DN SERIES

CMS Server-Client

Installation and Operations Manual

Model Number: DN Series Network

CMS Server-Client

Dante Security
CMS User Manual

Issue: V1.8.2
Date: 2025-05-28

Introduction

Overview:

This document provides a comprehensive guide to the configuration and use of the Video Management CMS.

Audience:

This user guide is intended for the following users:

- Technical Support Engineers
- System Managers
- System Operators

Symbol Guide

The following symbols are used throughout the document to highlight important information:

Symbol	Description
DANGER	Indicates a high-risk hazard that could result in death or serious injury if not avoided.
WARNING	Indicates a medium or low risk hazard that could result in moderate or minor injury.
CAUTION	Indicates a medium or low-risk hazard that could lead to moderate or minor injury if not avoided
TIP	Offers helpful advice to solve problems or save time
NOTE	Provides additional information to emphasize key points.

Server Name

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

Content

1 Platform Description

The platform can be used for video management across various monitoring scales. It supports centralized management, distributed deployment, and multi-user remote access. The system offers functions including 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 more. It meets the needs of a wide range of video surveillance scenarios.

1.1 System Function

- **Multi-device connectivity**: Supports connection to various front-end devices such as IPC, NVR, face capture camera, panda camera, alarm box, face recognition temperature panel, access controller, radar, passenger flow statistical camera, network speaker, and more.
- **Centralized management & distributed deployment**: Enables unified management of resources like users and devices, while allowing server functions to be distributed across multiple physical machines.
- **Authority management**: Assign different functional permissions to different users.
- **Device management**: Supports automatic device discovery, manual device addition, and batch device import.
- **User rating management**: Integrates administrative organizational structures to allow for hierarchical user management. Higher-level users can manage lower-level ones.
- **Organizational management**: Restricts users to viewing camera content only from within their assigned organization.
- **Real-time monitoring**: Supports multi-screen preview layouts and round tour previews.
- **Video playback**: Allows synchronous playback of multiple video feeds.
- **Video download**: Enables downloading of recordings from NVR and DVR devices to local clients.
- **Map management**: Supports real-time video preview using electronic maps.
- **Real-time alarm**: Displays alarms triggered by front-end devices in real-time.
- **Data statistics**: Collects and reports alarm data and device online rates.
- **Personnel information management**: The face recognition library supports multi-level management and bulk import of personnel data.
- **Face recognition comparison**: Displays real-time face captures and compares them against the database for identification.
- **Image search**: Supports fuzzy searching of faces and identification of similar faces within the database.
- **Attendance management**: Utilizes the face library for employee attendance tracking.
- **recognition**: Gathers statistics on vehicles, people, and other targets using AI-powered analytics.
- **Health archives**: Maintains personnel health records and displays individual body temperature data.
- **Vehicle identification**: Provides real-time viewing of vehicle license plate snapshots along with corresponding warehousing information.
- **Face-based attendance**: Supports managing employee attendance and face punch-ins via face detection cameras.
- **Temperature monitoring**: Uses human body thermometers for temperature checks and updates health archives accordingly.
- **imaging management**: Includes previewing, configuring, searching, retrieving history, and inspecting thermal imaging data.
- **Monitoring center**: Offers a visual, all-in-one management dashboard for monitoring real-time data, conventional surveillance, and AI analytics.
- **Temperature measurement overview**: Previews real-time temperature video, displays temperature measurement details, and provides daily summary statistics.
- **Classification query**: Allows retrieval of captured image data for strangers, registered users, and filtered individuals, including detailed image information.
- **Personnel tracking**: Visualizes movement paths of captured individuals on a GIS map.
- **Target on-screen person**: Displays related faces of a tracked individual, with options to export and add to the face library.

- **Event linkage**: Configures trigger conditions for alarms. When triggered, the system can send alarms, control external alarm devices, or send email notifications.
- **TV Wall**: Configure a TV wall layout, bind channels to it, and push live streams via a decoder. Video is displayed instantly on the TV wall.
- **Access control**: Set real-time access permissions and manage the access control system.
- **Parking lot management**: Add, delete, modify parking lots and configure parking lot parameters.
- **Regional management**: Manage area groupings, and query summaries for regions and parking lots.
- **Capture retrieval**: Search for locally stored snapshots triggered by linkage events.

1.2 System Components

1.2.1 Central Management Server

The Central Management Server manages users, permissions, devices, servers, alarms, electronic maps, and face databases. It can run on a dedicated physical server or be installed with other components.

To access features, users must first connect to the Central Management Server for authentication, and then connect to the Media Distribution Server and Intelligent Analysis Server.

1.2.2 Database Server

The Database Server stores system configuration data for the Central Management Server and Intelligent Analysis Server using MySQL. It runs as a server and is installed with the Central Management Server.

1.2.3 Media Distribution Server

The Media Distribution Server delivers audio and video streams from devices to users with high performance and low latency. It runs as a service and may be installed independently or with other components.

When installed on a separate server, the Media Distribution Server must be configured with the Central Management Server's IP address for centralized control.
Performance benchmarks:

Table 1-2 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

This server is dedicated to face recognition applications and supports only cameras with face detection capabilities. It runs as a service and can be installed separately or with other components. For optimal performance, it is recommended to install it on a dedicated physical server.

Supported configurations for version V1.6 using CPU-based recognition:

Type	Model	ROM	Face Detection Channels
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

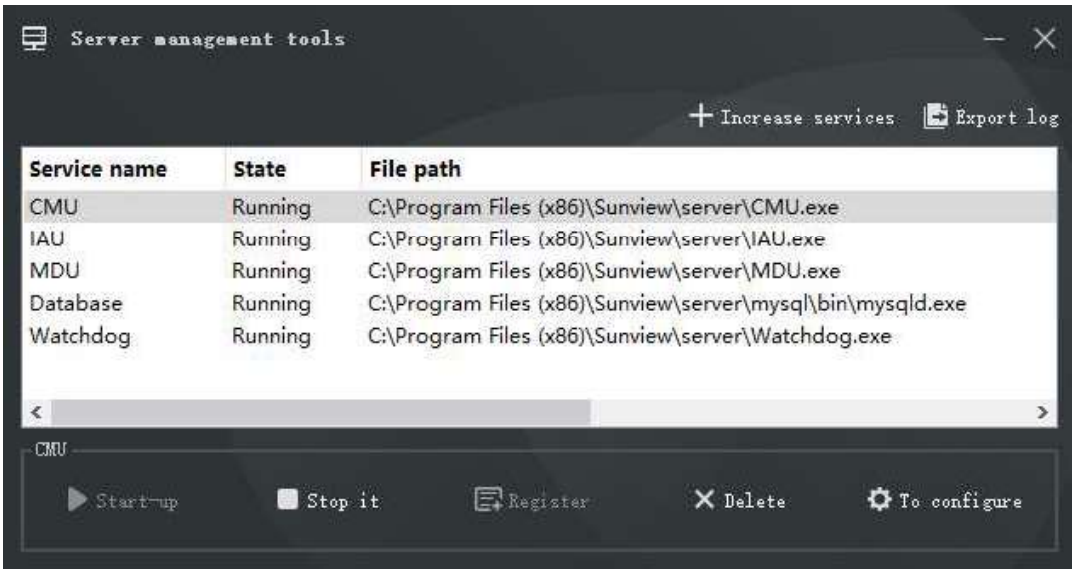
NOTE

Fewer connected cameras result in better video quality. Dense traffic (more faces) may degrade video quality. Adjust server capacity according to actual requirements.

1.2.4.1 Server Management Tool

This tool manages platform server components (excluding the client). It displays component status and allows users to start, stop, delete, or manually add services. If a service fails to start, the system tray will display a flashing alert. As shown in figure 1-1. The tool launches automatically upon successful installation and allows language switching via right-click.

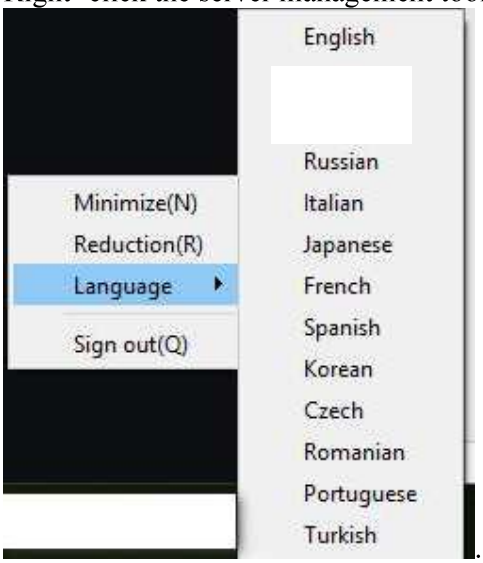
Figure 1-1 Server Management UI



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

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

Right- click the server management tool to switch language of tool.

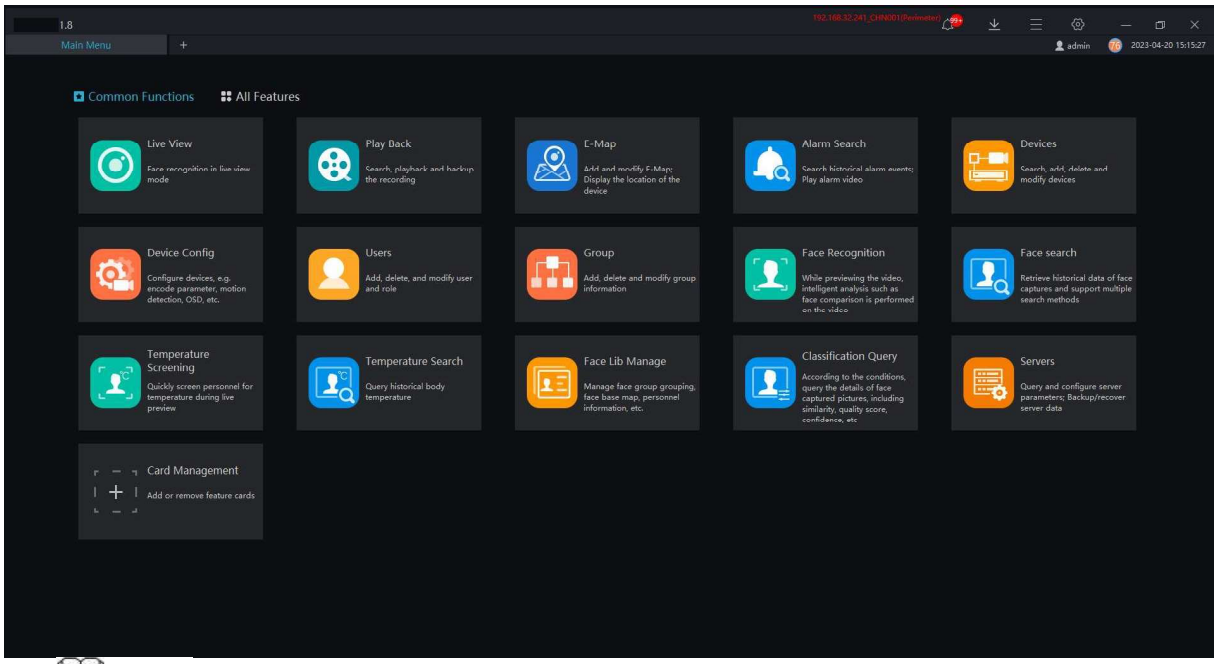


1.2.5 Client

1.2.5.1 PC Client

The PC Client is compatible only with Windows OS. It provides access to real-time video, playback, and device, user, server, and alarm management functions. It supports both standard and administrator users for integrated resource management.

Figure 1-2 Client interface



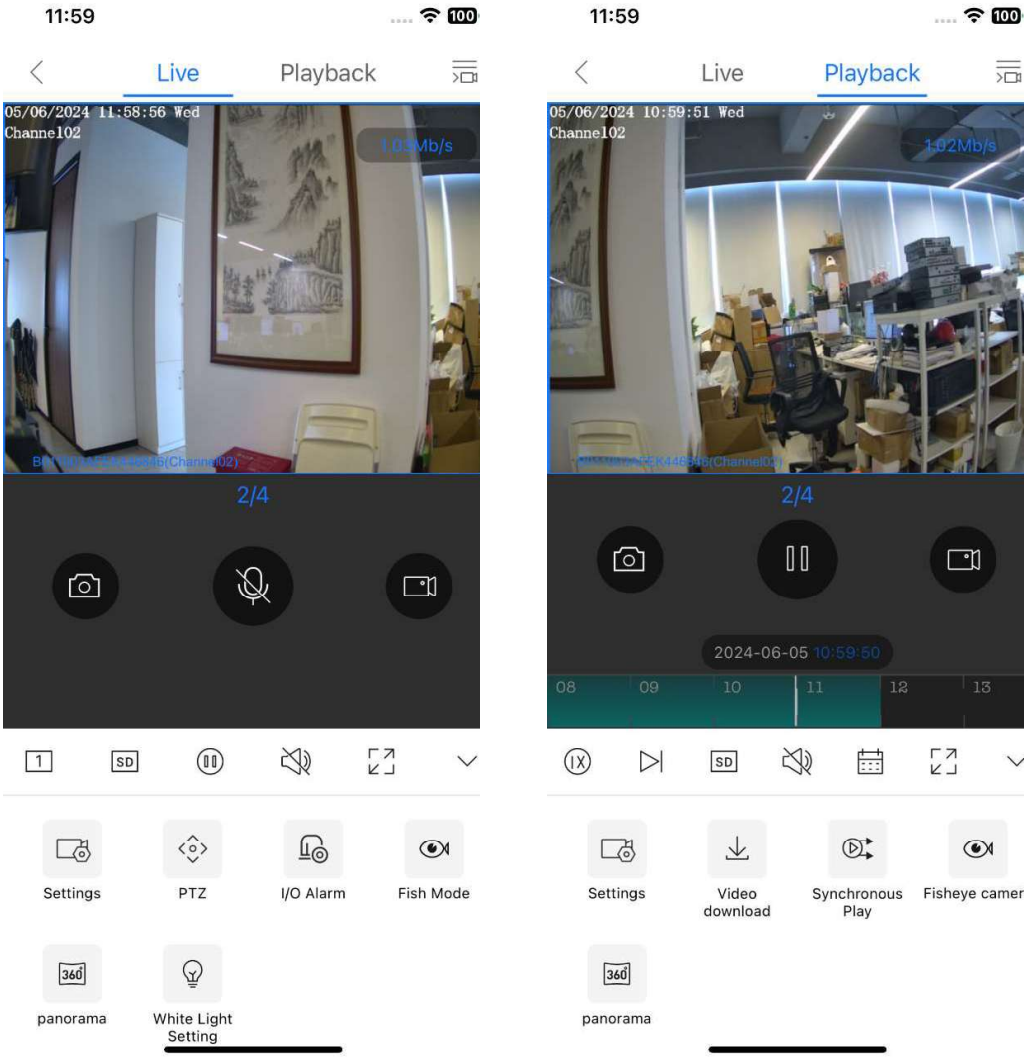
NOTE

If the client and server versions do not match, a notification will appear: "Client and server versions do not match." Ensure both components are synchronized to prevent issues.

1.2.5.2 Mobile Client

The Mobile Client enables users to monitor video feeds wirelessly. It provides remote access to:

- Real-time video streams
- Playback of recorded video
- Device alarms and alerts
- Remote control of supported devices



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	8GB or more	8 GB or more	8 GB or more	8 GB or more
Network Card	Gigabit/s				
HDD	50 GB or Above	50 GB or Above	50 GB or Above	50 GB or Above	50 GB or Above
OS	Microsoft® Windows® 7 Pro (64 bit) Microsoft® Windows® 10 Pro (64 bit) Microsoft® Windows® 10 Enterprise (64 bit) Microsoft® Windows® Server 2012 Microsoft® Windows® Server 2016				

Software	DirectX 11 or above	——	——	——	——
Display Resolution	1600×960 and above, default 1920x1080	——	——	——	——
Video Card	——	——	——	——	——
GPU	——	——	——	——	NVIDIA GTX 1050 or better

1.4 Deployment Planning

CAUTION

This section is intended to help system administrators understand the deployment options available before installing the platform. Based on your monitoring needs, user may choose from three deployment types. The platform is highly scalable and supports the following methods:

- **Mini Method –** All components are installed on a single machine.
- **Middle Method –** The client and server components are installed on different machines.
- **Large Method –** All components are distributed across multiple machines.

1.4.1 Mini Method (Standalone Deployment)

In the Mini Method, all platform components—including both server and client—are installed on the same physical machine. This configuration is ideal for small-scale monitoring setups and is easy to deploy.

Figure 1-3 Mini method

1.4.2 Middle Method (Distributed Deployment)

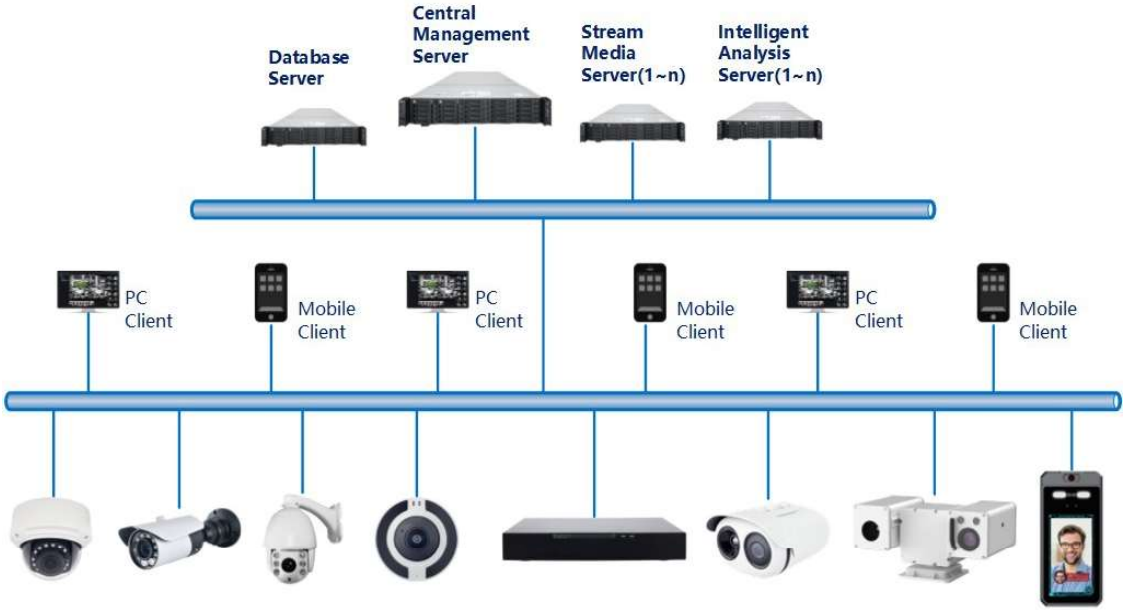
In the Middle Method, all server components are installed on one physical machine, while the client is installed on one or more separate machines. This layout is suitable for medium-scale deployments.

Figure 1-4 Middle method

1.4.3 Large Method (Distributed Deployment)

In the Large Method, each server component is installed on a different machine, and multiple client machines can be used. You may deploy one or more Media Distribution Units (MDU) and Intelligent Analysis Units (IAU) depending on your actual requirements. This configuration is suitable for large-scale or enterprise-level deployments.

Figure 1-5 Large method



2.1 Setup

The **Setup** option provides a simplified installation process for the **Mini Method**. No manual configuration is required. The platform will be installed automatically on a single machine and placed in the default directory: C:\Program Files (x86)\CMS.

After installation, both the server components and client software will start automatically.

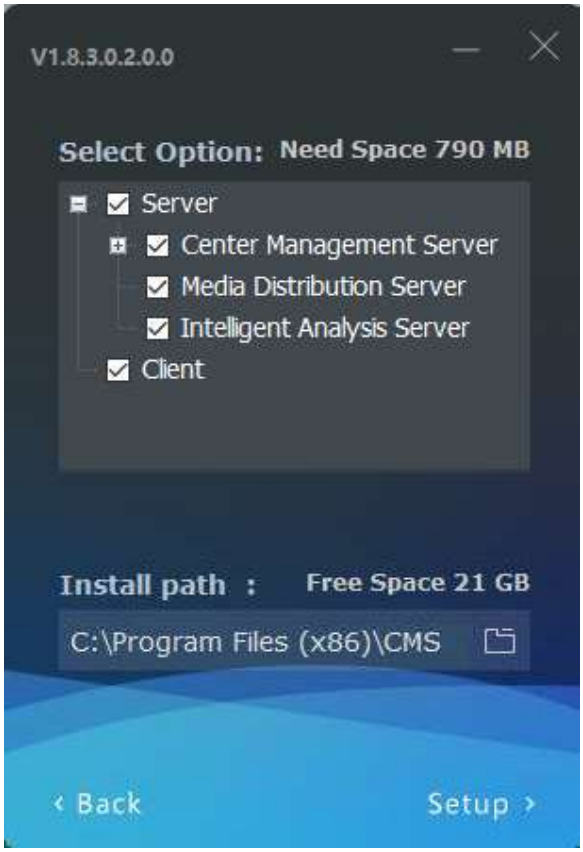
Figure 2-1 One clicks installation

2.2 Custom Setup

Custom Setup allows you to choose from the three available deployment methods and install components accordingly:

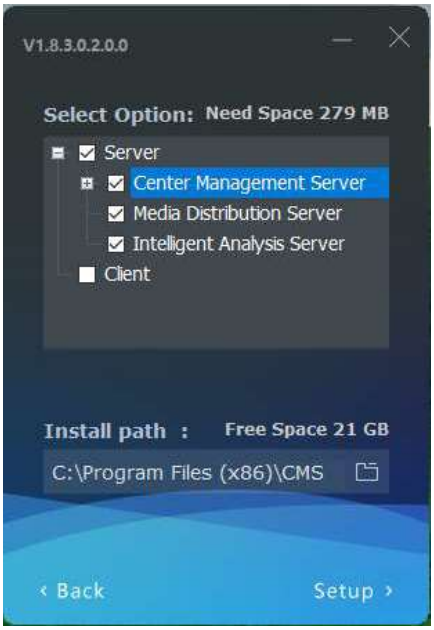
- Mini method: Installs all components on a single machine. Similar to the one-click setup.

Figure 2-2 Installation interface

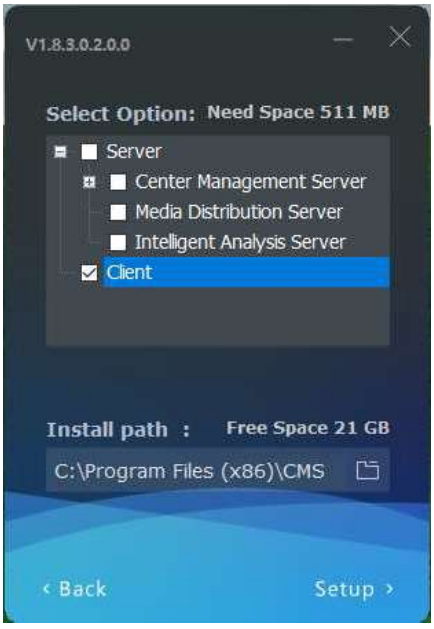


- Middle method: Installs the server on one machine and the client on another, forming a distributed deployment.

Figure 2-3 Server installed on a machine

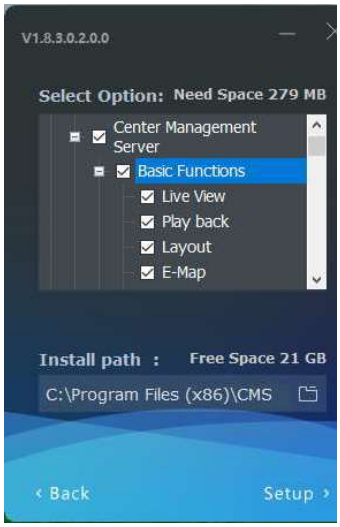
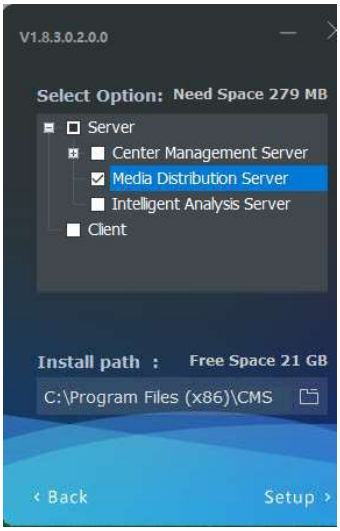
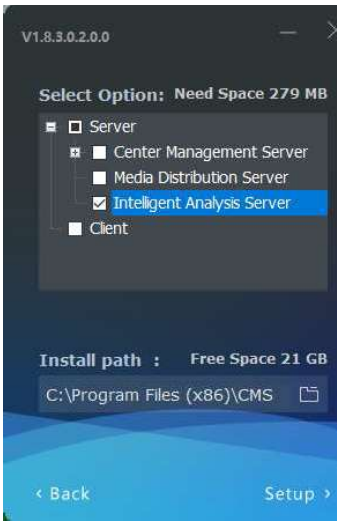


Client installed on another machine



- Large Method: Installs all components on separate machines for a fully distributed system.

Figure 2-4 Description of installing

Install **CMU** (Central Management Unit) on Machine A. During installation, user may select which features to include.	Install **MDU** (Media Distribution Unit) on Machine B.	Install **IAU** (Intelligent Analysis Unit) on Machine C.
		

NOTE

In distributed deployments, you must either disable the firewall or allow the platform through it. Otherwise, remote login attempts may be blocked, resulting in login failure.

After installation, use the **Server Management Tool** to configure the IP address of the Central Management Server for both the Media Distribution Server and Intelligent Analysis Server. This enables unified control and communication.

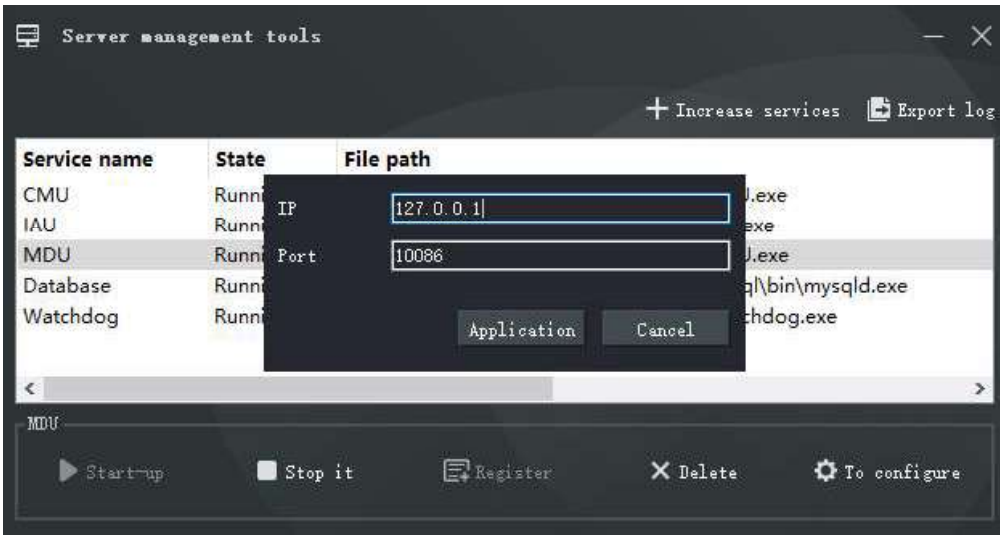
The tool appears automatically in the system tray after installation. To configure a component, open the main interface, select the relevant service, and click “Configure “as shown in figure 2-5.

NOTE

If installation fails: Try disabling any firewall or antivirus software and attempt installation again.

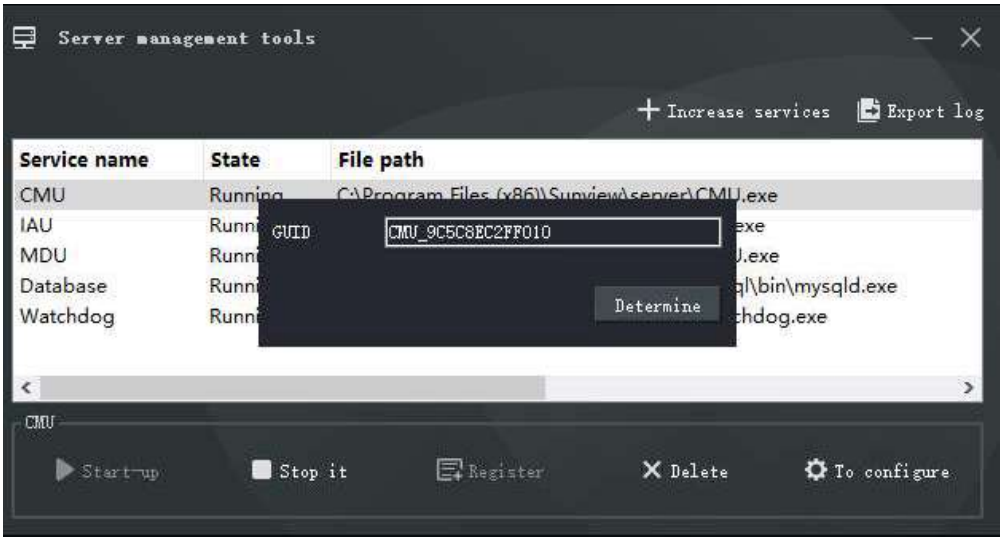
Once the server has been installed successfully, the **Server Management Tool** will launch automatically. Look for the system tray icon  , then click to access the menu.

Figure 2-5 Server manager tool



2.3 Retrieve Password

Figure 2-6 GUID



If a user forgets their password, they must provide the **GUID**. A temporary one-day password will be issued, allowing the user to log in and create a new password.

3 Login

After installing the server, double-click the desktop icon to open the CMS Client.

Enter the following information in the login interface:

- **Username**
- **Password**
- **IP address of the Central Management Server**

Click **"Login"** to access the system.

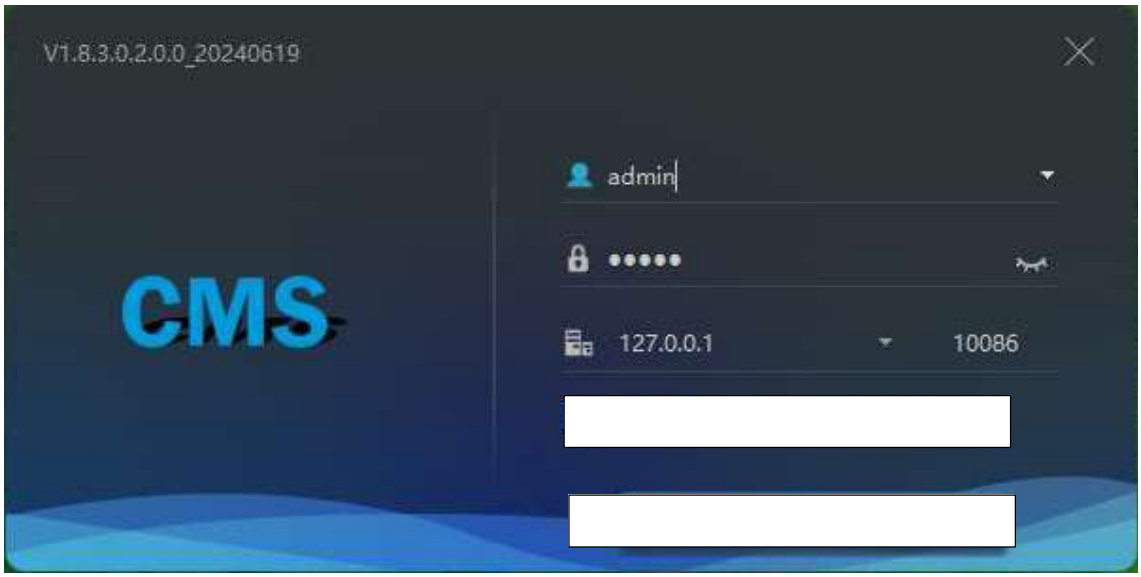
NOTE

Default Login Credentials

Username: admin, Password: admin

Important: For system security, change the default password immediately after your first login.

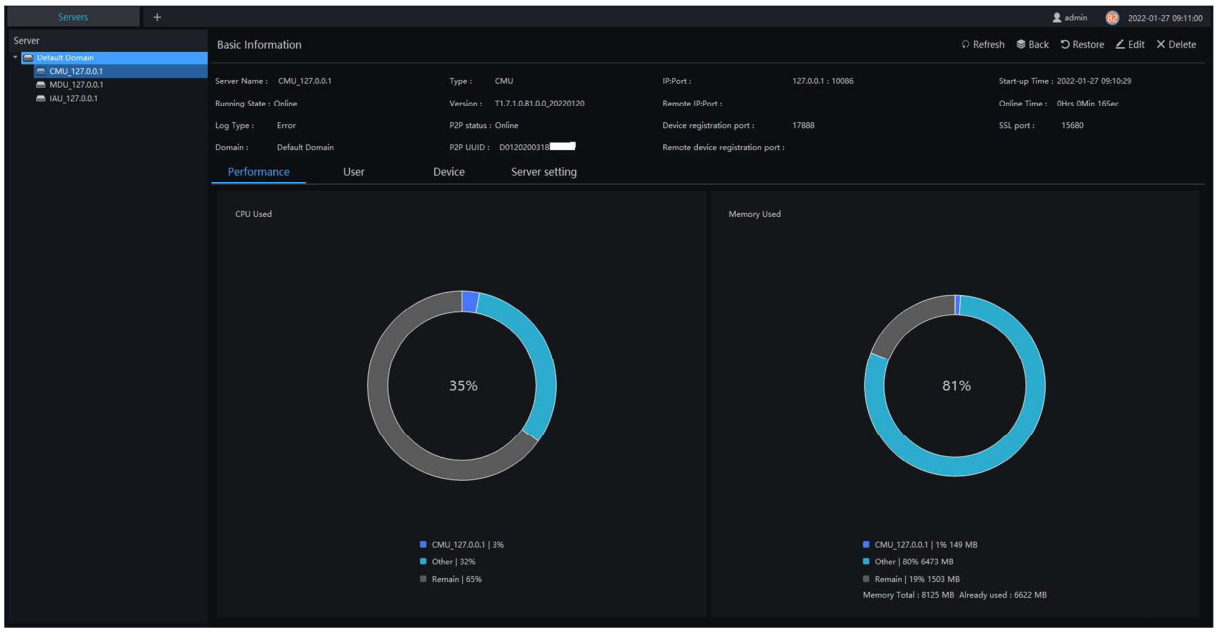
Figure 3-1 Login interface



Optional: Use P2P UUID Instead of IP Address

Instead of entering the server's IP address, user may also log in using the **P2P UUID**, which is visible under **"Servers > CMU"** when the **P2P status** shows as **online**.

Figure 3-2 P2P UUID



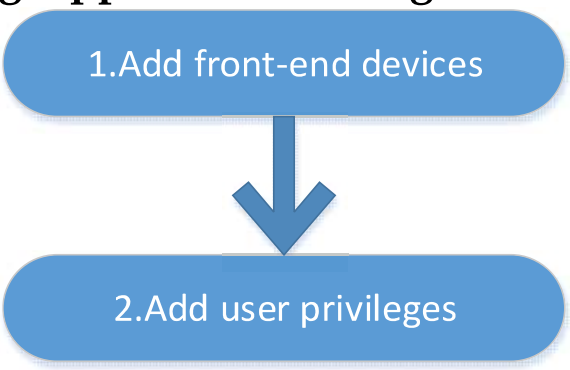
4 Quick Start

Once the client and server are successfully installed and running, the system administrator can log in through the client to begin using the platform. The platform supports both **Basic Monitoring Applications** and **Intelligent Applications**.

NOTE

Intelligent Applications are used for features such as face recognition and require cameras that support face detection, such as face capture cameras and body temperature detection devices.

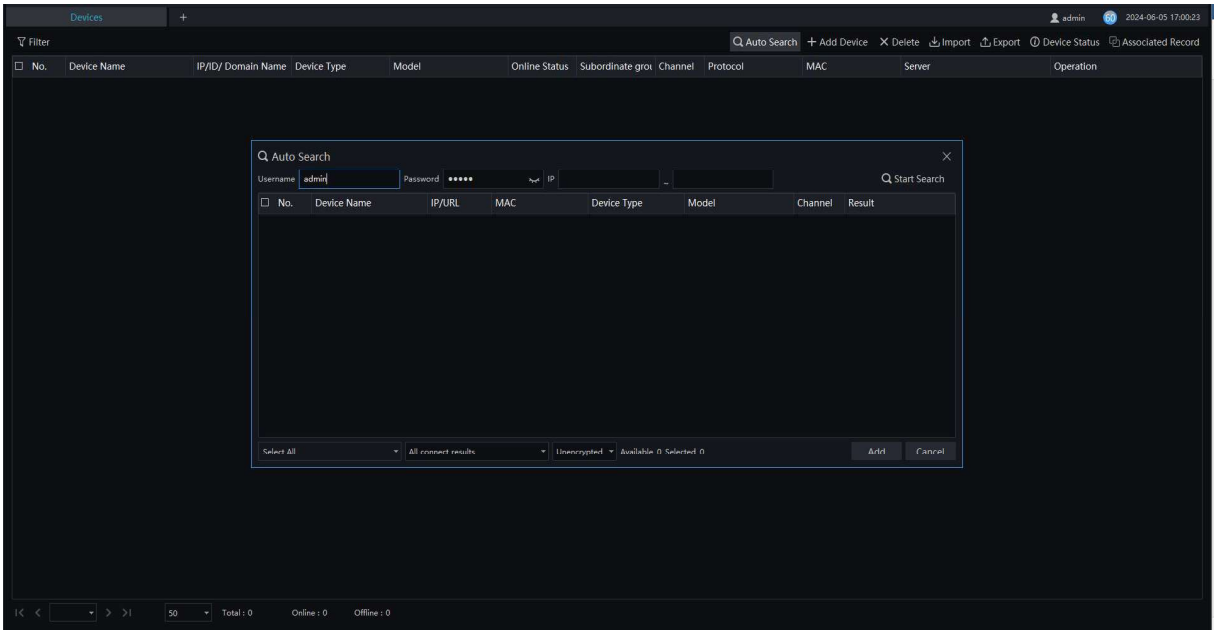
4.1 Monitoring Application Configuration Process



4.1.1 Add Front-end Device

- From the main interface, go to **Device Management**.
- If the platform and device are on the same network segment, user may quickly add devices using **Auto Search**. As shown in Figure 4-1.
- After selecting a device, click **"Add"**.
- Assign the device to the appropriate server.

Figure 4-1 Add device



4.1.2 Add User Permissions

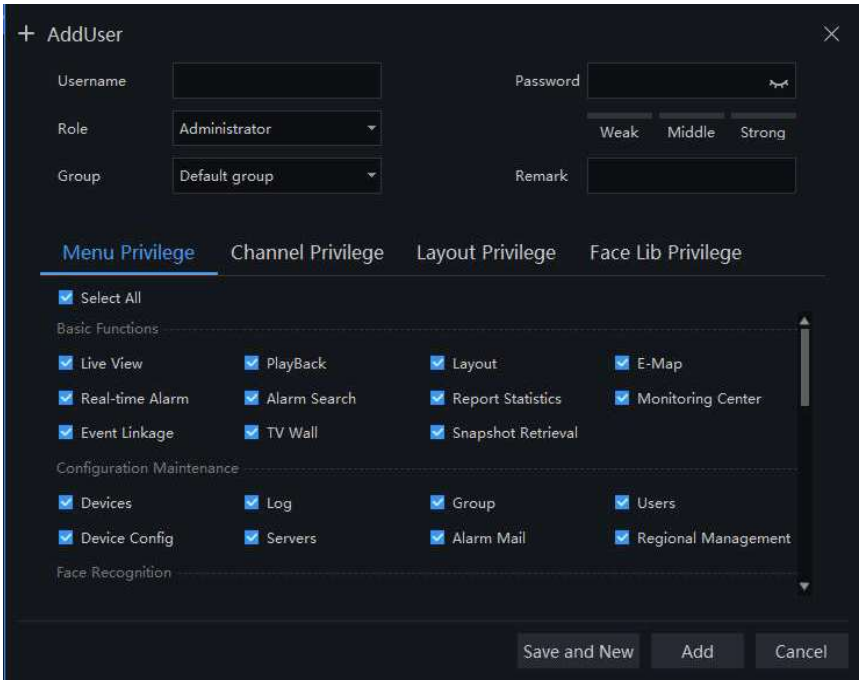
The system includes default roles: **Administrator** and **Operator**. User may create additional users based on these roles.

- Assign **menu permissions** and **channel permissions** to each user. As shown in Figure 4-2:

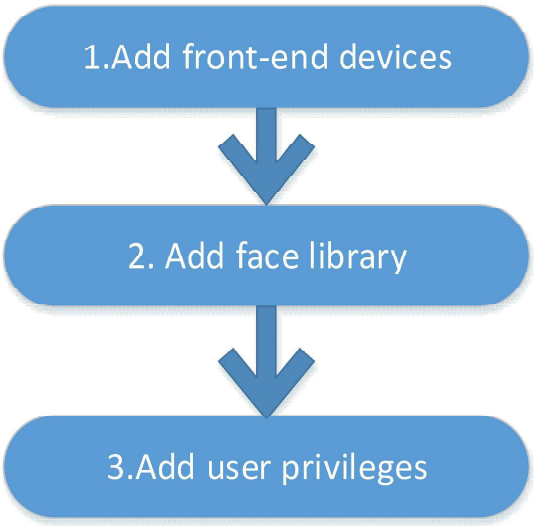
NOTE

For basic monitoring applications, assigning personnel file permissions is not required. These are only used for Intelligent (Face Recognition) Applications.

Figure 4-2 Add user



4.2 Intelligent Application Configuration Process



4.2.1 Add Front-End Device

Refer to steps in section **4.1.1**.

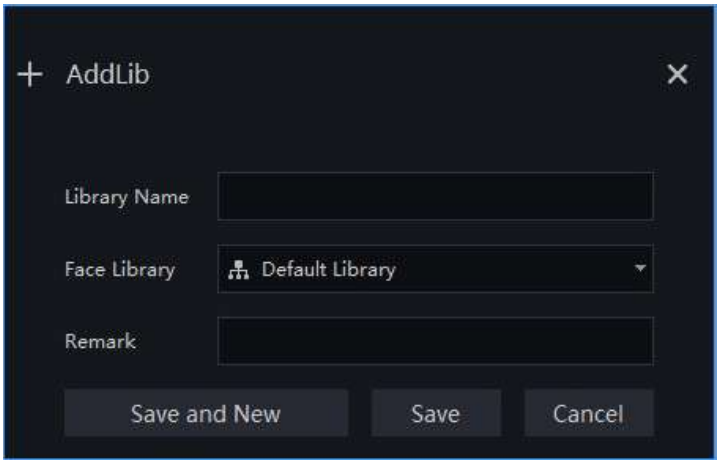
4.2.2 Add Face Database

This function supports cameras with face detection capabilities.

NOTE

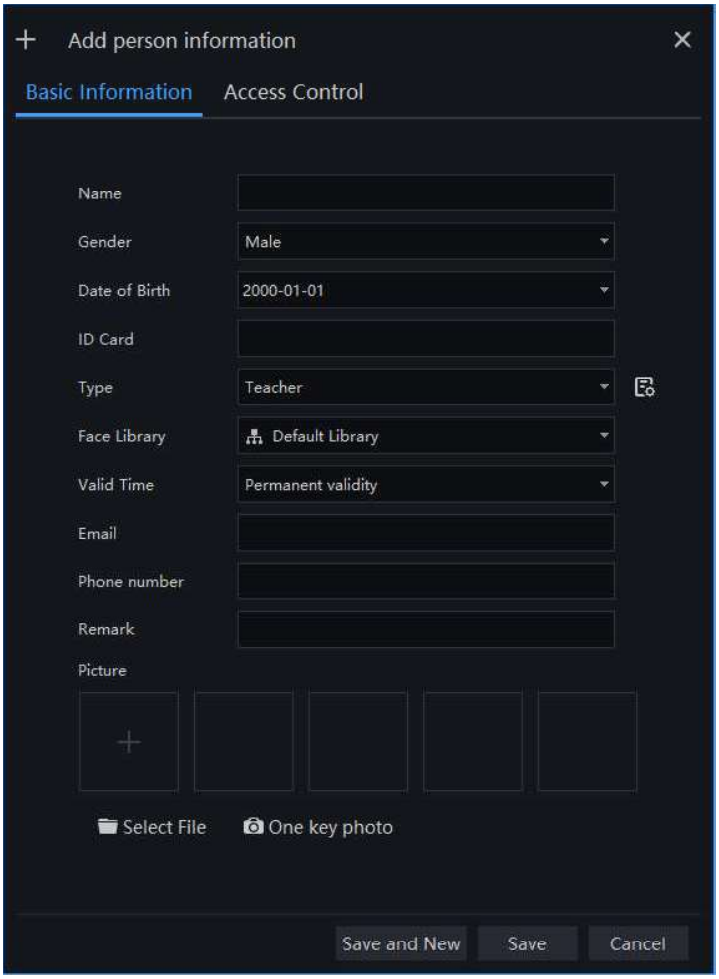
- From the main interface, open **Face Lib Manage**.
- Click to add a **new face library** as shown in Figure 4-3.

Figure 4-3 Add face library UI



Select the face library and add personnel information by uploading a face photo, as shown in Figure 4-4

Figure 4-4 Person enroll

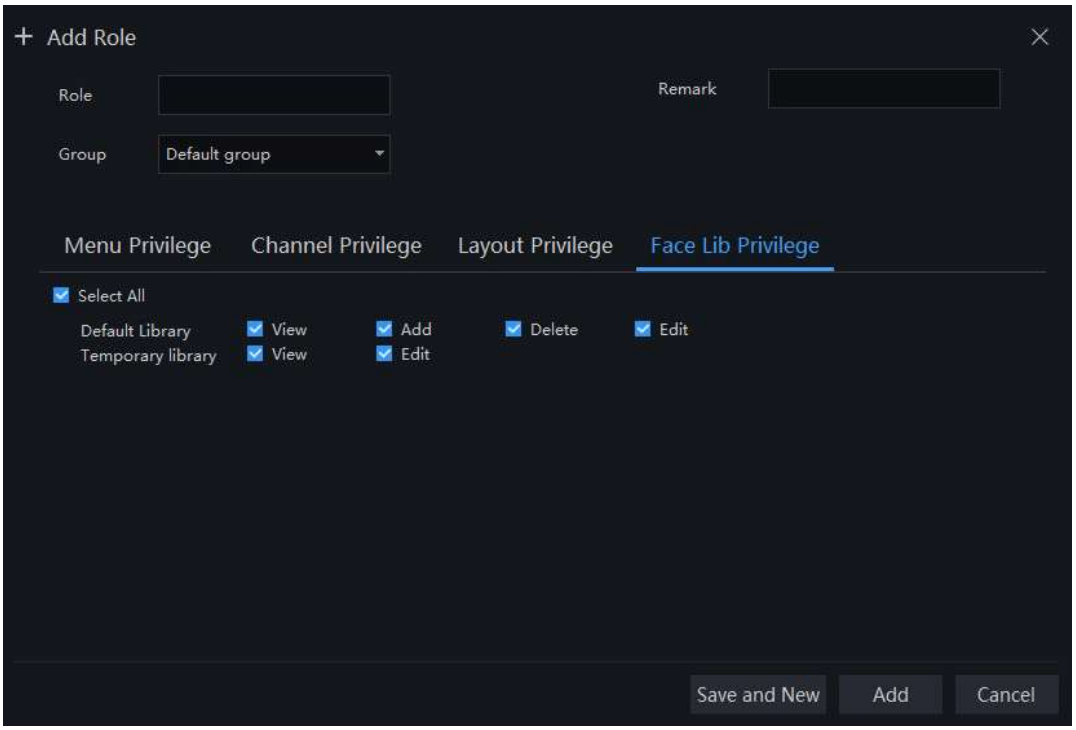


4.2.3 Add Role Permissions

Refer to section **4.1.2** for steps on assigning **menu** and **channel** permissions.

- For Intelligent Applications, you also need to assign **personnel file permissions**. As shown in Figure 4-5.

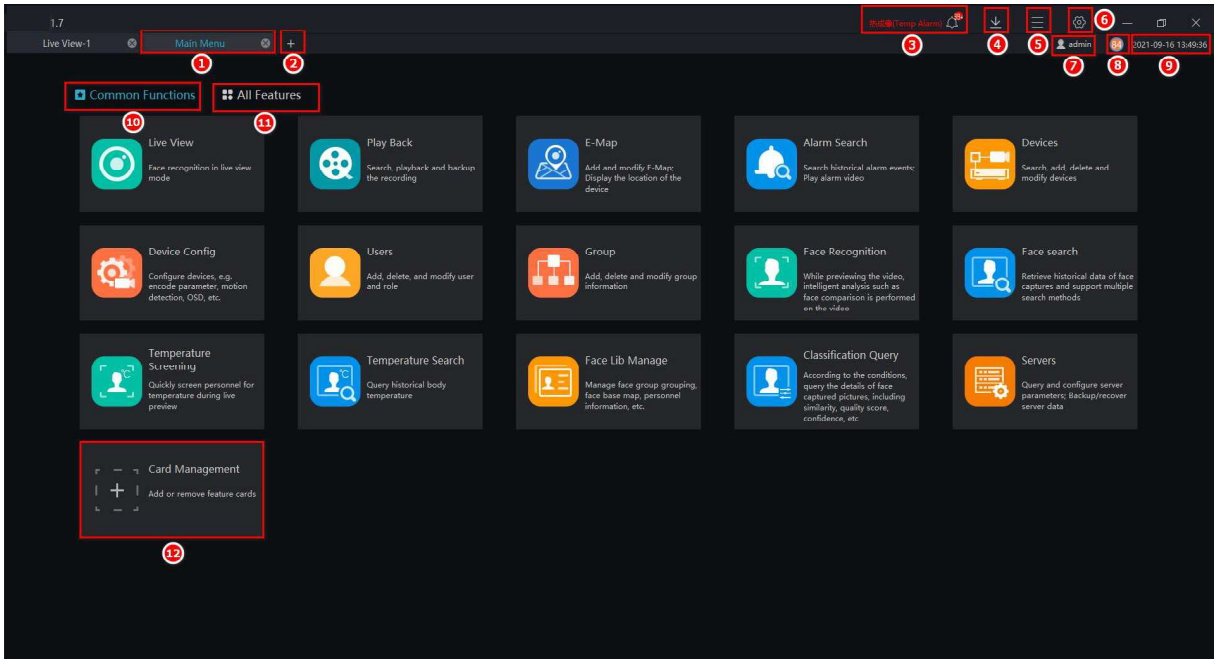
Figure 4-5 Add role



5.1 Main Menu Page

After the user logs in, they are directed to the main function interface, as shown in the figure.

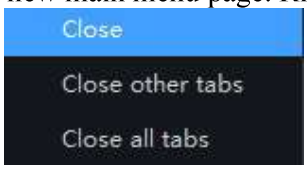
Figure 5-1 Main menu page

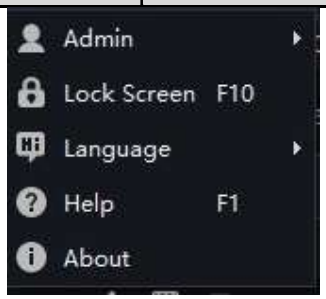


TIP

Click any function icon in the display area to open its respective module. User may also drag function windows outward to display multiple pages at once, which allows for multi-screen viewing of detailed information.

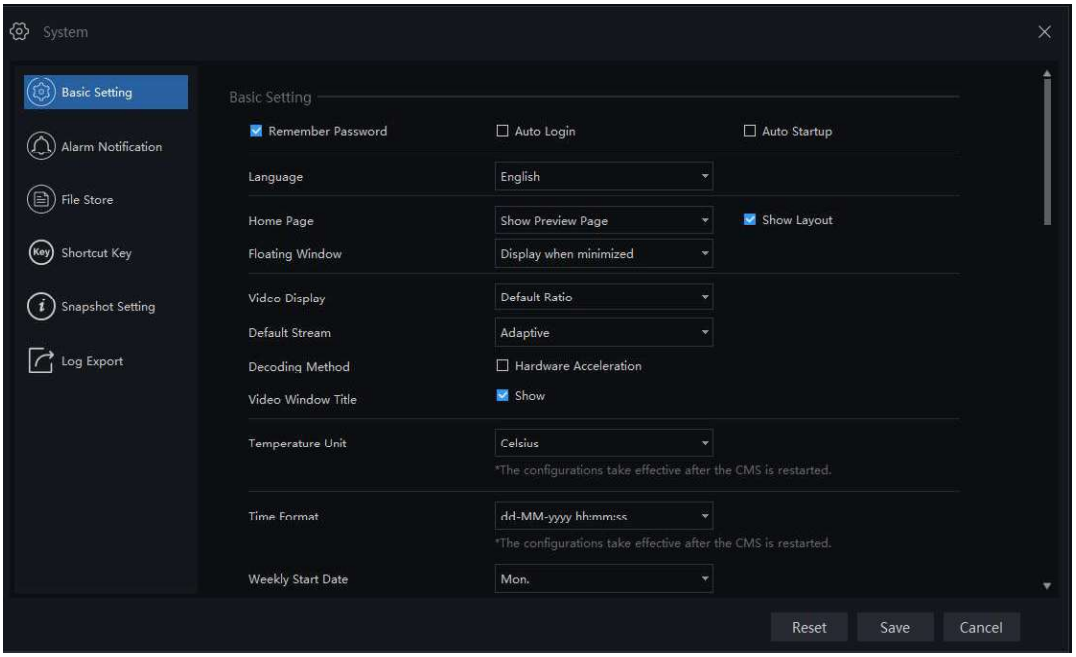
Table 5-1 Main Interface Introduction

No.	Function	Description
1	Main menu page	Main landing page where all platform functions can be accessed.
2	New	Create a new main menu page. Right-click for quick actions. 
3	Alarm Message	Displays alarm notifications. Click to access the real-time alarm interface (see Chapter: Real Time Alarm).
4	Backup	View backup tasks and backup history.

No.	Function	Description
5	Operate	 - **User**: Switch user accounts or change passwords. - **Lock screen**: Lock the screen. Unlock using your login password. - **Language**: Choose from nine supported languages. - **Help**: Access the user guide. - **About**: View platform version details.
6	Setting	Access system configuration settings such as alarm notifications, file paths, snapshot settings, log exports, and more. Use the dropdown menu to select a specific setting. Click “Save” to apply changes as shown in Figure 5-2.
7	User	Displays the currently logged-in user.
8	Run status	Displays current CPU and RAM usage.
9	Date and Time	Shows the current system date and time.
10	Common Function	Frequently used functions can be added here for quick access.

No.	Function	Description
11	Function display area	All available modules are displayed here. User may drag and arrange function icons to customize the layout. **Basic Functions:** Live View, Playback, Layout, E-map, Real-Time Alarm, Alarm Search, Report Statistics, Monitoring Center, Event Linkage, TV Wall, Capture Retrieval, as shown in Figure 5-4. **Configuration Maintenance:** Devices, Log, Group, Users, Device Config, Servers, Alarm Mail, Regional Management, as shown in Figure 5-5. **Face Recognition:** Face Recognition, Face Lib Manage, Face Search, Face Match Config, Classification Query, as shown in Figure 5-6. **License Plate Recognition:** License Plate, License Plate Search, License Plate Manage, License Match Config, Parking Lot, as shown in Figure 5-7. **Multi-target Recognition:** AI Recognition, Intelligent Search, Traffic Statistics, Person Control, Traffic Area Config, People Flow Statistics as shown in Figure 5-8. **Attendance:** Attendance Preview, Attendance Statistics, Attendance Config, Time Tracking, as shown in Figure 5-9. **Temperature Monitor:** Temperature Screening, Temperature Search, Health Archives, Temperature Config, Temperature Statistics, as shown in Figure 5-10. **Thermal Imaging:** Thermal Image Preview, Thermal Image Config, Thermal Image Search, Thermal Image History, Thermal Imaging Inspection, as shown in Figure 5-11. **Access Control:** Real-Time Access Control, Access Control Inquiry, Access Control Configuration, as shown in Figure 5-12.
12	Card management	Add or remove feature cards from the Common Functions interface, as shown in Figure 5-13.

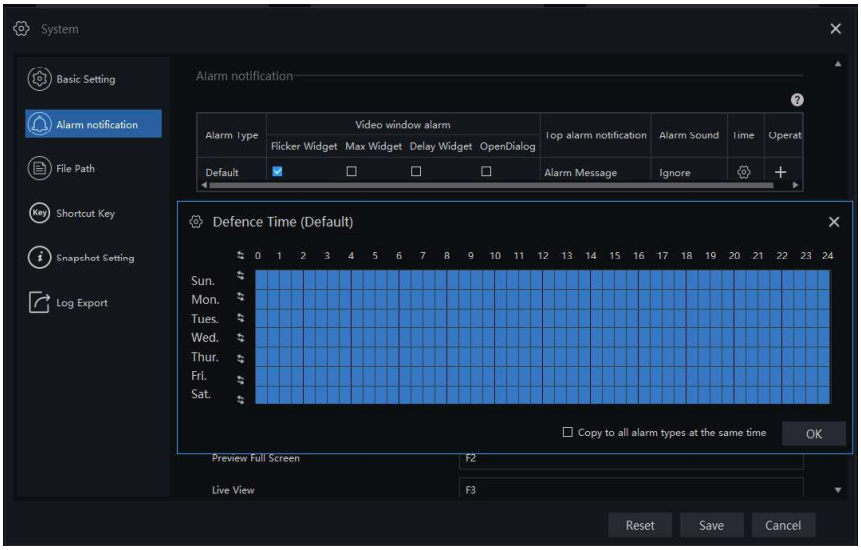
Figure 5-2 System Setting



System Setting: By default, **Live View** loads all video channels, which may impact system performance. To prevent this, go to **System Setting > Basic Setting**, and uncheck **Restore Layout**.

User may also customize the weekly start day for calendars based on user preferences.

Figure 5-3 Alarm notification



Alarm Notification: Choose how alarms are displayed in the video window (e.g., flash, maximize, delay, open dialog).

Configure top-bar alarm notifications (e.g., alarm count, message display, sound alerts).

Choose an alarm sound (silent, system sound, buzzer). Mac systems only support limited sound settings.

Set the active time period for alarm notifications using the “Time” option, as shown in Figure 5-3.

To add a new alarm type, click “+”. To remove one, click “–” as shown in 0.

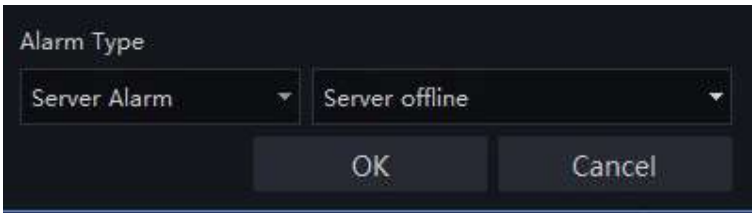


Figure 5-4 Basic Functions

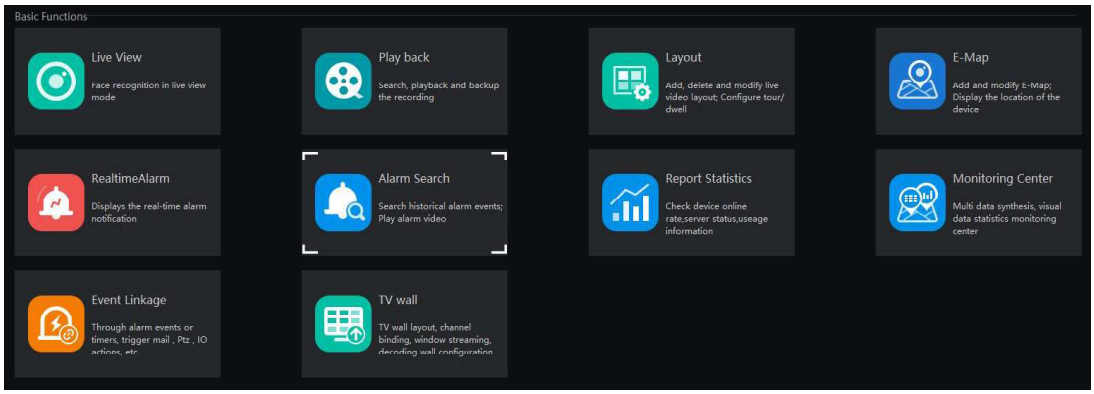


Figure 5-5 Configuration Maintenance

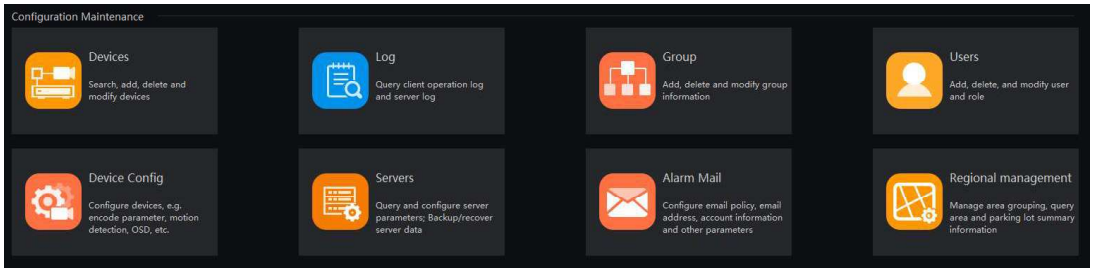


Figure 5-6 Face Recognition

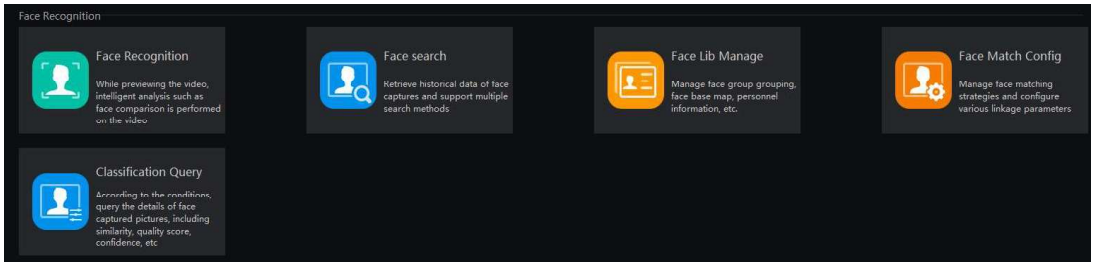


Figure 5-7 License Plate Recognition

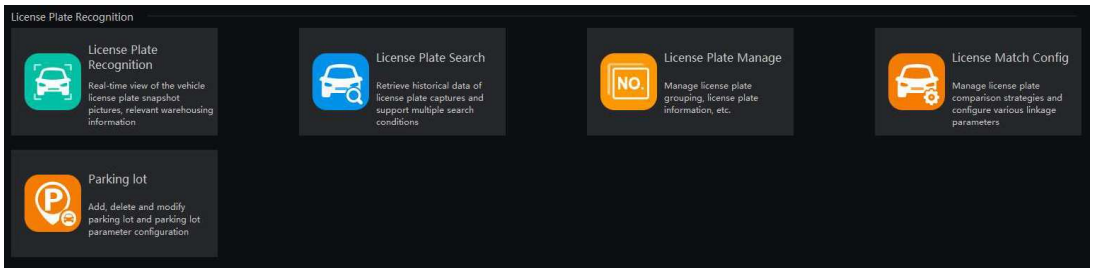


Figure 5-8 Multi-target Recognition

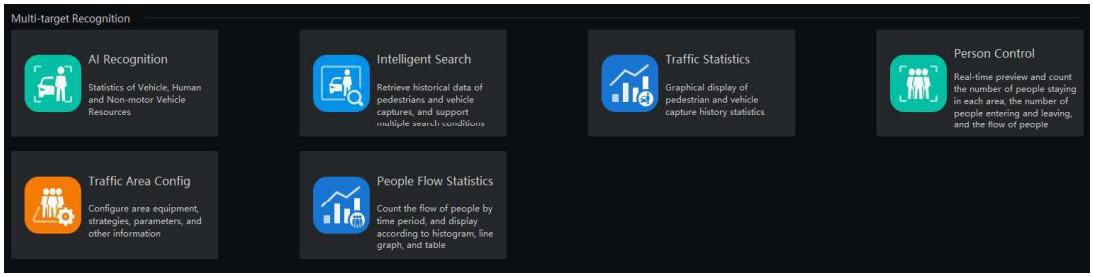


Figure 5-9 Attendance

Figure 5-10 Temperature Monitor

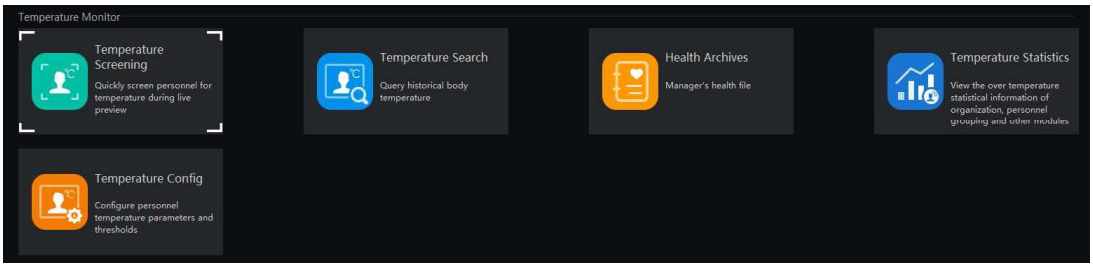


Figure 5-11 Thermal Imaging

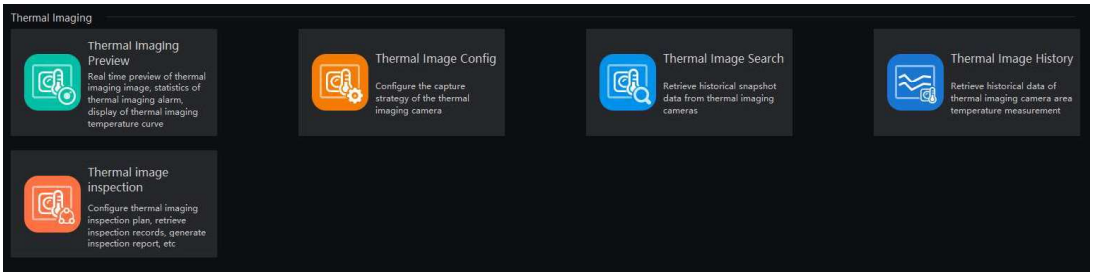
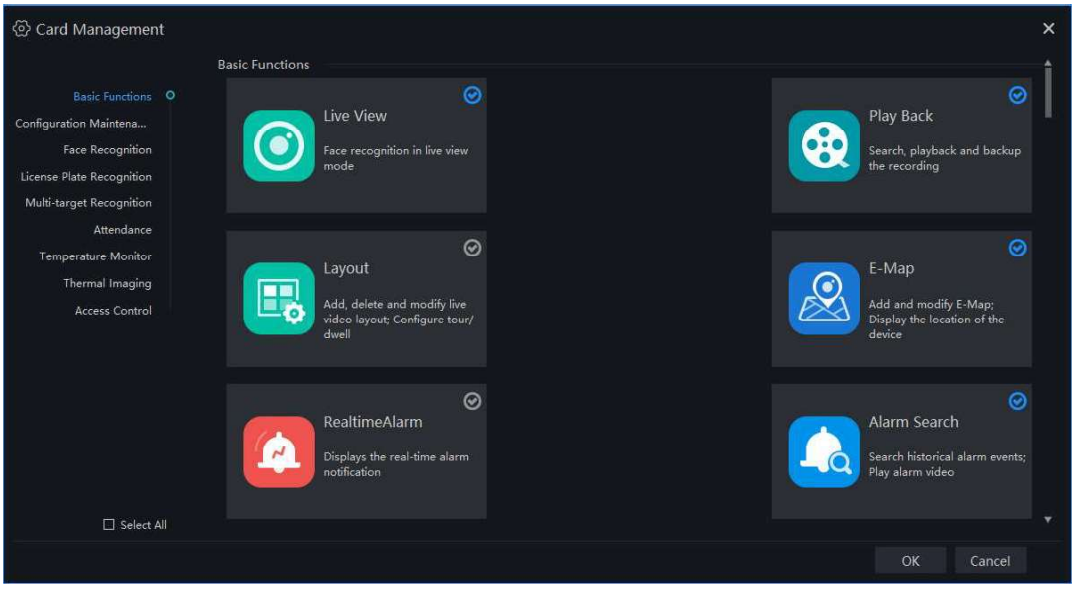


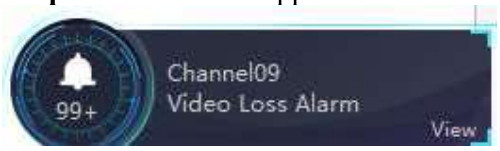
Figure 5-12 Access Control

Figure 5-13 Card management



5.2 Suspended Ball

When the platform window is minimized or hidden, a floating alarm indicator known as the **Suspended Ball** will appear on the screen, as shown in figure



Clicking on the Suspended Ball opens the alarm details interface, allowing users to view real-time alarm information immediately.

