

CMS
(Center Management System)
User Manual

Issue: 1.0

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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, thermal 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 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.

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 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 |
|-----|---------------------------------|------|------|

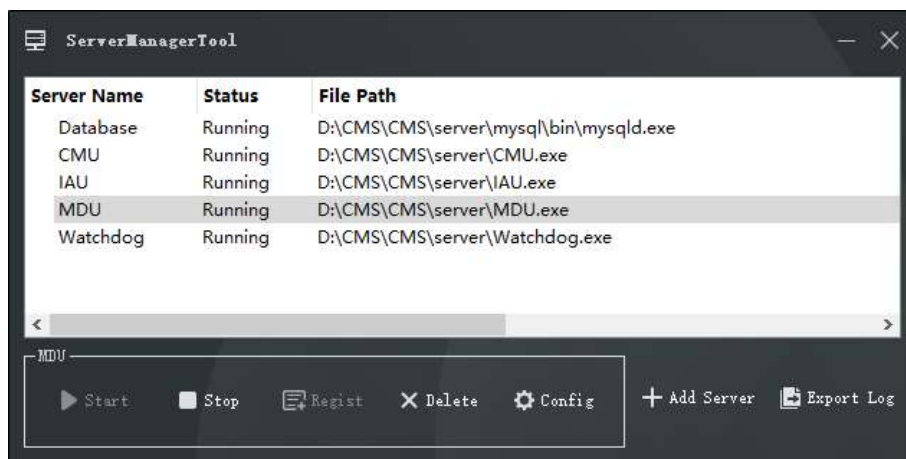
 **NOTE**

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

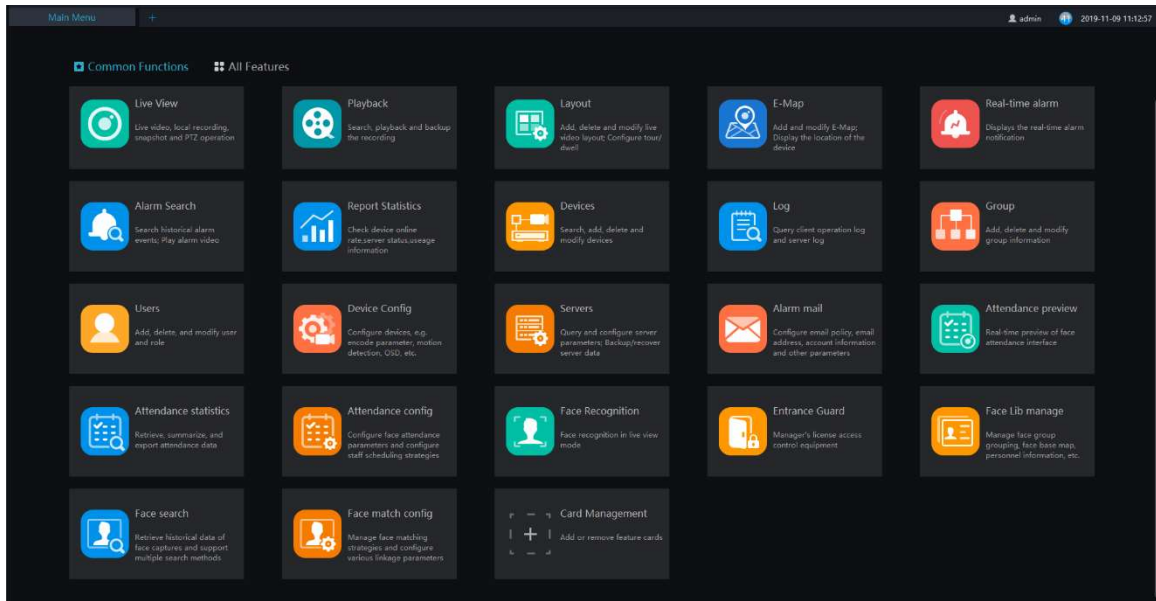


1.2.5 Client

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



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 | 4 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 |

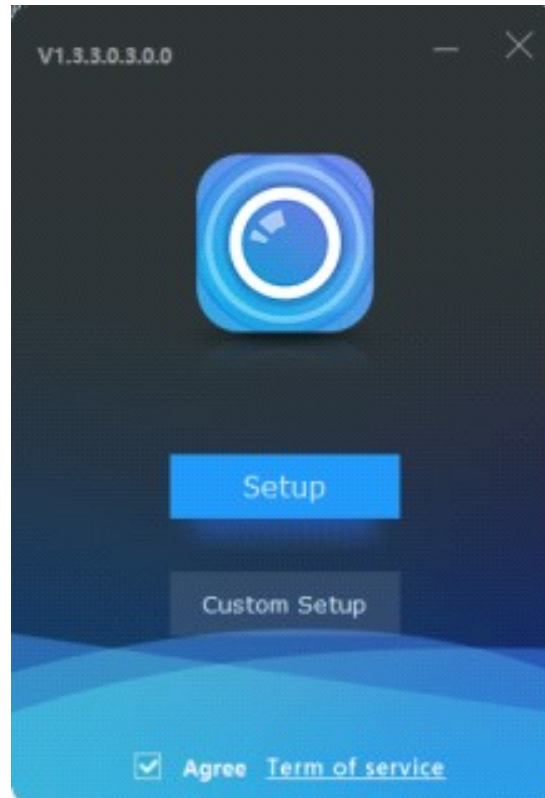
| | | | | | |
|--------------------|--|-----|-----|-----|---------------------------|
| OS | <p>Microsoft® Windows® 7 Pro (64 bit)</p> <p>Microsoft® Windows® 10 Pro (64 bit)</p> <p>Microsoft® Windows® 10 Enterprise (64 bit)</p> <p>Microsoft® Windows® Server 2012</p> <p>Microsoft® Windows® Server 2016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

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

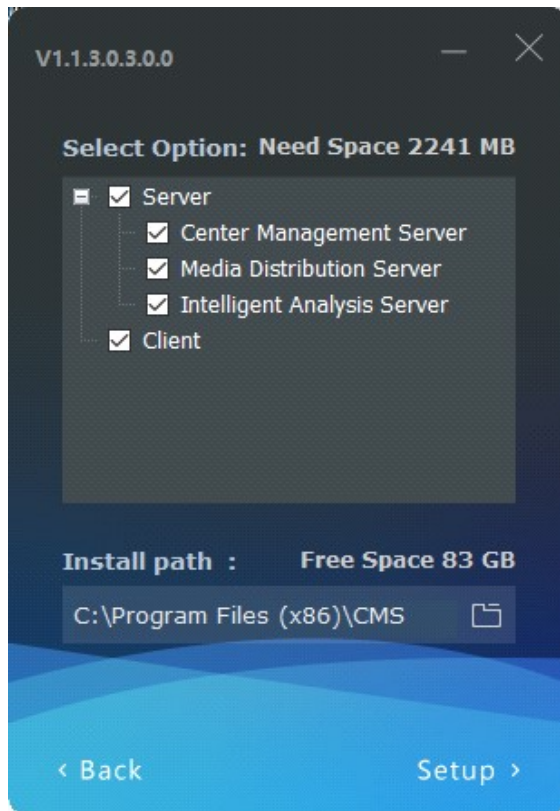


2.2 Custom Installation

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”.

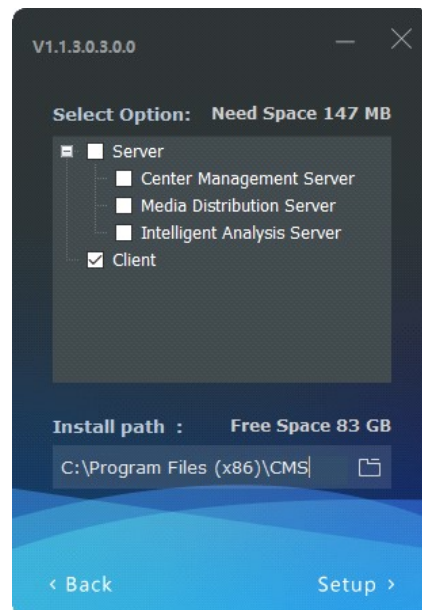
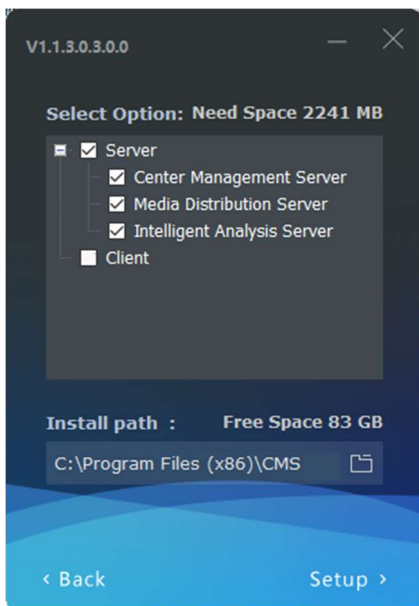
Figure 2-2 Installtion interface



- 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



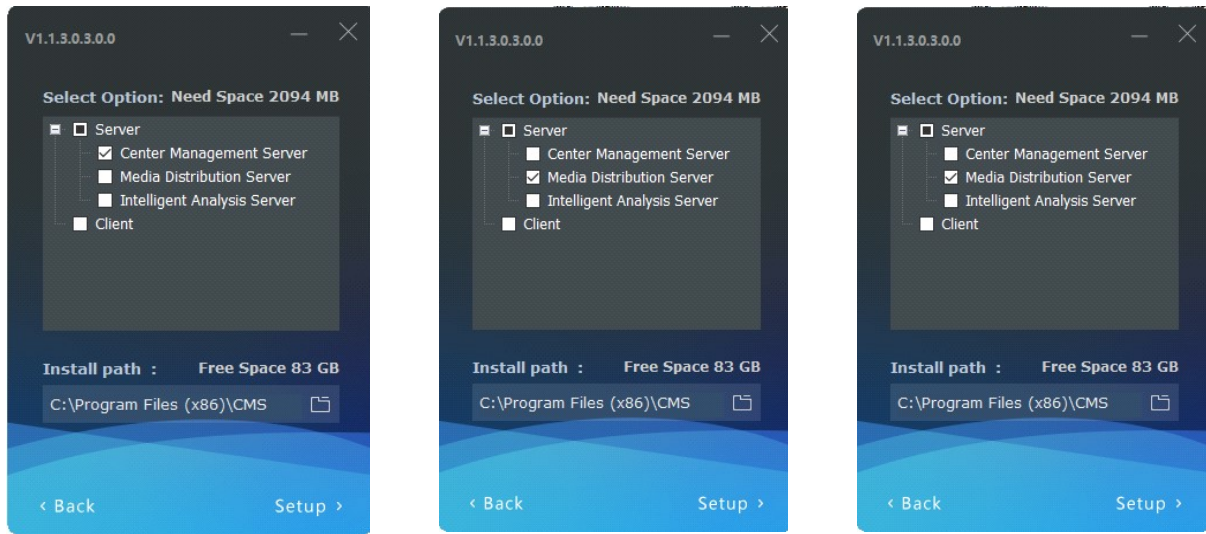
- Large Method: All components of the platform are installed on different machines to form a larger system

Figure 2-4

CMU on A machine

MDU on B machine

IAU on C machine

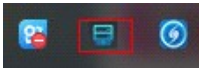


After the server is installed, you need to use the server management tool to configure the IP of the central management server of the media distribution server and the intelligent analysis server, which is convenient for unified management by the central management server. The tool is automatically displayed 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**

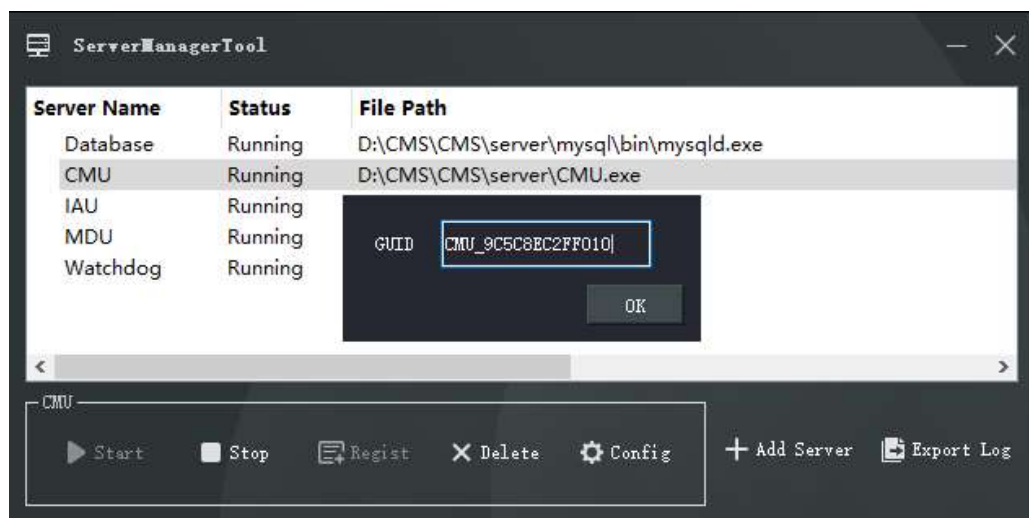
If the installation is failed, it is recommended to close the firewall or antivirus software.

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



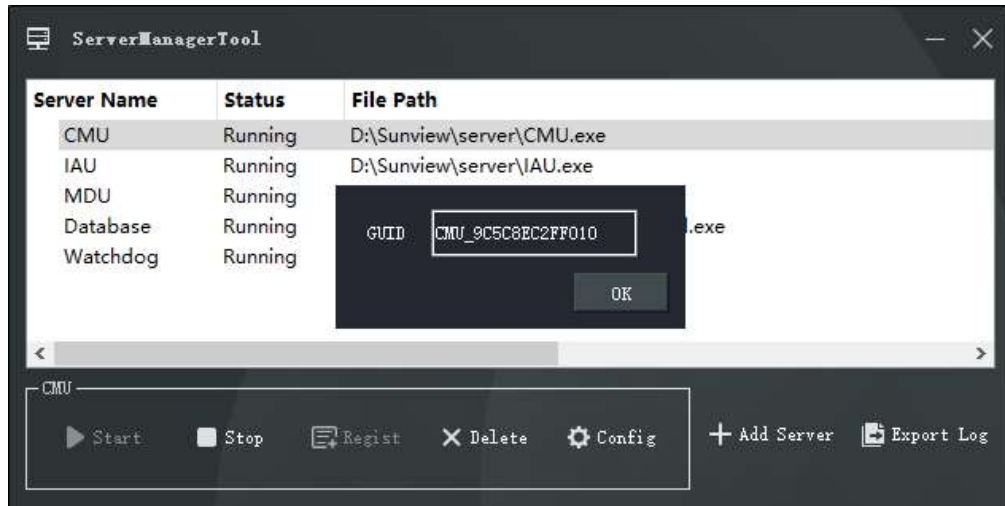
, click and open the menu.

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.

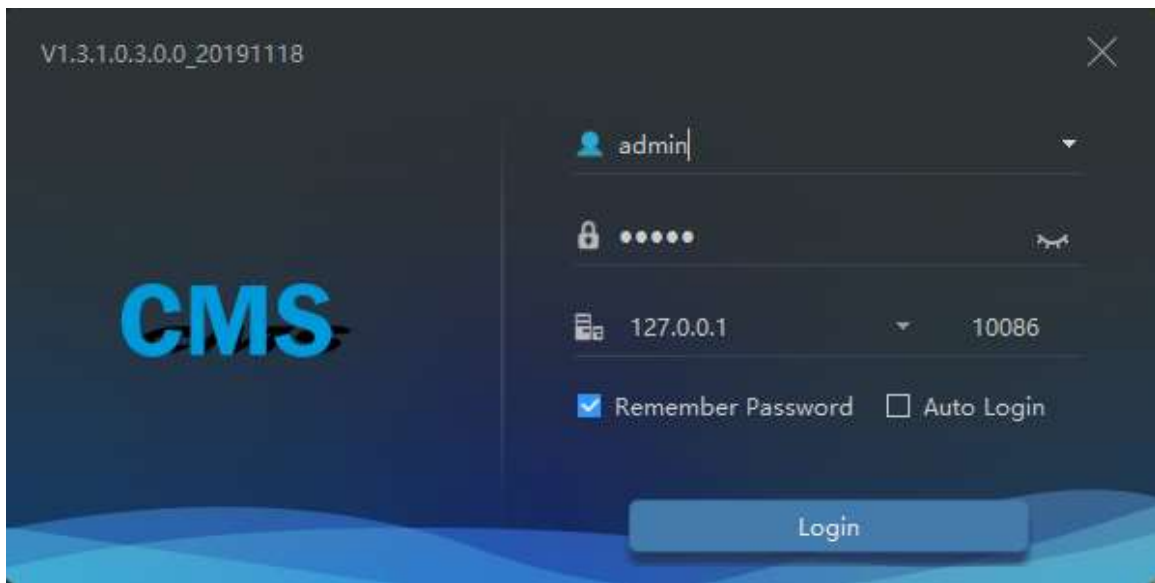
3 Login

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.

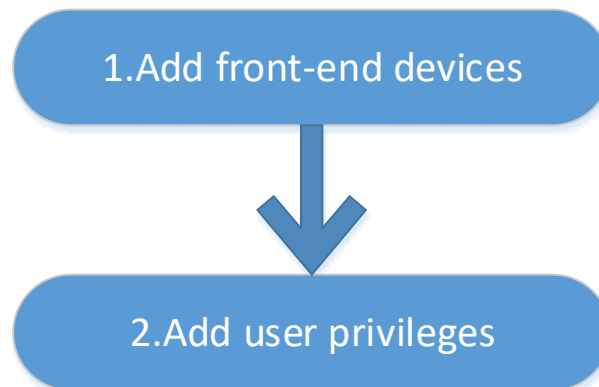
Figure 3-1 Login interface



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.

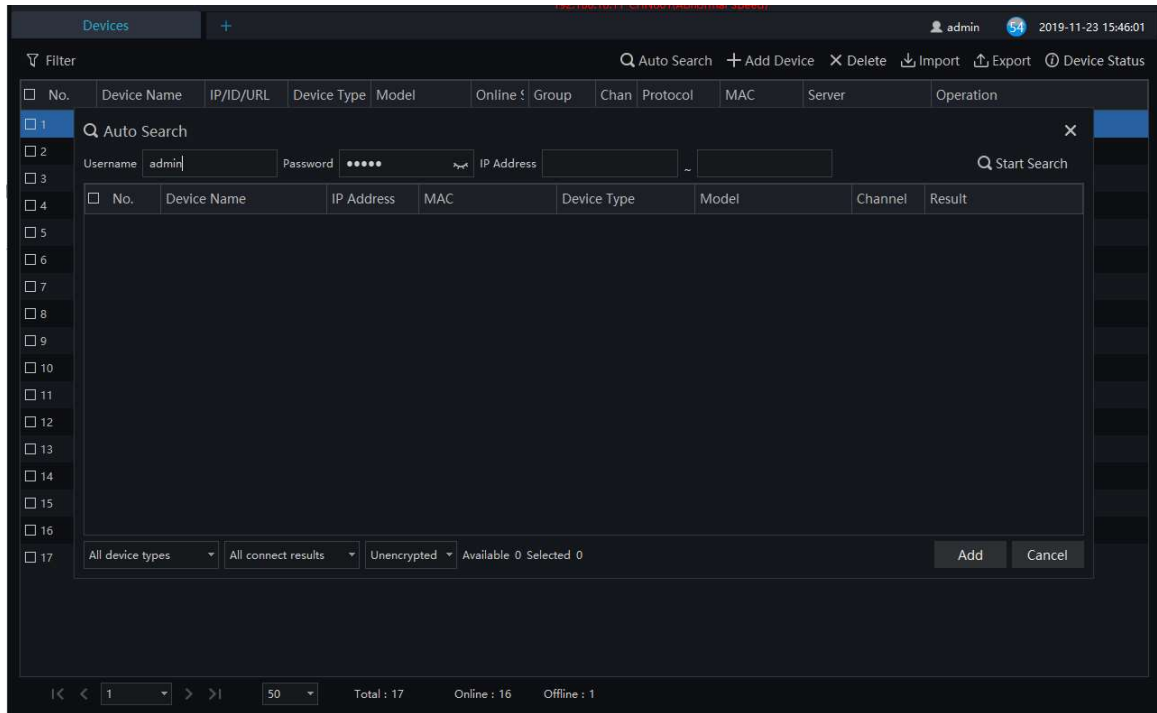
4.1 Monitoring Application Configuration Process



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:

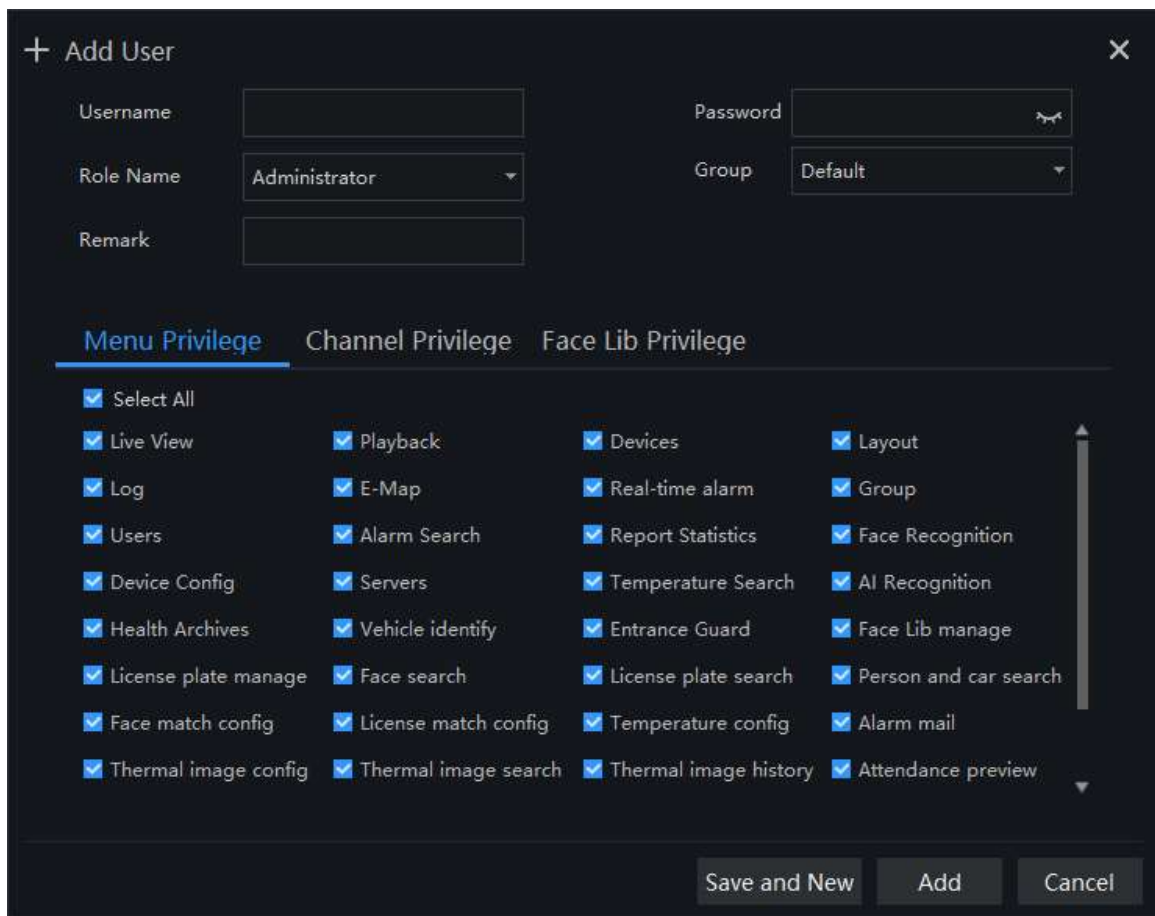
4.1.2 Add User Permissions

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

Role Name Administrator

Remark

Password

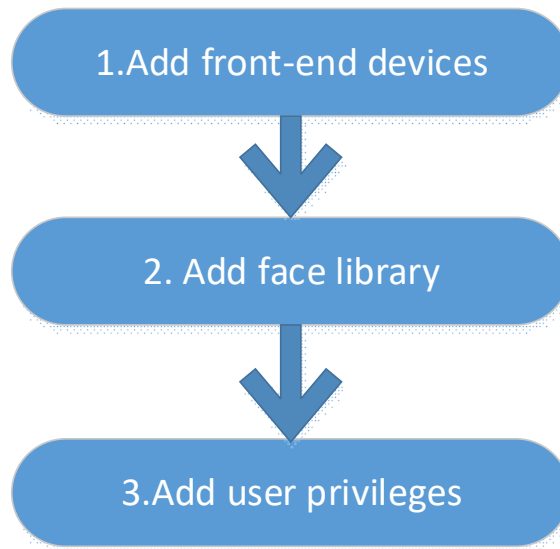
Group Default

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
- 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

The screenshot shows a dark-themed dialog box titled "AddLib". It features a close button (X) in the top right corner. The form contains three input fields: "Library Name" (a text input field), "Face Library" (a dropdown menu with "Default Library" selected), and "Remark" (a text input field). At the bottom of the dialog, there are three buttons: "Save and New", "Save", and "Cancel".

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 screenshot shows a 'Person Enroll' dialog box with the following fields and options:

- Name:** Text input field.
- Gender:** Dropdown menu set to 'Male'.
- Birthday:** Date picker set to '2000-01-01'.
- ID Card:** Text input field.
- Type:** Dropdown menu set to 'Teacher'.
- Face Library:** Dropdown menu set to 'Default Library'.
- Valid Time:** Dropdown menu set to 'Permanent validity'.
- Remark:** Text input field.
- Picture:** A section with five empty photo slots, a 'Select File' button, and a 'One key photo' button.

At the bottom of the dialog are three buttons: 'Save and New', 'Save', and 'Cancel'.

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

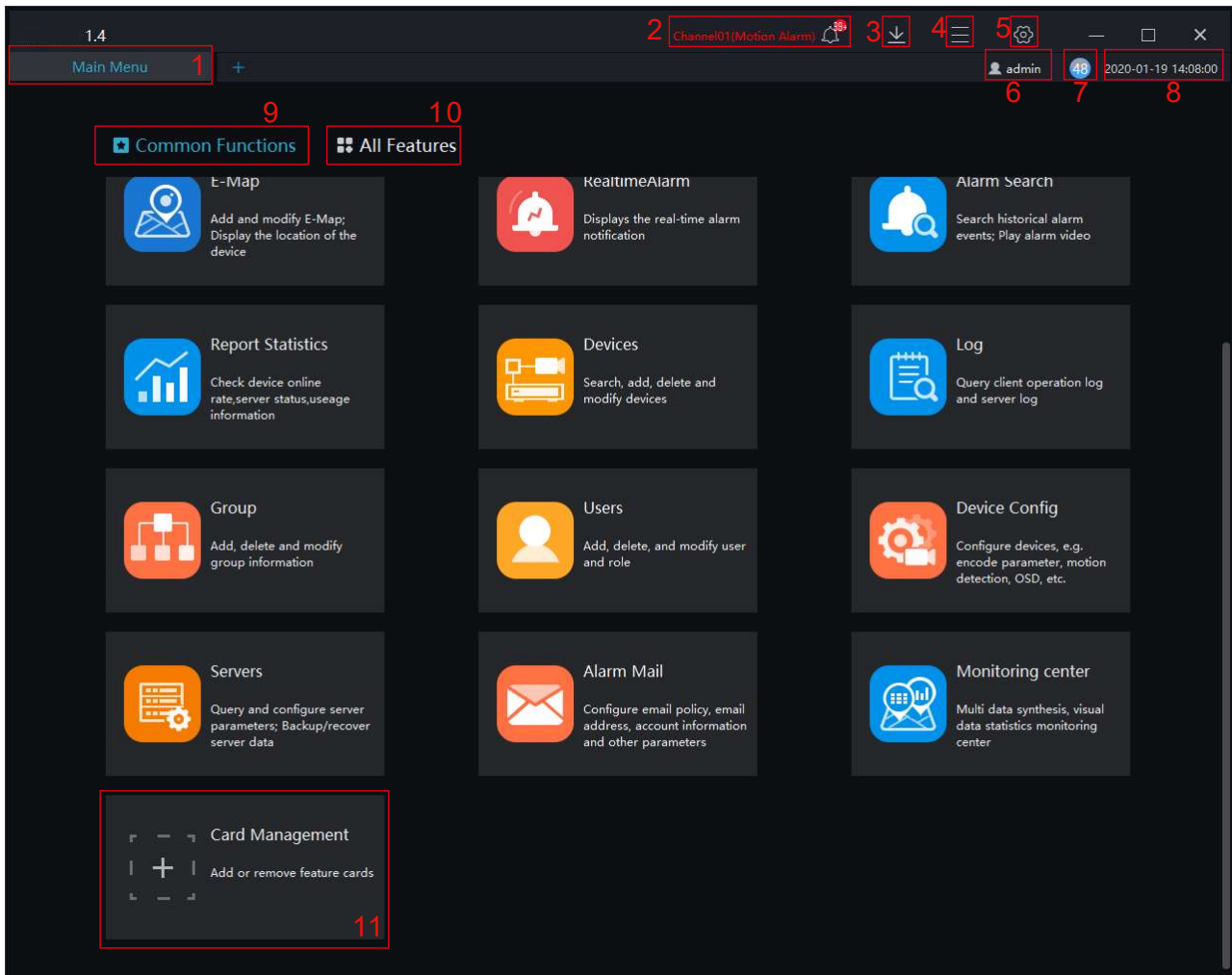
Menu Privilege Channel Privilege Face Lib Privilege

- 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
- Attendance config
- Devices
- Real-time alarm
- Report Statistics
- Temperature Search
- Entrance Guard
- License plate search
- Temperature config
- Thermal image search
- Thermal image history
- Traffic statistics
- Layout
- Group
- Face Recognition
- AI Recognition
- Face Lib manage
- Person and car search
- Alarm mail
- Attendance preview
- Temperature statistics

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

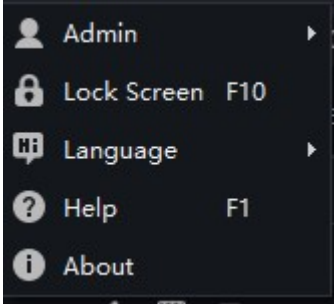


TIP

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 |  <p>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.</p> |
| 6 | Setting | <p>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.</p> <p>Click "Save" to save the relevant settings.</p> |
| 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 | <p>All function modules are displayed, and the function interface is quickly entered. You can drag the function module to change the placement position.</p> <p>Basic function: Live View, Playback, Layout, E-map, Real-time Alarm, Alarm Search, Report Statistic, as shown in Figure 5-3.</p> <p>Configuration Maintenance: Devices, Log, Group, Users, Device Config, Servers, Alarm Mail, as shown in Figure 5-4.</p> <p>Face Recognition: Face Recognition, Face Library Manage, Face Search, Face Match Config, Classification Data Query, as shown in Figure 5-5.</p> <p>License Plate Recognition: Vehicle Identify, License Plate Manage, License Plate Search, License Match Config, as shown in Figure 5-6.</p> <p>Multi-target Recognition: AI Recognition, Person and Car Search, Traffic Statistics, as shown in Figure 5-7.</p> <p>Attendance: Attendance Preview, Attendance Statistics, Attendance Config, as shown in Figure 5-8.</p> <p>Temperature Monitor: Temperature Screening, Temperature Search, Health Archives, Temperature Config, Temperature Statistics, as shown in Figure 5-9.</p> <p>Thermal Imaging: Thermal Image Config, Thermal Image Search, Thermal Image History, as shown in Figure 5-10.</p> |
| 11 | Card management | Add or remove feature card to common functions interface, as shown in Figure 5-11. |

