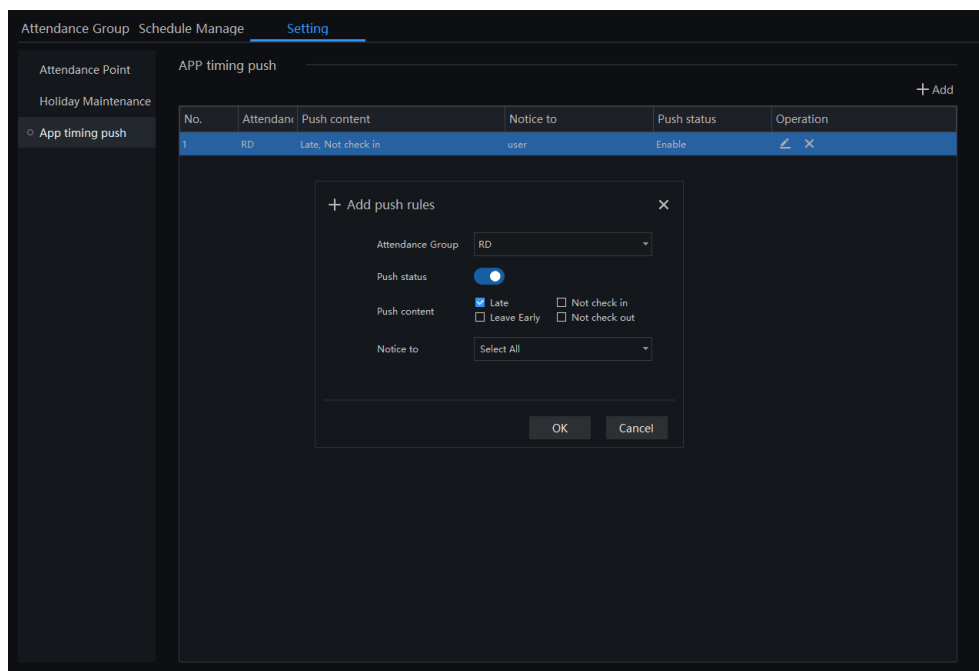
Step 4 Click “OK” to save the settings.

11.1.3.3 App Timing Push

Procedure:

Step 1 Choose “App timing push” at setting interface, click “Add” to add a new one, as shown in Figure 11-12.

Figure 11-12 App timing push



Step 2 Choose the attendance group, enable “Push Status”.

Step 3 Tick the push contents, and select notice to send.

Step 4 Click “OK” to save the settings.

11.2 Attendance Preview

At this page, you can manage employee attendance through the face detection cameras.

NOTE

This function only supports face detection cameras.

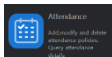
On the main menu page, click  to view the detailed interface, as shown in Figure 11-13.

Figure 11-13 Attendance interface

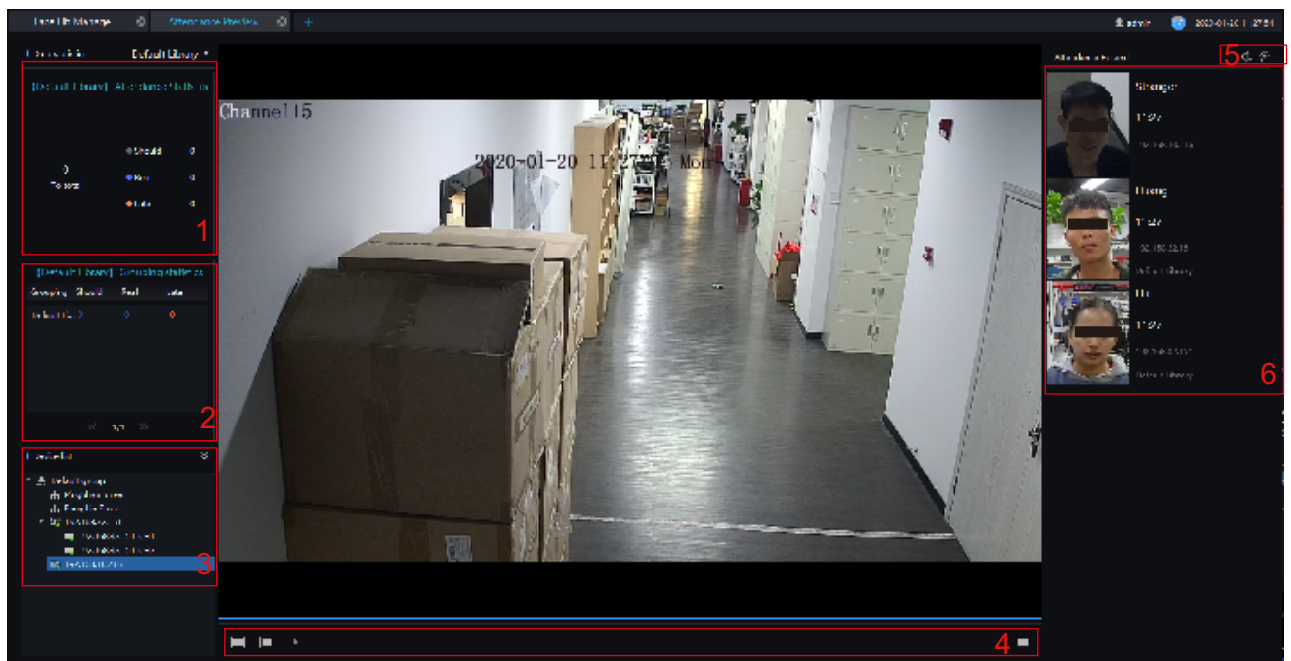


Table 11-1 Attendance

No.	Function	Description
1	Attendance statistics	Show the number of person who is due, real, late
2	Group statistics	Show the statistics of different groups.
3	Devices list	The device of face detection. Show the device and group.
4	Video layout/ Full screen	Switch layout mode. Click to enter full screen.
5	Audio/Setting	Open or close audio/set card parameters.
6	Snapshot of attendance	Basic information of snapshot.

Procedure:

Step 1 Select a display device to play live video.

Step 2 The personnel information captured by the device when the staff pass the attendance point

Step 3 Click the Settings icon to set the attendance related parameters.

Figure 11-14 Card parameters of library

The figure displays two side-by-side screenshots of the InVid software settings interface for 'Card parameters of library'. Both windows have a dark theme and a close button (X) in the top right corner.

Left Window (Attendance Library tab selected):

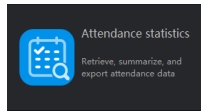
- Card Size:** Medium (dropdown menu)
- Stranger:** On (toggle switch)
- Attendance Library:** Selected tab
- Stranger:** Sub-tab
- Period:** Attendance time (dropdown menu)
- Sign In:**
 - ☒ Name ☐ Time
 - ☒ Punch successful (text input)
- Sign Out:**
 - ☒ Name ☐ Time
 - ☒ Punch successful (text input)
- Other:**
 - ☒ Name ☐ Time
 - ☒ hello (text input)
- Buttons:** OK, Cancel

Right Window (Stranger tab selected):

- Card Size:** Medium (dropdown menu)
- Stranger:** On (toggle switch)
- Attendance Library:** Tab
- Stranger:** Selected sub-tab
- Period:** All Day (dropdown menu)
- Voice:**
 - ☐ welcome (text input)
- Buttons:** OK, Cancel

11.3 Attendance Statistics

In the attendance statistics interface, users can set the query conditions to quickly find relevant statistics.



On the main menu page, click to view the detailed interface, as shown in Figure 11-15.