This feature ensures that users are promptly notified and can respond to alarms even if the main interface is not visible

6 Basic Functions

6.1 Live view

The Live View interface allows users to monitor real-time video streams. Features include:

- Viewing real-time and cruising video
- Capturing screenshots
- Enabling audio or two-way intercom
- Zooming
- Switching stream quality
- Saving custom layouts
- 3D positioning
- PTZ (Pan-Tilt-Zoom) control

User may click  to quickly adjust video settings as shown in Figure 6-1.

TIP

Up to four Live View windows can be opened at the same time, and user may drag them to other monitors for multi-screen display.

The platform automatically selects between hardware decoding and software decoding based on your PC's configuration.

Figure 6-1 Live view UI

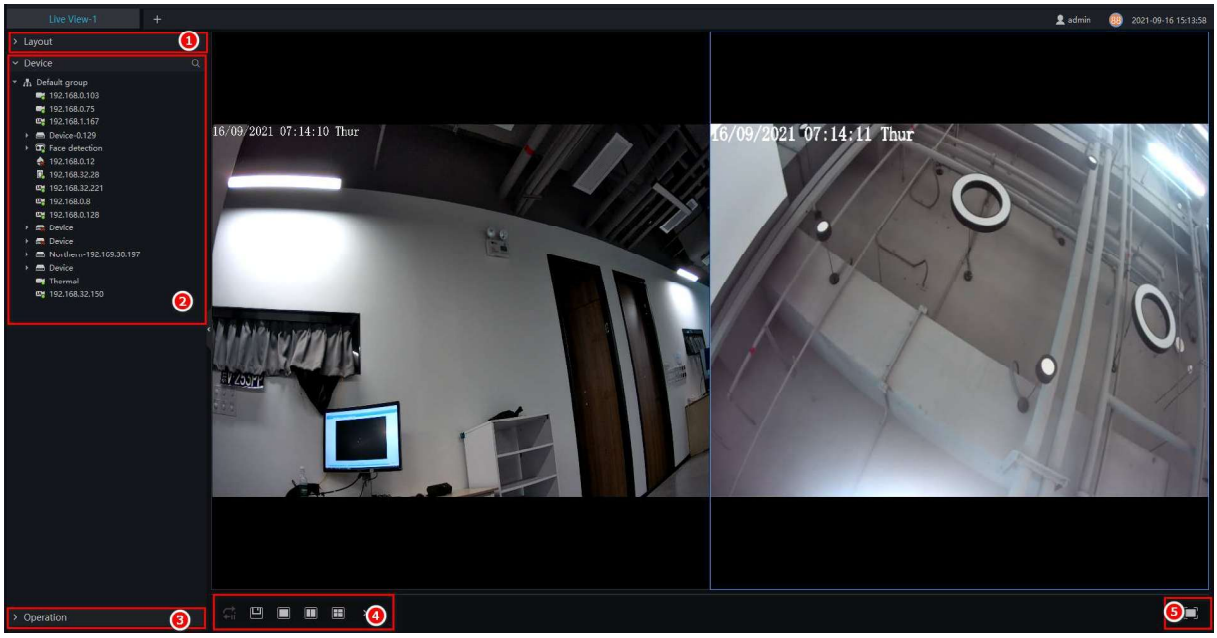


Table 6-1 Live view

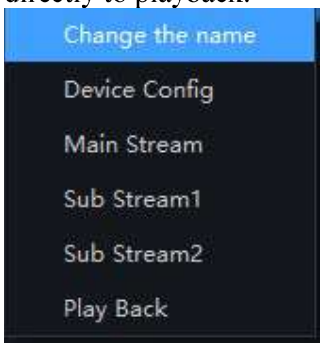
No.	Function	Description
1	Layout	Set video display format and add layout templates.
2	Device list	View available devices. Right-click in a blank area to filter (e.g., show only online devices). Right-click a specific device to rename, jump to its configuration page, select a stream for live viewing, or go directly to playback. 
3	Operation	Control PTZ functions or image settings for dome cameras.
4	Video display layout	Choose from single-screen, 4-screen, or up to 64-screen views. Save custom layouts or start tour previews. 
5	Full screen	Enable full-screen viewing. Right-click and select “Full Screen” again to exit.), as shown in Figure 6-2. (Note: Full screen is not supported on Mac systems)

Figure 6-2 Full screen

6.1.1 Layout

The **Layout** function allows users to bind specific channels to predefined window positions.

1. Go to the **Function Preview** interface.
2. Click on **Layout List** to view all available layouts.
3. Double-click a layout name to load all real-time video feeds for the associated channels.

6.1.2 Device

Right-click menu options vary depending on the device model and may include:

- Close / Close all
- Audio / Intercom / Speaker *(Mic required; not available on Mac)*
- Snapshot / Continuous Snapshot
- Display ratio / Show title / Display stream info
- Start 3D / Full screen / Hardware acceleration
- Open mouse thermometry / Show area temperature
- Panoramic tool / Fisheye tool (for supported NVR channels and fisheye cameras)

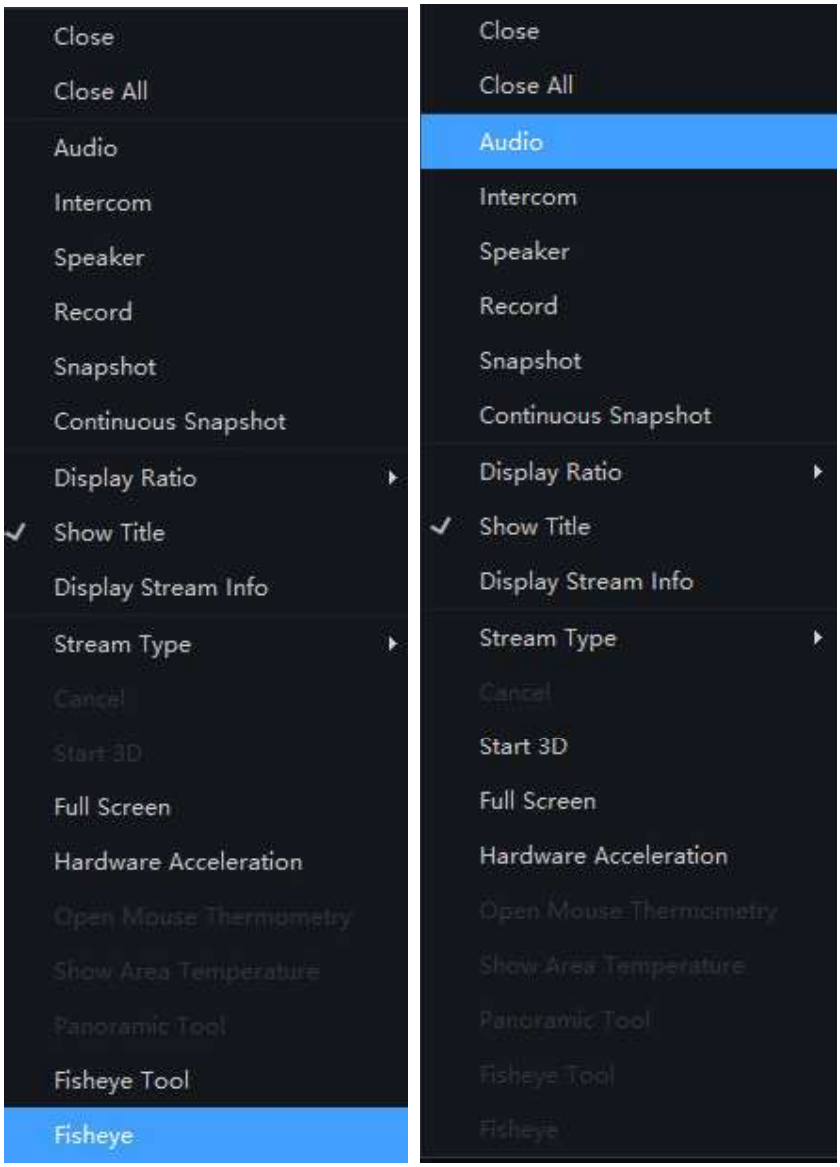
TIP

"Show title" is enabled by default. When hovering over the video, the camera title appears at the top of the image.

The fisheye tool and fisheye function can be used at NVR channels and fisheye cameras.

Figure 6-3 Show title

Figure 6-4 Right-click menu

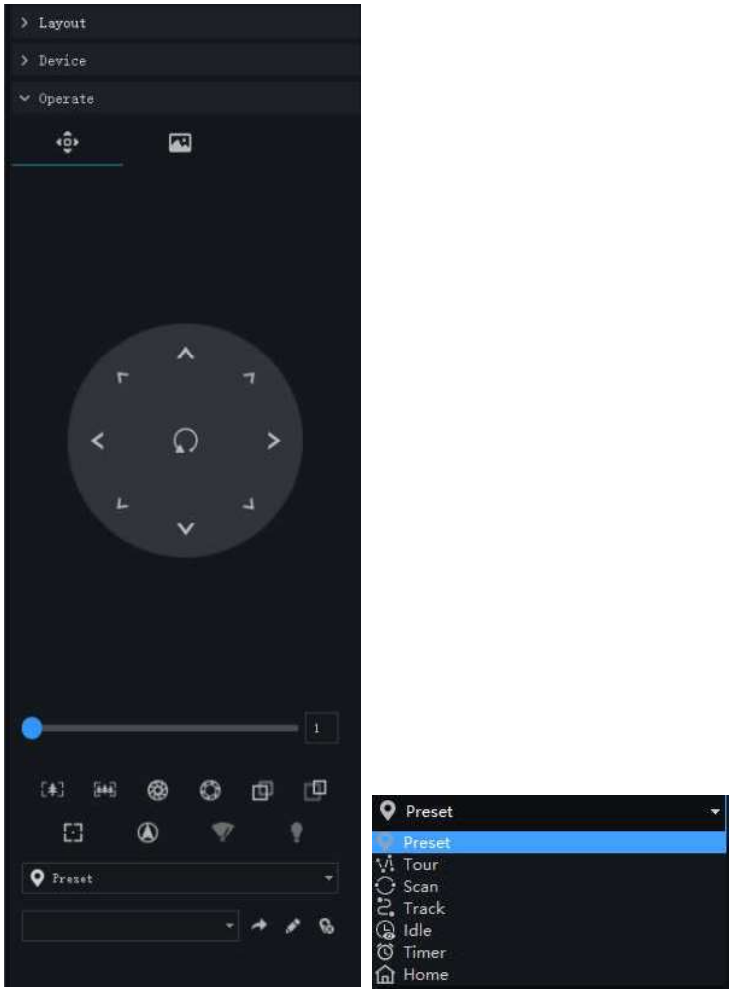


6.1.3 Operation

NOTE

This feature is available for dome cameras with PTZ (Pan-Tilt-Zoom) capabilities. It allows you to perform the following operations.

Figure 6-5 PTZ adjustment



PTZ Operation: Move the camera in all directions, zoom in/out, control the lens focus, adjust iris levels, set the home position, and activate the wiper or light.
Preset position: Set a name for a preset location and assign the camera's current view to it. This helps with quick repositioning and cruise operations.
Tour: Create a tour sequence for the camera to cycle through multiple preset positions.

To configure a tour:

- Choose the tour option and click  to edit.
- Name the tour.
- Click + to add presets and define the wait time for each.
- Click – to remove presets.
- Click Save to apply the settings. Click  to return.

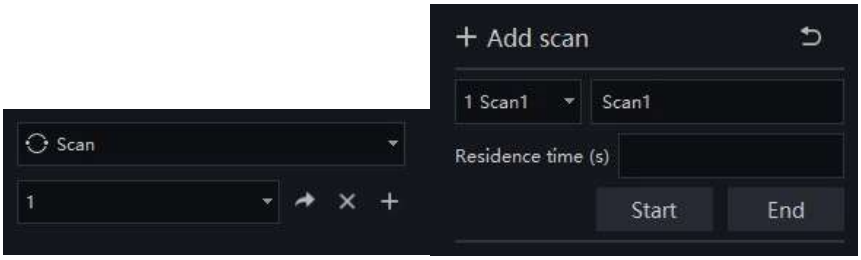
Figure 6-6 Tour

Scan: Set a start and end point to create a repeating scan motion between them.

To configure a scan:

- Choose the scan option, click + to add a scan.
- Name it and set the wait time.
- Adjust the camera to the start position and click **Start**.
- Move the camera to the end position and click **End**.
- Click **Return** to finish setup.

Figure 6-7 Scan

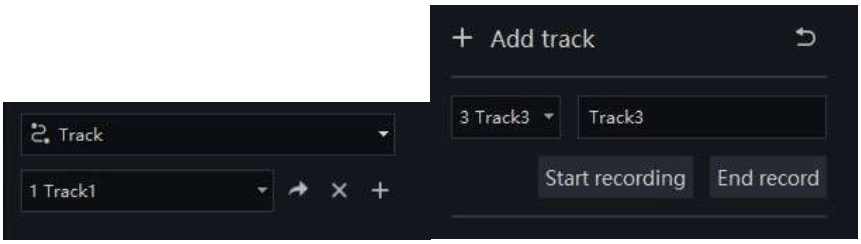


Track: Record a custom movement path for the camera to repeat.

To configure a track:

- Select the track option and click + to add a track.
- Name it.
- Click **Start Recording** and move the camera to define the path.
- Click **End Record** and then **Return** to save

Figure 6-8 Track

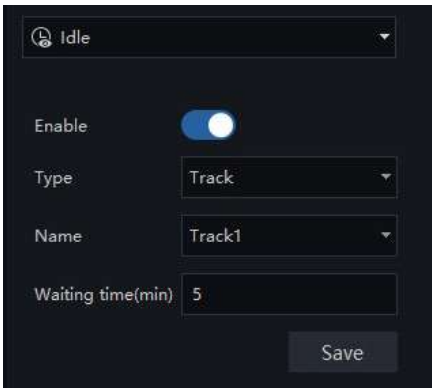


Idle: Set the camera to automatically run a preset, track, scan, or tour after being idle for a specified time (1–240 minutes).

To configure idle mode:

- Enable idle, choose the action type, name it, and set the wait time.
- Click **Save** to apply.

Figure 6-9 Idle

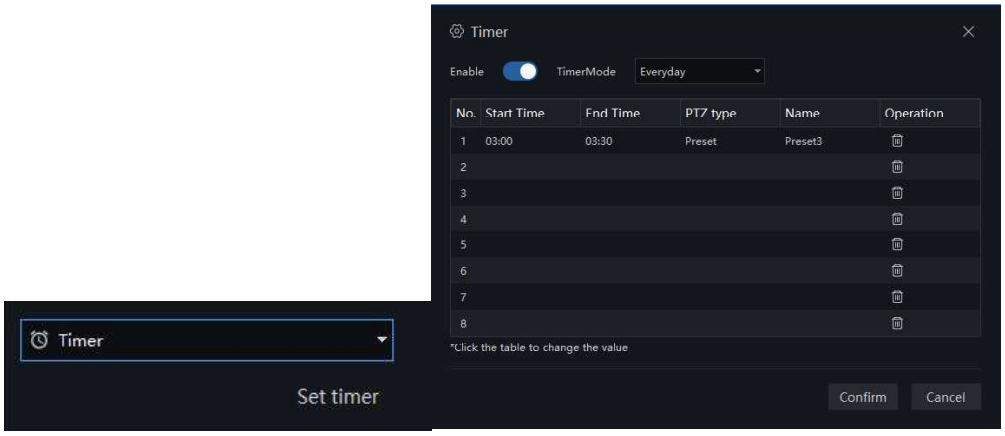


Timer: Schedule the camera to run a preset, track, scan, or tour at specific times, then return to its original position afterward.

To configure a timer:

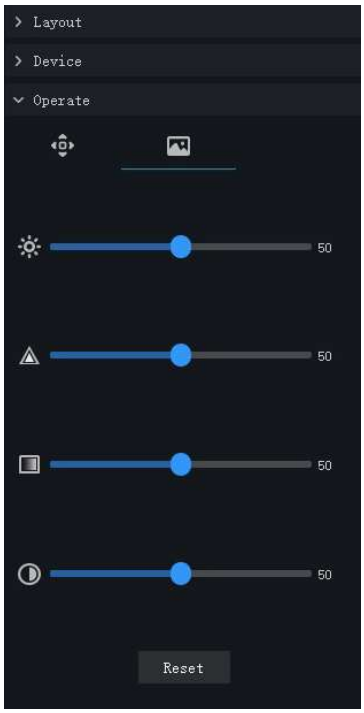
- Click **Set Timer** to open the scheduling page.
- Enable the timer and select a mode.
- Define the start and end times.
- Click **Confirm** to save the schedule.

Figure 6-10 Timer



Home: Set a custom default home view. The default is X = 0, Y = 0, Zoom = X1. User may update this based on current camera positioning.
Image operation: Adjust video parameters like brightness, sharpness, saturation, and contrast (default value is 50). Use the slider or arrows to set focus. Range: 0–100.

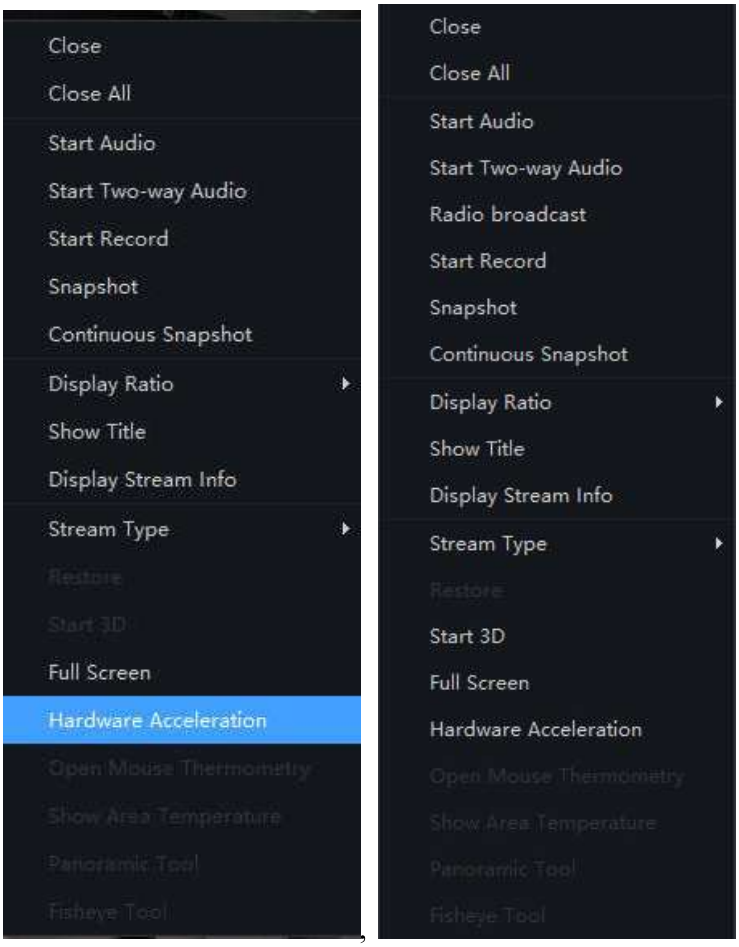
Figure 6-11 Image adjustment



Right-Click Menu: In the **Live View** interface, right-clicking on a video channel opens a context menu. Options vary by device model but may include

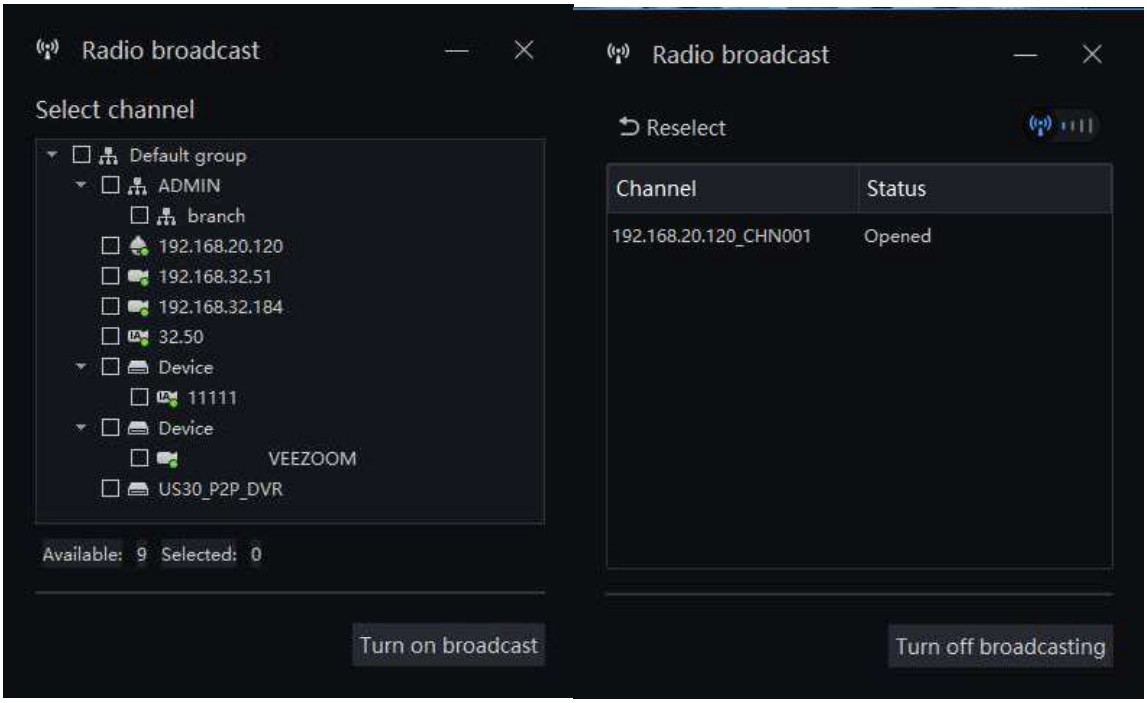
- Close video / Close all
- Audio / Intercom / Speaker (if supported)
- Snapshot / Continuous snapshot
- Display ratio / Show title / Stream info
- 3D mode / Full screen / Hardware acceleration
- Thermometry options
- Fisheye and panoramic tools (Mac systems may not support these)

Figure 6-12 Right-click menu



Note: For devices with speakers or connected to an audio output, the system supports radio broadcast. With a microphone connected to the platform's computer, click Radio Broadcast to access settings. Select the channel and click Turn On Broadcast to play audio. Click Turn Off Broadcast to end.

Figure 6-13 Radio broadcast



6.2 Playback

6.2.1 Playback

The **Playback** function allows you to view and back up previously recorded video from front-end devices. It supports:

- Synchronous playback across multiple channels
- Playback control options
- Event-based playback

To access, click the **Playback** icon on the **Main Menu Page**  , as shown in Figure 6-14

Figure 6-14 Playback interface

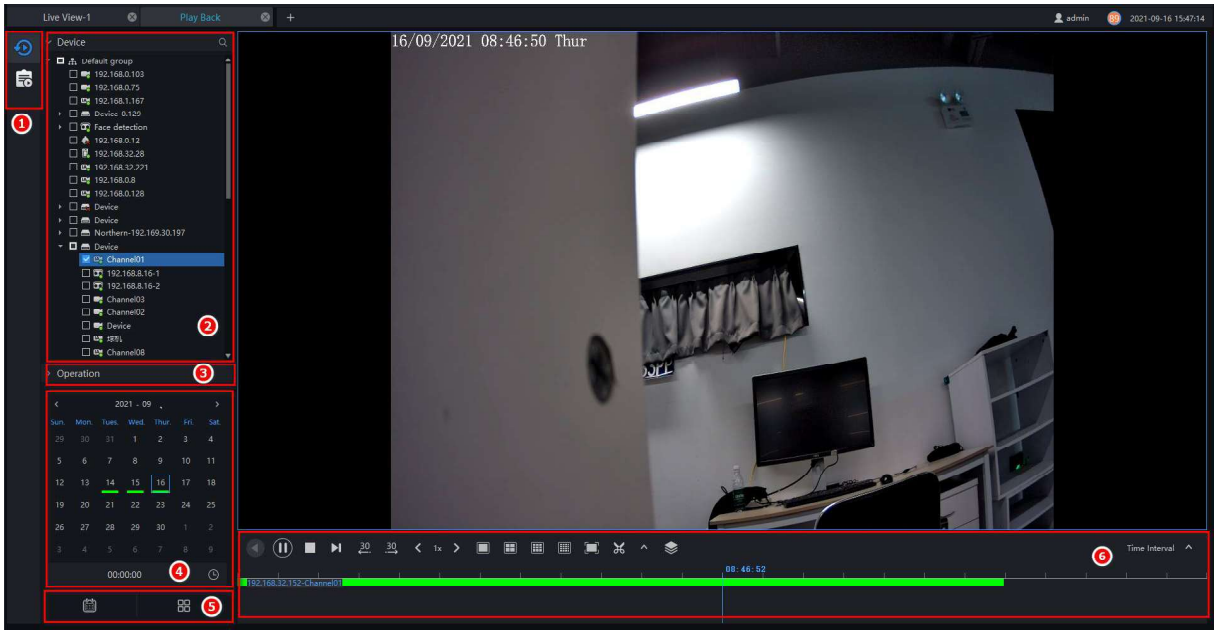
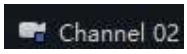


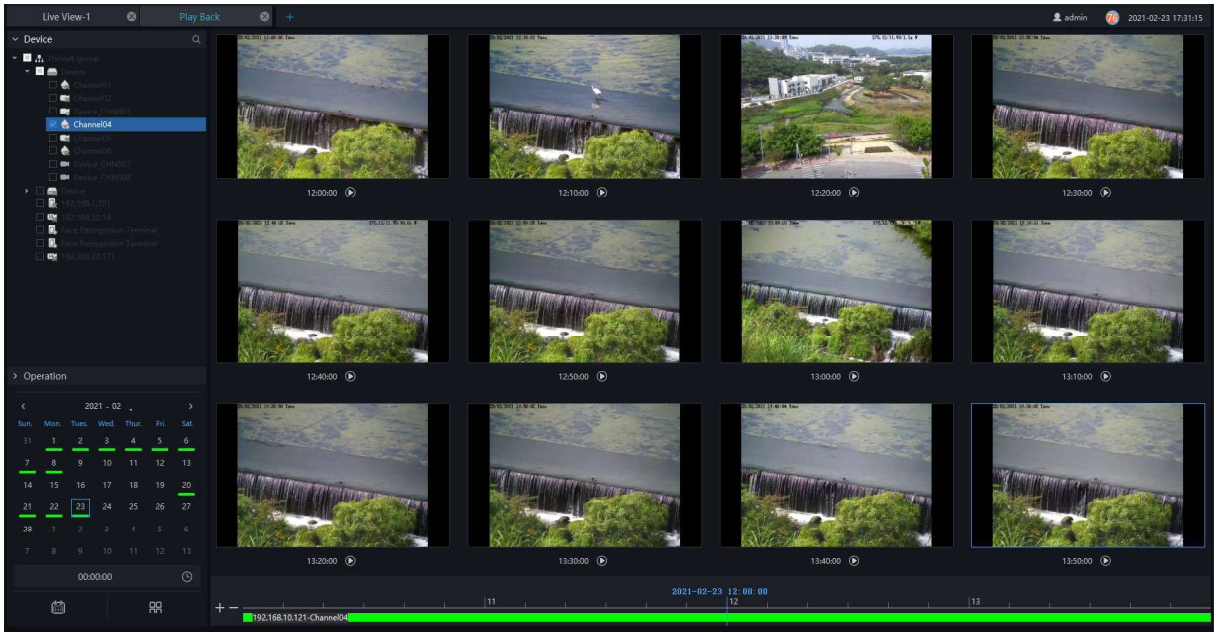
Table 6-2 Playback

No.	Function	Description
1	Playback / Event playback	Select between standard playback or event-based playback. *Note:* Event Playback is available when radar devices are linked with dome cameras and record events to SD cards.
2	Device	Displays devices in the organizational structure. Indicates which devices have recorded footage.  means that there are recorded videos.  means play the recording videos.
3	Operation	PTZ and image parameter adjustments for dome cameras.
4	Calendar	Shows recording dates. A green line beneath the date indicates available recordings. Manual input  for time positioning is also available.
5	Show or hide calendar / grid	Toggle the calendar or video grid display.

No.	Function	Description
6	Toolbar operation	Video operation: operation, timeline, display. For example  , Rewind  , Pause/Play  , Stop  , Next frame  , Backward 30s/ Forward 30s  , Several fold speed slow release, fast release  , Layout display  , Full screen, the Mac system doesn't support full screen playback.  , Download back up device video, specific steps please refer to chapter 6.2.4.  , Bath backup, choose multiple channels to back up the video.  , Progress bar format selection

Figure 6-15 Batch backup

Figure 6-16 Video grid



6.2.2 Event Playback

This function allows playback of video related to radar alarms. If radar and high-speed dome cameras are linked, and recordings are stored locally (e.g., SD card), user may search and play event-based footage.

Figure 6-17 Event playback

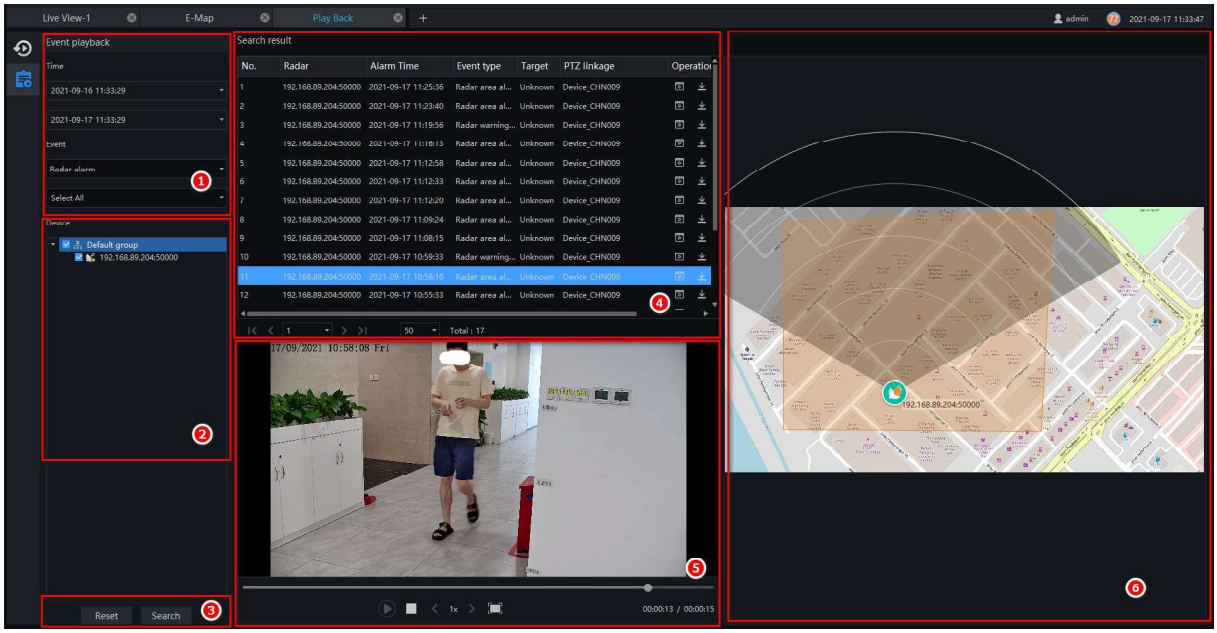


Table 6-2 Event Playback

No.	Function	Description
1	Search conditions	Set time, choose the event, and alarm type.
2	Device	Select radar devices for the search.
3	Search result	View list of matching alarm events.
4	Alarm recording	Select and view video linked to a specific alarm.
5	Tracking	Track the alarm event on the map (GIS)

6.2.3 Playback the Device Video

Steps:

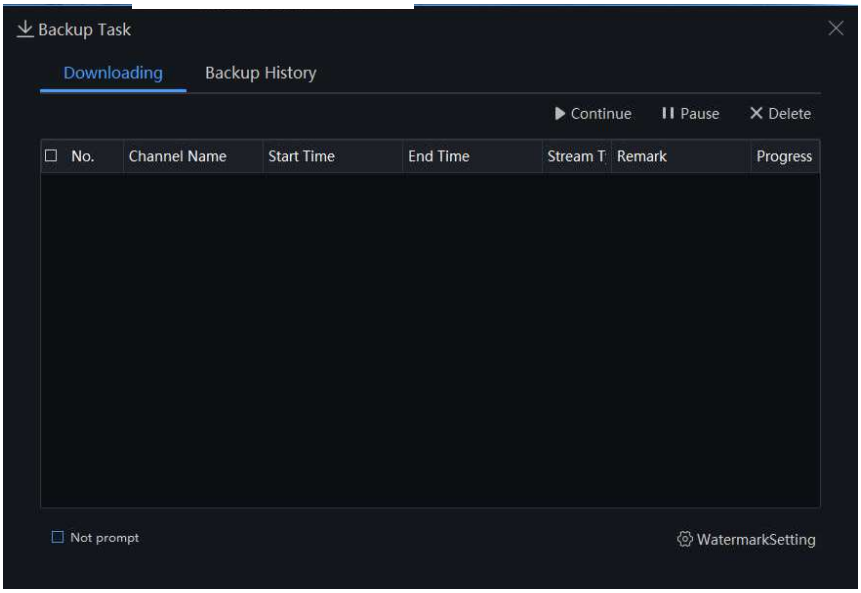
1. Choose your preferred layout to enable multiple-device playback.
2. Select the desired device from the list.
3. The system automatically searches and plays back video from the current time.
4. Use the timeline controls to select the playback interval.
5. Use toolbar tools to adjust playback to your needs.

6.2.4 Back up the Device Video

Steps:

1. Click  icon to begin the backup process.
2. Drag  along the timeline to select the recording period.
3. The selected video will be saved in **MP4 format**.

Step 1 After selecting the video segment, click the checkmark to confirm. This takes you to the download interface, as shown in **rce not found.**



Set Watermark (Optional)

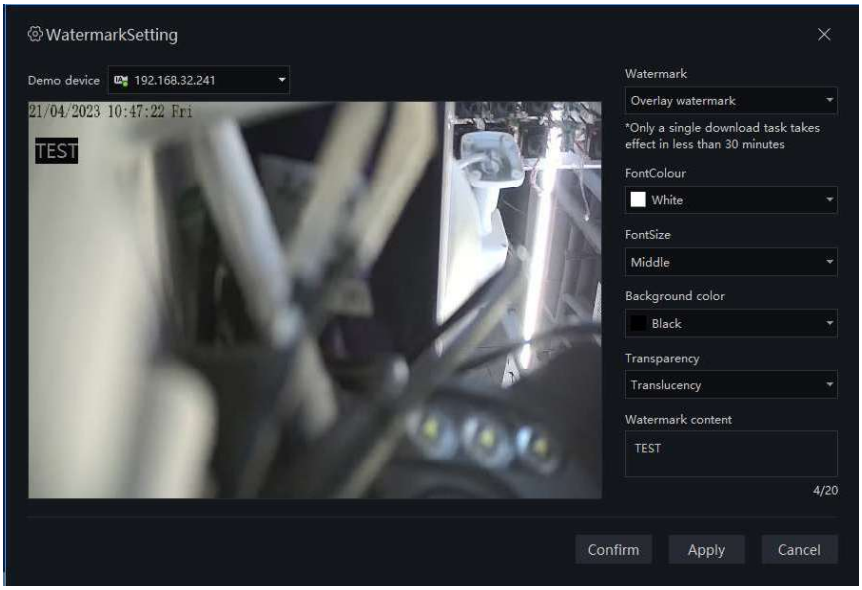
User may apply a watermark to downloaded videos. Click **Water Mark Setting** to customize:

- Overlay or no overlay
- Font color

- Transparency (translucent, transparent, semi-translucent, opaque)
- Custom watermark text

Click **Confirm** to save your watermark and **Apply** to apply it to all downloads.

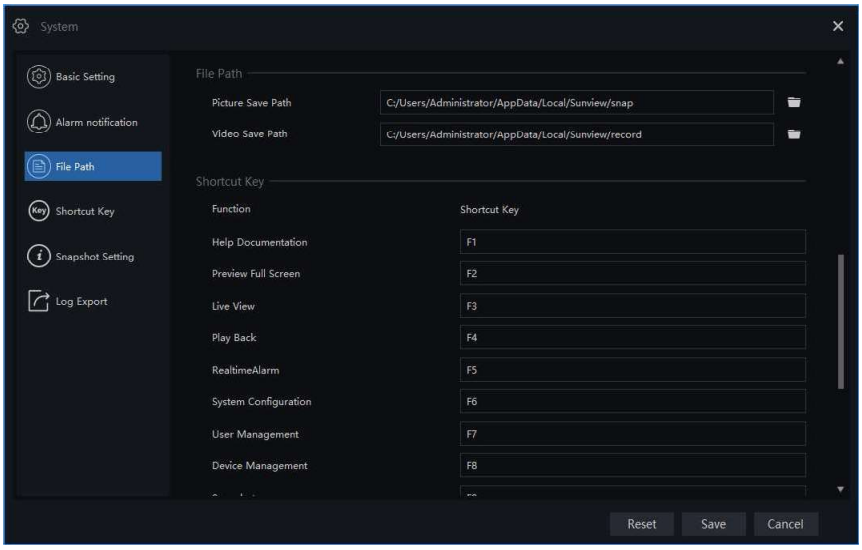
Figure 6-18 Set water mark



To access downloaded files:

- Click the **Download** icon  at the top of the interface.
- Then click **Downloaded** to view details like start/end time and storage path.

Figure 6-19 File path



6.3 Real Time Alarm

The **Real Time Alarm** interface allows users to receive and manage alarm notifications from front-end devices as they occur. Users can process alarms individually or in batches.

To access, click the **Real Time Alarm** icon  from the **Main Menu Page**, as shown in Figure 6-20

Figure 6-20 Real Time alarm interface

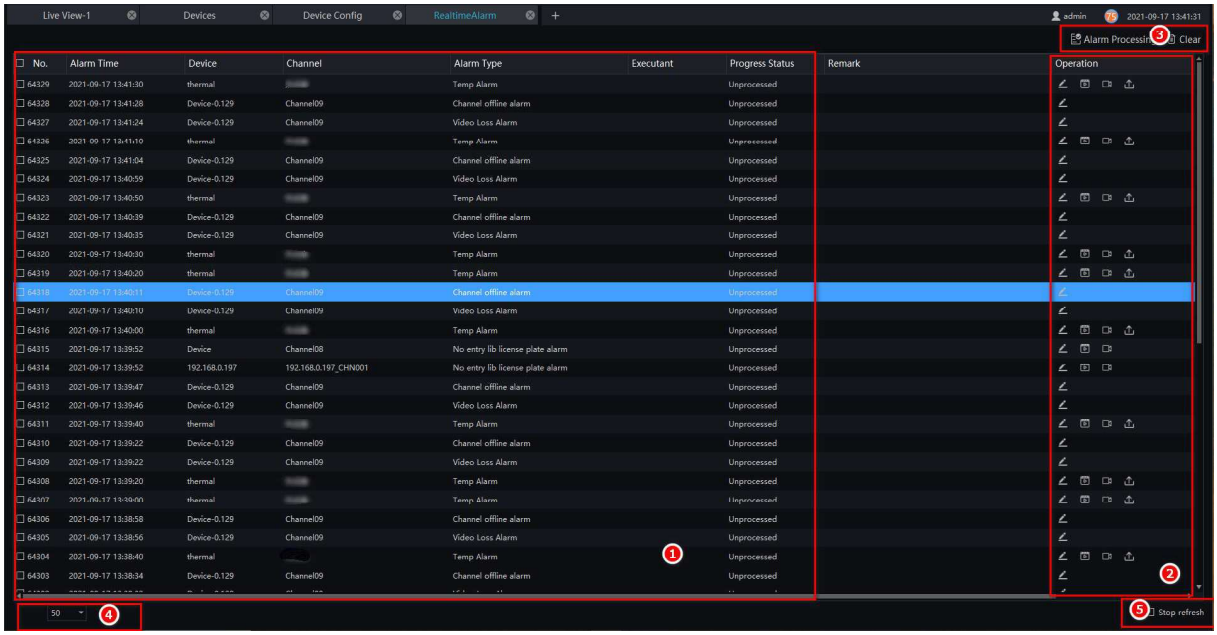


Table 6-3 Real time alarm

No.	Function	Description
1	Alarm display area	Shows details of current alarms.
2	Alarm processing.	Click **Clear** to remove the selected alarm from the list. For thermal camera alarms, exported data includes comments, summary, actions taken, temperature, alarm time, and more.
3	Alarm operation	Allows actions such as alarm processing, viewing playback, and accessing live video from the alarm-triggering device.
4	Interface display.	Shows the number of alarms on the current page.
5	Stop refresh	Check this box to pause the automatic refresh of new alarm data.

Procedure:

Step 1 Click the **Real Time Alarm** icon  on the main menu to open the detailed view. User may also click the alarm bell icon at the top-right corner for quick access.

Step 2 Select the alarm(s) you want to process.

Step 3 Click Alarm Processing to open a configuration window.
Step 4 After setting the necessary information, the alarm status will update to “Processed.”

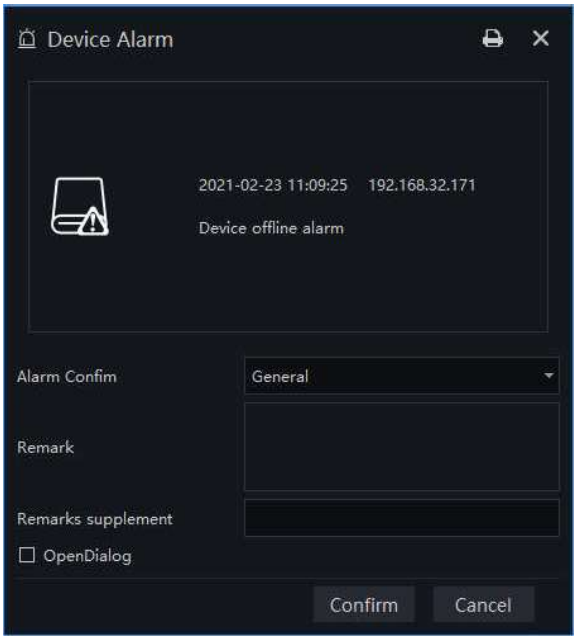
Additional Features:

Step 5 Click the  icon to view 30 seconds of video before and after the alarm event.

Step 6 Click the live view  icon to view the current live feed from the alarm-triggering device.

Step 7 Click the export  icon (for thermal alarms only) to export detailed alarm data.
Step 8 Before exporting, user may enter comments, summaries, and actions taken.

Figure 6-21 Alarm process



6.4 Alarm Search

The **Alarm Search** interface allows users to retrieve and manage historical alarm records based on specific criteria, such as date, alarm type, device name, or processing status. User may also process search results individually or in batches.

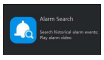
To access, click the **Alarm Search**  icon from the **Main Menu Page**, as shown in Figure 6-22

Figure 6-22 Alarm search interface

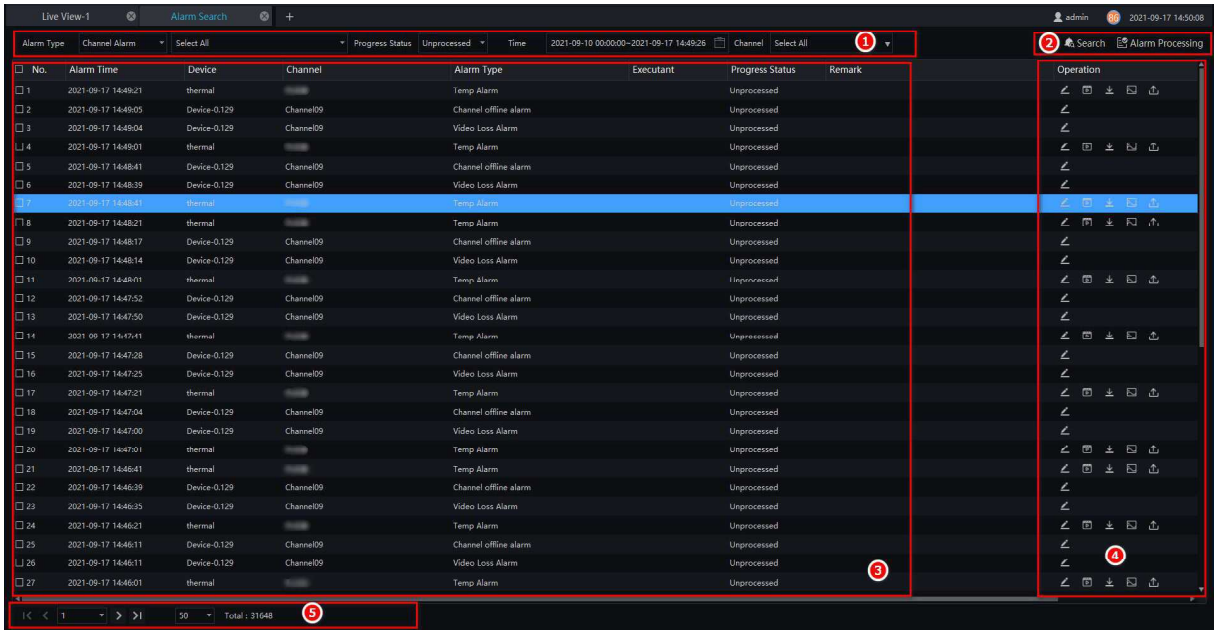
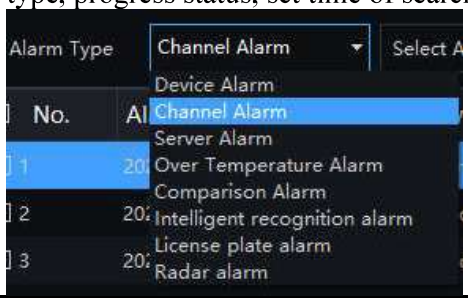


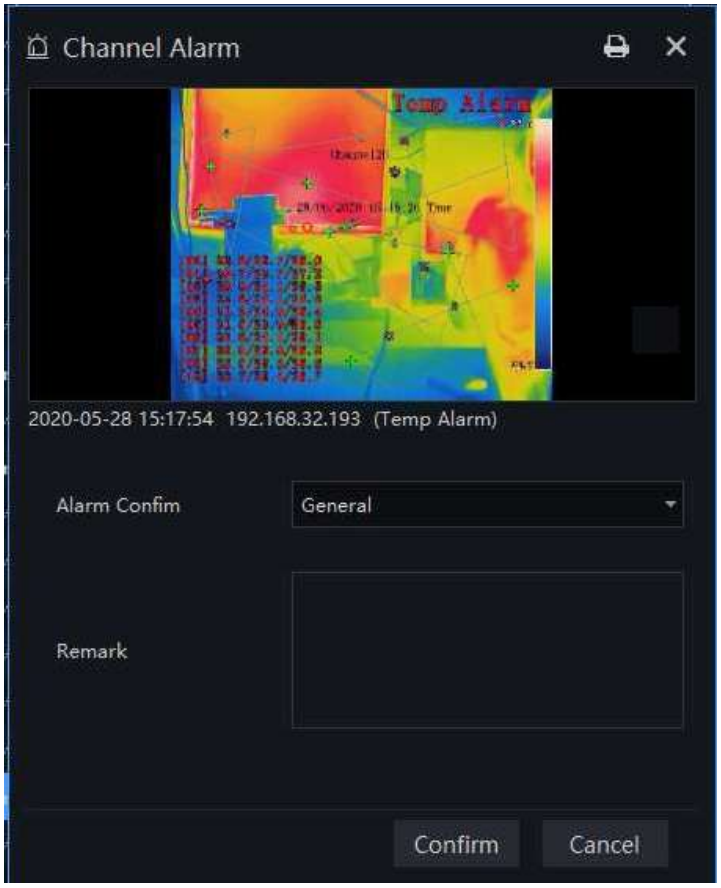
Table 6-4 Alarm search

No.	Function	Description
1	Search condition	User set the search condition, choose alarm type, progress 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, export (it is used for thermal camera, user should enable the over temperature alarm snap at thermal image config page)
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

Accurate over-temperature statistics depend on manually processing the related thermal alarms. If alarms are not marked as processed, the statistics may be incorrect.

Figure 6-23 Processing alarm

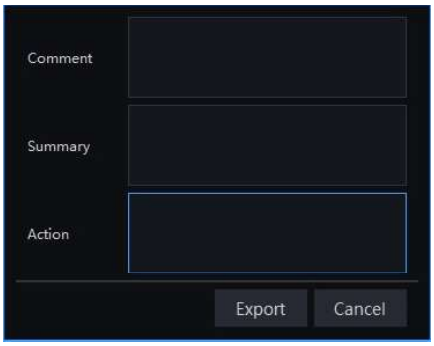


6.4.1.2 Processing Alarm

When processing an alarm:

- User may **edit the alarm details** (e.g., type, summary, actions).
- User may also choose to **print the alarm report** for recordkeeping.

Figure 6-24 Export thermal alarm



6.4.1.3 Export Thermal Alarm

Click the **export**  **icon** for thermal imaging alarms to save detailed records, which may include:

- Basic camera information

- Alarm snapshot
- Temperature readings
- Custom notes, summary, and action taken

6.5 Layout

The **Layout** function allows users to bind video channels to specific display windows and set polling intervals between views. These layouts will be shown under the **Preview** interface, helping users monitor multiple cameras more efficiently.

To access, click the **Layout** 

icon from the **Main Menu Page**, then click the **Add**  button to create a new layout as shown in Figure 6-25.

Figure 6-25 Layout management interface

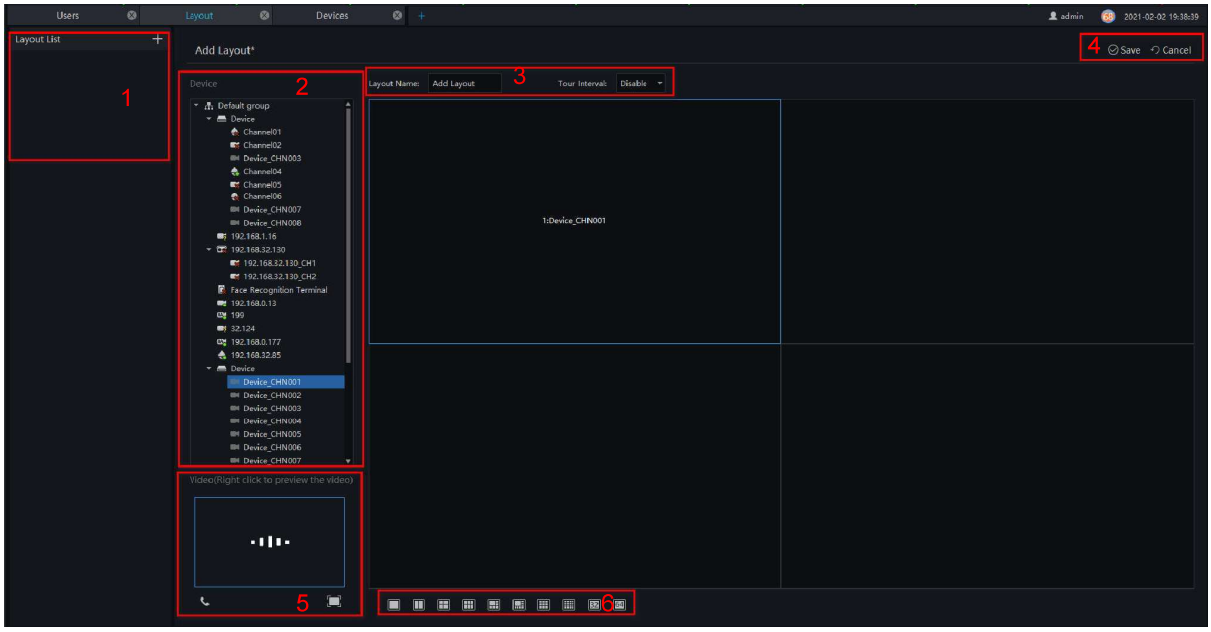


Table 6-5 Layout management

No.	Function	Description
1	Create new layout	Click the  icon or the large **Add** button to create a new layout configuration.
2	Devices list	Drag and drop devices from the list onto the layout window.
3	Basic information of layout	Set a name for the new layout and define the **polling interval** (Note: polling is not supported on Mac systems).
4	Operation	Save or cancel the current layout configuration.

No.	Function	Description
5	Play video	Right-click a device to play video directly. 
6	Display mode	Select a video display format.

Procedure:

Step 1 Click + the layout list to start creating a new layout.

Step 2 Enter a layout name and select the desired window format (number of screens).

Step 3 Set the tour/polling interval (if applicable).

Step 4 Drag devices from the list and drop them onto the display windows. User may bind multiple channels to one window and enable interval-based polling between them.

Step 5 Click "Save" to apply the settings.

6.6 E-Map

The **E-Map** interface allows users to upload and configure electronic maps (JPG, PNG, BMP formats) for visual monitoring. It supports multi-level sub-maps and enables real-time video display, device positioning, and radar integration.

To access, click the **E-Map**  icon from the **Main Menu Page**, as shown in Figure 6-26.

NOTE Only administrator users are authorized to edit E-Maps. Other users do not have editing permissions

Figure 6-26 E-Map interface

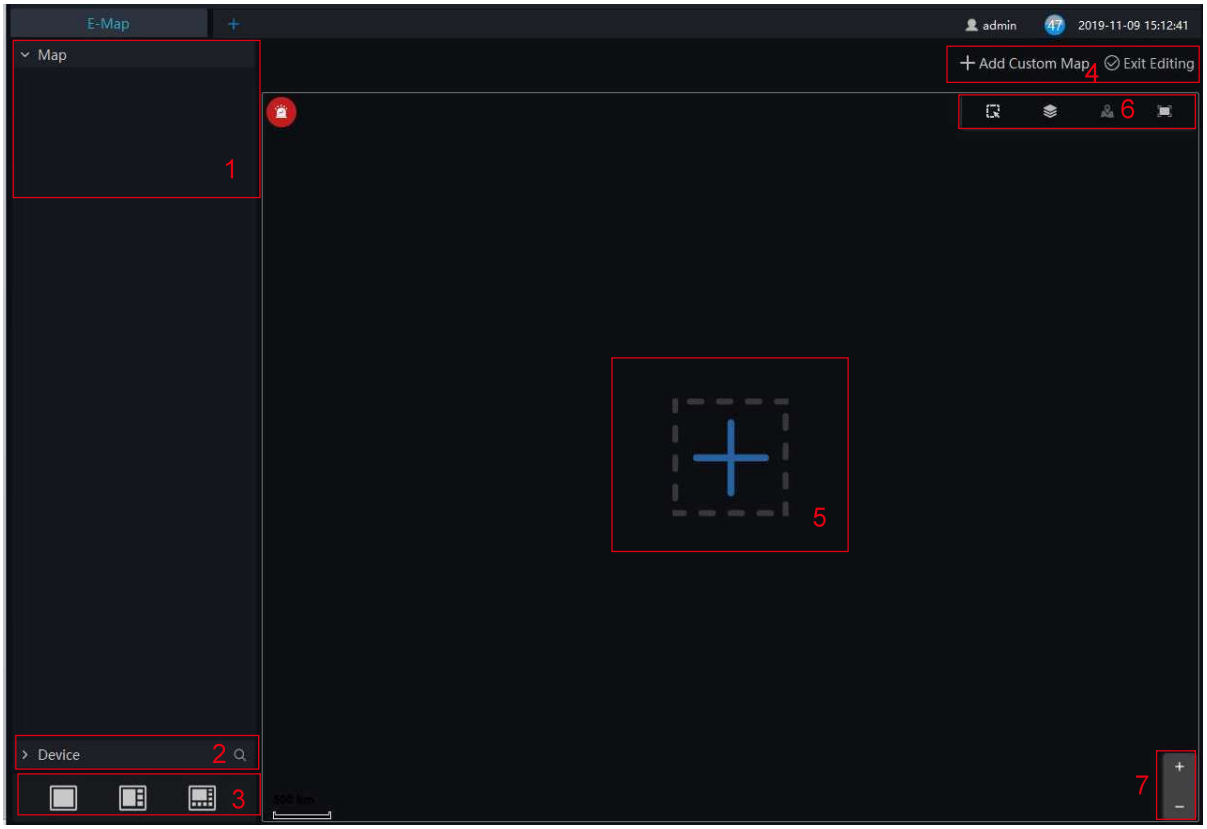


Table 6-6 E-map

No.	Function	Description
1	Map Display List	Shows all configured maps and their layouts.
2	Device	Displays devices and their details on the map.
3	Video Display	Shows live video linked to map positions.
4	Add map	Upload custom maps and configure layout.
5	Zoom in/ zoom out	Adjust zoom level for easier placement of devices.
6	Map Operations	Interact with devices placed on the map.

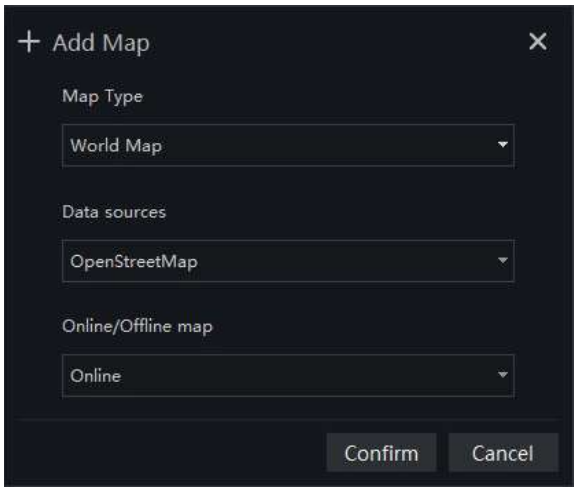
6.6.1 Add Electronic Map

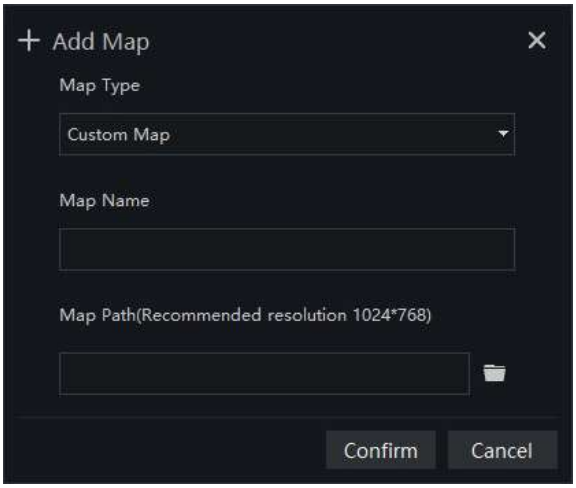
Procedure:

Step 1 Click the  icon to open the map upload interface.

Step 2 Enter a map name and select a map file. Note: User may choose from **OpenStreetMap** or upload a **custom image**.

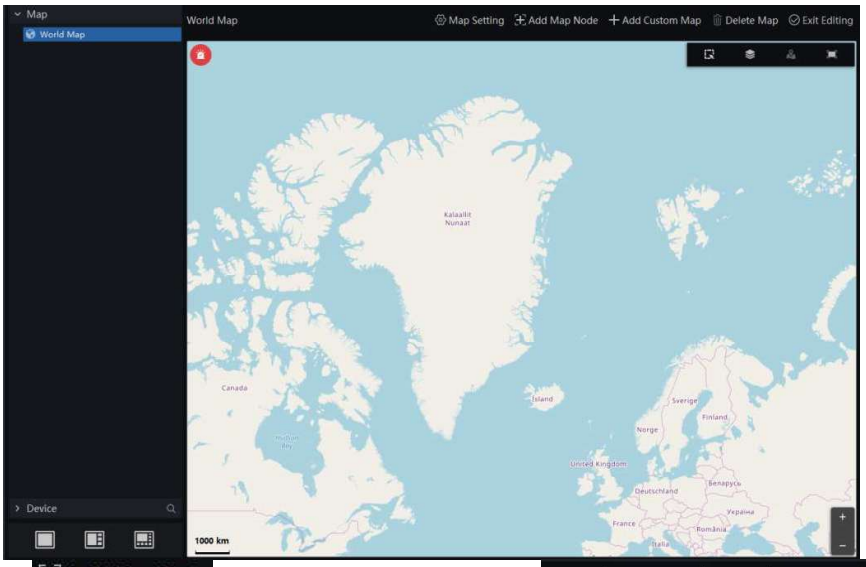
Step 3 Click **Confirm** to add the map.

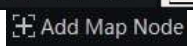


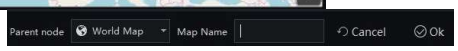


Step 4 To create a sub-map, scroll and drag to a specific area on the base map.

Figure 6-27 World map



Step 5 Click the 

icon, to create map node, 

set the node, click OK to save the settings.

Step 6 Drag and drop camera icons onto the map according to real-world deployment. When a camera is selected, its live video stream will be linked to the map.

6.6.2 Edit Map

Step 1 The Edit Map function allows you to fine-tune and update existing maps, including adding scales, nodes, and configuring radar and defense areas. To begin editing, click the 

icon on the map interface.

Step 2 **Scale Drawing**

Click the **Scale** tool, draw a line on the map, and input the actual distance. A scale will then be displayed in the lower-left corner of the map interface.

Step 3 **Custom Map**

Replace or modify an uploaded custom map.

Step 4 **Delete Map**

Remove the selected map from the system.

Step 5 **Save Changes**

After editing, click the **Save** icon to apply all modifications.