Figure 5-2 System Setting

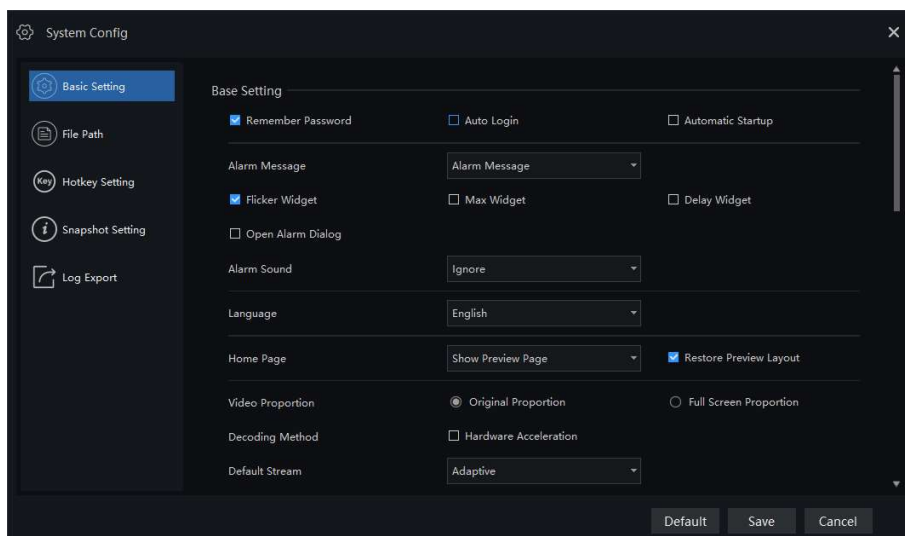


Figure 5-3 Basic Functions

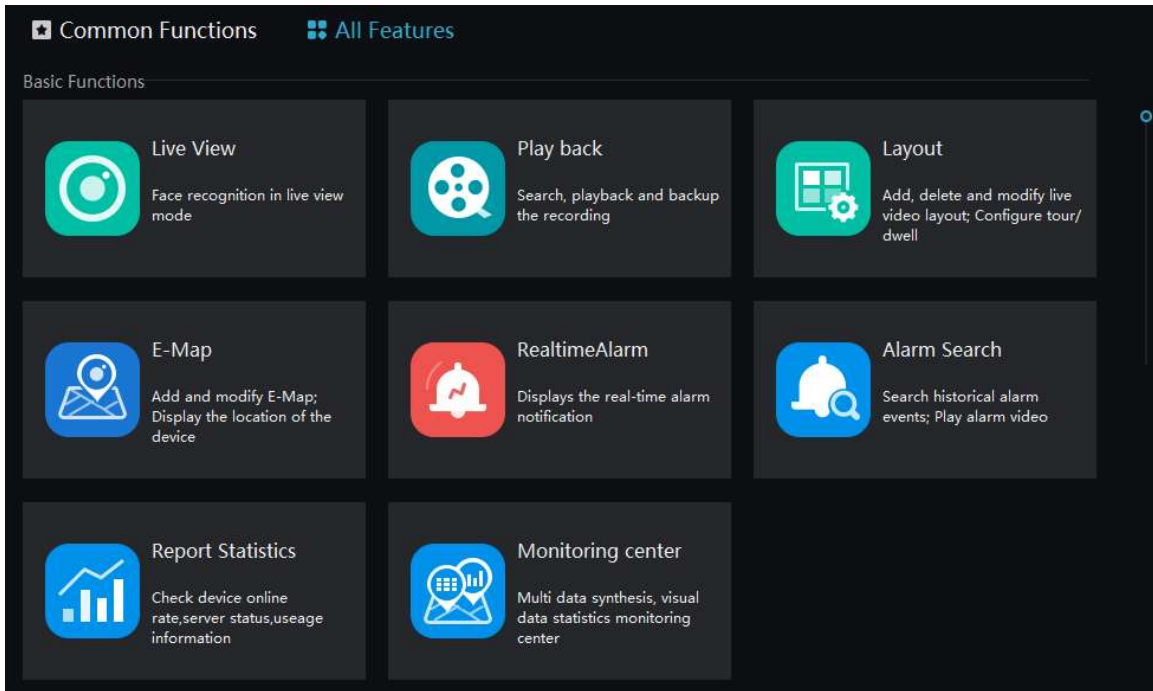


Figure 5-4 Configuration Maintenance

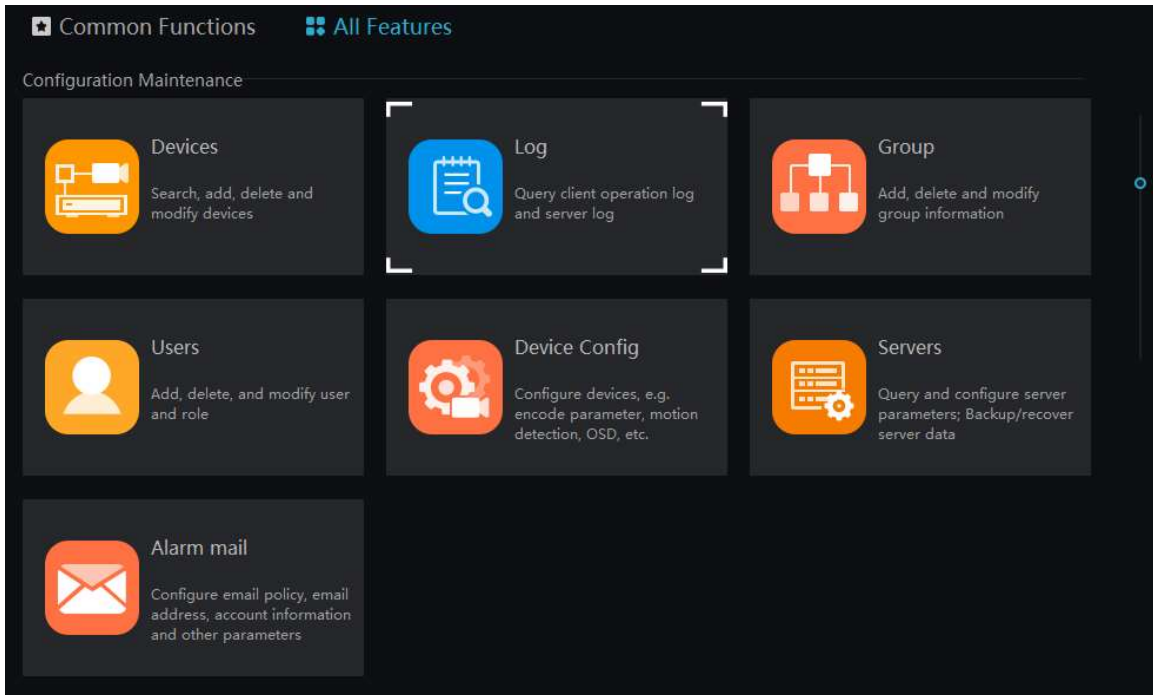


Figure 5-5 Face Recognition

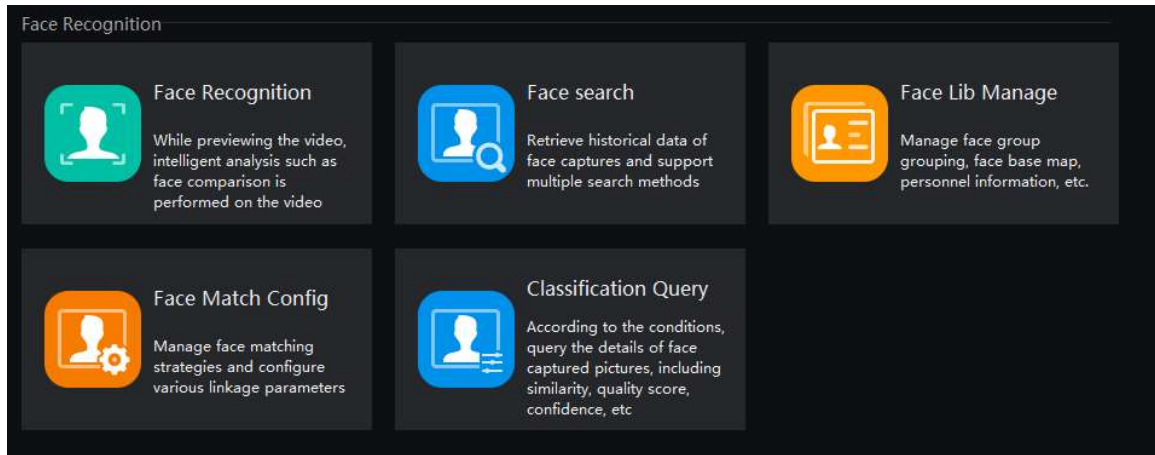


Figure 5-6 License Plate Recognition

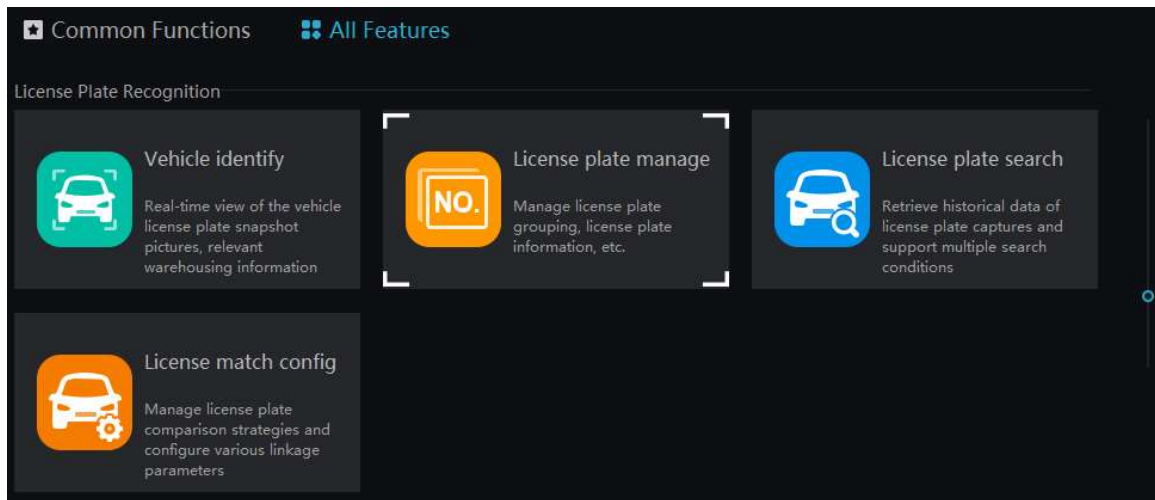


Figure 5-7 Multi-target Recognition

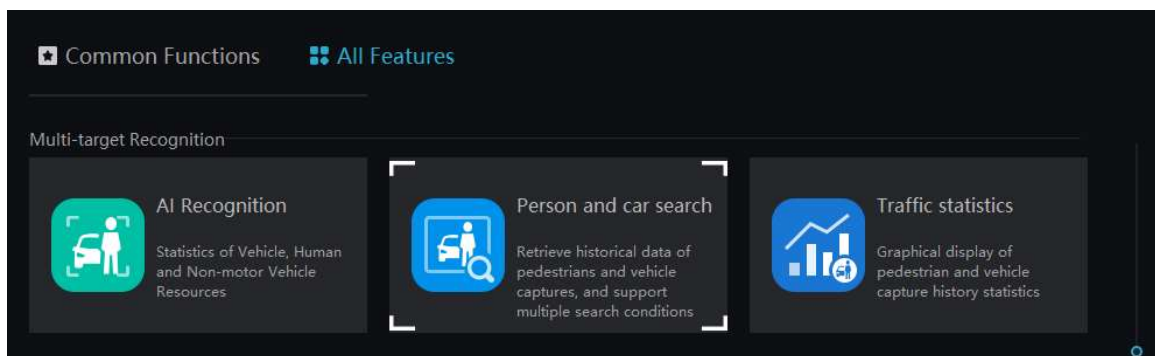


Figure 5-8 Attendance

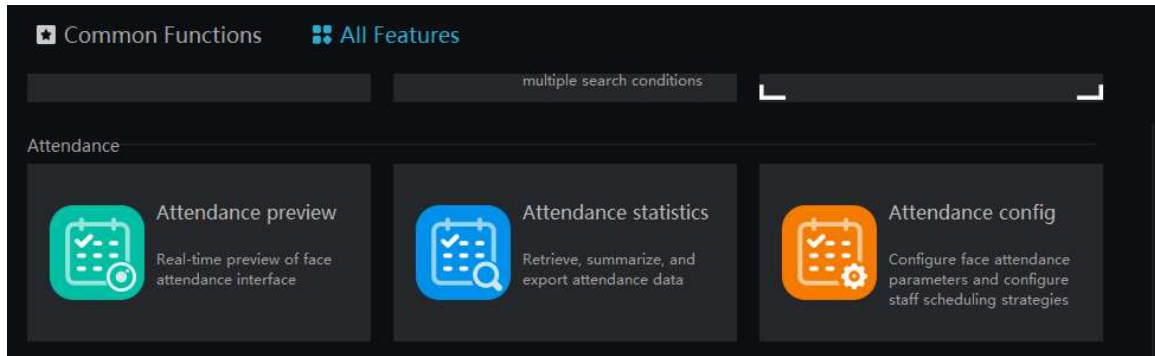


Figure 5-9 Temperature Monitor

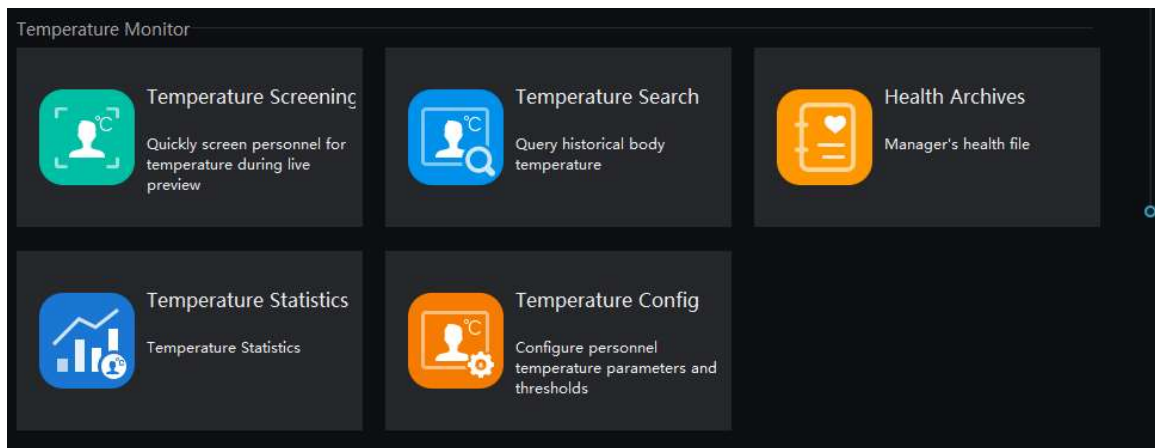


Figure 5-10 Thermal Imaging

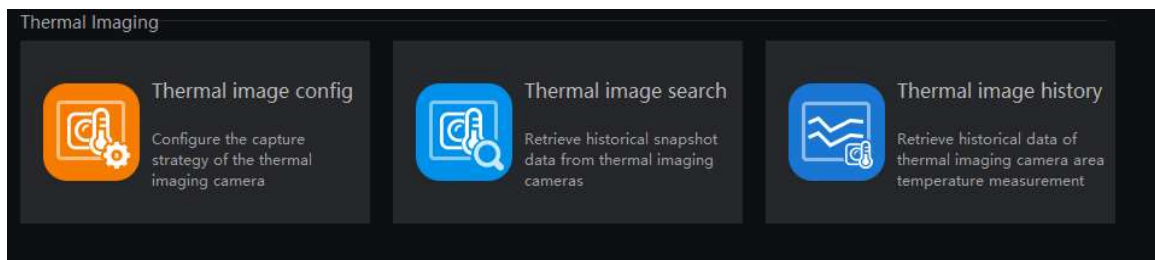
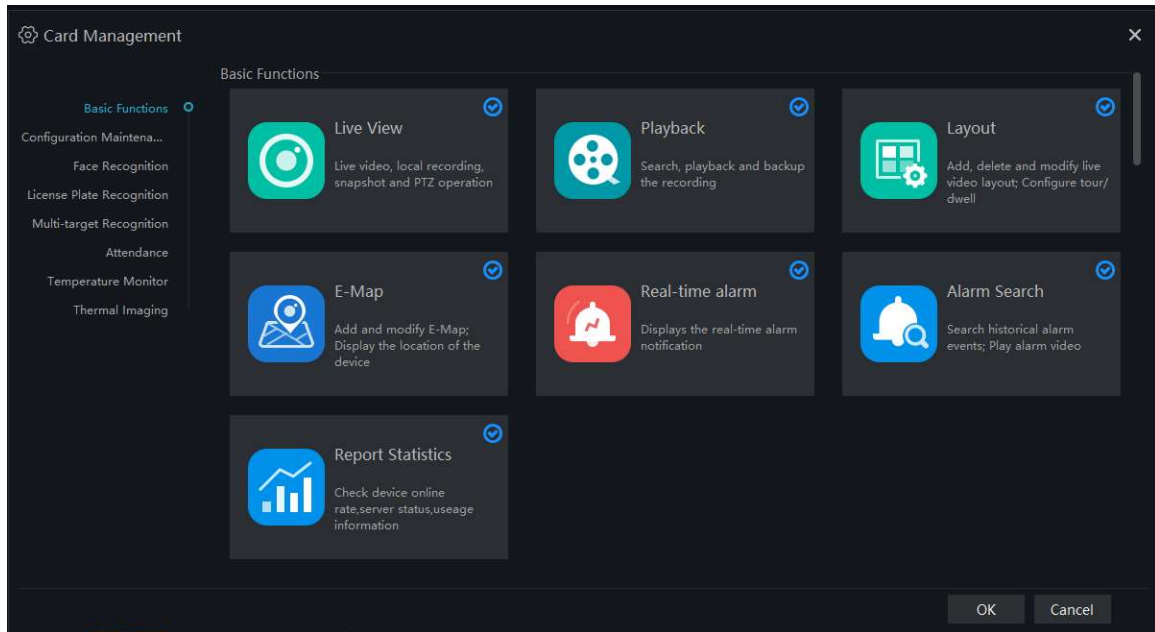


Figure 5-11 Card management



6 Devices Management

At the device management page, you can add devices (such as IPC, NVR) through automatically searching, manually adding or batch importing. The platform supports the following device types: IPC, 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 6-1

Figure 6-1 Device Management interface

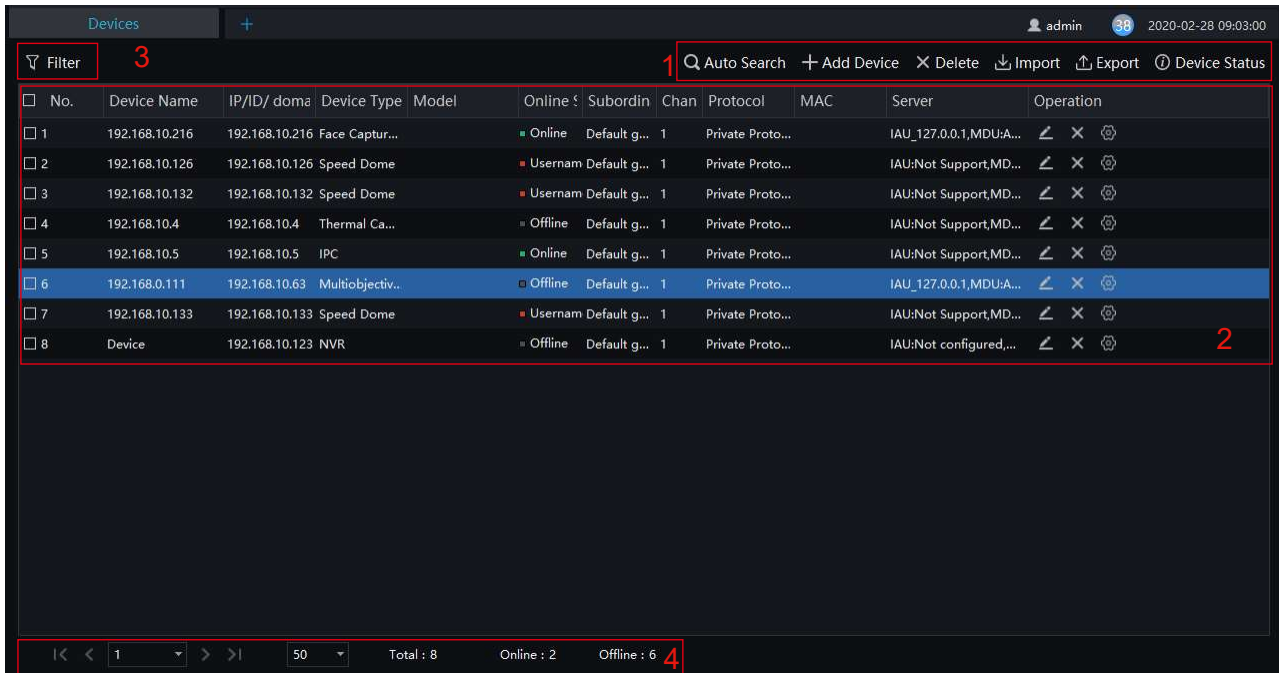


Table 6-1 Device Management

| 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. |

6.2 Auto Search

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

Procedure:

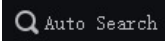
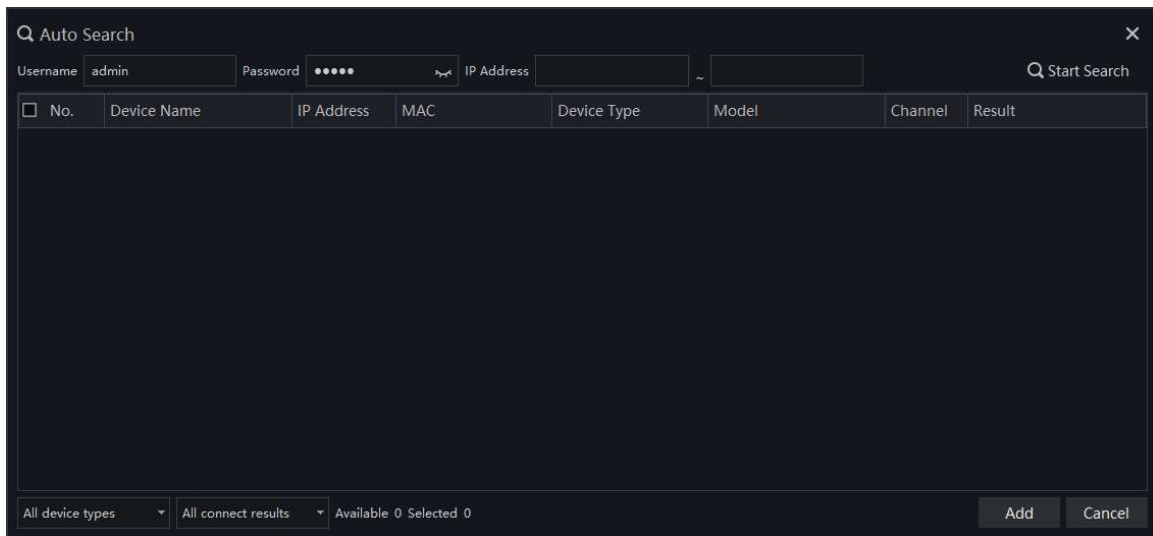
Step 1 On device management page click  enter auto search page ,as shown in Figure 6-2.

Figure 6-2 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.

6.3 Manual Add

Procedure:

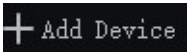
Step 1 Click  at device management page, get into manual add device page, as shown in Figure 6-1

Figure 6-3 Manually add device page

 **CAUTION**

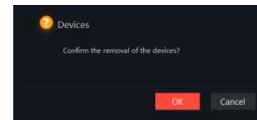
The intelligent analysis server does not support auto, only supports cameras with face detection;
 The media distribution server supports automatic, such as multiple media distribution servers for load balancing.

Figure 6-4 Server associated

Step 1 Input the device name, select the device type, input the IP address/user name/password, and select group

Step 2 Click “test” to check your settings, click “Save and New”

Step 3 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 4 Delete the cameras: tick the No of cameras, click “Delete” to show delete the cameras. , click “ OK ” to

6.4 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

6.5 Device Status

Procedure:

- Step 1 Click “Device Status”.
- Step 2 The pop-up window show the status of devices as shown in Figure 6-5.

Figure 6-5 Device Status

| No. | Device Name | IP/URL | Device Type | Online Status | Channel | MAC | Record Status | Last Record Time |
|-----|----------------|----------------|-------------|---------------|---------|-----|---------------|------------------|
| 1 | 192.168.10.216 | 192.168.10.216 | | Online | 1 | | ----- | ----- |
| 2 | 192.168.10.126 | 192.168.10.126 | | | 1 | | ----- | ----- |
| 3 | 192.168.10.132 | 192.168.10.132 | | | 1 | | ----- | ----- |
| 4 | 192.168.10.4 | 192.168.10.4 | | Offline | 1 | | ----- | ----- |
| 5 | 192.168.10.5 | 192.168.10.5 | | Online | 1 | | ----- | ----- |
| 6 | 192.168.0.111 | 192.168.10.63 | | Offline | 1 | | ----- | ----- |
| 7 | 192.168.10.133 | 192.168.10.133 | | | 1 | | ----- | ----- |
| 8 | Device | 192.168.10.123 | | Offline | 1 | | ----- | ----- |

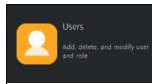
- Step 3 Click “Export”.
- Step 4 Set the save folder to save the status log.

--End

7 User Management

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 7-1.

Figure 7-1 User management interface

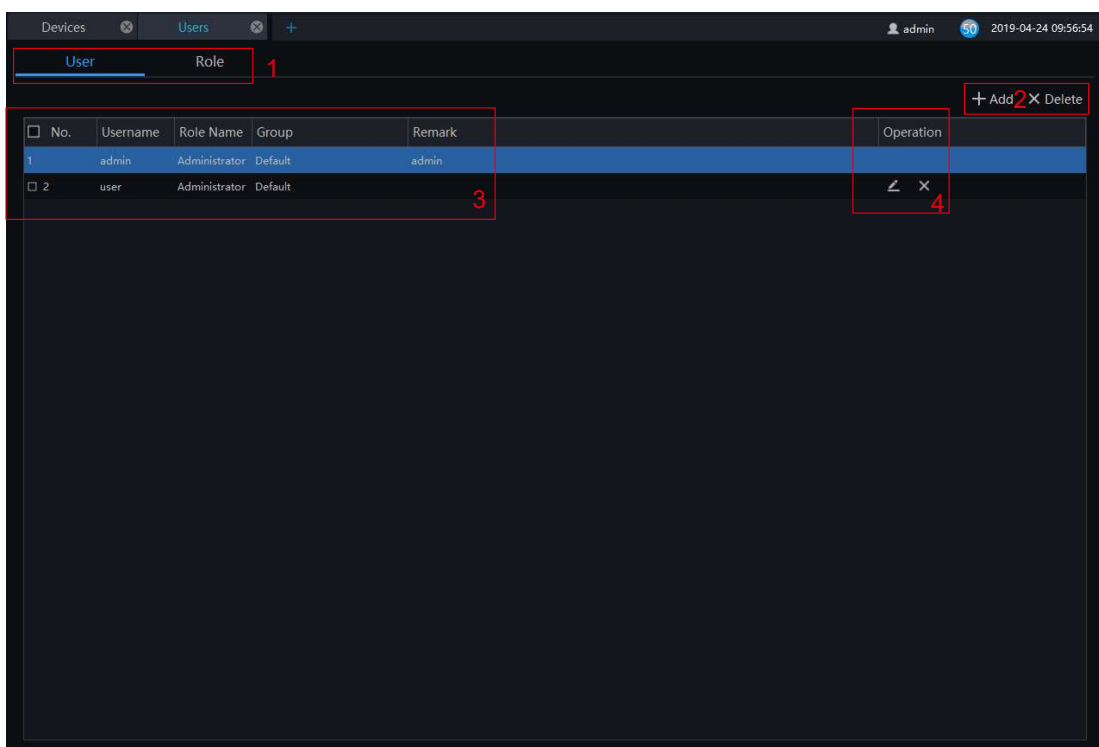


Table 7-1 User management

| 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 |

7.1 Add User

Procedure:

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

Figure 7-2 Add User

The screenshot shows the 'Add User' dialog box with the following fields and options:

- Username:** [Empty text input]
- Password:** [Empty password input with eye icon]
- Role Name:** Administrator (dropdown menu)
- Group:** Default (dropdown menu)
- Remark:** [Empty text input]

Privilege Selection:

- Menu Privilege (Active):**
 - Select All
 - Live View
 - Log
 - Users
 - Device Config
 - Health Archives
 - License plate manage
 - Face match config
 - Thermal image config
- Channel Privilege:**
 - Playback
 - E-Map
 - Alarm Search
 - Servers
 - Vehicle identify
 - Face search
 - License match config
 - Thermal image search
- Face Lib Privilege:**
 - Devices
 - Real-time alarm
 - Report Statistics
 - Temperature Search
 - Entrance Guard
 - License plate search
 - Thermal image history

Additional Privileges (Visible in the list):

- Layout
- Group
- Face Recognition
- AI Recognition
- Face Lib manage
- Person and car search
- Alarm mail
- Attendance preview

Buttons: 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).

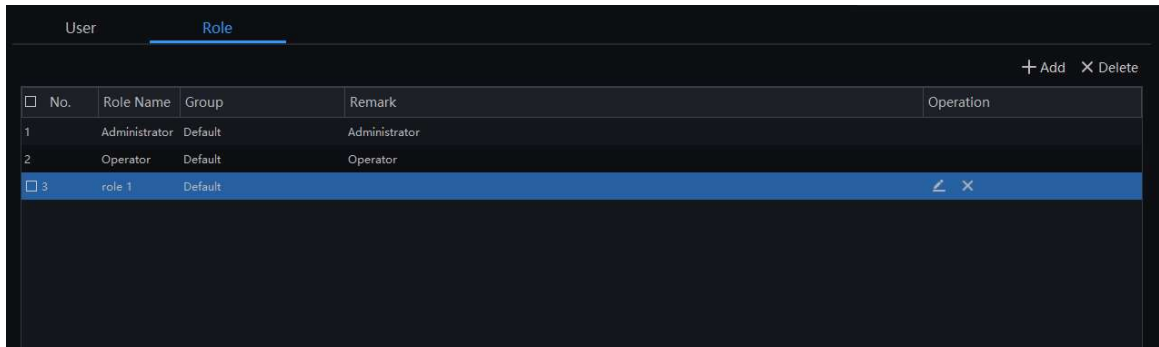
Step 5 Click “Save and New” or “Add” to save and add user, it will pop-up “add successfully”.

7.2 Add Role

Procedure:

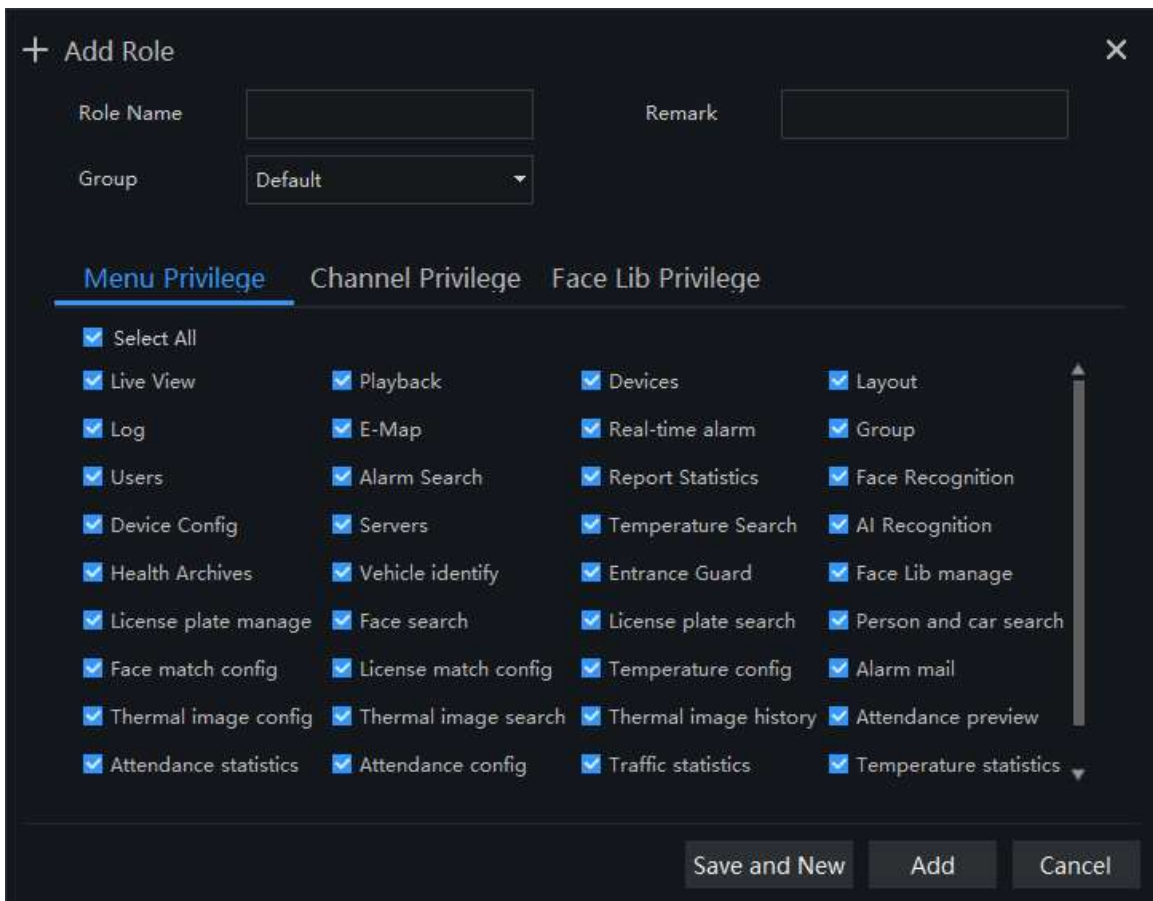
Step 1 At the user management interface, click “Role Name” to get the below interface

Figure 7-3 Role interface



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

Figure 7-4 Add role



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.

8 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 8-1

 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 8-1 Live view UI

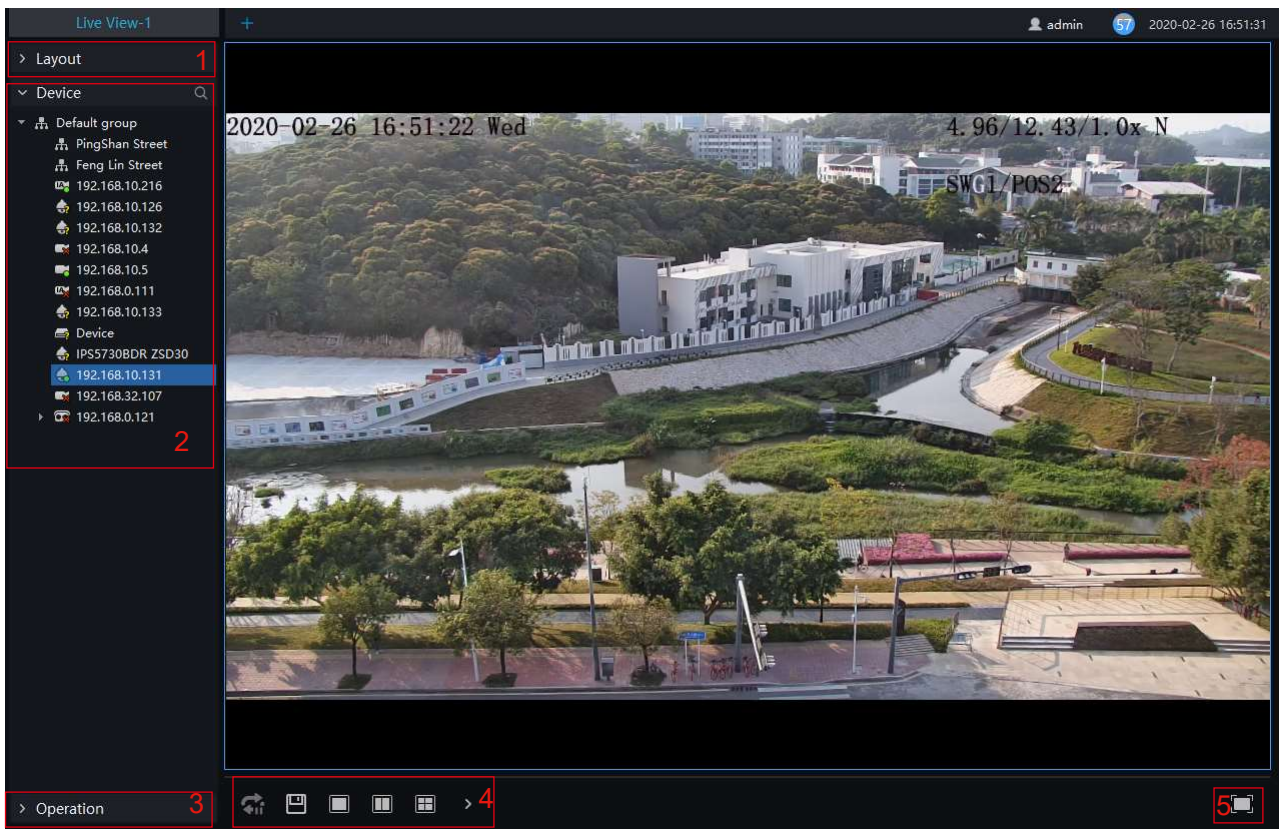



Table 8-1 Live view

| 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, two screens, four screens, support maximum 64 screens.  |
| 4 | Operation | Set dome device PTZ/ Image parameter. |
| 5 | Full screen | Full screen |

8.1 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.