Figure 11-15 Attendance data

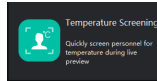
Number	Name	Department	Should	Real	Completion	Late	Leave Early	Late And Leave Early
1001	HU	RD	5	0	5	0	0	0
1002	UNKOWN	RD	5	0	5	0	0	0
1003	LXJ	RD	5	0	5	0	0	0
1004	TYC	RD	5	3	2	1	0	0
1005	WB	RD	5	0	5	0	0	0
1006	GBZ	RD	5	0	5	0	0	0
1007	LG	RD	5	0	5	0	0	0
1008	LW	RD	5	0	5	0	0	0
1009	MZW	RD	5	0	5	0	0	0
1010	TZQ	RD	5	0	5	0	0	0
1011	LBY	RD	5	0	5	0	0	0
1012	LHF	RD	5	0	5	0	0	0
1013	TYM	RD	5	0	5	0	0	0
1014	LBL	RD	5	0	5	0	0	0
1015	OFX	RD	5	0	5	0	0	0
1016	PZL	RD	5	0	5	0	0	0
1017	123	RD	5	0	5	0	0	0
1019	LFC	RD	5	0	5	0	0	0
10161	cartoon	RD	5	0	5	0	0	0
1021	LXH	RD	5	0	5	0	0	0
1022	GYC	RD	5	2	3	0	0	0
1023	LGY	RD	5	0	5	0	0	0

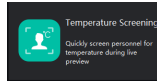
Procedure:

- Step 1 Select personnel of library.
- Step 2 Choose time or set customer time.
- Step 3 Select query type; click “Search” to query.
- Step 4 Result show in area 3.
- Step 5 Click “Export” to export the result.

12 Temperature Monitor

12.1 Temperature Screening



On the main menu page, Click  to view more detailed interface, as shown in Figure 12-1

Real-time temperature screening supports showing two interfaces simultaneously. The configuration of the two interfaces are independent of each other and can be configured separately, which facilitates channel management and is also suitable for multiple scenarios.



This function is only subject to body temperature cameras.

Figure 12-1 Temperature screening

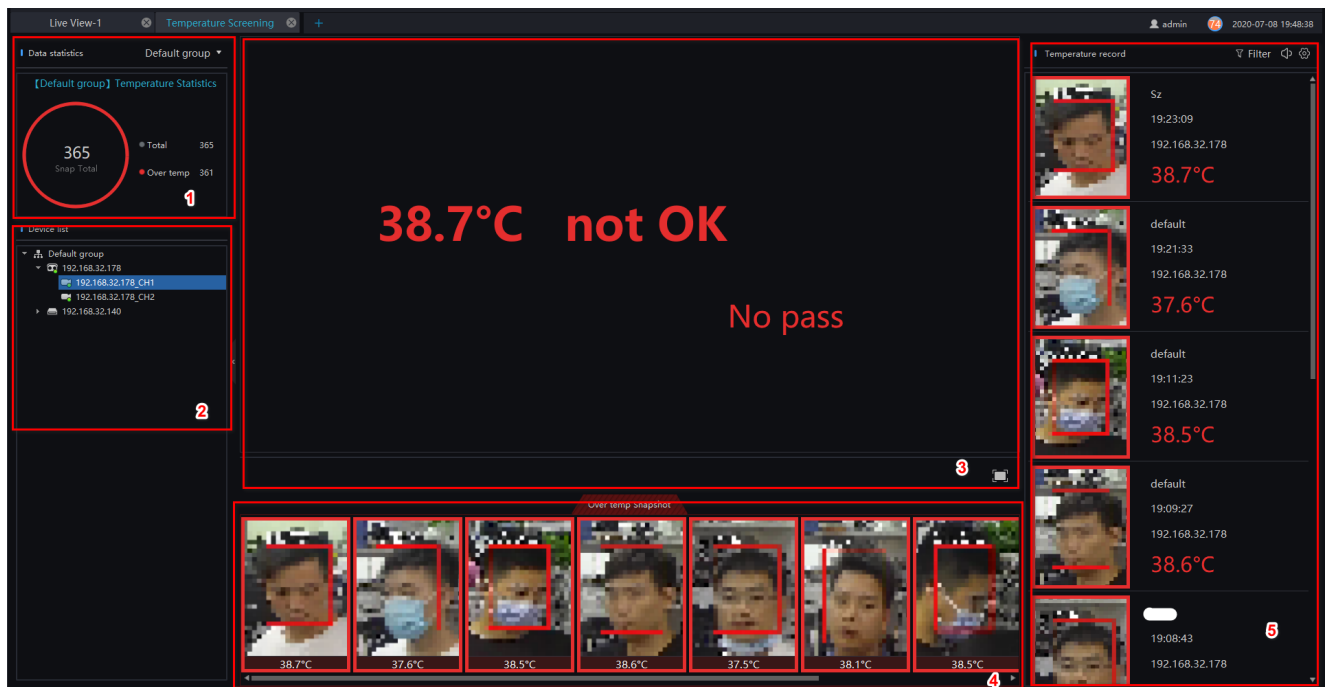


Table 12-1 Temperature screening

No.	Function	Description
1	Data statistics	Show the number of snapshot, over temperature.
2	Devices list	The device of body temperature. Show the status and group of devices.

No.	Function	Description
3	Live video	Show the live video, and choose split screens to show many cameras' live video. There are many layout can be choose, such as 1 screen, 2 screens, 4 screens, 6 screens, 8 screens, 9 screens, 16 screens, 25 screens, 32 screens, 64 screens, the default is 2 screens. The piracy mode need not spilt screen. Show the video at full screen, the snapshot will show by card, as shown in Figure 12-2. Click the bottom of full screen to exit the full screen.
4	Over temperature snapshot	The snapshots of over the normal temperature. Click  to delete all over temperature snapshot at the display area.
5	Temperature record	The information of snapshots, include temperature, device and time of snapshot. You can also set voice broadcast and full screen face card. Filter: tick the devices to check human face temperature.

Figure 12-2 Full screen face card



Figure 12-3 Display Setting

Image display mode: there are two modes, default and privacy mode.

Capture image processing and **screen display content** can be set at privacy mode. **Capture Image processing:** default picture, mosaic treatment, don't deal with it. **Screen display content:** show custom text, display live video.

Full screen layout: full-screen face card, full-screen.

Card size: middle, big, small.

Temperature measurement results: show body temperature, body temperature is not shown, display temperature measurement results.

Enable or disable stranger

Stranger display name: custom the showing name of stranger.

Registered personnel display name: name, not show, customer time.

Figure 12-4 Speech setting of stranger

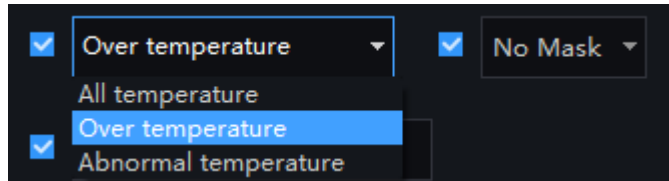
The screenshot shows the 'Setting' window with the 'Speech' tab selected. On the left, a list contains 'Stranger' (selected) and 'Registered_1'. The main area is for 'Stranger' settings. 'Broadcast content' has 'Stranger' checked. 'Time' is unchecked. 'Body temperature' and 'Normal Temperature' are checked. 'Over temp' is set to 'can not pass'. 'Abnormal temperature' is set to 'Abnormal temperature'. 'Mask' is unchecked, with 'No mask' selected in the dropdown. 'Customer Time' is unchecked, with 'hello vistor' in the dropdown. 'Broadcast time' is set to 'Time setting'. At the bottom are 'OK', 'Cancel', and 'Apply' buttons.

Figure 12-5 Speech Setting of registered

The screenshot shows the 'Setting' window with the 'Speech' tab selected. On the left, a list contains 'Stranger' and 'Registered_1' (selected). The main area is for 'Registered_1' settings. 'Face Library' has 'Check the subordinate at the same time' unchecked. The library list shows 'Default Library' checked, 'School' unchecked, and 'personnel library' unchecked. 'Broadcast content' has 'Name' checked. 'Time' is unchecked. 'Body temperature' and 'Normal Temperature' are checked. 'Over temp' is set to 'e temperature is too high to pass'. 'Abnormal temperature' is set to 'rmal, re measure the temperature'. 'Mask' is unchecked, with 'No mask' selected in the dropdown. 'Customer Time' is unchecked, with 'Hello' in the dropdown. At the bottom are 'OK', 'Cancel', and 'Apply' buttons.

Tick the speech content, such as stranger, time ,

The speech setting can tick temperature and no mask, as shown in Figure 12-6.



The display mode include default(user can view live video, snapshot human face, and show the temperatures.), face privacy mode, face privacy mode(video), body temperature mode.