Figure 6-28 Edit map

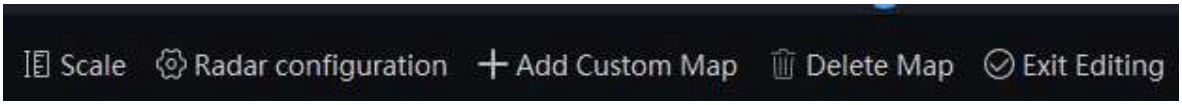


Figure 6-29 Map setting

Figure 6-30 Add map node

Figure 6-31 Custom Map

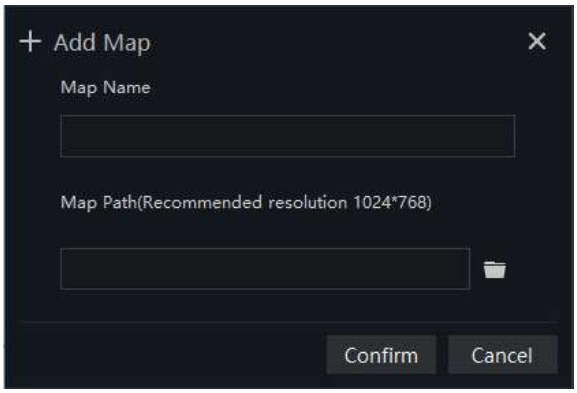
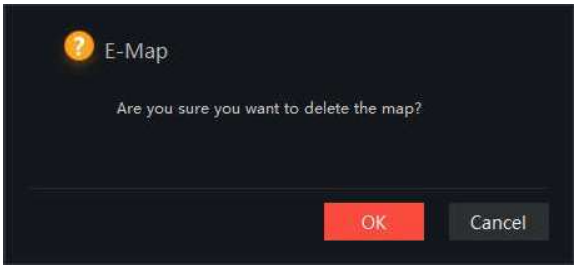


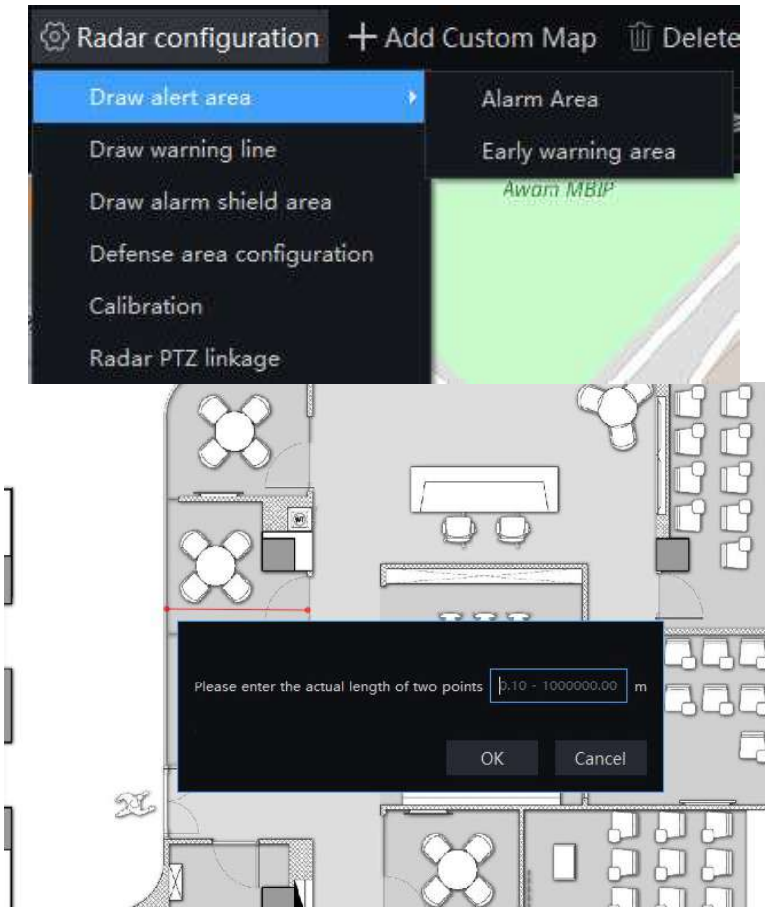
Figure 6-32 Delete map



Step 6 Click **Radar Configuration** to define radar parameters., as shown in Figure 6-33.

6.6.3 Edit Radar

Figure 6-33 Radar configuration

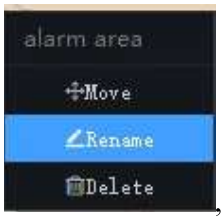


The **Edit Radar** function enables users to configure radar detection areas, perform calibration, and set up tracking with PTZ cameras. This section also supports drawing alert areas, shield zones, and filtering devices for deployment.

Radar Configuration

Click **Radar Configuration** to access the radar settings interface.

Functions include:

- **Draw Plotting Scale:**
  Draw a reference line on the map and input its actual length. The scale appears on the lower-left corner of the map.
- **Draw Alert Area:**
  Use your mouse to draw a polygon that defines the alarm zone.
  - Left-click to place points.
  - Right-click to finish.
  - Right-click an area to rename 

, move, or delete it.

- **Draw Warning Line:**
  Create a straight warning line by selecting two points with your mouse.
- **Draw Shield Area:**
  Mark areas where radar alarms should be ignored. These zones will not trigger alarms.

Defense Area Configuration

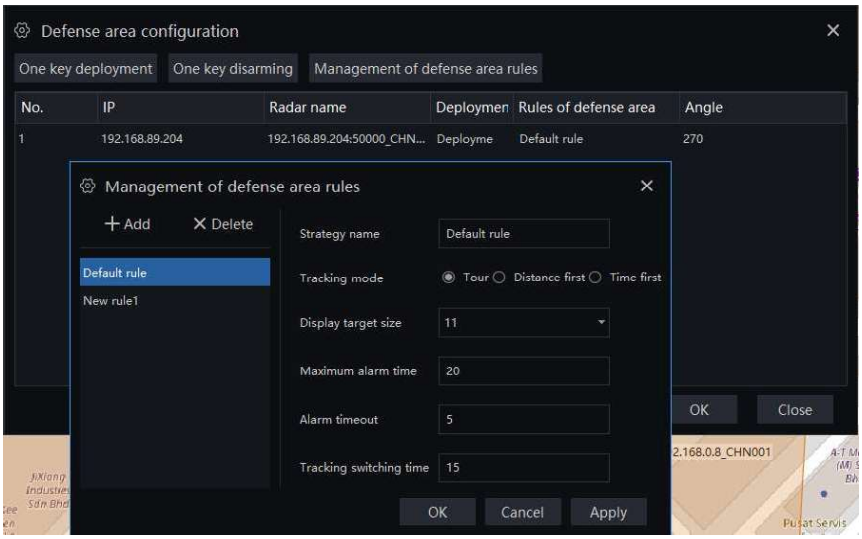
Choose the radar you want to configure.

- **Detection Angle:** Set based on the radar's specifications.
- **Deployment:** Select **Deploy** or **Disarm**.
- **One-Key Deployment:** Apply the default radar settings quickly.
- **One-Key Disarming:** Disable the current radar settings.

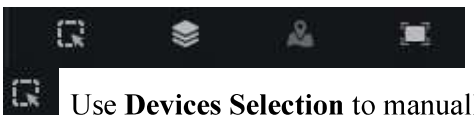
Click **Management of Defense Area Rules** to open advanced rule settings.
User may:

- Add or delete defense rules.
- Name each strategy.
- Choose a **Tracking Mode**.
- Define the **Target Display Size**.
- Set **Maximum Alarm Time**, **Alarm Timeout**, and **Tracking Switch Time**.

Figure 6-34 Defense area configuration



Click “OK” to save the defense area configuration.

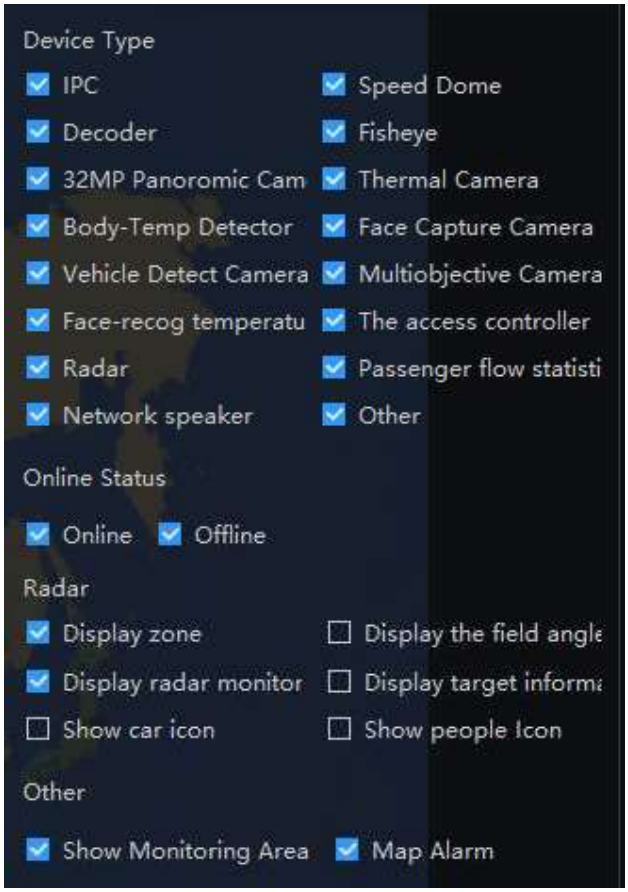


Use **Devices Selection** to manually adjust the direction of devices on the map. This ensures the correct orientation of cameras and radars for optimal coverage.

Resource filtering: Filter resources on the map using criteria such as:

- Device type (e.g., camera, radar)
- Online/offline status
- Radar capability, as shown in Figure 6-35.

Figure 6-35 Resource filtering



Full screen or exit the full screen.

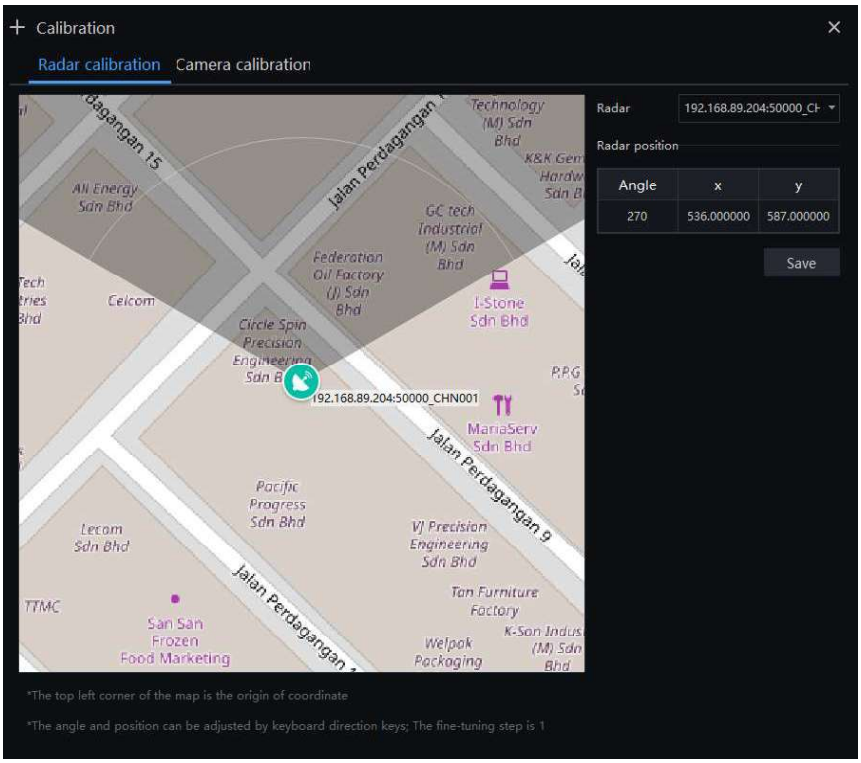
Calibration: radar calibration and camera calibration.

Radar calibration

Radar Calibration

Open the **Radar Calibration** window as shown as Figure 6-36.

Figure 6-36 Radar calibration

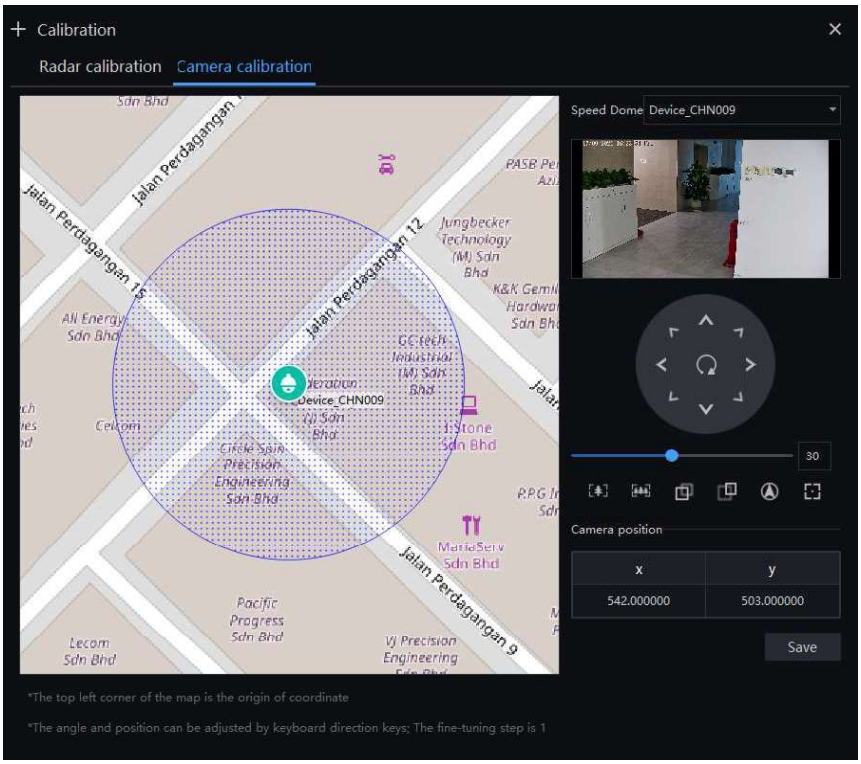


- Select the radar from the drop-down menu.
- Input the detection angle and **X/Y coordinates** of the radar's map position. (Coordinate origin is the top-left of the map.)
- Alternatively, drag the radar icon to its actual location—the system will auto-fill the coordinates.

Camera calibration

Open the **Camera Calibration** window as shown as Figure 6-37.

Figure 6-37 Camera calibration



- Select the linked PTZ camera.
- Use PTZ controls or the keyboard to adjust its angle.
- Drag the icon to the correct spot or manually input its coordinates.
- Click **Save** to apply calibration.

User may also fine-tune camera direction and angle using the keyboard controls.

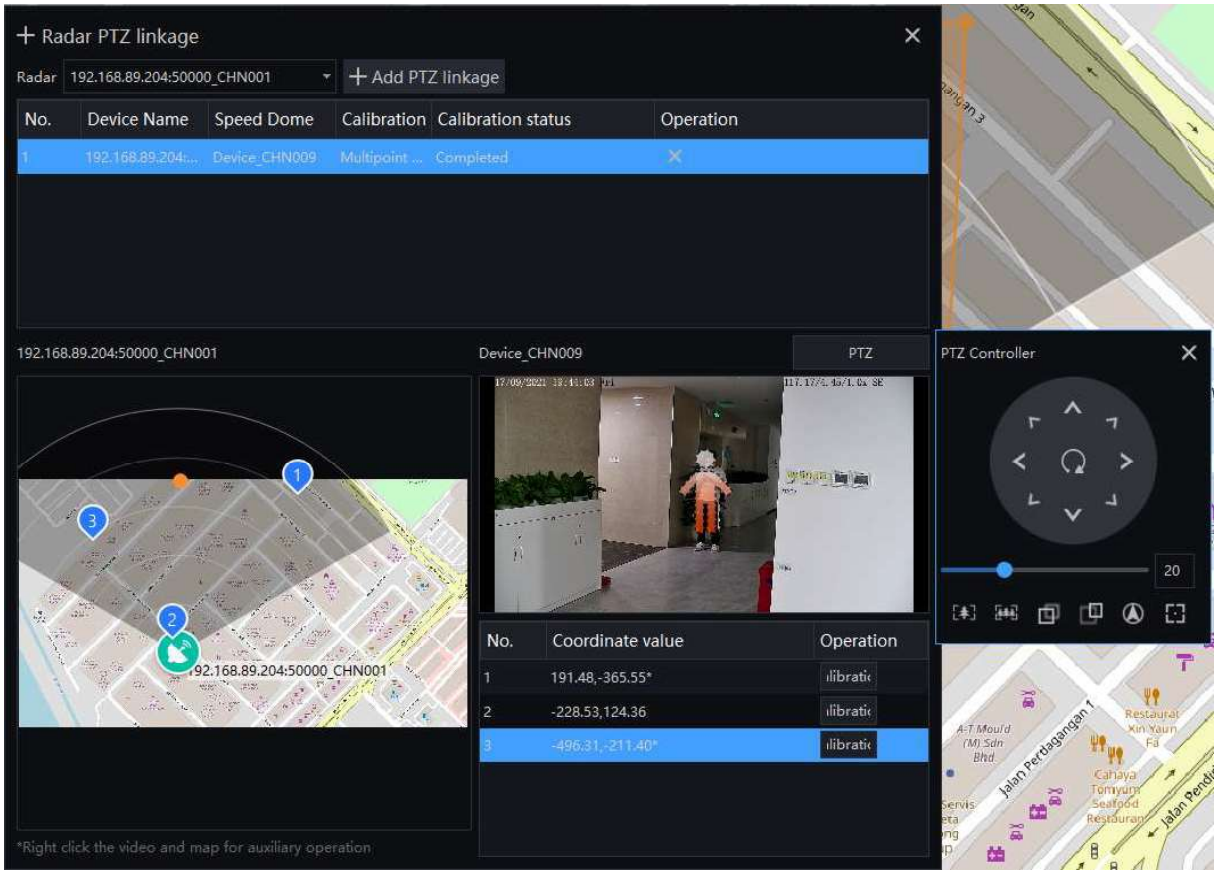
NOTE

User may also fine-tune camera direction and angle using the keyboard controls.

Radar PTZ Linkage

This feature links radar with PTZ cameras for automatic object tracking as shown in Figure 6-38.

Figure 6-38 Radar PTZ linkage



Steps:

1. Select the radar and click 

.
2. Choose the PTZ camera to link.
3. Calibrate **three points** within the radar's detection area:

    - One near
    - One middle
    - One far

At each point:

- Have a person stand at the actual location.
- Adjust the PTZ camera until the person is centered in view.
- Click **Calibration** to confirm.

User may also:

- Choose object icons (person, vehicle, etc.)
- Enable tracking direction and speed display
- Switch targets by clicking on their icons
- Add more linked devices using the + icon—only compatible devices are shown
- Link multiple radars to one speed dome if needed

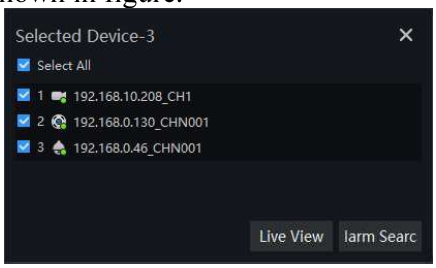
6.6.4 Deploy Monitoring Site

Procedure:

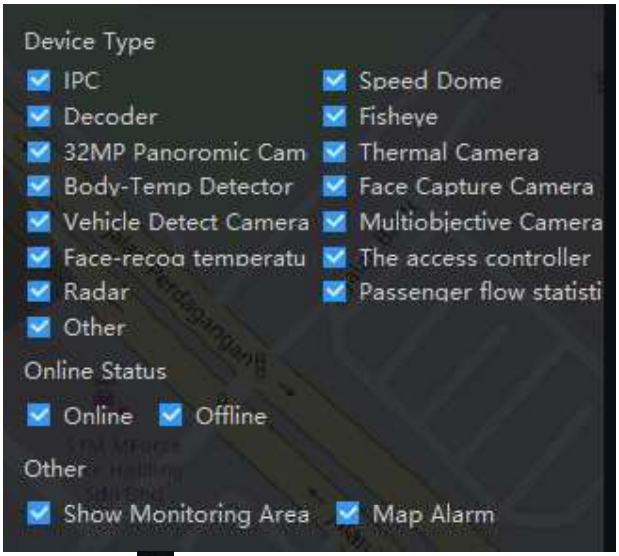
Step 1 Choose the custom map from the local folder.
Step 2 If editing is not enabled, click the **Edit** icon to switch to editing mode.
Step 3 Select the map where you want to deploy monitoring devices.
Step 4 Select the map for monitoring deployment devices.
Step 5 Drag the **camera icon** onto the map using the mouse. User may adjust the **monitoring direction** and **monitoring area size** by dragging the device icon and arrows.
Step 6 Click **Live Video**. The system will draw a line linking the monitoring site to its location on the map.
Step 7 Click the  to focus the map display accurately.

6.6.5 Quick Navigation

Step 1 Click  the  **Quick Navigation** icon on the toolbar.
Step 2 Drag your mouse across an area you want to select. A result popup will appear showing monitoring site details, as shown in figure.

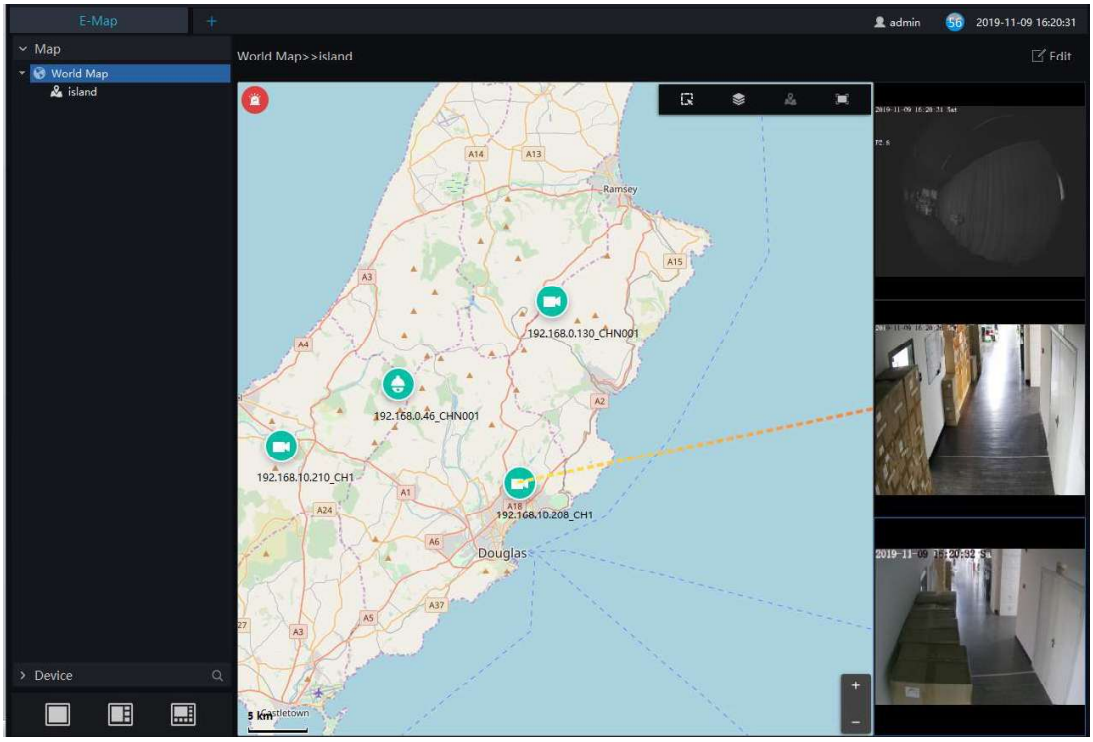


Step 3 Click  to filter devices.



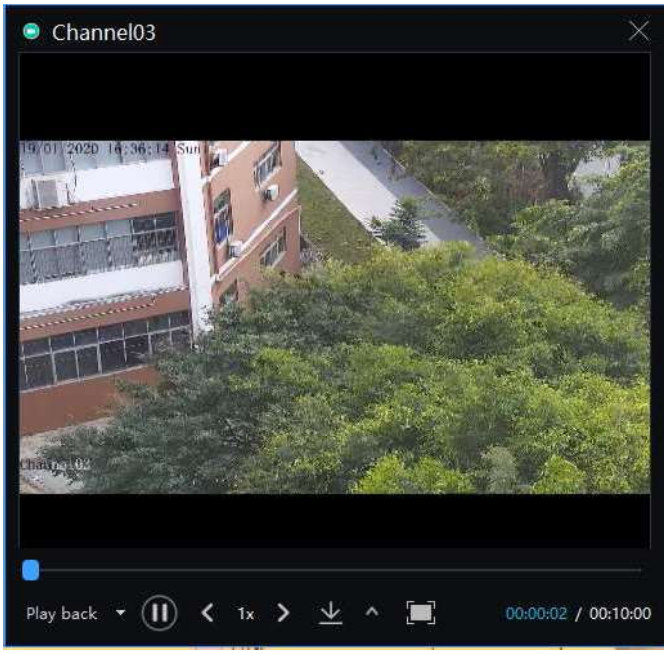
Step 4 If an alarm occurs, click the  icon to locate the alarmed device on the map. Double-click the device to open live video.
Step 5 Click  to view the alarm information.
Step 6 Click  to configure the live video display mode.

Figure 6-39 Live video of map



Step 7 Click a shining camera icon (flashing icon) on the map to view its live video stream or playback recording, depending on the situation, as shown in Figure 6-40.

Figure 6-40 Live video of alarming



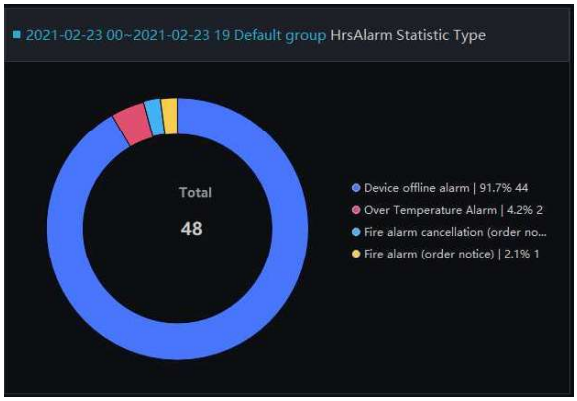
6.7 Report Statistics

The **Report Statistics** interface allows users to generate, view, and export statistical reports based on different alarm types.

On the main menu page, click  to enter the detailed page, as shown in Figure 6-41.

Figure 6-41 Report statistics interface

Figure 6-42 Alarm type statistics



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

6.8 Monitoring Center

NOTE

This function is only available for Windows systems. It is not supported on Mac systems.

The **Monitoring Center** provides a comprehensive visual management platform. It allows users to directly call up the electronic map and monitor the online status and statistics of regional equipment in real time. Key features include:

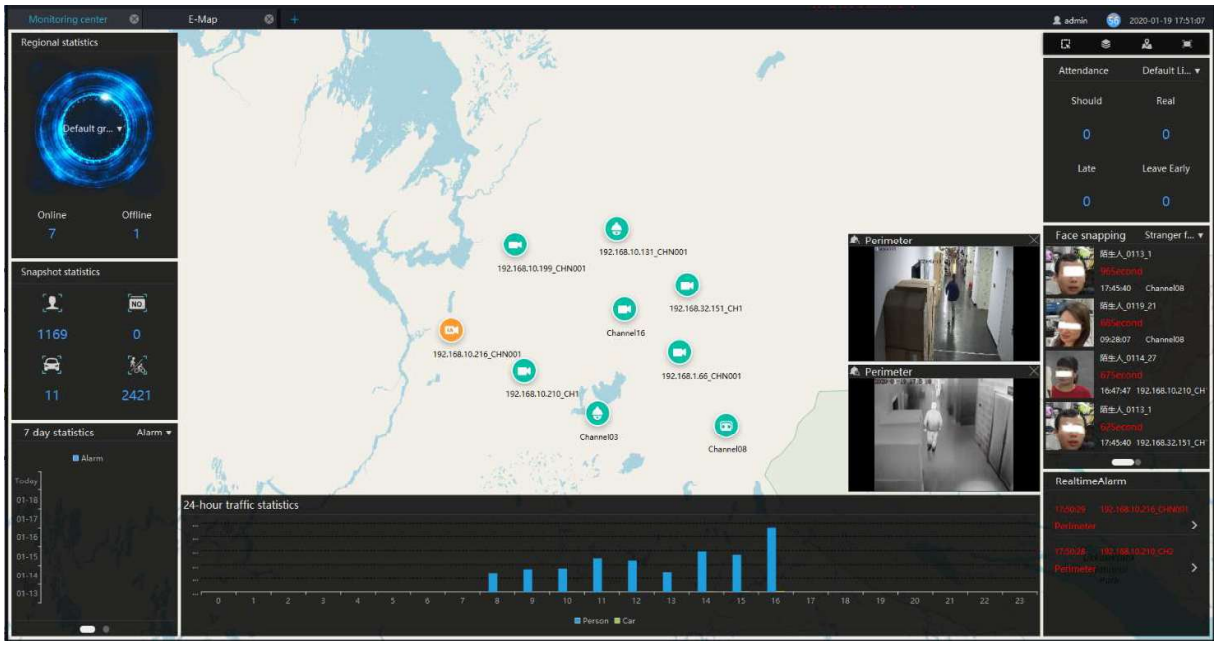
- Regional statistics
- Snapshot statistics
- 7-day traffic and alarm statistics
- 24-hour people and vehicle statistics
- Attendance statistics
- Face snapping analysis
- Real-time alarm monitoring
- Live video linked with electronic maps

.

To access, click the **Monitoring Center** 

icon from the Main Menu Page, as shown in Figure 6-43 6-43.

Figure 6-43 Monitoring Center



Regional statistics: Counts the number of online and offline devices within different groups.
Snapshot statistics: Counts the number of face snapshots, license plate captures, vehicle captures, and people snapshots under an organizational structure.
7 days statistics: Displays the pedestrian traffic, vehicle traffic, and alarm conditions over the past seven days. Note: This statistic updates once per day and is not in real-time. The system automatically switches between pedestrian statistics and alarm statistics.
24-hour traffic statistics: Counts the number of people and vehicles detected within a 24-hour period.
Attendance: Provides attendance statistics for attendance points under the organization's structure.

Face snapping: Counts the number of stranger captures and over-temperature captures.Note: The system automatically switches between these two data sets and updates in real time.

Real time alarm: Displays alarm information in real time.

If a device is linked to the electronic map, users can click to view its corresponding live video stream.

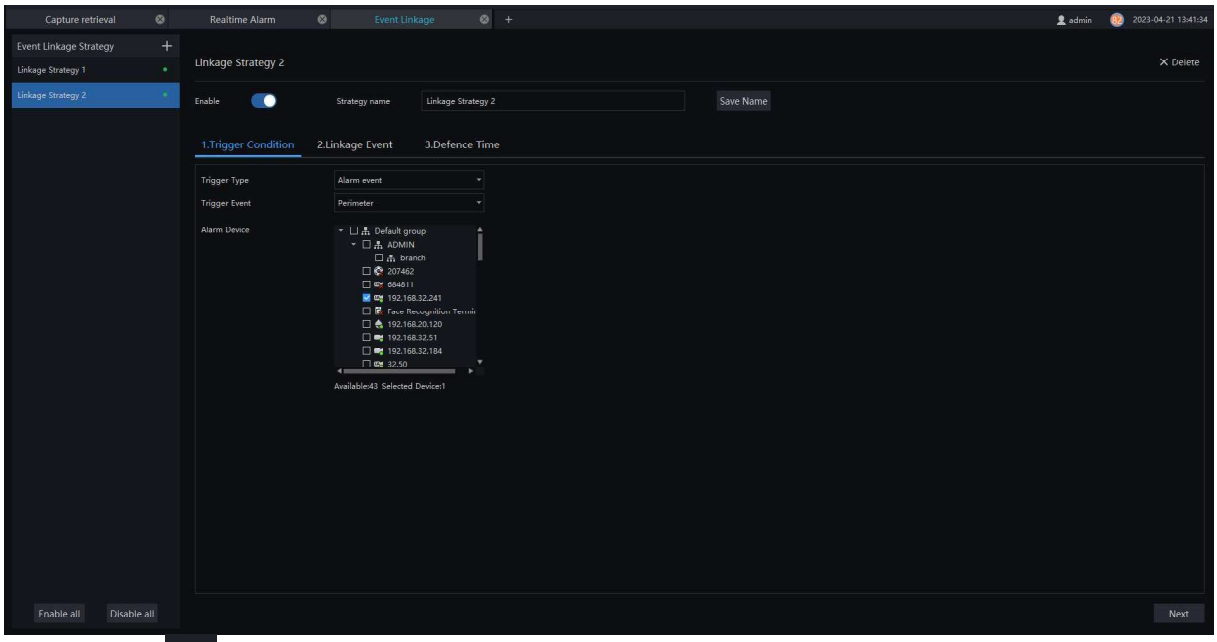
Realtime video: Allows dynamic switching of the real-time alarm videos for devices placed on the electronic map.

Live View from E-Map: Clicking a camera icon on the E-Map will open its live video or playback video stream directly.

6.9 Event Linkage

The **Event Linkage** function is used to configure automated actions triggered by device alarms. User may link alarms to actions such as real-time monitoring, event recording, PTZ tracking, pop-up windows, email notifications, and more.
This feature greatly improves the efficiency of alarm management by enabling automated system responses, as shown in Figure 6-45.

Figure 6-44 Alarm Linkage



Step 1 Click  Click the Add button to create a new event linkage strategy.
Step 2 Enable the strategy and set the name of strategy.
Step 3 Choose the **Trigger Type**: either **Alarm Event** or **Timing**, as shown in Figure 6-46.

Step 4 If you select **Timing**, you must set the trigger time or select the repeat option.

Step 5 If you select **Alarm Event**, you must choose the event type and the alarm devices, as shown in Figure 6-47.
Step 6 Click **Next** to configure the **Linkage Event**. Select one or more actions to be triggered by the alarm, as shown in Figure 6-48.
Step 7 Click **Next** again to configure the **Defense Time.**
Step 8 A Click Apply to save all settings.

6.9.1.2 Trigger Condition

- Select the type of trigger: either an **Alarm Event** (such as motion detection, temperature alarm, etc.) or a **Timing** event.
- For timing events, specify the trigger time and whether it repeats.
- For alarm events, choose the alarm source device(s) and event type(s).

Figure 6-45 Trigger condition

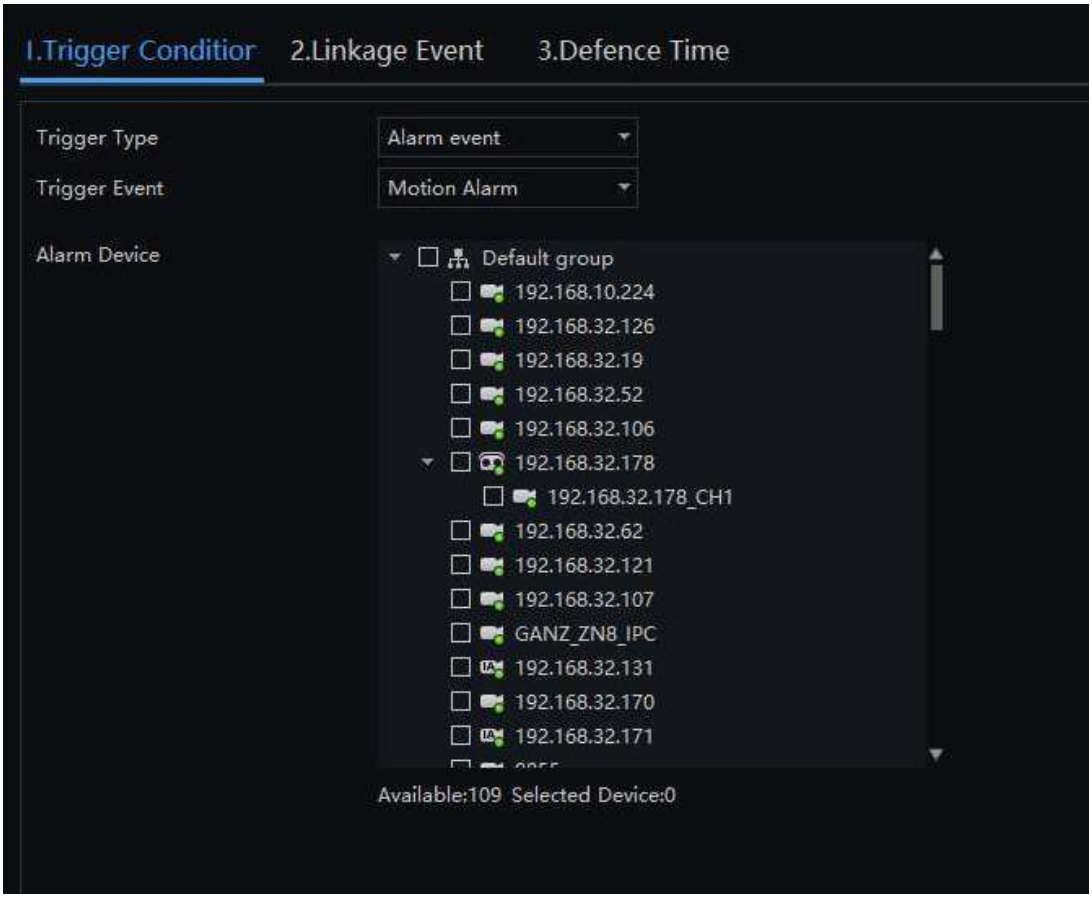
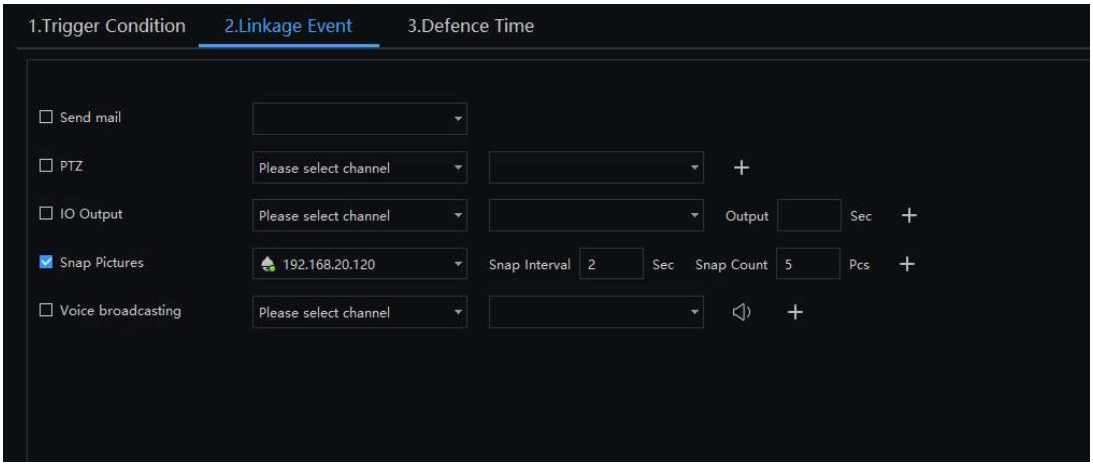


Figure 6-46 Linkage event



6.9.1.3 Linkage Event

Configure the specific actions the system will perform when the alarm or timing event is triggered:

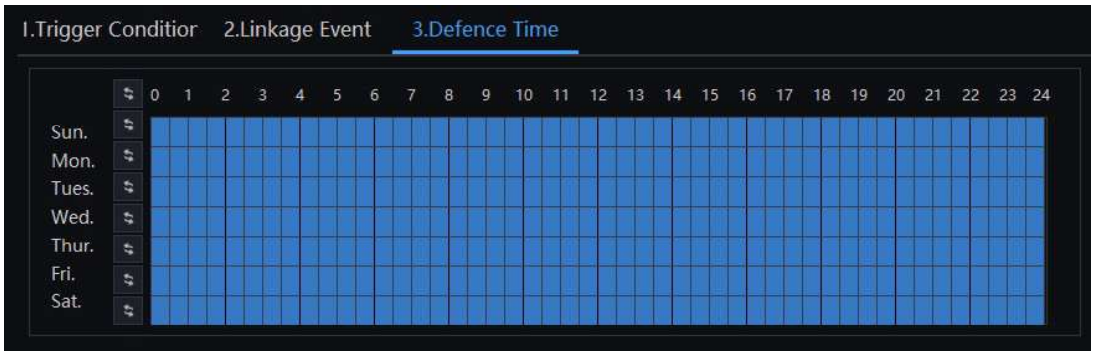
- **Send Email**:
  Set the recipient email address to receive an alarm notification.
- **Trigger PTZ Preset**:
  If a PTZ camera is linked, set it to move to a specific preset position during the alarm.

- **IO Output**:
  If the device supports IO output, select the output channel and configure the output parameters.
- **Snap Picture**:
  Choose the cameras that should capture snapshots when an alarm occurs.
  The captured images can later be searched using the **Capture Retrieval** function page.
- **Voice Broadcasting**:
  Select a device with an integrated speaker or connected to an external speaker.
  Import a voice file and configure voice broadcast reminders for alarms.

6.9.1.4 Defense Time

Configure the active time period during which the event linkage strategy will operate. Outside of this set defense time, the linkage will not trigger even if an event occurs.

Figure 6-47 Defense time



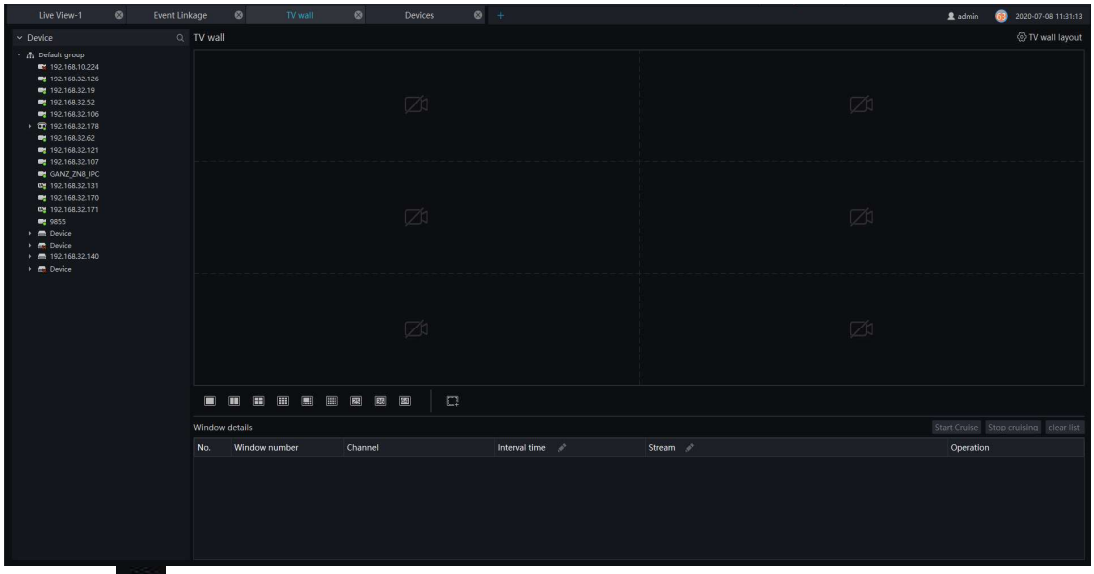
6.10 TV Wall

NOTE

This function is only available for **Windows** systems. It is not supported on **Mac** systems.

The TV Wall function allows users to connect a decoder and push live video streams directly to a TV wall display. The connection between the decoder and the TV wall can be made using VGA or HDMI. When a channel is selected, the decoder immediately pushes the video stream to play on the TV wall, as shown in Figure 6-48.

Figure 6-48 TV wall



Step 1 Click  Click the TV Wall icon on the Main Menu Page to enter the TV Wall interface. Click the **Settings** icon at the upper right corner of the interface to set the TV wall layout. The default layout is **2×2**.

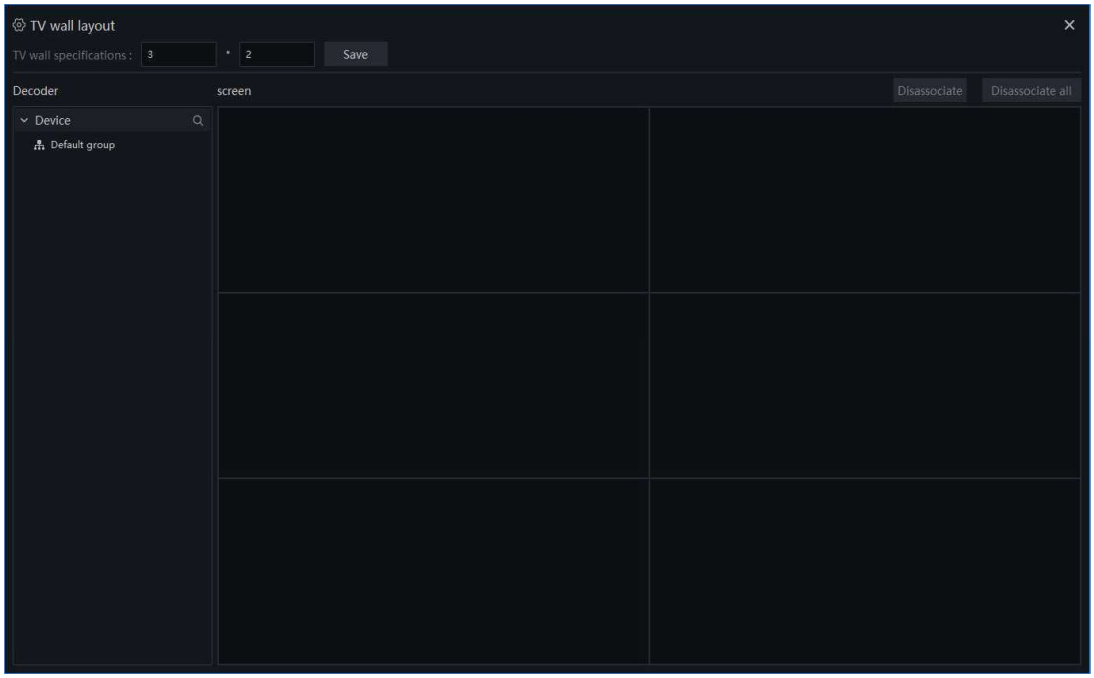
Step 2 Drag an online channel to the TV Wall.

Step 3 When dragging for the first time, the system will prompt: **"Please bind the decoder output port first."**

Step 4 Complete the decoder binding in the interface settings.

Step 5 Set After successful binding, you will be able to watch live video directly on the TV wall.

Figure 6-49 TV wall layout



The TV wall supports automatic sequence playback of videos.

6.11 Capture Retrieval

The **Capture Retrieval** function is used to search for images captured during event linkages. During the defense time, user may search the alarm source equipment and view panoramic images captured by other linked devices.

Figure 6-50 Capture retrieval

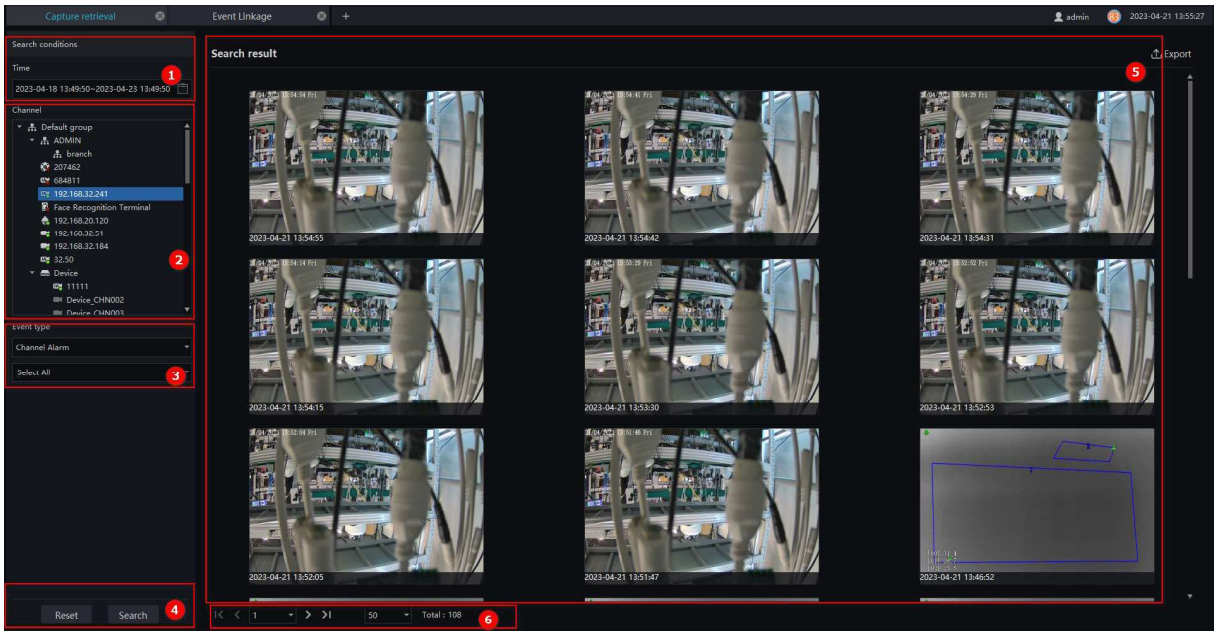
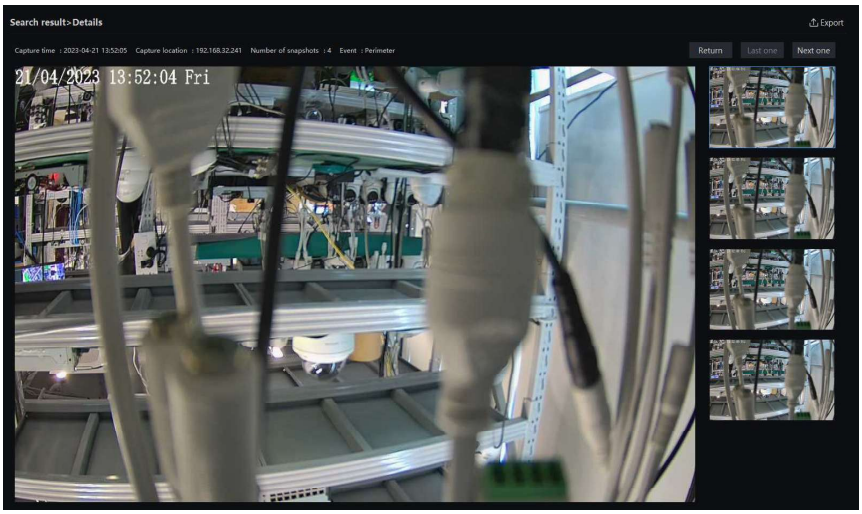


Table 6-11 Capture retrieval

No.	Function	Description
1	Time	Click  the calendar icon to set the time range. Maximum search range is 7 days.
2	Channel	Select the alarm source device you want to search.
3	Event type	Choose the event type and alarm type for the search.
4	Reset / Search	Click 'Reset' to reset the condition. Click 'Search' to search.
5	Result	Displays the search results. Click on an image to view detailed information. Results can be exported to a local folder.
6	Page	Navigate through pages to view more search results. Shows the device display page, next page options, and the total quantity.

Figure 6-51 Details of result



7 Configuration Maintenance

The **Configuration Maintenance** section allows you to manage and maintain system devices, logs, users, server settings, alarm email configurations, and regional information.

7.1 Devices

The **Device Management** page allows you to add devices such as IPC, DVR, NVR, thermal cameras, face capture cameras, and human thermometer devices.

User may add devices by automatic search, manual addition, or batch import. On the Main menu page, click  , enter the detailed page, as shown in Figure 7-1

Figure 7-1 Device Management interface

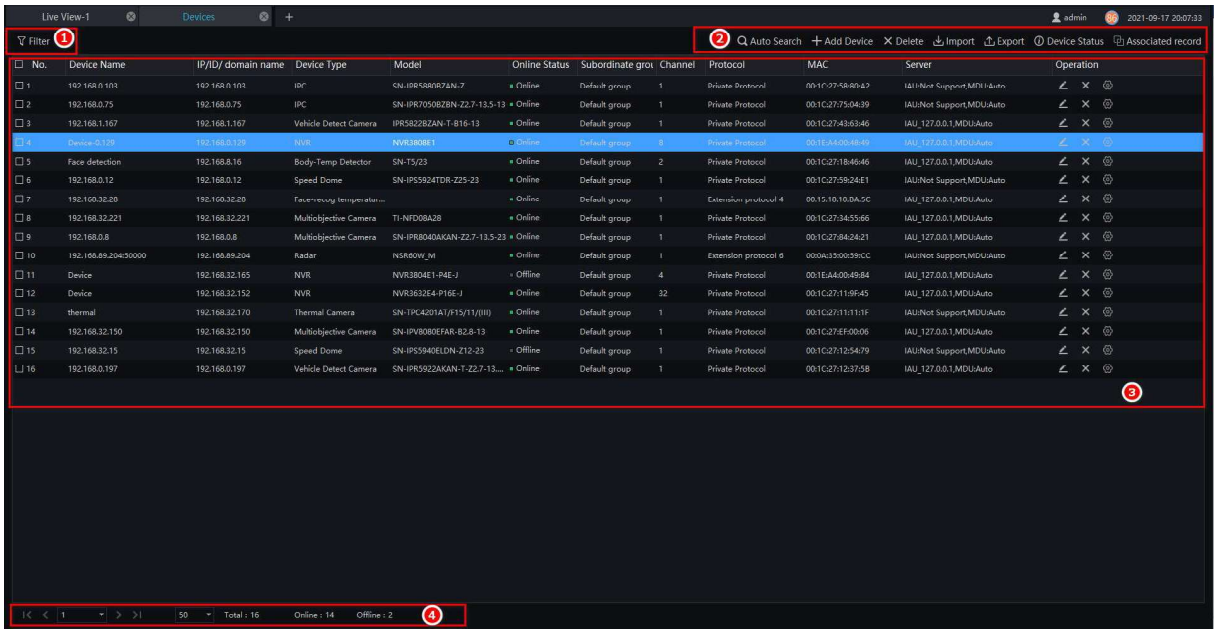


Table 7-1 Device Management

No.	Function	Description
1	Filter	Filter the device by setting device type, online status and device name.
2	Operation	Perform operations such as search, add, delete, export, import devices, view all device status, and manage associated recordings. If the camera and NVR are both connected to the platform, the platform can directly retrieve video recordings from the NVR as if they were recordings from an IP camera.

No.	Function	Description
3	Device information display	Shows detailed device information. Provides quick access to edit or delete devices and quickly enter device configuration settings.
4	Page	Navigate between pages to display more devices. Shows current page, next page, and total quantity of devices.

7.1.1 Auto Search

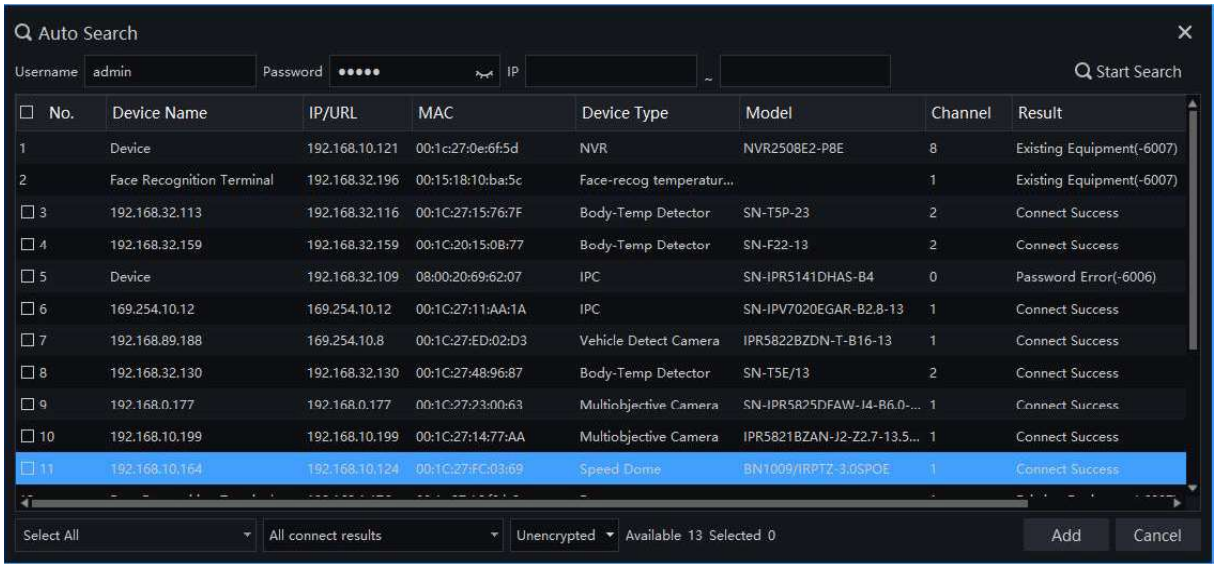
Click the **Auto Search** icon to open the Auto Search page. The device and the server are on the same network segment.

Procedure:

Step 1 On device management page click 

the **Auto Search** icon to open the Auto Search page, as shown in Figure 7-2.

Figure 7-2 Auto search page



Step 2 Enter the device's username and password. Set the IP address range to search.

Step 3 Click **Start Search**. The system will automatically discover devices within the specified network segment.

Step 4 Select the devices to add and click **Add**.

TIP

If the connection fails, check the device password or manually adjust device settings.

7.1.2 Manual Add

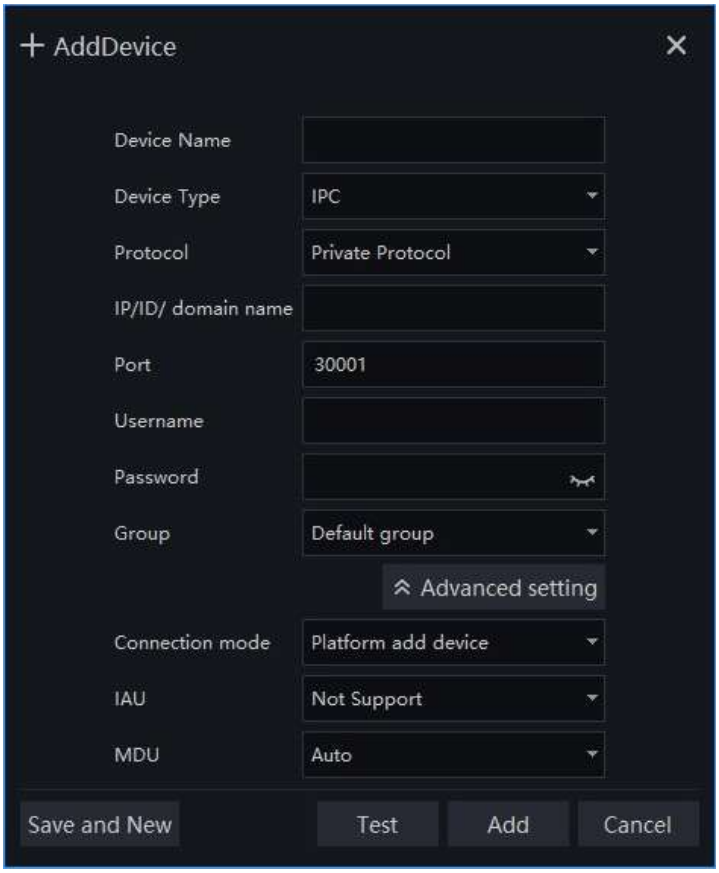
Procedure:

Click the **Manual Add icon** to open the Manual Add page.

Step 1 Click 

the Manual Add icon to open the Manual Add page, as shown in Figure 7-3

Figure 7-3 Manually add device page



CAUTION

The intelligent analysis server does not support auto, only supports cameras with face detection;

The media distribution server supports automatic, such as multiple media distribution servers for load balancing.

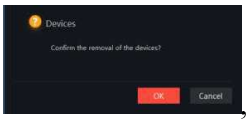
Figure 7-4 Server associated

For advanced setting, the default connection mode is **Platform add device**, if you want to switch to **Device active registration mode**, you should set the parameters at device's web interface (Configuration > Network Service > Platform Access) in advanced.

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

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

Step 4 Pop-up A confirmation pop-up will appear when the device is successfully added.

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

, click “ OK ” to delete the cameras.

7.1.3 Export and Import Device

Procedure:

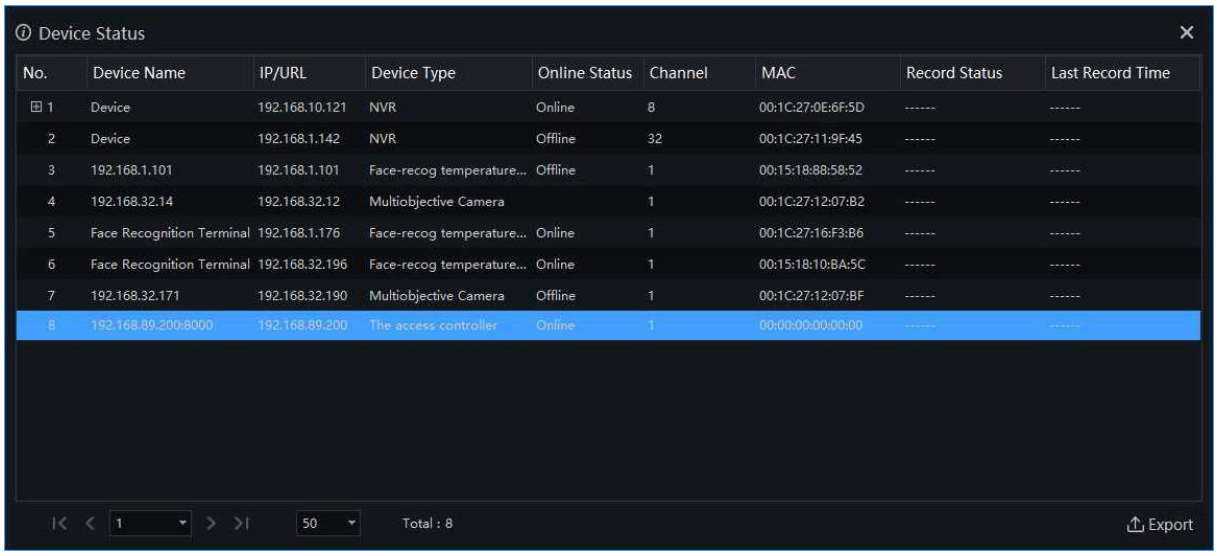
Step 1 Click “Export”.
Step 2 Click “Export Template”, edit information at template page.
Step 3 Click “Import”.
Step 4 Select files to be imported, click “Save”, import device successfully.
--End

7.1.4 Device Status

Procedure:

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

Figure 7-5 Device Status



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

7.2 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.

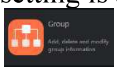
On the main menu page, click  to enter detailed page, as shown in Figure 7-6.

Figure 7-6 Organization interface

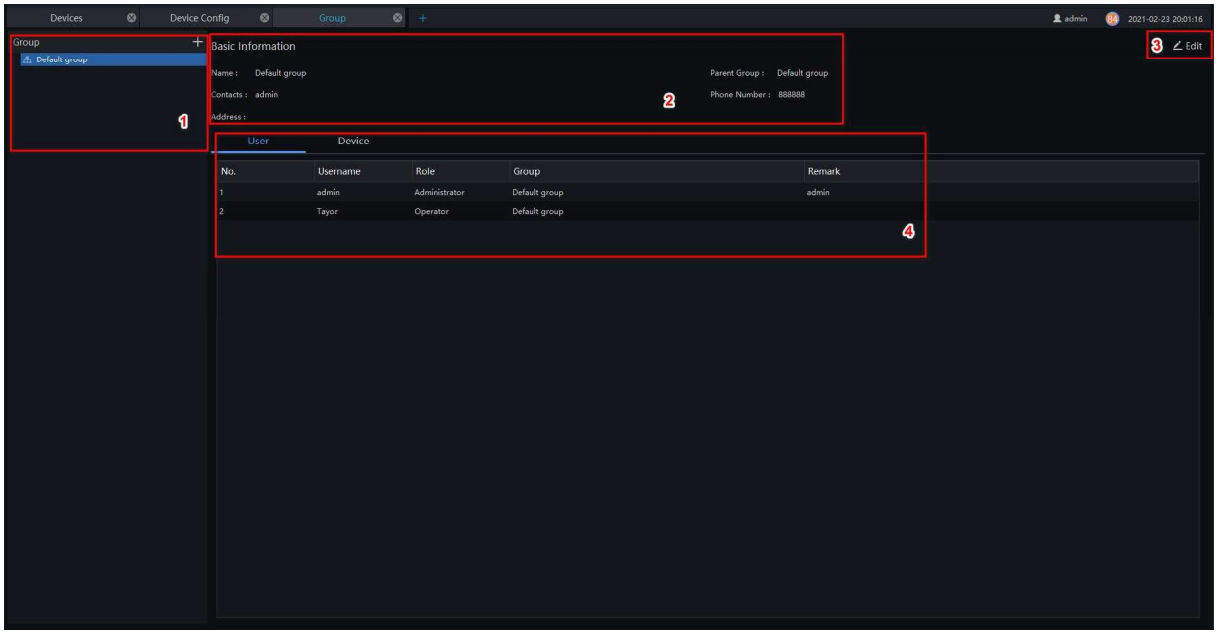


Table 7-2 Organization

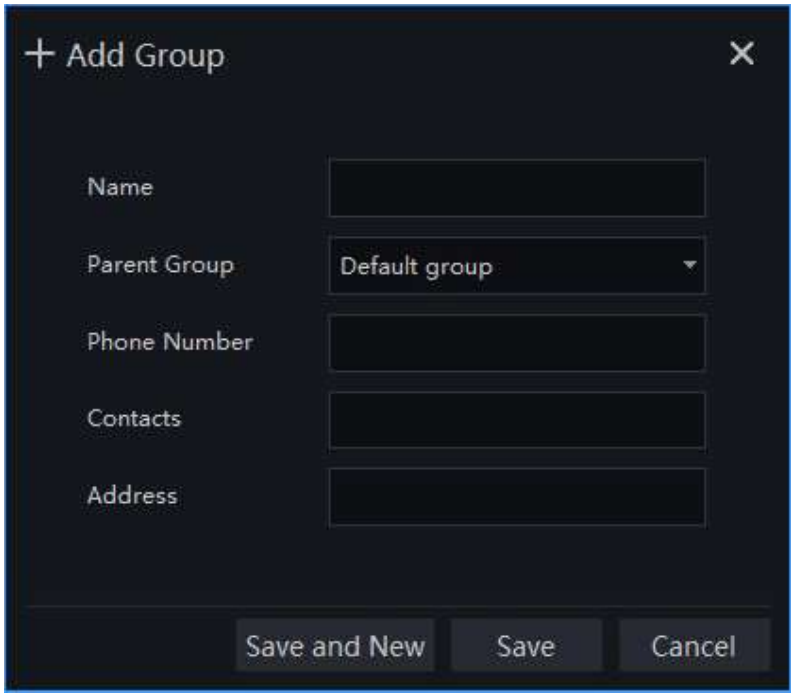
No.	Function	Description
1	Group	Display group tree, new group can be added by clicking +
2	Basic Information	Display basic information of device or group
3	Edit	Basic information can be edited by clicking "Edit"
4	Display area of user or device	Display information of user or device

7.2.1 Add Group

Procedure:

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

Figure 7-7 Add group



Step 2 Input name, phone number, contacts and address. Choose the parent organization
Step 3 Click “Save and New” to save and build a new one at the same time.
Step 4 Click “Save” to save and finish the adding.