8.2 Device

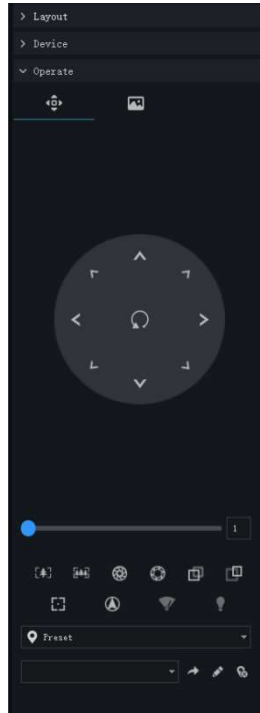
Display the device list under current user account, users can watch the real-time video by double clicking or dragging and dropping the mouse at online channel.

8.3 Operation

NOTE

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

Figure 8-2 PTZ adjustment



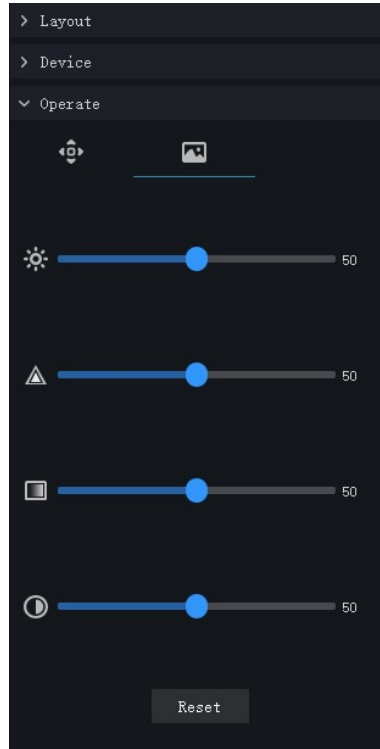
PTZ Operation: adjust the PTZ full-scale movement, lens zoom, edit and control, zoom in, zoom out, IRIS increase and decrease, near focus, far focus, focus, orientation, and wiper, turn on the light.

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 8-3 Image adjustment



9 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 9-1

Figure 9-1 Playback interface

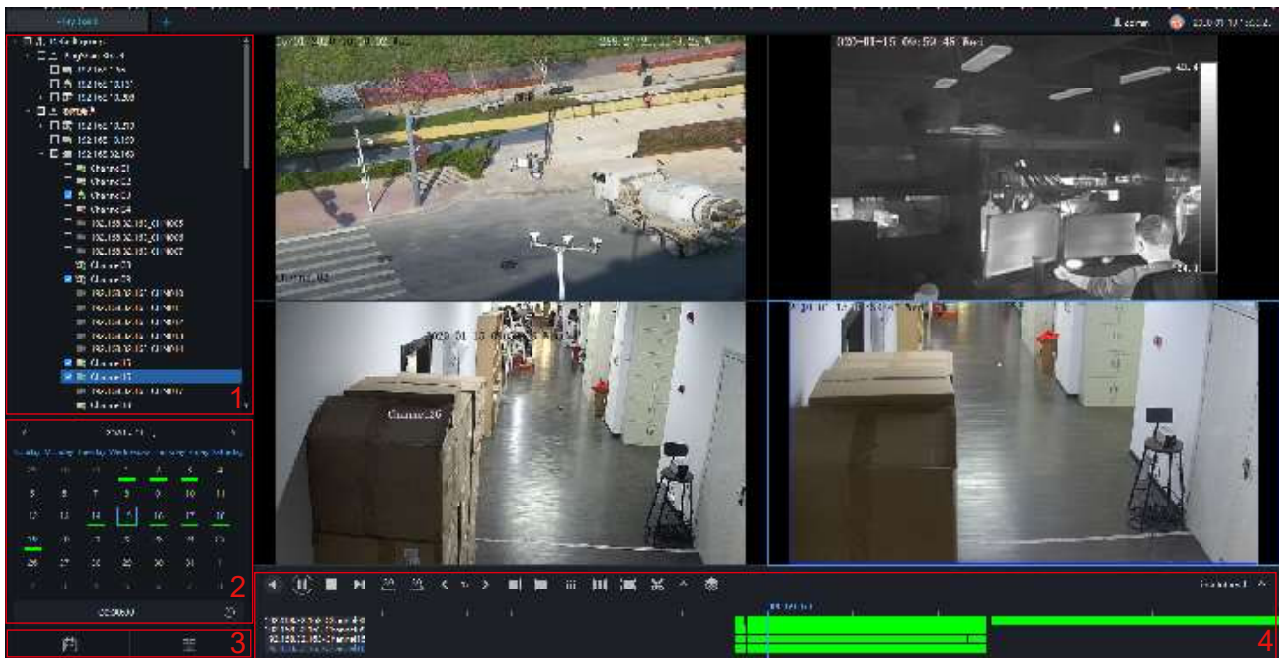



Table 9-1 Playback

| 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 |











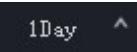
| No. | Function | Description |
|-----|-------------------|---|
| 4 | Toolbar operation | <p>Video operation: operation, timeline, display. For example</p> <p>, Rewind</p> <p>, Pause/Play</p> <p>, Stop</p> <p>, Next frame</p> <p>, Backward 30s/ Forward 30s</p> <p>, Several fold speed slow release, fast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

Figure 9-2 Batch backup

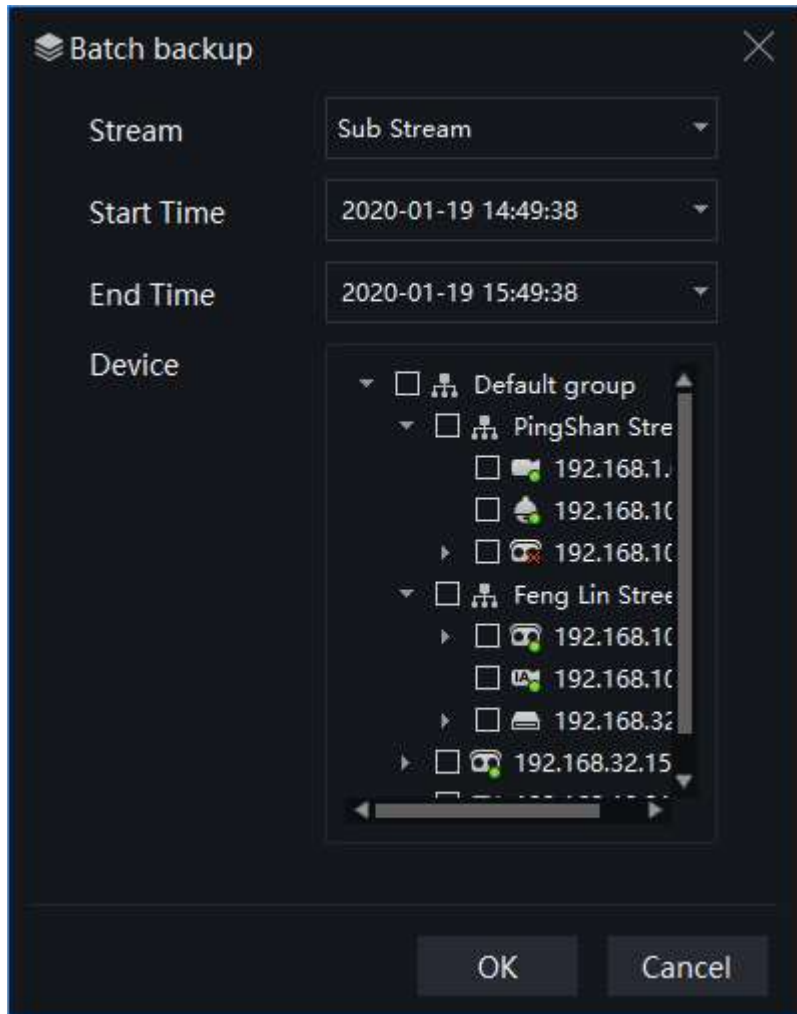


Figure 9-3 Video grid



9.1 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.

9.2 Back up the Device Video

Procedure:


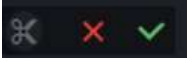
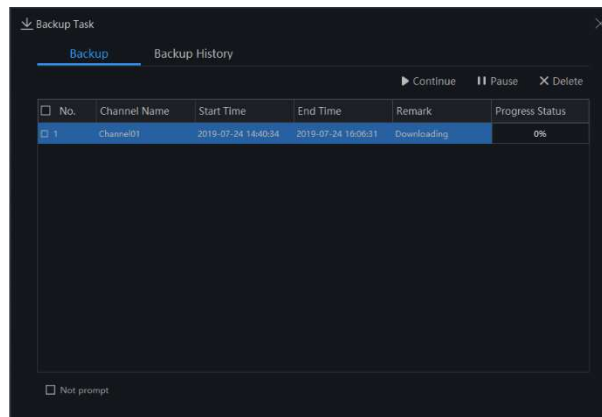
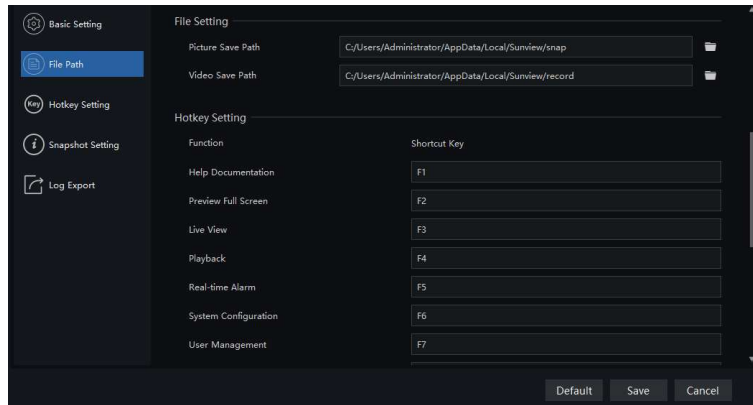
- Step 1 Click , the video starts to back up, the icon  shows, drag the time scale can copy the video quickly, download the video with MP4 format.
- Step 2 Click the checkmark to complete the selection and copy of the video, and jump to the download interface as shown in Figure 9-4

Figure 9-4 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 9-5 File path



10 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 10-1

Figure 10-1 Real-Time alarm interface

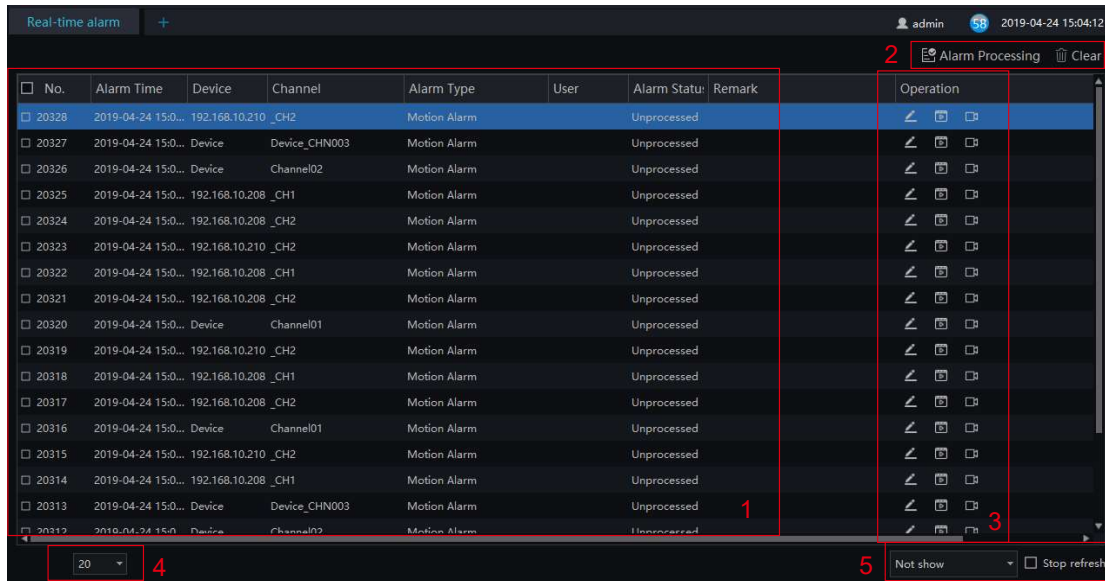



Table 10-1 Real-time alarm

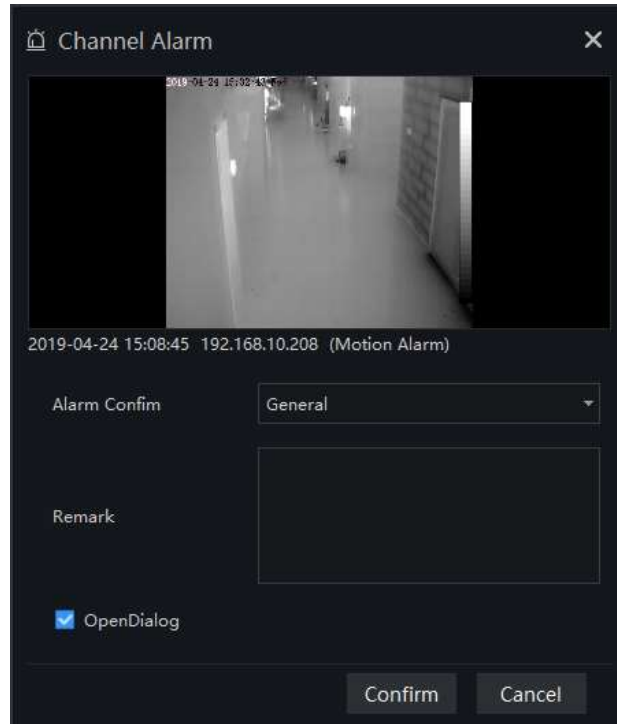
| No. | Function | Description |
|-----|----------------------------------|--|
| 1 | Alarm display area | Display alarm related information. |
| 2 | Alarm processing. | Process the specified alarm information, click 'clear', the current alarm will be cleared. |
| 3 | Alarm operation | Alarm processing, 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 10-2 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.

11 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 11-1

Figure 11-1 Alarm search interface

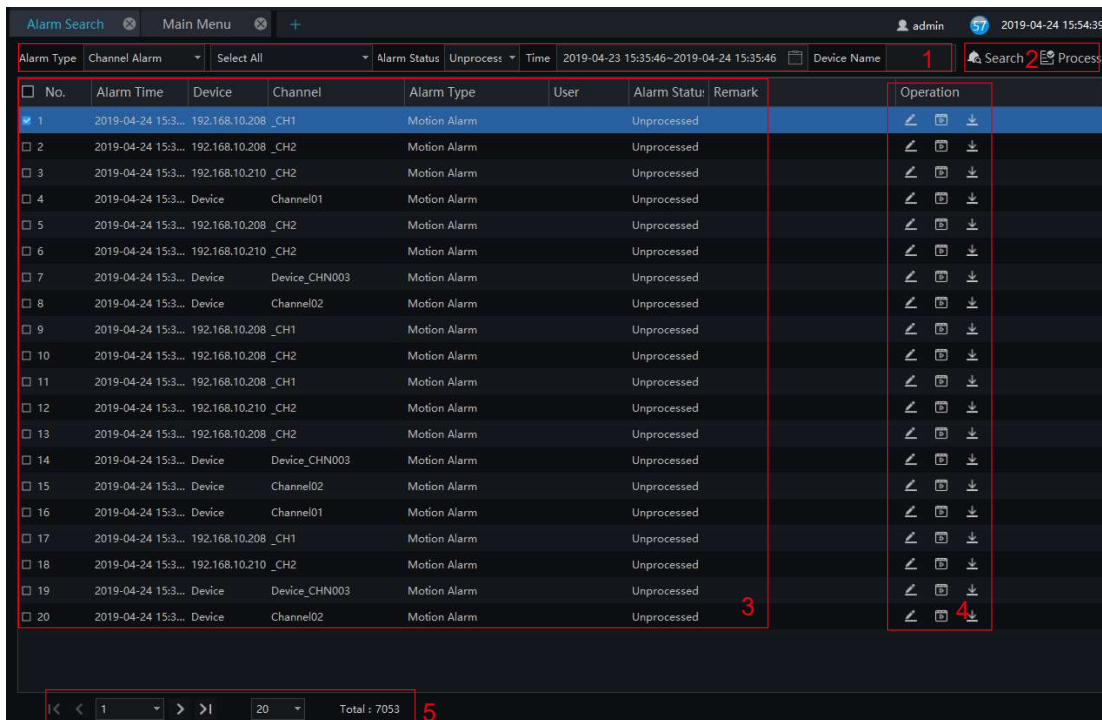


Table 11-1 Alarm search

| 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 |
| 4 | Operation | Edit, playback, process, backup task |

| No. | Function | Description |
|-----|-------------------|---|
| 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.

12 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 12-1.

Figure 12-1 Layout management interface

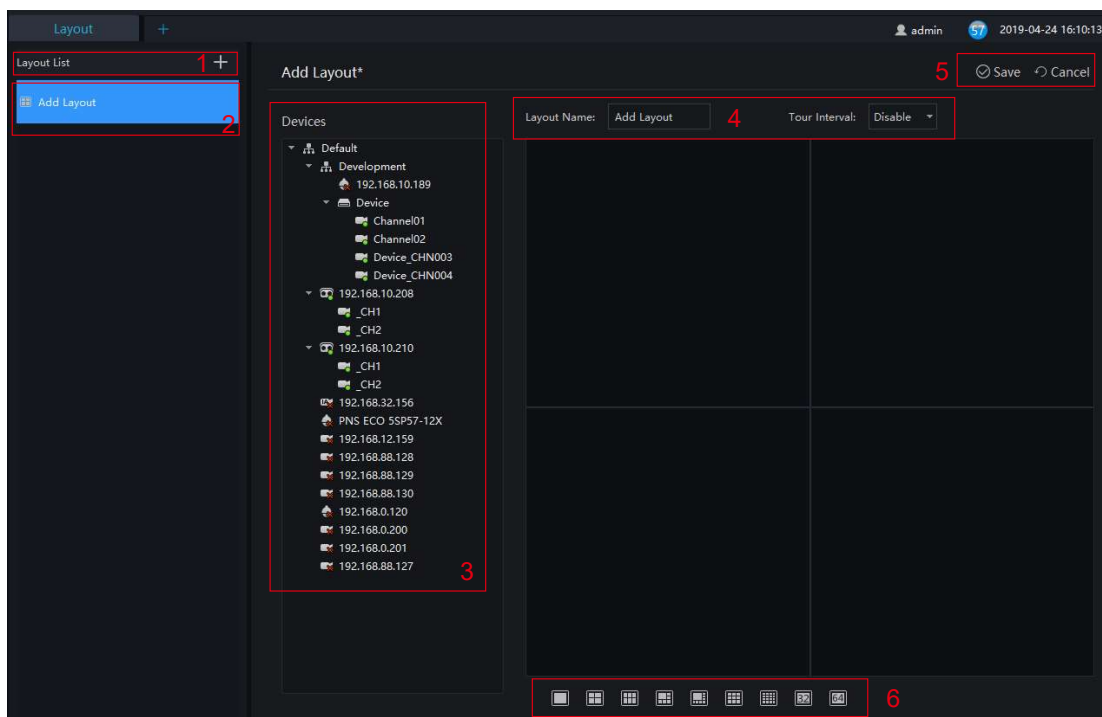




Table 12-1 Layout management

| No. | Function | Description |
|-----|-----------------------------|--|
| 1 | Create new layout | Click  , or the huge "+" icon to create new overall arrangement |
| 2 | Previous layout | Click the precious 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.

13 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 13-1.

NOTE

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

Figure 13-1 E-Map interface

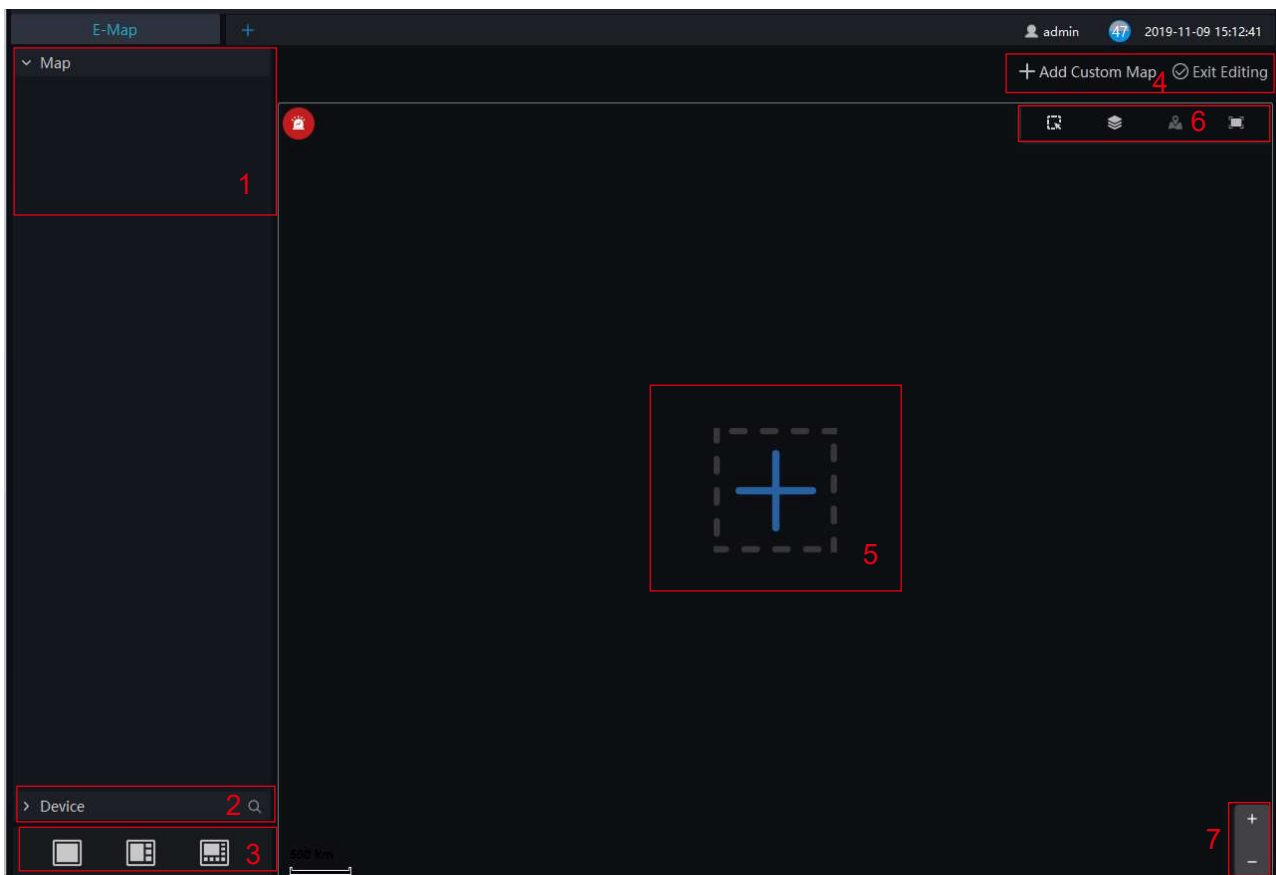



Table 13-1 E-map

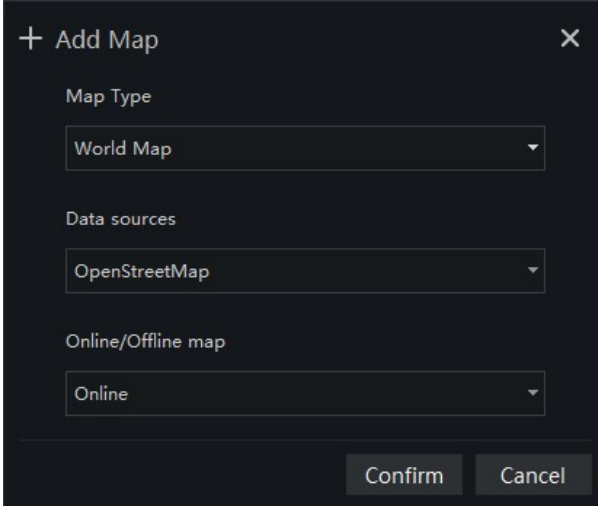
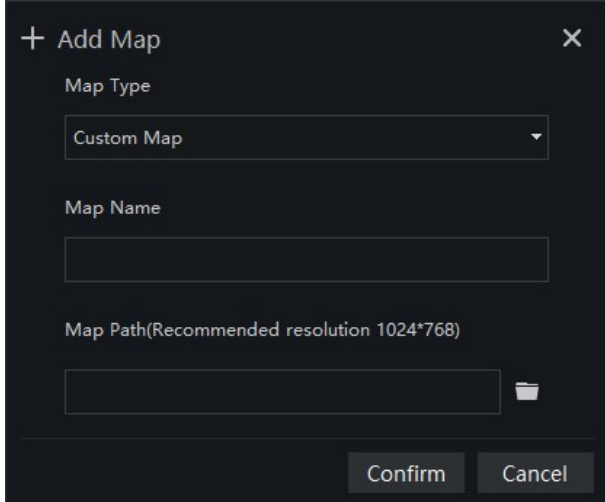
| No. | Function | Description |
|-----|------------------|---------------------------------|
| 1 | Map Display List | Setting map of devices' layout |
| 2 | Device | Details of map |
| 3 | Video Display | Map and layout of video display |

| No. | Function | Description |
|-----|-------------------|---------------------------------------|
| 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 | |

13.1 Add Electronic Map

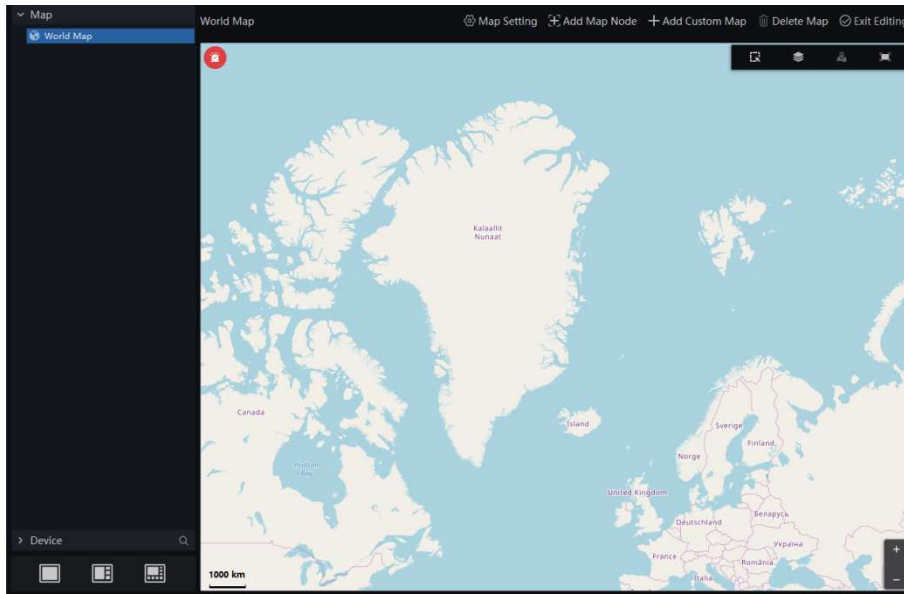
Procedure:

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 13-2 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,  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.

13.2 Edit Map

Step 1 Click **Edit** ton enter the edit status, 

Figure 13-3 Map setting

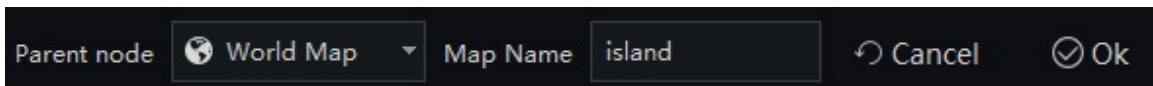


Figure 13-4 Add map node

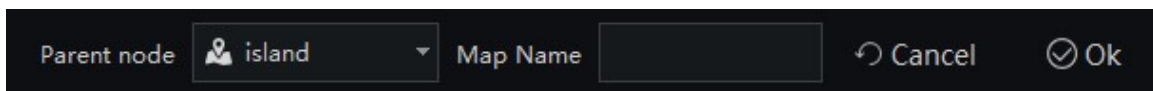


Figure 13-5 Custom Map

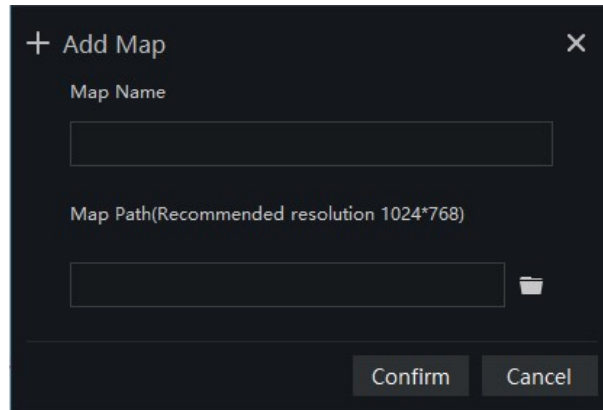
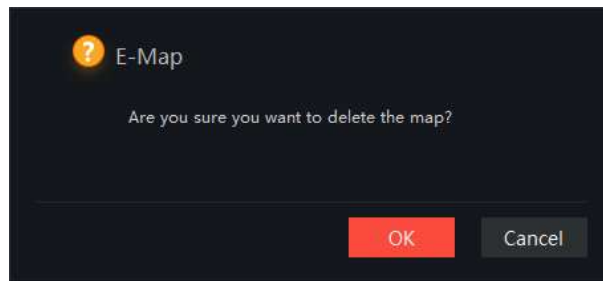



Figure 13-6 Delete map



Step 2 Click  to save the edit.

13.3 Deploy Monitoring Site

Procedure:

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

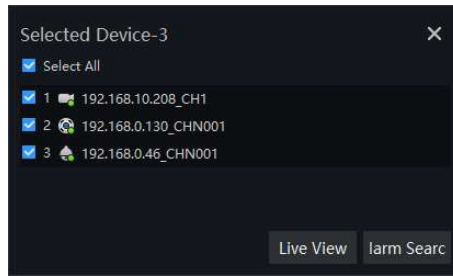
Step 2 Select the map for monitoring deployment

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

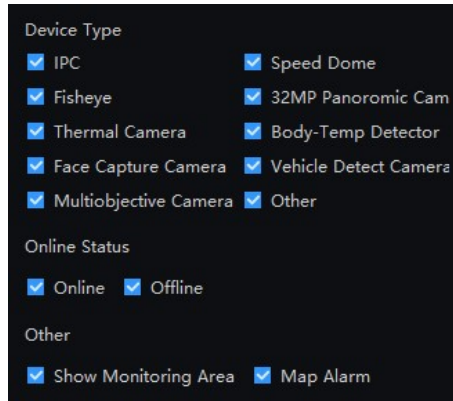
13.4 Quick Navigation


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.

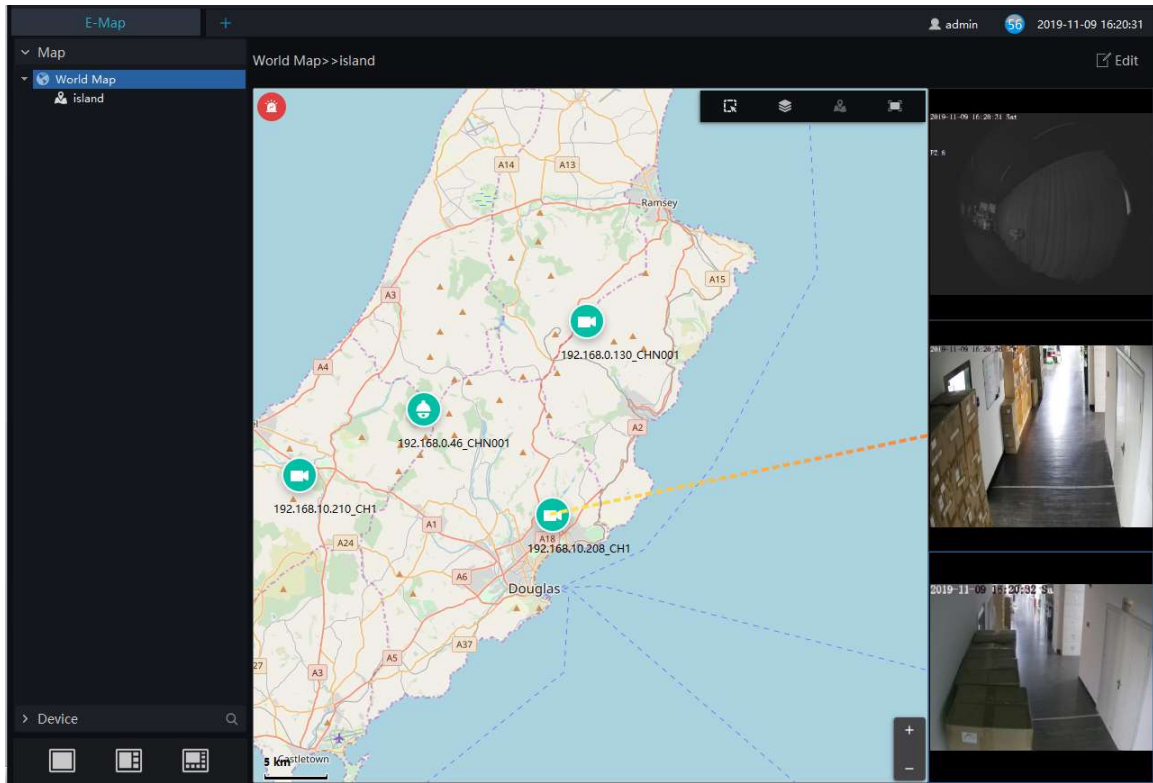


Step 4 If the alarm is generated, click  to position the camera, and double click to view the live video.