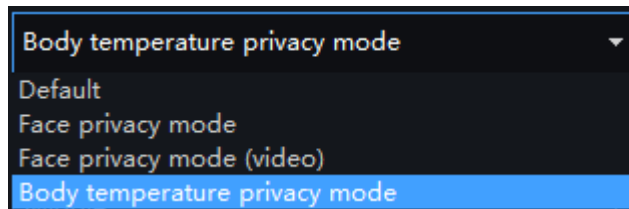


Figure 12-6 Body temperature privacy mode

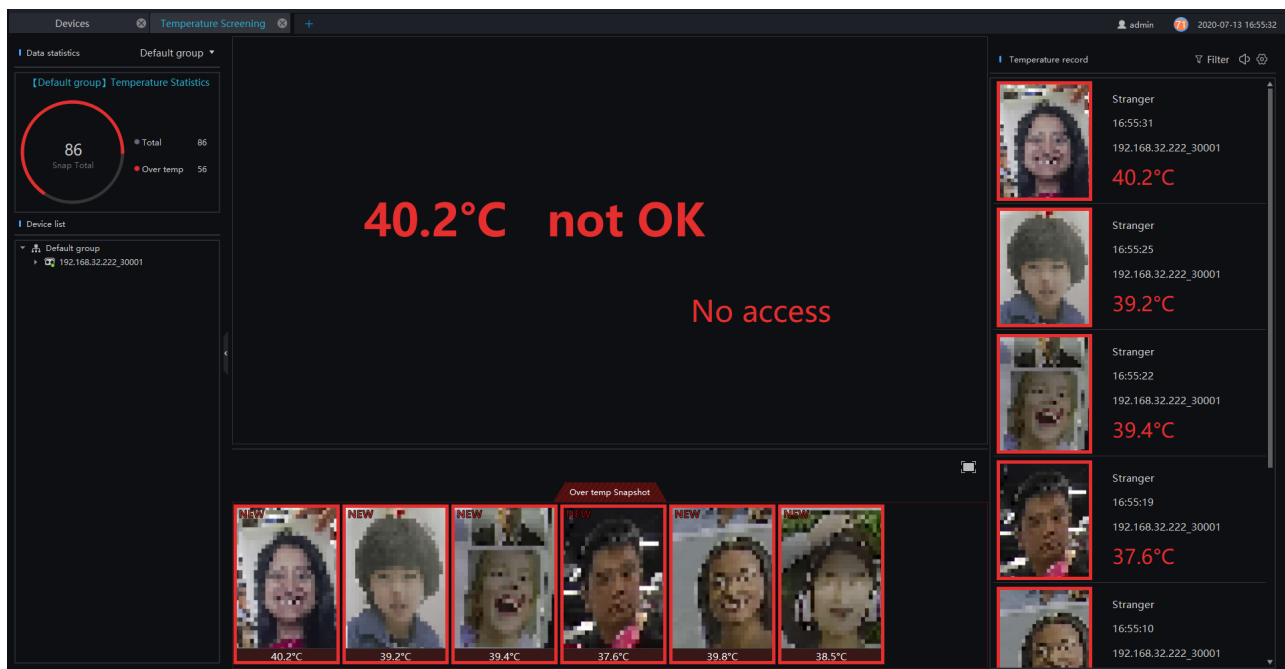


Figure 12-7 Face privacy mode

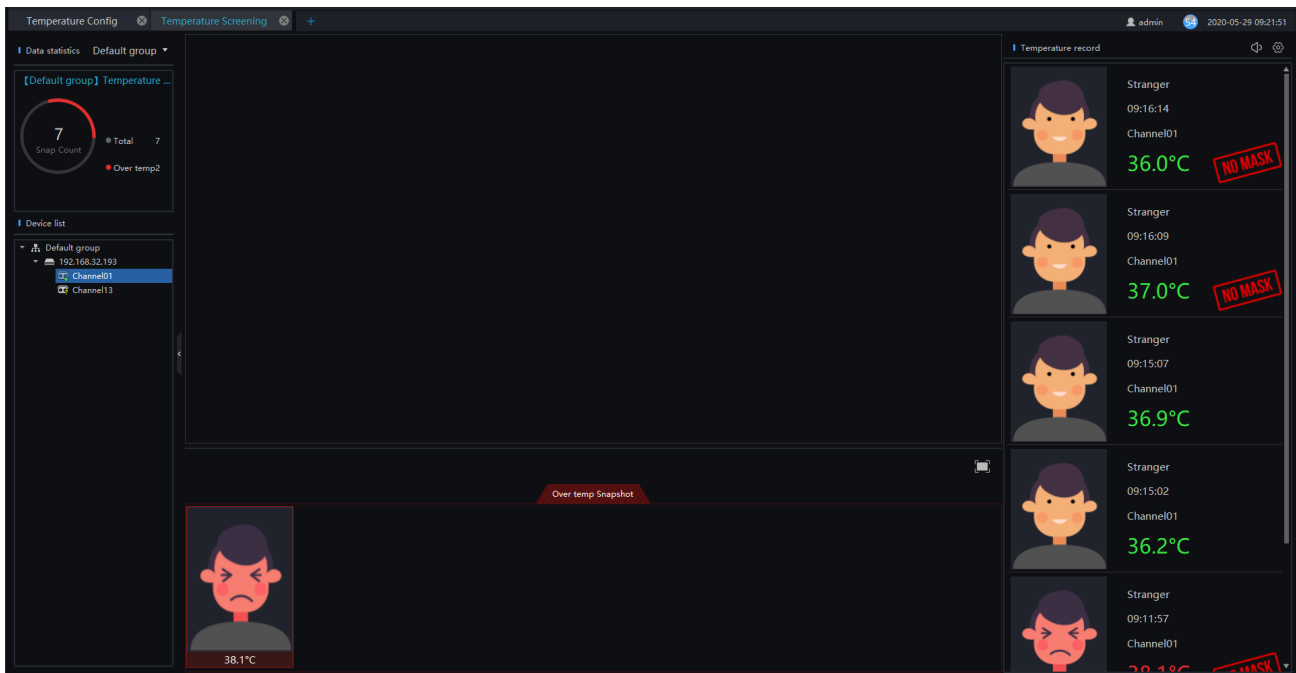
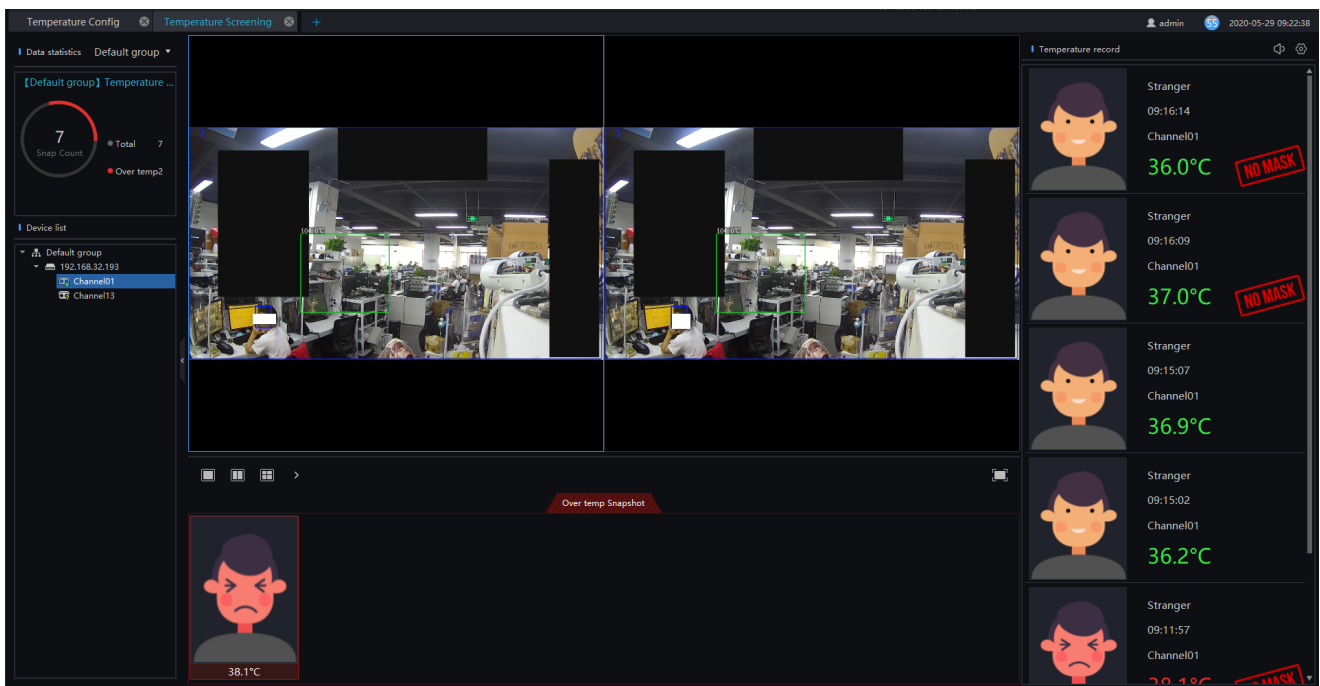