7.3 Log

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

On the main menu page, click  to enter the detailed page, as shown in Figure 7-8.

Figure 7-8 Log management interface

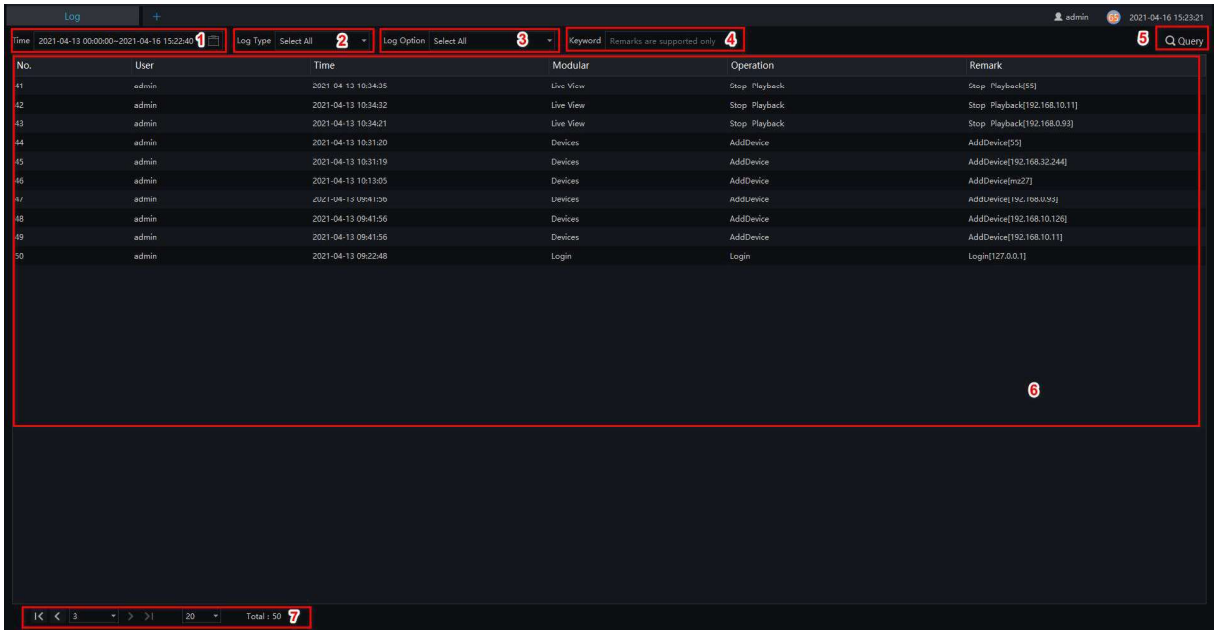


Table 7-3 Log management

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 mobile log, operation logs, system logs and service log.
3	Log options	The default is to select all. There are many options to select, and more details logs can be chosen alone, more details please refer to actual product.
4	Keyword	Set keyword to query quickly.
5	Query	Search logs according to the previous settings
6	The query show	Query result display area.
7	Interface display	Show the current page of logs, and the page displays the number of logs, switch to next page.

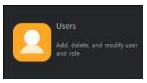
7.4 User

The **User** page allows you to add users, modify user privileges, search for users, and delete users through the user management features.

The system includes two default roles:

Administrator: Has all privileges.

Operator: Has partial privileges.

On the main menu page, click the User icon 

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

Figure 7-9 User management interface

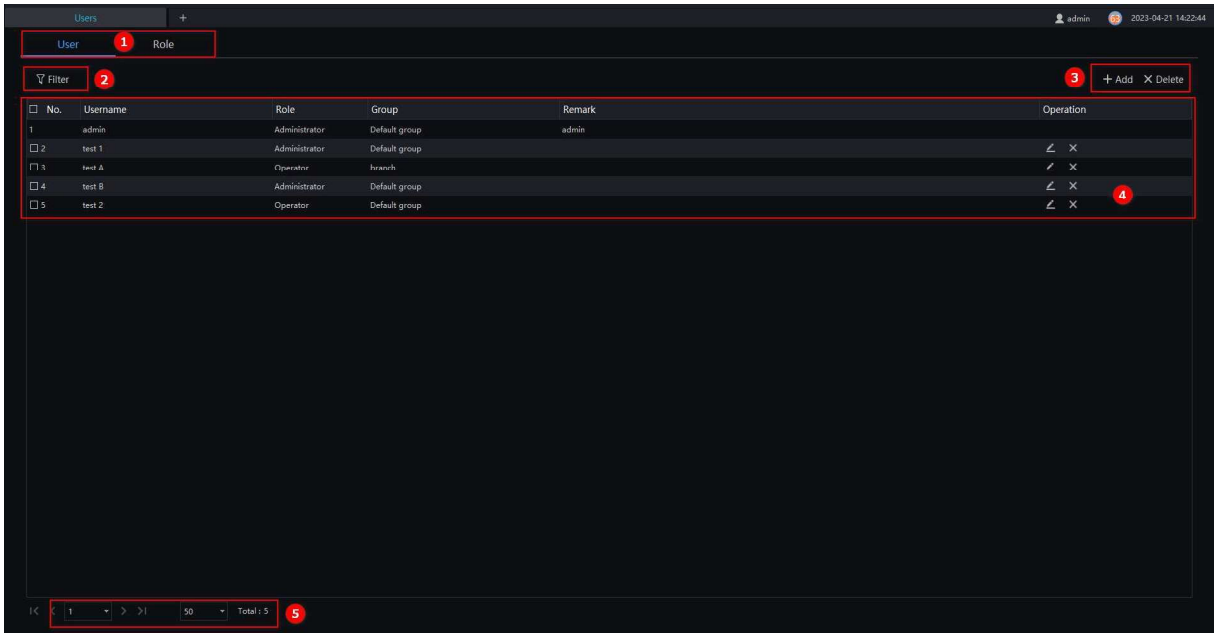


Table 7-4 User management

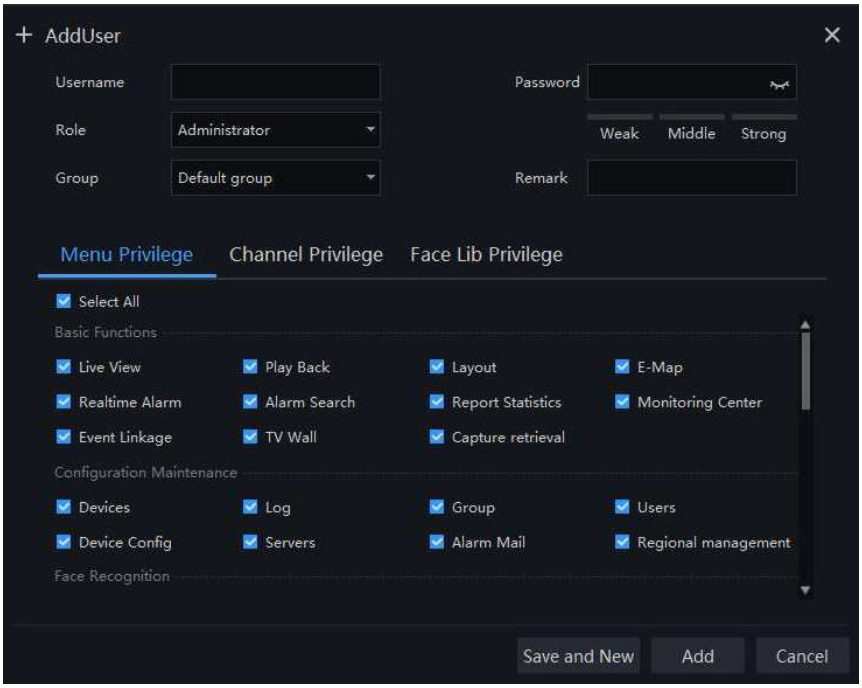
No.	Function	Description
1	User and role	Select whether to operate on a user or a role.
2	Filter	Quickly filter users by role, group, or username.
3	Add/Delete	Add/delete user or role.
4	Display area	Shows user or role information.
5	Edit/Delete	Click the **Edit** or **Delete** icons to manage the selected user or role.
6	Interface display	View the current page of users/roles and navigate to other pages.

7.4.1 Add User

Procedure:

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

Figure 7-10 Add User



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** to continue adding more users or click **Add** to complete. A pop-up message **"Add Successfully"** will confirm when the user is created.

7.4.2 Add Role

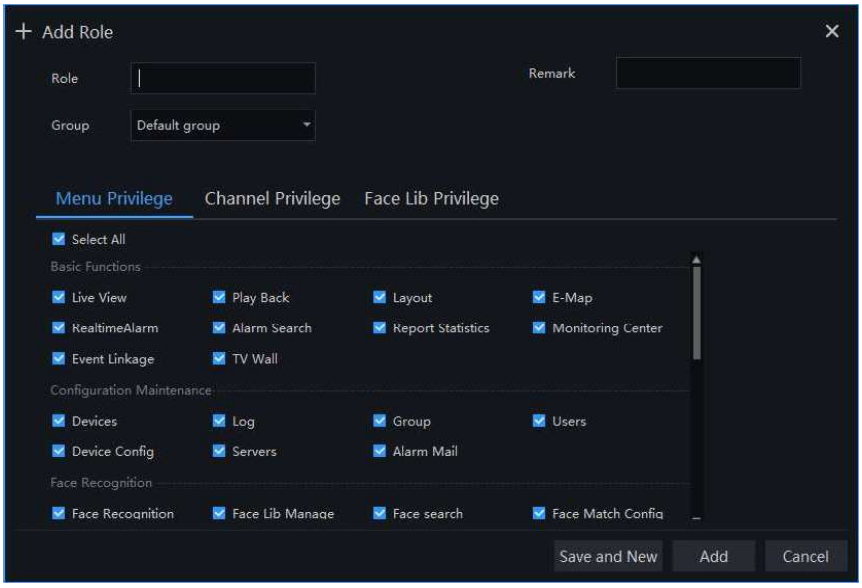
Procedure:

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

Figure 7-11 Role interface

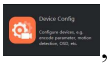
Step 2 Click “Add”, input role name, select organization, shown as figure 7-4.

Figure 7-12 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.

7.5 Device Config

At the **Device Config** interface  , user may view and configure parameters for front-end devices. Supported settings include:

- IPC (Network Camera): Configure bitrate, motion detection, OSD, and image parameters.
- NVR (Network Video Recorder): Configure recording strategies and disk management.
- Thermal Cameras: Configure thermal parameters, smoker detection, and flame detection.

For additional device-specific settings, click Link Web to open the device's web interface directly.

Note: Link Web is not available for Mac systems, as shown in Figure 7-13.

Figure 7-13 Device configuration interface

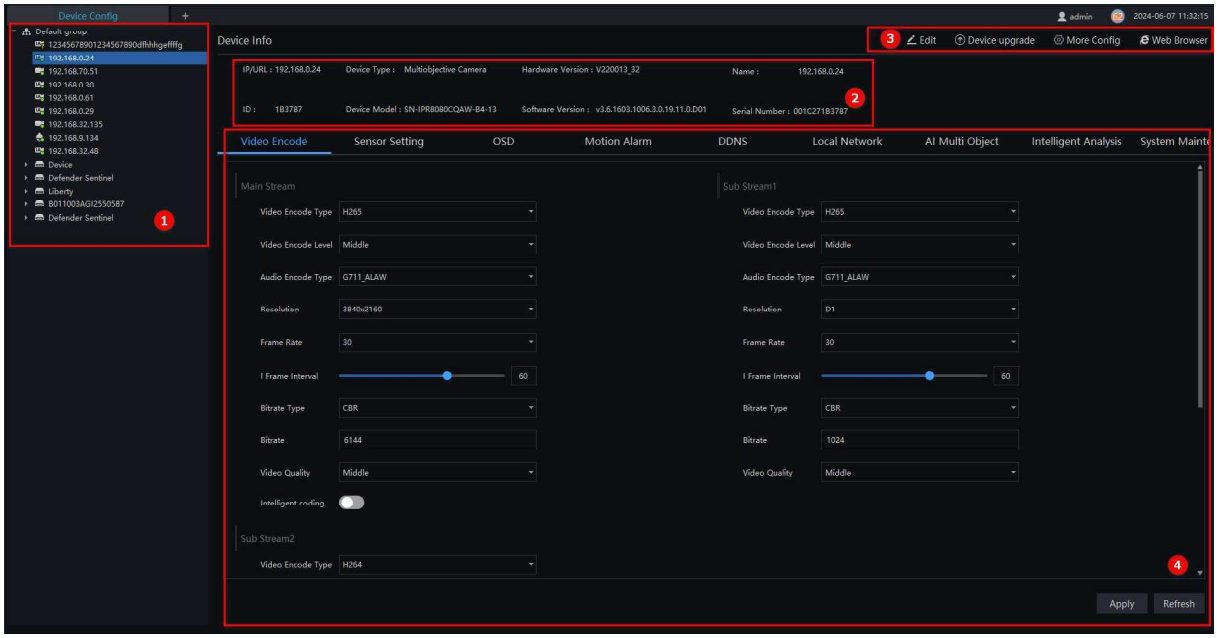


Table 7-5 Device configuration

No.	Function	Description
1	Organization structure	Displays the organizational structure of devices.
2	Basic Information	Shows basic information about the selected device.
3	Edit / Device upgrade/ More config / Web browser	**Edit**: Modify device information. **Device Upgrade**: Upgrade device firmware. **More Config**: Jump to the web interface of the device (auto-login, no password input needed, Windows only). **Web Browser**: Open device's web page directly (manual login required).
4	Device configuration information	Displays and allows modification of device settings. Click **Apply** to save changes.

No.	Function	Description
--	Panel settings	Set UI parameters, temperature measurement mode, temperature parameters, panel prompt tone and picture setting, and so on.
--	Access control conditions	Set unlocking conditions, wiegand setup.
--	The general alarm switch of NVR	The general alarm switch will control all alarm settings. If the general alarm is disable, the other alarms will be disable for all.

Figure 7-14 More config

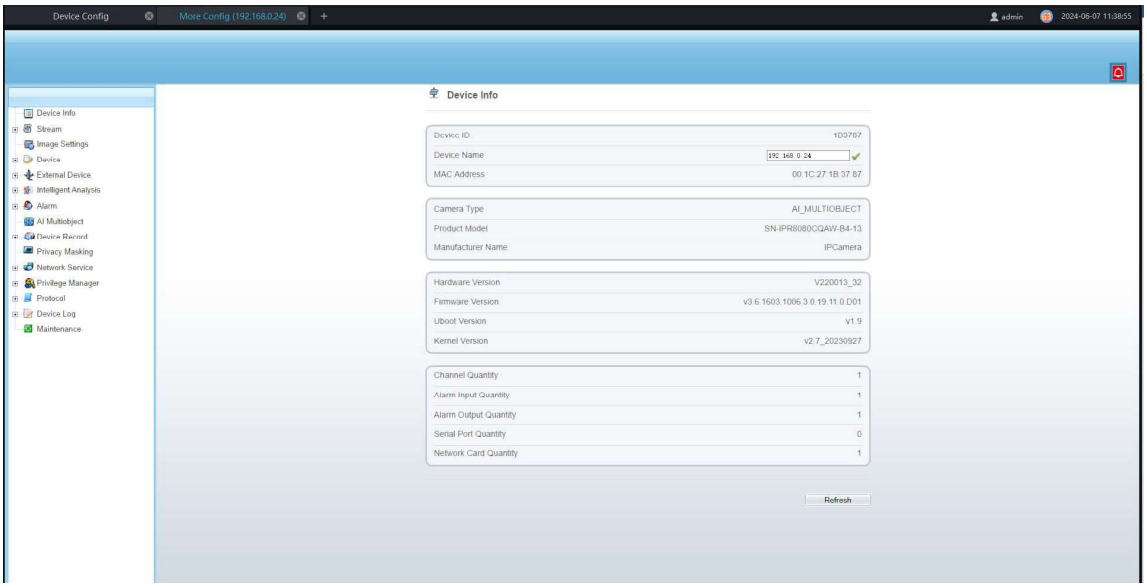
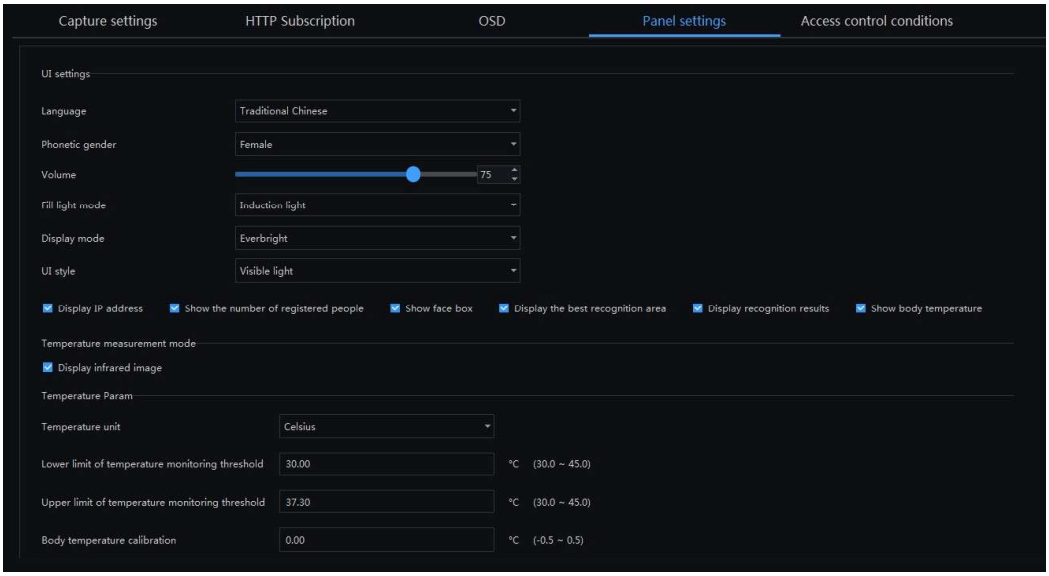


Figure 7-15 Panel settings



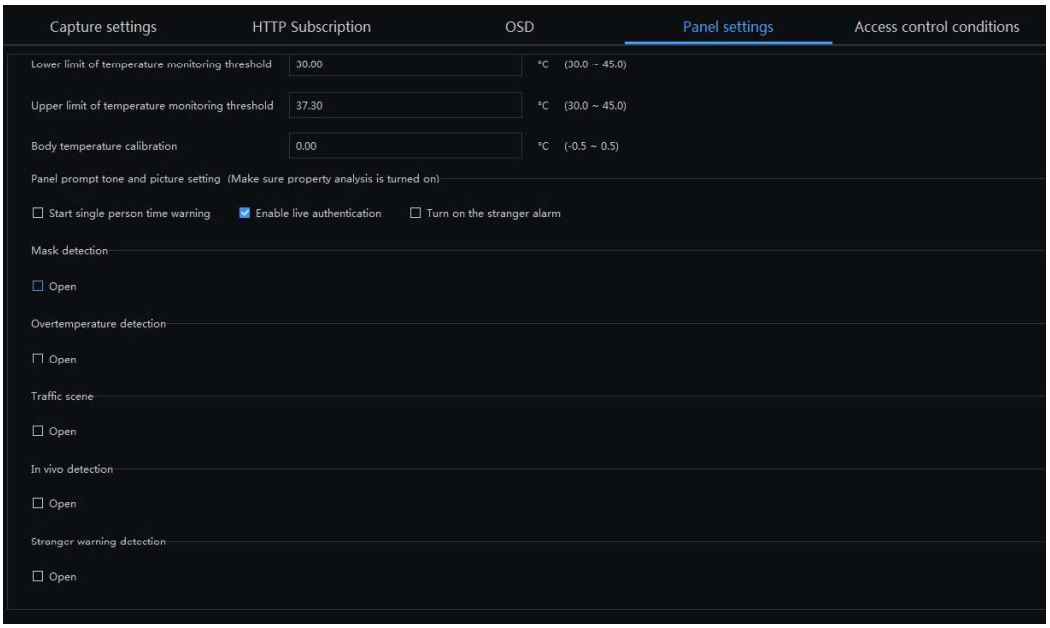


Figure 7-16 Access control conditions

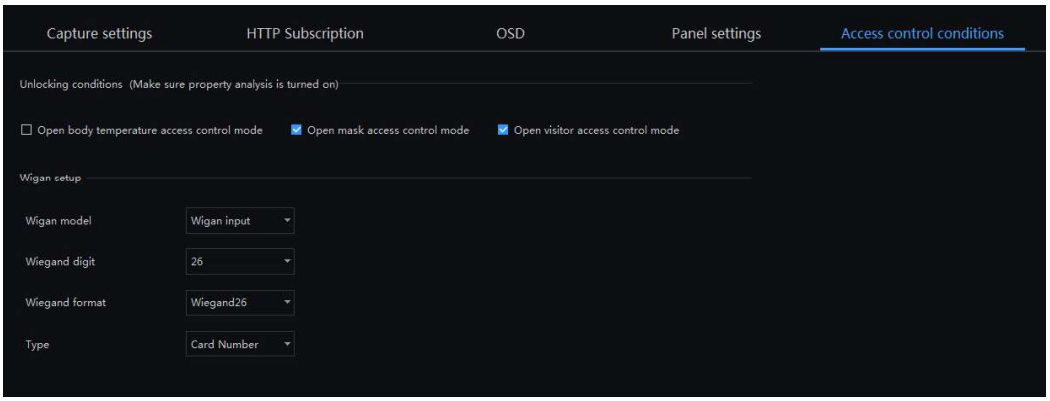
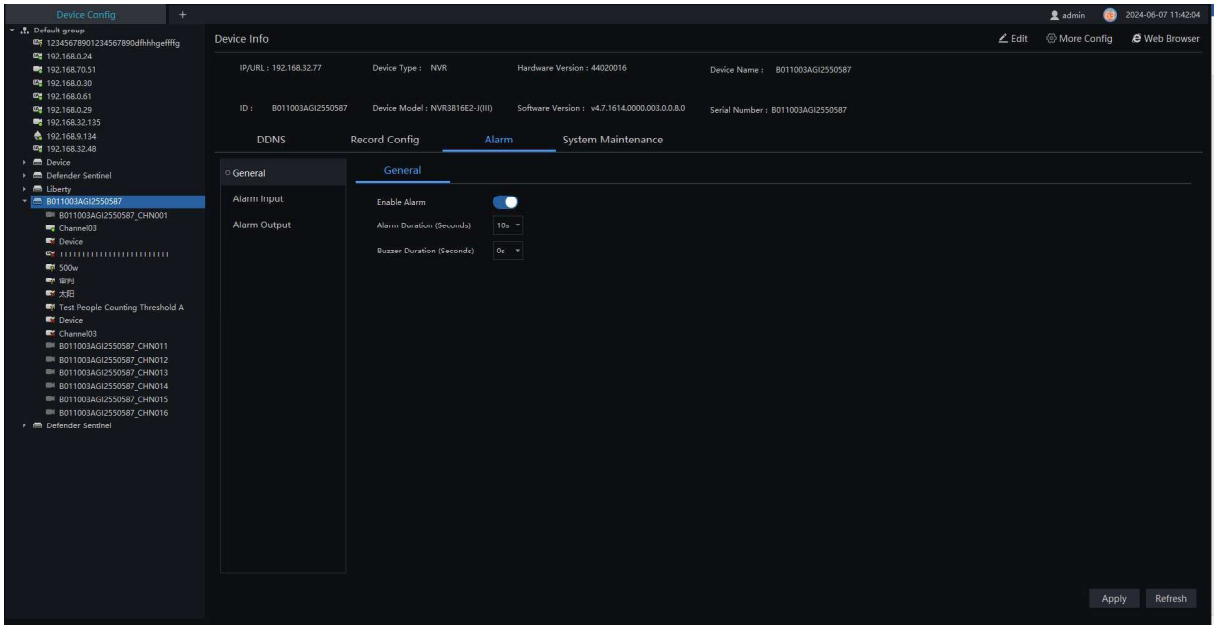


Figure 7-17 General alarm switch of NVR



7.6 Servers

At the **Servers** interface, user may view the running status, performance data, and parameter configuration of all platform servers. This helps you understand server operation and maintain the system efficiently.

On the main menu page, click the  icon to enter the detailed page, as shown in Figure 7-18.

Figure 7-18 Servers interface

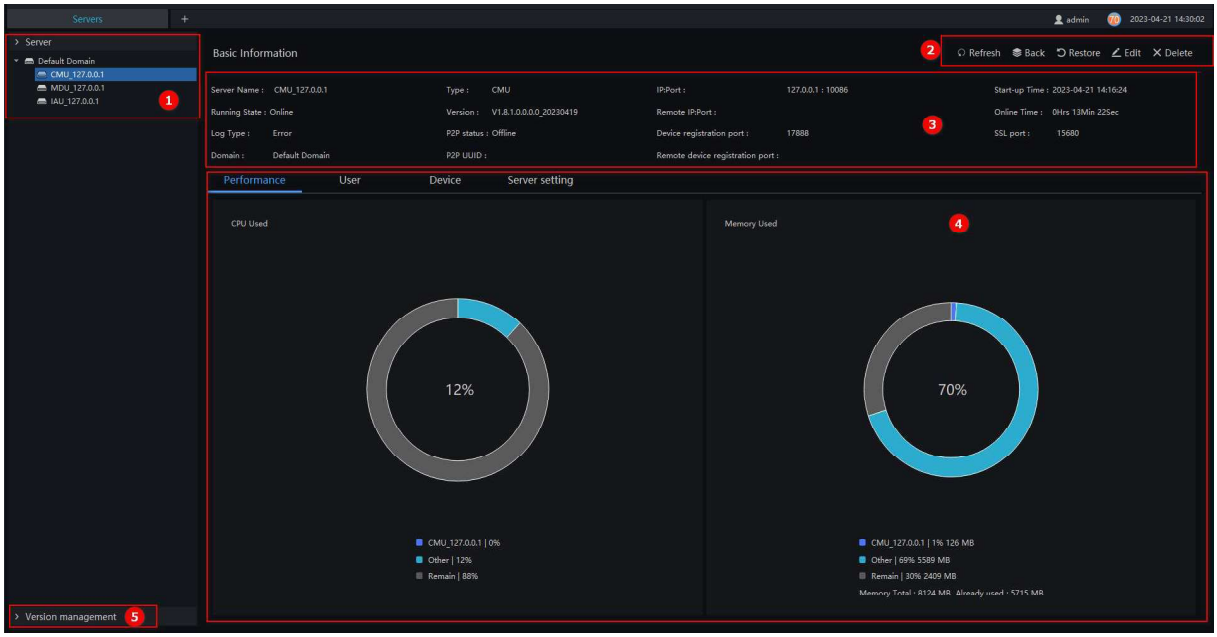


Table 7-6 Server management

No.	Function	Description
1	Server	Displays all servers in the Default Server Domain, including CMU, MDU, and IAU servers.
2	Basic information	Shows detailed information of the selected server. Edit the P2P UUID to allow mobile access and management of the platform. Click **Edit** to modify the server name, select the log level, and set log retention days. Click **Save** to save changes.
3	Basic operation	Refresh, edit, or delete server-related information.
4	Performance, other information display	Shows server performance metrics and capture information.
5	Version management	Release new software versions to servers and upgrade the linkage client versions.

7.6.1 Central Management Server

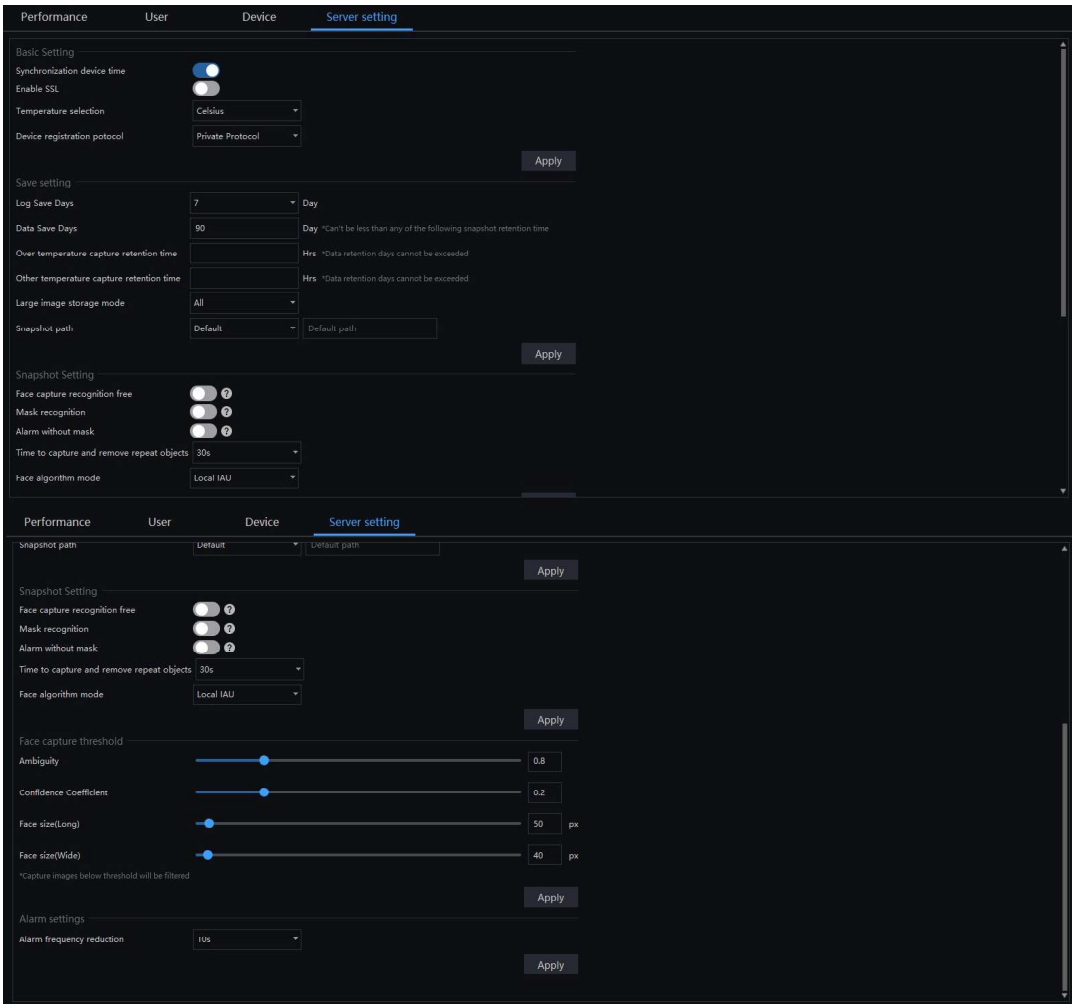
The **Central Management Server** handles overall platform control.

Main Functions：

- **Data Backup and Recovery**
  - **Backup**: Downloads platform data (users, devices, servers, alarms, logs, face photos) from the server where VMS is installed.
  - **Recovery**: Uploads backup data to servers to restore full platform operation.
- **Server Settings**

  Configure the following settings, as shown in Figure 7-19:
  - **Snapshot Face Capture Threshold**: Sets detection thresholds for face capture across all applicable cameras.
  - **Over/Other Temperature Capture Retention Time**:
    - **Null**: Follows the general data retention setting.
    - **0**: Captured images are not saved.

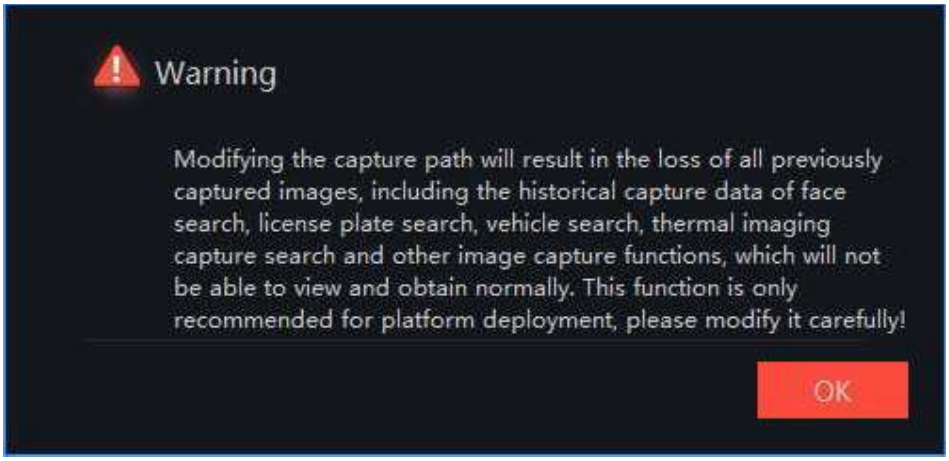
Figure 7-19 Server Setting



Server Settings Categories:

- **Basic Setting:** Device time synchronization, enable SSL encryption, temperature units, device registration protocols (support private protocol encryption).
- **Save Setting:** Configure log save days, data save days, capture retention times, large image storage mode, and snapshot path.
- **Snapshot Setting:** Face recognition free settings, mask recognition, alarm without mask, heavy object filtering, and face algorithm mode. When you modify the snapshot path, you must attention that, as shown in Figure 7-20

Figure 7-20 Modifying capture path

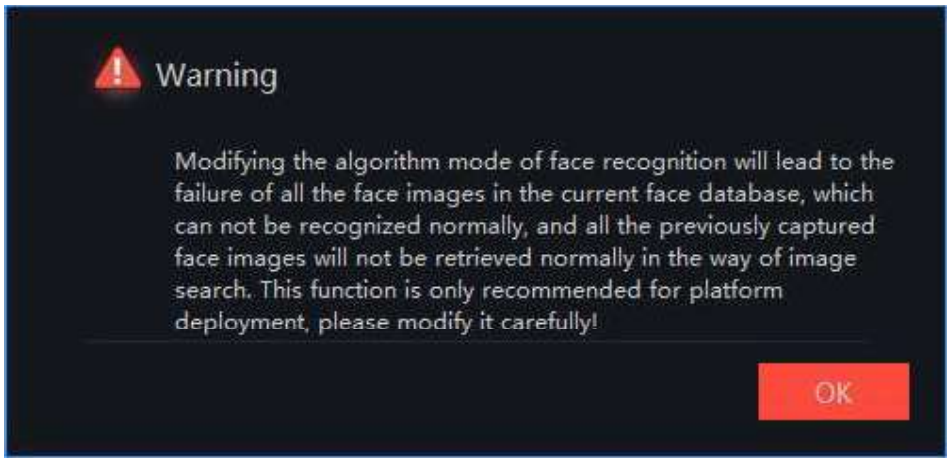


Important Reminders：

- Modifying the snapshot path and face algorithm mode must be done carefully.
- Enable device time synchronization to avoid inconsistencies.
- Choose the appropriate temperature unit for system-wide consistency.
- Enabling mask recognition will allow the system to detect individuals not wearing masks and trigger alarms.

(Image references: Figure 7-20 – Modifying Capture Path, Figure 7-21 – Modifying Face Algorithm Mode).

Figure 7-21 Modifying face algorithm mode



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

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

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

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

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

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

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

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

Step 9 Face capture threshold, ambiguity, confidence coefficient, face size length and width.
Step 10 Click "OK" to save the settings.

NOTE

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

Face capture threshold: ambiguity, confidence coefficient, face size (long), face size (wide).
Alarm frequency reduction: when the same alarm occurs frequently, set the time to filter the same alarm information.

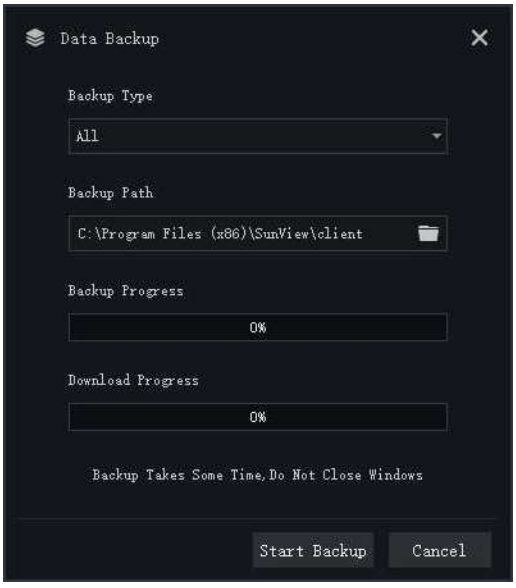
7.6.1.1 Data Backup

The Data Backup **function saves platform data by downloading it from the server where the VMS is installed.**

Procedure:

Step 1 Click the **Backup** button at the upper right of the screen. A pop-up window will appear, as shown in Figure 7-21.

Figure 7-22 Date backup



Step 2 Select the **Backup Path** by browsing to the desired local folder. Click **Start Backup**.
The system will back up all server data, including users, devices, servers, alarms, logs, and face photo libraries.

Step 3 When the backup is complete, the progress bar will display 100%

Step 4 Click  to exit backup.

7.6.1.2 Date Restore

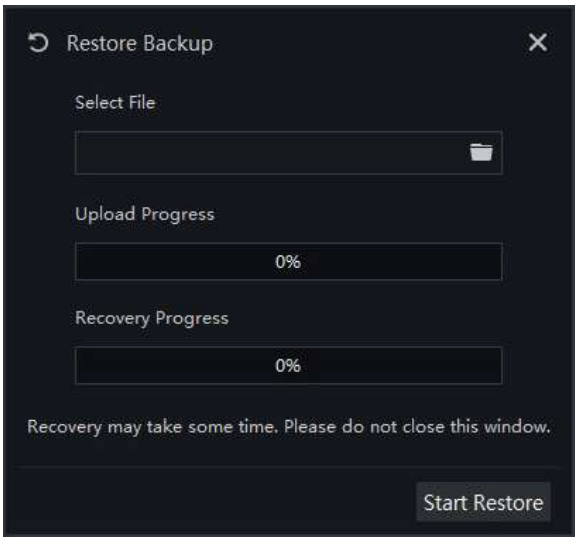
The **Data Recovery** function restores the platform using previously backed-up data.

Procedure:

Click 

button. A pop-up window will appear, as shown in Figure 7-22.

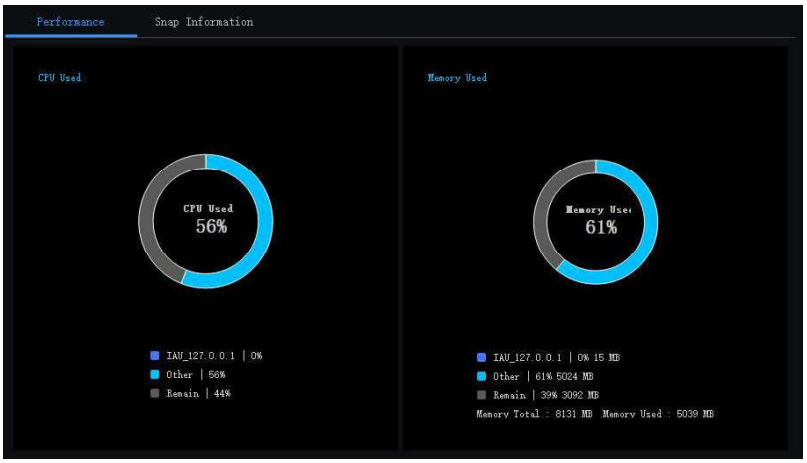
Figure 7-23 Restore backup



7.6.2 Media Distribution Server

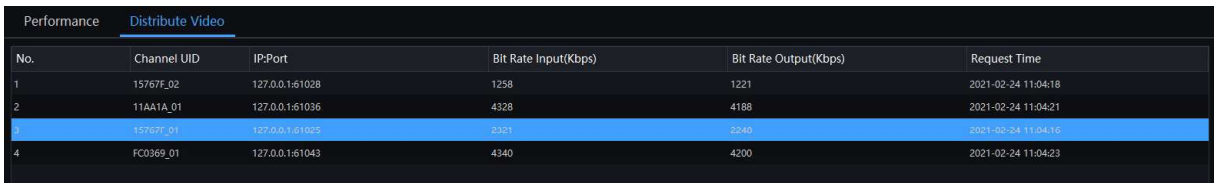
7.6.2.1 Performance

Figure 7-24 Performance



7.6.2.2 Distribution Status

Figure 7-25 Distribution Status



7.6.3 Intelligent Analysis Server

7.6.3.1 Performance

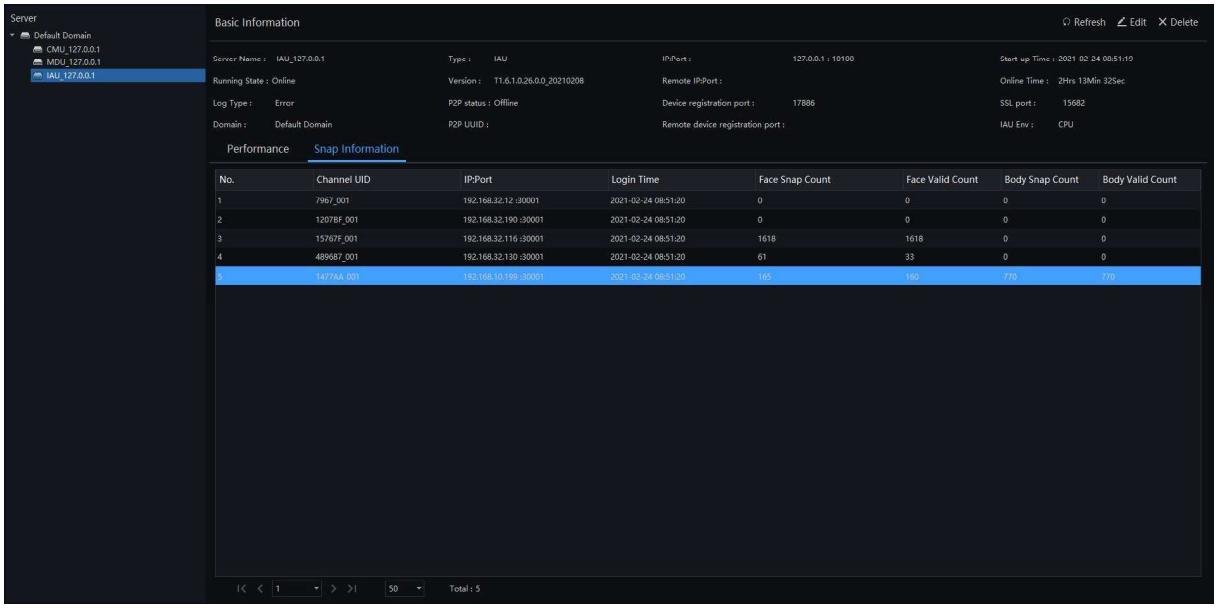
Please refer to chapter 18.2.1

7.6.3.2 Snap Information

NOTE

This function is generally applicable to the face capture device, it can analyze image if the device captures normally. If the number of captured face is 0, please check whether the camera is configured correctly. The details are shown as Figure 7-26.

Figure 7-26 Snap information



7.6.4 Version Management

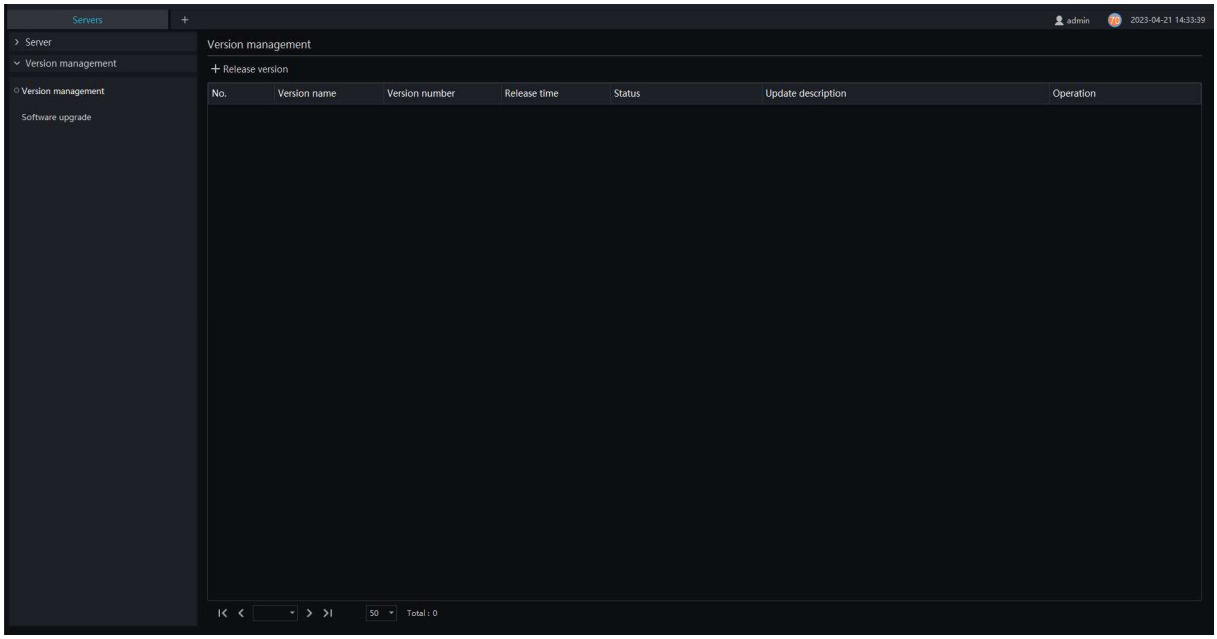
7.6.4.1 Version Management

The **Version Management** function is used for centralized deployment and upgrade of server and client software across the platform.
It helps ensure that all components are running the latest versions easily and consistently.

When a server uploads and upgrades the latest software version, all linked clients connected to the server can receive upgrade notifications and manually update their software.

.

Figure 7-27 Version Management

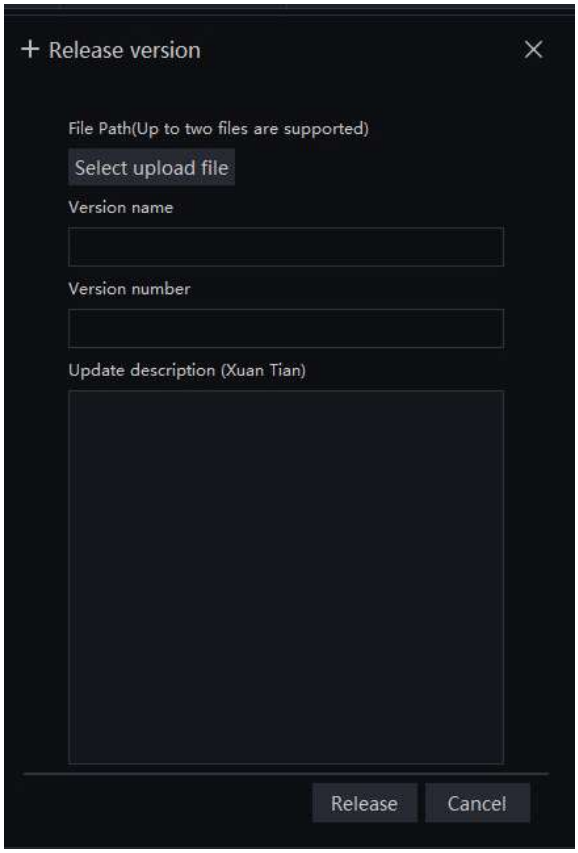


7.6.5 Version Management Process

At the **Version Management** interface:

- Click **Release Version** to upload the latest version package.
- After uploading, the new version will appear in the version list.
- Administrators can then operate version management tasks from this list.

Figure 7-28 Release version

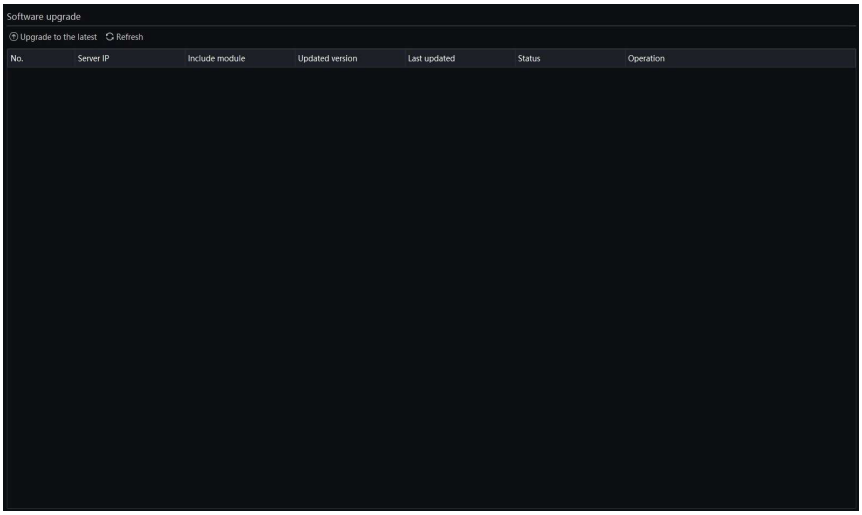


7.6.5.2 Software Upgrade

In the **Software Upgrade** interface:

- After uploading the version package to the server, click **Upgrade to the Latest** to start the server upgrade process.
- Clients associated with the same server will detect the new version and display an **Upgrade Reminder**.

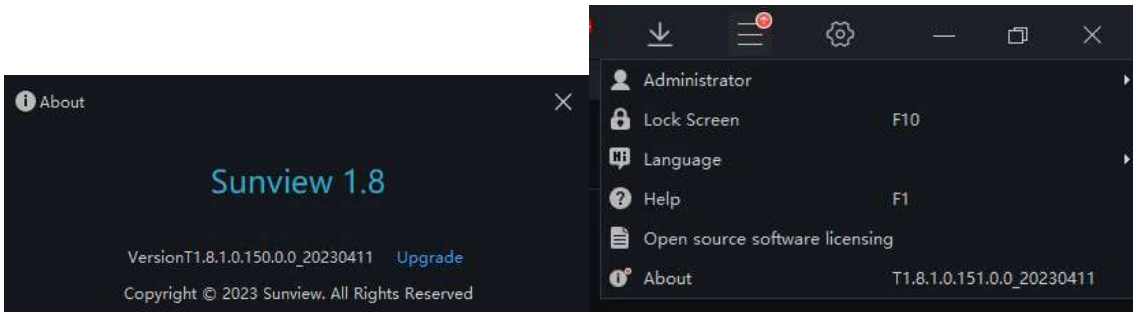
Figure 7-29 Software upgrade



When a client is opened:

- If an upgrade is available, a pop-up message will appear prompting the user to upgrade.
- If the user ignores the pop-up, they can still find the upgrade reminder in the **About** section of the client.

Figure 7-30 Upgrade clients



7.7 Alarm Mail

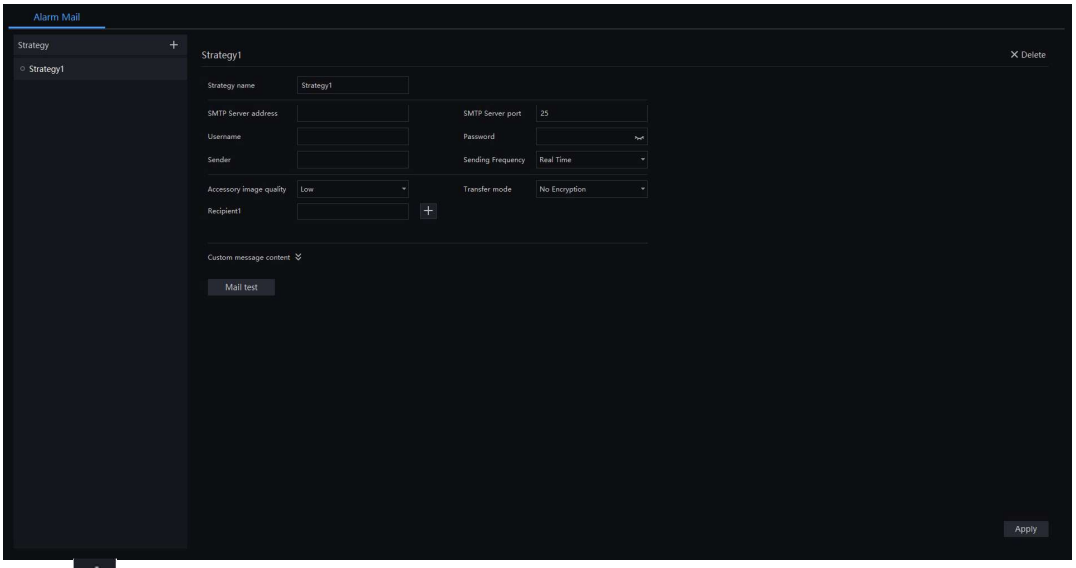
The **Alarm Mail** function allows you to configure sender and recipient email information so that alarm notifications can be automatically pushed to designated personnel via email.

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 

icon to enter the Alarm Mail detailed page, as shown in Figure 7-31.

Figure 7-31 Alarm mail



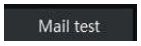
Step 1 Click  to create a new alarm mail strategy.

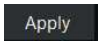
Step 2 Enter the **Name** for the new strategy and configure the **SNMP Information** (Simple Network Management Protocol).

Step 3 Set the Email Sending Frequency: Define how often alarm emails should be sent (e.g., once every few minutes).

Step 4 Configure Accessory Image Settings: User may attach snapshots or images related to the alarm notification if needed.

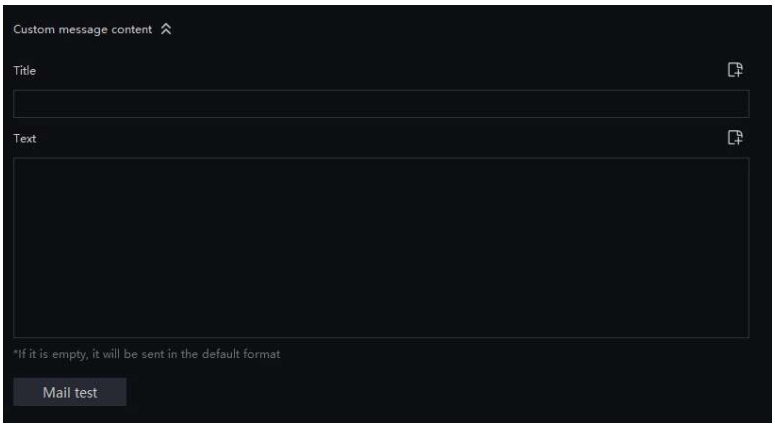
Step 5 Customize the Message Content: Input and personalize the subject and body of the alarm email as shown in Figure 7-32..

Step 6 After completing the configuration: Click the 

button to verify that the email settings are working correctly. If the test is successful, click 

to save the alarm mail configuration.

Figure 7-32 Custom message content



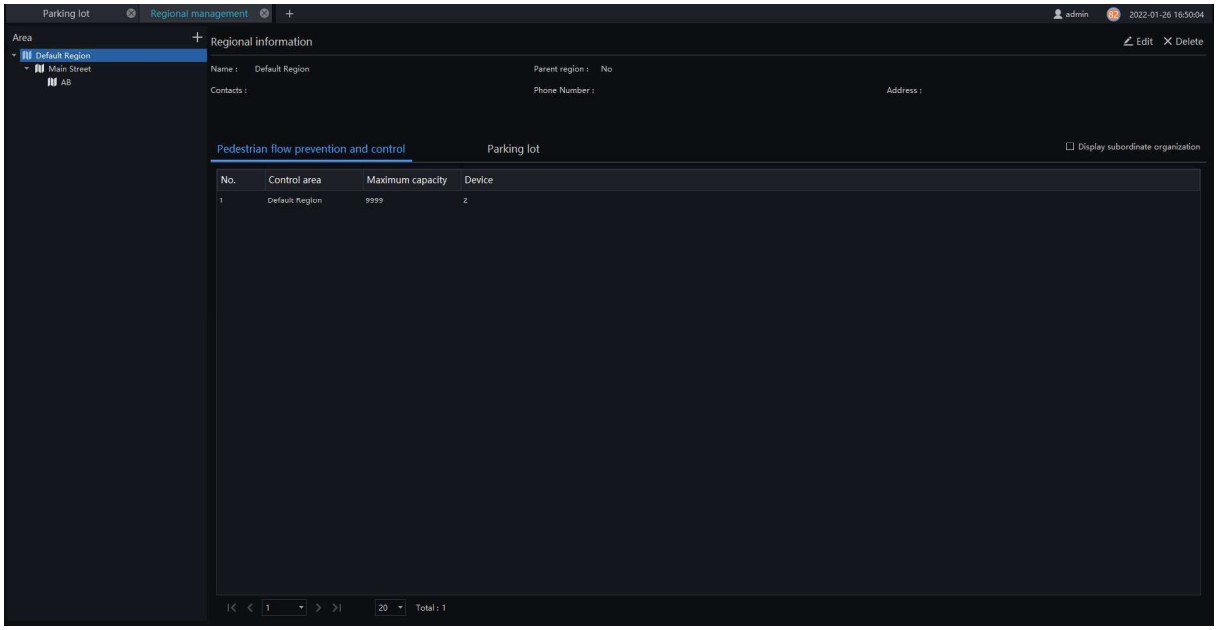
7.8 Regional Management

NOTE

This function is only supported on **Windows systems**. It is **not available for Mac systems**.

The **Regional Management** function is used to create and manage monitoring areas. These areas can be applied across multiple modules, such as **pedestrian flow control**, **parking lot**, and **traffic area configuration** as shown in Figure 7-33.

Figure 7-33 Regional management



Add Area:

1. Click the + icon in the Regional Management interface.

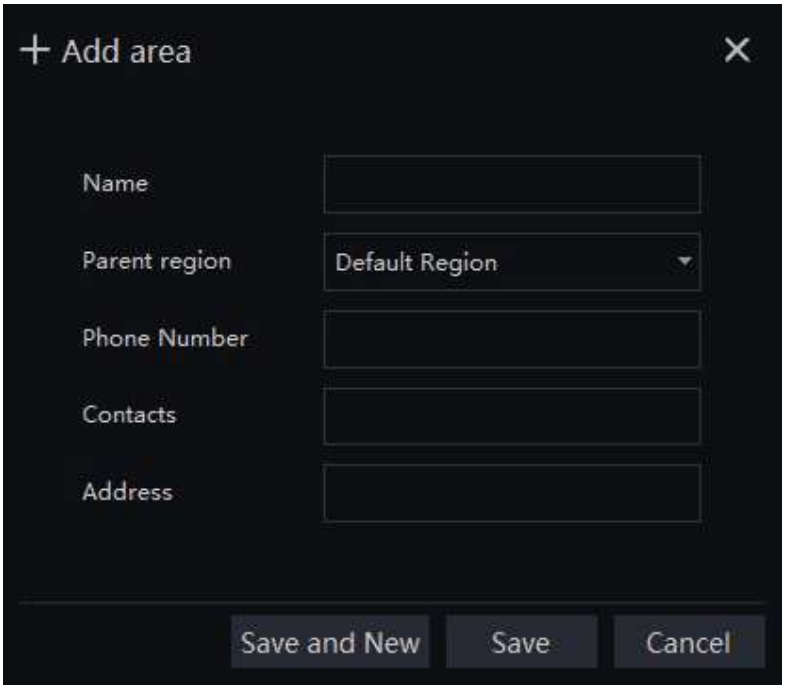
2. Enter the following information:

- **Area Name**

- **Parent Region** (if applicable)
- **Phone Number**
- **Contact Person**
- **Address**

3. Click **Save** to store the new area.
To add multiple areas in a row, click **Save and New** after completing each one, as shown in Figure 7-34.

Figure 7-34 Add area



View and Operate Regional Information

- Click 

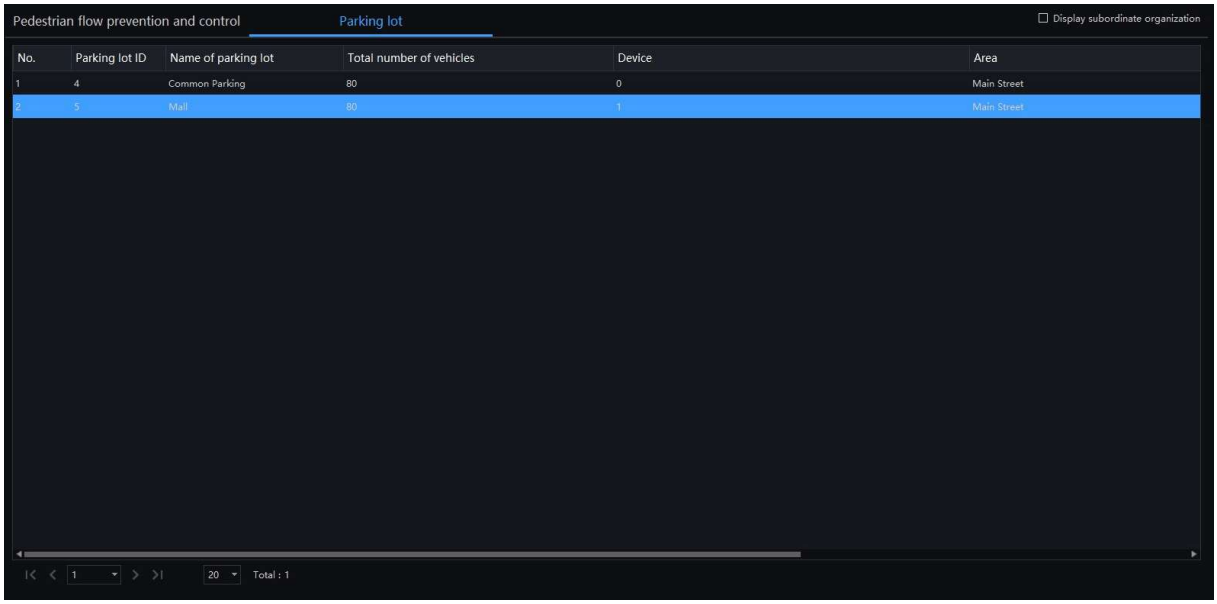
icon to manage existing regional entries.

Parking Lot Interface View

In the **Parking Lot** view under Regional Management, user may access detailed information including:

- Parking Lot ID
- Parking Lot Name
- Total Number of Vehicles
- Linked Devices
- Area Association
- Display Subordinate Organizations, as shown in Figure 7-35.

Figure 7-35 Parking lot



NOTE

Application Notes

The regional settings configured here are shared by both the Parking Lot and Traffic Area Configuration modules.

To modify area details used by those modules, changes must be made from the Regional Management interface.

NOTE

This function is only supported on **Windows systems** and **not available on Mac systems**.

The face recognition can transfer the parameter of AI NVR, such as face library, thermal temperature measurement, face search, and so on.
Face recognition supports algorithm calculation using CPU, which can be configured on the server management interface.

8.1 Face Recognition

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

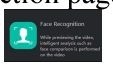
On the main menu page, click  to enter the detailed page, as shown in Figure 8-1.