Step 5 Click  to view the alarm information.

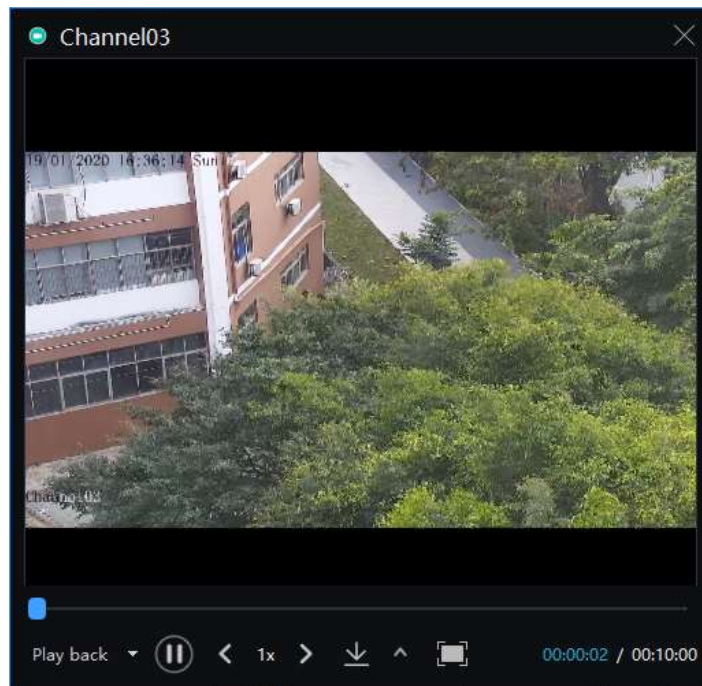
Step 6 Click  to set the live video split screen

Figure 13-7 Live video of map



Step 7 Click the shining camera to view the live video or playback, as shown in Figure 13-8.

Figure 13-8 Live video of alarming



14 Group

For surveillance of a certain scale, a 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 14-1

Figure 14-1 Organization interface

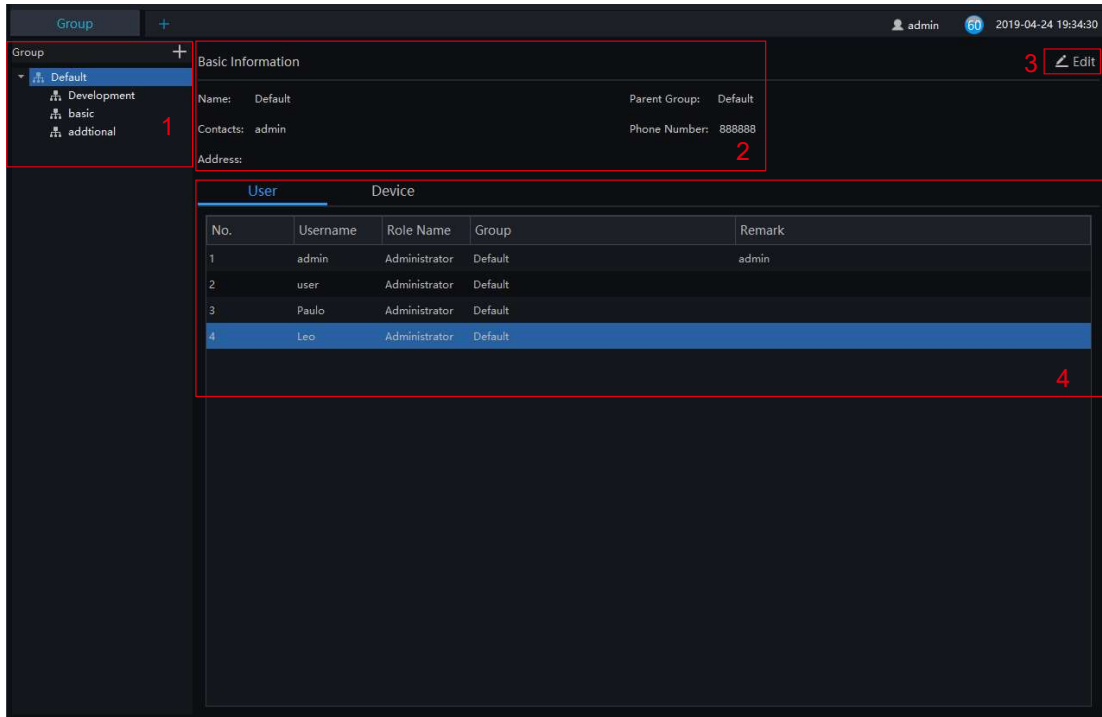



Table 14-1 Organization

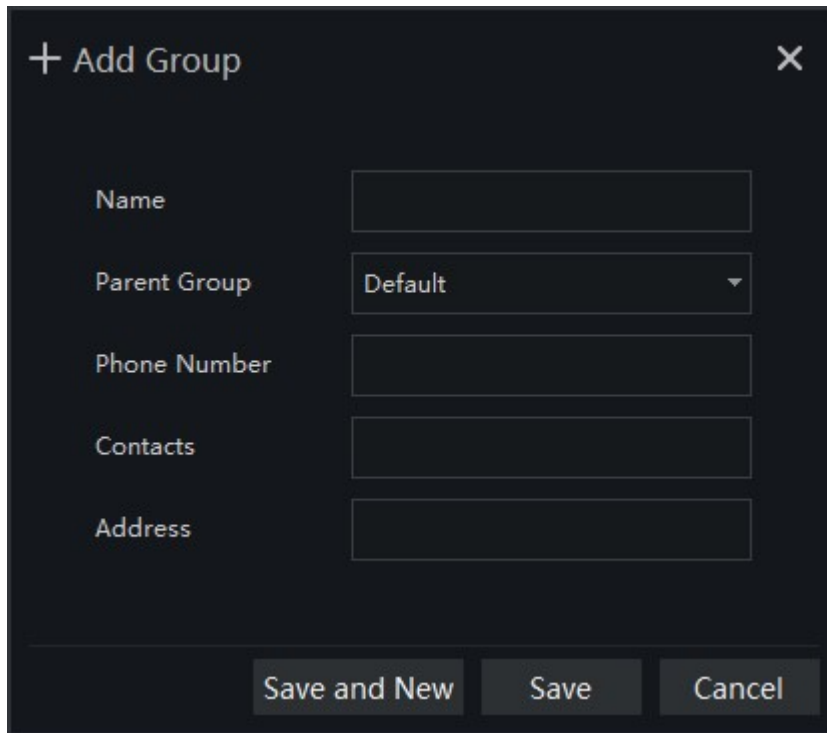
| No. | Function | Description |
|-----|--------------------------------|--|
| 1 | Group | Display group tree, new group can be added by clicking  |
| 2 | Basic Information | Display basic information of device or group |
| 3 | Edit | Basic information can be edited by clicking “Edit” |
| 4 | Display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

14.1 Add Group

Procedure:

Step 1 Click the add icon to add a new group. The screen shows as figure 14-2.

Figure 14-2 Add group



The screenshot shows a dark-themed dialog box titled '+ Add Group' with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- Name:** A text input field.
- Parent Group:** A dropdown menu with 'Default' selected.
- Phone Number:** A text input field.
- Contacts:** A text input field.
- Address:** A text input field.

At the bottom of the dialog, there are three buttons: 'Save and New', 'Save', and 'Cancel'.

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.

15 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 the figure 15-1

Figure 15-1 Log management interface

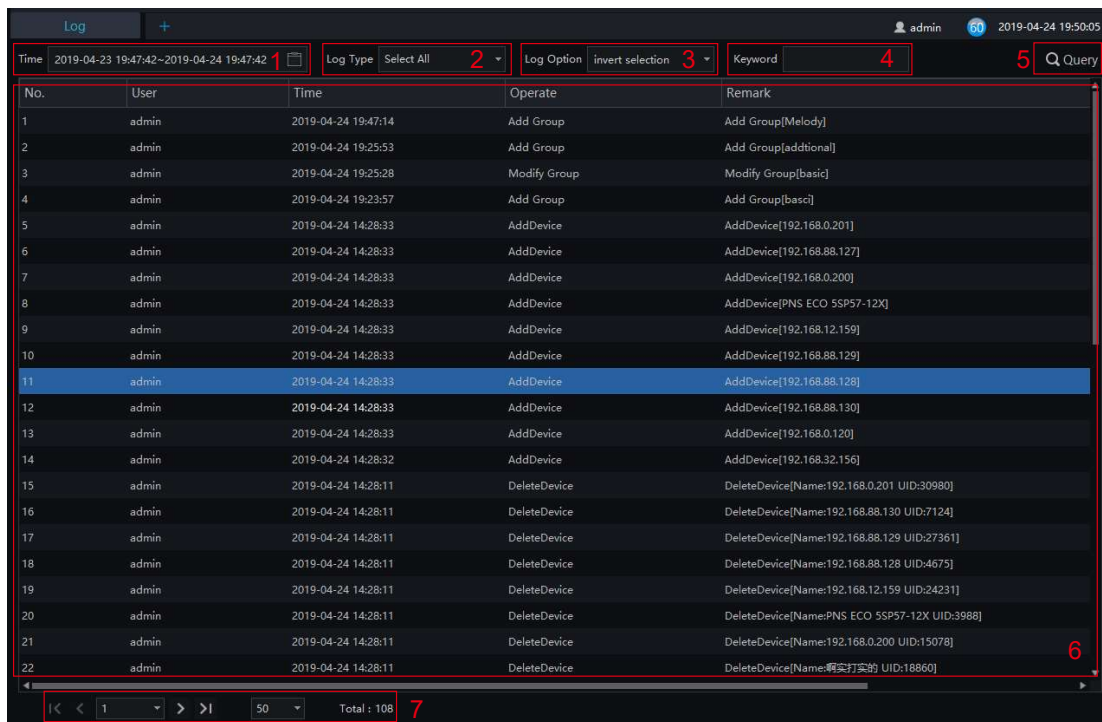


Table 15-1 Log management

| 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. |

| No. | Functions | Description |
|-----|-------------------|---|
| 7 | Interface display | Show the current page of logs, and the page displays the number of logs, switch to next page. |

16 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 the figure 16-1.

Figure 16-1 Report statistics interface

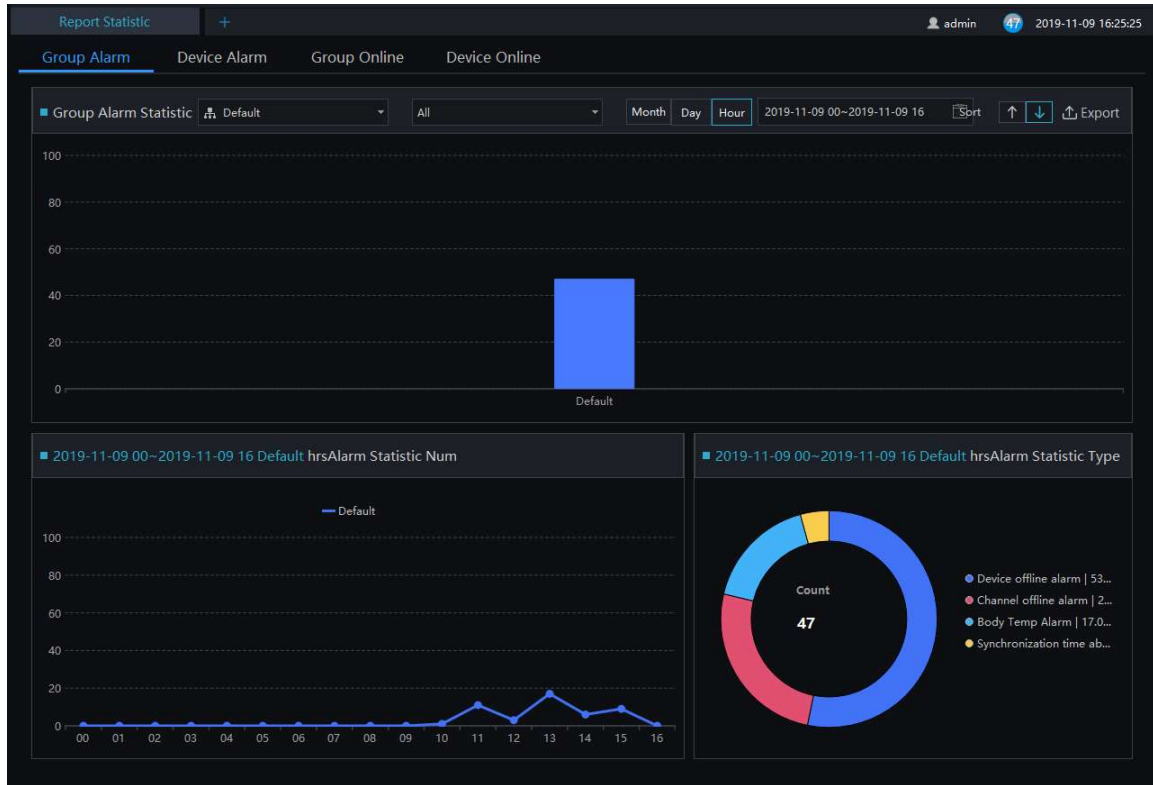
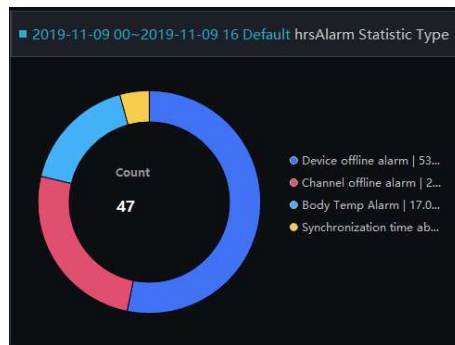


Figure 16-1 Alarm type statistics



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

17 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.




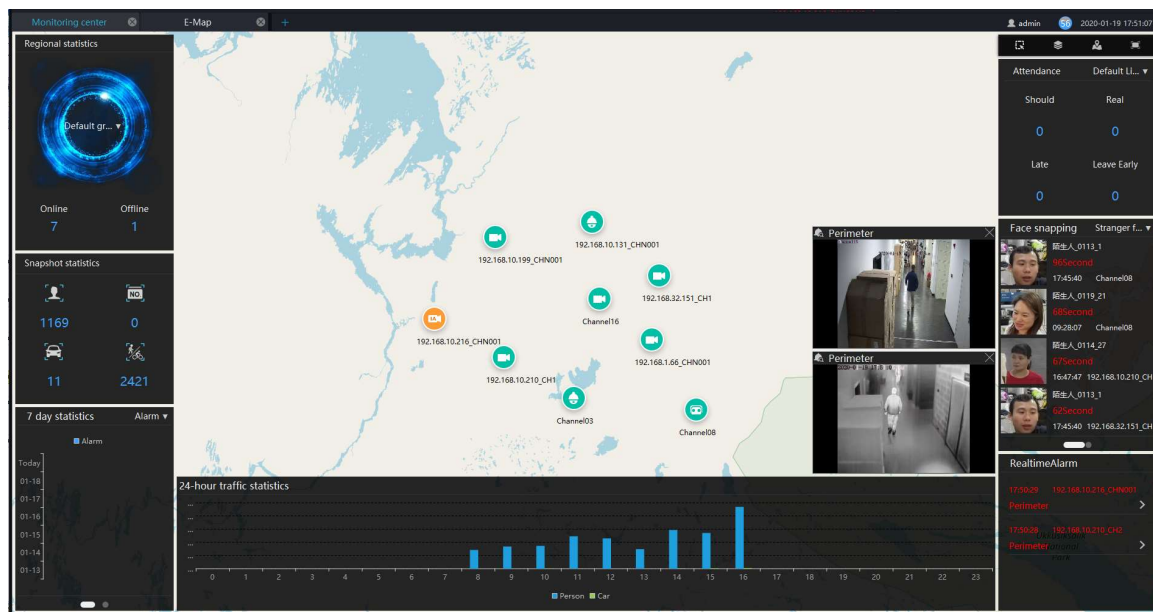
On the main menu page, click  to enter the detailed page, as shown in Figure 17-1.

Figure 17-1 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.

18 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 18-1.

Figure 18-1 Device configuration interface

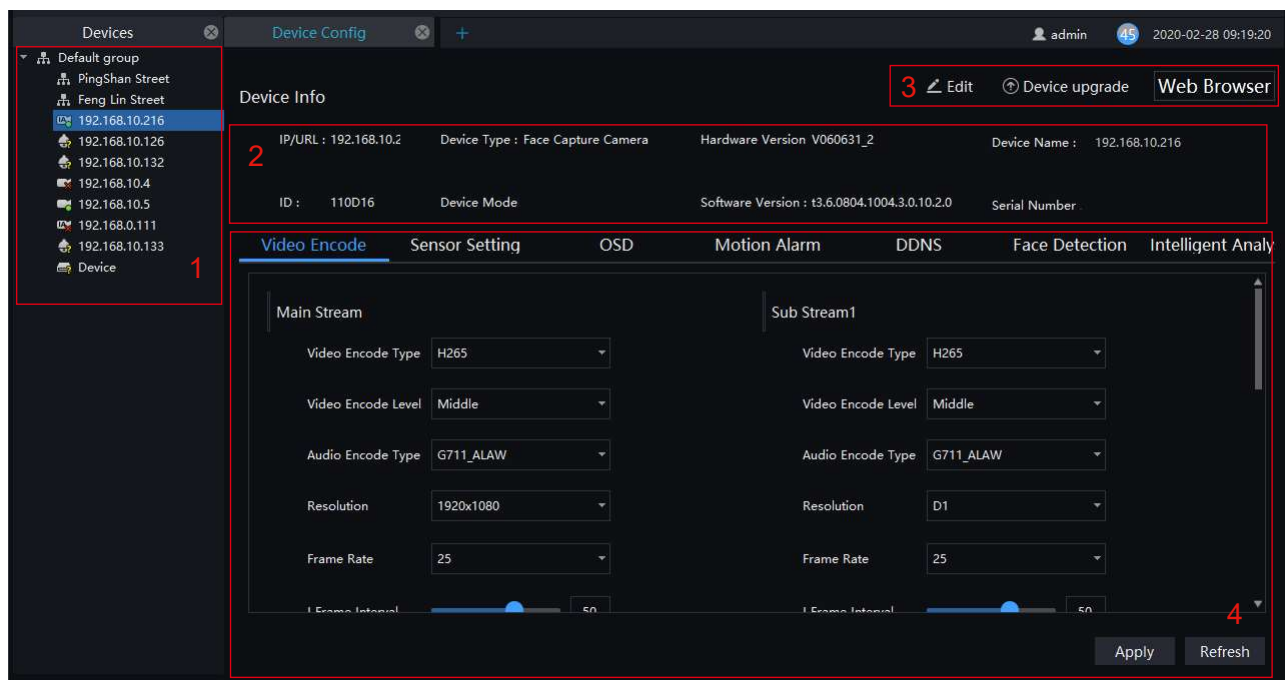


Table 18-1 Device configuration

| No. | Function | Description |
|-----|------------------------|---|
| 1 | Organization structure | Show organizational structure information |
| 2 | Basic Information | Show basic information |

| No. | Function | Description |
|-----|------------------------------------|---|
| 3 | Edit / Device upgrade/ Link Web | <p>Edit : edit the device information</p> <p>Device upgrade: click to upgrade the device immediately.</p> <p>Link web: user can login to the device's web directly.</p> |
| 4 | Device configuration information | Show and set the device configuration information, click "Apply" to save the information. |

19 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 18-1.

Figure 19-1 Servers management interface

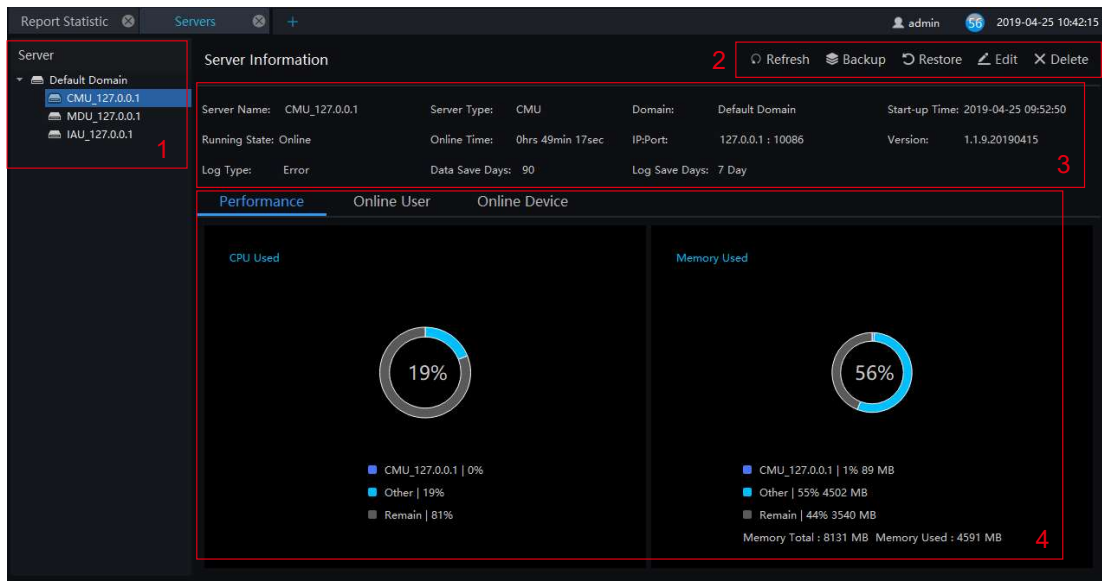


Table 19-1 Servers management

| No. | Function | Description |
|-----|--|--|
| 1 | Server | Default Server Domain, CMU/MDU/IAU Server |
| 2 | Basic information | Basic information displays 1. At the main menu interface, click on the server management screen to display the device configuration screen as displayed in Figure 17-1. 2. 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 |

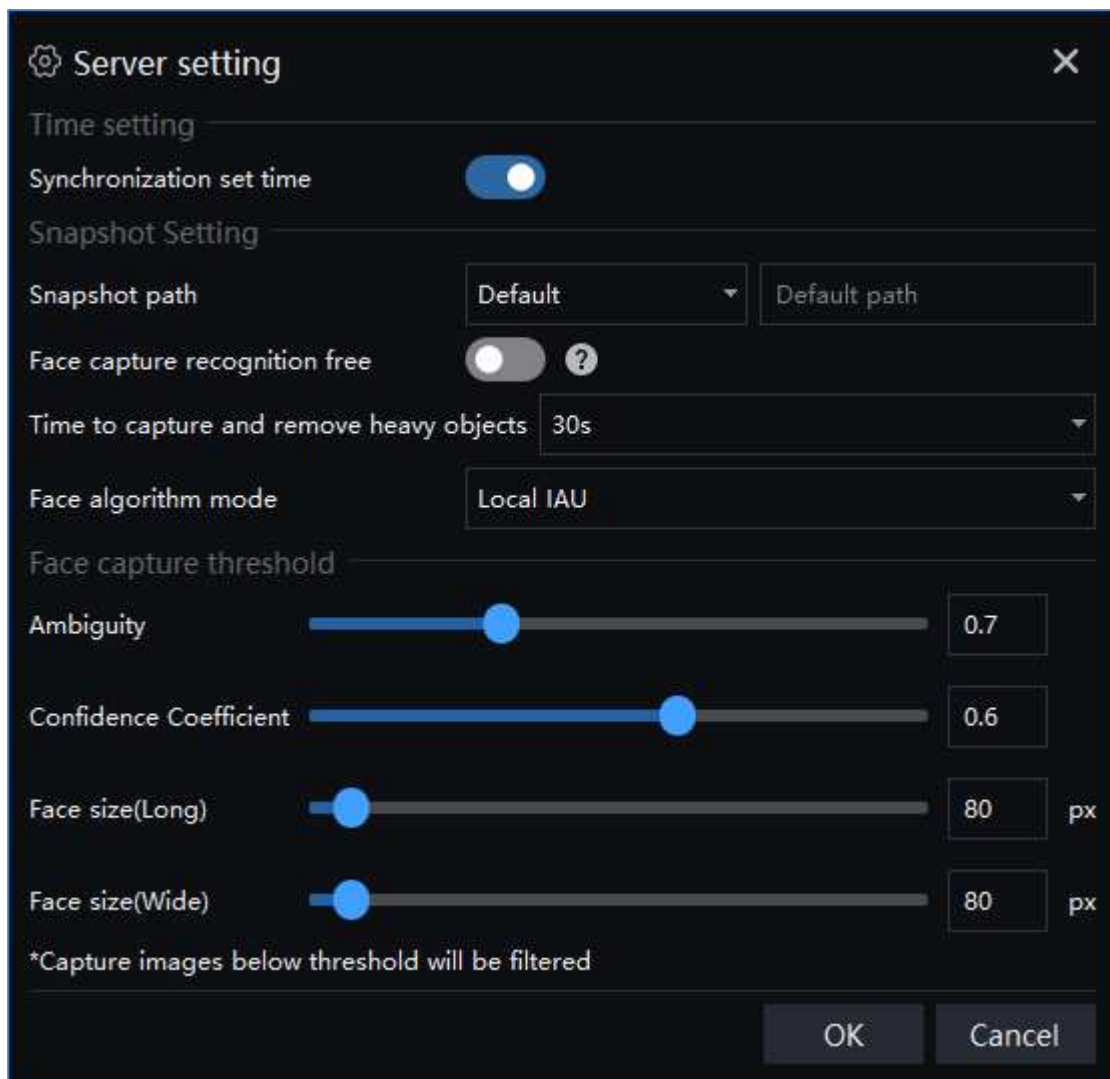
19.1 Central Management Server

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 19-2.

Figure 19-2 Server Setting



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

Step 2 Set the snapshot of the duplication time of removing the similarity capture. In the drop-down list, 5S, 10S, 15S, 30S.

Step 3 Snapshot saving path. It is best not to change the default path. Only change it if you have special needs.

Step 4 The face algorithm mode can choose local IAU and face algorithm box.

Step 5 Face capture threshold, ambiguity, confidence coefficient, face size length and width.

Step 6 Click "OK" to save the settings.

 **NOTE**

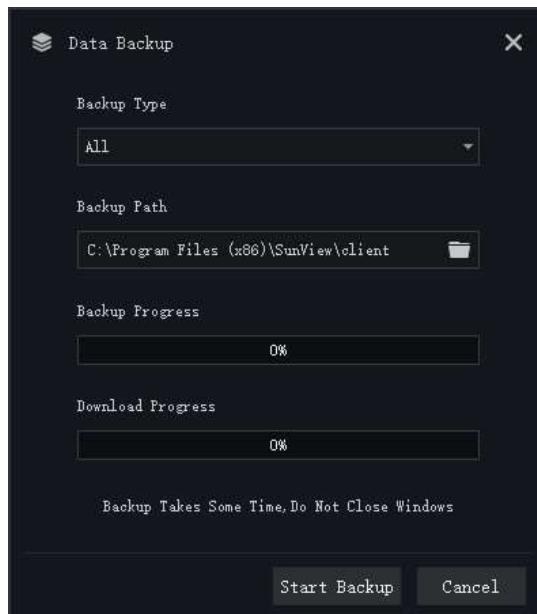
Enable the face capture recognition free, the face recognition device will not recognize and compare faces, and all captured faces are automatically recognized as strangers, reducing performance consumption.

19.2 Data Backup

Procedure:

Step 1 Click “backup” button at right upper of screen, then the pop-up window appears, as shown in Figure 19-1 ;

Figure 19-3 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.

19.3 Date Recovery


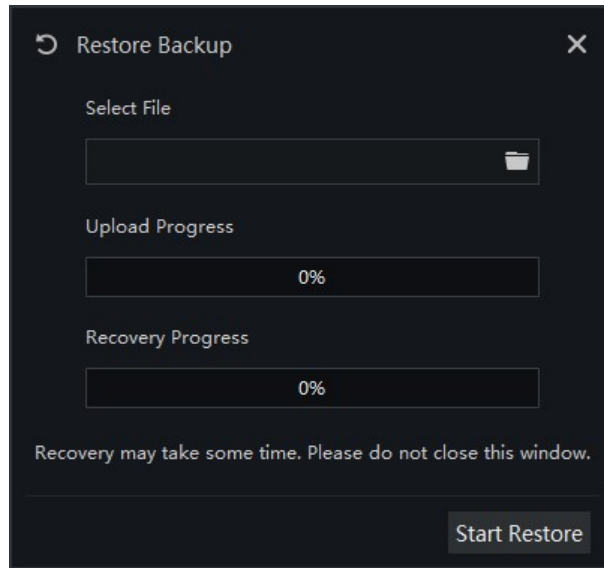
Click  and the pop-up window shows as Figure 19-2, choose the download data

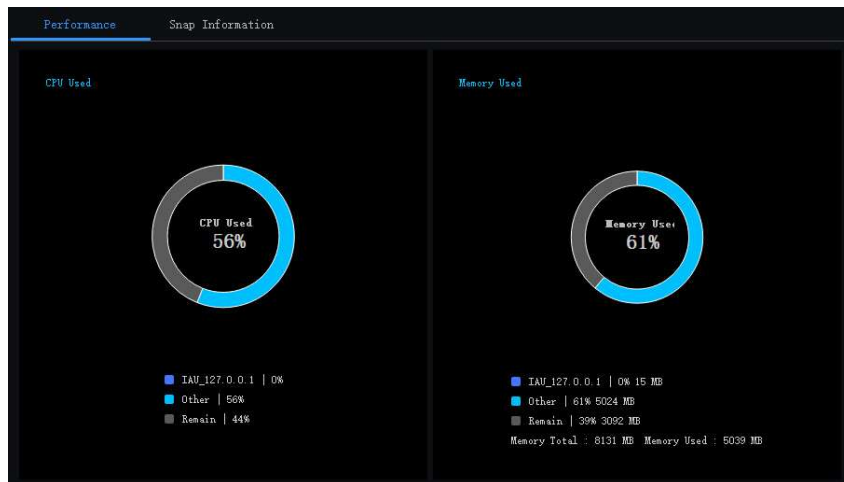
Figure 19-4 Restore backup



19.4 Media Distribution Server

19.4.1 Performance

Figure 19-5 Performance



19.4.2 Distribution Status

Figure 19-6 Distribution Status

| Performance | | Dispense Video | | | |
|-------------|-------------|-----------------|----------------|-----------------|---------------------|
| 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 |

19.5 Intelligent Analysis Server

19.5.1 Performance

Please refer to chapter 18.2.1

19.5.2 Snap Information



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 19-7.

Figure 19-7 Snap information

Server
Refresh Edit Delete

- Default Domain
- CMU_127.0.0.1
- MDU_127.0.0.1
- IAU_127.0.0.1

Server Information

| | | | |
|----------------------------|-------------------------------|----------------------------|------------------------------------|
| 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 Snap Information

| 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 |

< 1 >
20
Total: 3

20 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.



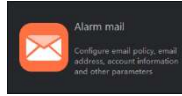

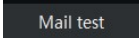

On the main menu page, click  to enter the detailed page, as shown in Figure 20-1.

Figure 20-1 Alarm mail

The screenshot shows a web interface for configuring alarm mail. At the top, there are tabs for 'Report Statistic', 'Device Config', and 'Alarm mail'. The 'Alarm mail' tab is active. Below the tabs, there is a header 'Alarm mail' and a sidebar with a 'Strategy' section containing a '+ Strategy1' item. The main area is titled 'Strategy1' and contains several input fields: 'Strategy name' (filled with 'Strategy1'), 'SMTP Server address', 'SMTP Server port' (filled with '25'), 'Username', 'Password', 'Sender', 'Accessory image quality' (dropdown menu set to 'Low'), and 'Transfer mode' (dropdown menu set to 'No Encryption'). There is also a 'Recipient1' field with a '+' button next to it. At the bottom of the form, there is a 'Mail test' button and an 'Apply' button.

- 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.

21 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 20-1.