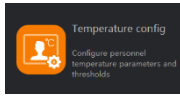
Figure 12-8 Face privacy mode (video)

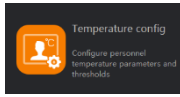


NOTE

The reminder of no mask is set at "Server > CMU > Setting" interface. Enable the mask recognition. If the function is disable, the  will not appear.

12.2 Temperature Configuration



On the main menu page, Click  to view more detailed interface, as shown in Figure 12-9.



This function is only subject to thermal cameras.

Procedure:

Step 1 Click “Temperature” to modify temperature configurations.

Step 2 Input the information of threshold, as shown in Figure 12-9.

Step 3 Click “Save” to save the settings.

Figure 12-9 Temperature

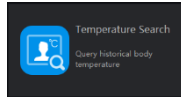


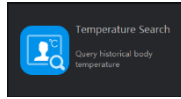
The abnormal temperature is lower than lower temp threshold or higher than over temp threshold.

Enable the abnormal temperature measurement, the measurement temperature will be alarmed when it is outside the threshold (below the low temperature threshold and above the high temperature threshold).

When the abnormal temperature measurement alarm is disable, the measured temperature will not be saved beyond the threshold

12.3 Temperature Search



On the main menu page, Click  to view more detailed interface, as shown in Figure 12-10.



This function is only subject to body temperature cameras.

Figure 12-10 Temperature search

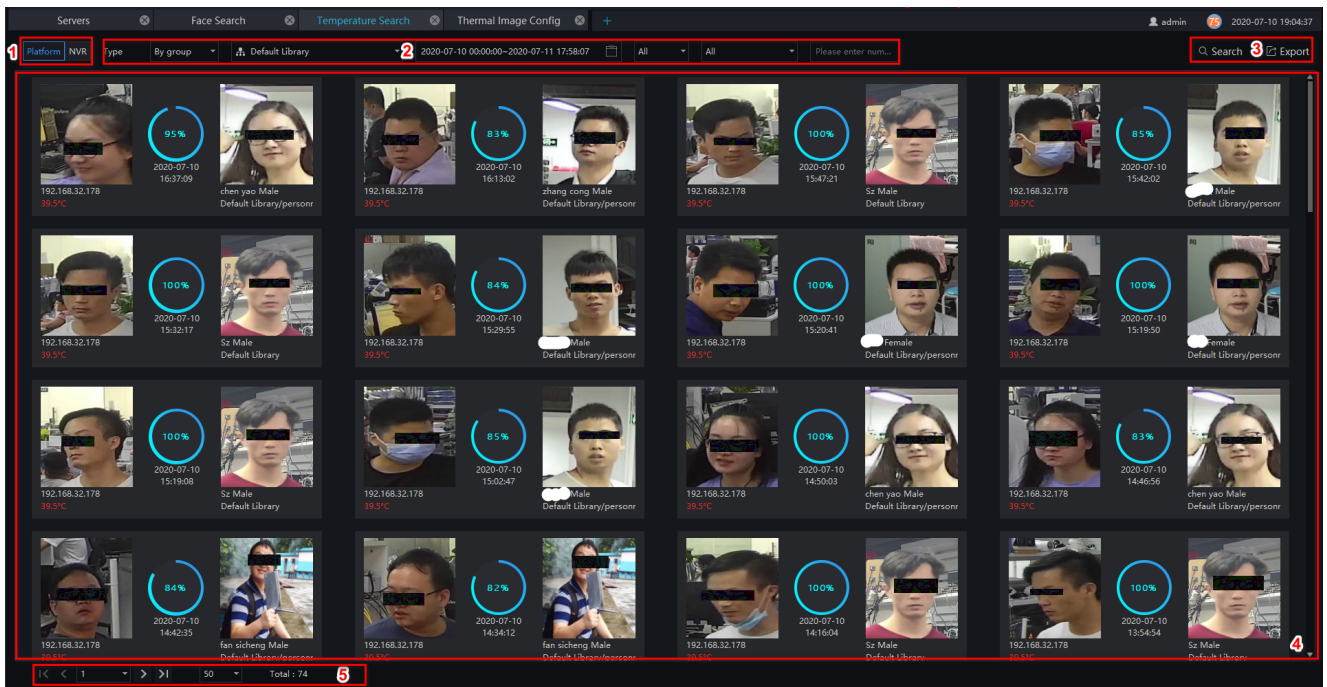


Table 12-1 Temperature search

No.	Function	Description
1	IPC/NVR_DVR	Choose the source of search, IPC or NVR_DVR
2	Condition of search	Set type(devices or channels), start time and end time(default is 24 hours), personnel type, input the number of library.
3	Operation	Search and export
4	Result of search	The image of searching result is showing.

No.	Function	Description
5	Interface display	Show the current page of the person, and the page displays the number of alarms, switch to next page to show alarm information.

Procedure:

Step 1 Choose the type and library of searching.

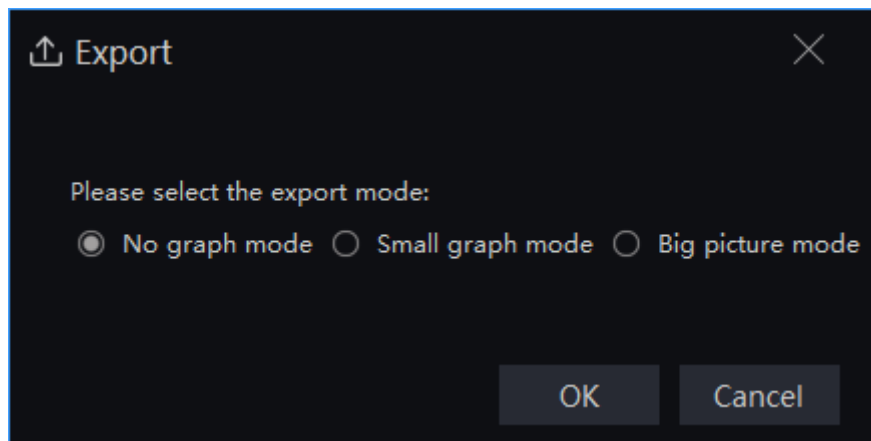
Step 2 Set the start and end time.

Step 3 Choose the personnel and temperature type.

Step 4 Click “Search” to view the result.

Step 5 Click “export” to export the result to local folder.

Figure 12-11 Mode of exporting



There are three modes to export the result of searching.

No graph mode: only basic information, no graph.

Small graph mode: it will show the snapshot of human face.

Big picture mode: it will provide the storage path of panorama.

12.4 Health Archives

At health archives interface, user can track and observe the health status of the person, check the body temperature trend, and the recent over-temperature dynamics; you can also filter, retrieve, and export the person health file.

NOTE

This function only supports body temperature cameras.