Figure 8-1 Face recognition

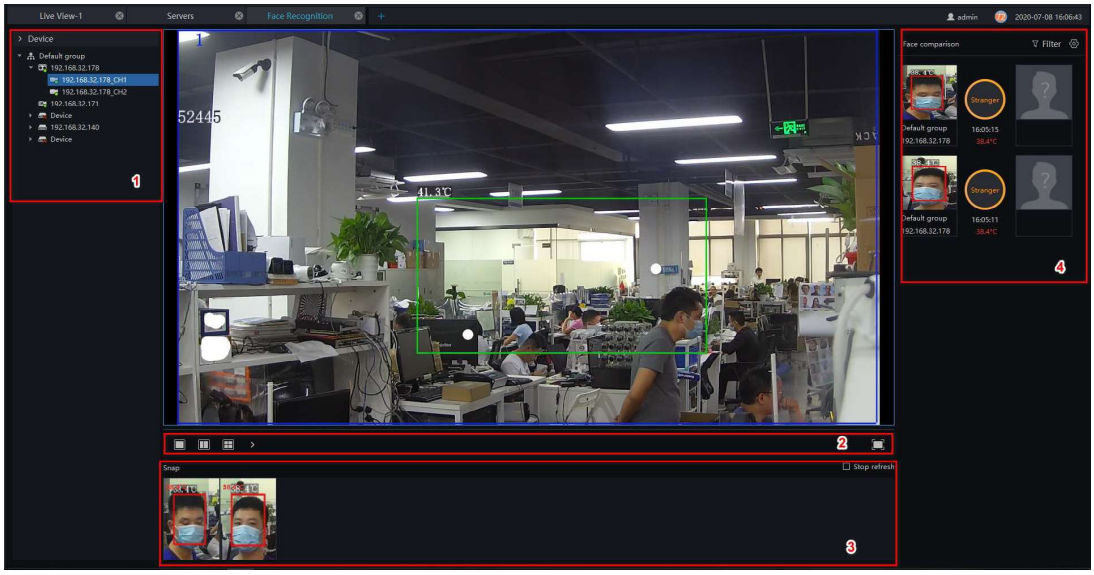
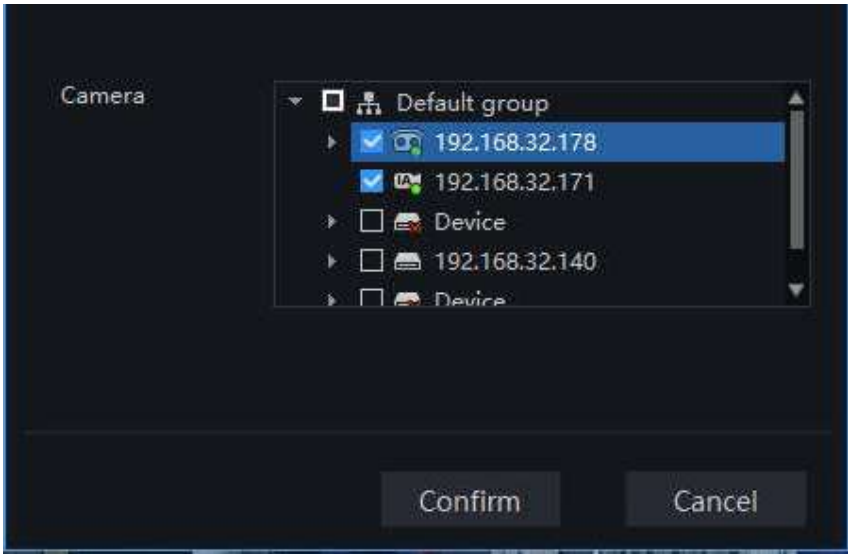


Table 8-1 Face recognition

No.	Function	Description
1	Devices list	Displays all devices that support face recognition.
2	Layout	Allows you to choose the video display layout.
3	Alarm snapshot	Shows alarm snapshots for events such as over-temperature face captures. User may pause automatic refresh.

No.	Function	Description
4	Face comparison	Displays comparison results of snapshot faces with the face library. User may filter by device to quickly find corresponding channels. **Note:** By default, only 4 real-time face recognition channels are shown. User may configure which are broadcast-enabled. If a person's validity period has expired, their snapshot will show as "Invalid."

Figure 8-2 Filter device



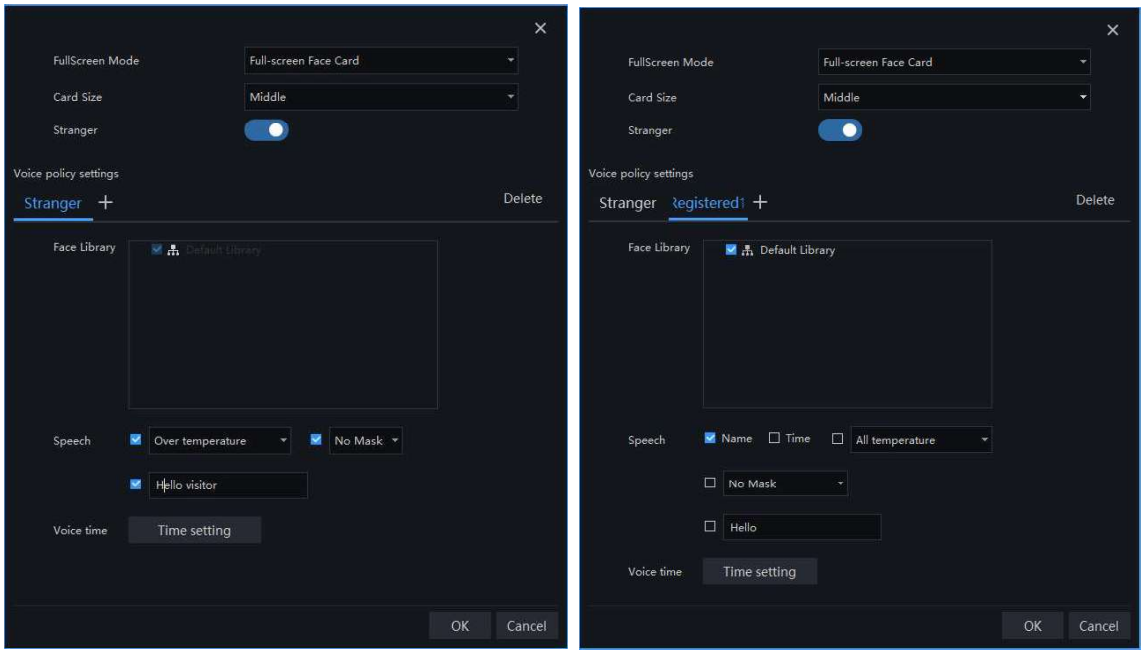
Step 1 Devices that support face capture will automatically display faces in the **Face Comparison** area.

Step 2 Click the search icon at the bottom right of a snapshot to jump to the smart search interface.

Step 3 Faces from the library that match the snapshot (above the set similarity threshold) will appear with detailed.

Step 4 Click "+" **icon** on a snapshot to directly add that face to the library.

Figure 8-3 Voice announcement setting



Voice Announcement Settings

Procedure:

Step 1 Select full screen display mode: Choose between Card Mode (requires card size setting) or List Card Mode.

Step 2 Enable Stranger Detection: If disabled, stranger snapshots will not appear in the comparison area.

Step 3 Configure Voice Broadcast Content for Strangers: Limited to 10 characters.

Step 4 Registered Personnel (already in the face library): Enable announcements for their name, snapshot time, and custom text.

Step 5 Set Voice Broadcast Time

Step 6 Enable Click the **"+" icon** to add a stranger snapshot to the face database directly.

8.2 Face Library Manage

At the **Face Library Manage** interface, user may create a multilevel directory structure for face libraries.

User may add different libraries, edit personnel information, and manage faces for recognition.

When a face is detected by a camera, it can be compared with the face library to identify the captured person.

On the main menu page, click the 

icon to enter the configuration page, as shown in Figure 8-4

Note:

This function is only supported by cameras with face detection capability.

Figure 8-4 Face library management

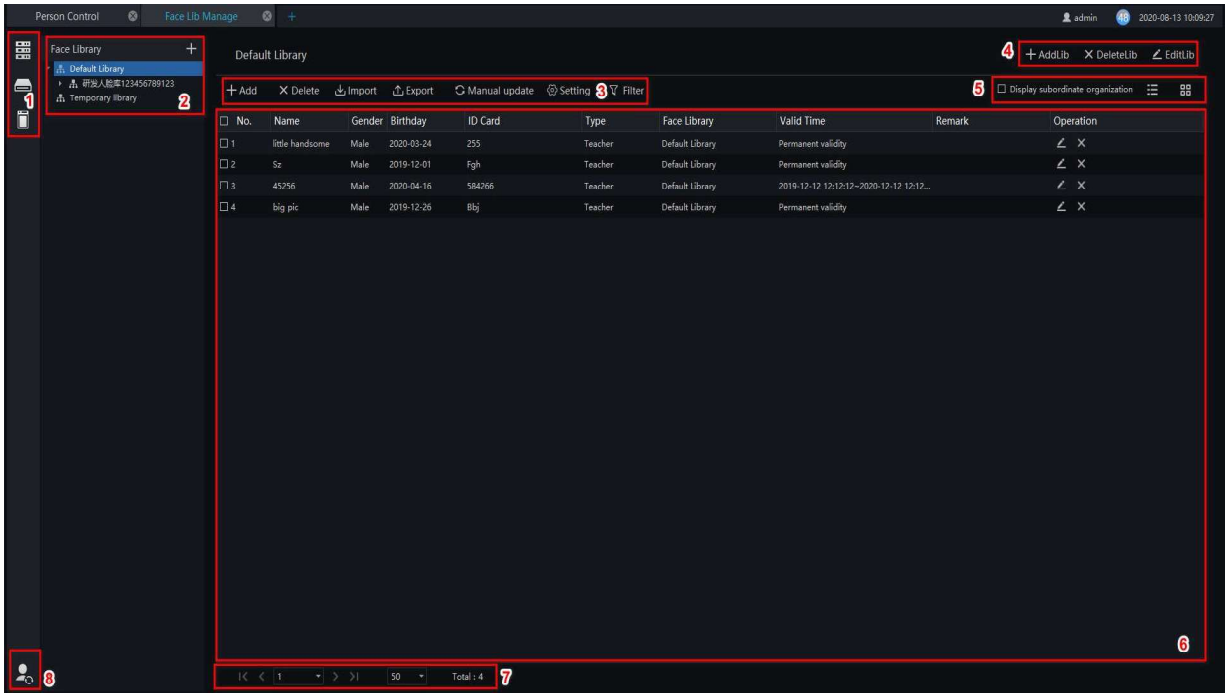
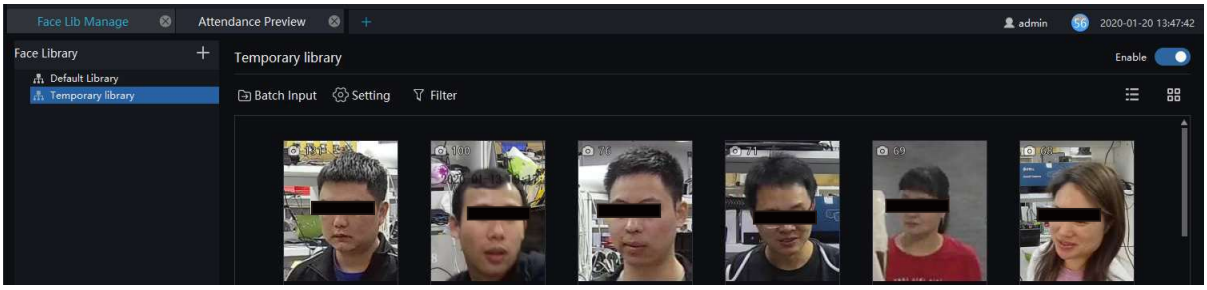


Table 8-2 Face library

No.	Function	Description
1	Face libraries of platform, Intelligent NVR, face recognition panel	Switch between the platform face library, Intelligent NVR, and face recognition panel libraries.
2	Face Library list	Display the list of face libraries. User may add a new library or select the default group.
3	Basic operation of person	Add, delete, import, export, manually update, and filter personnel information.
4	Basic operation of library	Add, delete, and edit face libraries.
5	Arrangement	Choose whether to display subordinate organizations. Switch between list mode and card mode.
6	Display information	Display basic information of face libraries.
7	Page information	Manage page navigation and adjust the number of entries displayed per page.
8	Face database sync strategy	Synchronize platform face libraries to face recognition terminals.

Figure 8-5 Temporary library



There are two modes to import face libraries, device import (face recognition temperature panel) and local import.

Temporary Library

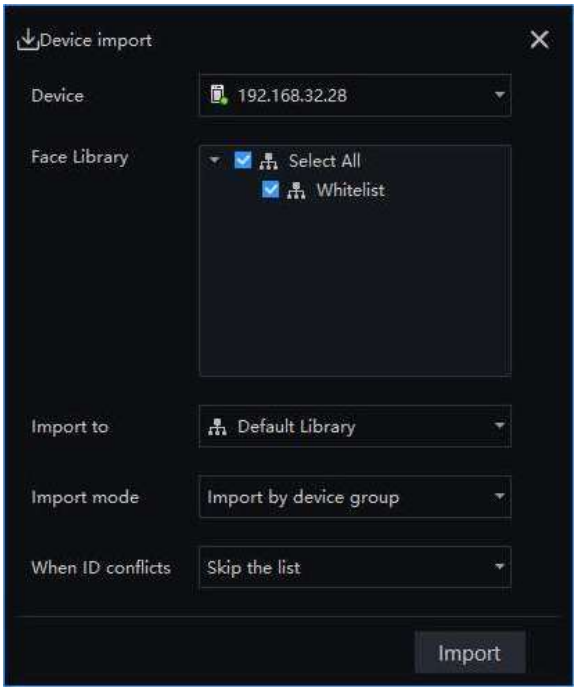
The **Temporary Library** displays all captured face snapshots along with their capture counts.

There are two ways to import face libraries:

Device Import

Procedure:

Figure 8-6 Device import



Step 1 Select the **face recognition temperature panel**.
Step 2 Choose and tick the face libraries you want to import.
Step 3 Select the library to import into and choose the import mode.
Step 4 Set the **ID Conflict Strategy**.
Step 5 Click **Import** - The import results will be saved to a local folder.

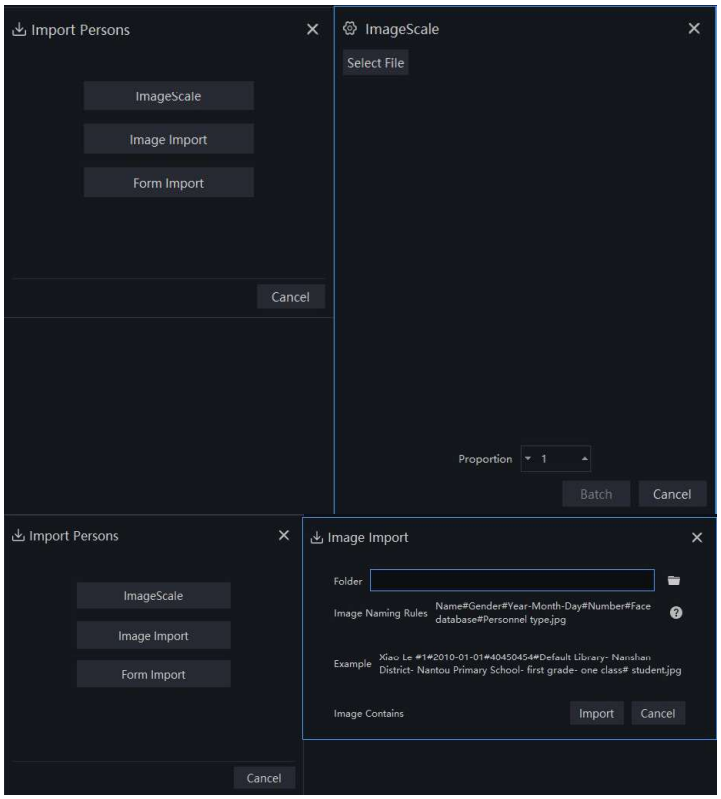
Local import:

User may also import human face images directly from a local folder or file.

Three modes are available:

- **Image Scale Import**
- **Image Import**
- **Form Import**

Figure 8-7 Local import

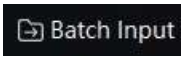


Other Temporary Library Features:

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

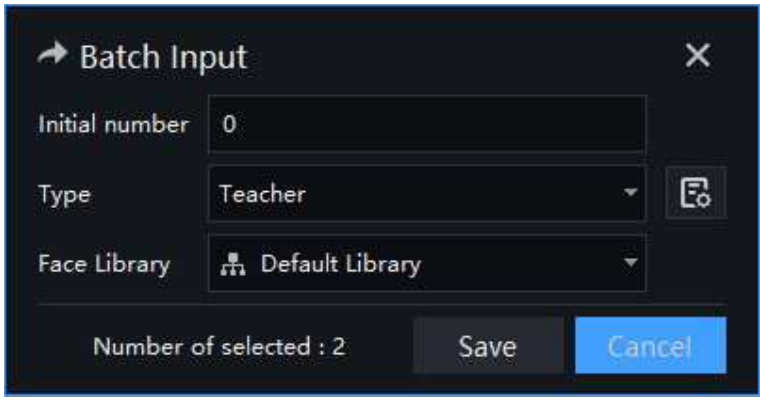
Click  on a snapshot image to add a stranger directly to a face library.

Click  the search icon to enter the Face Search interface.

In the Temporary library interface, click 

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

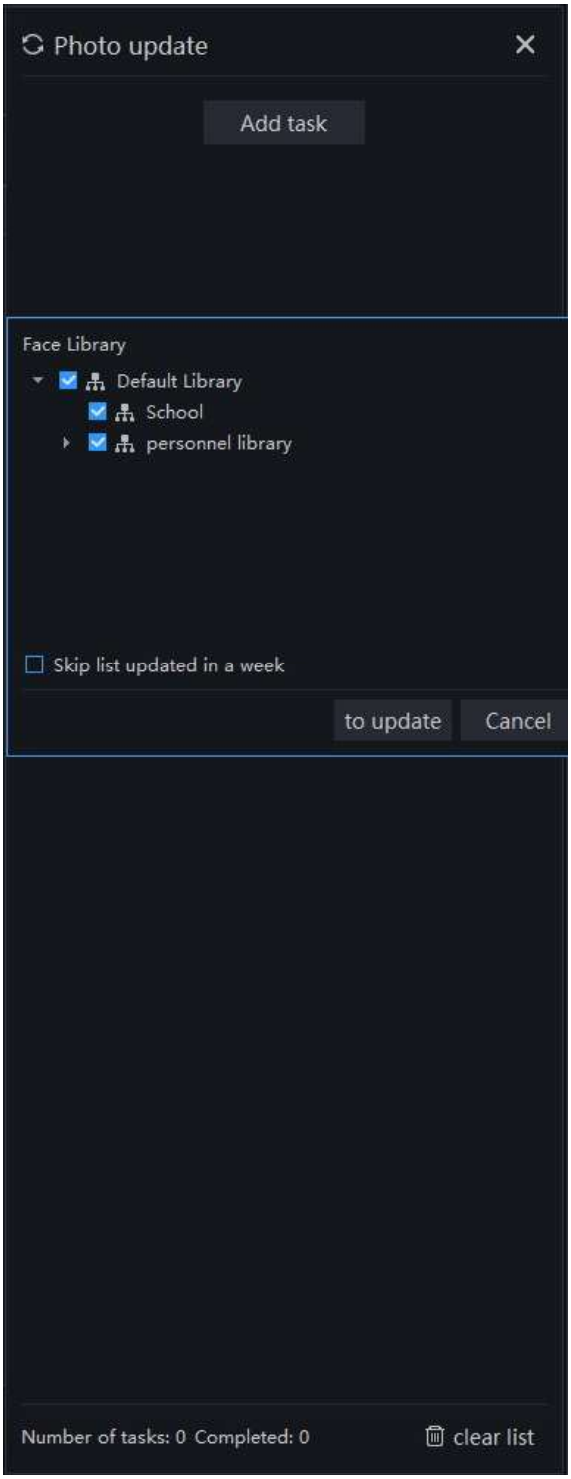
Figure 8-8 Batch input



User may manually update face data:

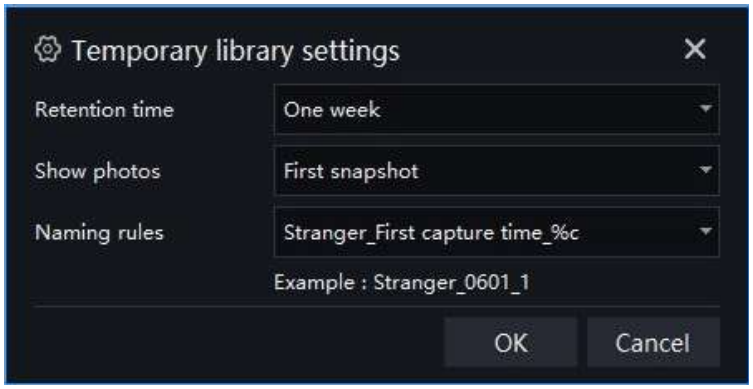
- Click Manual update to open the update interface, as shown in Figure 8-9.
- Click **Add Task**, choose the face library, and optionally tick "Skip list update in week."
- The update results will be displayed in a pop-up window.

Figure 8-9 Manual update



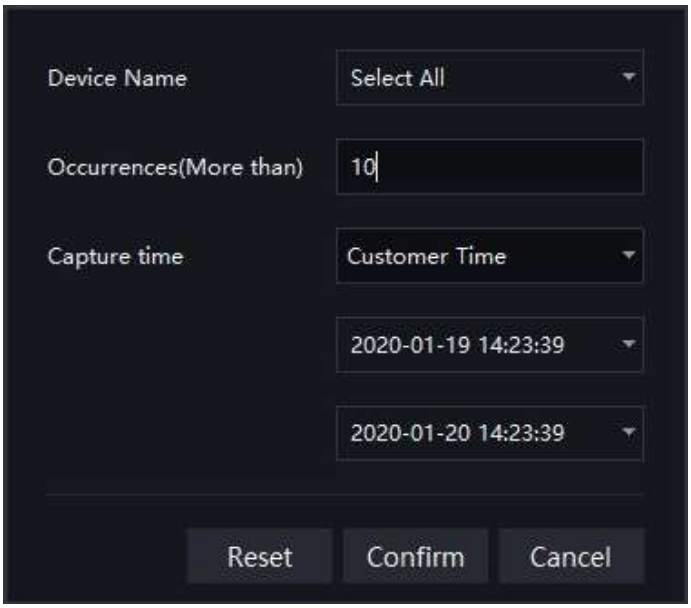
Click Setting **Temporary Library Settings** if needed, as shown in Figure 8-10.

Figure 8-10 Temporary library setting



Click Filter Settings to filter snapshots based on conditions, as shown in Figure 8-11.

Figure 8-11 Filter



The temporary library is live update.

8.2.1 Add Face Library

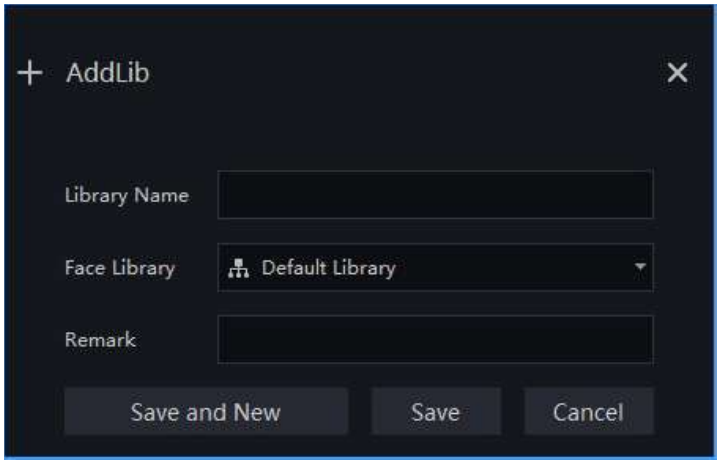
Procedure:

Step 1 Click + open the Add Face Library page, as shown in Figure 8-12.
Step 2 .
Step 3 Input Enter the required information:

- **Library Name**
- **Remarks** (optional)
- **Select Library Category**

Step 4 Click **Save** to store the library settings.
Or click **Save and New** to add another library immediately.

Figure 8-12 Add face library



8.2.1.1 Add Personnel Information

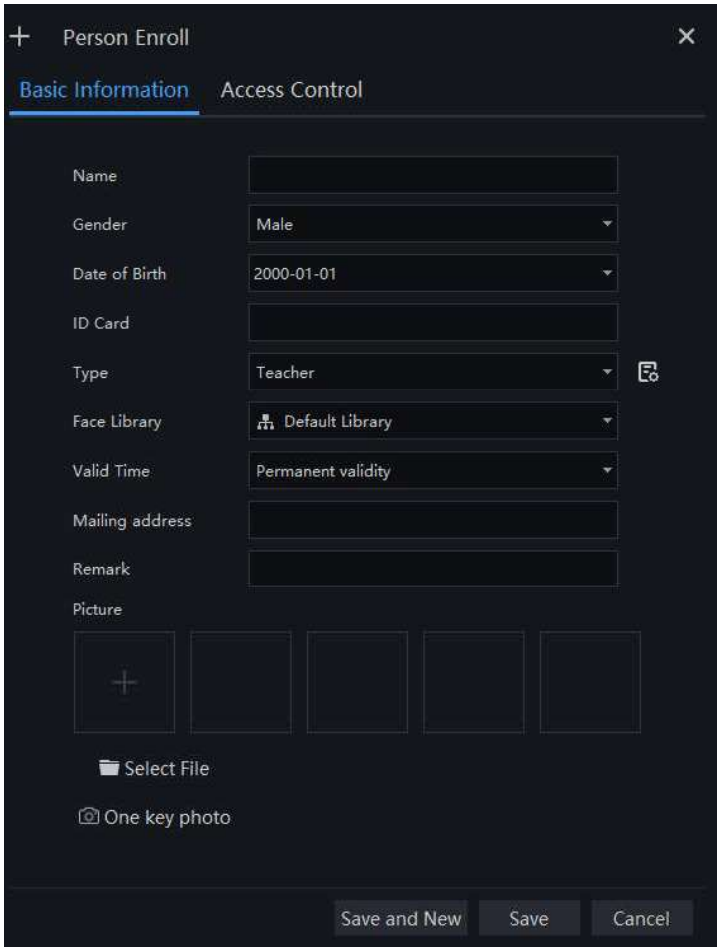
Procedure:

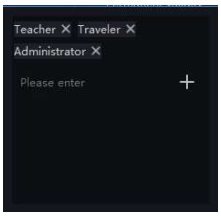
Step 1 Select the desired face library

Step 2 Click Add to add new personnel information

Step 3 Input the information as shown in Figure 8-13, user can also set the authority of access control if the device with access control is connected to platform, as shown in Figure 8-14.

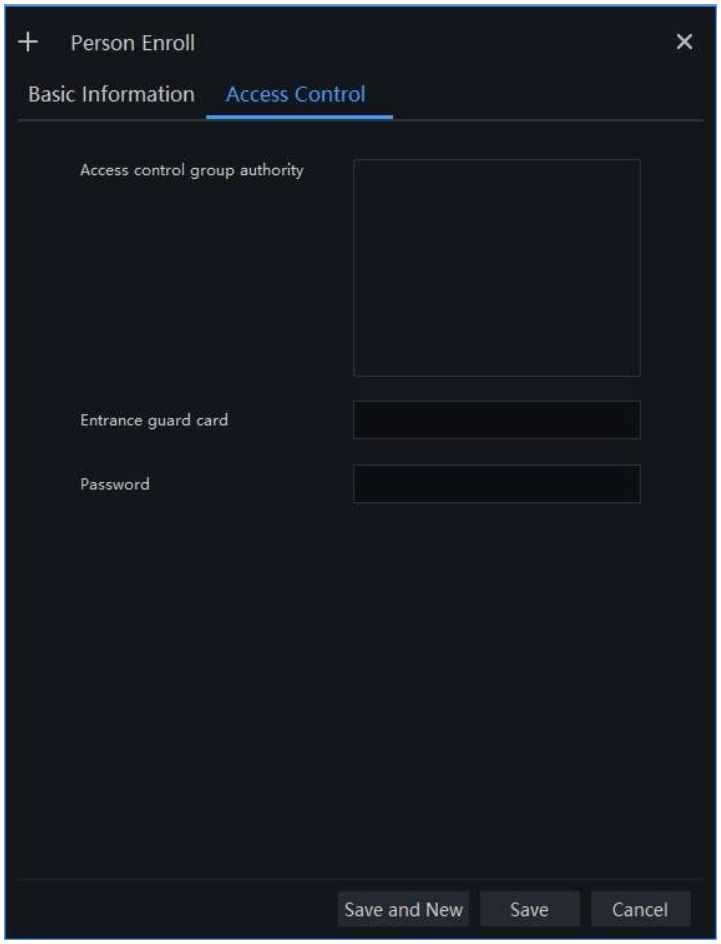
Figure 8-13 Person enroll basic information



Click  to add or delete types, 

input the name to add type.

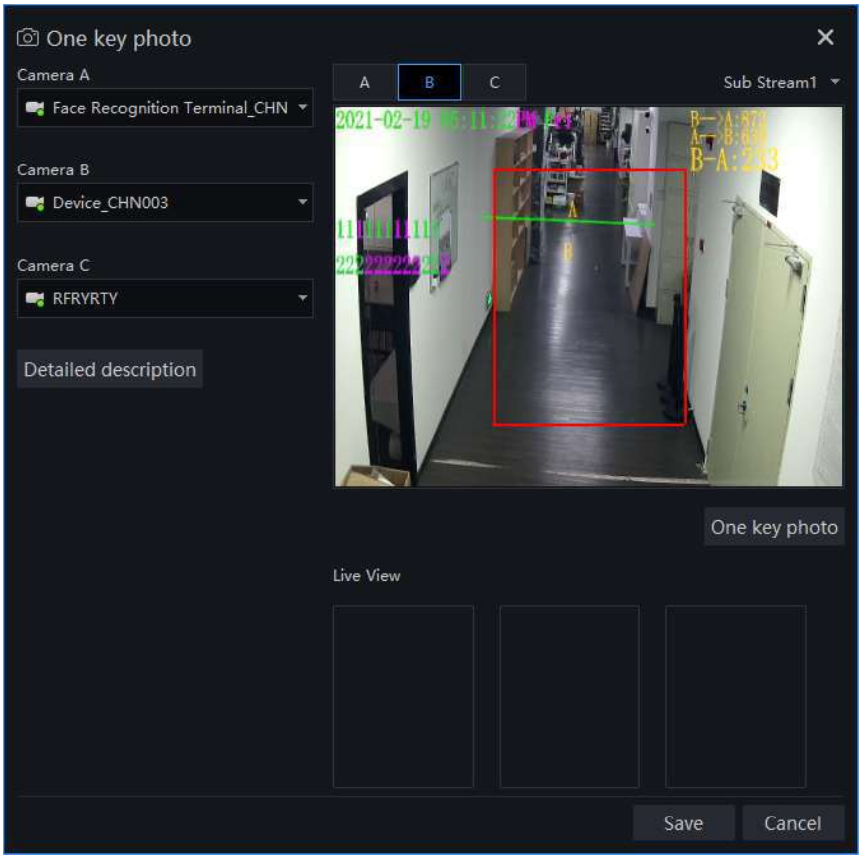
Figure 8-14 Access control



Step 4 Support for each person can have multiple face images to improve recognition accuracy. Click the Delete icon on any image to remove it.

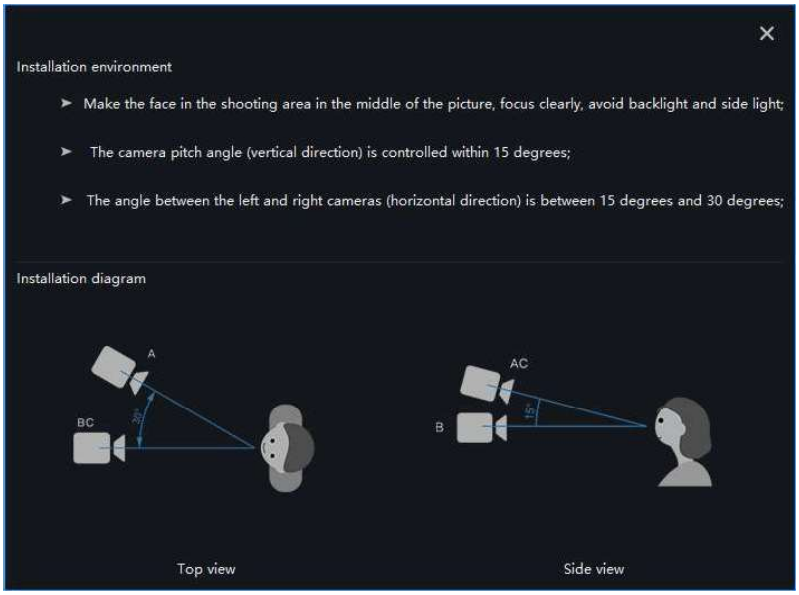
Step 5 Use the **One-Key Photo** function to instantly capture a face image from a connected camera, as shown in Figure 8-15.

Figure 8-15 One key photo



Step 6 Camera capture – best practice: User may select up to three cameras to capture photos from different angles for a single person, improving recognition precision. If supported, the PC camera can also be used to directly capture face images into the database. Refer to in Figure 8-16 for the recommended installation angle.

Figure 8-16 Best installation angle



Step 7 After completing data entry and image upload, click Save. A confirmation message will appear: "Add person succeed." Tip: Use clear, well-lit face images for optimal recognition accuracy.

8.2.1.2 Batch Import

Procedure:

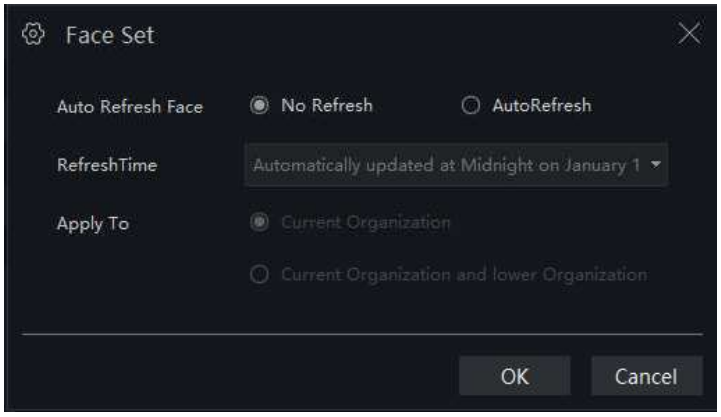
Step 1 Click **Export** to open the export interface.
Step 2 elect **Export Personnel Information**.
Step 3 Choose the **Save Path** and click **Save** to complete.

8.2.1.3 Face setting

Procedure:

Step 1 Click “Setting” to get into the face setting interface, as shown in Figure 8-17.

Figure 8-17 Face setting



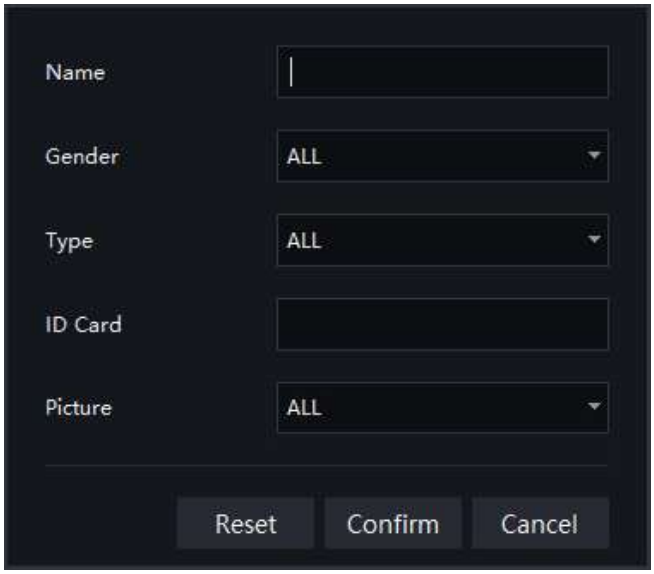
Step 2 Choose “No Refresh” or “Auto Refresh”.
Step 3 Set the refresh time and apply to.
Step 4 Click “OK” to save the settings.

8.2.1.4 Filter

Procedure:

Step 1 Click “Filter” to get into the filter interface, as shown in Figure 8-18.

Figure 8-18 Filter setting

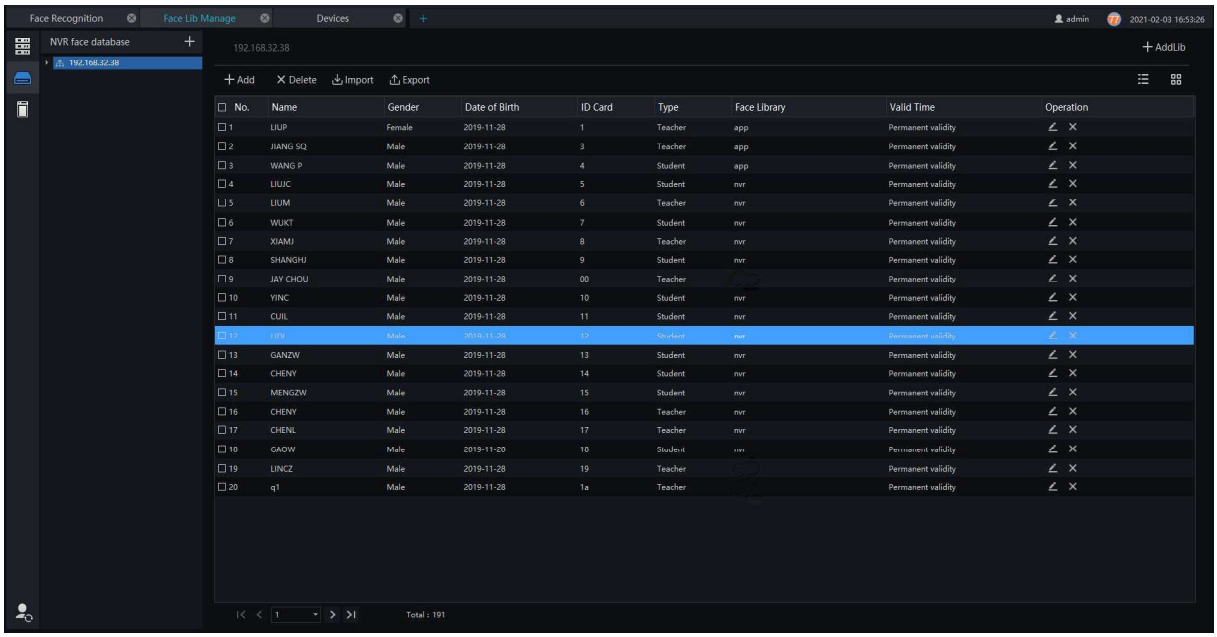


Step 2 Input the name need to filter.
Step 3 Choose the gender, type, ID card and picture.
Step 4 Click “Confirm” to save the settings.

8.2.2 NVR Face Database

At NVR face database, the platform can set the database parameters of AI NVR which is online, as shown in Figure 8-19.

Figure 8-19 NVR face database



Add persons or libraries into NVR face database, as shown in Figure 8-21.
User can delete/import/export the database at that interface.

Figure 8-20 Add library

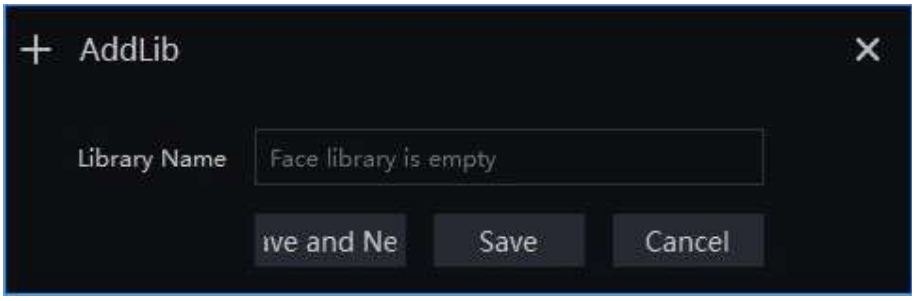
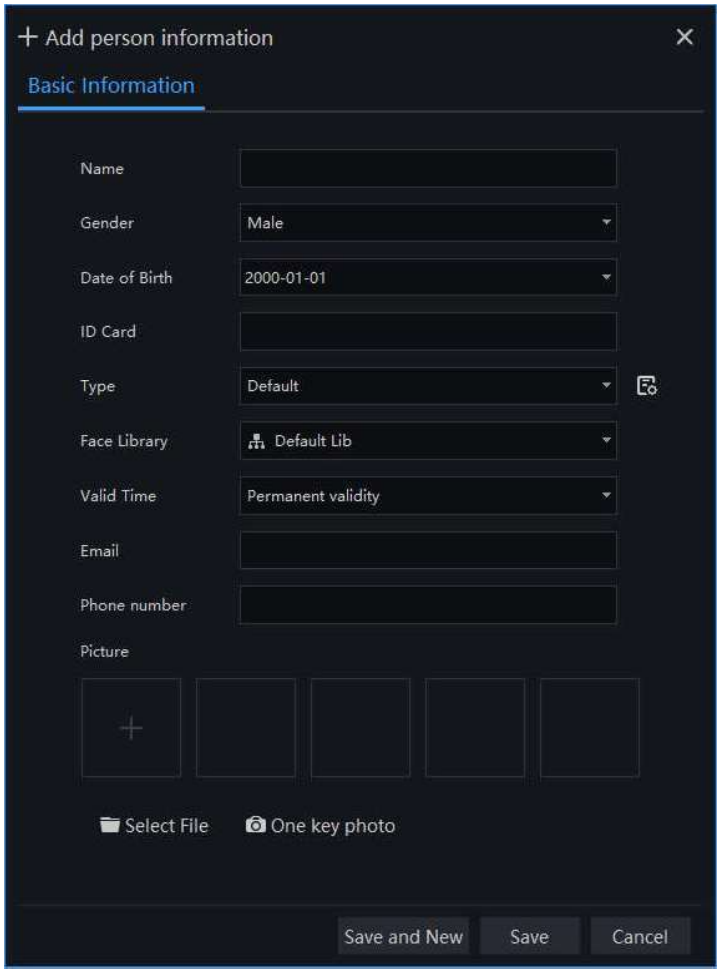
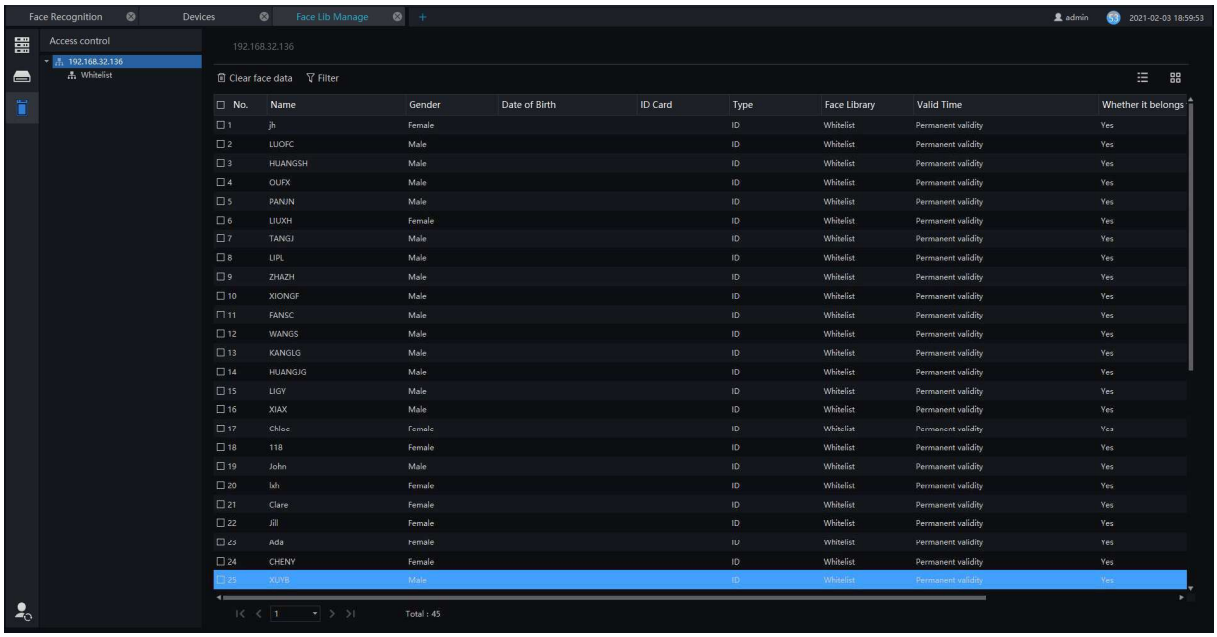


Figure 8-21 Person enrolled



8.2.3 Access Control

Figure 8-22 Access control list

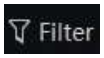


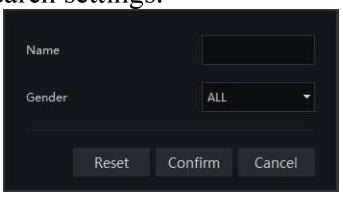
The **Access Control** feature allows the platform to manage whitelist synchronization and person filtering for access control devices such as face recognition terminals, as shown in Figure 8-22.

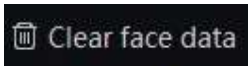
Key Functions

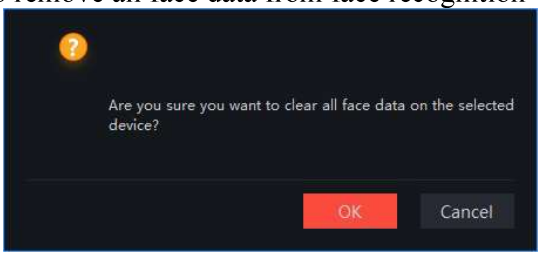
- The platform can **immediately transfer the whitelist** of authorized personnel to connected access control cameras.
- User may **filter person information** to quickly search for specific individuals in the system.
- User may **clear face data** on face recognition temperature devices directly from this interface.

Procedure

1. **Whitelist Sync**
   - When access control cameras are connected, the system will automatically transfer the whitelist to the cameras.
2. **Filter Person Information**
   - Click the 

icon to open detailed search settings.
   - Enter search criteria (such as name or ID) 

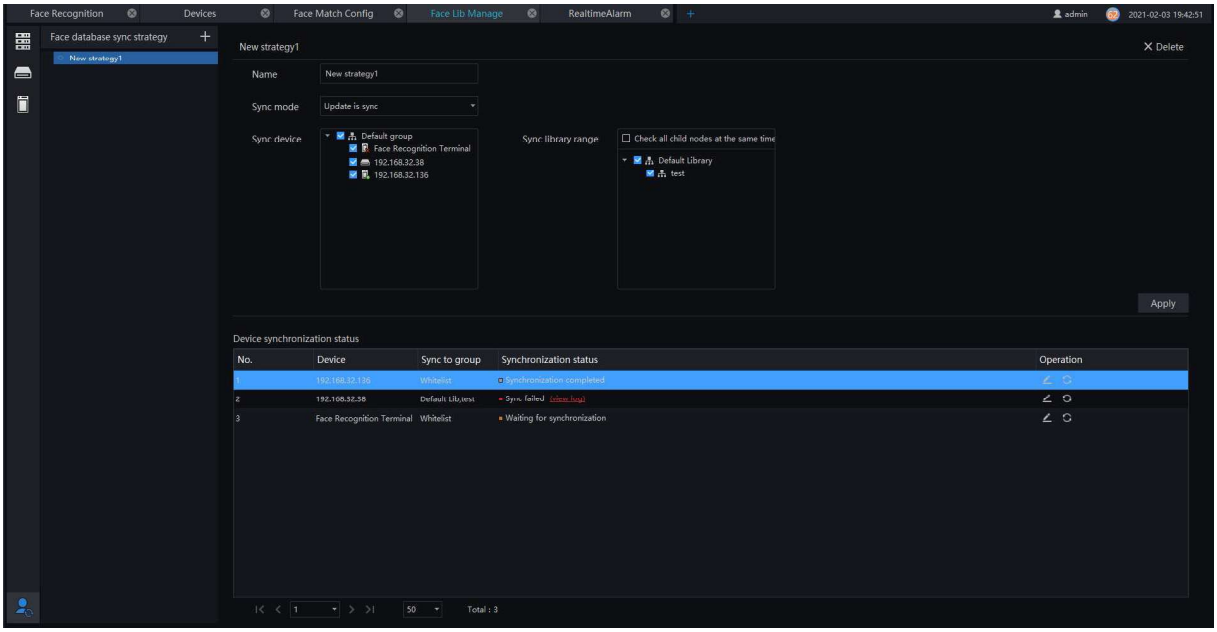
to quickly locate individuals.
3. **Clear Face Data**
   - Click the 

icon to remove all face data from face recognition temperature devices when necessary. 

8.2.4 Face Database Sync Strategy

The **Face Database Sync Strategy** function is designed for access control cameras (such as face recognition temperature cameras) and AI NVRs. It allows the platform system and cameras to **share face database information** and synchronize it with access control devices, as shown in Figure 8-23.

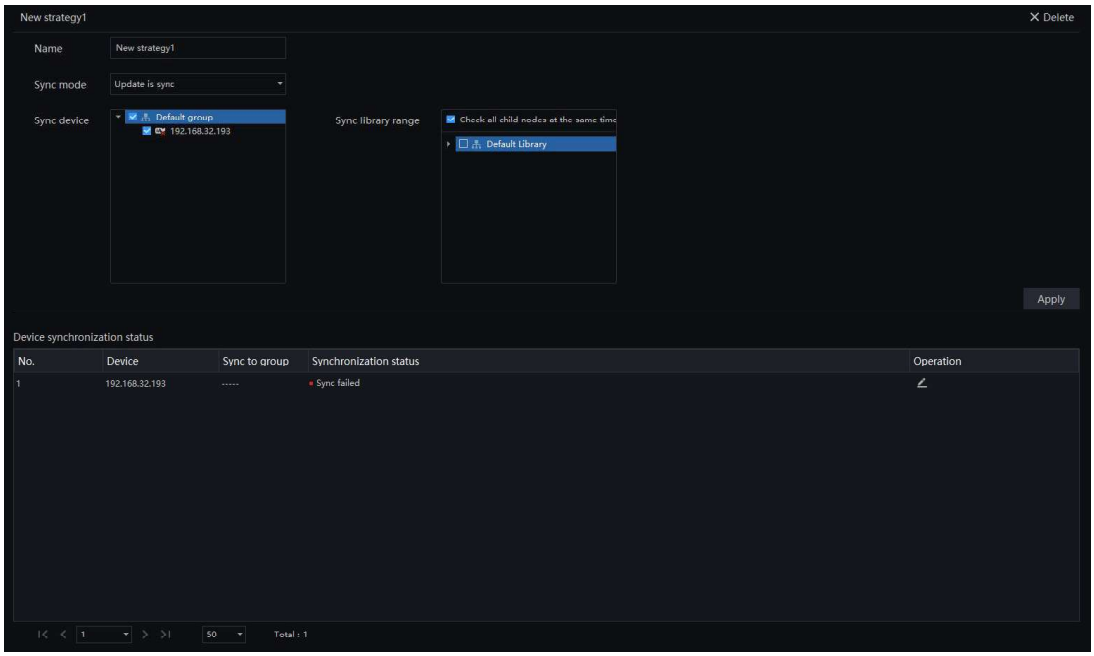
Figure 8-23 Face database sync strategy



Procedure:

Step 1 Click "+" button to create a new synchronization strategy, as shown in figure 8-24.

Figure 8-24 New strategy



Step 2 Enter the **Strategy Name.**
Step 3 Choose the **Sync Mode.**
Step 4 Tick the **Sync Device** and **Sync Library Range** options as needed.
Step 5 Click **Apply** to save the settings.

Monitoring Synchronization Status

- The **device synchronization status** will appear at the bottom of the interface.
- If synchronization fails, the system will display **"Sync Failed"**, and user may check the **log** to find the reason.
- If the system shows **"Waiting for Synchronization"**, the device may currently be offline.

8.3 Face Match Configuration

At the **Face Match Configuration** page, user may set up a comparison strategy between cameras and face libraries. This allows each camera to compare detected faces only against its assigned face library.

On the main menu page, click the 

icon to enter the interface, as shown in Figure 8-25.

NOTE

This function works only with **Face Detection cameras**.

Figure 8-25 Face Match configuration interface

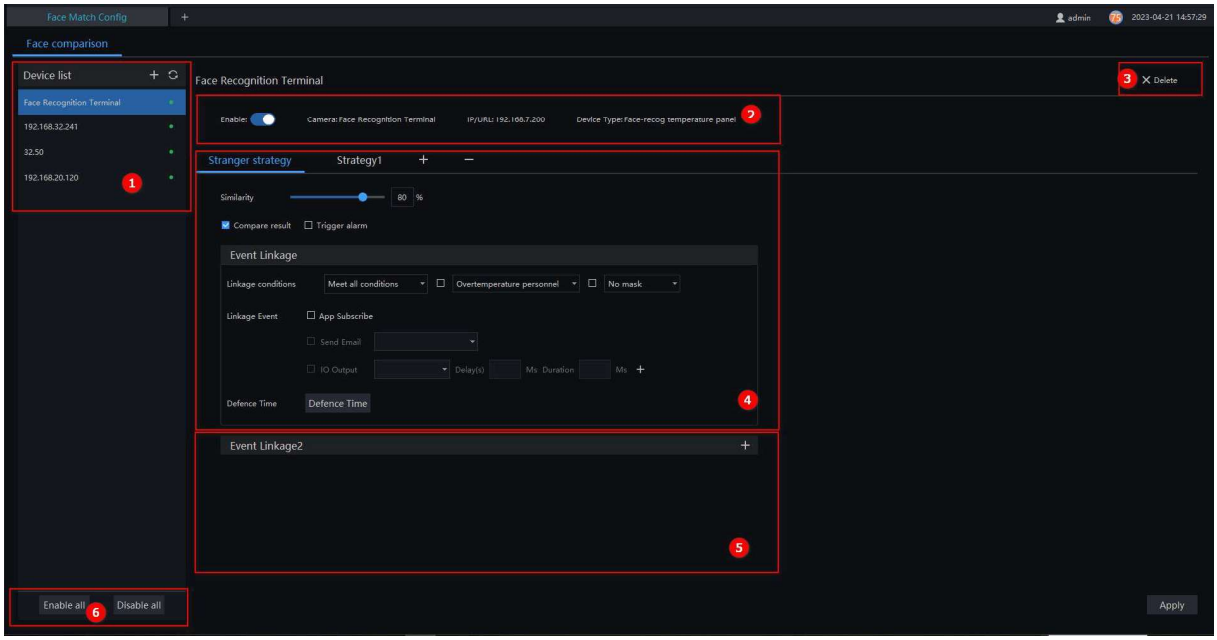


Table 8-3 Face Match configuration

No.	Function	Description
1	Devices list	Displays all devices with face detection capabilities.
2	Detail of face comparison	Shows detailed face comparison settings for the selected device.
3	Basic operation	Delete a device from the list.

No.	Function	Description
4	Strategy	Add, modify, or delete stranger strategies and other comparison strategies.
5	Event linkage	Add, Modify, or delete event linkages.
6	Enable / Disable all	Enable or disable the face detection function for all devices.

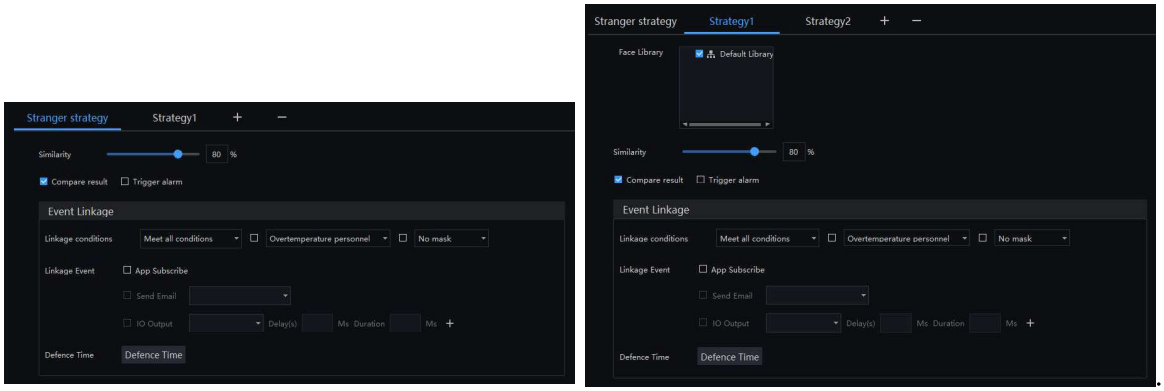
8.3.1 Face Comparison Configuration

Procedure:

Step 1 Click the **strategy configuration icon** to open the configuration page.

Step 2 Click "Add" to create a new face comparison strategy, as shown in Figure 8-26.

Figure 8-26 Add strategy



Step 3 Select the **camera** and the **face library** to be linked.

Step 4 Set the **similarity threshold** and activate **stranger mode** if required.

Step 5 Click Confirm to save. The configured devices will appear in the list and can be edited or deleted later.

Linkage Conditions (Optional)

- User may enable additional linkage conditions, such as:
  - **Over-temperature personnel**
  - **No-mask detection**

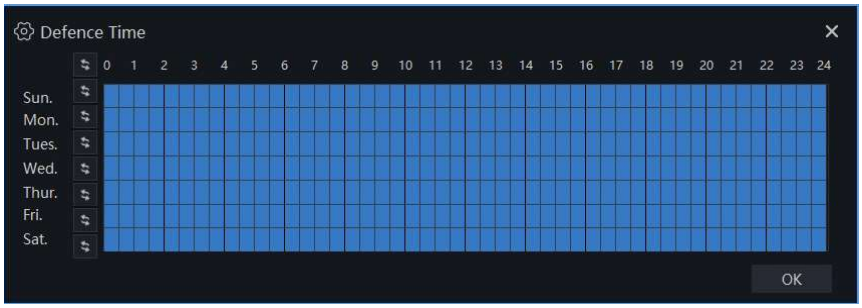
Note: These two conditions are only available for **body temperature cameras**.

Linkage Actions

When setting up an event linkage, user may select the following actions:

- **App Subscribe** (mobile notifications)
- **Send Mail** (email notifications)
- **IO Output** (choose output ID and set duration)
- **Defense Time** (set active time periods), as shown in Figure 8-27.

Figure 8-27 Defense time



8.4 Face Search

The **Face Search** page allows you to select a face image and retrieve matching face photos from the platform. User may also play back the person's movement track on the map.

NOTE

This function only supports **cameras with face recognition.**

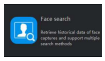
On the main menu page, click  icon to access the detailed interface.

Figure 8-28 Face search

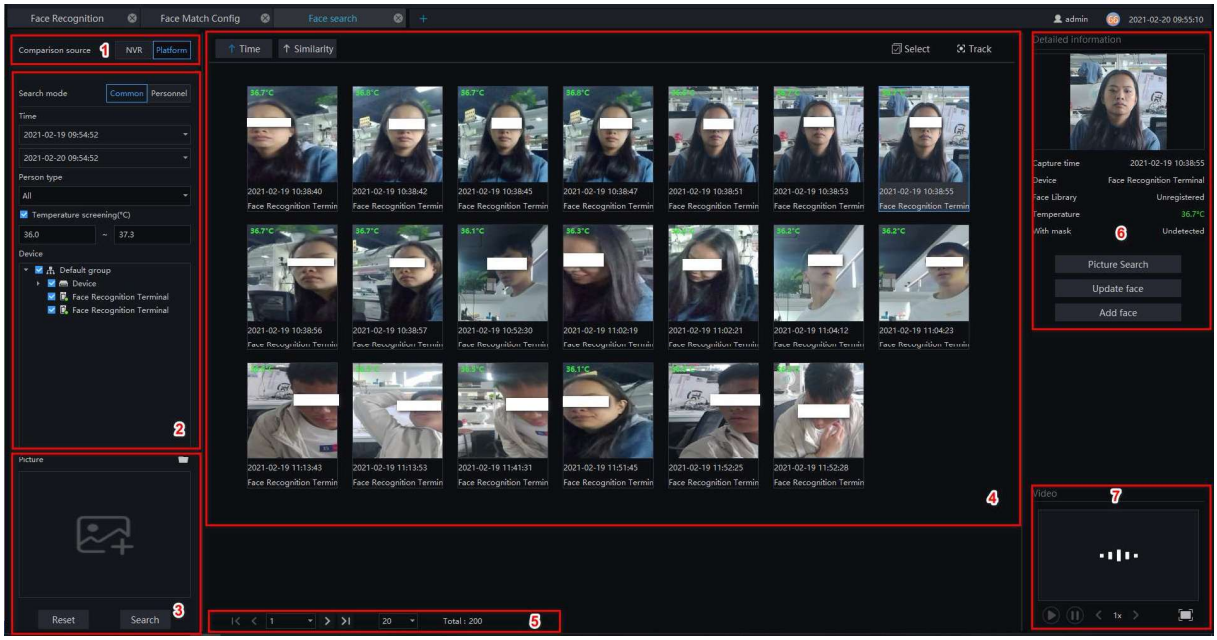


Table 8-4 Smart search

No.	Function	Description
1	Comparison source	Select the search source: Platform or AI NVR (data comes from NVR storage).
2	Set search mode	Choose search mode: Common or Personnel. Set the query's start time and select the capture camera. Tick the group to select all cameras.

No.	Function	Description
3	Set picture	Select a picture from the local folder. Set the similarity threshold. Use **Reset** to clear search items. Click **Search** to execute the search.
4	Display information	Show results by time, similarity, or behavior track.
5	Page information	Show page number, entries per page, and navigation options.
6	Details	Enter the face into the face database. Search directly using snapshots (Picture Search). Update the face image in the library, as shown in Figure 8-30. Add the searched picture to the library, as shown in Figure 8-31. Enter the face database and search for images. The pictures captured by the camera are generally stored in the snap folder by default. Click 'Export' to export the results.
7	Switch picture to search	Use snapshot records to play related video before and after capture.