Figure 21-1 Face recognition

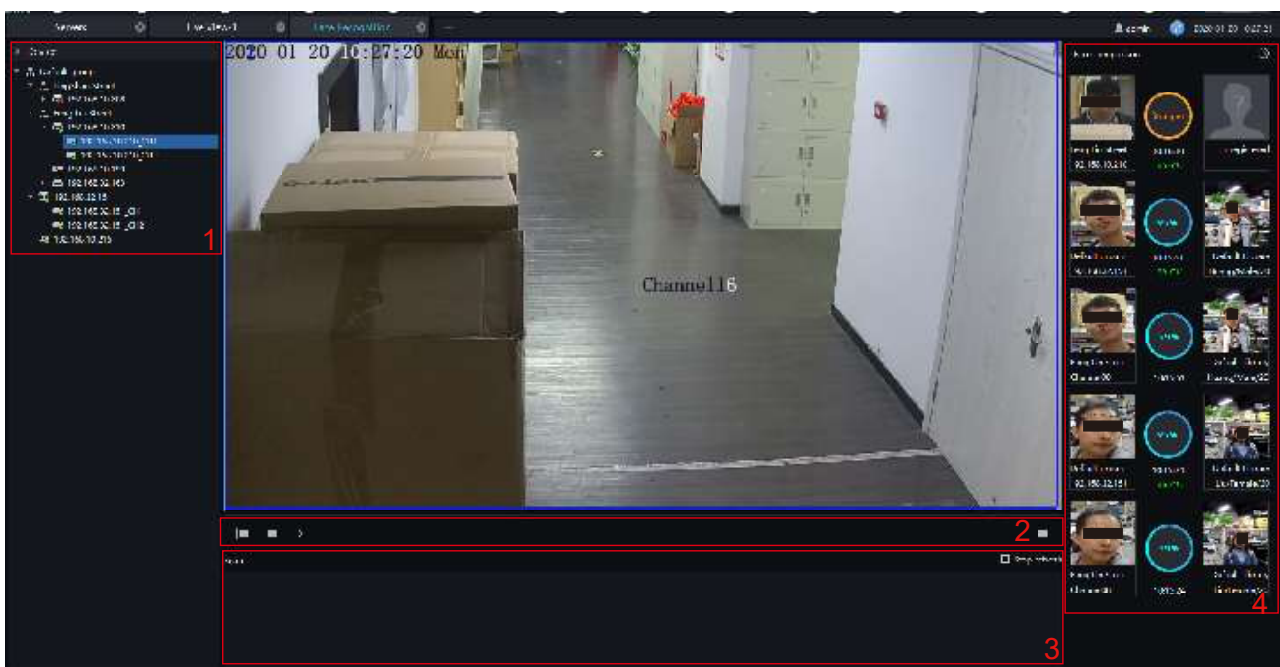
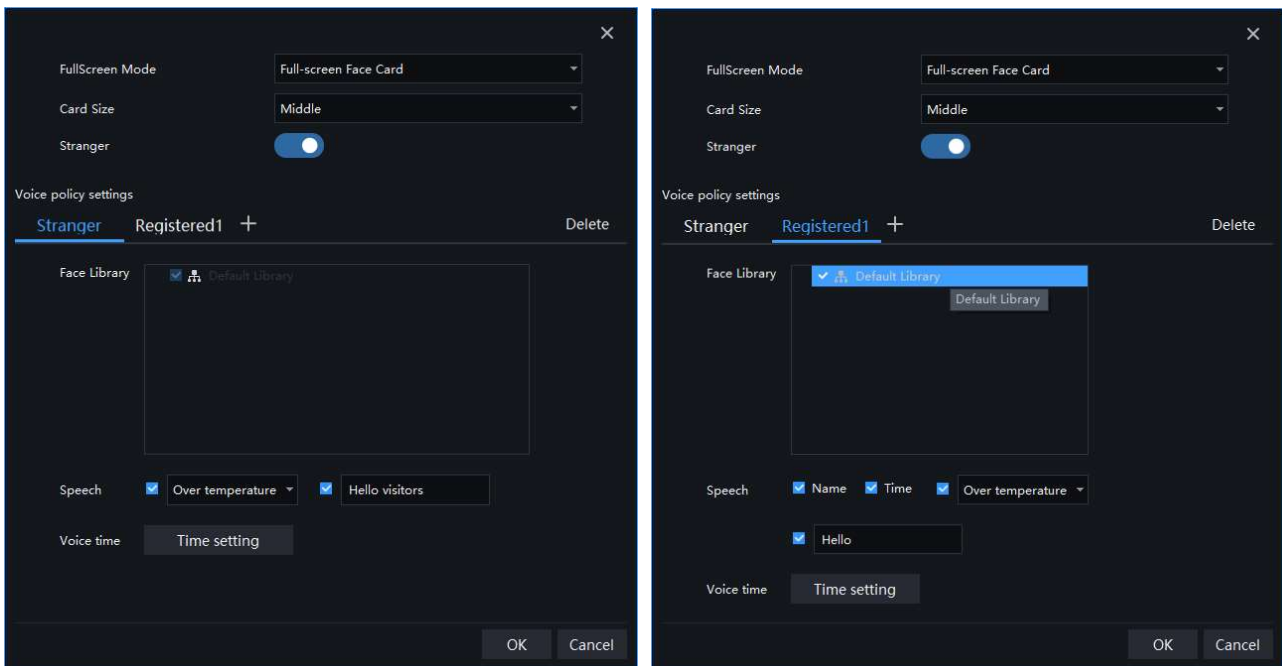


Table 21-1 Face recognition

| 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. |
| 4 | Face comparison | The snapshot face compare with the library. Set the broadcast. |

- 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 21-2 Voice announcement setting



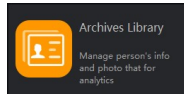
Procedure:

- 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.

22 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 19-1

NOTE

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

Figure 22-1 Archives library

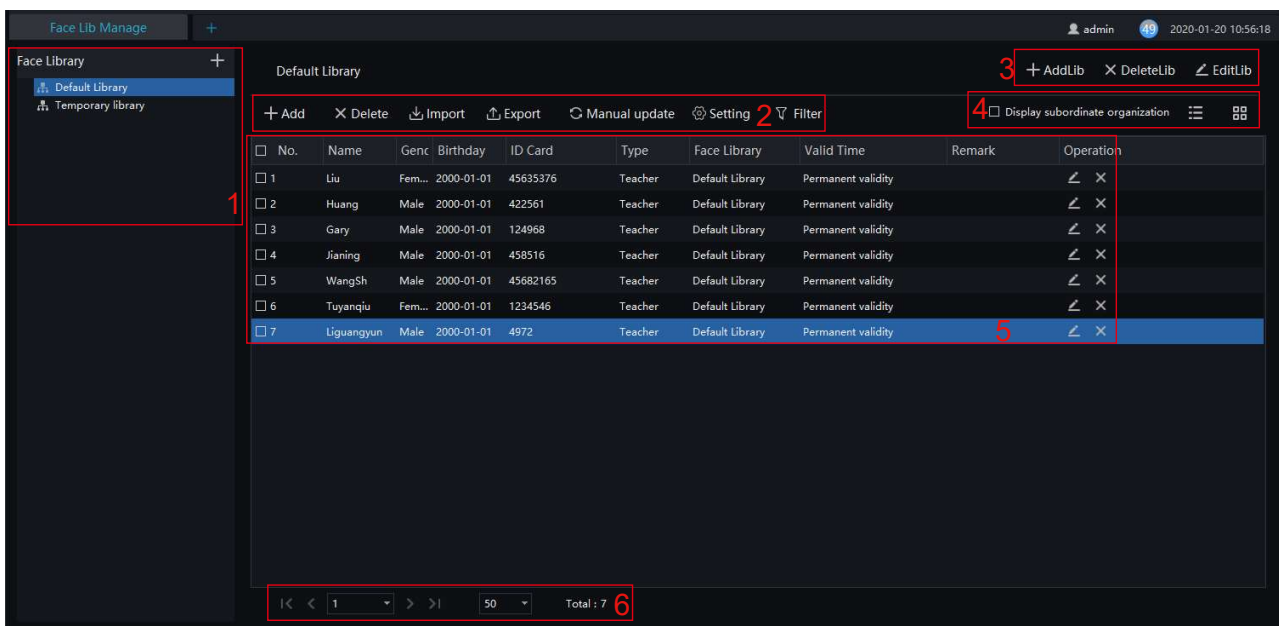
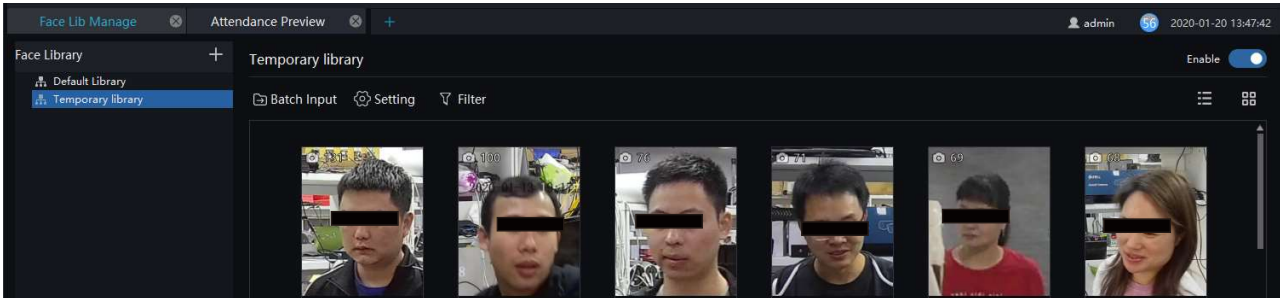


Table 22-1 Face library


| No. | Function | Description |
|-----|------------------------------------|--|
| 1 | Face Library/license plate library | Face library or license plate library default group/add library |
| 2 | Basic operation of person | Add, delete, import, exporting, manual update and filter person. |
| 3 | Basic operation of library | Add, delete, and edit library |
| 4 | Arrangement | Tick or not display subordinate organization. List mode, card mode |
| 5 | Display information | Face library basic information display |


| No. | Function | Description |
|-----|------------------|---|
| 6 | Page information | Page number, number of pages per page, total number of showing. Switch to next page |

Figure 22-2 Temporary library



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.

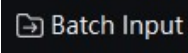
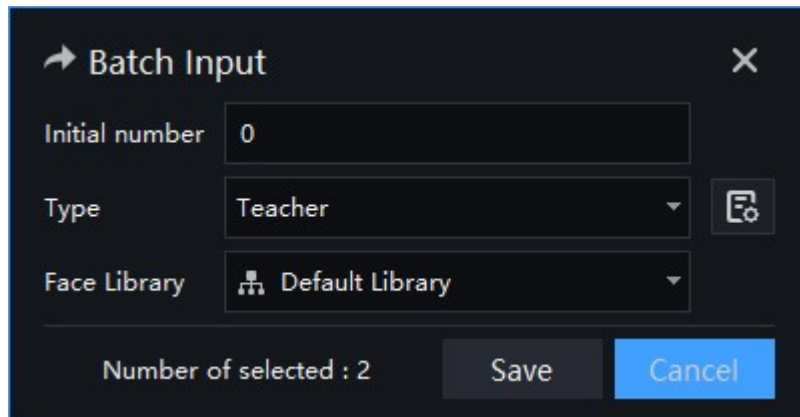
Click  to enter the batch input interface to add the library, as shown in Figure 22-3.

Figure 22-3 Batch input



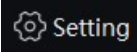
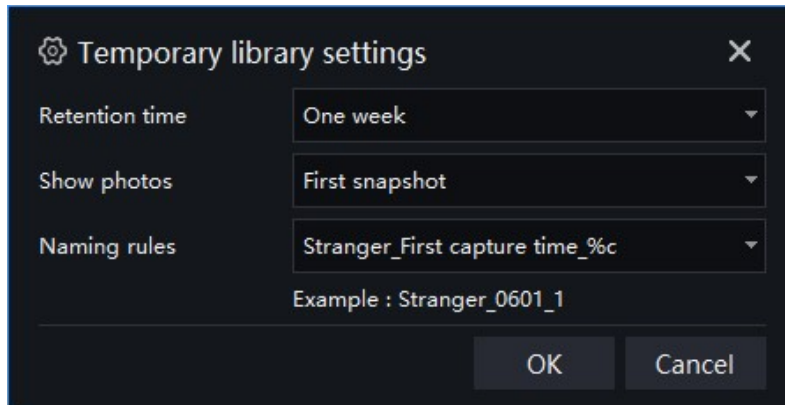
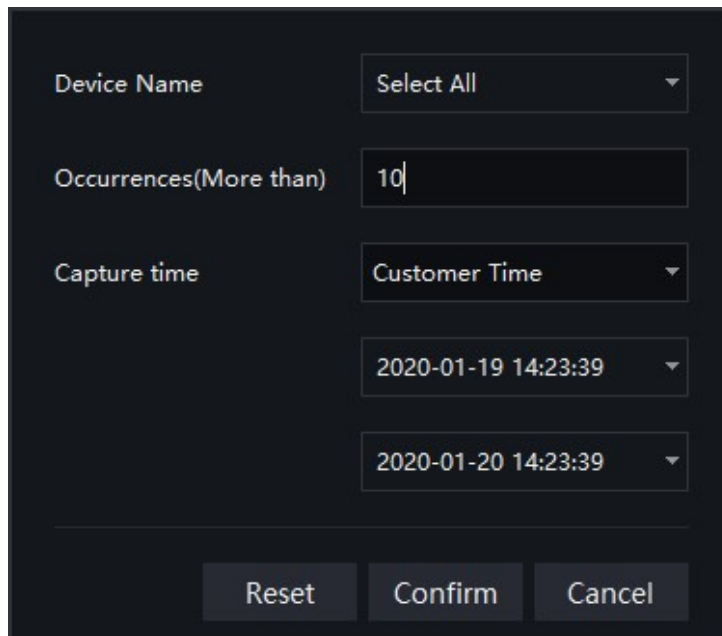
Click  to set temporary library settings, as shown in Figure 22-5

Figure 22-4 Temporary library setting



Click  Filter to set filter, as shown in Figure 22-5.

Figure 22-5 Filter



The temporary library is live update.

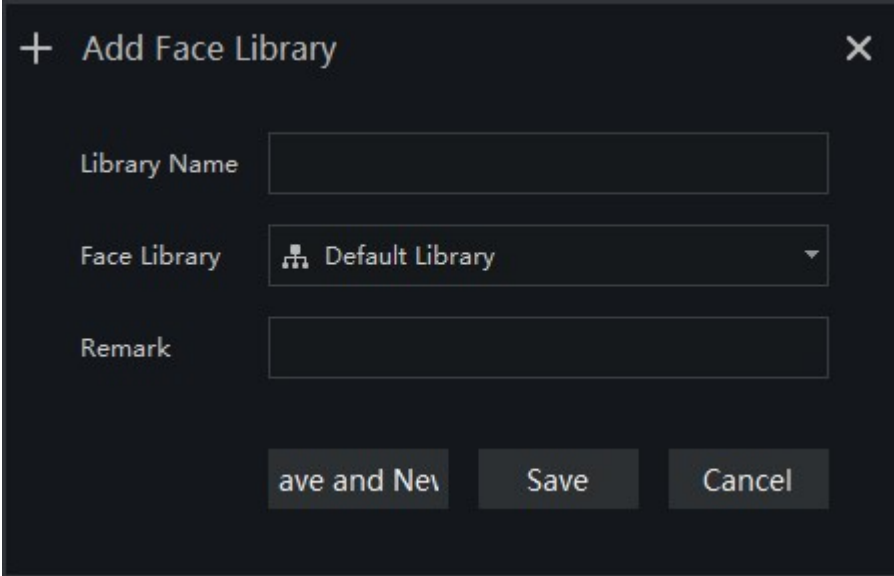
22.1 Add Face Library

Procedure:

Step 1 Click  to add face library.

Step 2 Input library name, remark, choose library , as shown in Figure 22-6.

Figure 22-6 Add face library



The screenshot shows a dark-themed dialog box titled "Add Face Library". It features a plus sign icon in the top left and a close icon (X) in the top right. The dialog contains three input fields: "Library Name" (a text box), "Face Library" (a dropdown menu currently showing "Default Library"), and "Remark" (a text box). At the bottom of the dialog, there are three buttons: "Save and New", "Save", and "Cancel".

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

22.1.1 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 22-7.

Figure 22-7 Person enroll

The screenshot shows a 'Person Enroll' form with the following fields and values:

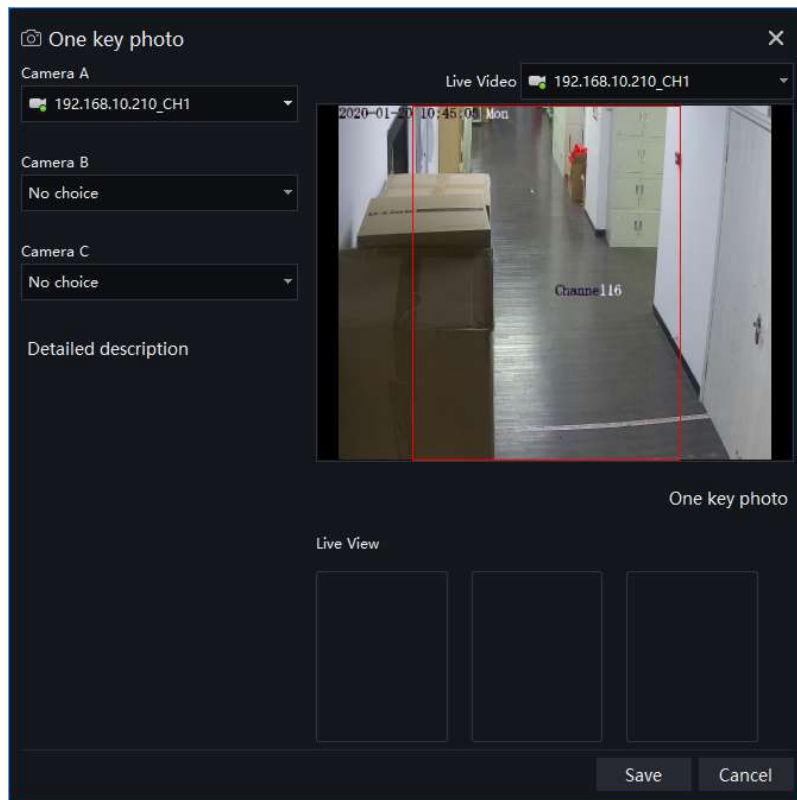
- Name: [Empty text box]
- Gender: Male
- Birthday: 2000-01-01
- ID Card: [Empty text box]
- Type: Teacher
- Face Library: Default Library
- Valid Time: Permanent validity
- Remark: [Empty text box]
- Picture: Five image slots, the first containing a '+' icon.

Below the picture section are two buttons: 'Select File' and 'One key photo'. At the bottom of the form are three buttons: 'Save and New', 'Save', and 'Cancel'.

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

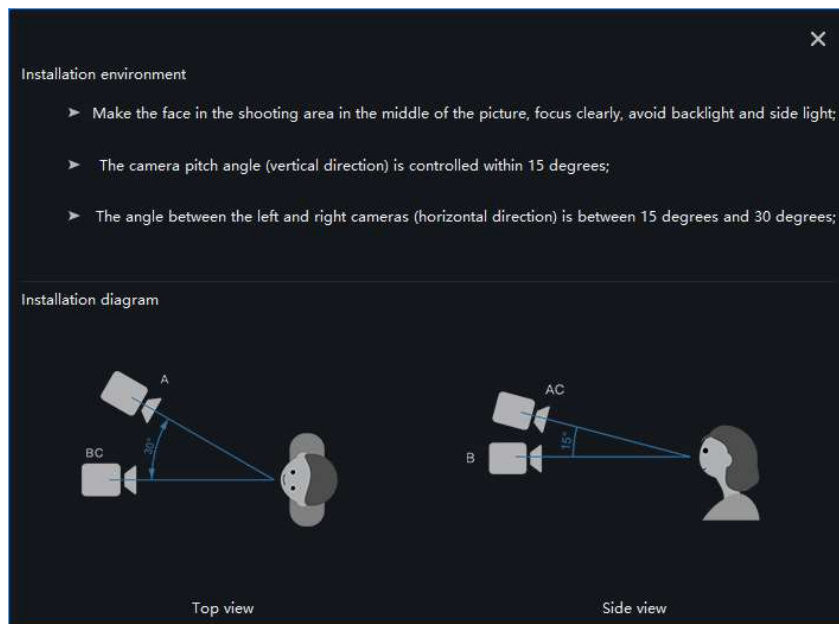
Step 5 Click “One key photo” to enter capture person immediately, as shown in

Figure 22-8 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 22-9.

Figure 22-9 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.

22.1.2 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.

22.1.3 Batch Export

Procedure:

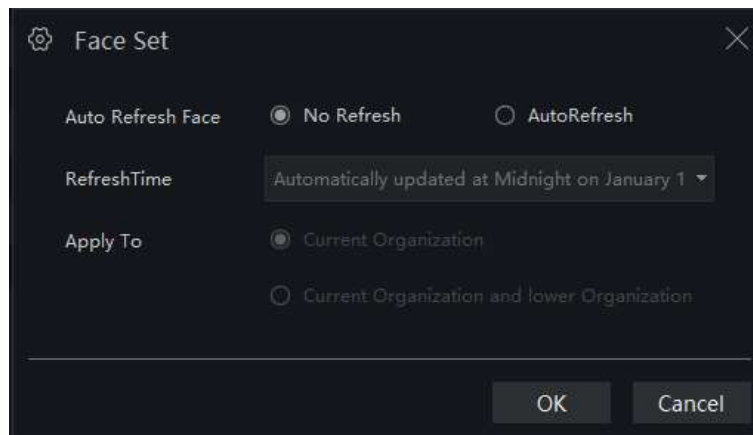
- Step 1 Click “Export” to get into the Export interface.
- Step 2 Choose the save path, and click “ save” to save the settings.

22.1.4 Face setting

Procedure:

- Step 1 Click “Setting” to get into the face setting interface, as shown in Figure 22-10.

Figure 22-10 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.

22.1.5 Filter

Procedure:

- Step 1 Click “Filter” to get into the filter interface, as shown in Figure 22-11.

Figure 22-11 Filter setting

The image shows a dark-themed dialog box for filter settings. It contains five input fields and three buttons. The fields are: 'Name' (a text input field), 'Gender' (a dropdown menu with 'ALL' selected), 'Type' (a dropdown menu with 'ALL' selected), 'ID Card' (a text input field), and 'Picture' (a dropdown menu with 'ALL' selected). At the bottom of the dialog, there are three buttons: 'Reset', 'Confirm', and 'Cancel'.

Step 2 Input the name need to filter.

Step 3 Choose the gender , type and photo.

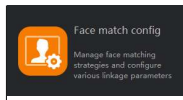
Step 4 Click “Confirm” to save the settings.

23 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 23-1.

Figure 23-1 Face Match configuration interface

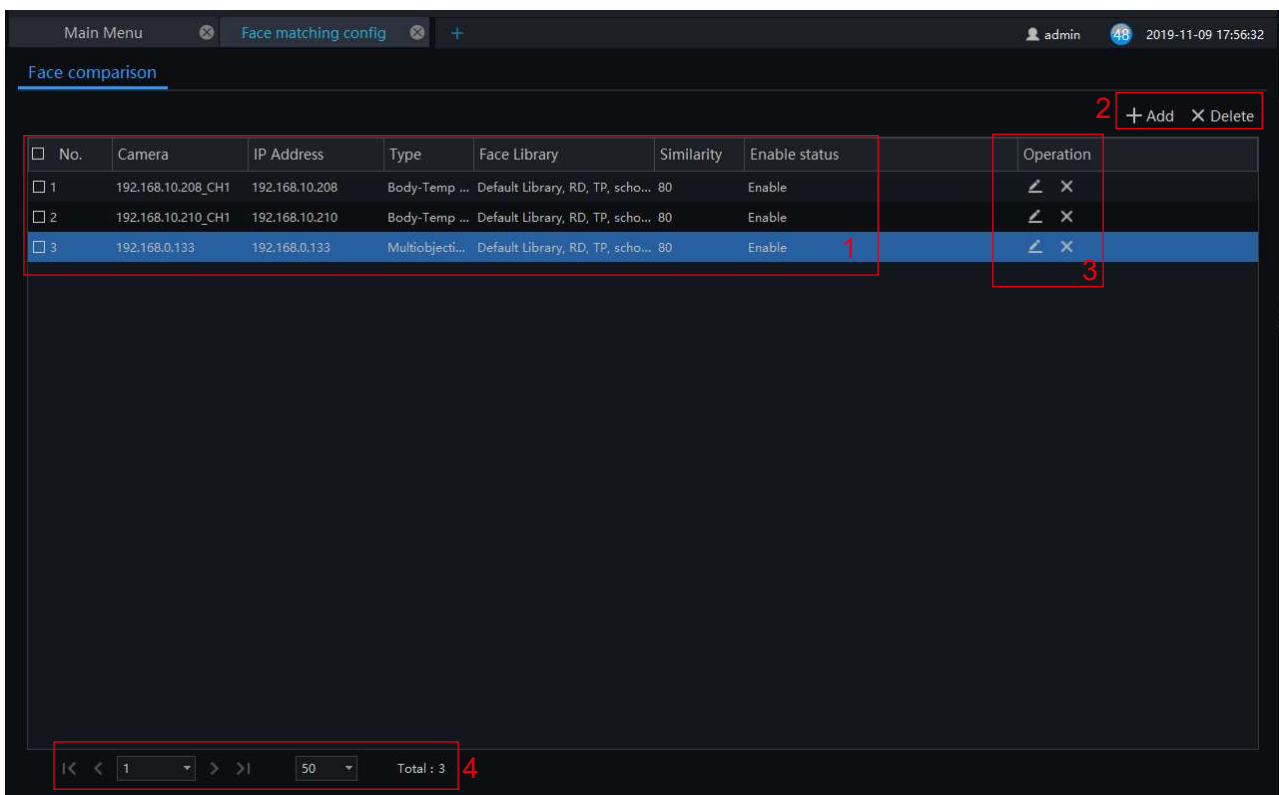


Table 23-1 Strategy configuration

| 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. |

| No. | Function | Description |
|-----|------------------|---|
| 4 | Page information | Page number, number of pages per page, total Switch to next page |

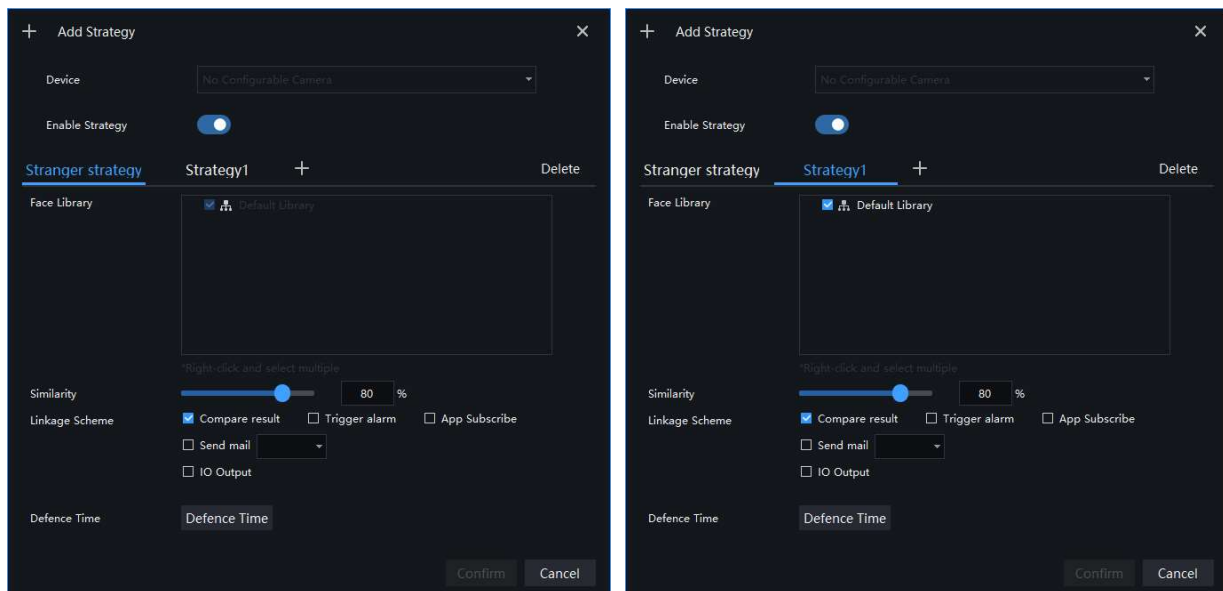
23.1 Face Comparison Configuration

Procedure:

Step 1 Click icon of strategy configuration in new page, into the interface as figure 20-1 .

Step 2 Click “Add” to get into new face comparison, as shown in figure.

Figure 23-2 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.

24 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 24-1 Face search

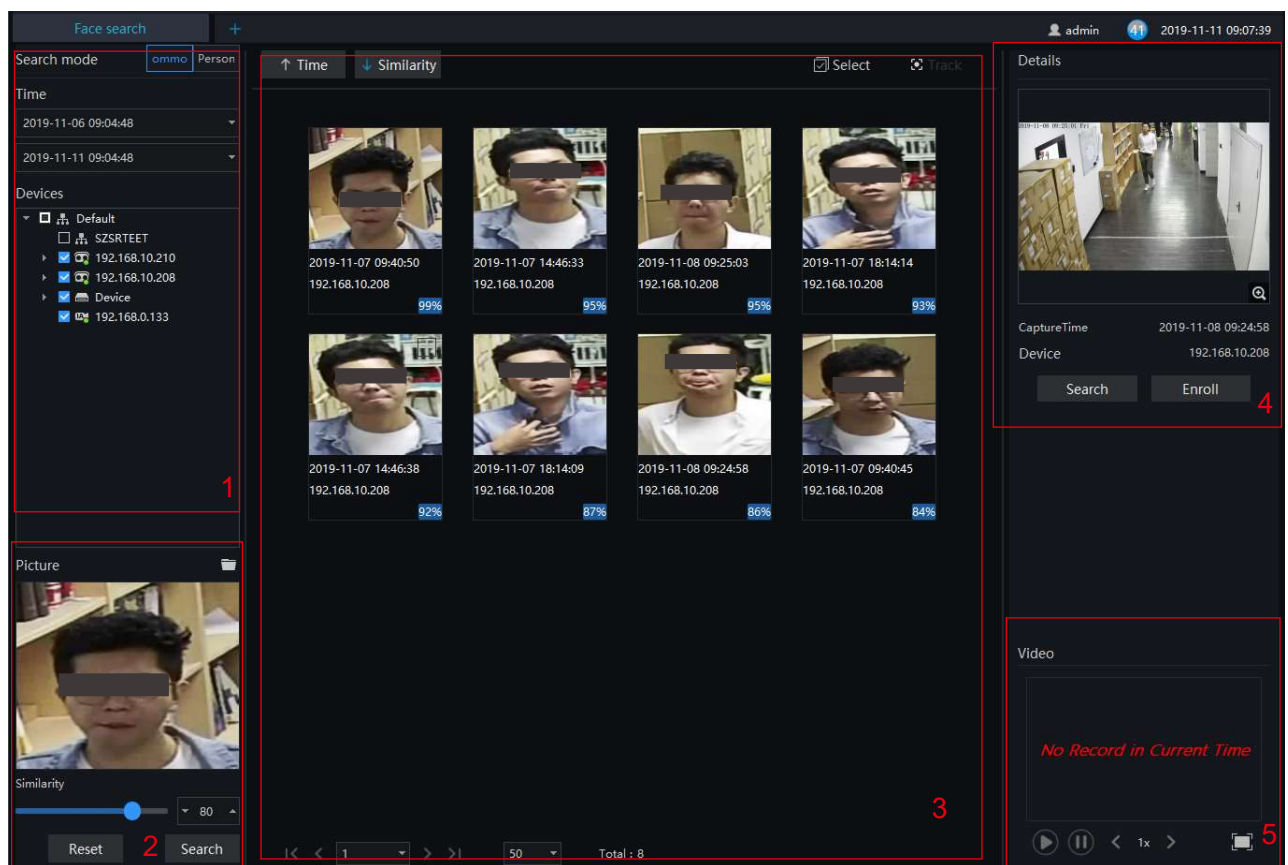



Table 24-1 Smart search

| No. | Function | Description |
|-----|-----------------|---|
| 1 | 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. |

| No. | Function | Description |
|-----|--------------------------|---|
| 2 | 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 |
| 3 | Display information | The information can be displayed by time, similarity in row, behavior track. |
| 4 | 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. |
| 5 | Switch picture to search | If there is a record, you can directly play the video before and after the snapshot. |

24.1 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.

24.2 Track

NOTE

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

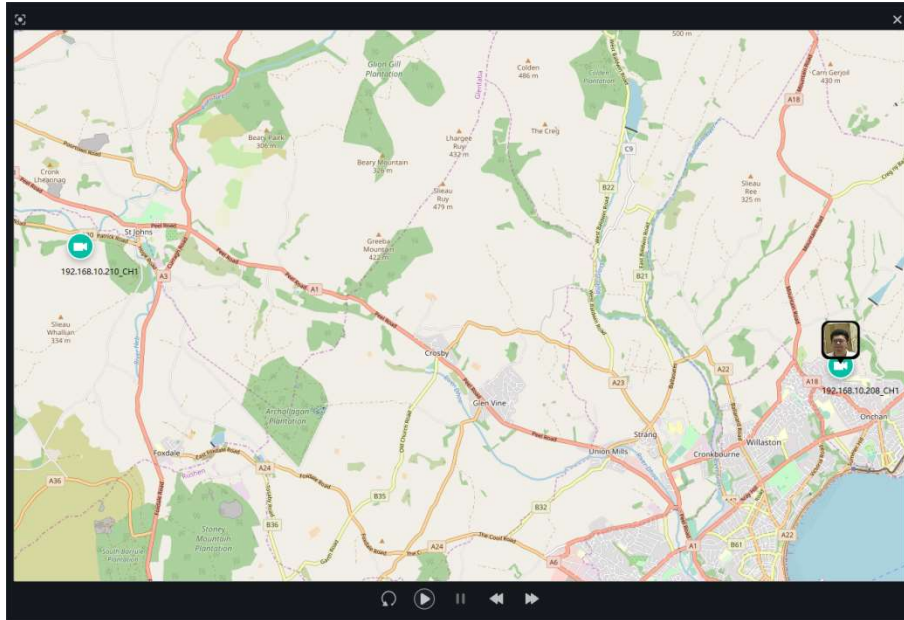
Procedure:

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 24-2 Track



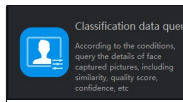
Step 4 Replay or playback the track line.

25 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 25-1.