12.4.1 Arrchives Manage

Figure 12-12 Health archives

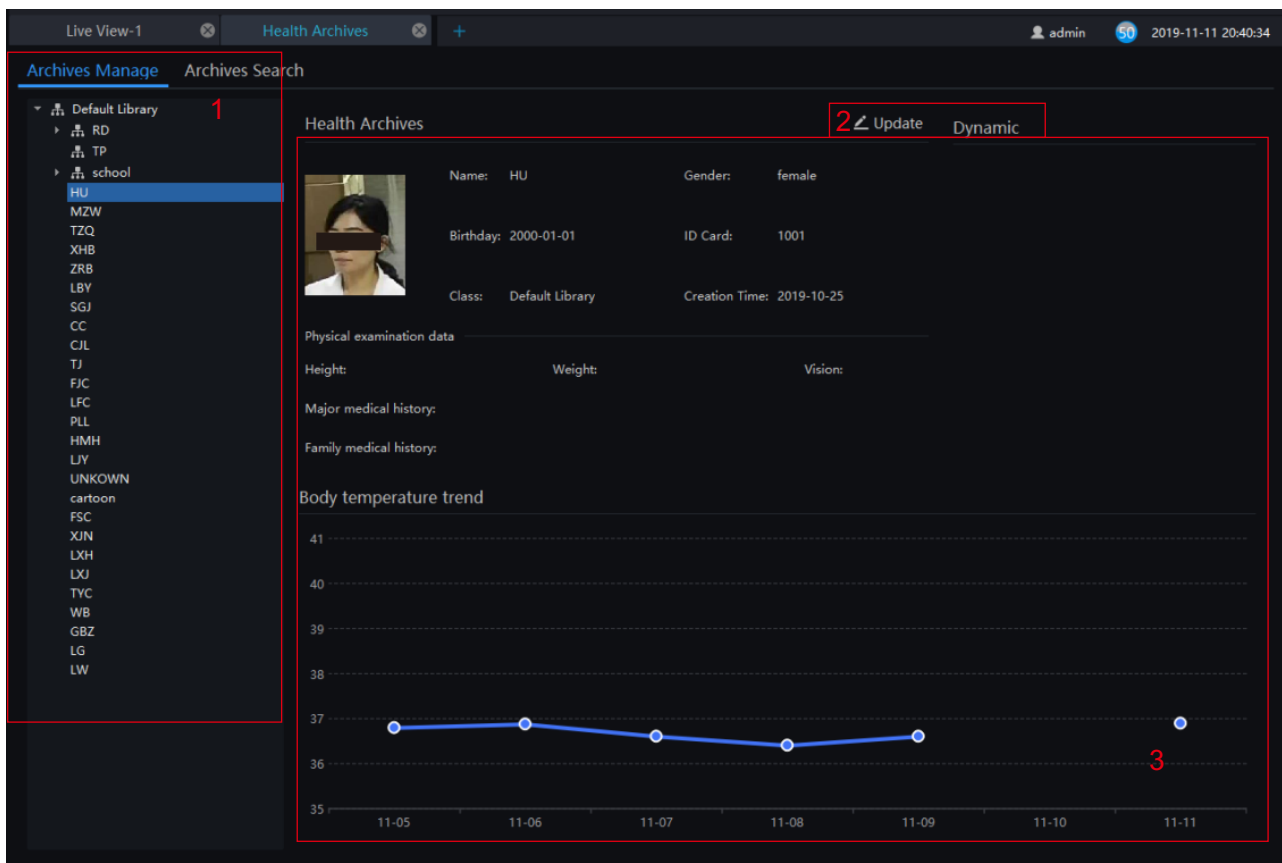


Table 12-1 Health archives

No.	Function	Description
1	Personnel list	Show the people of library.
2	Operation	Update the information. Dynamic: click the name to show dynamic temperature.

No.	Function	Description
3	Detail information	staff information and body temperature trend display, click or roll the mouse wheel, switch to the body temperature chart to the one day .

12.4.2 Archives Search

Procedure:

Step 1 Input the name.

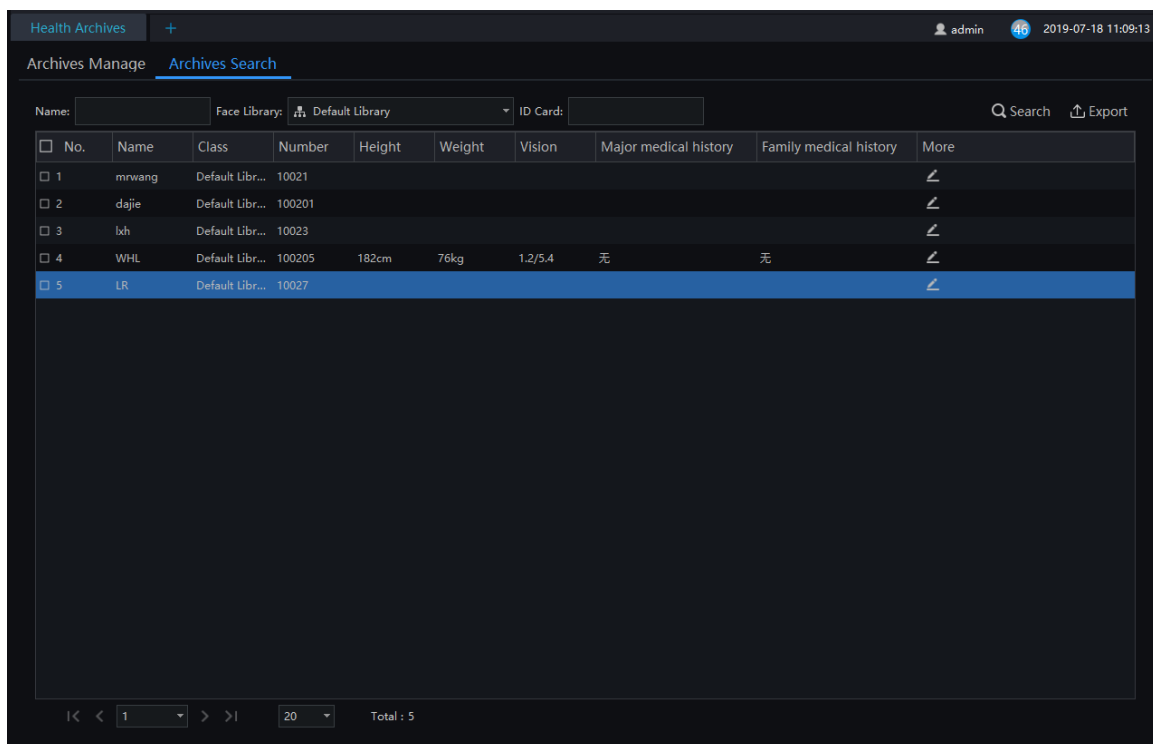
Step 2 Select the face library.

Step 3 Click “Search” to query the archives search.

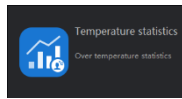
Step 4 The result will show on interface.

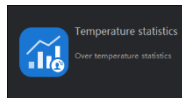
Step 5 Click “Export” to export the result to local folder.