Figure 8-29 Search mode

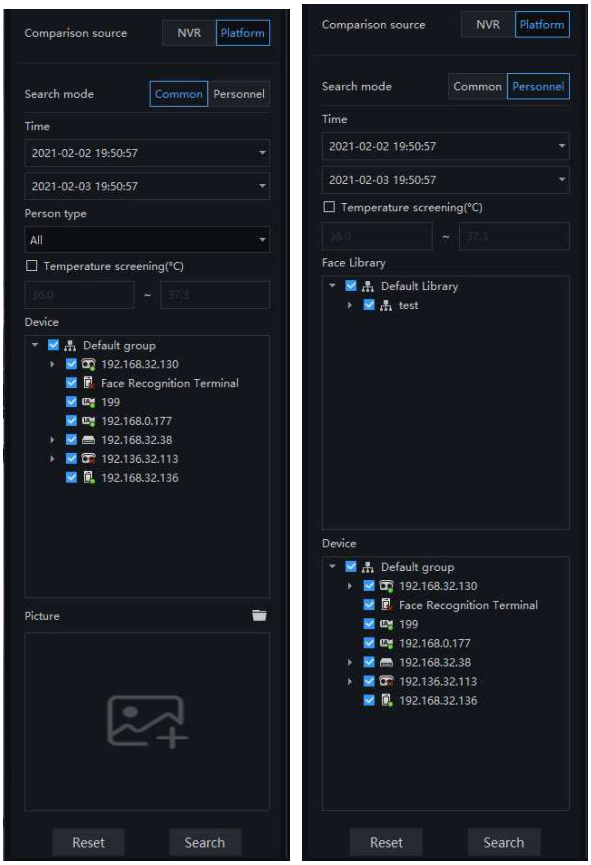


Figure 8-30 Update face picture

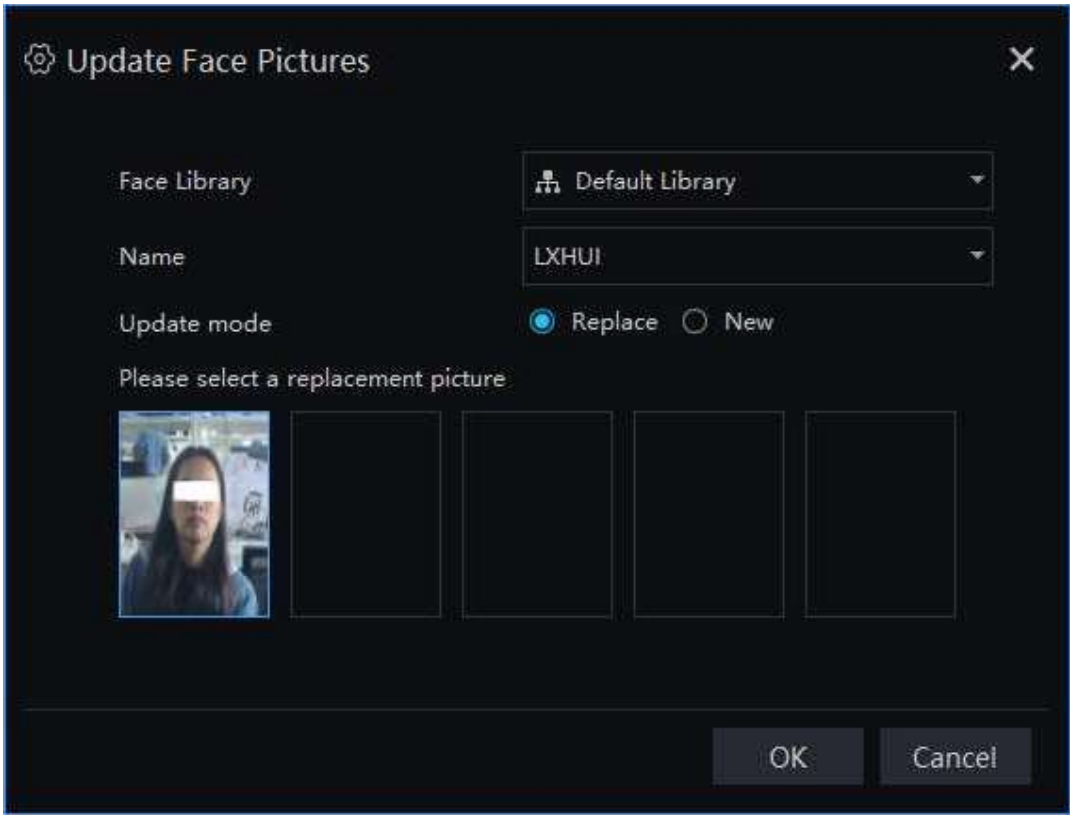
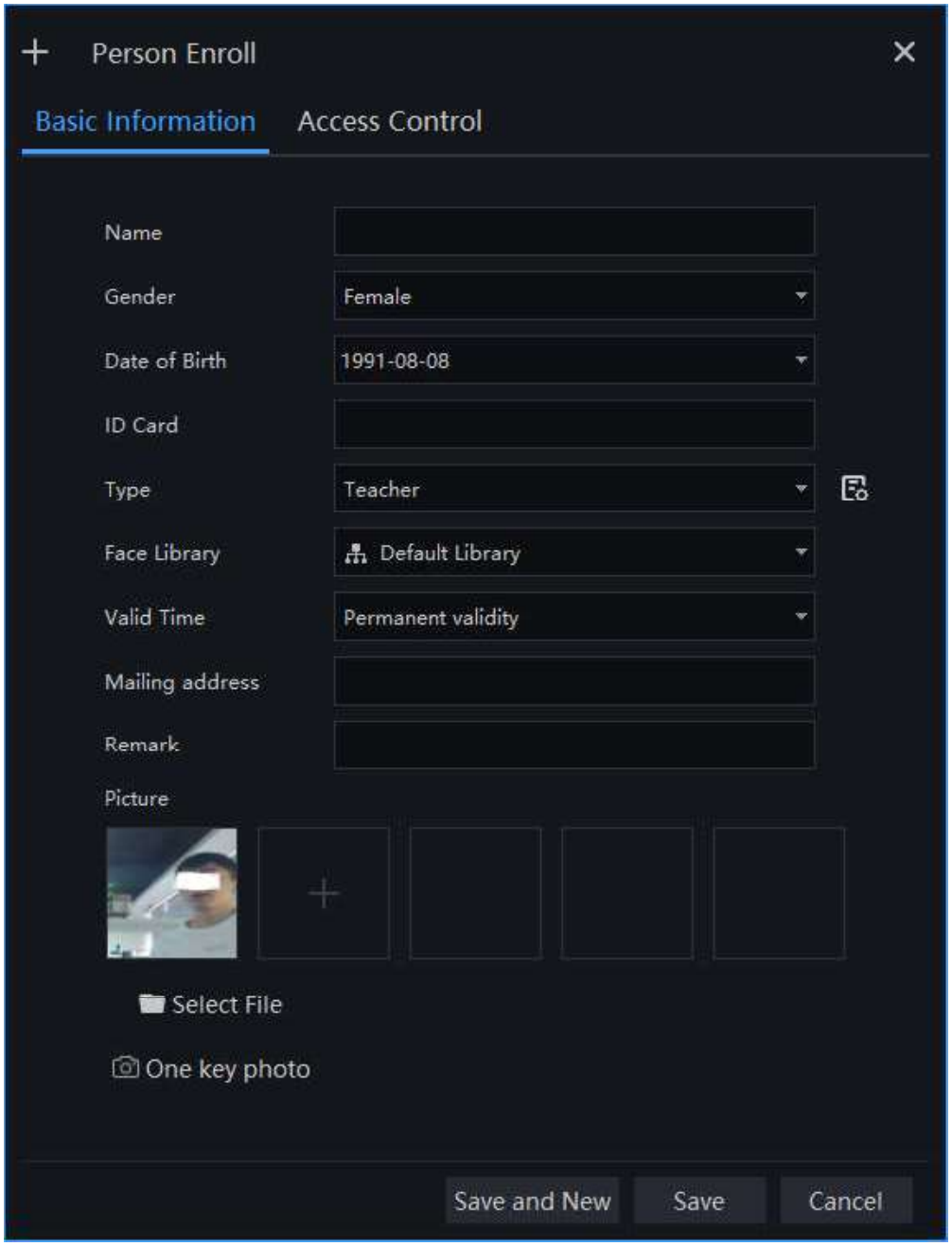


Figure 8-31 Add face

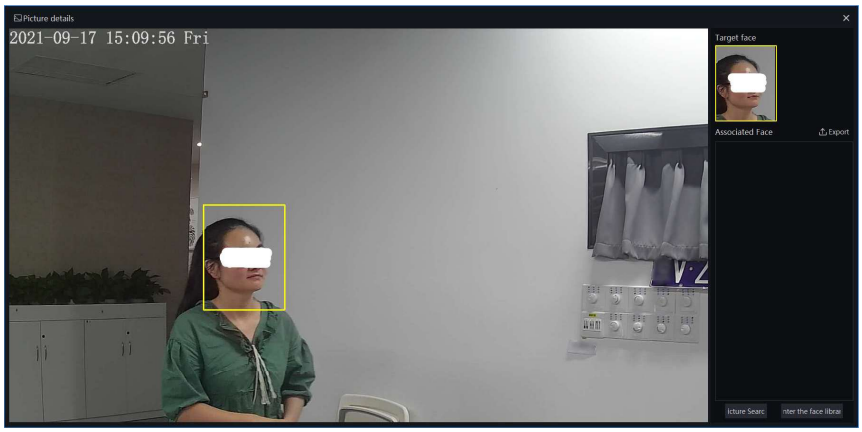


8.4.1 Image Searching

Procedure:

Step 1 Click  to select an image.
Step 2 Set the **Similarity**, search time, and capture devices.
Step 3 Click **Search**. Results will display sorted by Time and Similarity.
Step 4 Click an image in the results to view details.
Step 5 Click **Enroll** to add the searched person to the database.
Step 6 Click **Select** to pick a picture from the results
Step 7 Click the detail image to display the full snapshot panorama.
Step 8 To view all persons captured in the same scene, click the **person** icon, as shown in Figure 8-32.

Figure 8-32 Picture details



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

8.4.2 Track

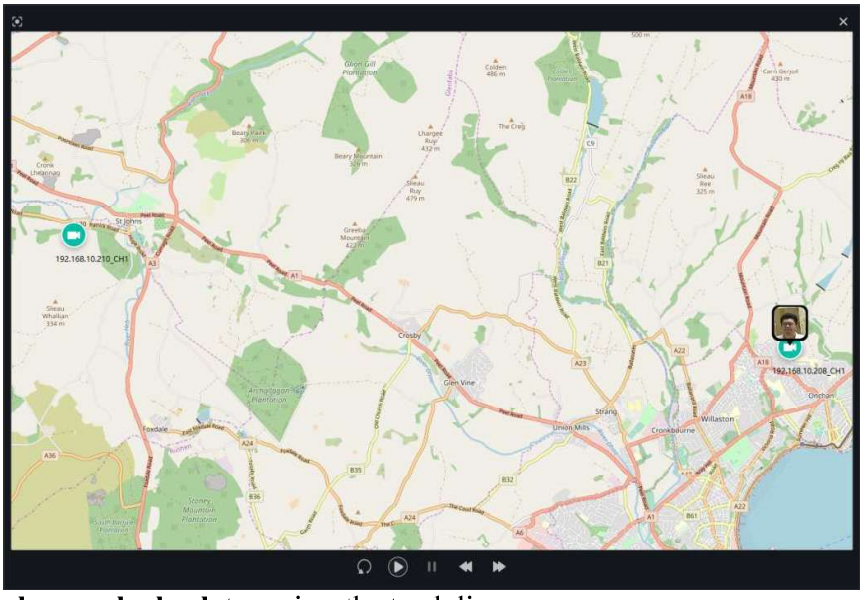
NOTE

User You need at least two face detection cameras configured on the custom e-map.

Procedure:

Step 1 Click **Select** to choose pictures.
Step 2 Tick images from different cameras.
Step 3 Click **Track**. A pop-up map will show the person's track, as shown in Figure 8-33.

Figure 8-33 Track



Step 4 Use **Replay or playback** to review the track line.

8.5 Classification Query

At The **Classification Query** page allows you to set advanced query conditions to search for captured face images.

NOTE

This function only supports **Face Detection cameras**.

On the main menu page, click the  icon to access the configuration interface, as shown in Figure 8-34.

Figure 8-34 Classification query

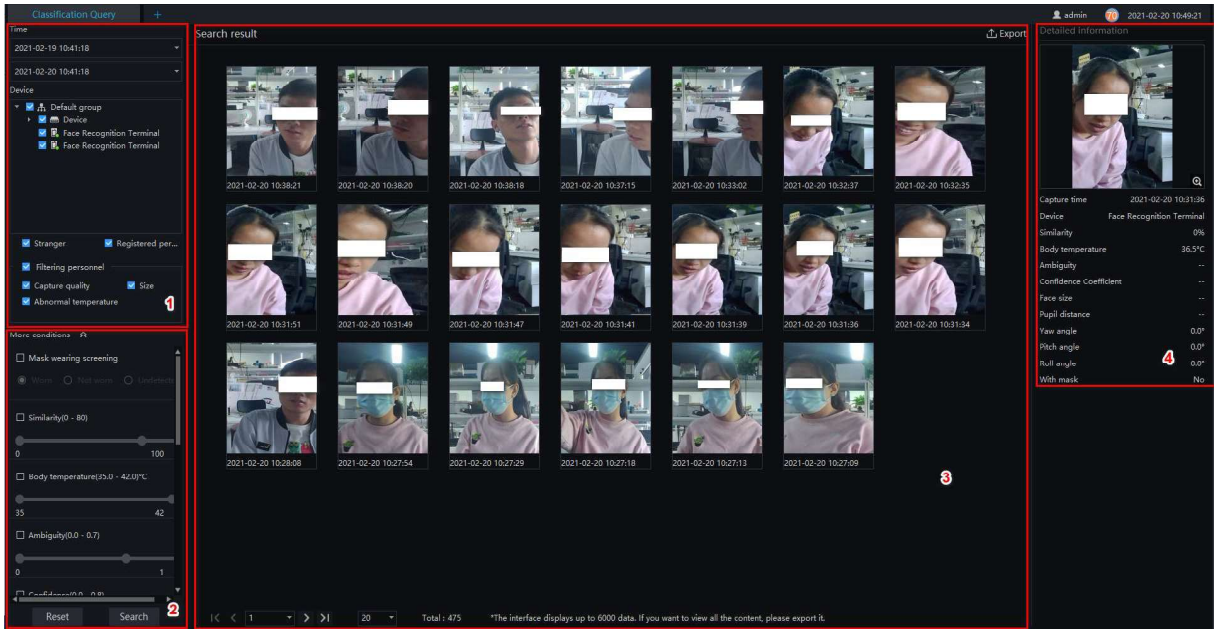


Table 8-5 Classification query

No.	Function	Description
1	Basic conditions of querying	Set start time, end time, select devices and face library modes, and filter by personnel attributes (capture quality, face size, abnormal temperatures).
2	More conditions	Configure advanced filters such as similarity, quality score, confidence, face size range, pupil distance, yaw angle, pitch angle, and roll angle.
3	Display result	Shows the search results from the classification query.
4	Detailed information	Displays detailed information for each queried result.

Procedure:

Step 1 Set the **query start time** and **end time**.
Step 2 Select the device(s) to include in the query. By default, all devices are selected.
Step 3 Set the **classification query conditions** for precise filtering.
Step 4 Click **Query** and the result of the query is now displayed.
Step 5 To clear the query conditions, click **Reset**.

Figure 8-35 More conditions

NOTE

This function is only applicable to Windows system, not for Mac system.

9.1 License Plate Management

The **License Plate Manage** page allows you to create and manage license plate libraries. These libraries help identify matching vehicles and manage vehicle entry and exit records. Different levels of license plate libraries can be established as needed.

NOTE

This function only works with cameras that support **license plate recognition**.

On the main menu page, click the 

icon to open the detailed interface.

Figure 9-1 License plate manage interface

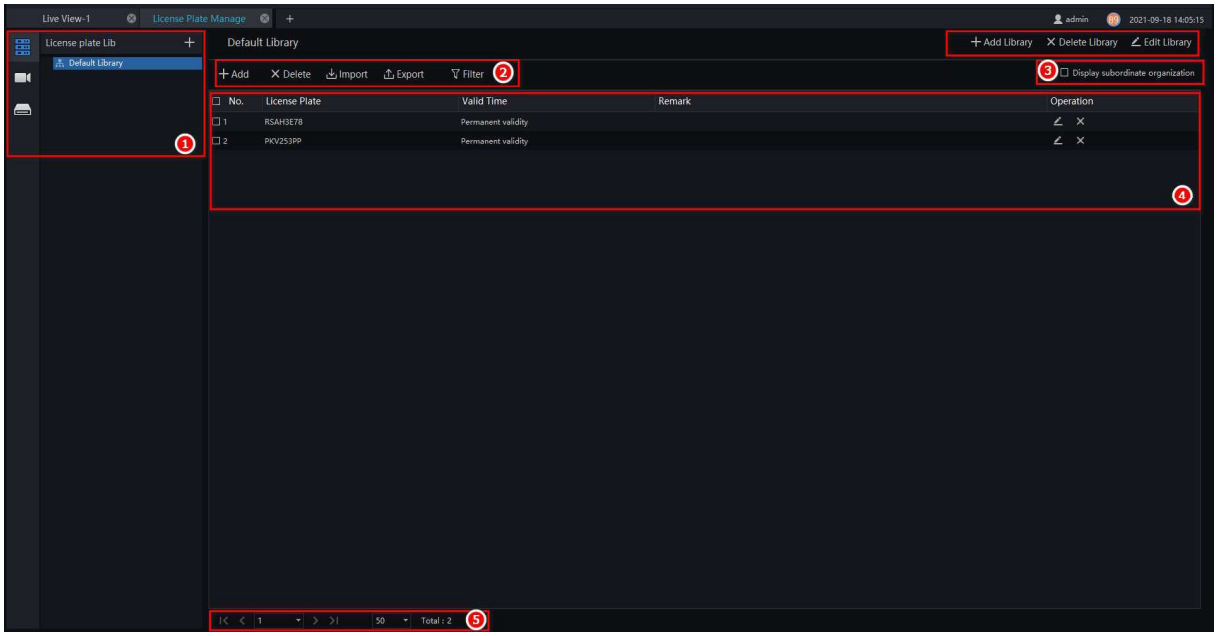
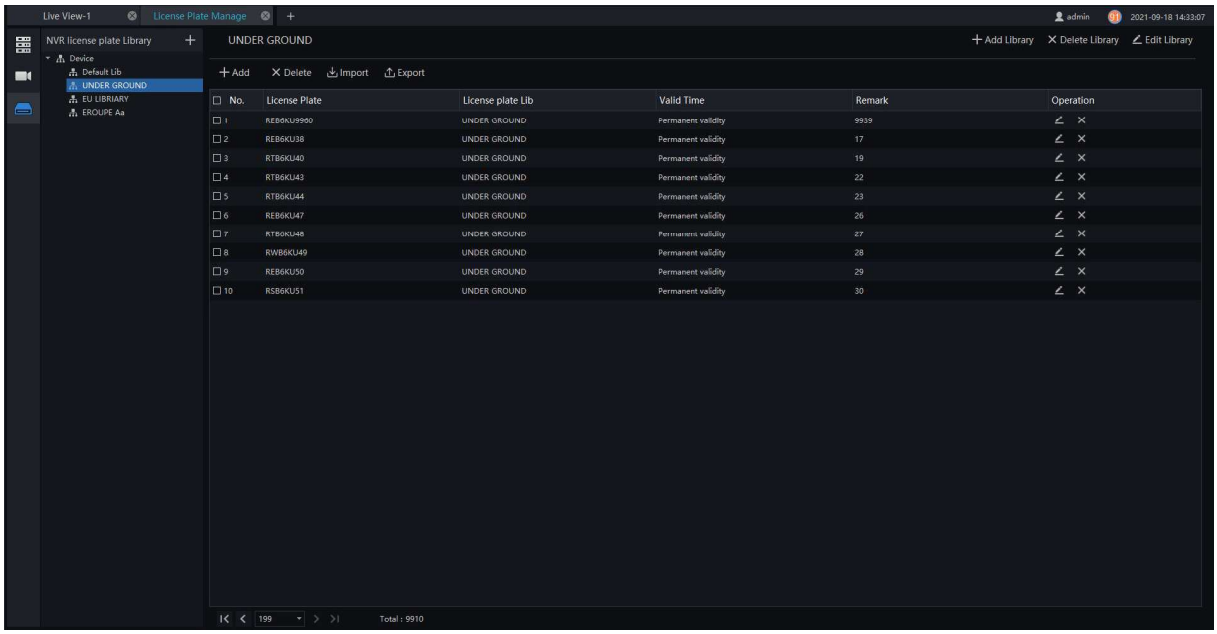


Table 9-1 License plate management

No.	Function	Description
1	License plate library	Select the platform, IPC (license plate cameras), or NVR (smart NVR) to add a license plate library. Click **Add** to create a new library.
2	Operation of license	Perform basic operations on license plates.
3	Operation of library	Perform basic operations on license plate libraries.

No.	Function	Description
4	Display subordinate organization	View license plate data including subordinate organizations.
5	Display information	Show basic information for the selected license plate library.
6	Page information	View current page, page count, and navigate between pages.

Figure 9-2 NVR license plate library



9.1.1 Add license Plate Library

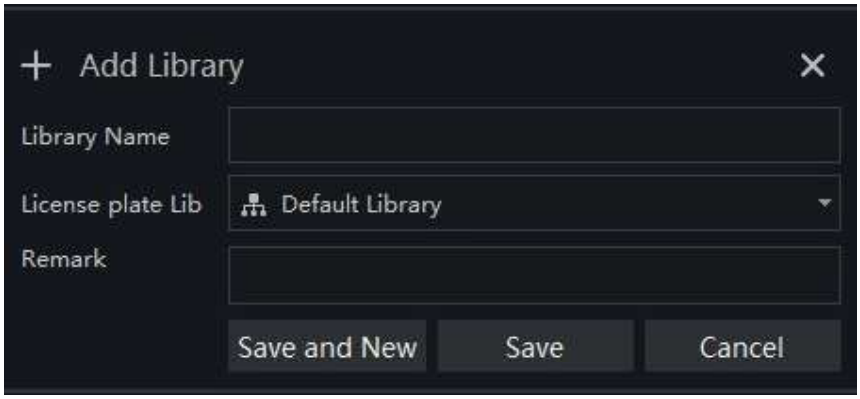
Procedure:

Step 1 In the **Archives Library** interface, select **License plate Library.**

Step 2 Click the + button.

Step 3 Enter the **Library Name**, add an optional **Remark**, and select the **Library Location**, as shown in Figure 9-3.

Figure 9-3 Add license plate library



Step 4 Click **Save** to store the new library.

9.1.2 Add License Plate Information

Procedure:

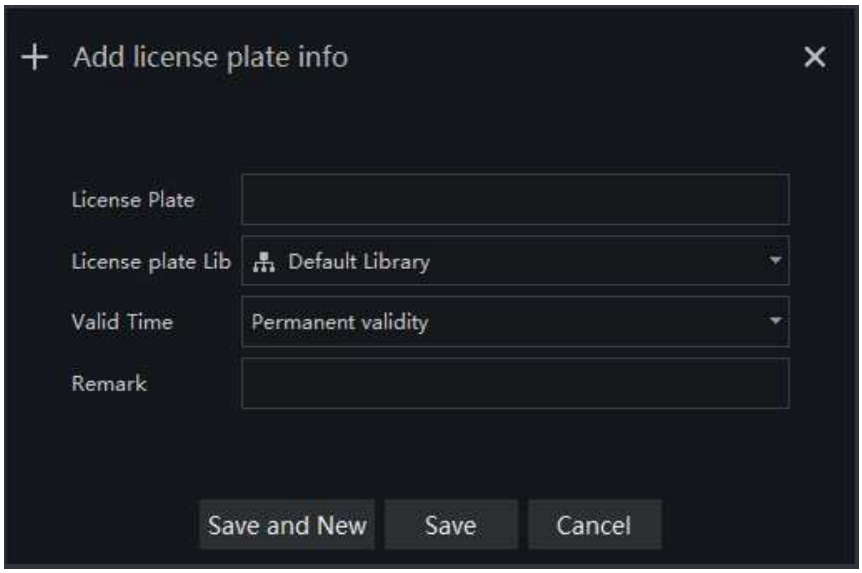
Step 1 Select the desired **License Plate Library.**

Step 2 Click 

plate button.

Step 3 Enter the required license plate details as shown in Figure 9-4.

Figure 9-4 Add license plate



Step 4 Choose the license plate image from the local client.

Step 5 Click **Save.** A confirmation message will appear: **"Add license plate succeed".**

Other Operations

- **Import, Export, Delete License Plate Library:**
  These operations follow the same process as in **Face Library Manage**. Please refer to **Section 8.2** for details.

9.2 License Match Config

The **License Match Config** function is used to configure the license plate comparison strategy, linking cameras and license plate libraries.

This ensures that recognized vehicle plates are matched against the correct library.

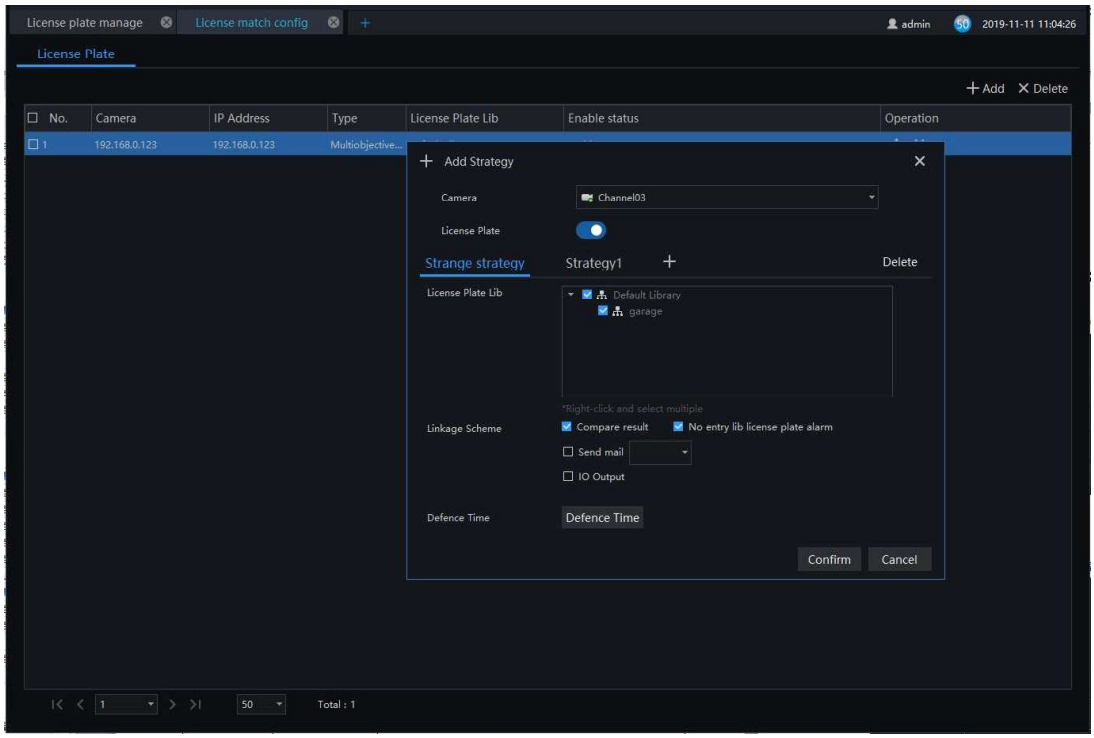
NOTE

This function only supports **cameras with license plate recognition capability**.

On the main menu page, click the 

icon to open the detailed configuration interface.

Figure 9-5 License plate configuration

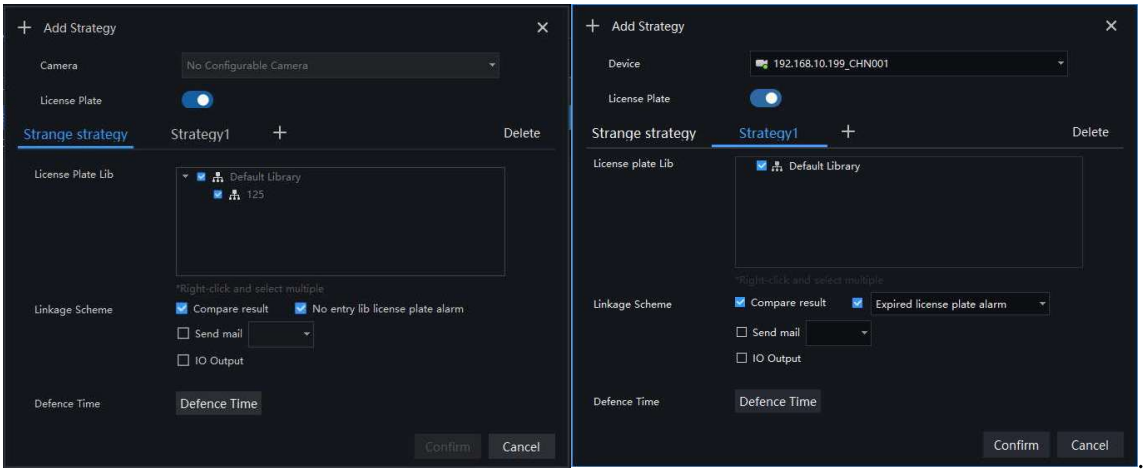


Procedure:

Step 1 At the **Strategy Configuration** interface, select **License Plate**.

Step 2 Click the **Add** button to create a new strategy, as shown in Figure 9-6.

Figure 9-6 Add strategy



Step 3 Select the **camera** you want to configure.

Step 4 Select the **license plate library** to associate with the camera.

Step 5 Set the **similarity** – this determines how closely the detected plate must match the library entry.

Step 6 Activate **Stranger Mode** if you want the system to flag plates not found in the library.

Step 7 Click **Confirm** to save the configuration.

9.3 License Plate Recognition

The **License Plate Recognition** page allows you to view live vehicle snapshots and compare them against the configured license plate library.

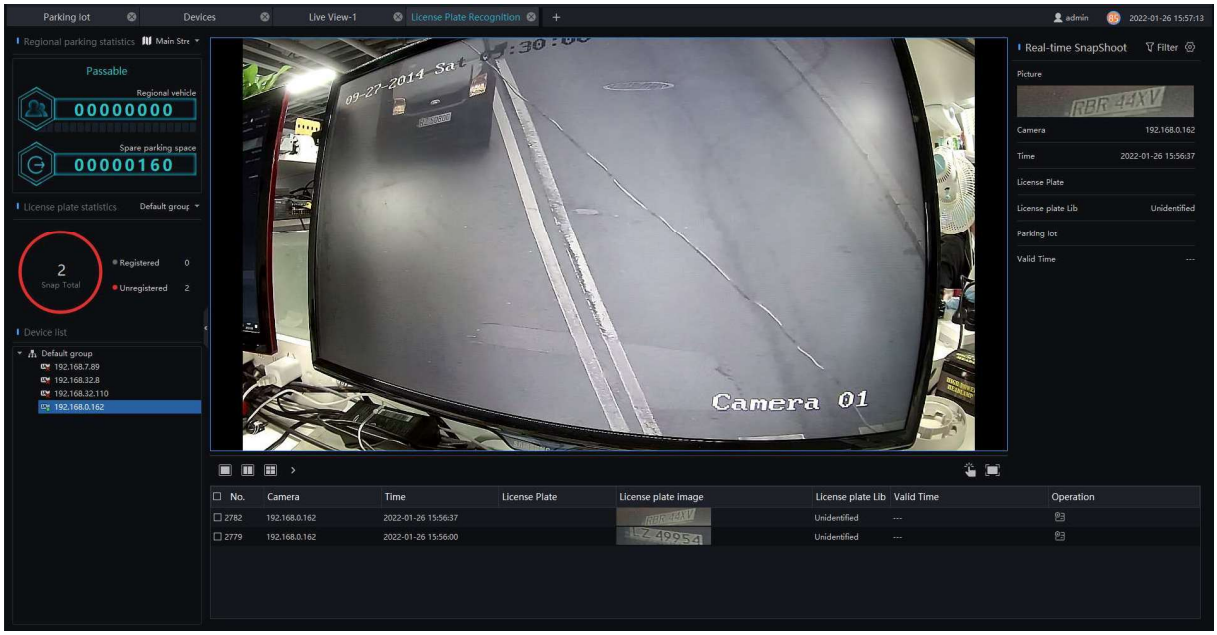
From the main menu, click the 

icon to access the detailed interface, as shown in Figure 9-7.

NOTE

This function only supports **cameras with license plate recognition**.

Figure 9-7 License plate recognition interface



Procedure:

Step 1 Select the **region** to display statistics.

Step 2 The license plate recognition cameras in that region will appear in the list area.

Step 3 Click a **working camera** to display its live feed.

Step 4 The captured license plates will appear in the area below the live video.

Step 5 The corresponding license plate details from the library will display on the right-hand panel.

Step 6 Click the **I/O Output**  button to manually open or close I/O output (for example, to control gates or barriers).

Step 7 The system will show the number of available **spare parking spaces** in real time

9.4 License Plate Search

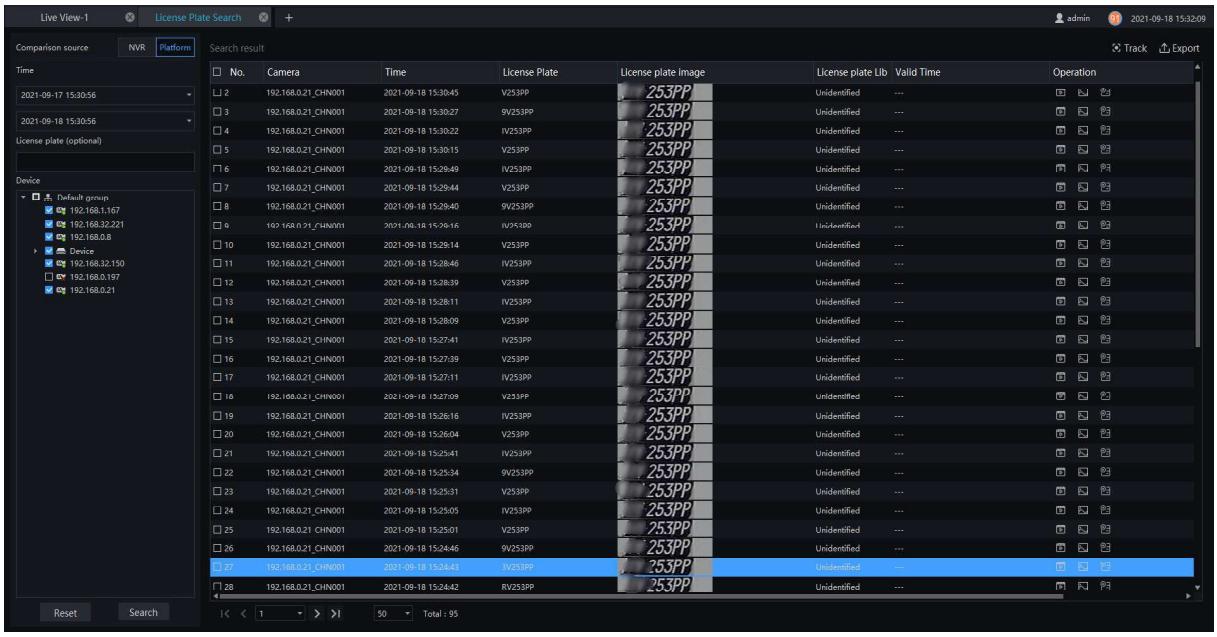
The **License Plate Search** 

allows you to search for vehicle snapshots, track vehicles across multiple cameras, and export search results, as shown in Figure 9-8.

Procedure:

Step 1 Set the **search time range** and select the **capture devices** you want to include.
Step 2 Click **Search** — the system will display the search results.
Step 3 Click on any image in the results to view its detailed information.

Figure 9-8 IPC license plate search



LPC License Plate Search

Step 1 Select **two or more images** captured by at least two different cameras.
Step 2 Click **Track** to generate the vehicle's movement track.
Step 3 Use the operation icons to: Play the recorded video, View images, Add the license plate to a library.
Step 4 Click **Export** to export the search results. User may choose between **no-graph mode** or **small-graph mode** for export.

Figure 9-9 Export

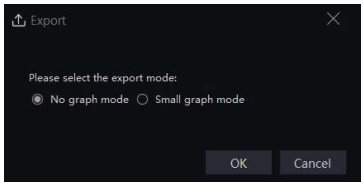
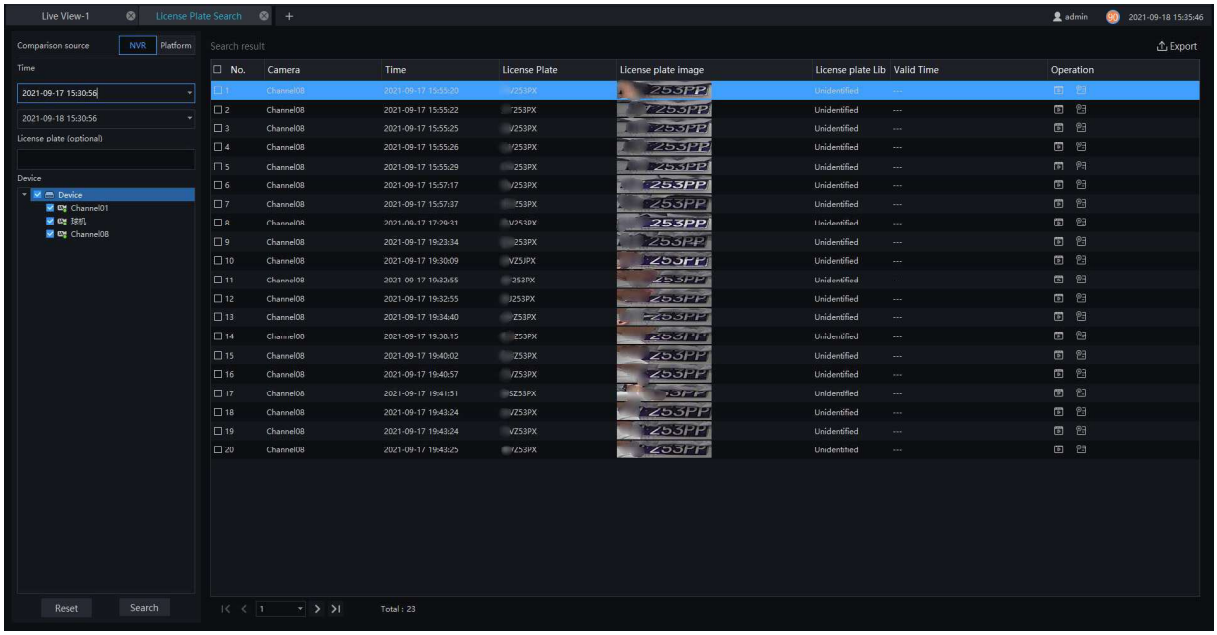


Figure 9-10 NVR license plate search

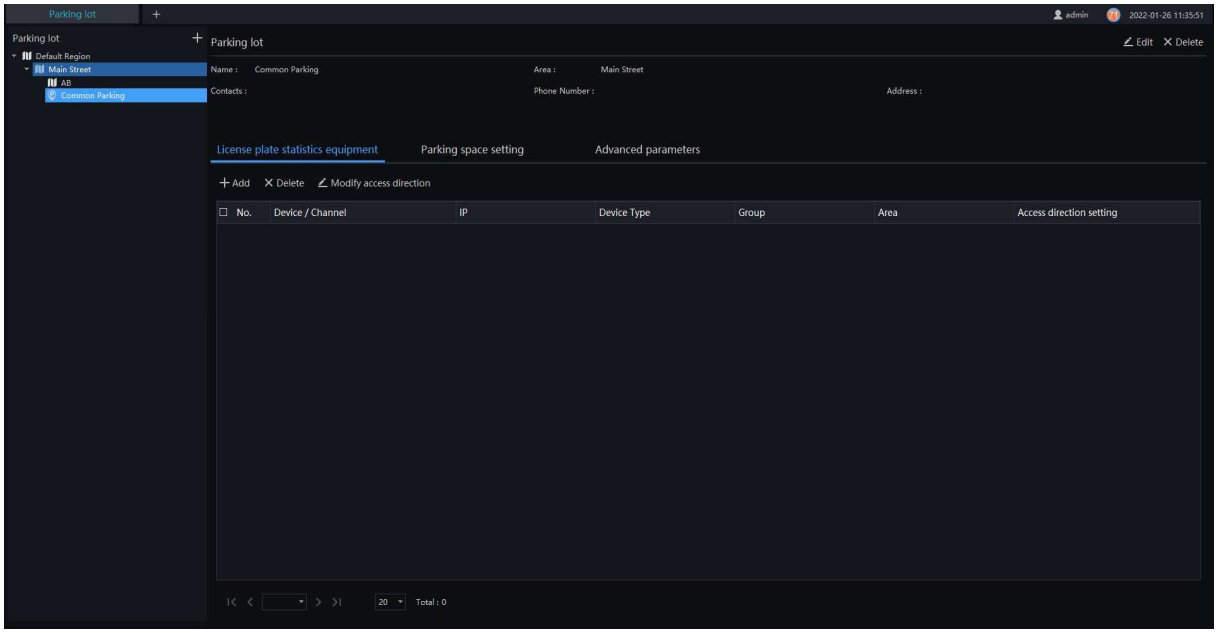


9.5 Parking lot

NOTE Before setting up the parking lot, you must first use the **Regional Management** interface to define the areas where parking will be managed.

In the **Parking Lot** interface, user may manage the cameras that capture license plates and organize them into defined areas, as shown in Figure 9-11.

Figure 9-11 Parking lot

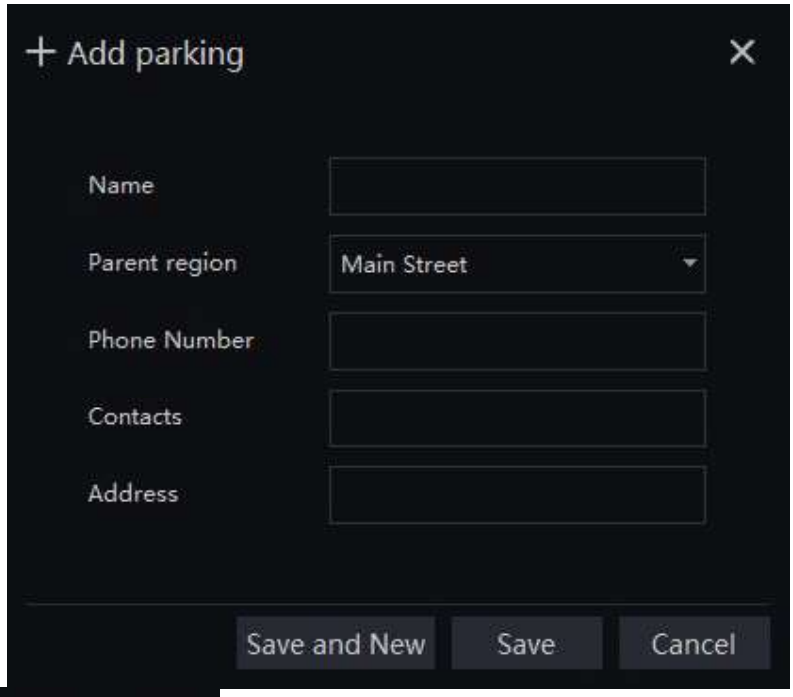


Add Parking Lot
Step 1 Click the **Add Parking** icon. Enter the following details:

- **Parking Lot Name**
- **Parent Region**
- **Phone Number / Contact Person**
- **Address**

Click **Save** to store the new parking lot.
To continue adding multiple parking lots, click **Save and New**.

Figure 9-12 Add parking



Step 2 Click 

icons to manage existing parking lots.

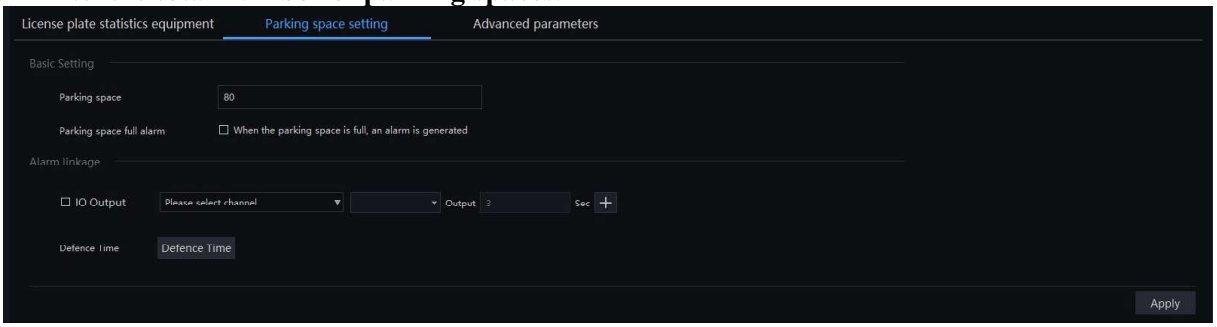
Step 3 Click 

icon to assign devices that will count the number of parked vehicles. Click 

icon to edit the parking lot information

Set Parking Space Parameters

Step 1 Open the **Parking Space Setting** interface, as shown in 9-13.
Step 2 Enter the **total number of parking spaces.**

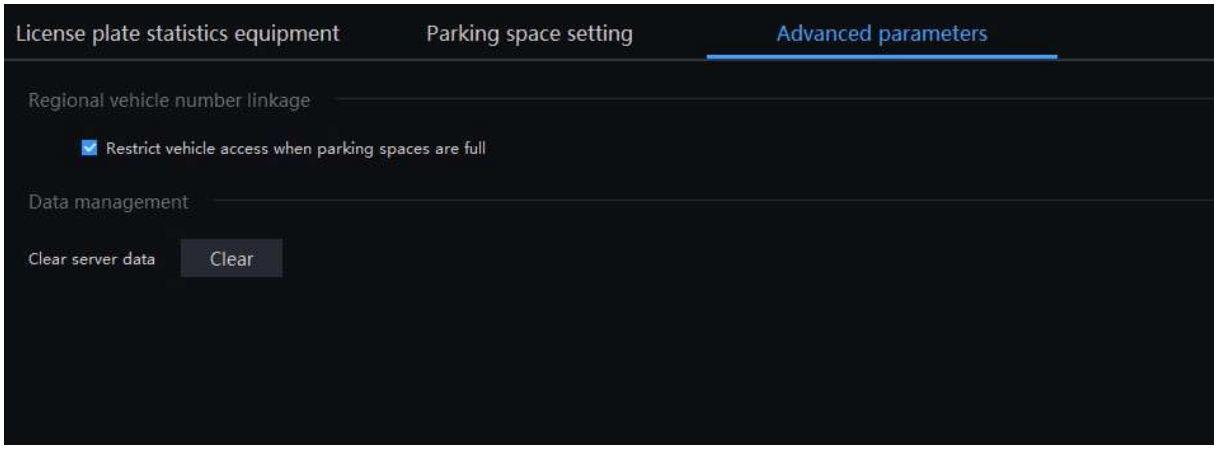


Step 3 Enable the **Space Full Alarm** option. When the parking lot is full, an alarm will be triggered.

Step 4 Configure the **Alarm Linkage**: Tick **I/O Output** if needed. Set the **Defense Time** to define when the alarm should be active.

Step 5 Click **Apply** to save all settings.

Figure 9-13 • Advanced parameters



At advanced parameters, click “Clear” to clear the server data (the data of real time capturing pictures).

10 Multi-target Recognition

NOTE

This function is only supported on **Windows systems** and does not apply to Mac systems.

10.1 AI Recognition

The **AI Recognition** interface allows you to capture snapshots of vehicles, cars, humans, and non-motor vehicles using AI cameras.

NOTE Only **AI cameras** and **vehicle cameras** are supported.

From the main menu, click the  icon to enter the detailed interface, as shown in Figure 10-1.

Figure 10-1 AI recognition

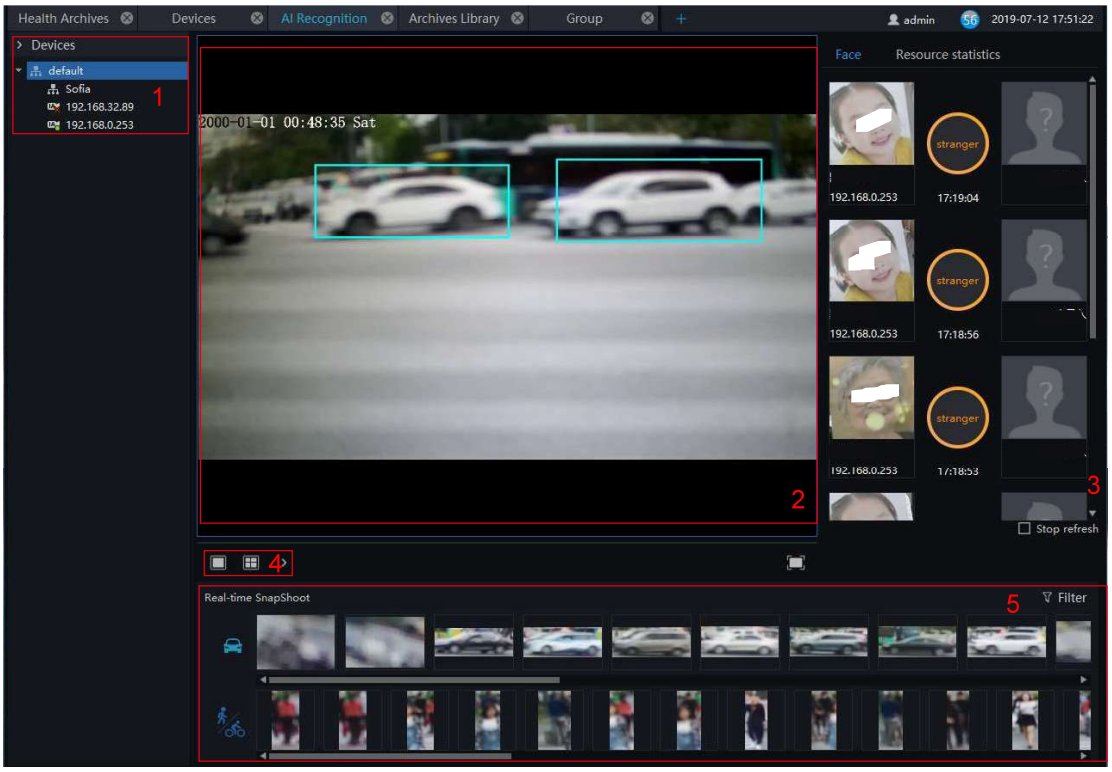


Table 10-1 AI recognition

No.	Function	Instruction
1	Device list	Displays all connected AI cameras.
2	Live video	Shows live video from selected cameras.

No.	Function	Instruction
3	Face/ Resource statistics	Compares face snapshots with the face library and shows the results; also counts vehicles, pedestrians, and bicycles.
4	Switch windows	Allows switching between live video window layouts.
5	Real-time snapshot	Displays real-time snapshots of license plates, faces, and bicycles. User may also set filter conditions here.

Figure 10-2 Filter

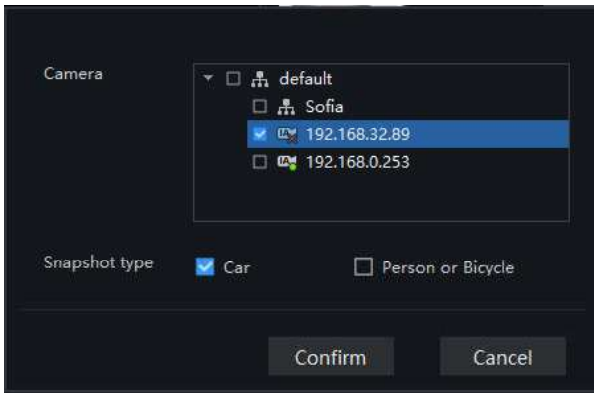


Figure 10-3 Resource statistics

10.2 Intelligent Search

The **Intelligent Search** interface allows you to search for snapshots of vehicles or persons captured by AI cameras.

NOTE

This feature is supported only on AI cameras.

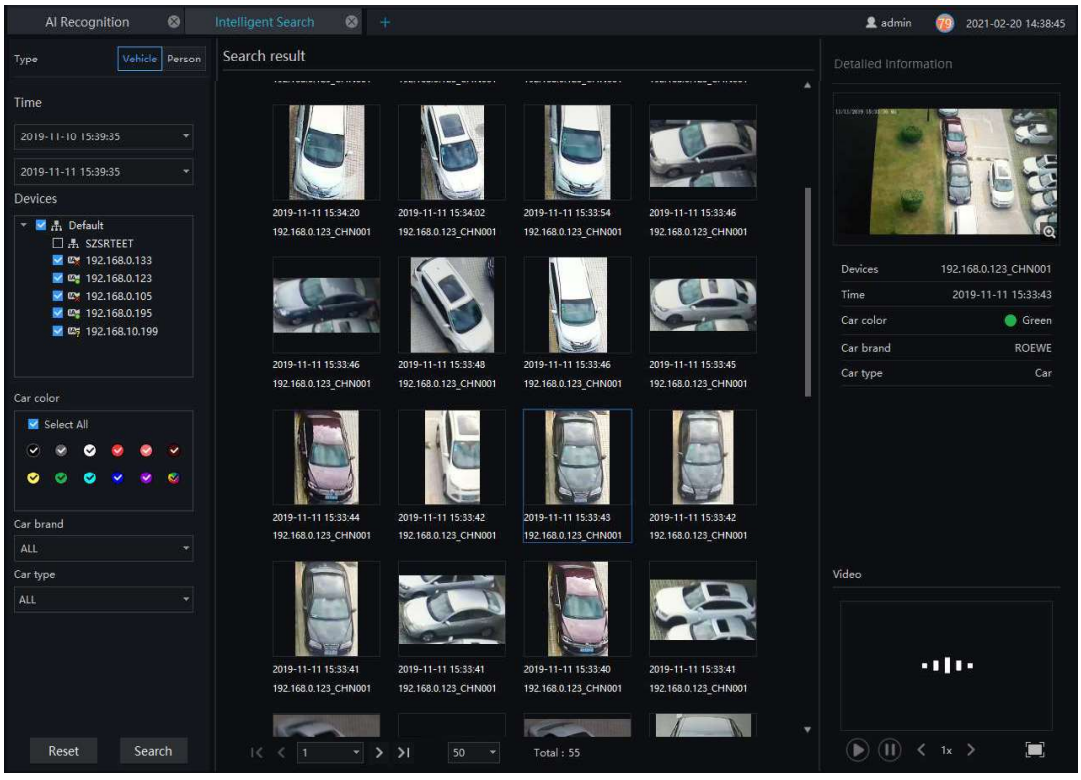
On the main menu page, click the 

icon to access the detailed interface, as shown in Step 1.

Procedure:

Step 1 Choose the **Type**: **Car** or **Person**
Step 2 Set the **search time range**.
Step 3 Select the **capture devices** to include in the search.
Step 4 Optionally, enter a **license plate number** to narrow the search.
Step 5 Click **Search** — the system will display the search results.
Step 6 Click on any image in the results to display detailed information.

Figure 10-4 AI search



10.3 Traffic Statistics

The **Traffic Statistics** page allows you to query people and vehicle traffic under an organization and analyze device-specific traffic over a selected time.

NOTE

This function only supports AI cameras.

Choose month, day, or hour to count.

On the main menu page, click the 

icon to open the detailed interface, as shown in Figure 10-5.

Functions and Options

- Choose the **statistical time range**:
  - By month, day, or hour.
- View traffic statistics by:
  - **Organization group** (group-level people and vehicle traffic) or
  - **Device traffic** (traffic on a specific day).

Figure 10-5 Traffic statistics

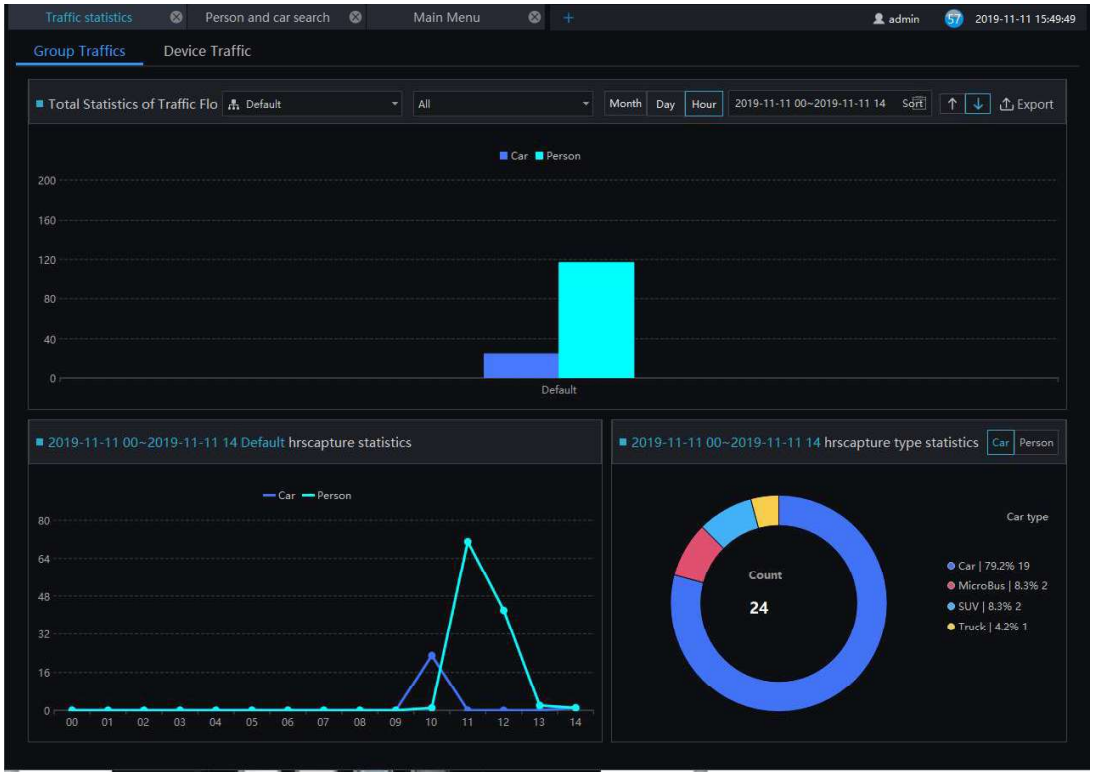
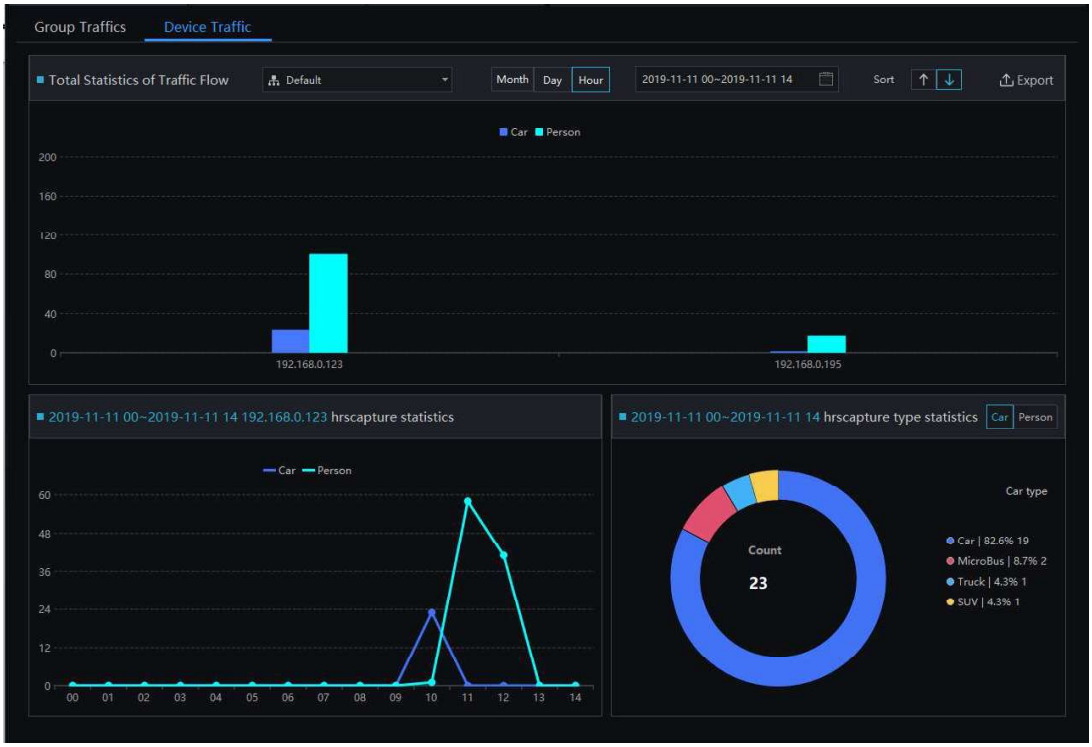


Figure 10-6 Device traffic



10.4 Traffic Area Config

NOTE

Before configuring traffic areas, you must first define regions using the Regional Management interface.

1. Click the  icon.
2. Add a new area by clicking the **"+" button**.
3. Select the AI cameras (make sure their **personnel count function** is enabled).
4. After adding, the area list will appear on the interface, as shown in Figure 10-7.

Figure 10-7 Traffic area configuration

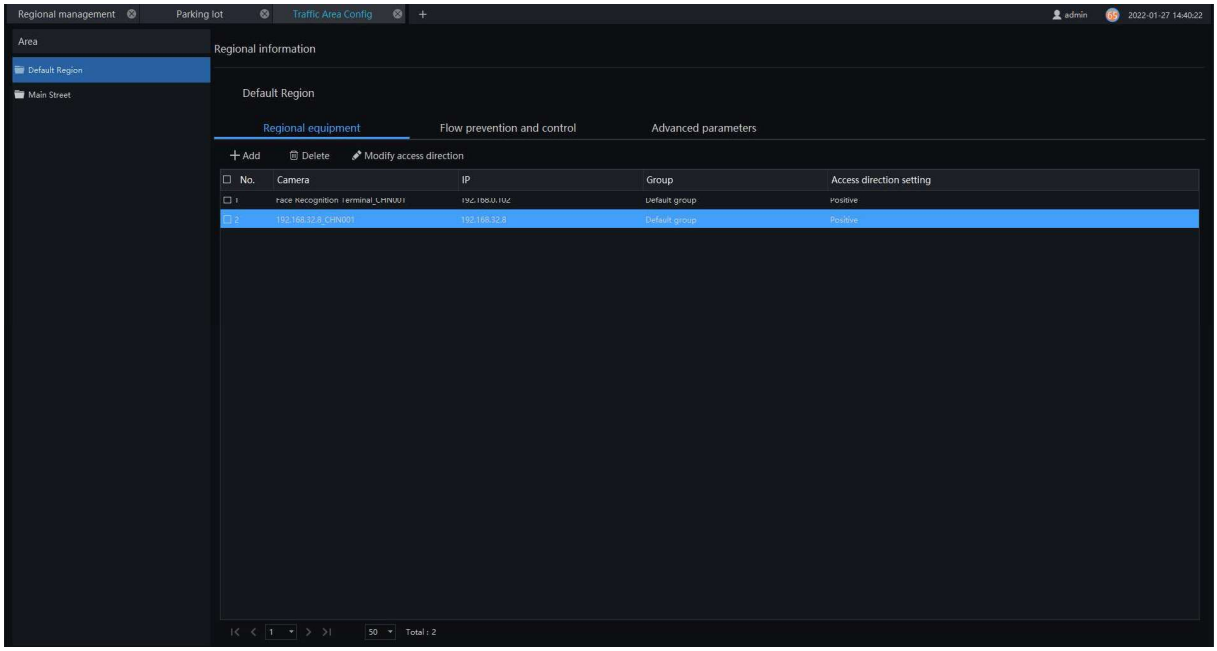
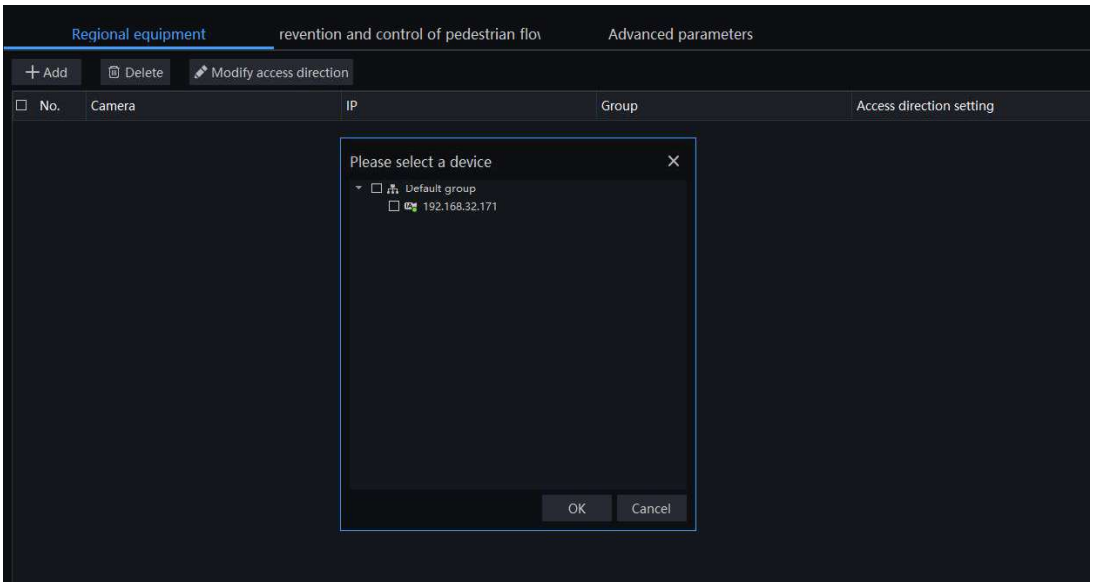
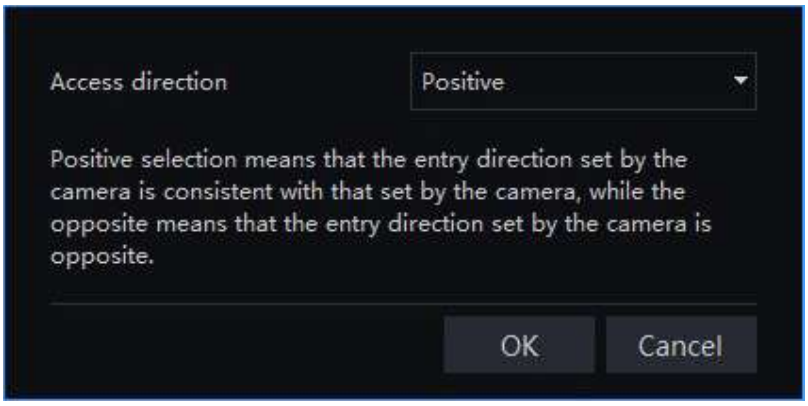


Figure 10-8 Regional equipment

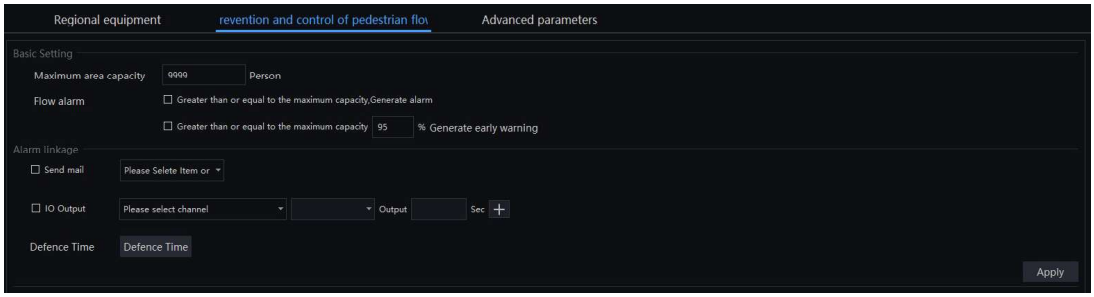


Step 2 Choose the camera. Click **Modify Access Direction** to define entry/exit direction, as shown in figure.



Step 3 Define the **maximum area capacity** and enable the **flow alarm**. Configure **alarm linkage** to notify the manager when limits are exceeded.