Figure 25-1 Classification data query

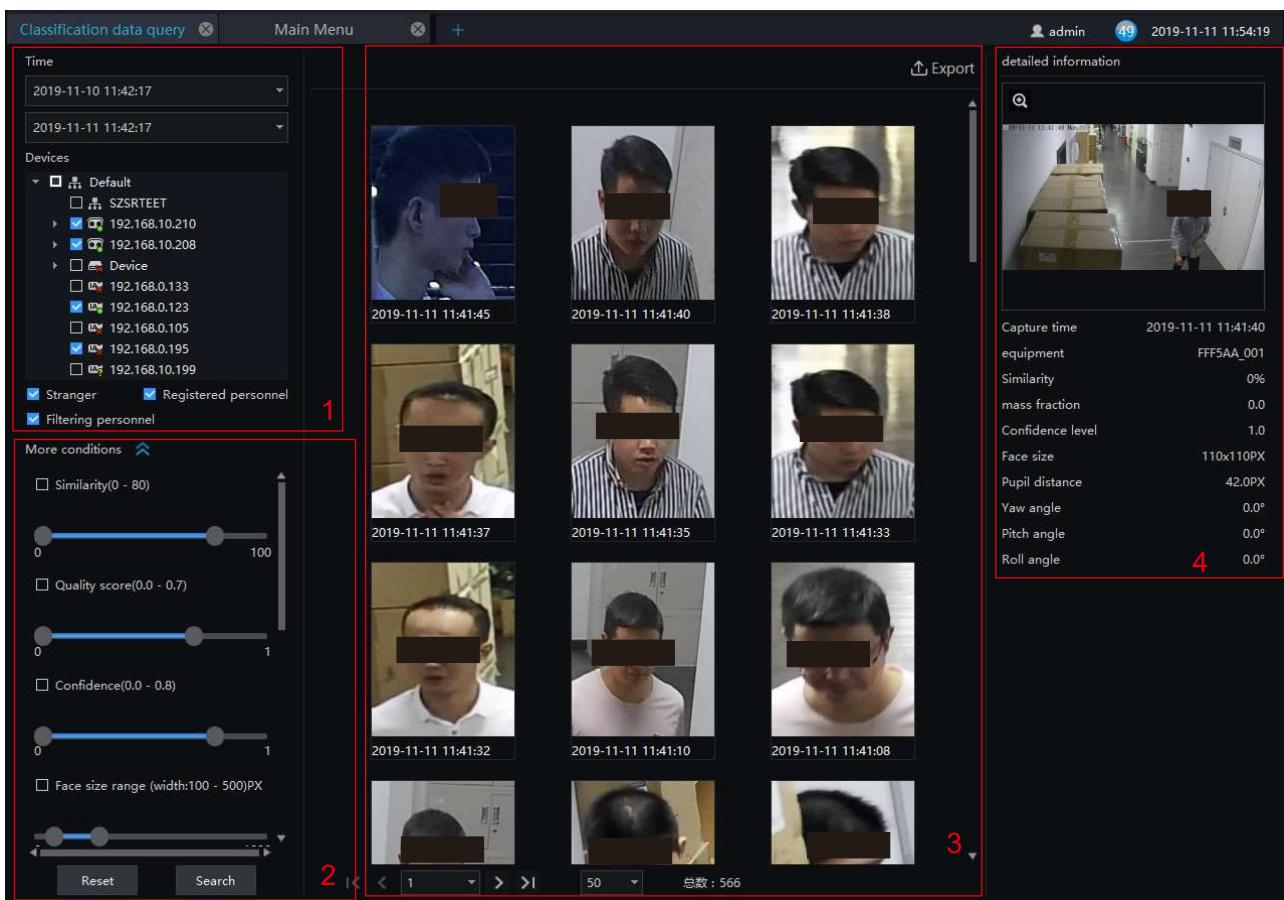


Table 25-1 Smart search

| No. | Function | Description |
|-----|------------------------------|--|
| 1 | Basic conditions of querying | Start time and end time, tick the devices and modes of face libraries. |

| No. | Function | Description |
|-----|----------------------|---|
| 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 25-2 More conditions

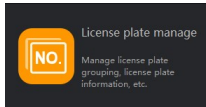


26 License Plate Manage

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.



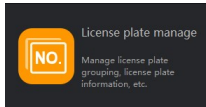
On the main menu page, click  to view more detailed interface.

Figure 26-1 License plate manage interface

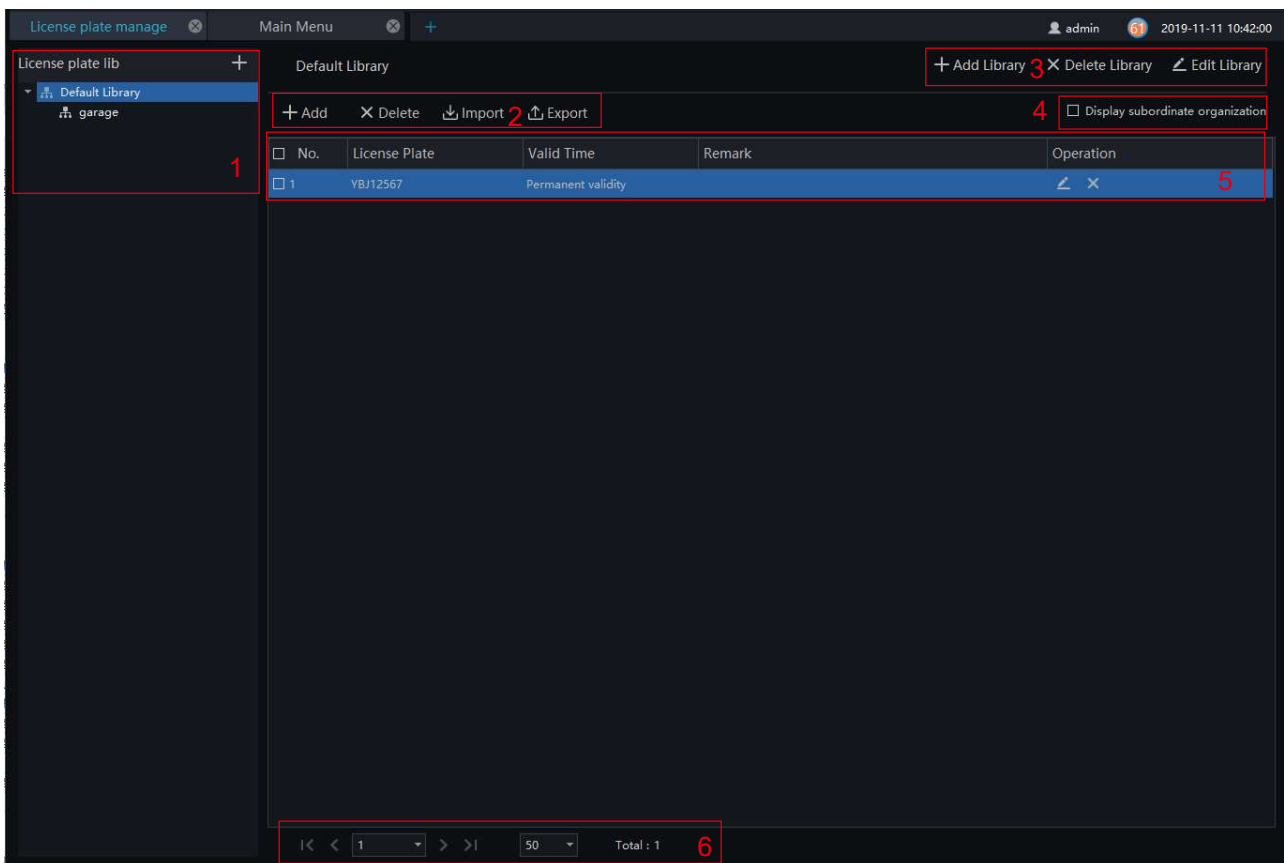


Table 26-1 Smart search


| 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. |

| No. | Function | Description |
|-----|----------------------------------|---|
| 3 | Operation of library | The basic operation of license plate library. |
| 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 |

26.1 Add license Plate Library

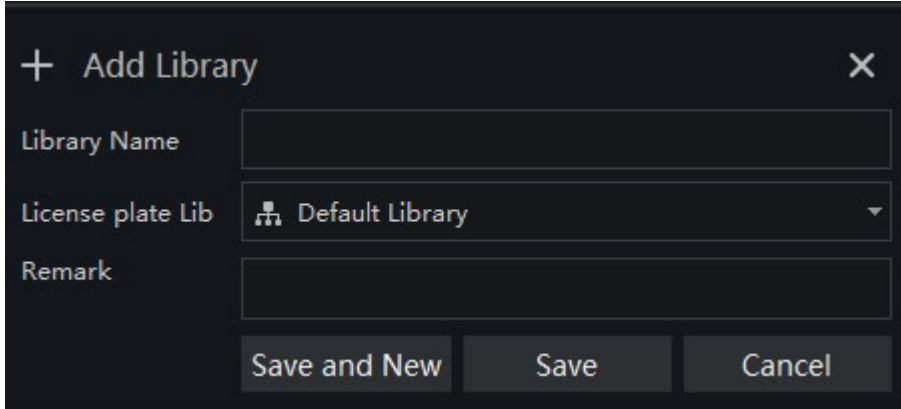
Procedure:

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 26-2.

Figure 26-2 Add license plate library



Step 4 Click “Save” to save the parameters.

26.2 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 26-3, choose the picture from the local client.

Figure 26-3 Add license plate

The screenshot shows a dark-themed dialog box titled "+ Add license plate info" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- License Plate:** A text input field.
- License plate Lib:** A dropdown menu currently displaying "Default Library".
- Valid Time:** A dropdown menu currently displaying "Permanent validity".
- Remark:** A text input field.

At the bottom of the dialog, there are three buttons: "Save and New", "Save", and "Cancel".

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

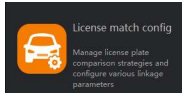
The operations such as import, export, delete license plate library are same as face library, please refer to *chapter 22*.

27 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.



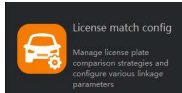
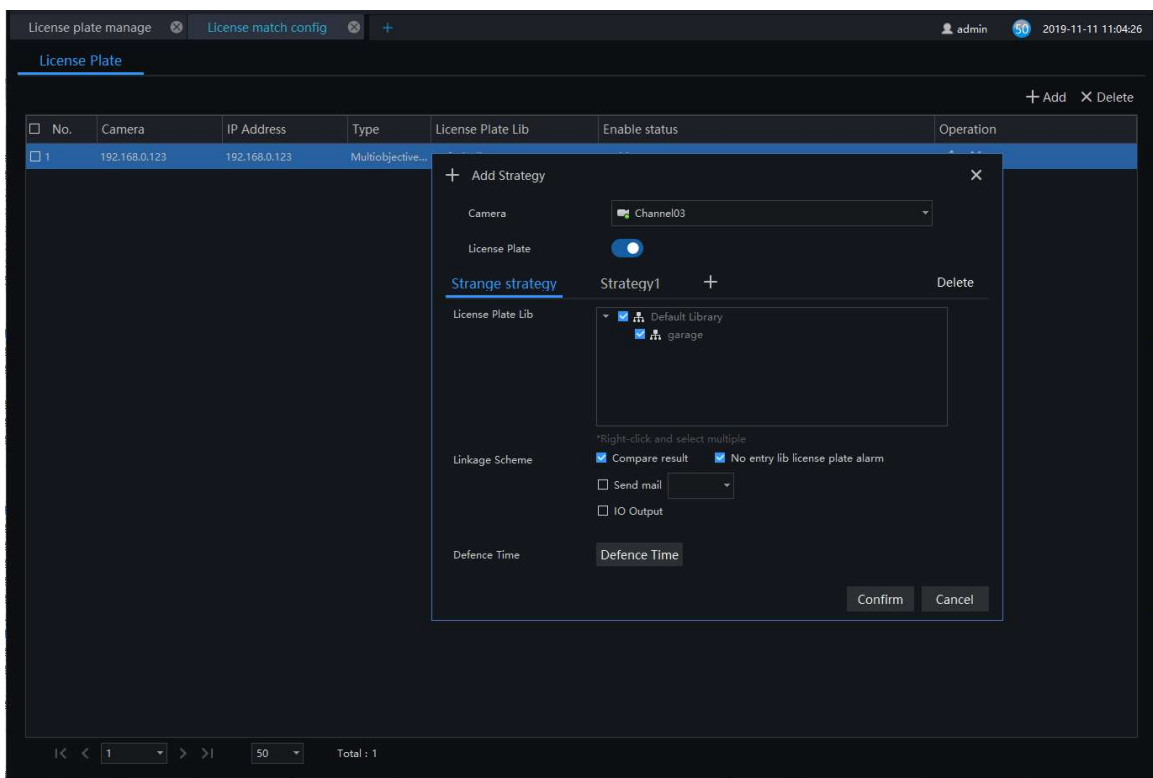
On the main menu page, click  to view more detailed interface.

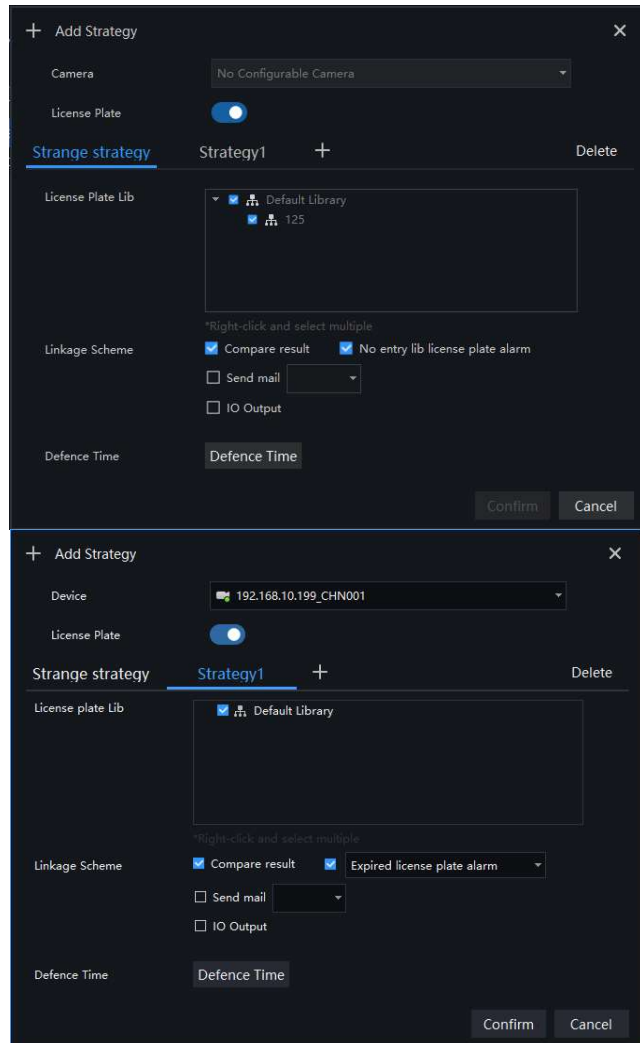
Figure 27-1 License plate configuration



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 27-2 Add strategy



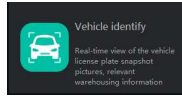
Step 3 Choose camera and license plate library.

Step 4 Set up Similarity and activate Stranger mode.

Step 5 Click “Confirm” to save the settings.

28 Vehicle Identify

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

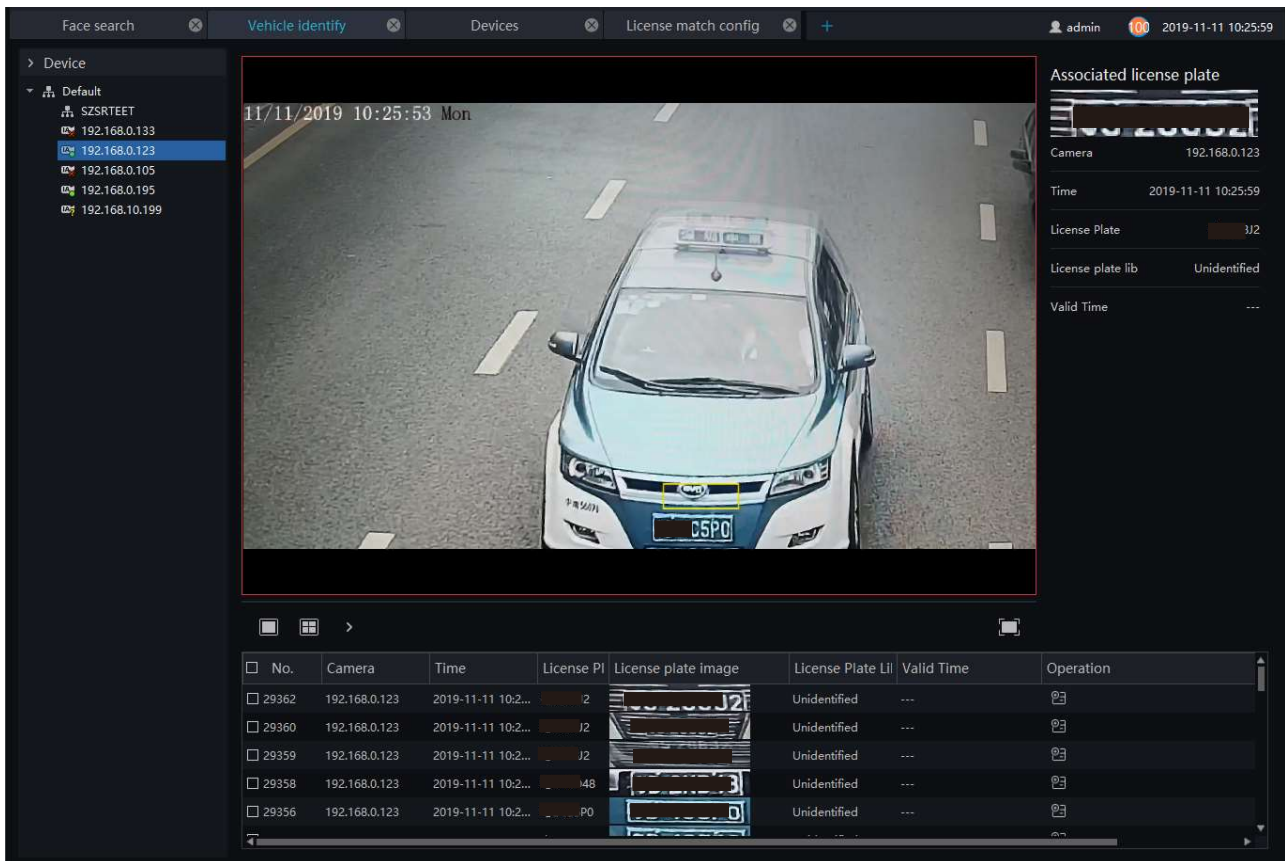


On the main menu page, click view the detailed interface, as shown in

NOTE

This function only supports the cameras with license plate detection.

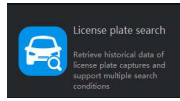
Figure 28-1 Vehicle identity interface




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.

29 License Plate Search

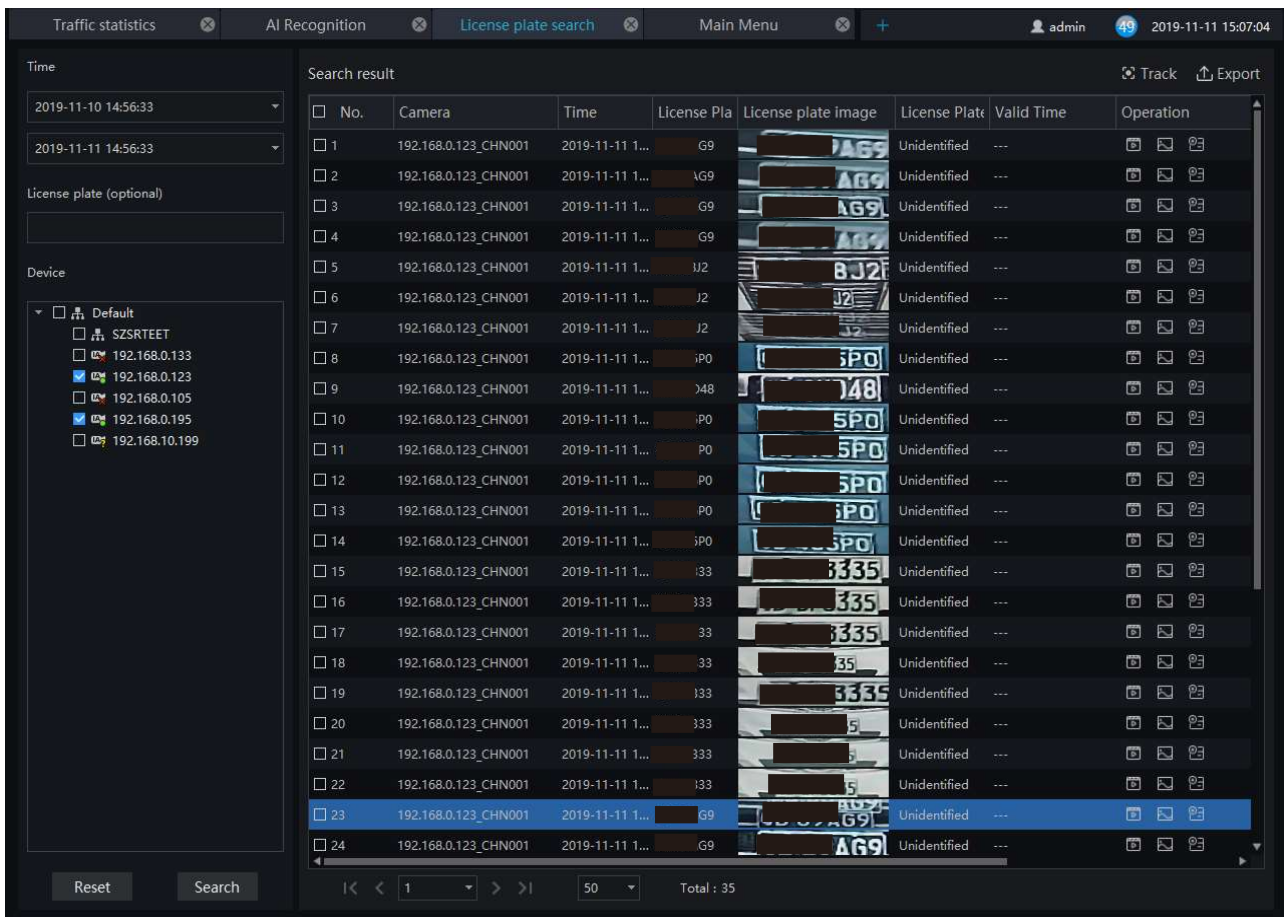


On the main menu page, click  view the detailed interface, as shown in Figure 29-1.

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 29-1 Intelligent search



- 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.

30 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 30-1.

Figure 30-1 AI recognition

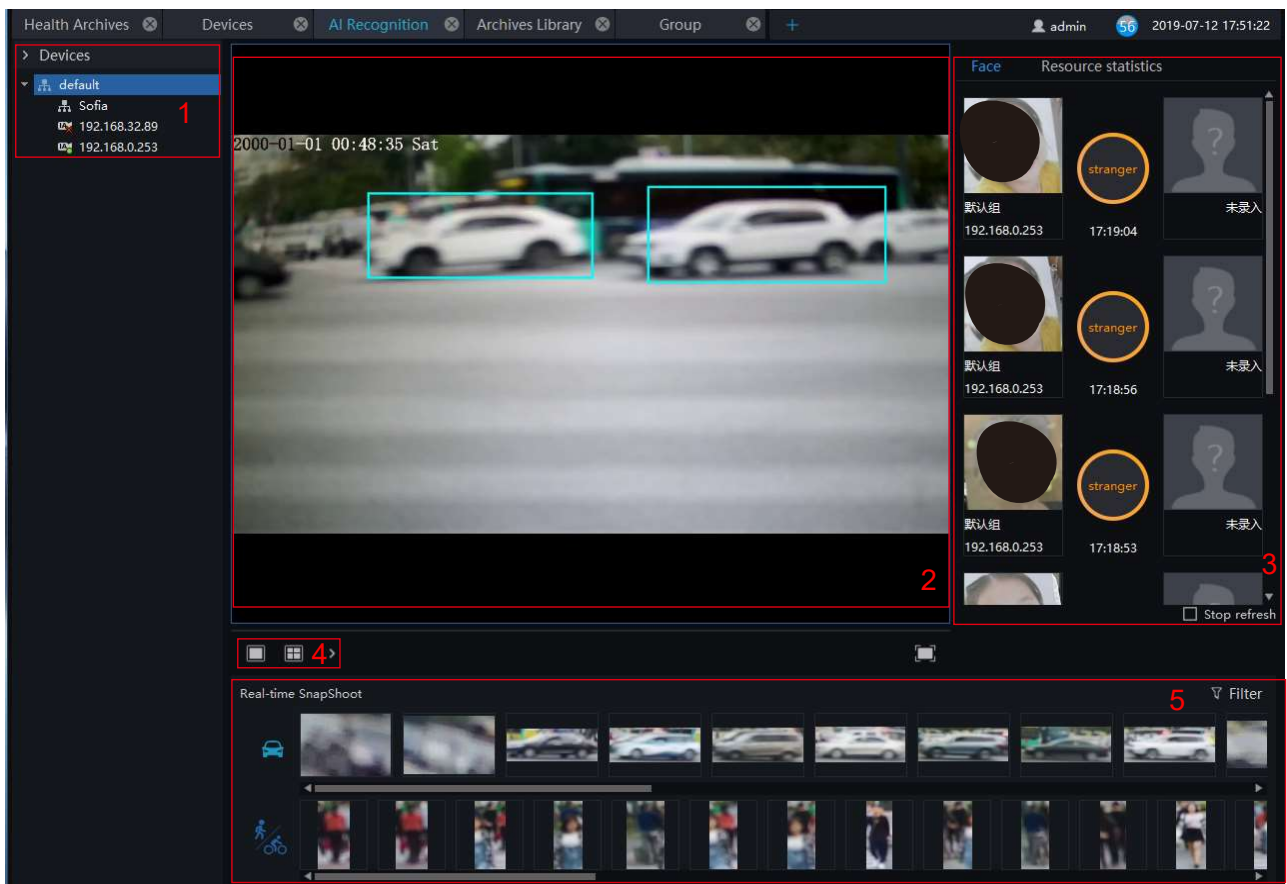


Table 30-1 AI recognition

| 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 as shown in figure 23-2. |

Figure 30-2 Filter

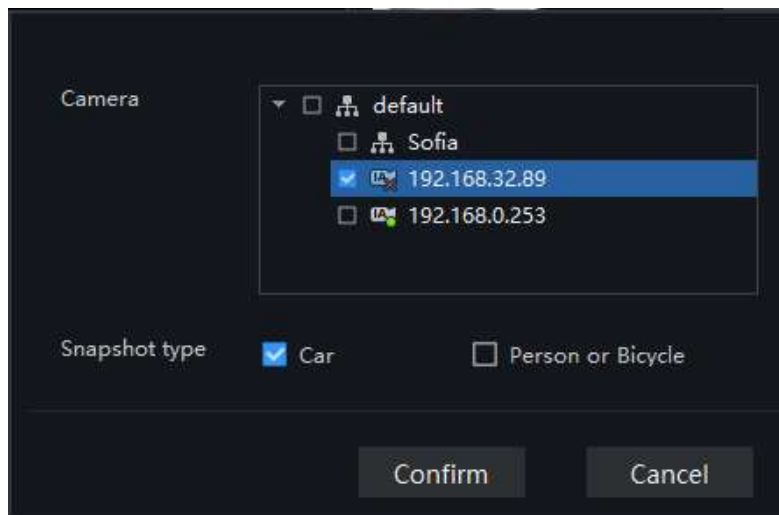


Figure 30-3 Resource statistics

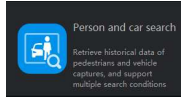


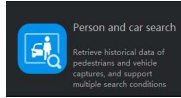
31 Person and Car Search

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

NOTE

This function only supports AI cameras.

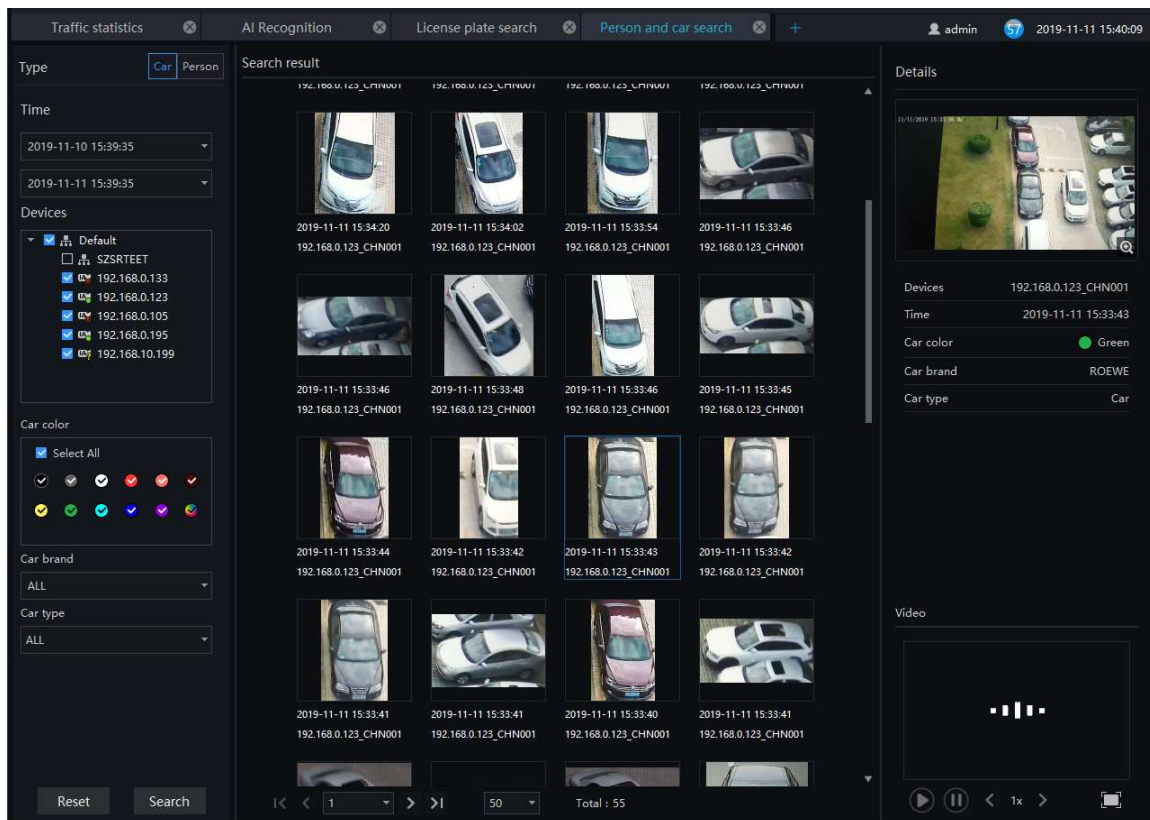


On the main menu page, click  view the detailed interface, as shown in Figure 31-1.

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 31-1 Person and car search



32 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 32-1.