Figure 12-13 Archives search



12.5 Temperature Statistics

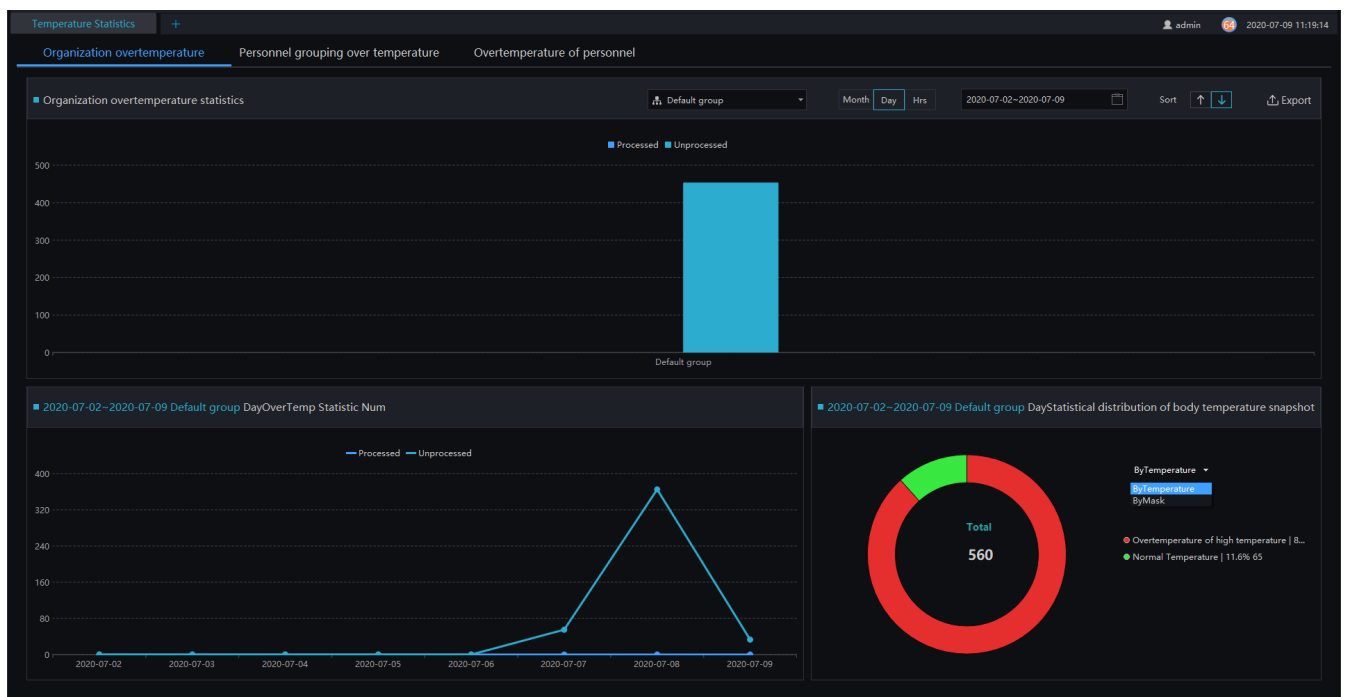


On the main menu page, Click  to view more detailed interface, as shown in Figure 12-14.

NOTE

- This function only supports temperature detection cameras.
- Only processed over-temperature alarms are counted in the statistics.
- The pie chart can be showed by temperature, or mask.

Figure 12-14 Temperature Statistics



The pie chart can show by temperature or mask.

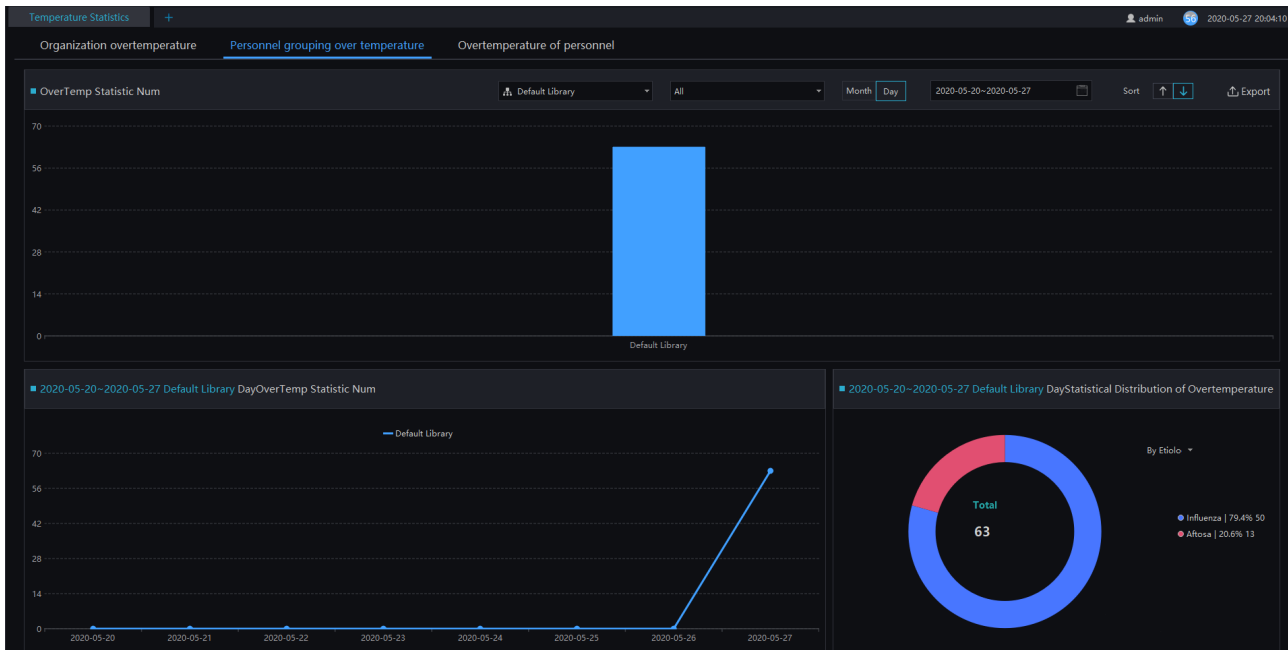
12.5.1 Organization Over Temperature

Procedure:

- Step 1 Select the face database and summarize the type. You can view a summary of the month or day.
- Step 2 Set the display sort type.
- Step 3 User can click “Export” to export the statistics.

12.5.2 Personnel Grouping Over Temperature

Figure 12-15 Personnel Grouping Over Temperature



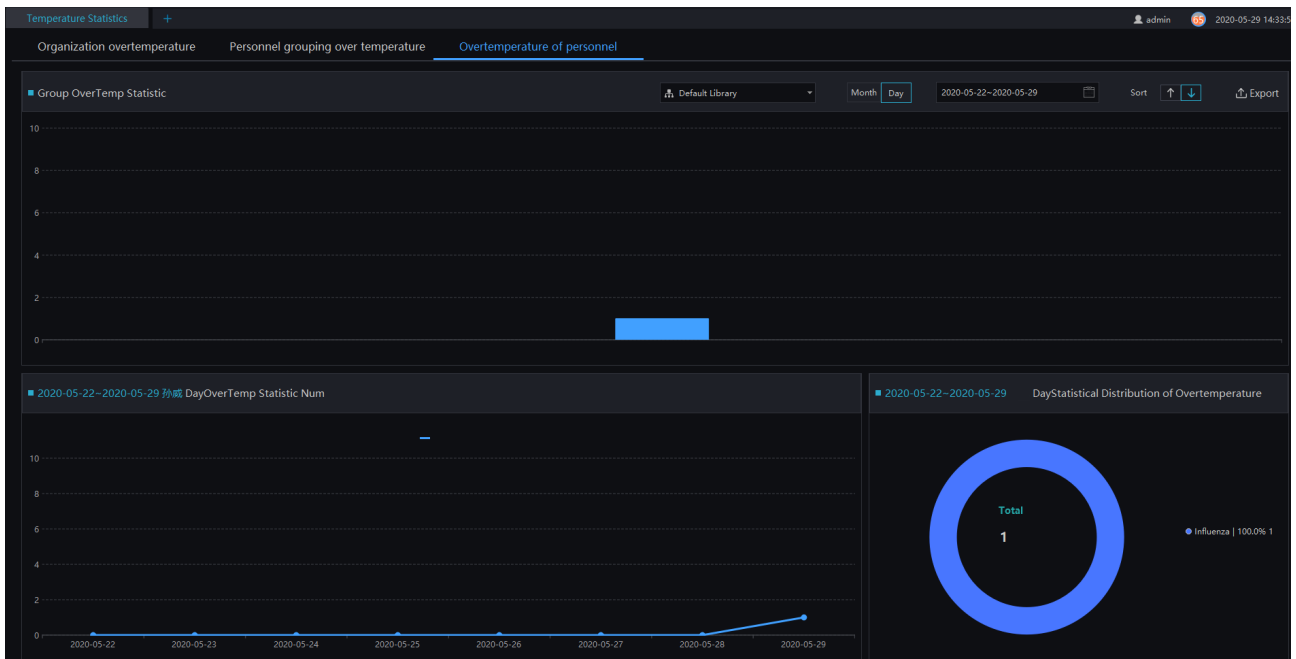
Procedure:

- Step 1 Select the face database and summarize the type. You can view a summary of the month or day.
- Step 2 Set the display sort type.
- Step 3 Results can be exported to a local folder.
- Step 4 Select to view the personnel over temperature.