Figure 10-9 Prevention and control of pedestrian flow



Advanced Parameters

Step 4 **Statistical Calibration**

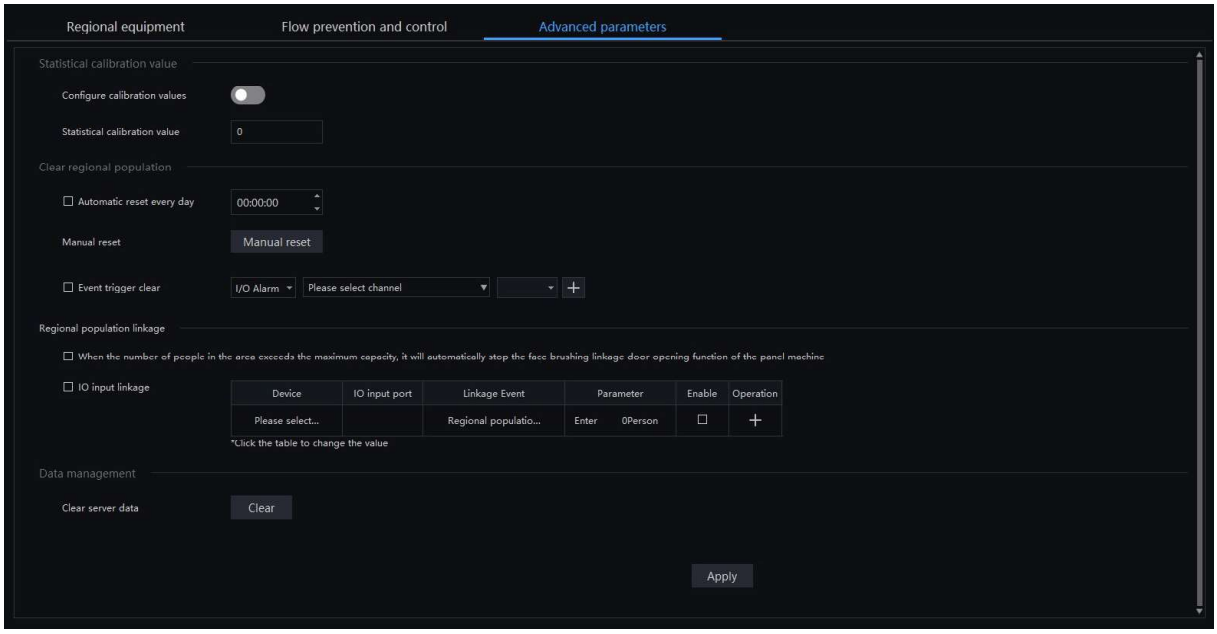
Step 5 **Clear Regional Population**

Step 6 **Regional Population Linkage**

Step 7 **Reset Options**:

- **Automatic reset every day**: clears traffic data at the set time.
- **Manual reset**: clears data when you click the **Manual Reset** icon.
- **Clear Server Data**: clears all personnel data (use cautiously to avoid data loss). Use this option carefully to avoid losing critical data.

Figure 10-10 Advanced parameters



Step 8 Click **Apply** to save the settings.

10.5 People Flow Statistic

The **People Flow Statistic** page allows you to analyze passenger flow and regional statistics using AI cameras.

Note: This feature supports **only AI cameras**.

From the main menu, click the  icon to open the detailed interface, as shown in Figure 10-11.

Passenger Flow Statistics

This function counts the number of people entering and exiting monitored areas.
It supports:

- **Single-point statistics**
- **Multi-point statistics**
- **Regional statistics**

Procedure:

Step 1 Select the **statistical method**.
Step 2 Set the **date**.
Step 3 Choose the **statistical type** and **equipment**.
Step 4 Click **Search** to view the statistical results.

The results can be displayed in three formats, as shown in Figure 10-11 .

Figure 10-11 Passenger flow statistics

Regional Statistics

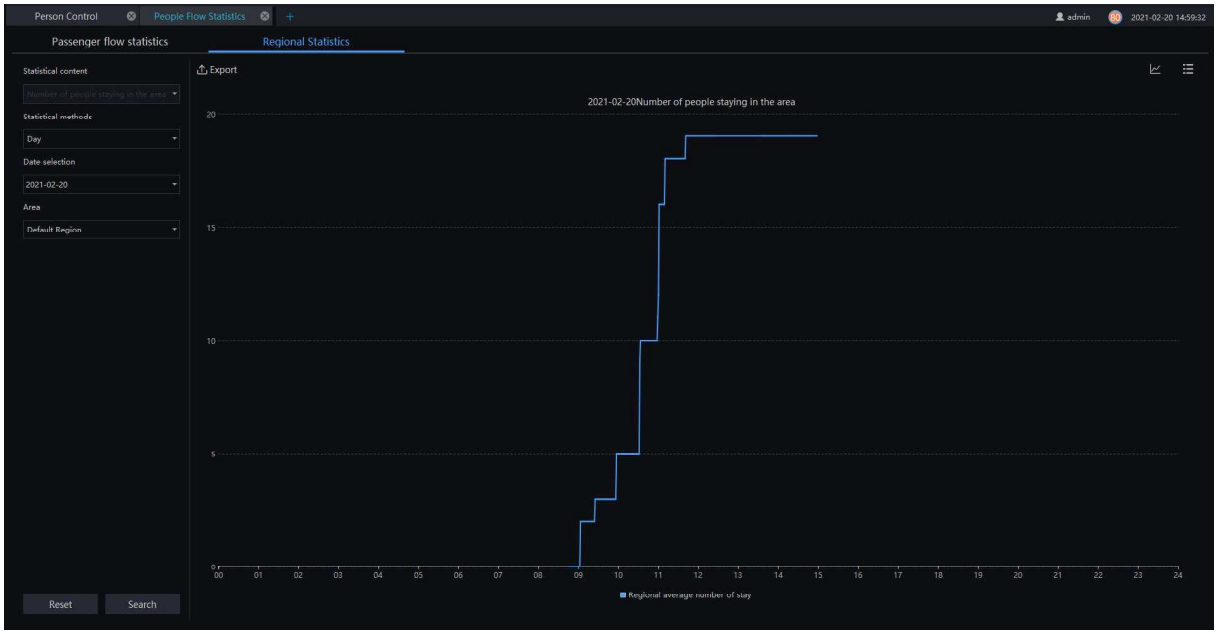
This function counts the number of people **staying within a defined area**.

Procedure:

Step 1 Set the statistical method (year, month, or day).
Step 2 Select the area to analyze.

Step 3 Retrieve relevant data accurately, as shown in Figure 10-12.

Figure 10-12 Regional statistics



10.6 Person Control

The **Person Control** page visually displays real-time human flow data using AI cameras. It offers three display modes to help operators monitor crowd levels effectively, as shown in Figure 10-13.

Figure 10-13 Person control

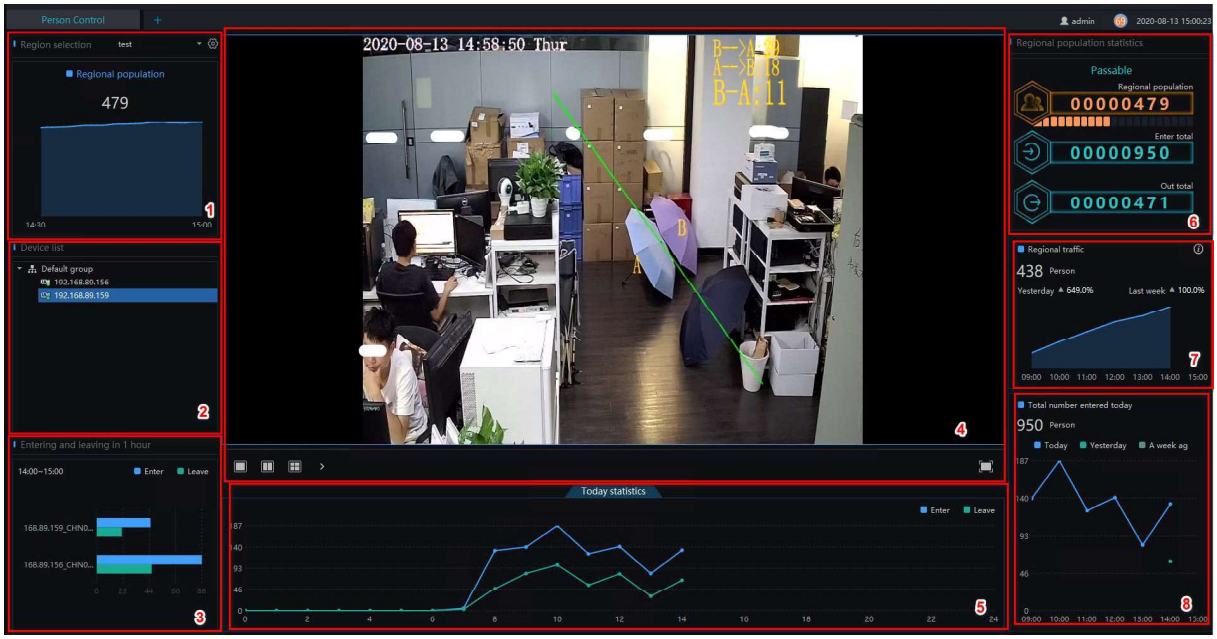


Table 10-6 Person control

No.	Function	Description
1	Region selection	select the area you want to monitor. The system will show the real-time number of people in that area (updated every minute).
2	Device list	Displays a list of devices installed in the selected area.
3	Entering and leaving in 1 hour	Compares entry and exit data from different cameras over the past hour (updated hourly).
4	Live video play	Choose split-screen layouts to watch real-time video feeds from the listed devices.
5	Toady statistics	Shows the hourly count of people for the current day (updated hourly).
6	Regional population statistics	Displays the number of people currently in the area, total entries, and exits. If the count exceeds the warning threshold, it shows in orange; if it exceeds the maximum, it shows in red (updated every minute).
7	Regional traffic	Displays hourly traffic data for the region.
8	Total number entered today	Shows a comparative display of today's, yesterday's, and the past three days' entry numbers (updated hourly).

Figure 10-14 Display setting

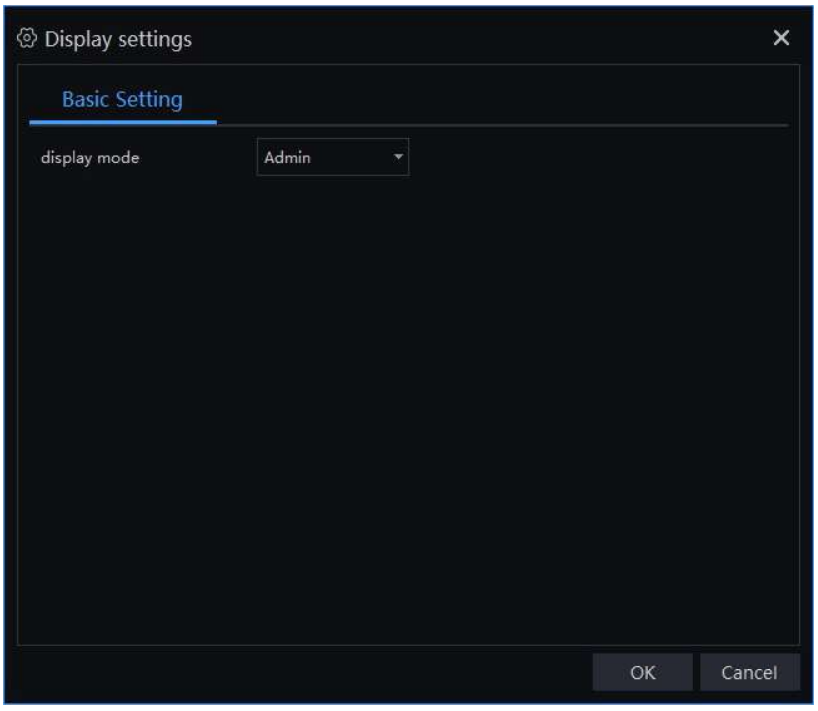


Figure 10-15 Preview mode

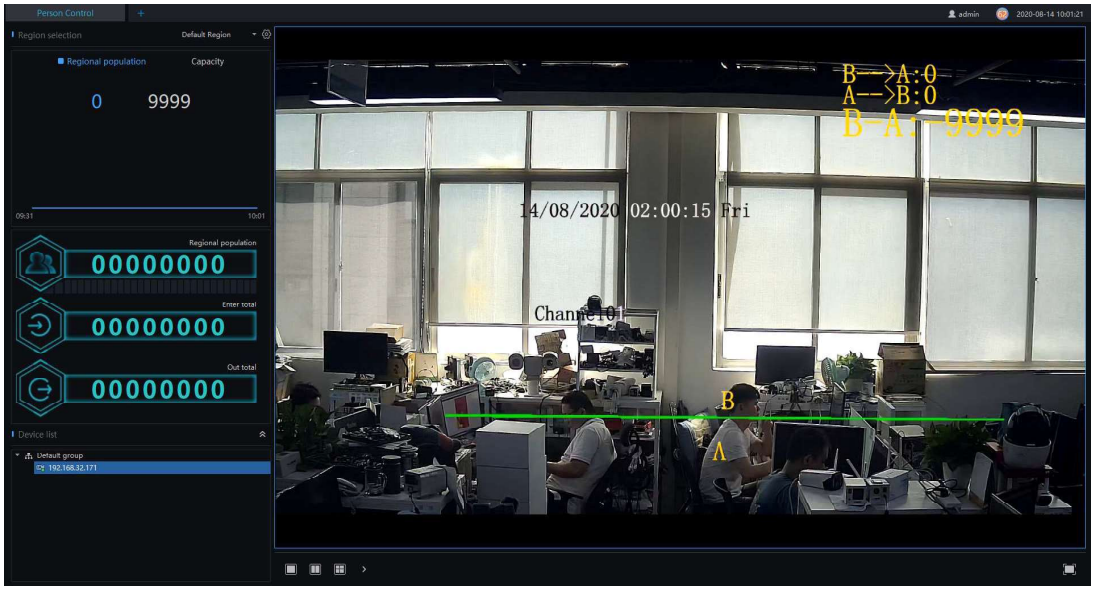
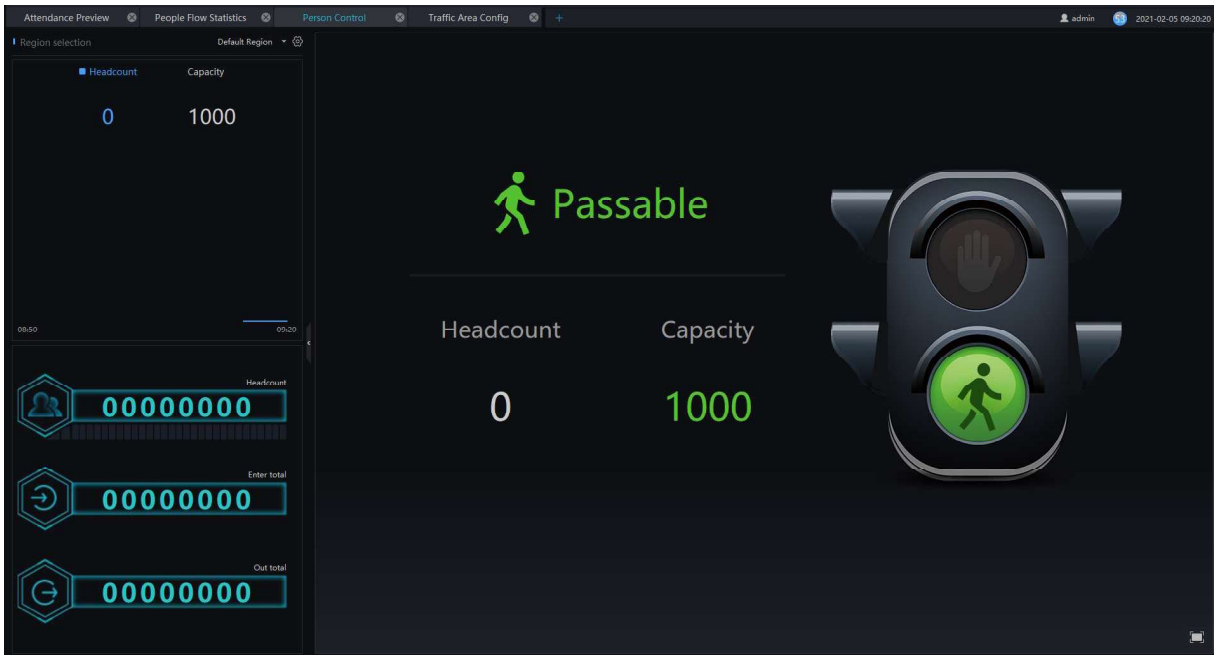


Figure 10-16 Traffic light display mode



Traffic Light Display Mode

In **Traffic Light Mode**:

- When the number of people is below capacity → Green light, passage allowed.
- When the number of people exceeds the threshold → Orange or Red light, indicating restricted entry. (DOUBLE CHECK)

NOTE

This function is only supported on **Windows systems**, not on Mac systems.

11.1 Attendance Config

The **Attendance Config** section includes attendance group management, schedule management, and attendance settings.

Figure 11-1 Attendance configuration

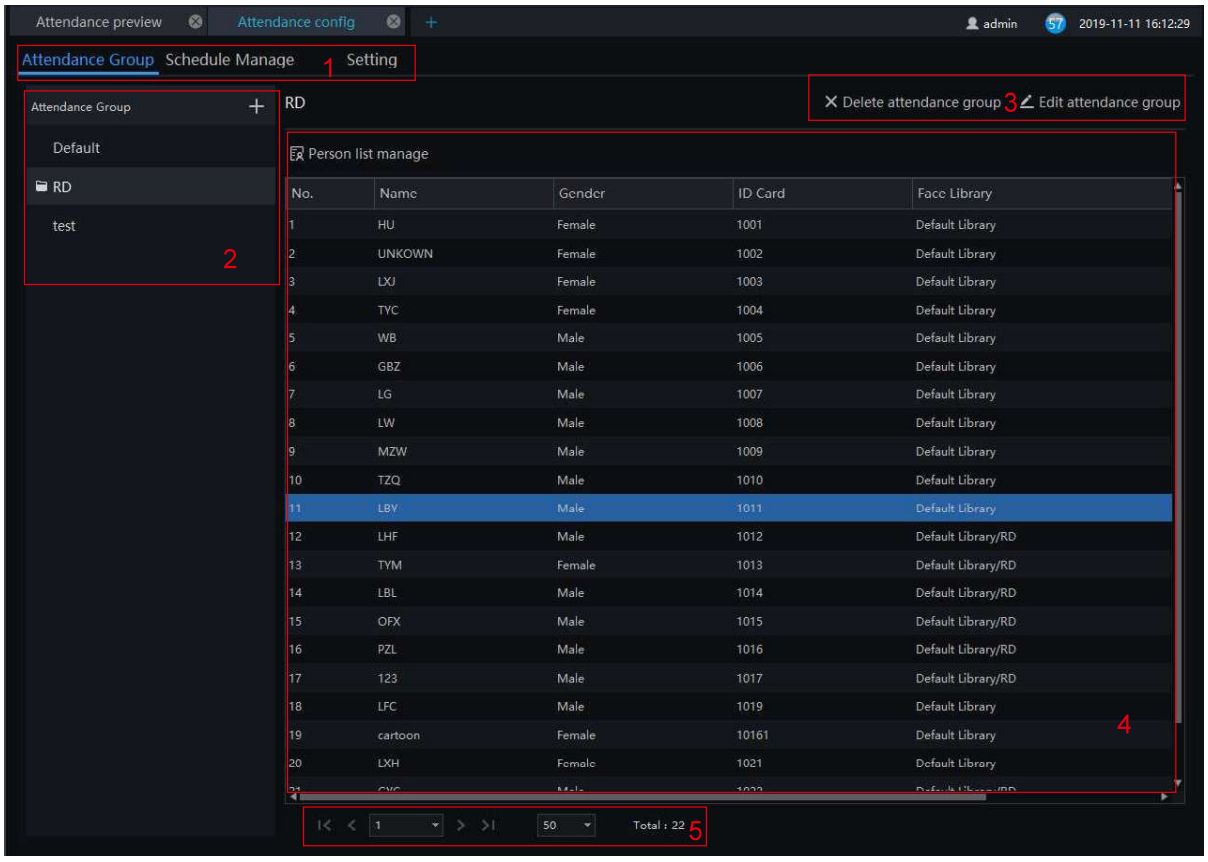


Table 11-1 Attendance

No.	Function	Description
1	Guide of attendance	Access attendance group, schedule management, and settings
2	Group	View attendance groups.
3	Basic operation	Edit or delete attendance groups.

No.	Function	Description
4	Person list management	Manage personnel assigned to group; information of group.
5	Interface display	Display current personnel page and alarm page.

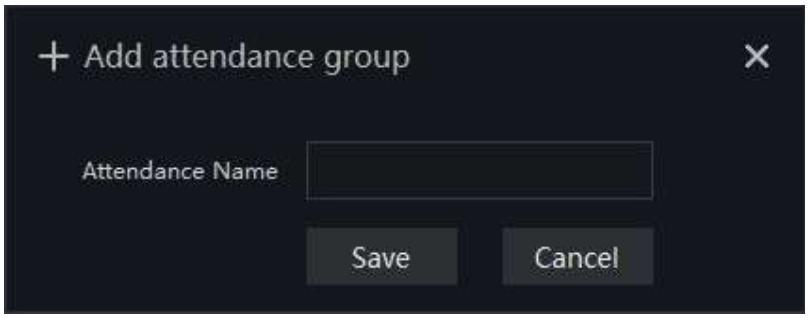
11.1.1 Attendance Group

Procedure:

Step 1 Click "+" to add new attendance group.

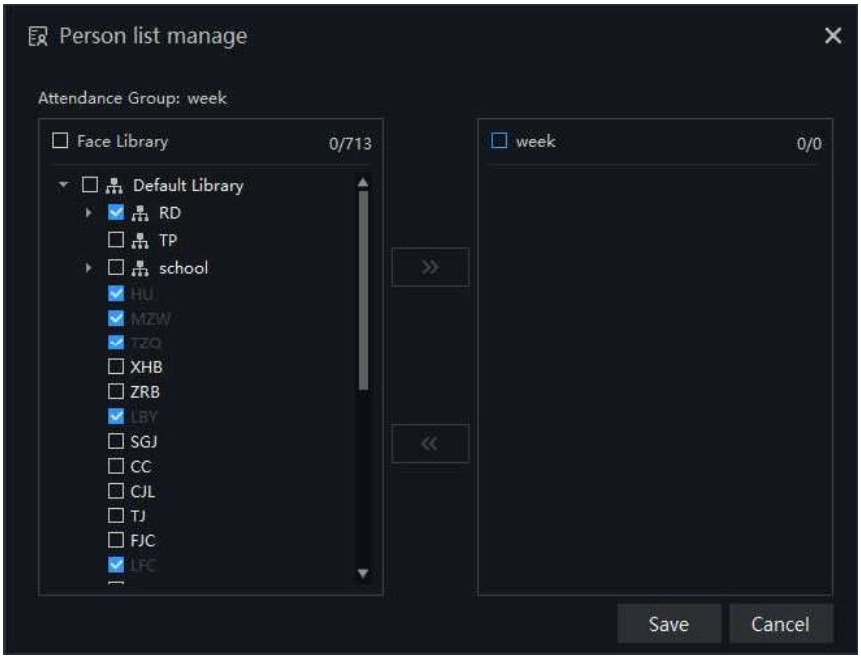
Step 2 Enter the **Group Name.**

Figure 11-2 Add attendance group



Step 3 Click "Person list manage" to assign people to the new group, as shown in Figure 11-3.

Figure 11-3 Person list management



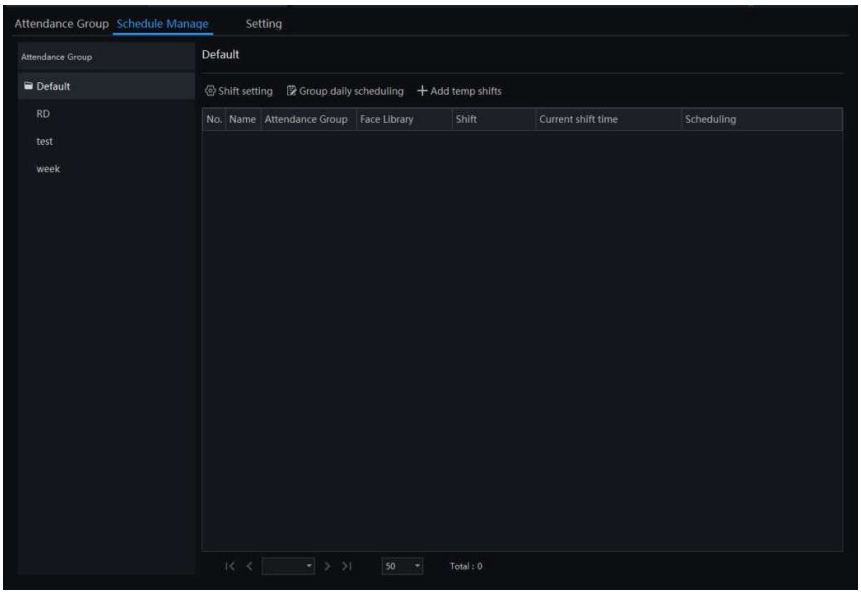
Step 4 Select staff from the Face Library and tick them into the attendance group.

Step 5 Click "Save" to confirm.

Step 6 To modify the group later, click **Edit Attendance Group**.

11.1.2 Schedule Manage

Figure 11-4 Schedule manages



Procedure:

Step 1 Click **Shift Setting** to enter the schedule interface, as shown in Figure 11-5.

Figure 11-5 Shift setting

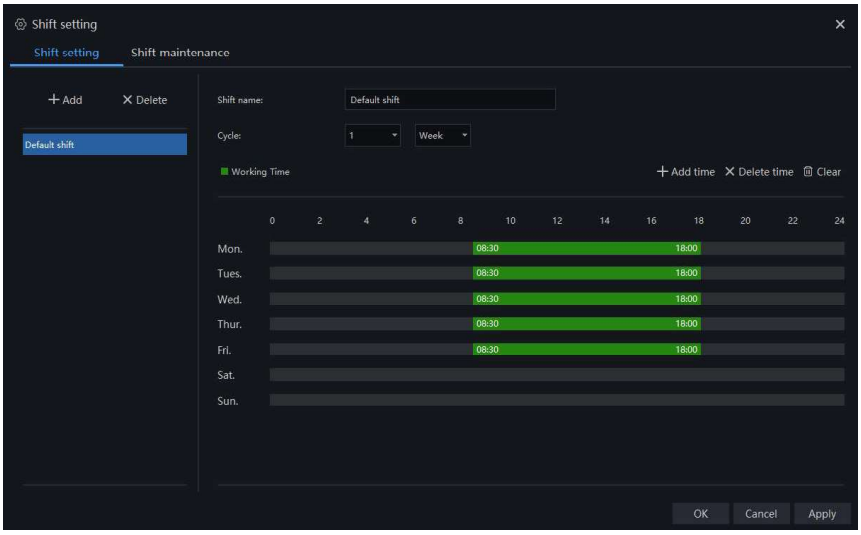
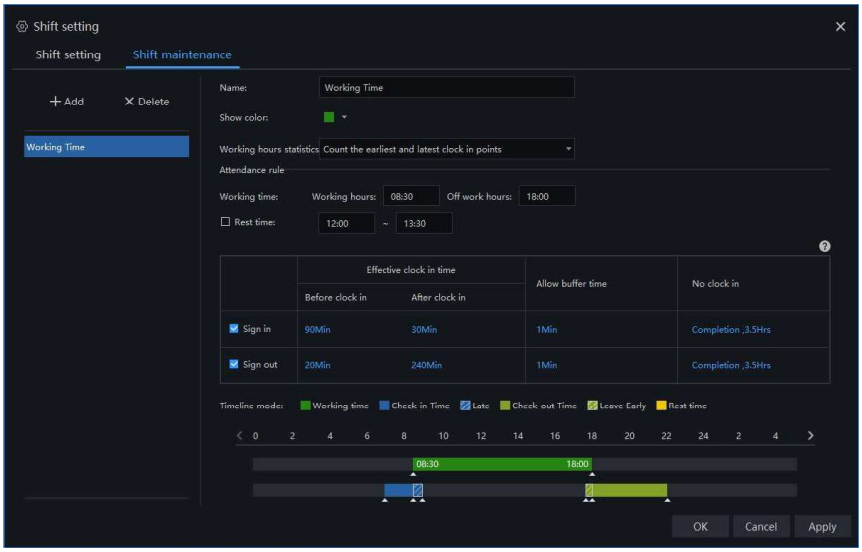
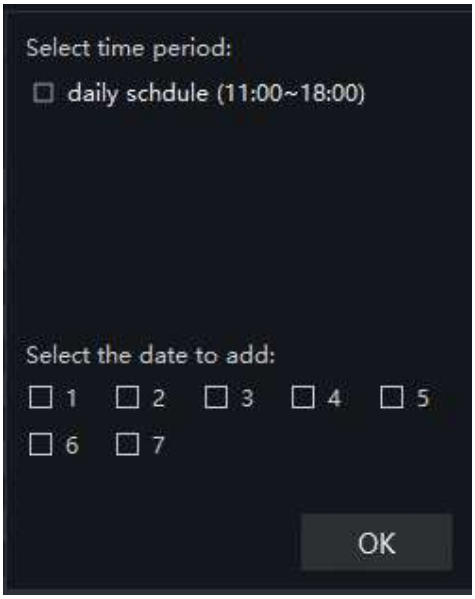


Figure 11-6 Shift maintenance



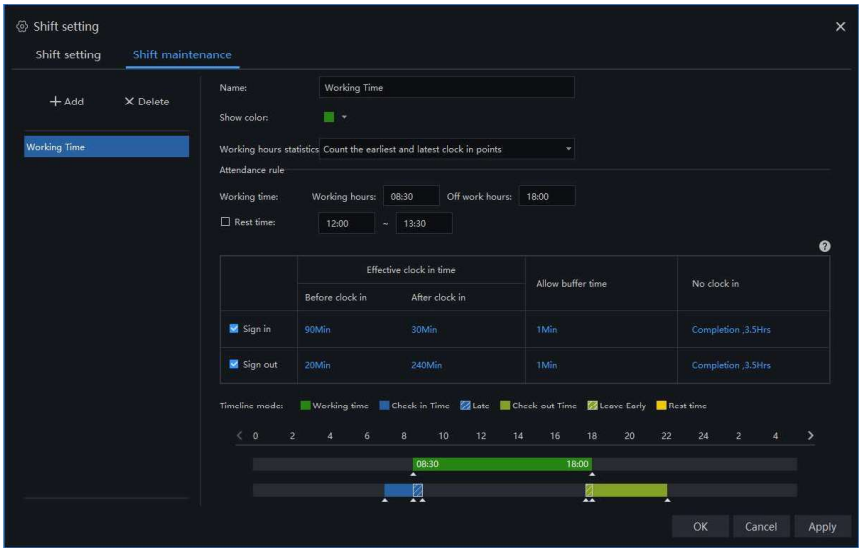
Step 2 Click **Add** to create a new schedule, or **Delete** to remove one.
Step 3 Set the **Shift Name** and **Cycle**. User may also tick **Rest Time** to include break periods.
Step 4 Click **Add Time** or **Delete Time** to adjust the schedule as shown in Figure 11-7.

Figure 11-7 Add time



Step 5 Go to **Shift Maintenance** to maintain the shift details, as shown in Figure 11-8

Figure 11-8 Shift maintenance

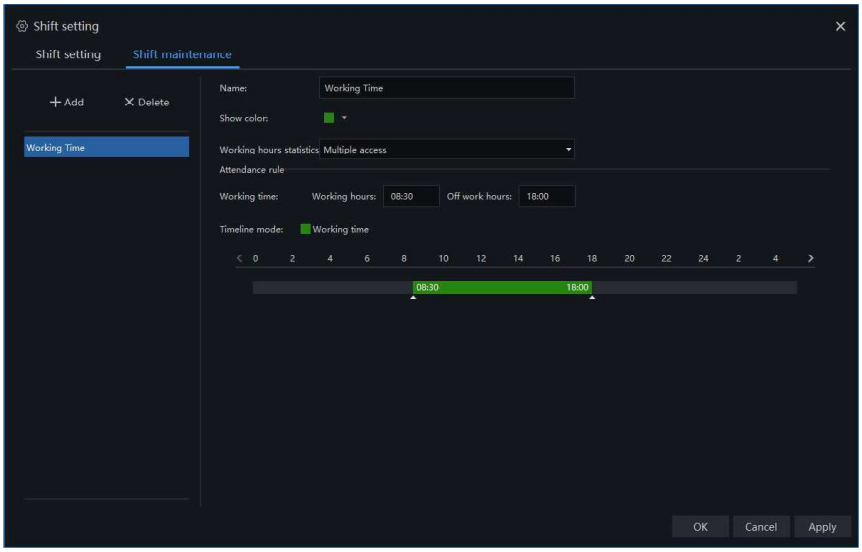


Example:

- Working hours: 8:30–18:00
  - Sign-in from 7:00–9:00 is valid;
  - Signing in from 8:30–9:00 is considered late;
  - Missing sign-in = 3.5 hours absenteeism.
- Sign-out time: 17:40–22:00
  - Signing out from 17:40–18:00 is considered early leave.

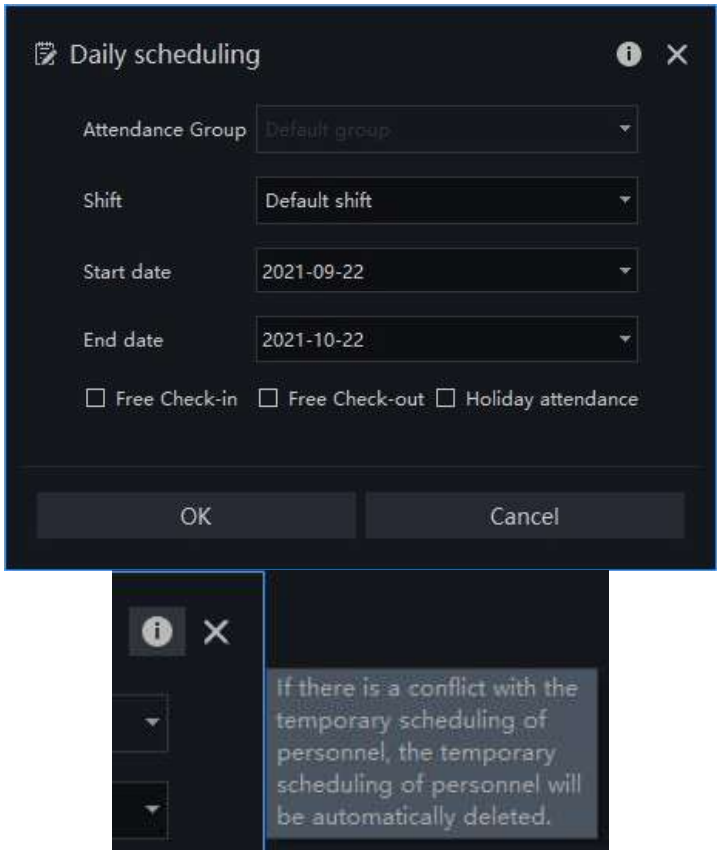
Work Hours Statistics:
Calculates the earliest and latest clock-in/out times and totals multiple access times.

Figure 11-9 Multiple access



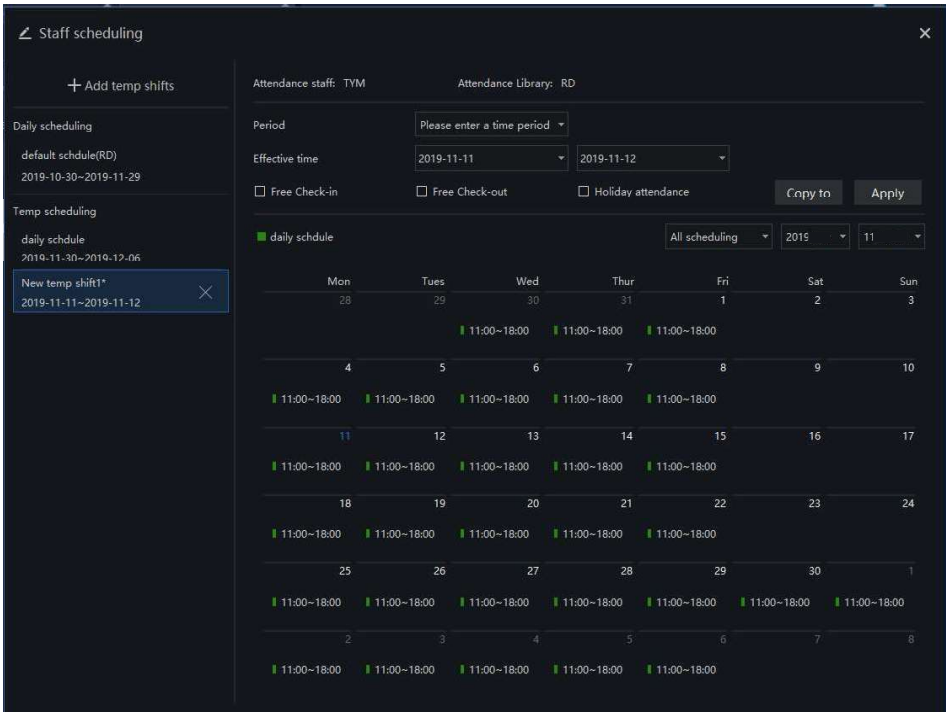
Step 6 Click **OK** to save the shift.
Step 7 Use **Group Daily Schedule** to assign daily schedules, as shown in Figure 11-10.

Figure 11-10 Daily scheduling



Step 8 To assign temporary shifts, select a staff member, click **Add Temp Shifts**, set the time, and click **Apply**, as shown in Figure 11-11.

Figure 11-11 Add temp shifts



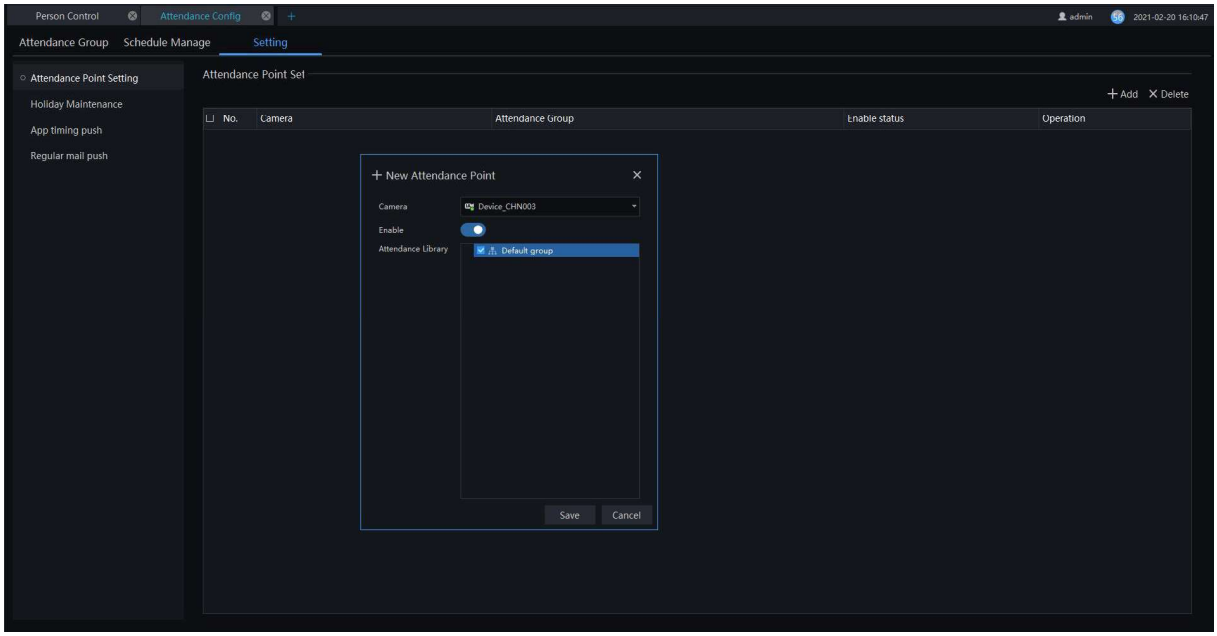
11.1.3 Attendance Setting

11.1.3.1 Attendance Point

Procedure:

Step 1 Choose **Attendance Point Setting**, as shown in Figure 11-12.

Figure 11-12 Attendance point



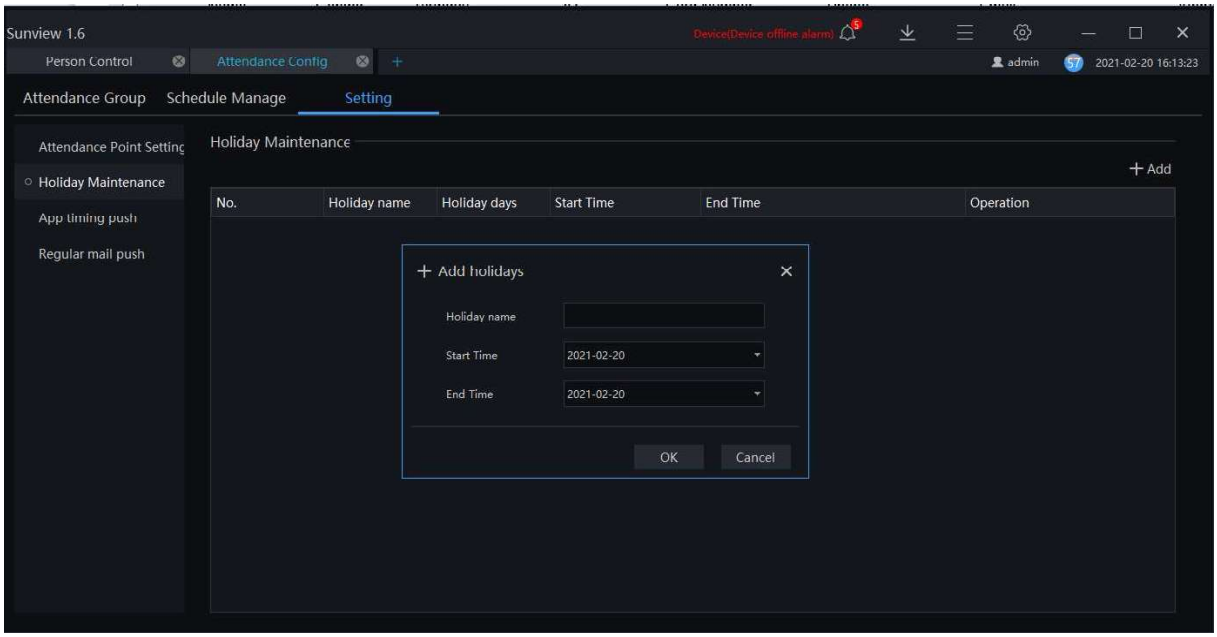
Step 2 Click **Add** to create a new point.
Step 3 Select the **Camera** and enable the function.
Step 4 Tick the **Attendance Library**.
Step 5 Click **Save**.

11.1.3.2 Holiday Maintenance

Procedure:

Step 1 Choose **Holiday Maintenance**, as shown in Figure 11-13.

Figure 11-13 Holiday maintenance



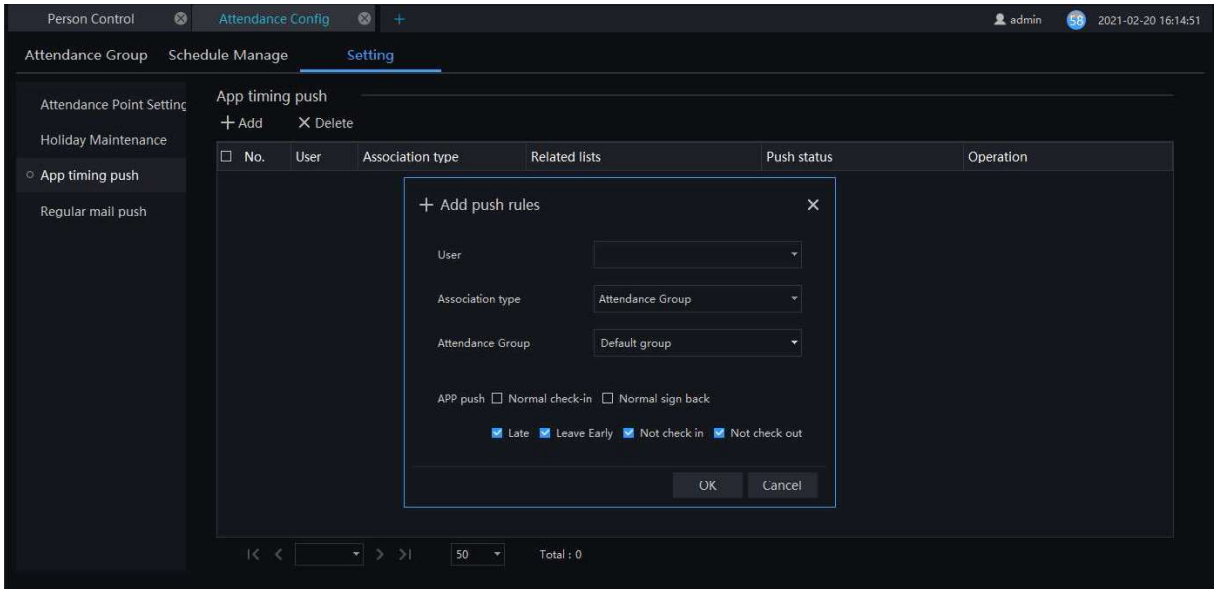
Step 2 Click **Add**.
Step 3 Enter the **Holiday Name**.
Step 4 Set the **Start Time** and **End Time**.
Step 5 Click **OK** to save the settings.

11.1.3.3 App Timing Push

Procedure:

Step 1 Choose **App Timing Push**, as shown in Figure 11-14.

Figure 11-14 App timing push



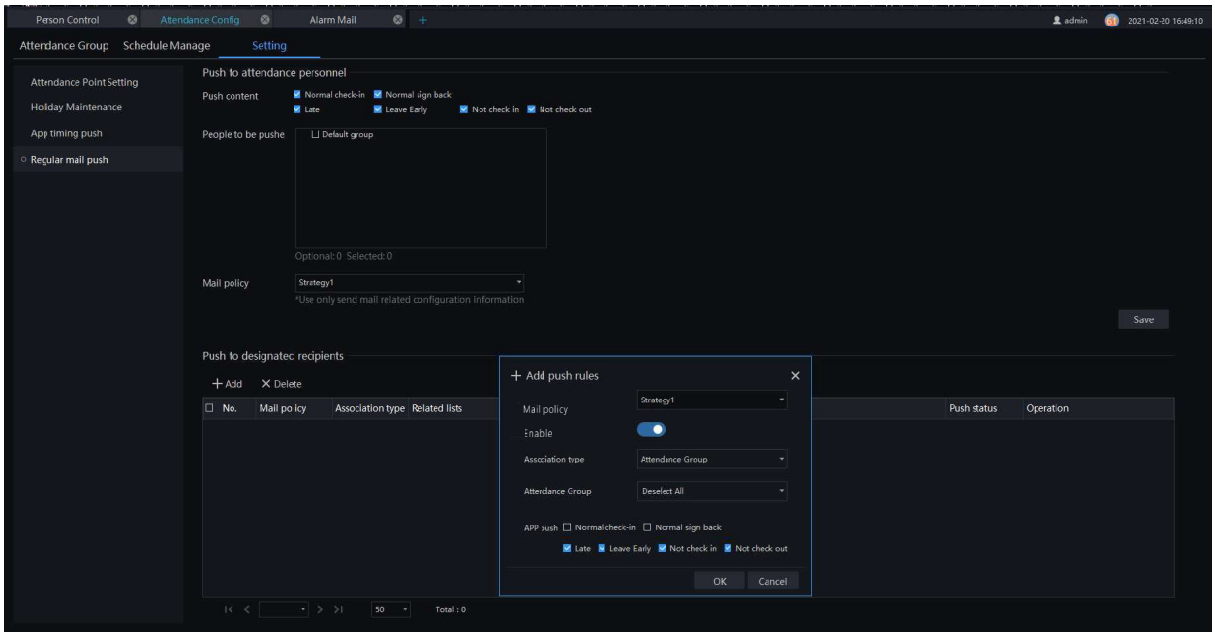
Step 2 Click **Add**.
Step 3 Select the **Attendance Type** and **Group**.
Step 4 Tick the **Push Contents** and select the **Notification Type**.
Step 5 Click **OK** to save the settings.

11.1.3.4 Regular Mail Push

Procedure:

Step 1 Choose **Regular Mail Push**, as shown in Figure 11-15.

Figure 11-15 Regular mail push



Step 2 Click **Add.**

Step 3 Tick the push contents (e.g. normal check-in, late, leave early, no check-in).

Step 4 Choose the recipients and **Mail Policy**.

Step 5 Add or delete push rules as needed.

Step 6 Click **Save** to save the settings.

11.2 Attendance Preview

The **Attendance Preview** page allows you to manage and monitor employee attendance using face detection cameras.

NOTE

This feature only works with **face detection cameras**.

From the main menu, click the  icon to access the detailed interface, as shown in Figure 11-16.

Figure 11-16 Attendance interface

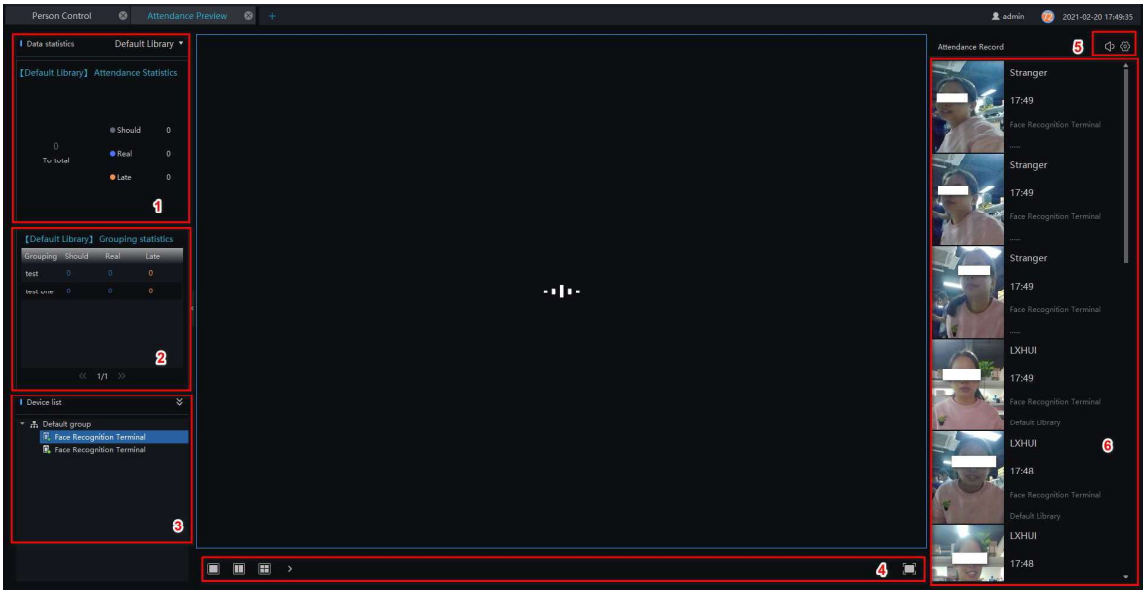


Table 11-2 Attendance

No.	Function	Description
1	Attendance statistics	Displays counts for scheduled, actual, and late attendance.
2	Group statistics	Shows attendance data for different groups.
3	Devices list	Lists face detection devices and their assigned groups.
4	Video layout/ Full screen	Switch between layout modes or enter full-screen mode.
5	Audio/Setting	Enable or disable audio and configure card parameters.
6	Snapshot of attendance	Displays basic snapshot information captured at attendance points.

Procedure:

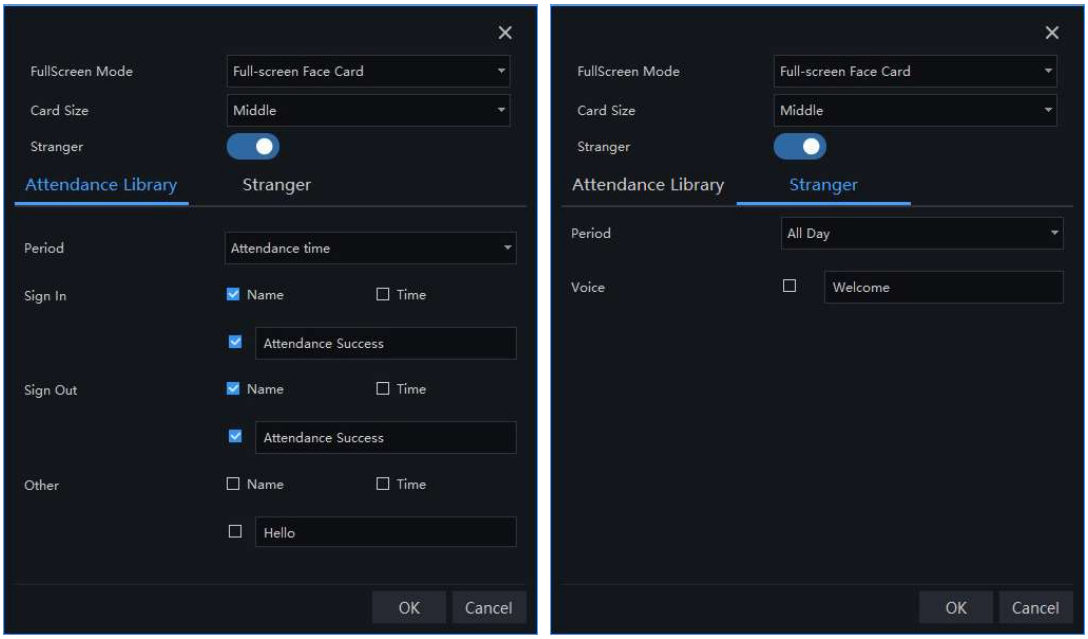
Step 1 Select a **display device** to play live video.

Step 2 The system will show personnel information when staff pass through attendance points.

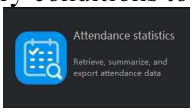
Step 3 Click the **Settings** icon to adjust attendance-related parameters.

Step 4 Configure **card parameters** in the library if needed.

Figure 11-17 Card parameters of library

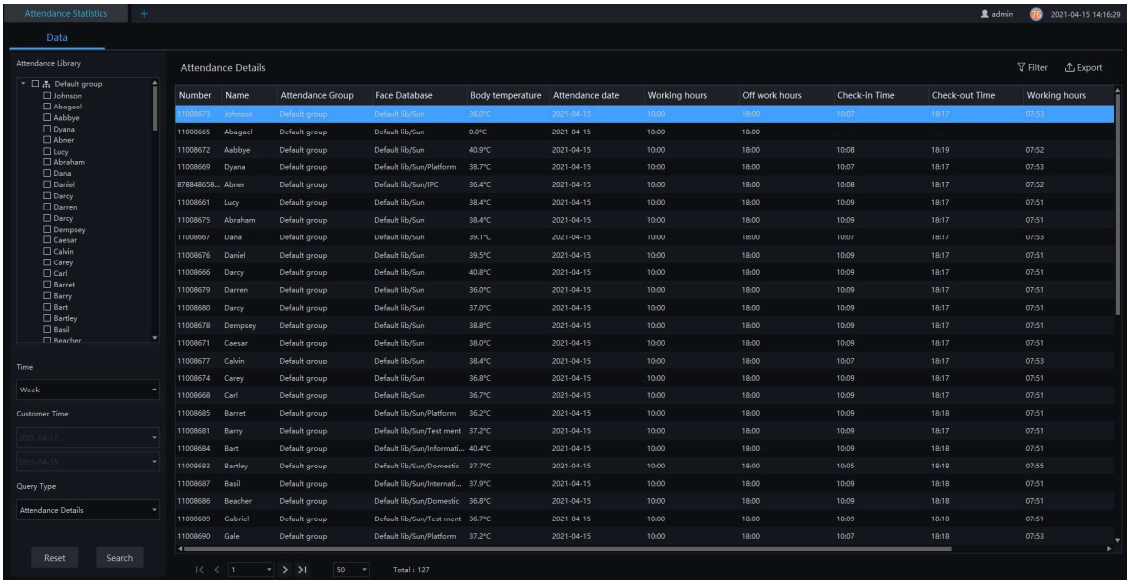


11.3 Attendance Statistics

In the **Attendance Statistics** interface, user may set query conditions to quickly retrieve relevant attendance data. On the main menu page, click 

to view the detailed interface, as shown in Figure 11-18.

Figure 11-18 Attendance data



Procedure:

Step 1 Select **personnel** from the library.
Step 2 Choose a **time range** or set a custom time.
Step 3 Select the **query type**.
Step 4 Click **Search** to display the results.
Step 5 Click **Export** to save the results.

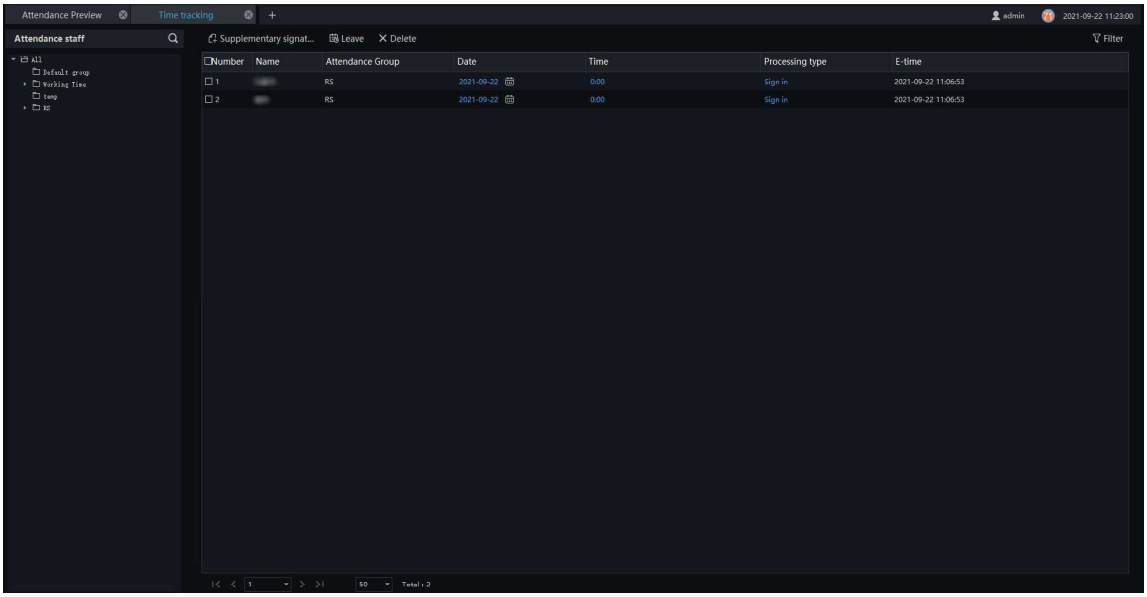
NOTE

- **On-duty time**, **off-duty time**, and **rest time** are defined in the shift management settings.
- The system calculates **working hours** based on these settings and factors in absenteeism.
- If a check-in time falls within an absenteeism window, the system deducts the absenteeism time from the working hours.
- Working hours **cannot** be calculated based solely on the actual clock-in time.

11.4 Time Tracking

The **Time Tracking** interface allows you to perform supplementary sign-ins, manage leave records, and delete attendance records, as shown in Figure 11-19.

Figure 11-19 Time tracking

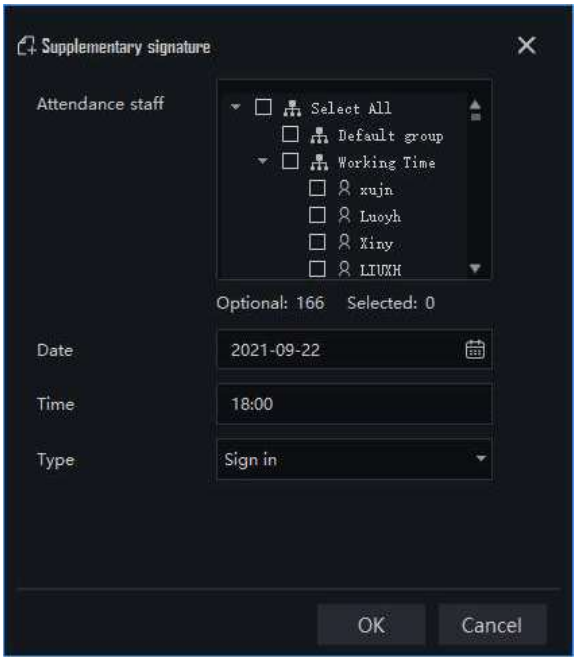


11.4.1 Supplementary Signature

Procedure

Step 1 Click **Supplementary Signature** as shown in Figure 11-20.

Figure 11-20 Supplementary Signature



Step 2 Choose the **staff members** to adjust.

Step 3 Set the **date** and **time**.

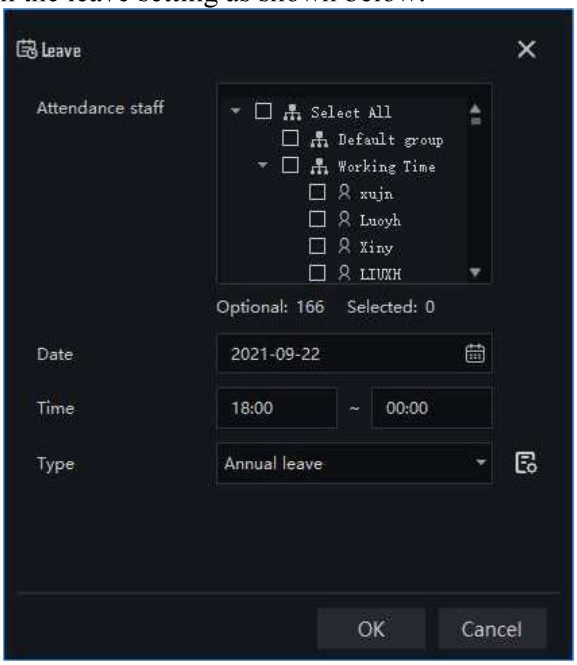
Step 4 Select the **type**: Sign-in, Sign-out

Step 5 Click **OK** to save the settings.

11.4.2 Leave

Procedure

Step 1 Click **Leave** to open the leave setting as shown below.



Step 2 Choose the **staff members**.
Step 3 Set the **date** and **time**.
Step 4 Select the **leave type**: Annual leave, Compensatory leave, Go-out. To add a new leave type, click **Edit**.
Step 5 Click **OK** to save the leave record.

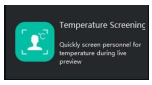
11.4.3 Delete

Procedure

Step 1 Select the **names** of the staff whose records you want to delete.
Step 2 Confirm the deletion in the pop-up window.
Step 3 Once complete, the system will display a **"Delete success"** message.

NOTE
This function is only applicable to Windows system, not for Mac system.

12.1 Temperature Screening

On the main menu page, click **Temperature Screening** 

to access the detailed interface, as shown in Figure 12-1

The **Temperature Screening** interface provides real-time monitoring of body temperatures. It can display two independent interfaces simultaneously, which is useful for managing multiple entrances or channels.

NOTE
This function is only available on **Windows systems** and only supports body temperature cameras.

Figure 12-1 Temperature screening

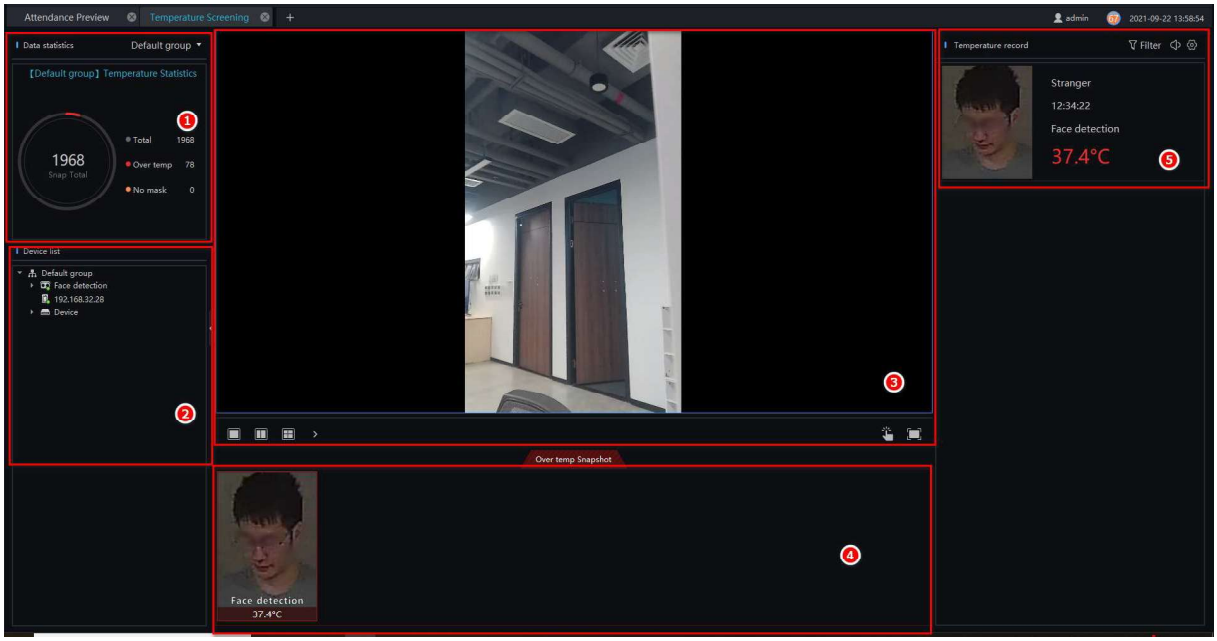


Table 12-1 Temperature screening

No.	Function	Description
1	Data statistics	Displays the number of snapshots, over-temperature cases, and no-mask detections (if enabled in settings).

No.	Function	Description
2	Devices list	Shows the list, status, and groupings of body temperature devices.
3	Live video	User may display live video and choose from multiple split-screen layouts to monitor several cameras at once. Available layouts include 1, 2, 4, 6, 8, 9, 16, 25, 32, or 64 screens — by default, the system uses 2 screens. In **Privacy Mode**, split screens are not required. When in full-screen mode, snapshots will appear as cards, as shown in Figure 12-2. - Click  the **I/O Output** button to manually turn the I/O output on or off. - To exit full-screen mode, click the bottom area of the screen.
4	Over temperature snapshot	Displays snapshots of individuals with abnormal temperatures. Click  to delete all from the display area.
5	Temperature record	The snapshot details include the measured temperature, the device used, and the time the snapshot was taken. User may also enable voice announcements and display face cards in full-screen mode. To filter results, simply check the boxes next to the devices you want to monitor for human body temperature.