Figure 32-1 Traffic statistics

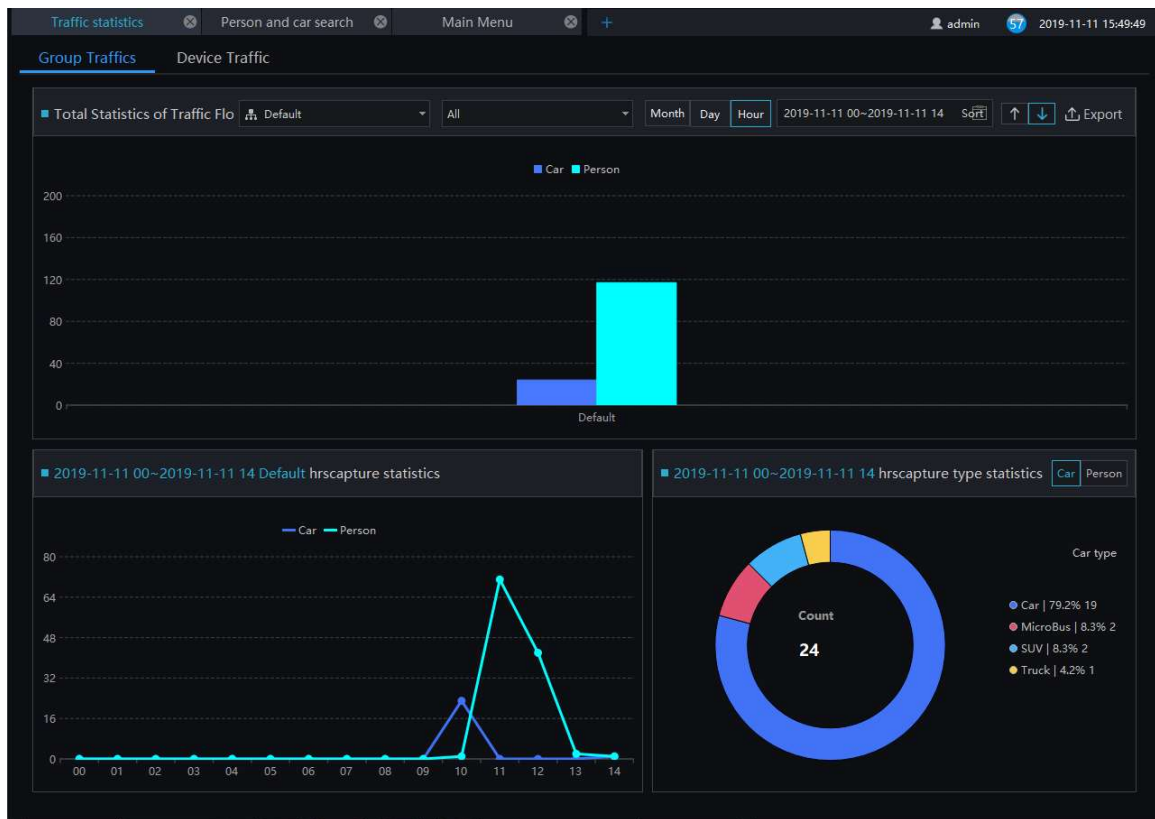
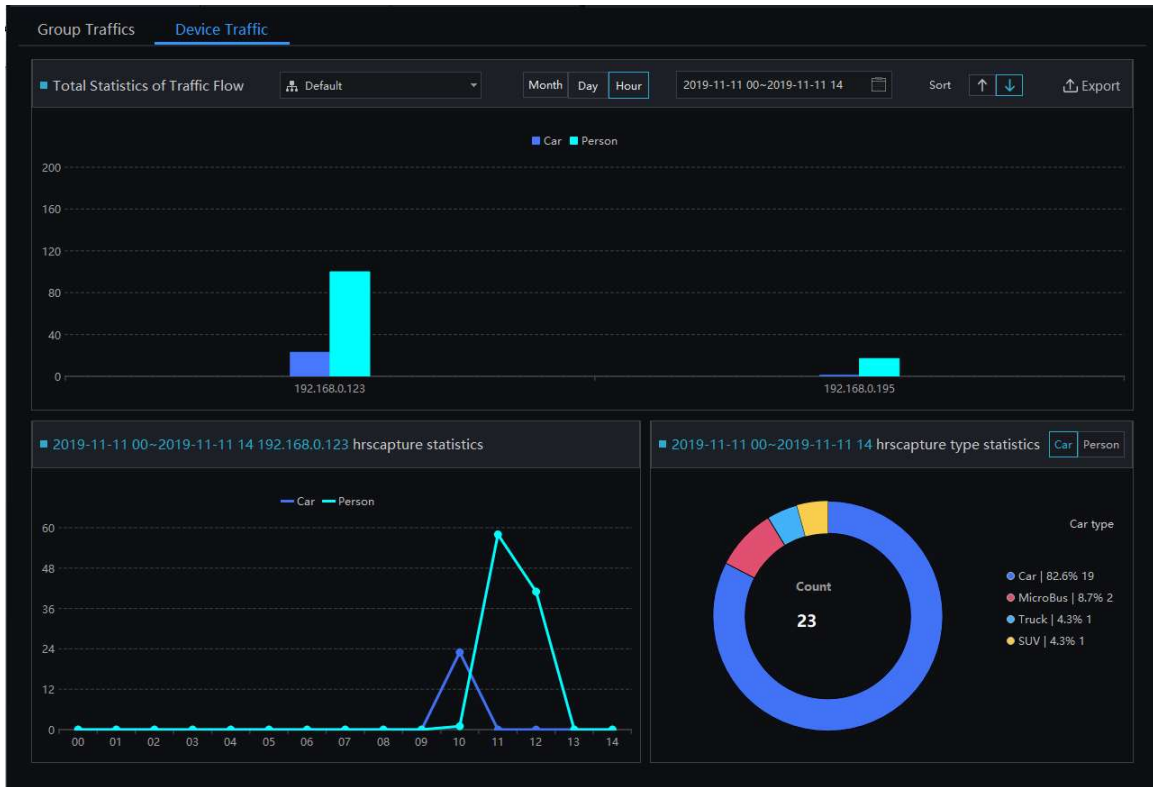


Figure 32-2 Device traffic



33 Attendance Configuration

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

Figure 33-1 Attendance configuration

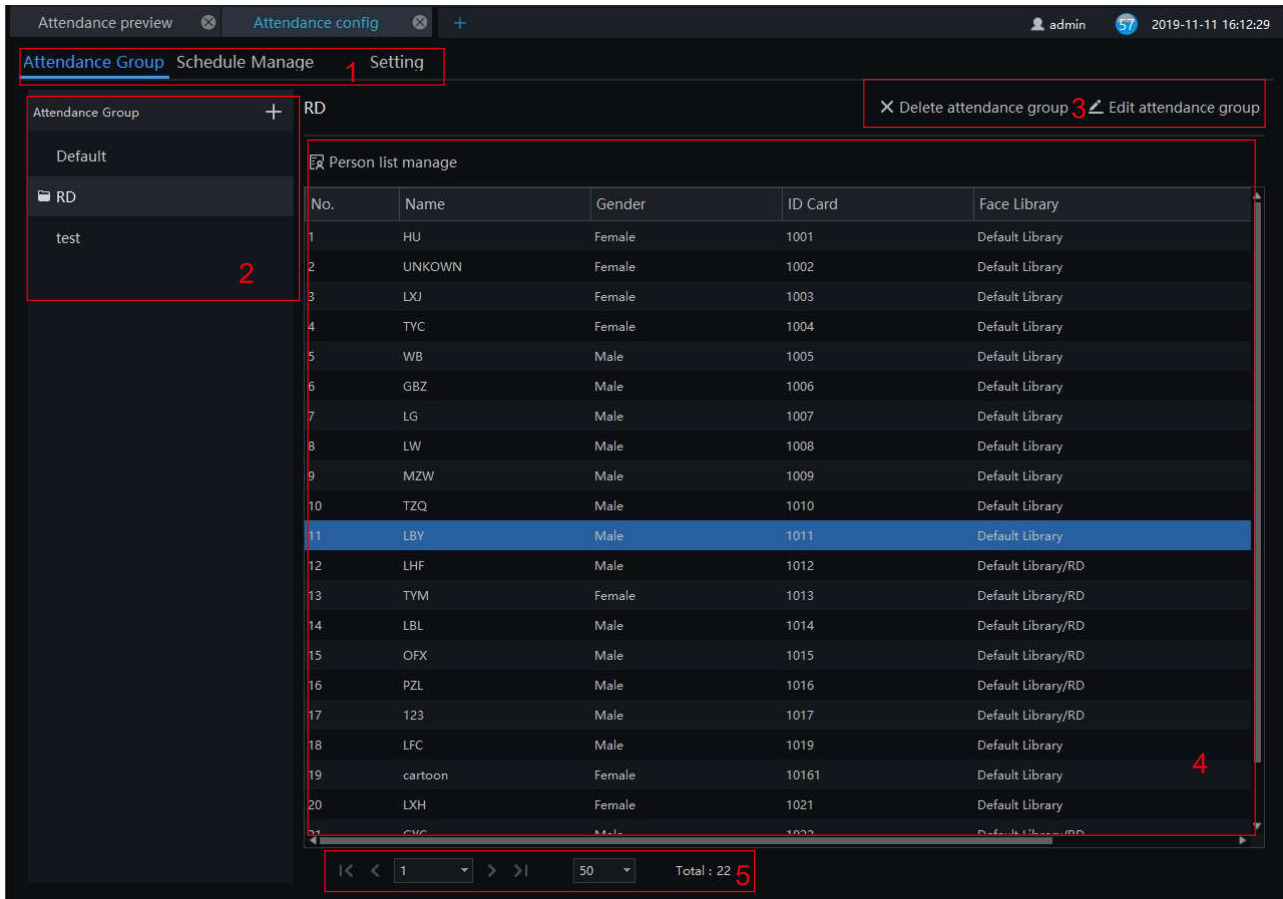


Table 33-1 Attendance

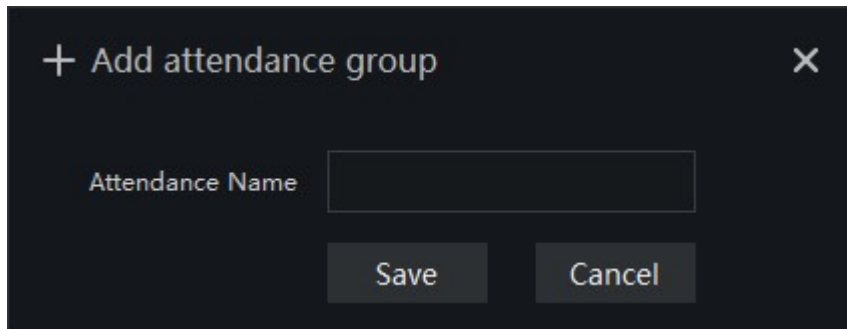
| No. | Function | Description |
|-----|---------------------|---|
| 1 | Guide of attendance | Attendance group, schedule manage, attendance setting. |
| 2 | Group | Show the attendance group. |
| 3 | Basic operation | Edit or delete the attendance group. |
| 4 | Person list manage | Basic information 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. |

33.1 Attendance Group

Procedure:

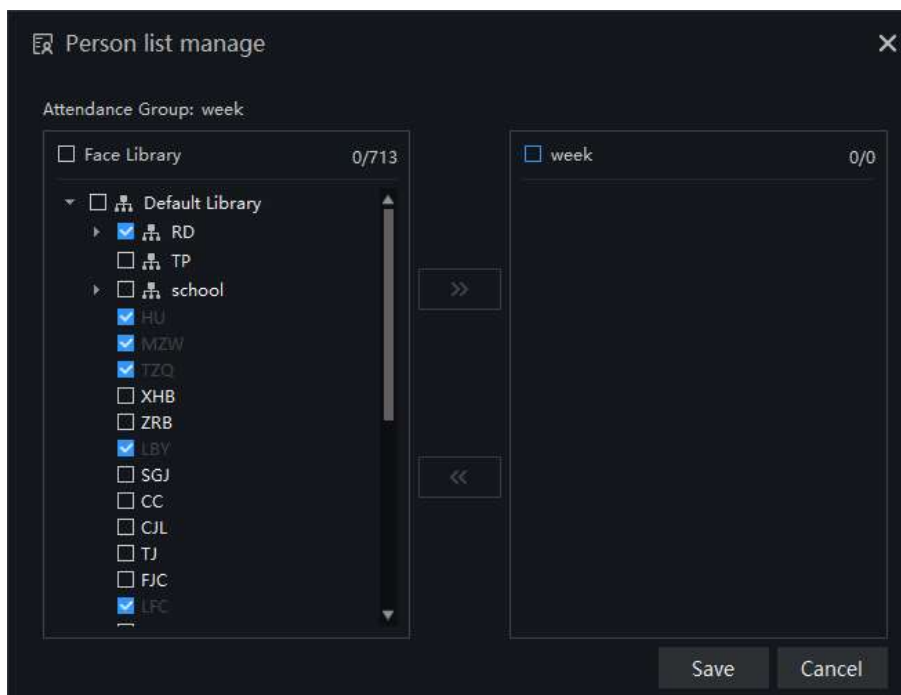
Step 1 Click “+ ” to add attendance group, input the name of group.

Figure 33-2 Add attendance group



Step 2 Click “person list manage” to add person to new group, as shown in Figure 33-3.

Figure 33-3 Person list manage



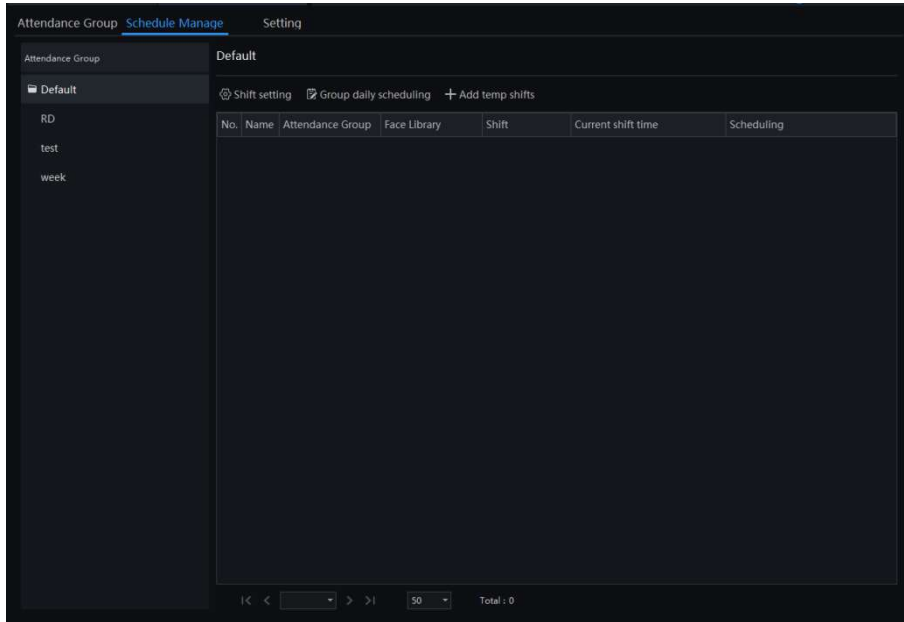
Step 3 Tick the staff of face library to attendance group.

Step 4 Click “Save” to save the settings.

Step 5 Click “Edit attendance group” to modify.

33.2 Schdule Manage

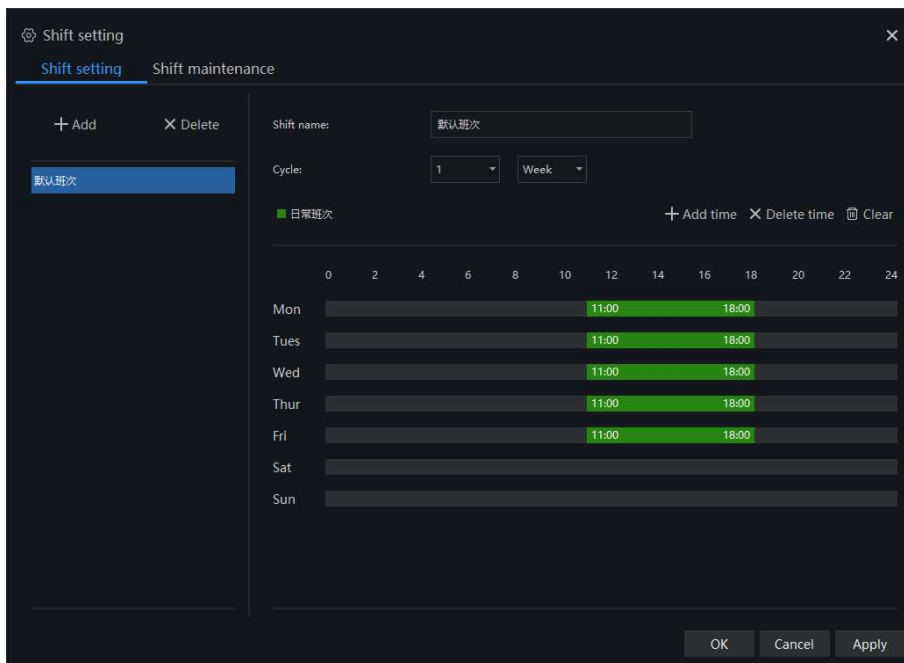
Figure 33-4 Schedule manage



Procedure:

Step 1 Click “Shift setting” to enter the interface, as shown in Figure 33-5.

Figure 33-5 Shift setting

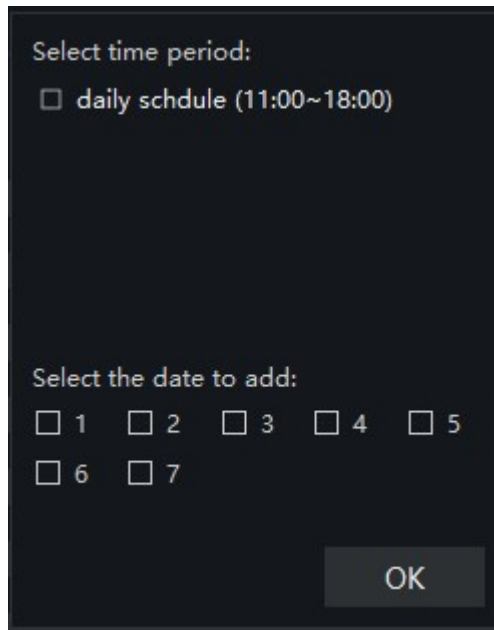


Step 2 Click “Add” to add new schedule, click “Delete” to delete the schedule.

Step 3 Set the name and cycle of shift schedule.

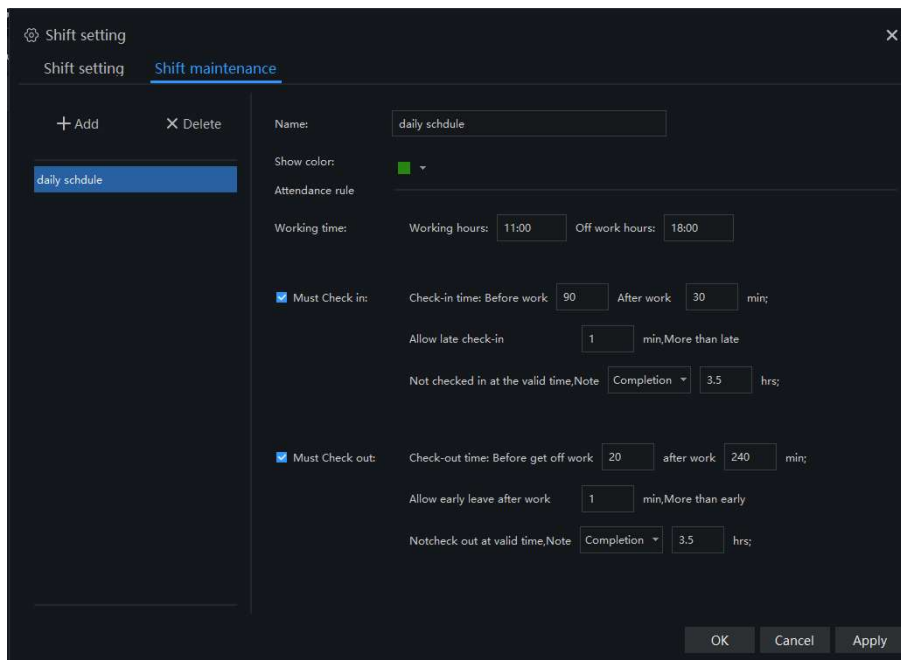
Step 4 Click “ Add time” as shown in Figure 33-6, or “Delete time” to modify the time.

Figure 33-6 Add time



Step 5 Choose “Shift maintenance” to maintain the shift, as shown in Figure 33-7

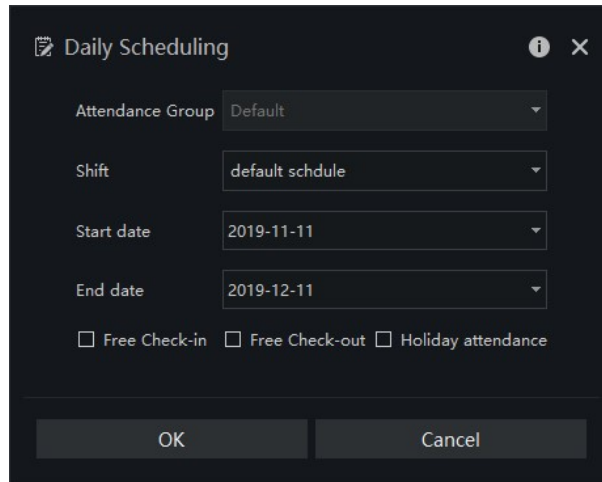
Figure 33-7 Shift maintenance



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

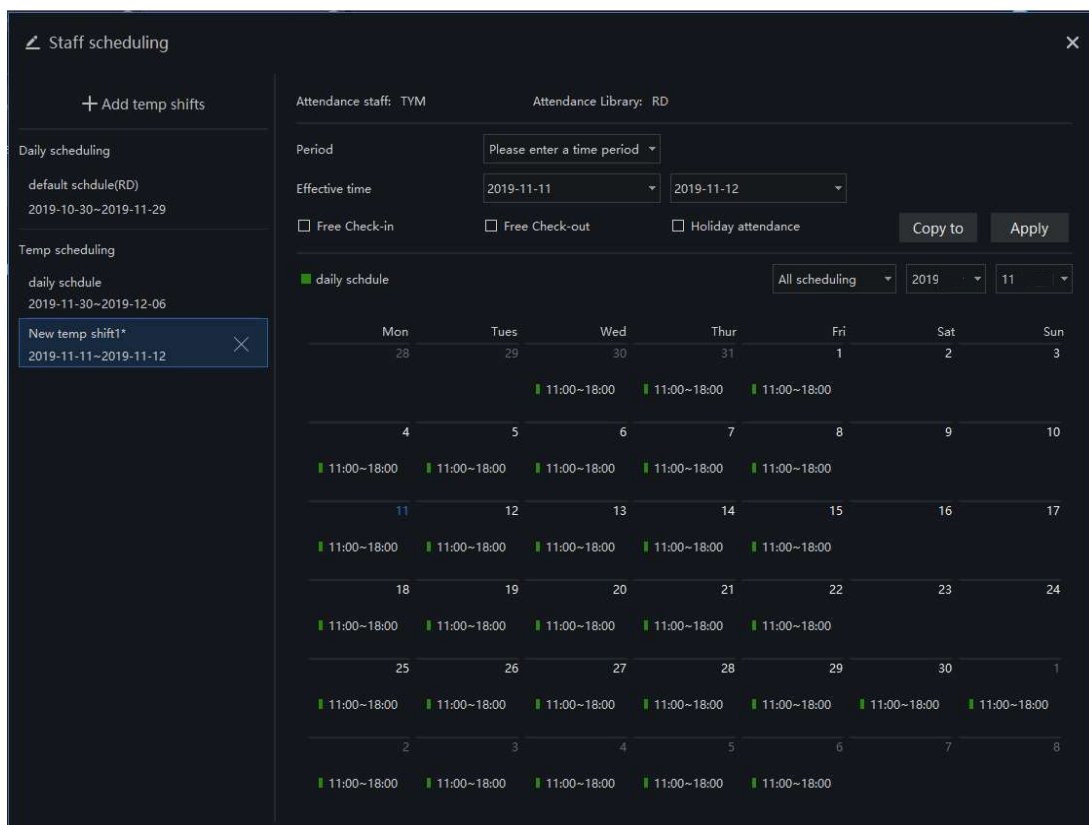
Step 7 Click “Group daily schedule” at schedule manage, as shown in Figure 33-8.

Figure 33-8 Daily scheduling



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

Figure 33-9 Add temp shifts



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

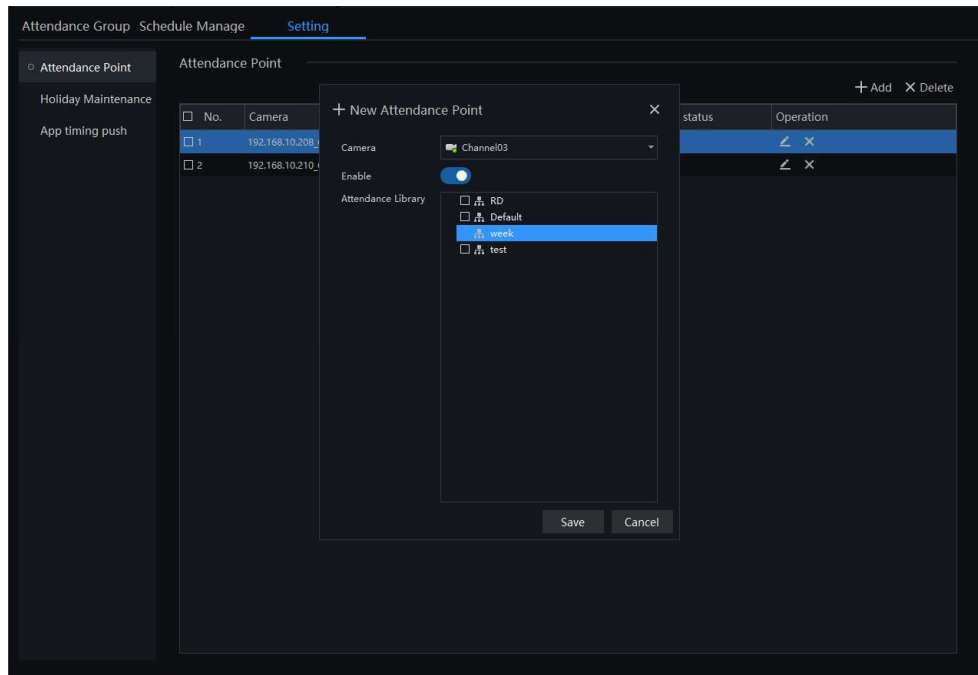
33.3 Attendance Setting

33.3.1 Attendance Point

Procedure:

Step 1 Choose “Attendance Point” at setting interface, click “Add” to add a new point, as shown in Figure 33-10.

Figure 33-10 Attendance point



Step 2 Choose the camera, enable the function.

Step 3 Tick the attendance library.

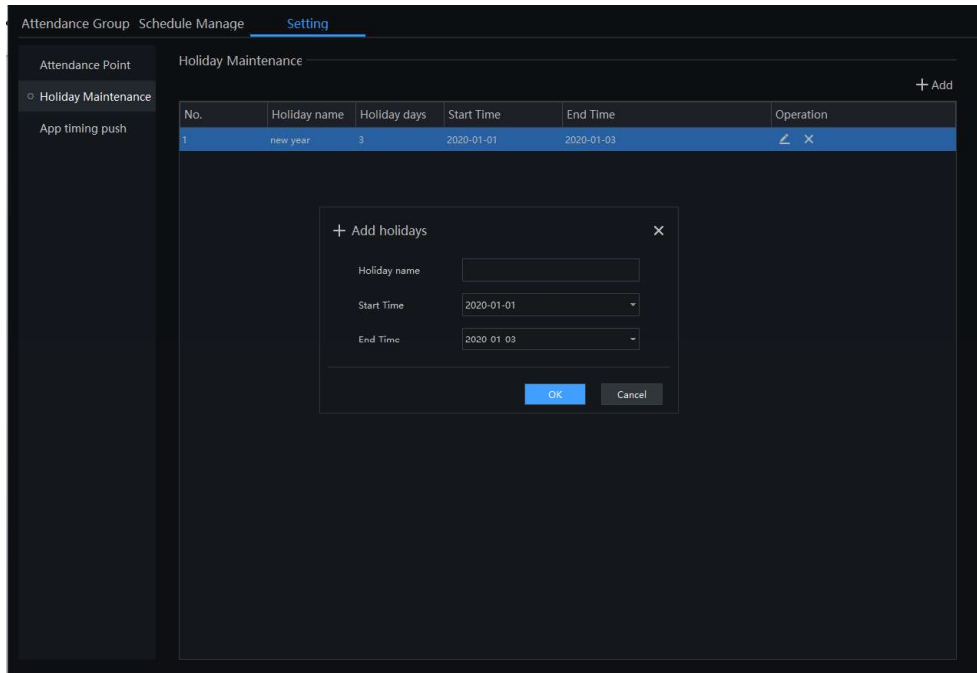
Step 4 Click “ Save” to save the settings.

33.3.2 Holiday Maintenance

Procedure:

Step 1 Choose “Holiday Maintenance” at setting interface, click “Add” to add a new one, as shown in Figure 33-11.

Figure 33-11 Holiday maintenance



Step 2 Input the holiday name.

Step 3 Set the start time and end time.

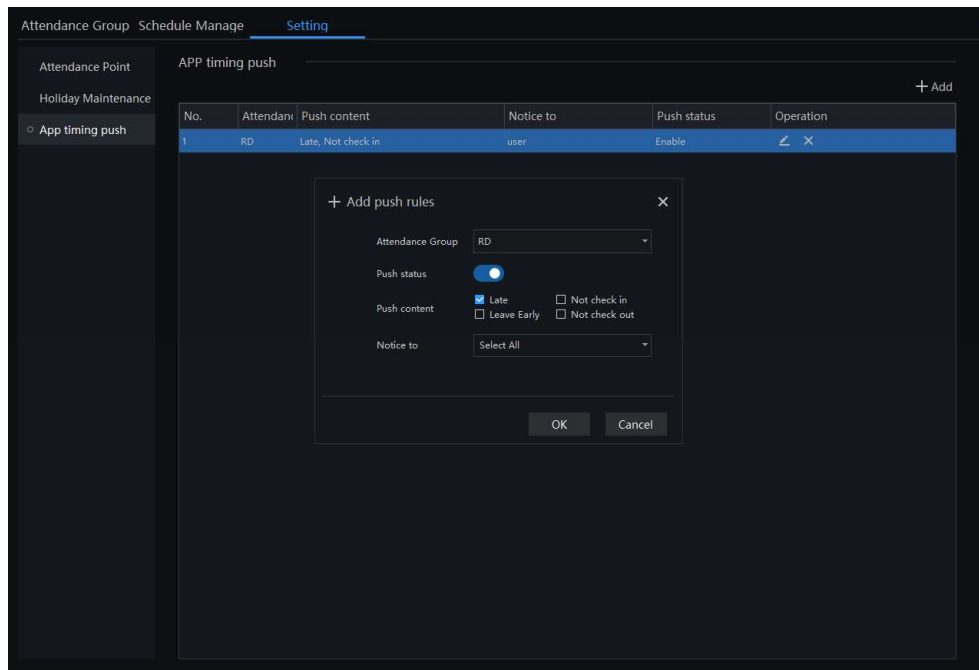
Step 4 Click “OK” to save the settings.

33.3.3 App Timing Push

Procedure:

Step 1 Choose “App timing push” at setting interface, click “Add” to add a new one, as shown in Figure 33-12.

Figure 33-12 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.

34 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 34-1.

Figure 34-1 Attendance interface

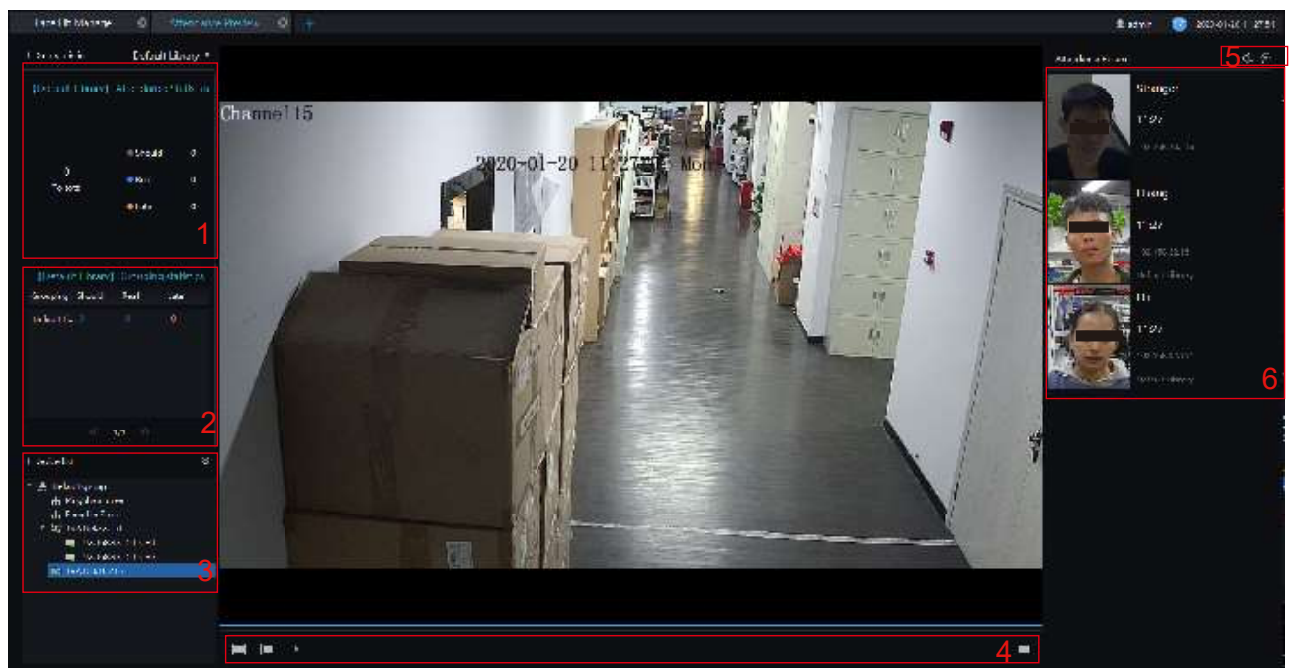


Table 34-1 Attendance

| 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. |

| No. | Function | Description |
|-----|------------------------|--------------------------------|
| 6 | Snapshot of attendance | Basic information of snapshot. |

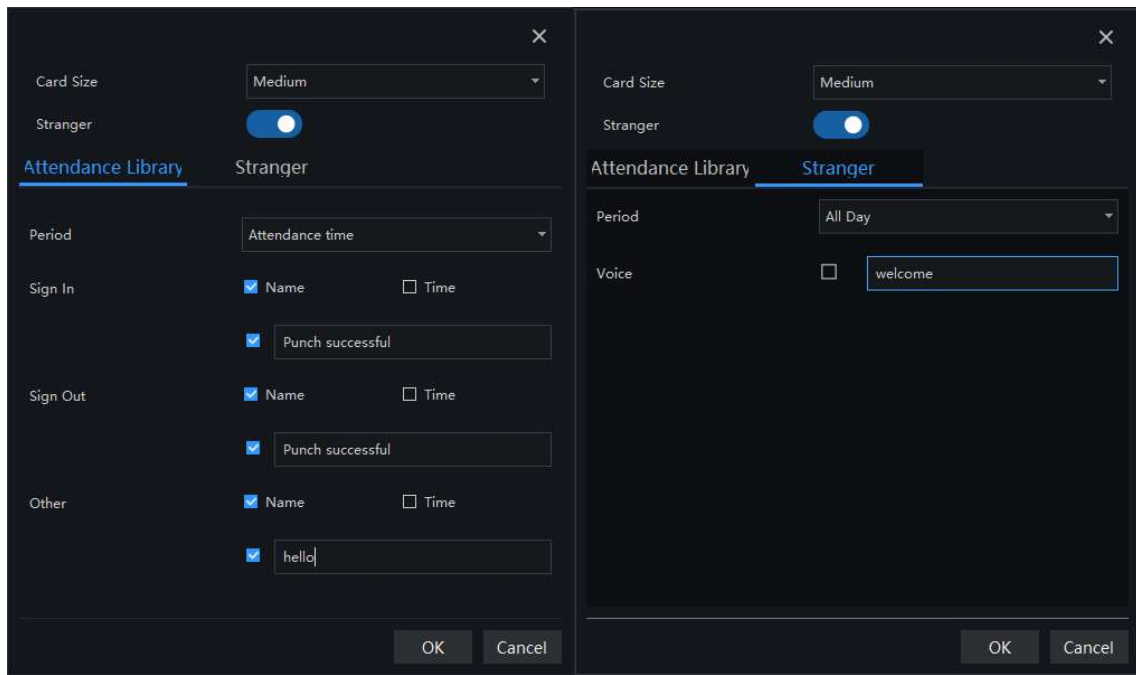
Procedure:

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

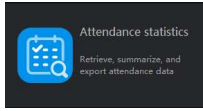
Step 3 Click the Settings icon to set the attendance related parameters.