12.5.3 Over Temperature of Personnel

At over temperature of personnel interface, user can view the personnel's over temperature immediately, as shown in Figure 12-16.

Figure 12-16 Person Over Temperature



13 Thermal Imaging

13.1 Thermal Image History

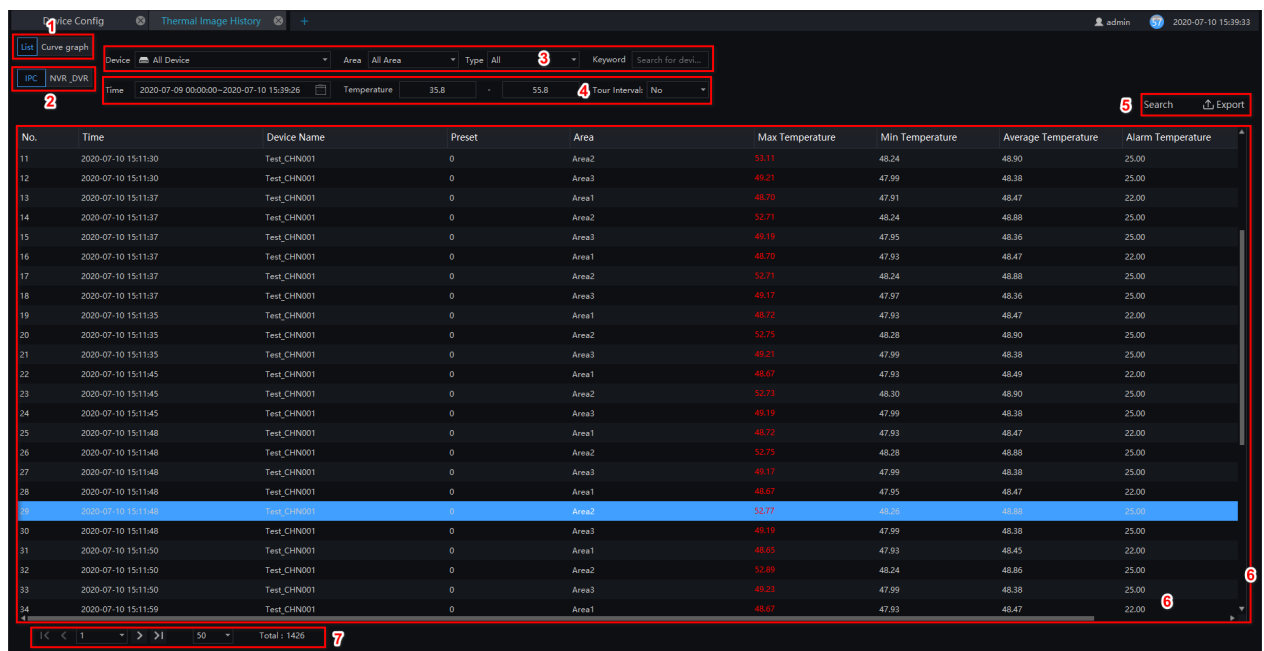
At the thermal temperature interface, you can search the temperature recording of thermal temperature cameras

NOTE

This function only supports temperature detection cameras.

On the main menu page, Click  to view more detailed interface, as shown in Figure 13-1.

Figure 13-1 Thermal image interface



No.	Time	Device Name	Preset	Area	Max Temperature	Min Temperature	Average Temperature	Alarm Temperature
11	2020-07-10 15:11:30	Test_CHN001	0	Area2	51.11	48.24	48.90	25.00
12	2020-07-10 15:11:30	Test_CHN001	0	Area3	49.21	47.99	48.38	25.00
13	2020-07-10 15:11:37	Test_CHN001	0	Area1	48.15	47.91	48.47	22.00
14	2020-07-10 15:11:37	Test_CHN001	0	Area2	52.71	48.24	48.88	25.00
15	2020-07-10 15:11:37	Test_CHN001	0	Area3	49.19	47.95	48.36	25.00
16	2020-07-10 15:11:37	Test_CHN001	0	Area1	48.70	47.93	48.47	22.00
17	2020-07-10 15:11:37	Test_CHN001	0	Area2	52.71	48.24	48.88	25.00
18	2020-07-10 15:11:37	Test_CHN001	0	Area3	49.17	47.97	48.36	25.00
19	2020-07-10 15:11:35	Test_CHN001	0	Area1	48.72	47.93	48.47	22.00
20	2020-07-10 15:11:35	Test_CHN001	0	Area2	52.75	48.28	48.90	25.00
21	2020-07-10 15:11:35	Test_CHN001	0	Area3	49.21	47.99	48.38	25.00
22	2020-07-10 15:11:45	Test_CHN001	0	Area1	48.67	47.93	48.49	22.00
23	2020-07-10 15:11:45	Test_CHN001	0	Area2	52.73	48.30	48.90	25.00
24	2020-07-10 15:11:45	Test_CHN001	0	Area3	49.19	47.99	48.38	25.00
25	2020-07-10 15:11:48	Test_CHN001	0	Area1	48.72	47.93	48.47	22.00
26	2020-07-10 15:11:48	Test_CHN001	0	Area2	52.75	48.28	48.88	25.00
27	2020-07-10 15:11:48	Test_CHN001	0	Area3	49.17	47.99	48.38	25.00
28	2020-07-10 15:11:48	Test_CHN001	0	Area1	48.67	47.95	48.47	22.00
29	2020-07-10 15:11:48	Test_CHN001	0	Area2	52.77	48.26	48.89	25.00
30	2020-07-10 15:11:48	Test_CHN001	0	Area3	49.19	47.99	48.38	25.00
31	2020-07-10 15:11:50	Test_CHN001	0	Area1	48.65	47.93	48.45	22.00
32	2020-07-10 15:11:50	Test_CHN001	0	Area2	52.89	48.24	48.86	25.00
33	2020-07-10 15:11:50	Test_CHN001	0	Area3	49.21	47.99	48.38	25.00
34	2020-07-10 15:11:59	Test_CHN001	0	Area1	48.67	47.93	48.47	22.00

Table 13-1 Temperature alarm

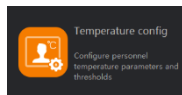
No.	Function	Instruction
1	The showing mode	List or curve graph
2	IPC/NVR_DVR	Choose the source of search, IPC or NVR_DVR
3	Temperature querying setting	Setting temperature search structure, Starting / Ending time, processing status
4	Querying condition	Start and end time, interval and keyword
5	Search	Search by the setting conditions
6	Displaying information	Basic information display of temperature alarm

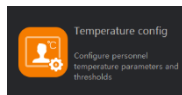
No.	Function	Instruction
7	Page information	Page number, number of pages per page, total Switch to next page

Procedure:

- Step 1 Choose the group / Organization .
- Step 2 Setting Searching starting / ending time, processing.
- Step 3 Click “ Search” the temperature alarm recording.