Figure 34-2 Card parameters of library



35 Attendance Statistics

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



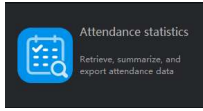
On the main menu page, click  to view the detailed interface, as shown in Figure 35-1.

Figure 35-1 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 | LBV | 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 | GVC | 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.

36 Temperature Configuration



On the main menu page, Click  to view more detailed interface, as shown in Figure 36-1.

NOTE

This function is only subject to thermal cameras.

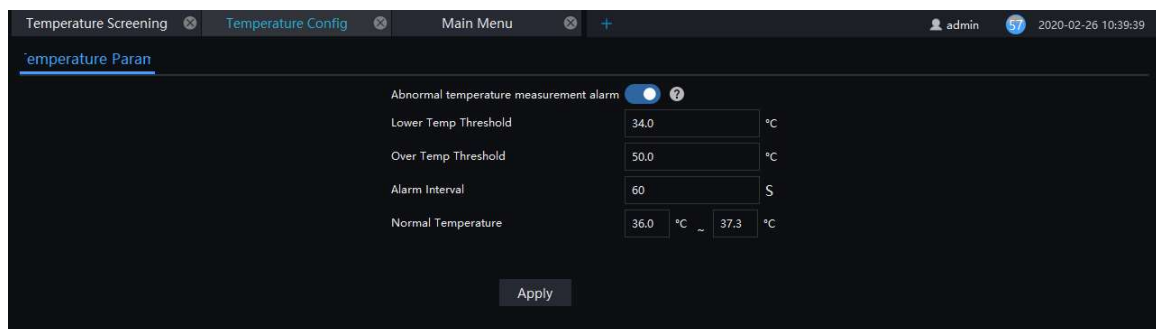
Procedure:

Step 1 Enable the abnormal temperature measurement alarm, the snapshot will keep the record of snapshots which are abnormal. Disable the function, the snapshots of abnormal will be abandoned and not show on screen.

Step 2 Input the information of threshold, as shown in Figure 36-1.

Step 3 Click “Apply” to save the settings.

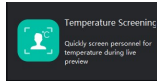
Figure 36-1 Temperature configuration



NOTE

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

37 Temperature Screening



On the main menu page, Click  to view more detailed interface, as shown in

NOTE

This function is only subject to body temperature cameras.

Figure 37-1 Temperature screening



Table 37-1 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. |
| 3 | Live video | Show the live video, and choose split screens to show many cameras' live video. Show the video at full screen, the snapshot will show by card, as shown in Figure 37-2. Click the bottom of full screen to exit the full screen. |


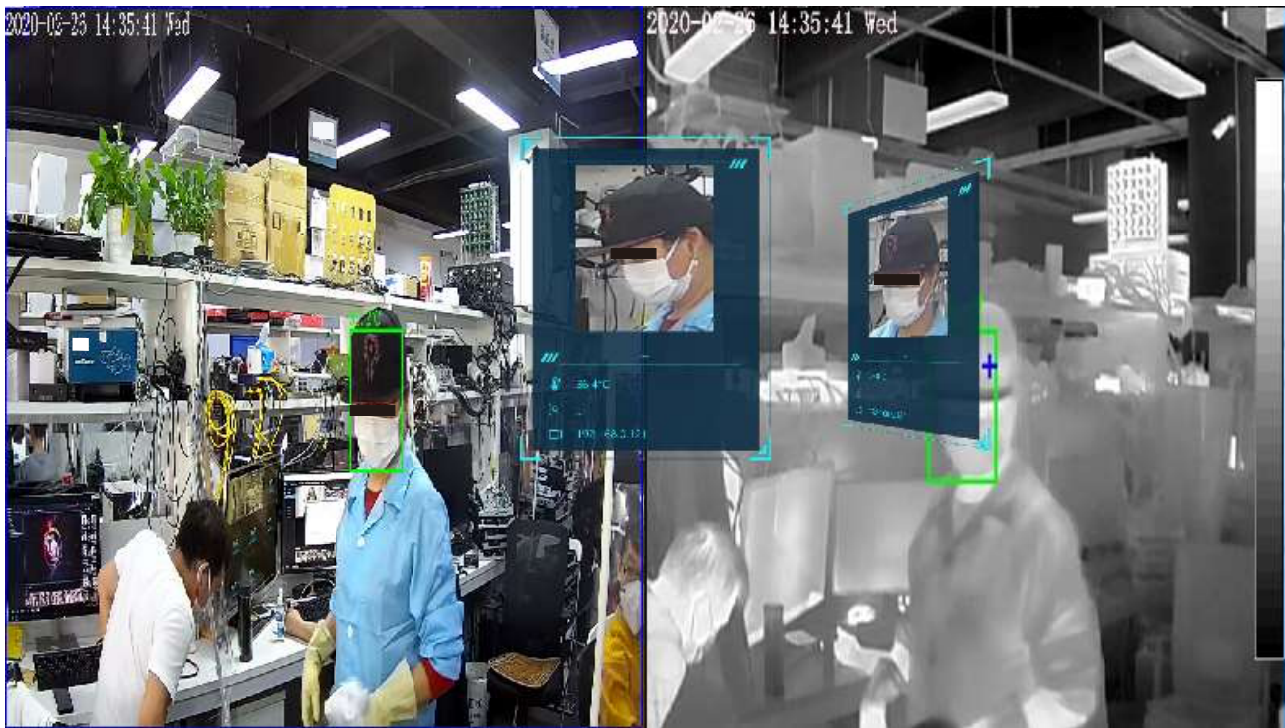

| No. | Function | Description |
|-----|---------------------------|---|
| 4 | Over temperature snapshot | The snapshots of over the normal temperature. Click  to delete all over temperature snapshot at the display area. |
| 5 | Temperature record | The information of snapshots, include temperature, device and time of snapshot. You can also set voice broadcast and full screen face card. |

Figure 37-2 Full screen face card



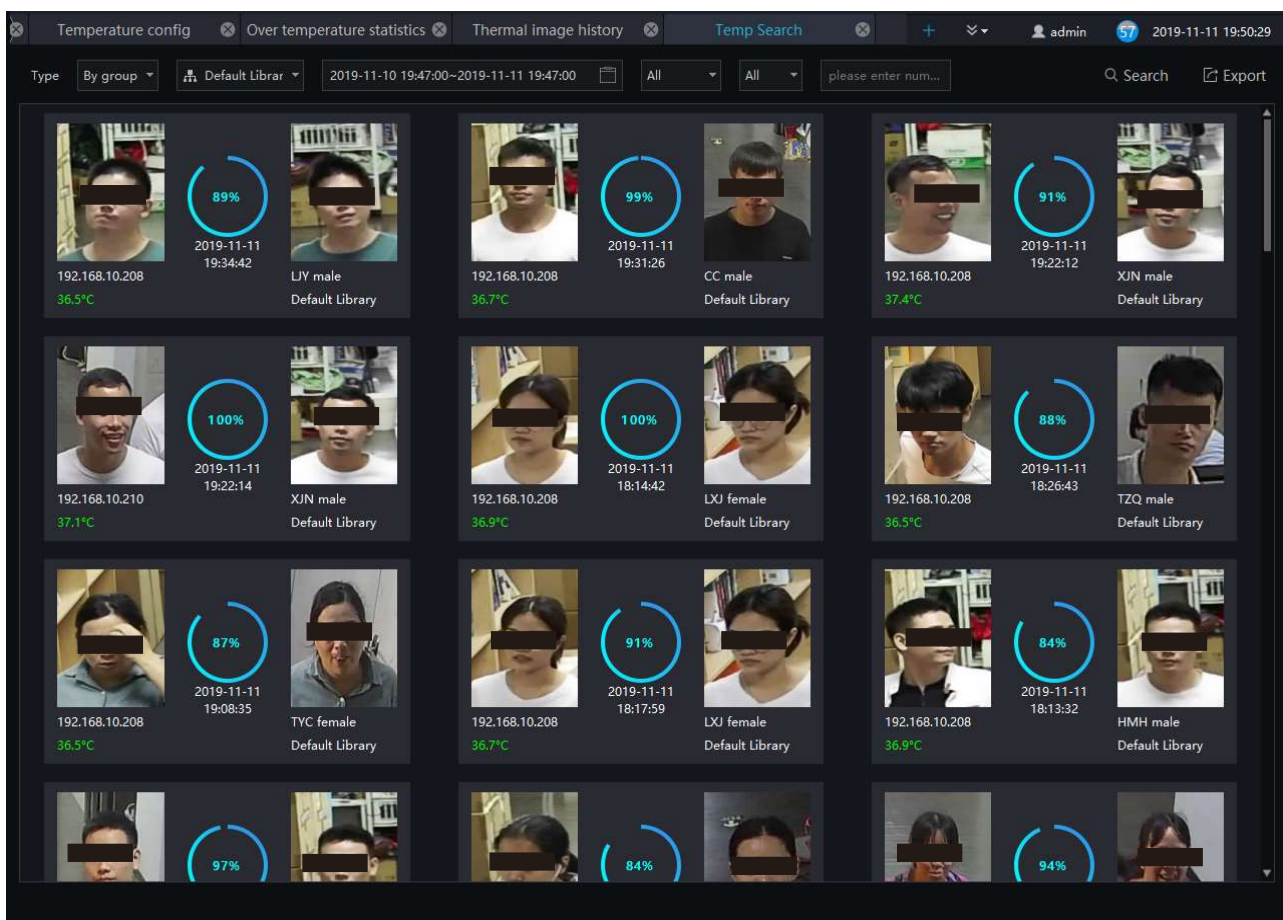
38 Temperature Search

On the main menu page, Click  to view more detailed interface, as shown in Figure 38-1.

NOTE

This function is only subject to body temperature cameras.

Figure 38-1 Temperature search



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.

39 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.

39.1 Arrchives Manage

Figure 39-1 Health archives

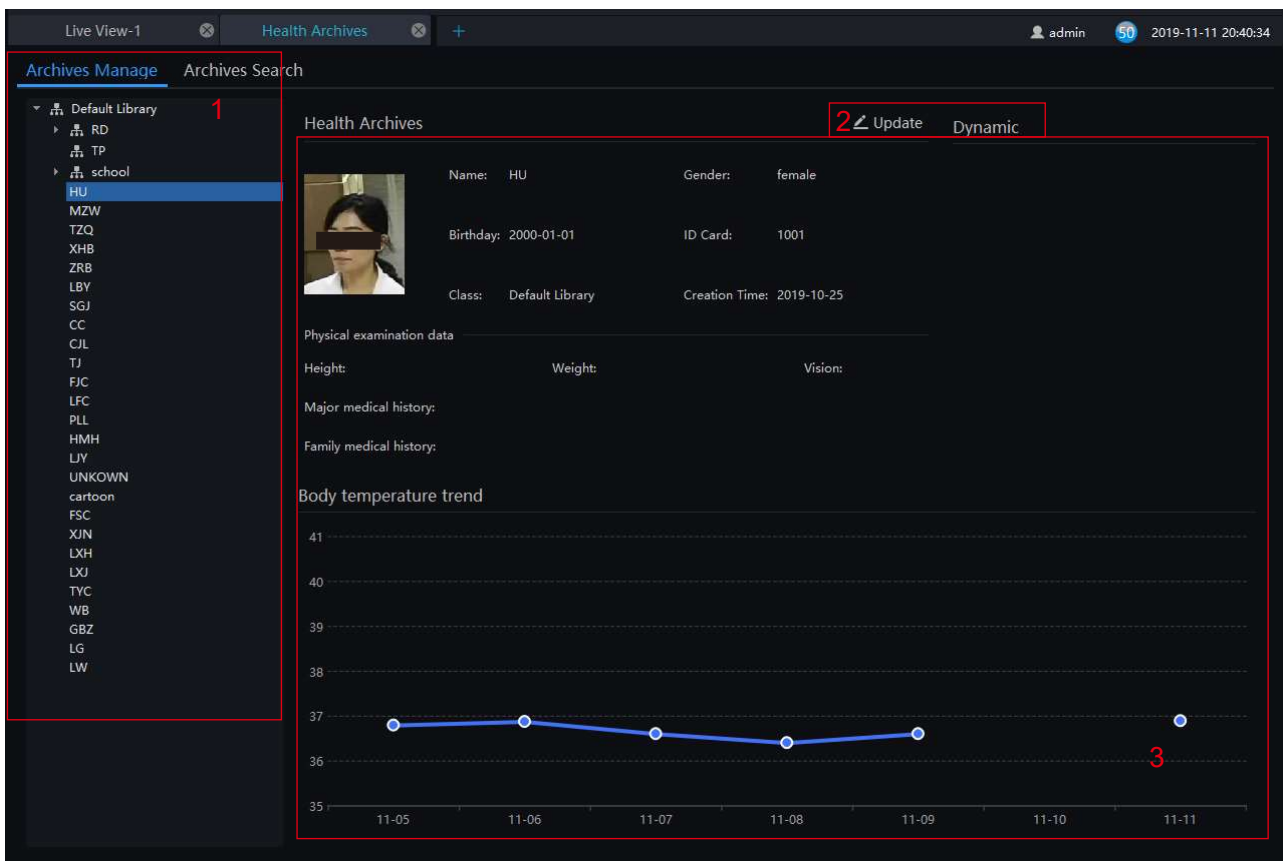


Table 39-1 Health archives

| No. | Function | Description |
|-----|----------------|-----------------------------|
| 1 | Personnel list | Show the people of library. |

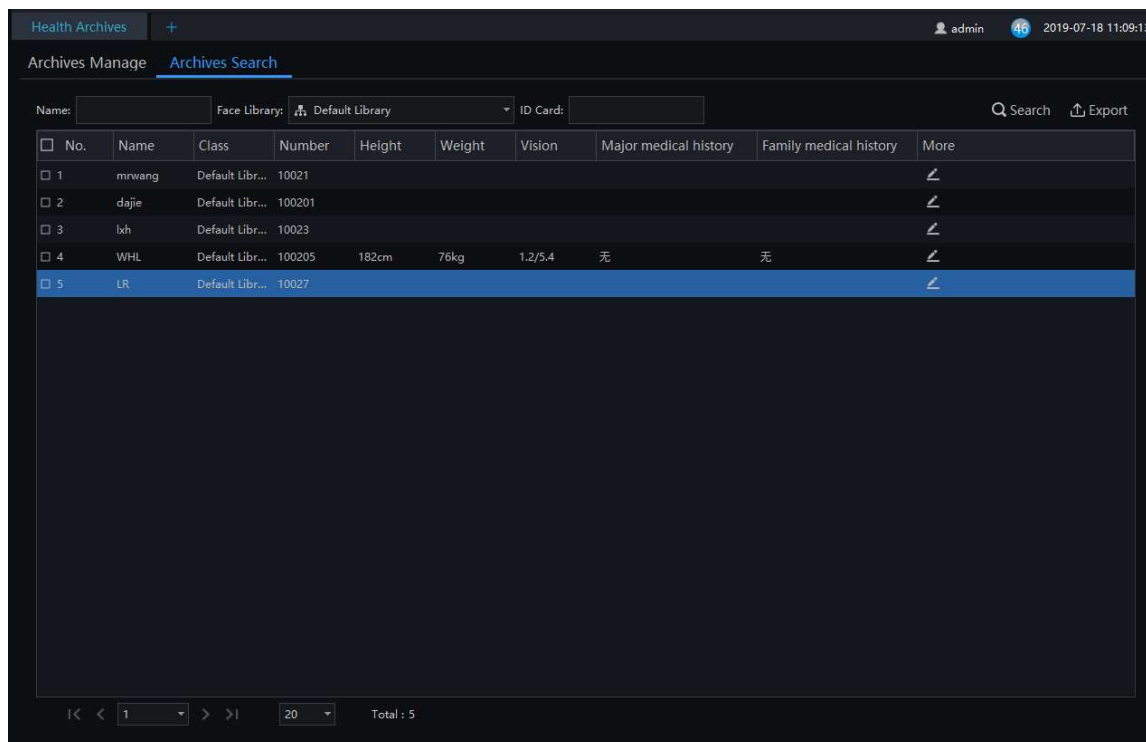
| No. | Function | Description |
|-----|--------------------|--|
| 2 | Operation | Update the information. Dynamic: click the name to show dynamic temperature. |
| 3 | Detail information | staff information and body temperature trend display, click or roll the mouse wheel, switch to the body temperature chart to the one day . |

39.2 Archives Search

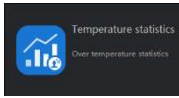
Procedure:

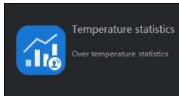
- Step 1 Input the name.
- Step 2 Select the face library.
- Step 3 Click “Search” to query the archives search.
- Step 4 The result will show on interface.
- Step 5 Click “Export” to export the result to local folder.

Figure 39-2 Archives search



40 Temperature Statistics

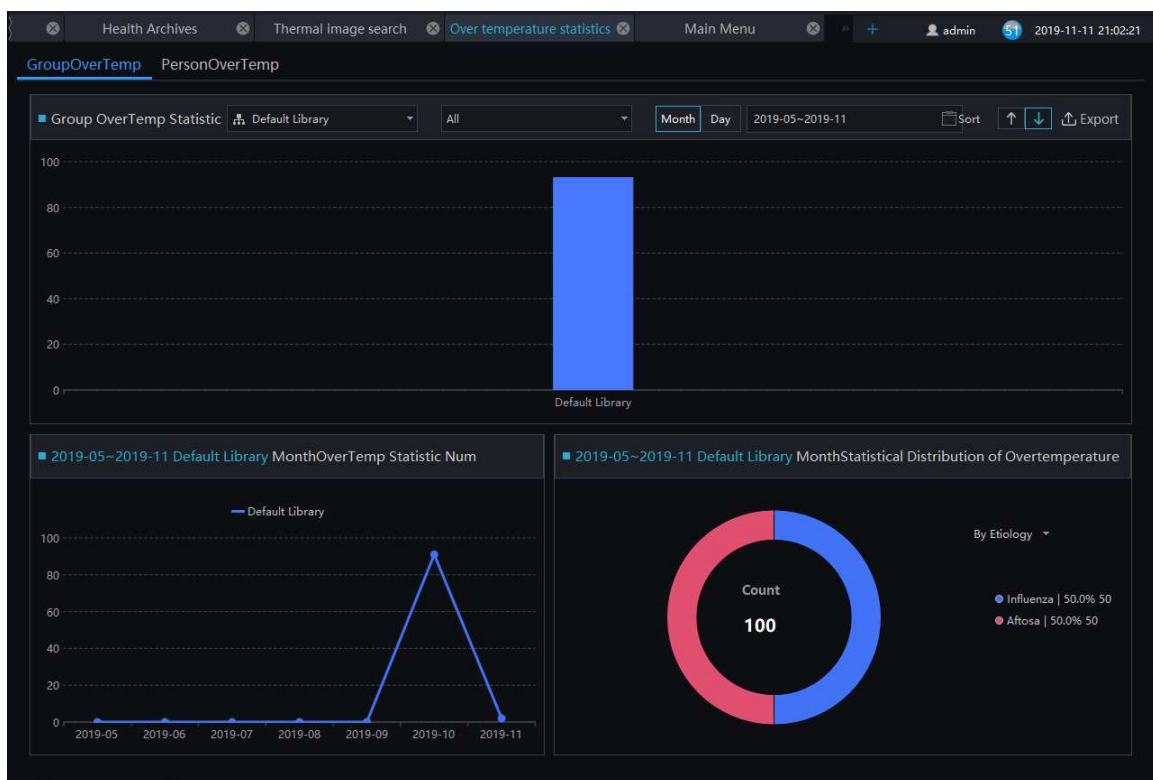


On the main menu page, Click  to view more detailed interface, as shown in Figure 41-1.

NOTE

This function only supports temperature detection cameras.
Only processed over-temperature alarms are counted in the statistics.

Figure 40-1 Temperature Statistics



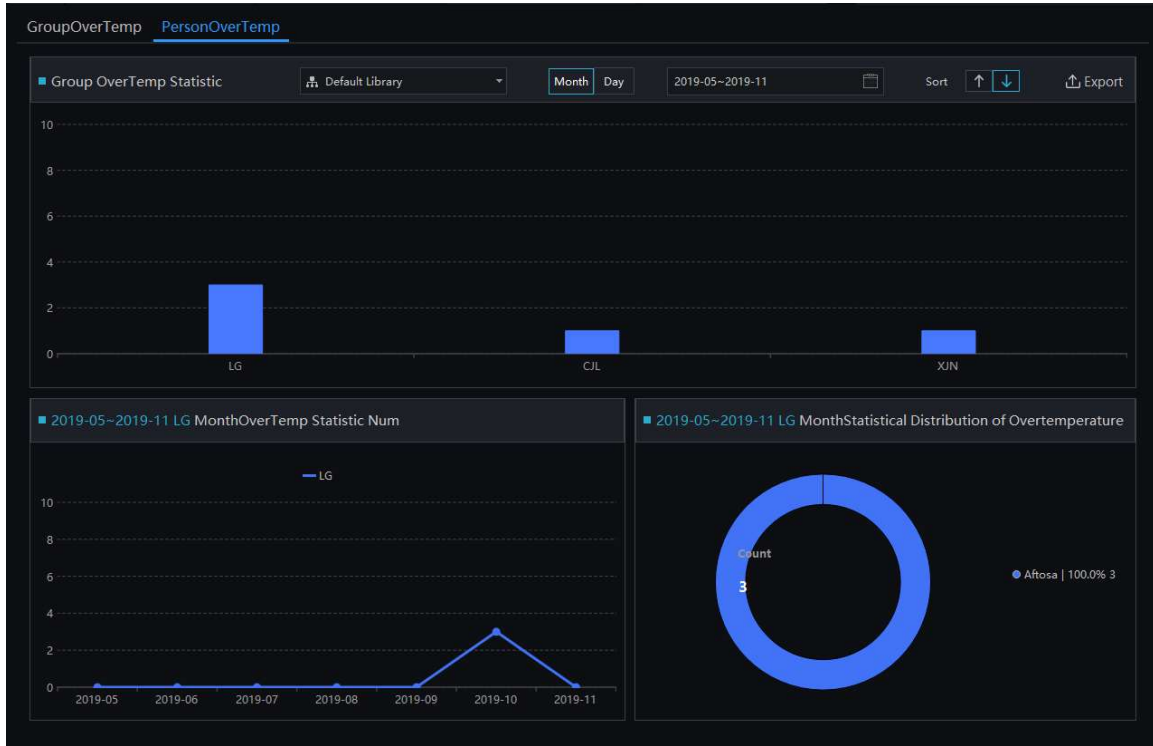
40.2 Group Over Temperature

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.

40.3 Person Over Temperature

Figure 40-2 Person Over Temperature



41 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 41-1.

Figure 41-1 Thermal image interface

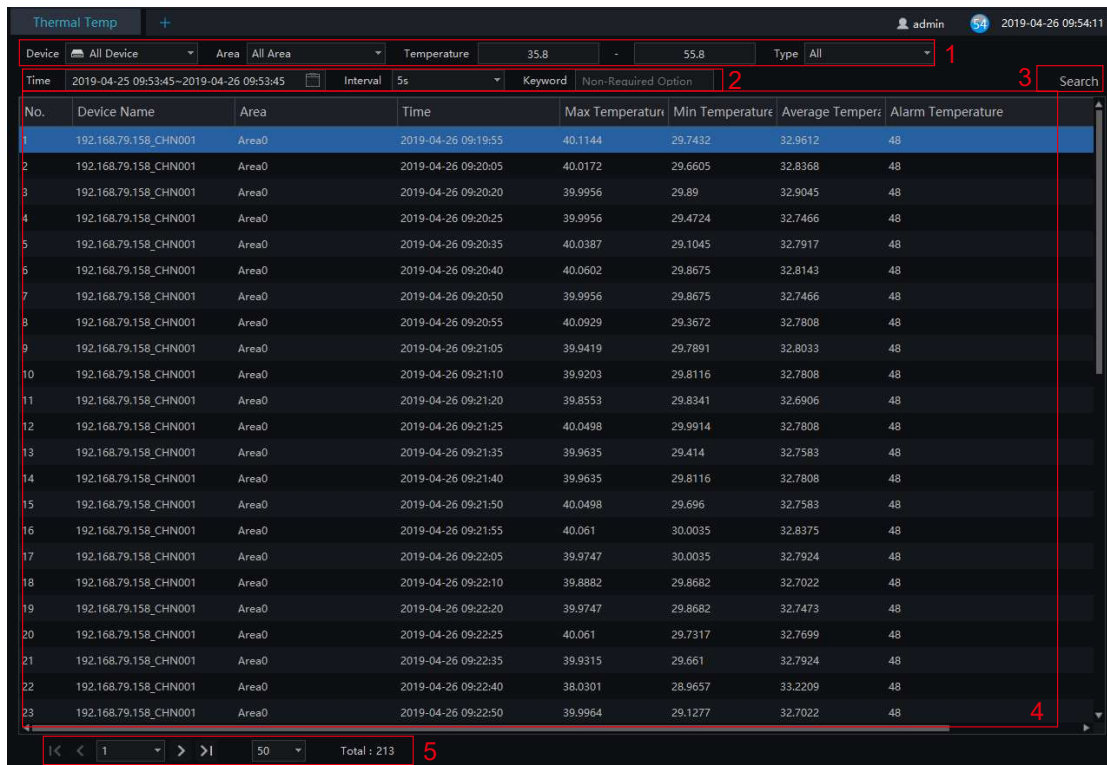


Table 41-1 Temperature alarm

| No. | Function | Instruction |
|-----|------------------------------|---|
| 1 | Temperature querying setting | Setting temperature search structure, Starting / Ending time, processing status |
| 2 | Querying condition | Start and end time, interval and keyword |
| 3 | Search | Search by the setting conditions |
| 4 | Displaying information | Basic information display of temperature alarm |

| No. | Function | Instruction |
|-----|------------------|---|
| 5 | Page information | Page number, number of pages per page, total Switch to next page |

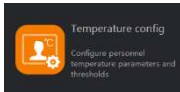
Procedure:

Step 1 Choose the group / Organization .

Step 2 Setting Searching starting / ending time, processing.

Step 3 Click “ Search” the temperature alarm recording.

42 Thermal Image Configuration

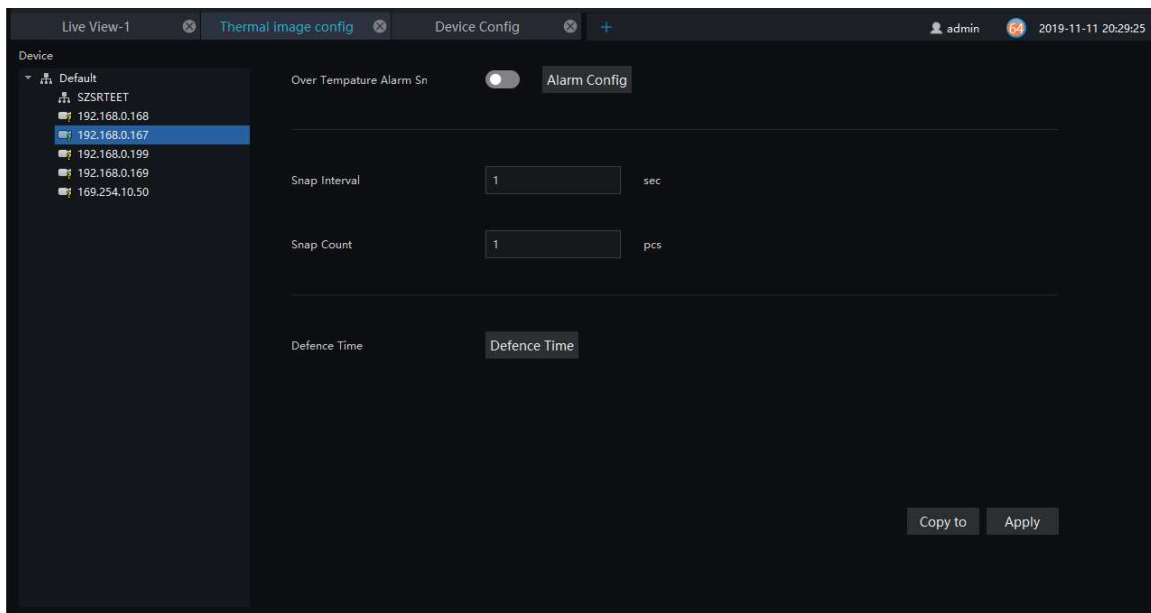


On the main menu page, Click  to view more detailed interface, as shown in

NOTE

This function is only subject to thermal cameras.

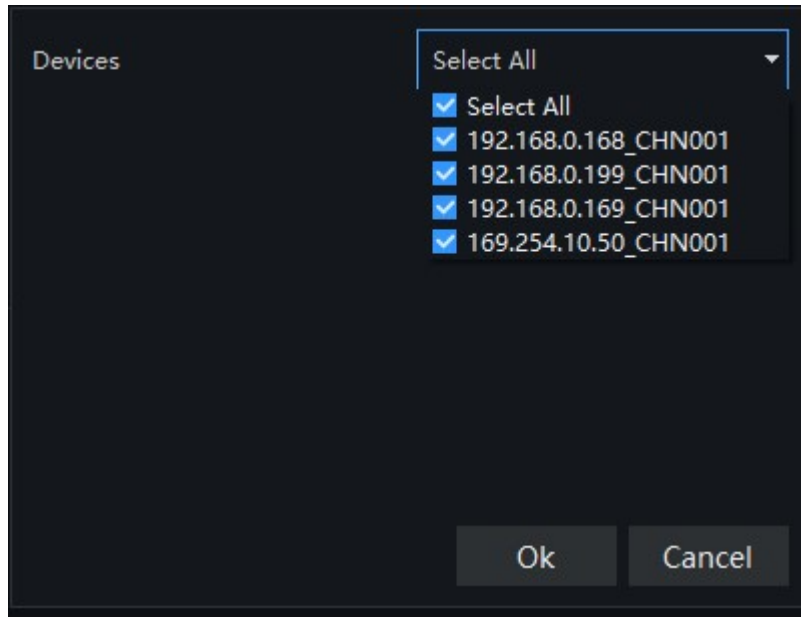
Figure 42-1 Thermal image configuration



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 42-2

Figure 42-2 Copy to



43 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 43-1.

Figure 43-1 Temperature search interface

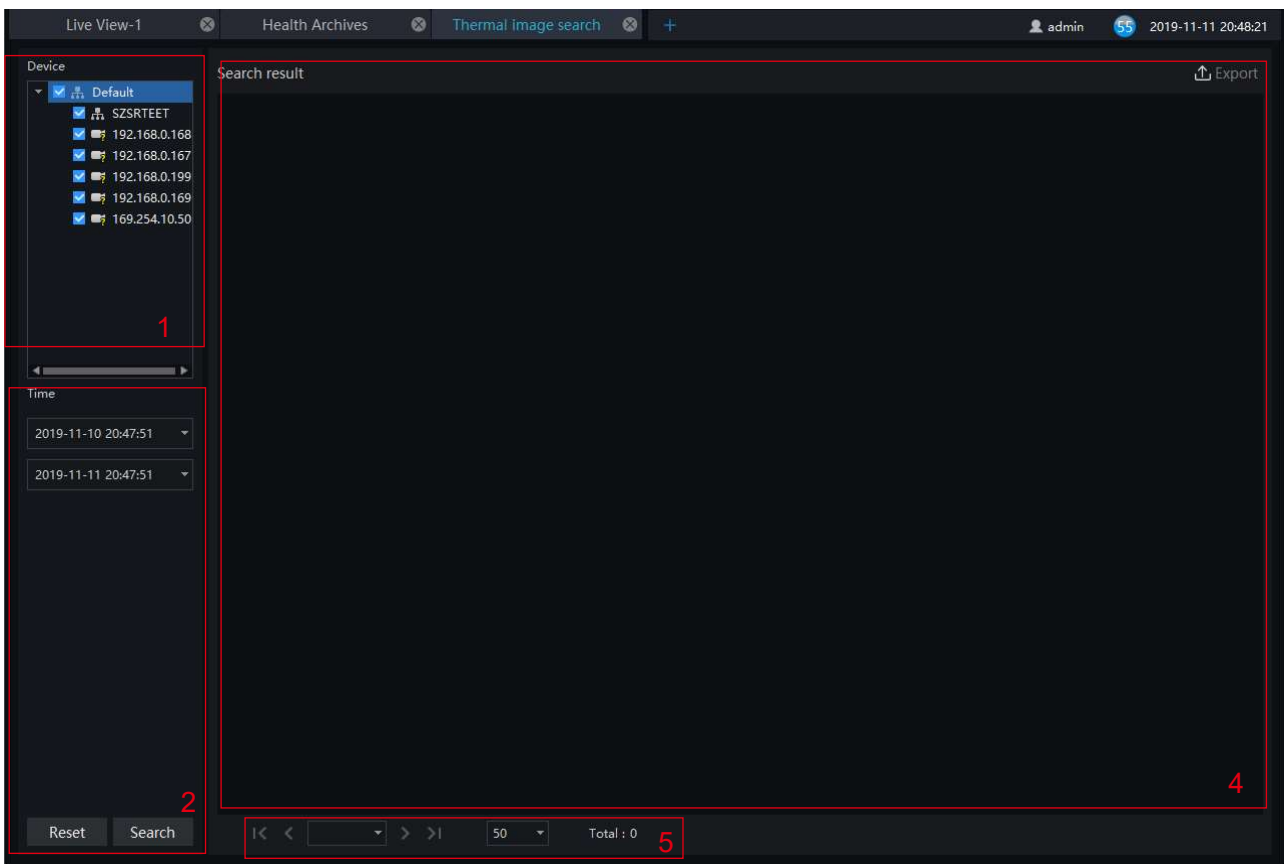


Table 43-1 Temperature search

| 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. |

| No. | Function | Description |
|-----|------------------|---|
| 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.