13.2 Thermal Image Configuration

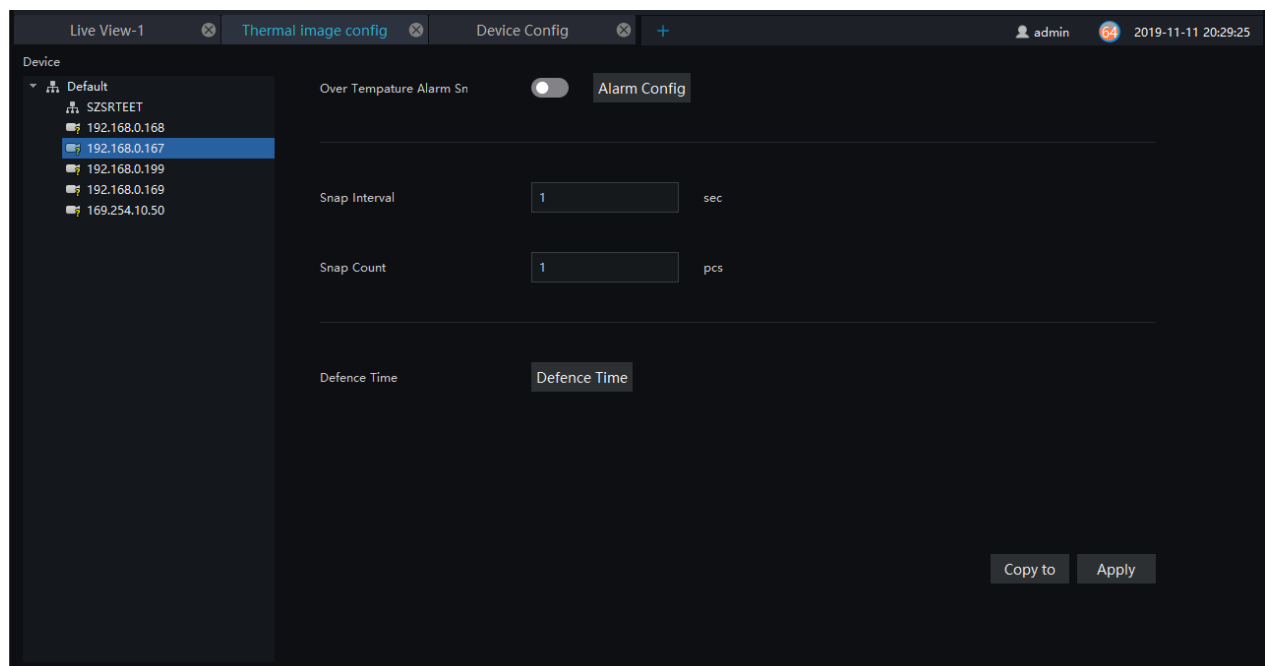


On the main menu page, Click  to view more detailed interface, as shown in Figure 13-2.

NOTE

This function is only subject to thermal cameras.

Figure 13-2 Thermal image configuration

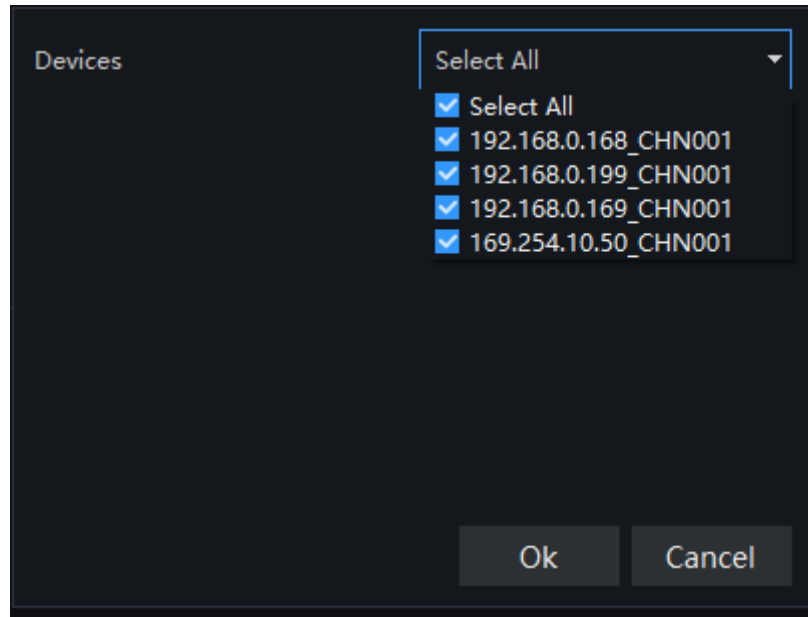


Procedure:

- Step 1 Select the camera you want to set in the thermal imaging device list.
- Step 2 Turn on the over-temperature alarm capture, set the capture interval and the count of captures.
- Step 3 Set the arming time, you can pull the mouse, or select all.
- Step 4 Click Copy to to copy the setup parameters to other cameras.
- Step 5 Click “Apply “ to save settings.

Step 6 Click “Copy to”, as shown in Figure 13-3

Figure 13-3 Copy to



13.3 Thermal Image Search

At this page, you can search the body temperature from the recording.

NOTE

This function only subject to the body temperature detection cameras.

On the main menu page, click  to view more detailed interface, as shown in Figure 13-4.

Figure 13-4 Thermal image interface

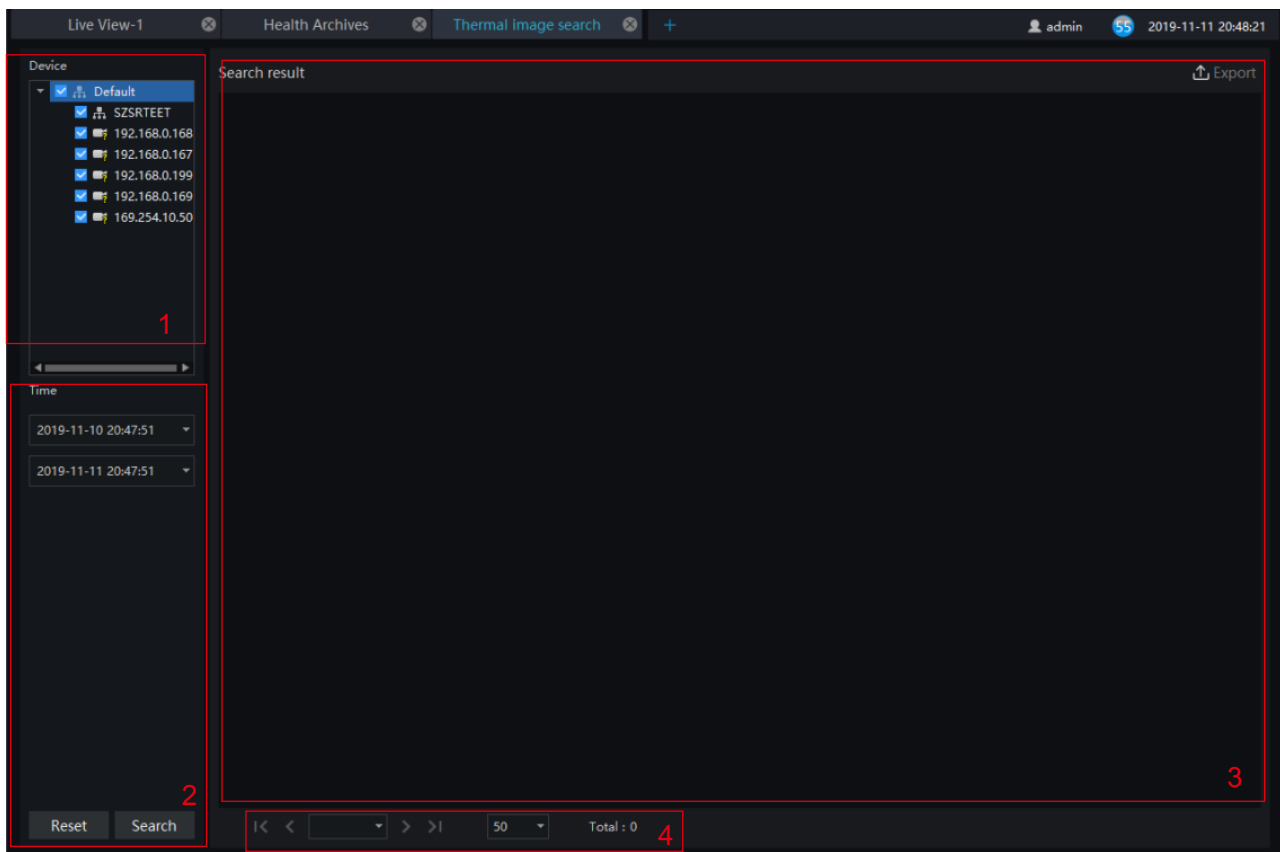


Table 13-1 Temperature search

No.	Function	Description
1	Device list	The thermal image devices
2	Search time	Set start and end time of searching.
3	Displaying information	Result of searching.
4	Page information	Page number, number of pages per page, total. Switch to next page.

Procedure:

- Step 1 Select the devices.
- Step 2 Set start and end time of searching, the default is previous 24 hours.
- Step 3 Click “ Search” the temperature will show in the display area.
- Step 4 Click “Export” to export the result to local folder.