Figure 12-2 Full screen face card

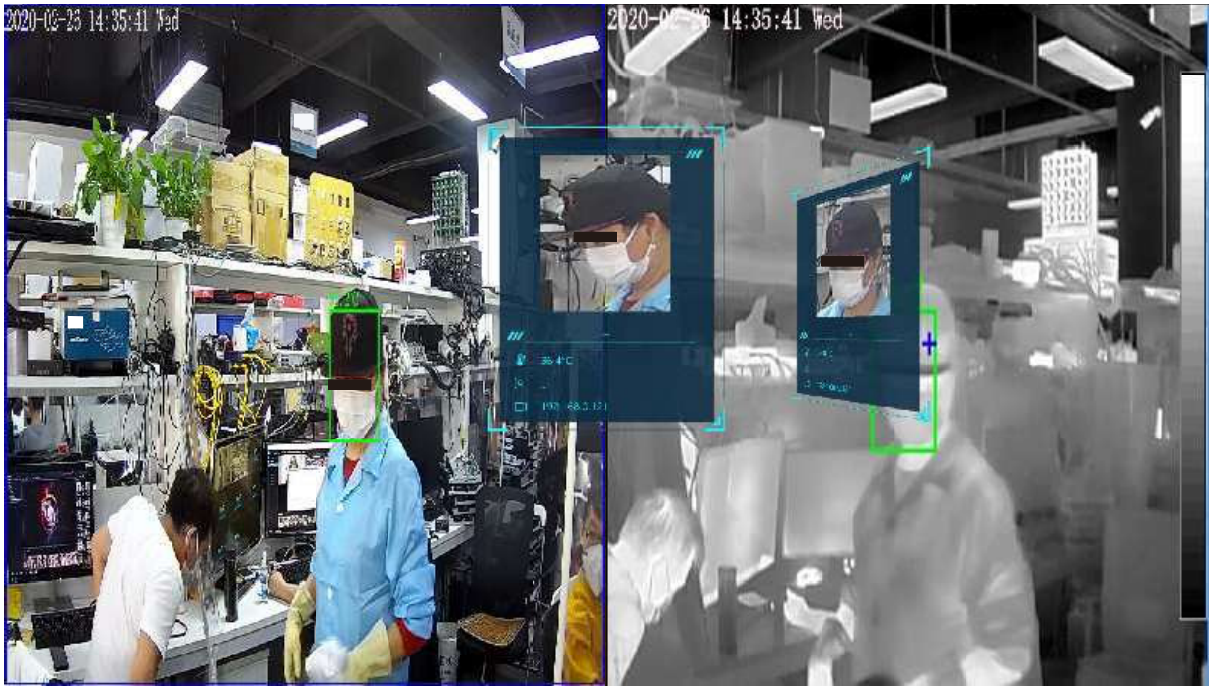
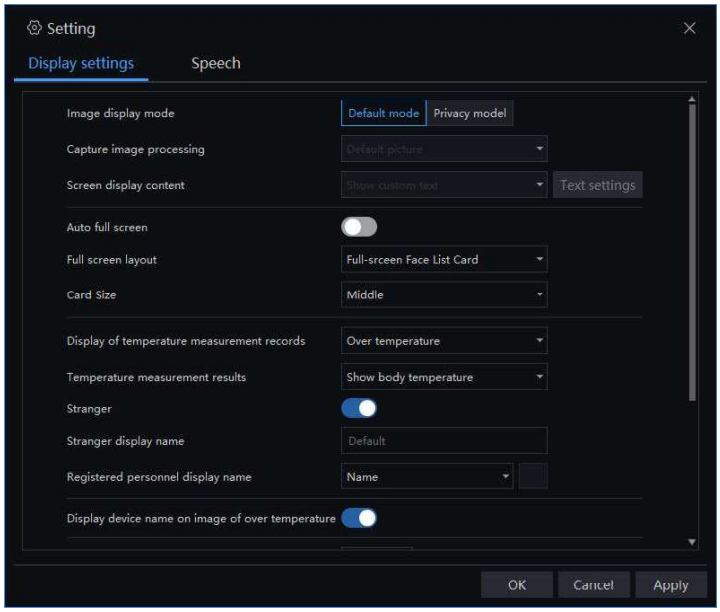


Figure 12-3 Display Setting



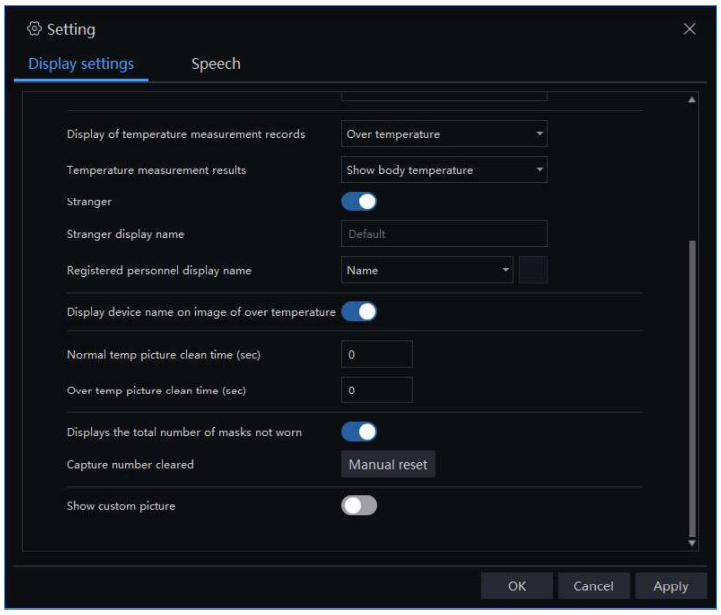
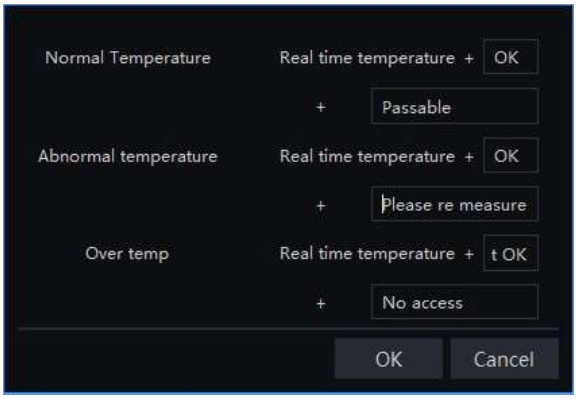


Image display mode: there are two modes, default or privacy mode.
Screen display content: show custom text and live video.
Capture Image processing: Default image, mosaic, or no processing.

Figure 12-4 Text settings



Full screen layout: full-screen face card, full-screen face list card.
Card size: small, medium or large.
Temperature measurement results: Show or hide temperature on display.
Stranger display name: Customize the name shown for unregistered individuals.
Registered personnel display name: Show name, hide name, or show custom time.
Display device name on image of over temperature: Show the capturing device name on over-temperature images.
Normal temp picture clean time: Set auto-clear times for these images.
Over temp picture clean time set time to clean the over temperature picture.
Display the total number of masks not worn: Show the number of no-mask detections.
Capture number cleared: Use Manual Reset to reset counts.
Show custom picture: Enable to display a custom image on-screen.

Figure 12-5 Speech setting of strangers

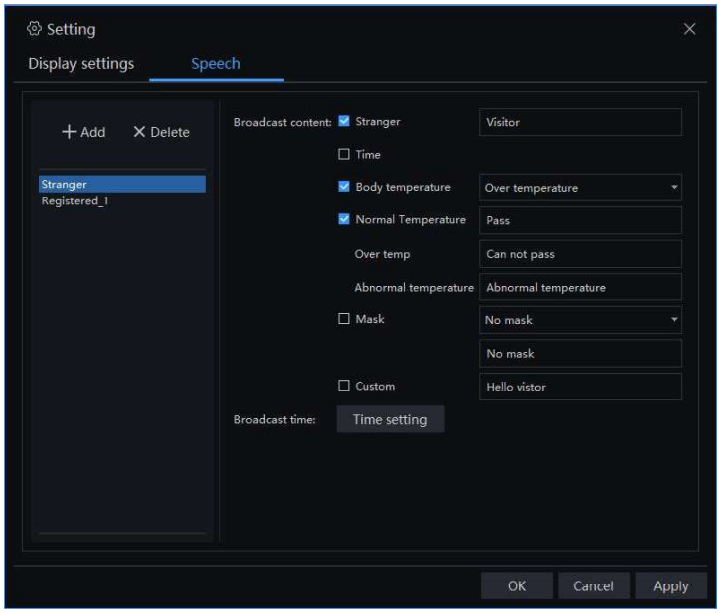
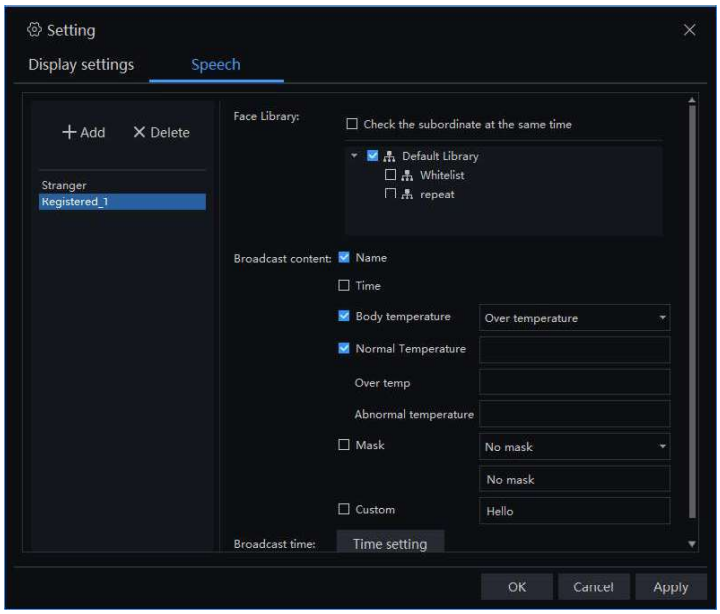
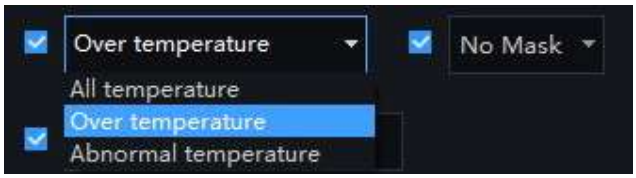


Figure 12-6 Speech Setting of registered



User may choose what the system announces by selecting speech options such as stranger alerts and time notifications.
User may also enable voice alerts for temperature readings and mask-wearing status, as shown in Figure 12-7.



The available display modes include:

- **Default Mode** — shows live video, face snapshots, and temperature readings.
- **Face Privacy Mode** — protects privacy while still displaying important details.
- **Face Privacy Mode (Video)** — shows live video with privacy protection.
- **Body Temperature Mode** — focuses on displaying body temperature data.

.

Figure 12-7 Body temperature privacy mode

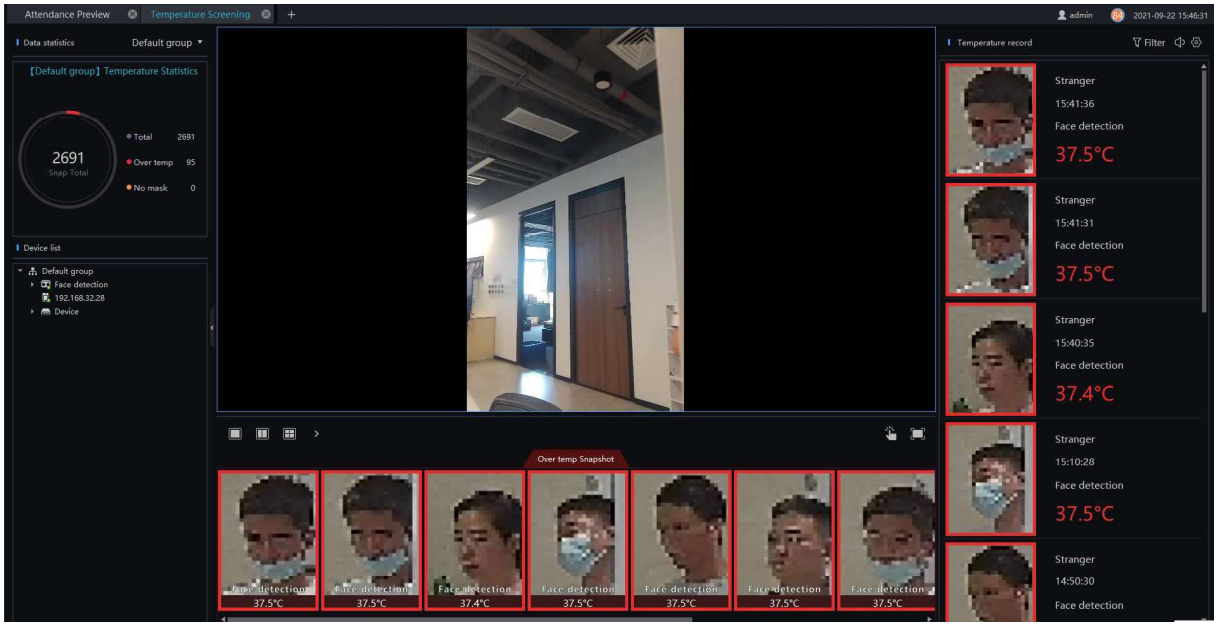


Figure 12-8 Face privacy mode

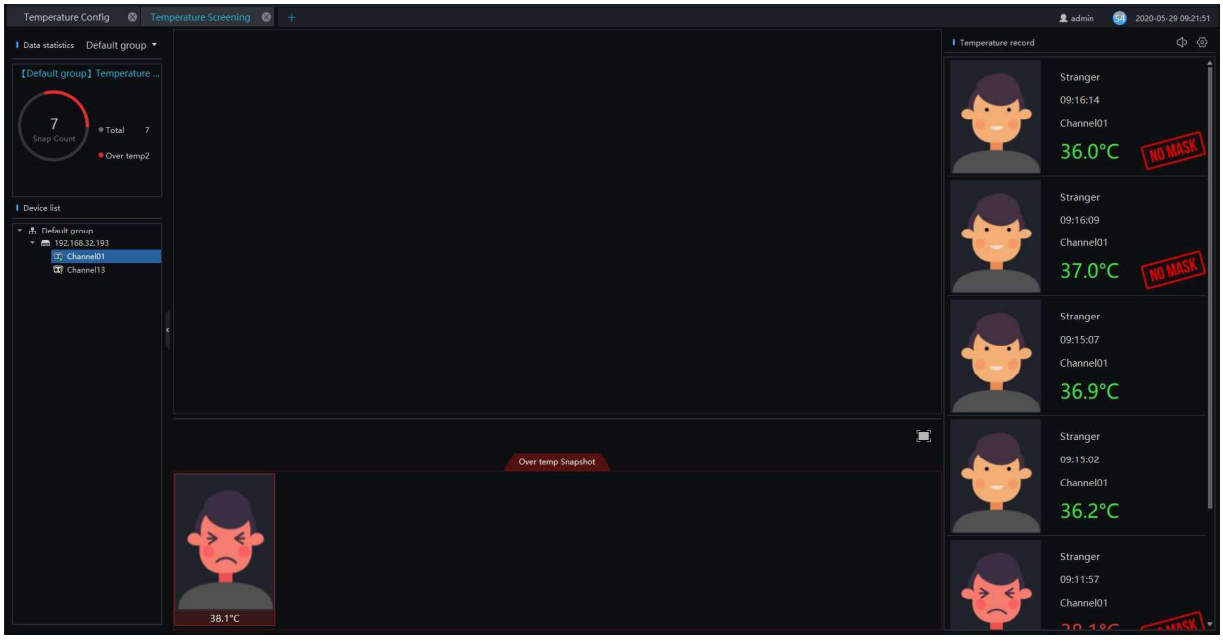
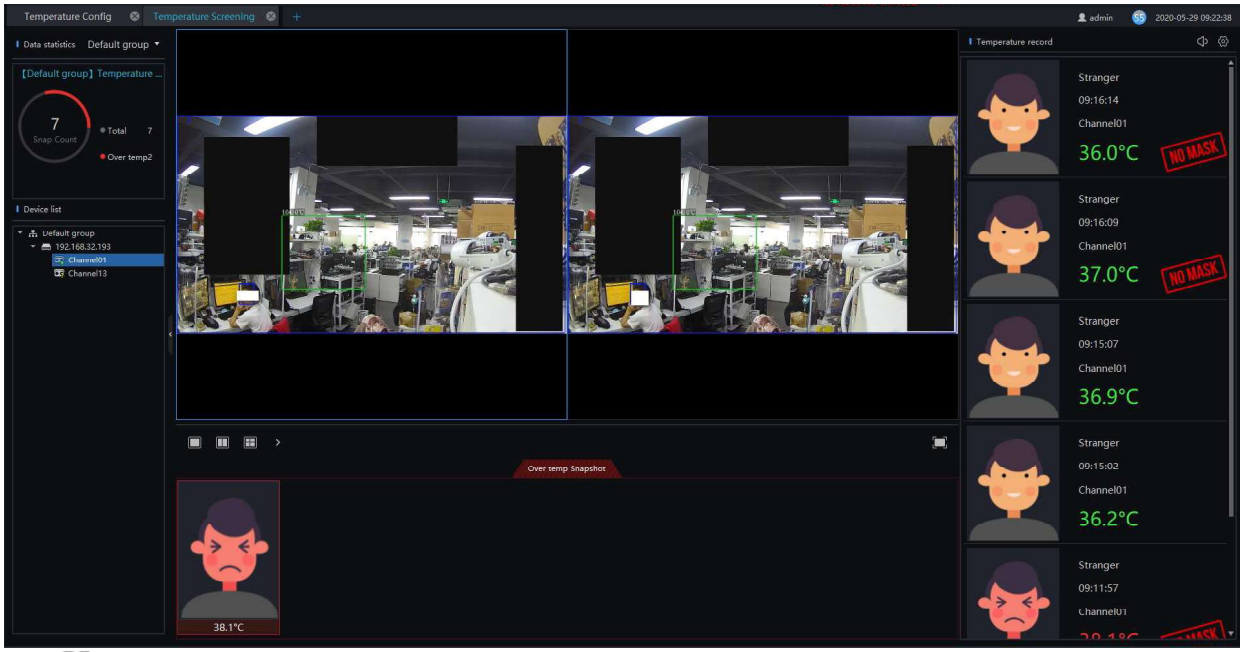


Figure 12-9 Face privacy mode (video)



NOTE

The **No Mask** 

reminder can be enabled in the **Server > CMU > Server Setting** menu. Simply turn on the **Mask Recognition** option.

If this feature is turned off, the **No Mask** alert will not appear.

12.2 Temperature Config

On the main menu page, click 

to open the detailed configuration interface, as shown in Figure 12-10.

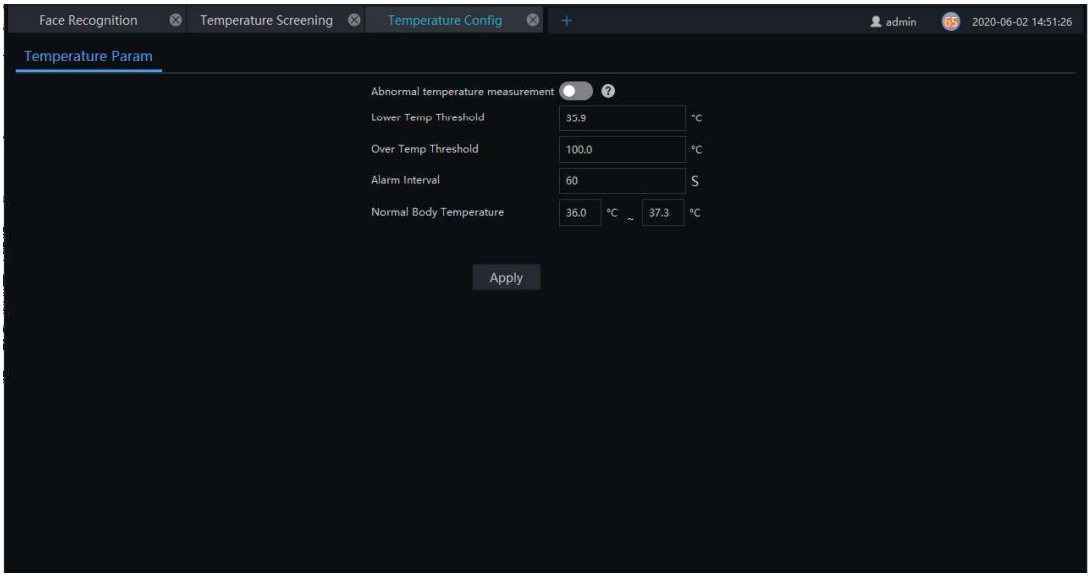
NOTE

This function is only available for **thermal cameras.**

Procedure:

Step 1 Click **Temperature** to enter the temperature configuration settings.
Step 2 Enter the threshold values: **Lower temperature threshold**, **Upper temperature threshold**
Step 3 Click **Save** to apply the settings.

Figure 12-10 Temperature



NOTE

1. **Abnormal temperatures** are those **below the lower threshold** or **above the upper threshold** you set.
2. When **Abnormal Temperature Measurement** is enabled:
   The system will issue an alert if a measured temperature is outside the threshold.
3. When **Abnormal Temperature Measurement Alarm** is disabled:
   Temperatures outside the threshold will **not** be saved or trigger alarms.

12.3 Temperature Search

On the main menu page, click 

to open the detailed interface, as shown in Figure 12-11.

NOTE

This feature is only supported on **body temperature cameras**.

Figure 12-11 Temperature search

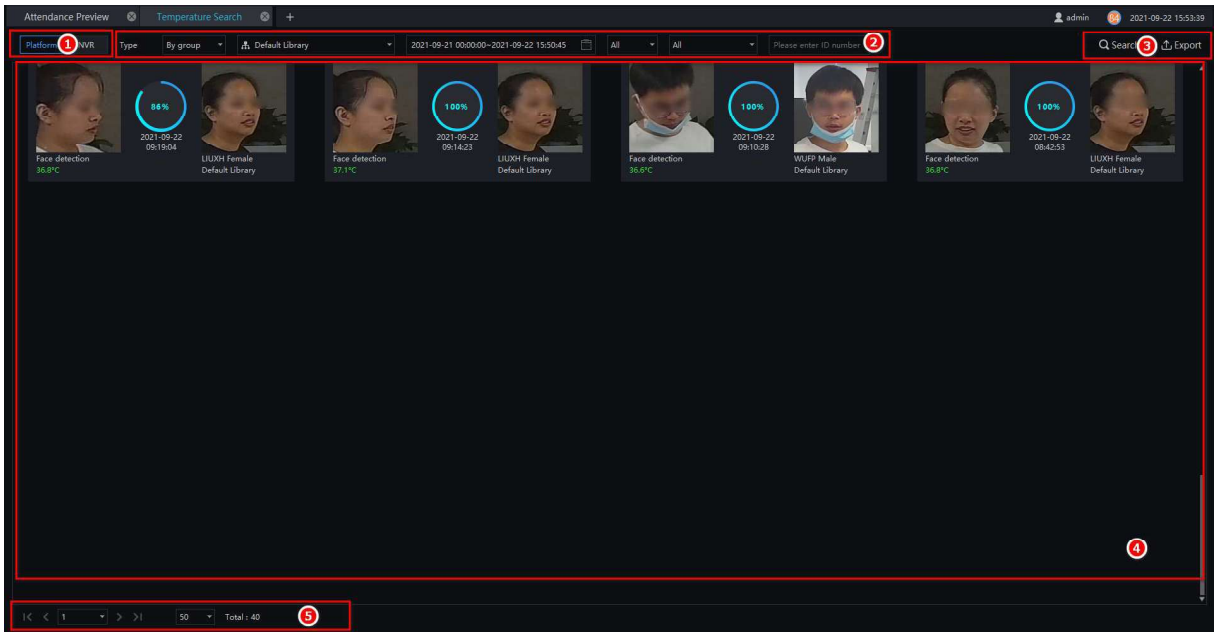
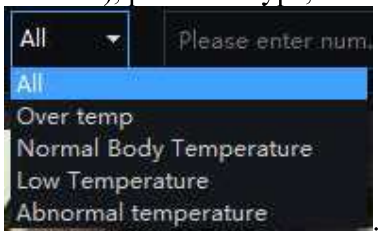


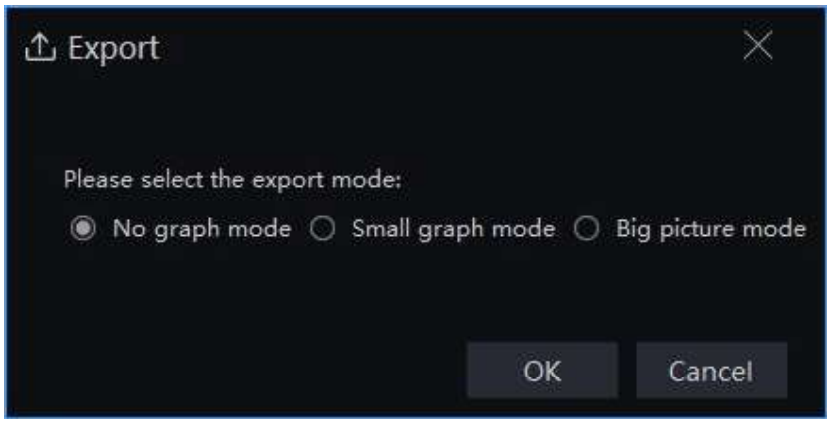
Table 12-3 Temperature search

No.	Function	Description
1	IPC/NVR_DVR	Select the search source: IPC or NVR/DVR.
2	Condition of search	Set search criteria, including device or channel type, start and end time (default is 24 hours), personnel type, and optional library number 
3	Operation	Perform **Search** or **Export** operations.
4	Result of search	Displays the images that match your search criteria.
5	Interface display	Shows the current page with person data and alarm counts; navigate to the next page to view additional alarm information.

Procedure：

Step 1 Select the **type** and **library** for your search.
Step 2 Set the **start time** and **end time**.
Step 3 Choose the **personnel type** and **temperature type**.
Step 4 Click **Search** to view the results.
Step 5 Click **Export** to save the results to a local folder.

Figure 12-12 Mode of exporting



Export Modes

There are three export formats available:

- **No Graph Mode** → Includes only basic information, no images.
- **Small Graph Mode** → Includes face snapshots.
- **Big Picture Mode** → Provides the storage path for panorama images.

Step 6 Click “Search” to view the result.
Step 7 Click “export” to export the result to local folder.

12.4 Health Archives

The **Health Archives** interface lets you track and monitor a person’s health status, check body temperature trends, and review recent over-temperature events.
User may also filter, search, and export health records.

NOTE

This feature supports only **body temperature cameras.**

12.4.1 Archives Manage

Figure 12-13 Health archives

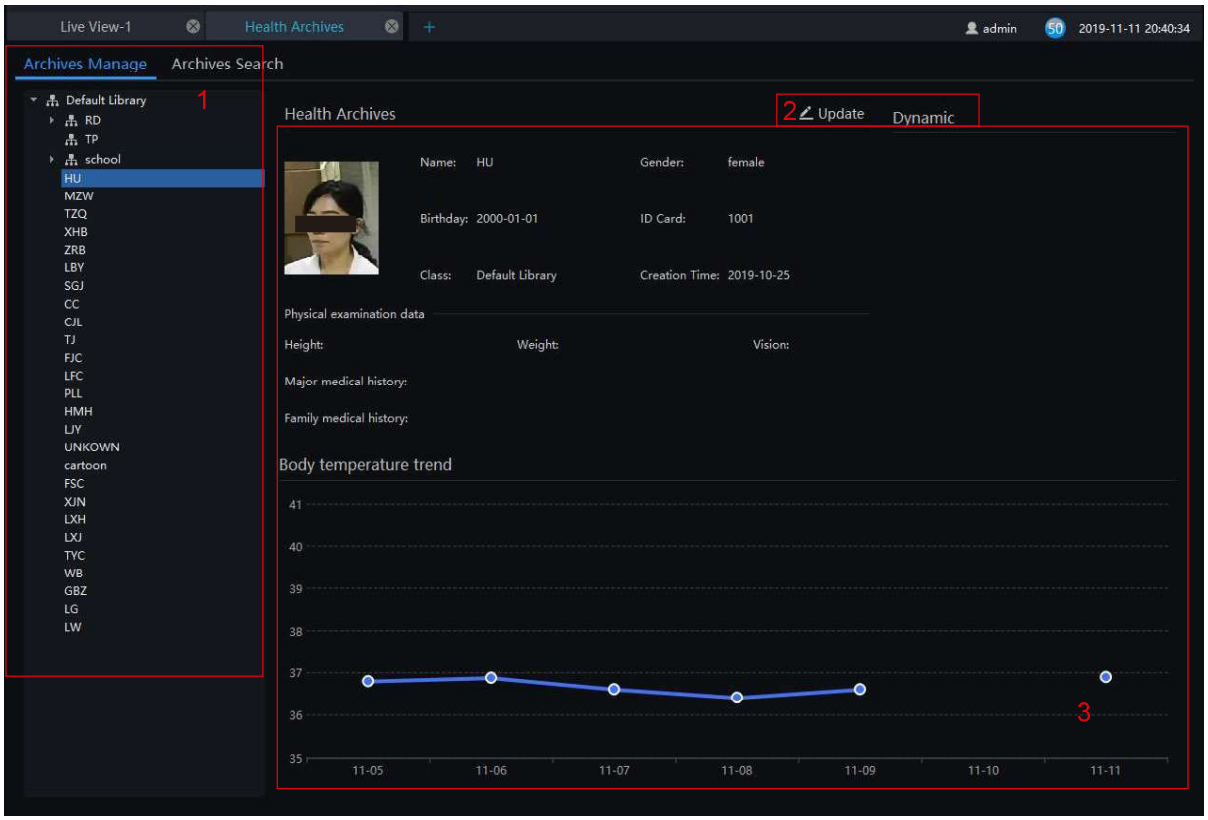


Table 12-4 Health archives

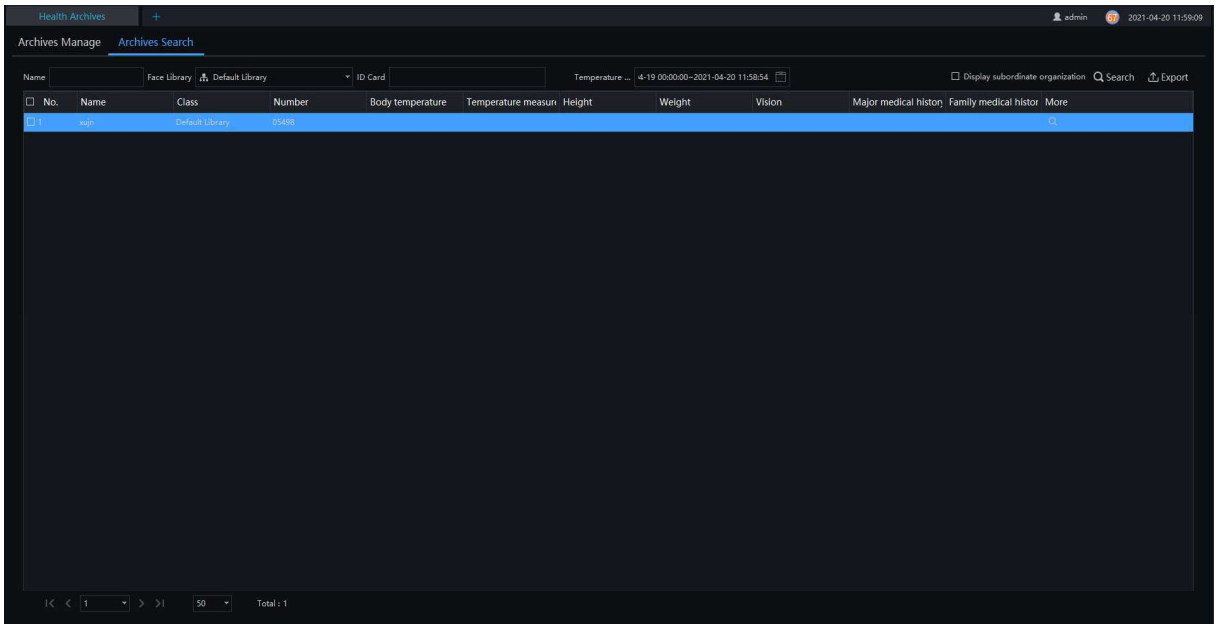
No.	Function	Description
1	Personnel list	Displays the list of people in the face library.
2	Operation	Update personnel information. Click the name to view their dynamic temperature records.
3	Detail information	Shows staff details and temperature trends. Use the mouse scroll wheel to switch to a one-day temperature chart.

12.4.2 Archives Search

Procedure:

Step 1 Enter the **name** of the person.
Step 2 Select the **face library** to search.
Step 3 Click **Search** to look up the archive.
Step 4 The results will appear on the interface.
Step 5 Click **Export** to save the search results to a local folder.

Figure 12-14 Archives search



12.5 Temperature Statistics

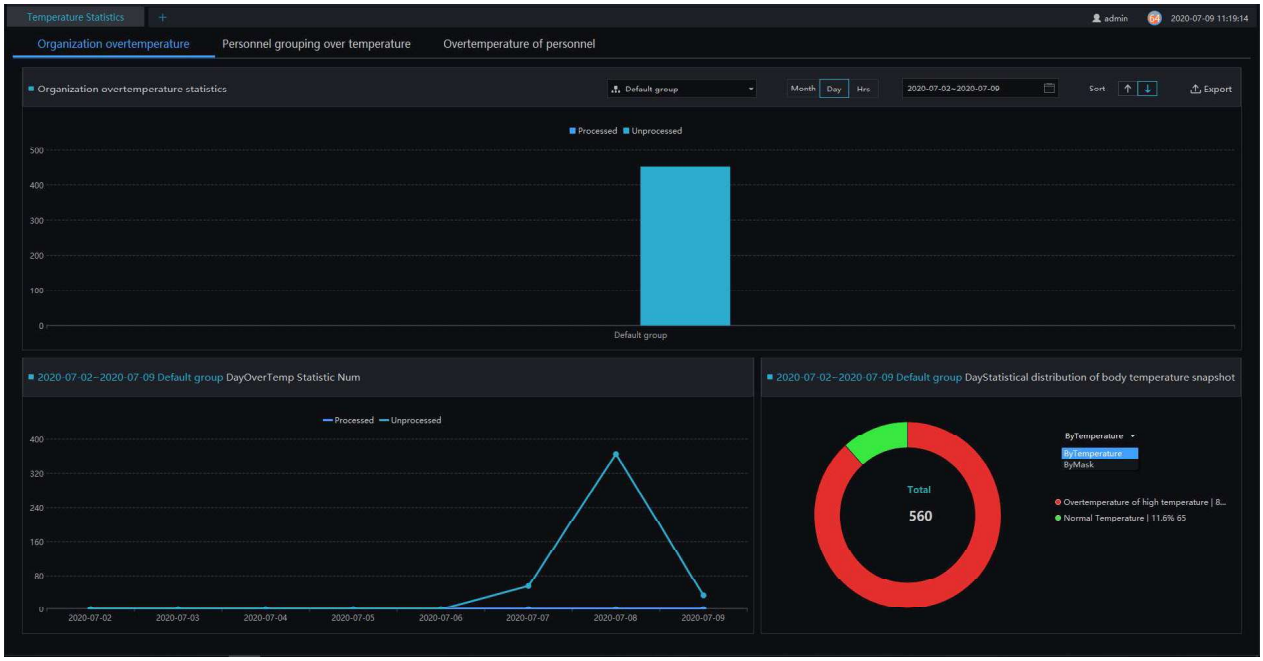
The system can display statistical data 

using pie charts, grouped either by **temperature** or **mask status**, as shown in Figure 12-15.

NOTE

This feature only works with **temperature detection cameras**.
Only processed over-temperature alarms are included in the statistics.

Figure 12-15 Temperature Statistics



The pie chart can show by temperature or mask.

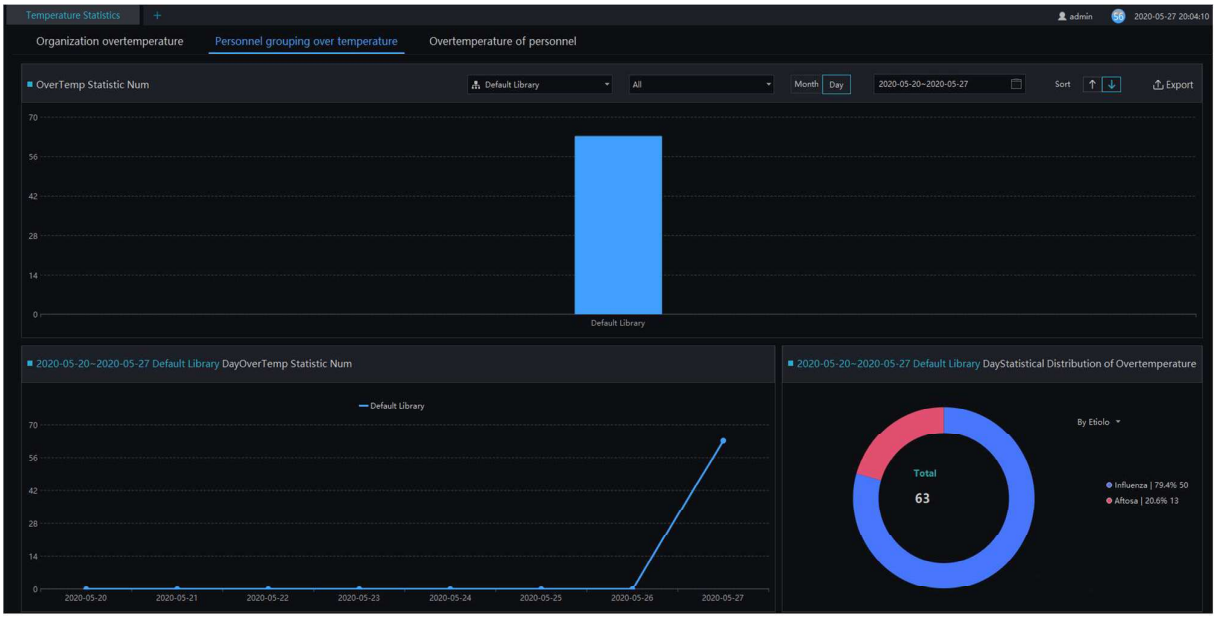
12.5.1 Organization Over Temperature

Procedure:

Step 1 Select the **face database**.
Step 2 Choose the **summary type** (monthly or daily summary).
Step 3 Set the **display sort type**.
Step 4 Click **Export** to save the statistics.

12.5.2 Personnel Grouping Over Temperature

Figure 12-16 Personnel Grouping Over Temperature



Procedure:

Step 1 Select the **face database**.

Step 2 Choose the **summary type** (monthly or daily summary).

Step 3 Set the **display sort type**.

Step 4 Export the results to a local folder.

Step 5 Select the option to view **personnel over-temperature details**.

12.5.3 Over Temperature of Personnel

In the **Over Temperature of Personnel** interface, user may immediately view which personnel have recorded over-temperature events, as shown in Figure 12-17.

Figure 12-17 Person Over Temperature

NOTE

This function is only supported on **Windows systems** and does not work on Mac systems.

13.1 Thermal Image Preview

When thermal cameras are connected to the platform, user may use this interface to view live video, monitor alarm information, and display temperature curves. From the main menu page, click 

access the detailed interface, as shown in Figure 13-1.

Figure 13-1 Thermal imaging preview

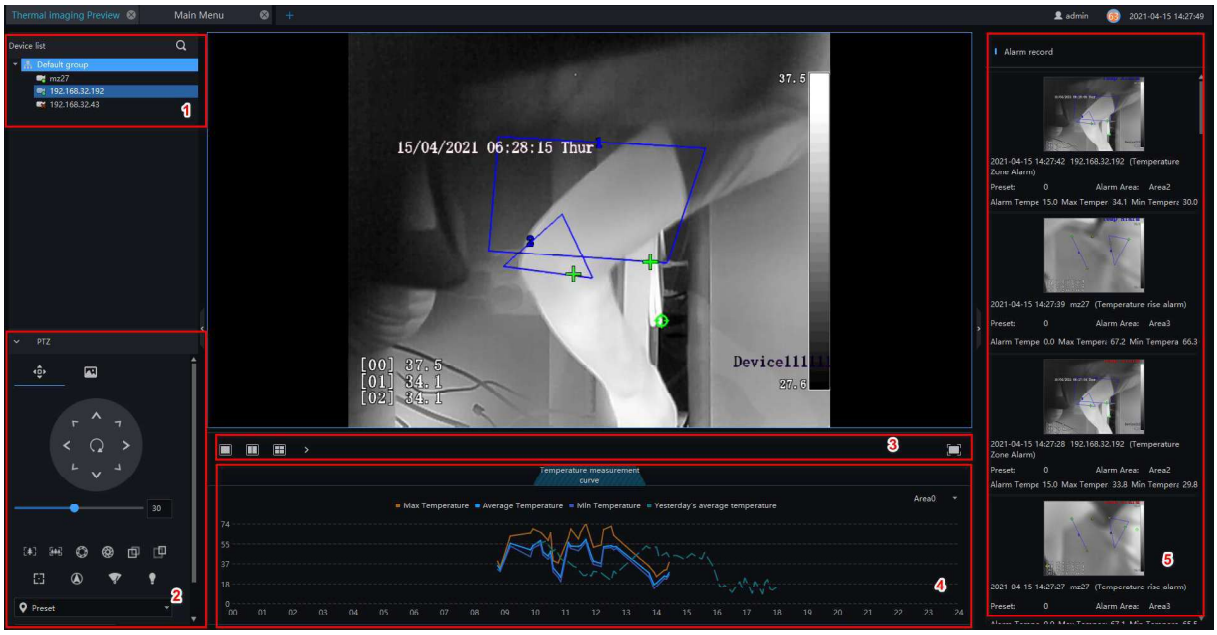


Table 13-1 Thermal imaging preview

No.	Function	Description
1	Device list	Displays the connected thermal devices.

No.	Function	Description
2	PTZ Operation / image setting	If the thermal camera supports PTZ, user may adjust the camera direction, lens, and iris using the PTZ controls. For image settings, user may adjust brightness, sharpness, saturation, and contrast. 
3	Switch windows	Change the live video window layout.
4	Thermal imaging temperature curve	Shows temperature trends throughout the day — including maximum, average, minimum, and yesterday's average temperature.
5	Alarm record	Displays real-time alarm details, including time, IP, location, alarm zone, alarm temperature, max, and min temperature.

13.2 Thermal Image History

In the thermal temperature interface, user may view and search the recorded temperatures from the thermal cameras

NOTE

This feature only supports **temperature detection cameras**.

From the main menu page, click  to access the detailed interface, as shown in Figure 13-2.

Figure 13-2 Thermal image interface

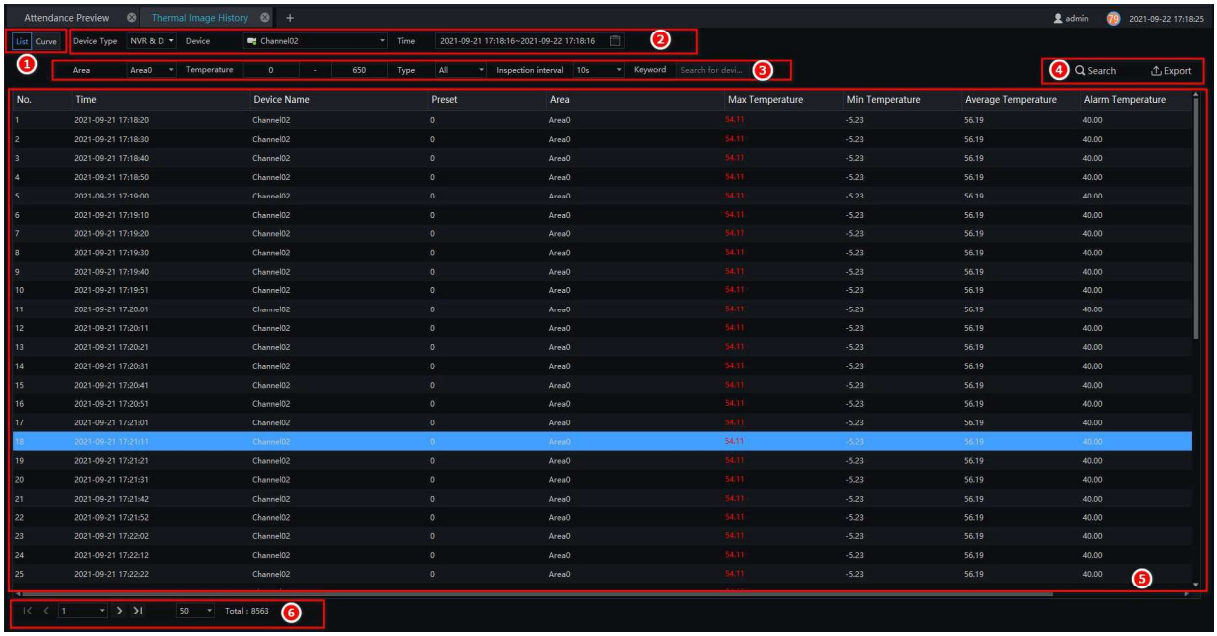


Table 13-2 Temperature alarm

No.	Function	Instruction
1	The showing mode	Choose between list view or curve graph view.
2	IPC/NVR_DVR	Select the data source: IPC or NVR/DVR.
3	Querying condition	Set search filters such as start time, end time, processing status, interval, and keywords.
4	Search	Click **Search** to find temperature alarm records based on the set conditions.
5	Displaying information	View the basic details of each temperature alarm record.
6	Page information	See the page number, number of items per page, and total pages; use navigation to move between pages.

Procedure:

Step 1 Select the **group or organization** to search.

Step 2 Set the **start and end time** and choose the **processing status**.

Step 3 Click **Search** to display the temperature alarm records.

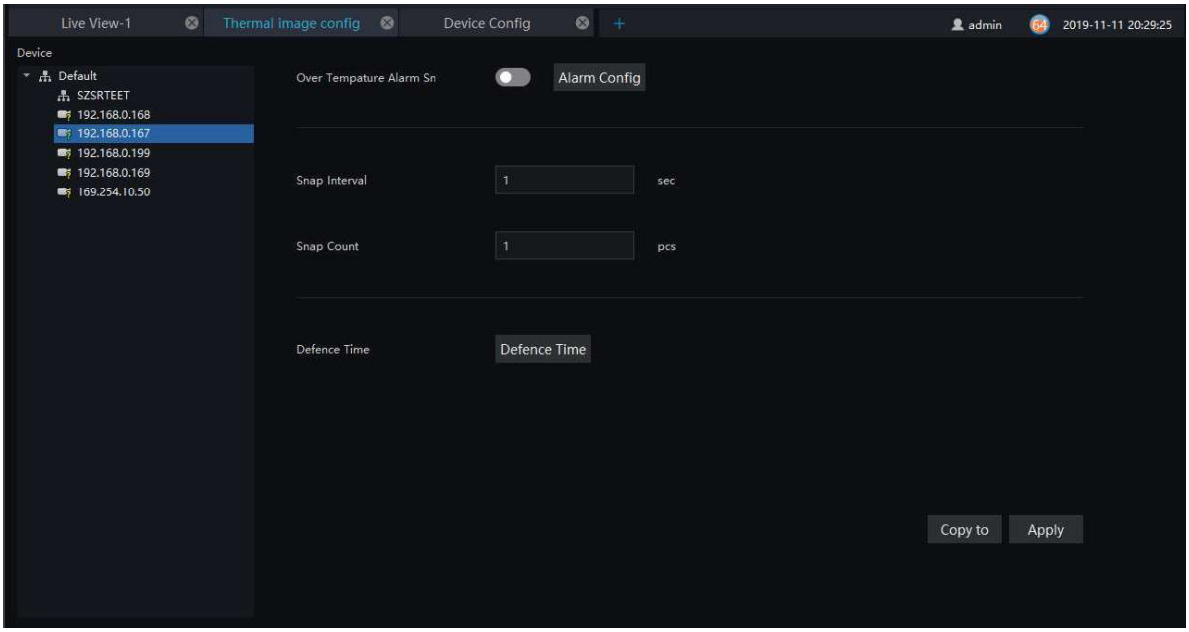
13.3 Thermal Image Config

From the main menu page, click  to open the detailed configuration interface, as shown in Figure 13-3.

NOTE

This function is only available for **thermal cameras**.

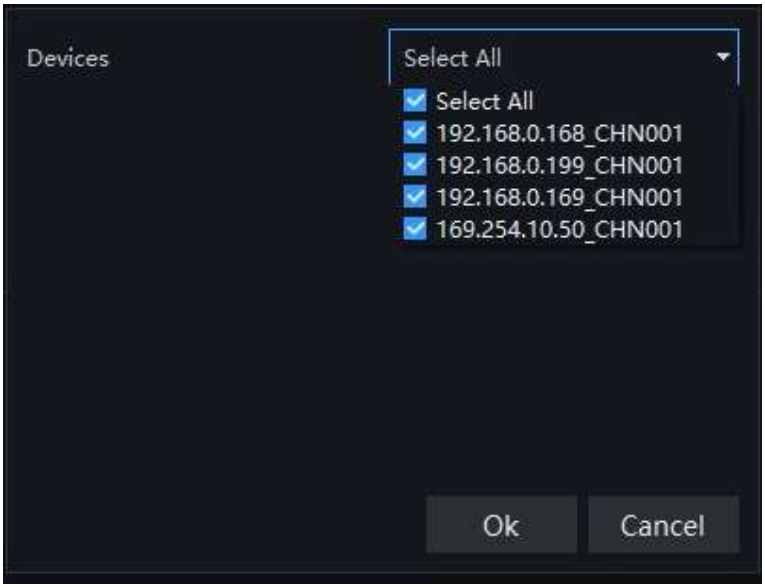
Figure 13-3 Thermal image configuration



Procedure:

Step 1 In the thermal imaging device list, **select the camera** you want to configure.
Step 2 **Enable over-temperature alarm capture**.
Step 3 Set the **capture interval** (how often snapshots are taken).
Step 4 Set the **number of captures** to be taken when an alarm is triggered.
Step 5 Set the **arming time**: Use the mouse to adjust the time range directly on the interface, Or select **All** to arm the camera for the entire day.
Step 6 Click **Copy to** if you want to apply these settings to other cameras.
Step 7 Click **OK** to save your settings, as shown in Figure 13-4

Figure 13-4 Copy to



13.4 Thermal Image Search

At this page, user may search the body temperature from the recording.

NOTE

This function only supports **body temperature detection cameras**.

From the main menu page, click  to open the detailed interface, as shown in Figure 13-5.

Figure 13-5 Thermal image interface

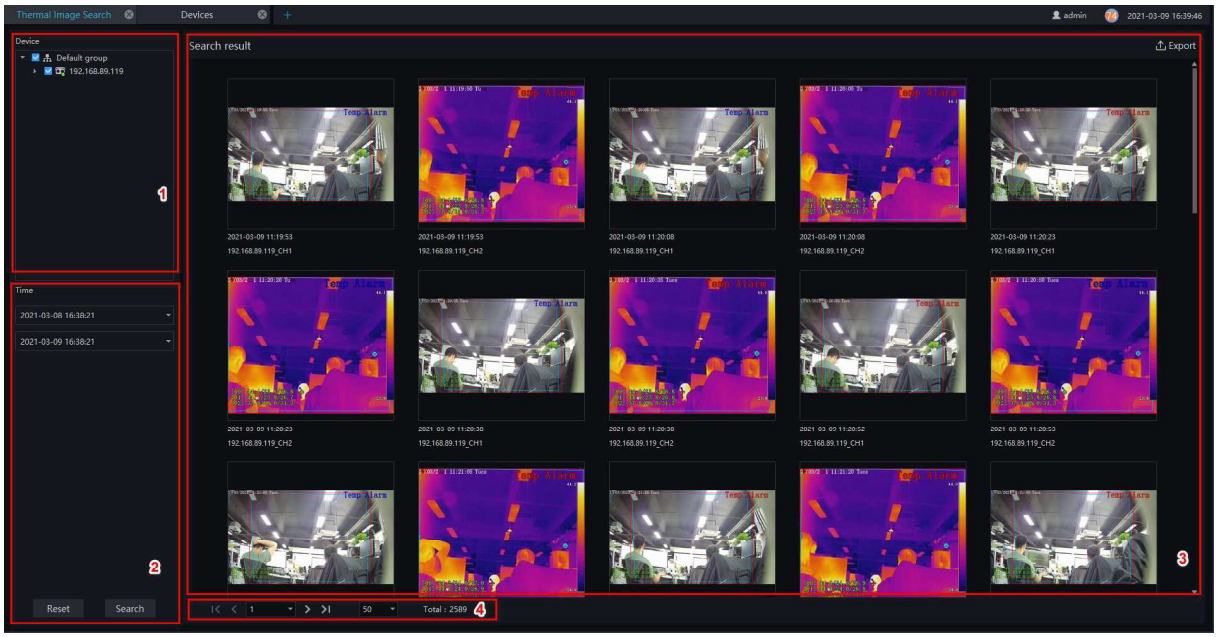


Table 13-4 Temperature search

No.	Function	Description
1	Device list	Displays all thermal imaging devices.
2	Search time	Set the **start** and **end time** for your search.
3	Displaying information	Shows the search results.
4	Page information	Displays the current page, items per page, and total pages; allows switching between pages.

Procedure:

Step 1 Select the **devices** you want to search.

Step 2 Set the **start** and **end time** for the search. (The default range is the past 24 hours.)

Step 3 Click **Search** to display the temperature data.

Step 4 To save the results, click **Export** and save them to your local folder.

13.5 Thermal Imaging Inspection

In the thermal imaging inspection interface, user may set up inspection plans, manage the patrol calendar, and view inspection records.

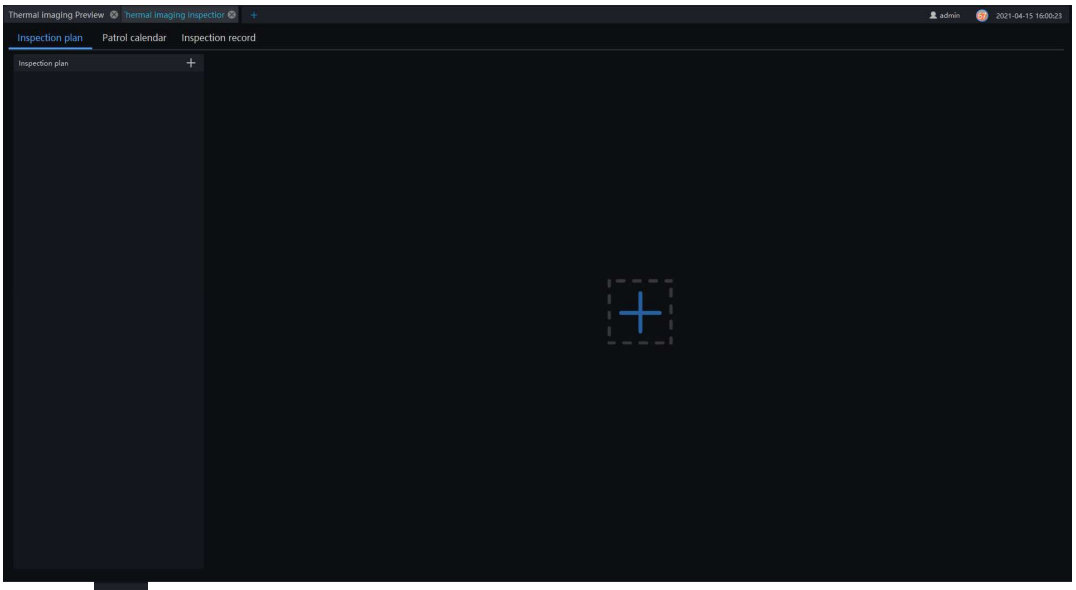
NOTE

This feature is supported only on **thermal imaging cameras.**

From the main menu page, click  to open the detailed interface, as shown in Figure 13-6.

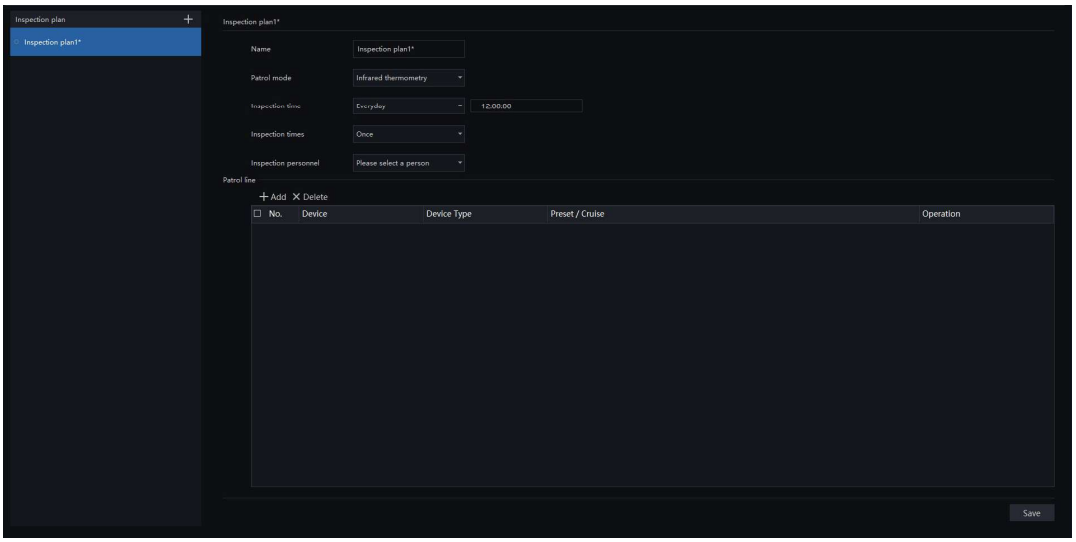
13.5.1 Inspection Plan

Figure 13-6 Thermal imaging inspector



Step 1 Click  to create a new inspection plan, as shown in Figure 13-7

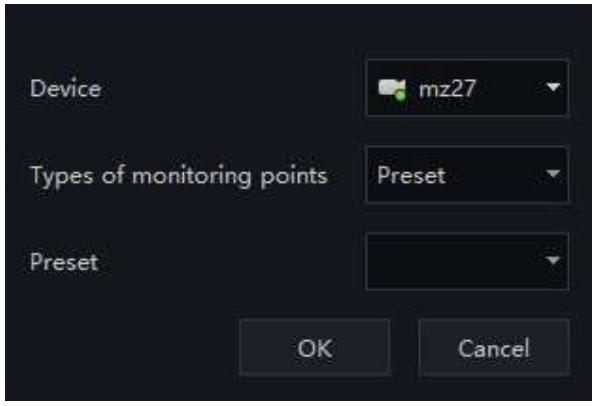
Figure 13-7 Add a new inspection plan



Step 2 Enter the **plan name**.

Step 3 Choose the **patrol mode** and **inspection time** (including detailed times).
Step 4 Set how often inspections should occur: Once, Twice, Three times
Step 5 Select **inspection personnel** from the face library.
Step 6 Click **Add Patrol Line** to open the patrol line settings, as shown in Figure 13-8.
Step 7 Choose the **thermal device** from the dropdown list.
Step 8 Select the **type of monitoring points** (preset or tour).
Step 9 Click **OK** to finish adding the patrol line. User may add multiple patrol lines as needed, as shown in Figure 13-8.
Step 10 User may set up to **50 inspection plans**.

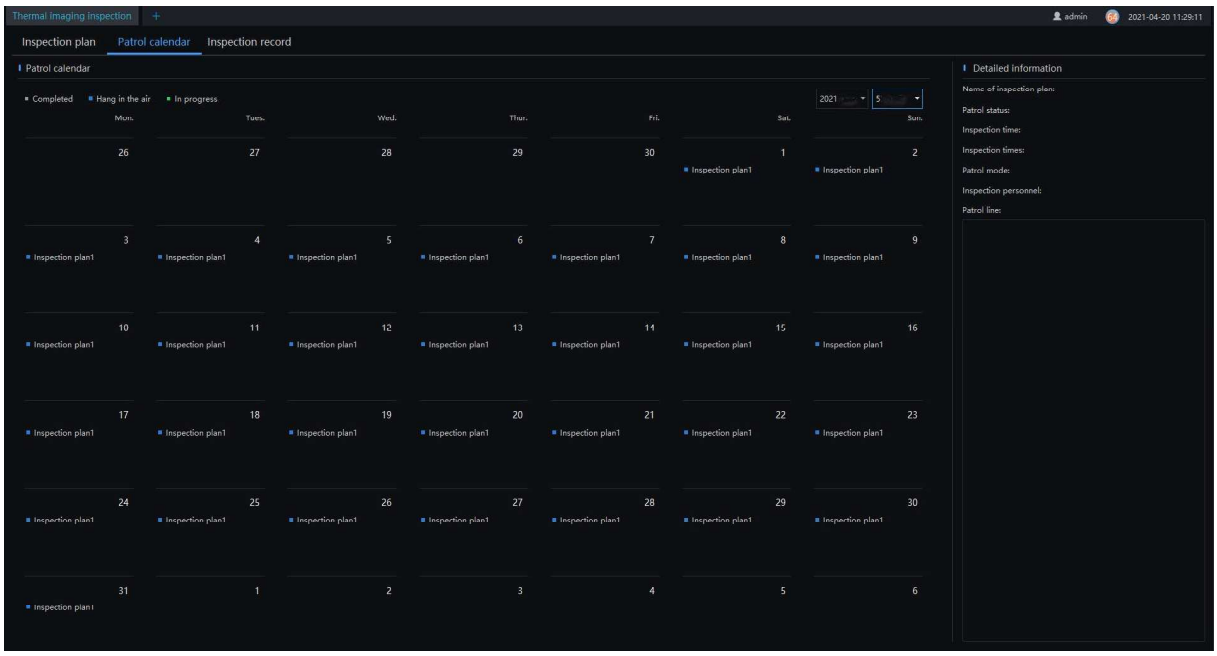
Figure 13-8 Add a new patrol line



13.5.2 Patrol Calendar

View the patrol schedule in the **calendar view**, as shown in Figure 13-9.

Figure 13-9 Patrol calendar



Click on a plan in the calendar to see its detailed information in the right panel.

13.5.3 Inspection Record

Step 1 Use the **filter** to search for inspection records.
Step 2 Detailed inspection records will be displayed, as show in in Figure 13-10.
Step 3 Select a record to view details such as: Identification type, Point name, Recognition results, Identification time, Inspection results, Collected information
Step 4 Click the **collection picture** to view the alarm snapshot, as shown in Figure 13-11.

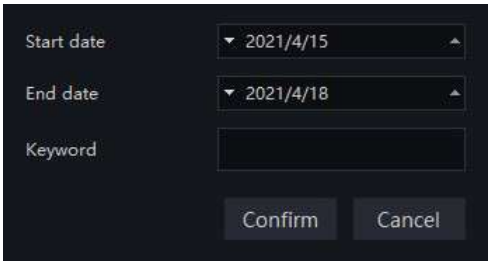


Figure 13-10 Inspection Record

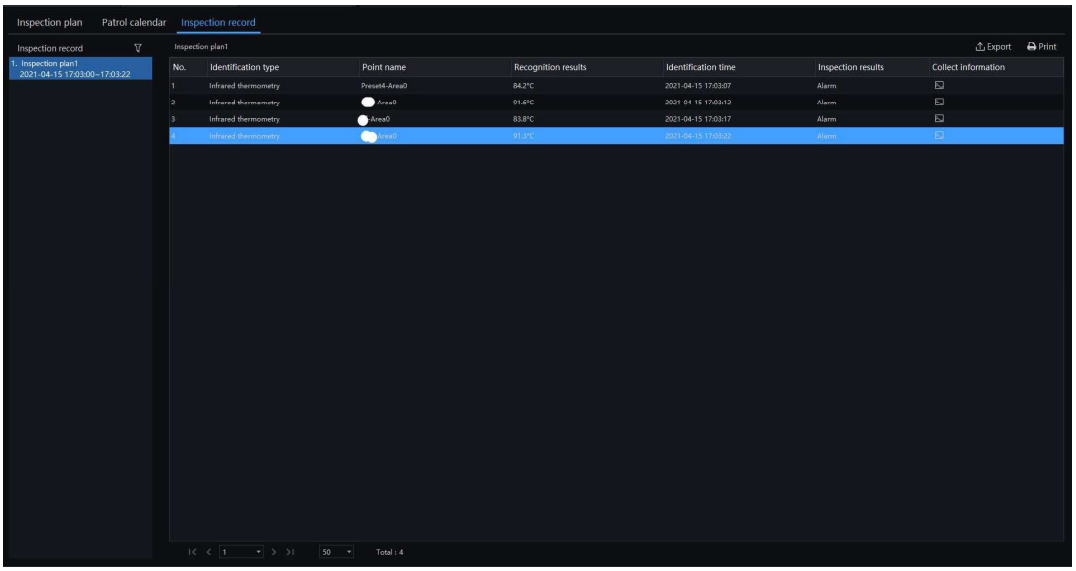
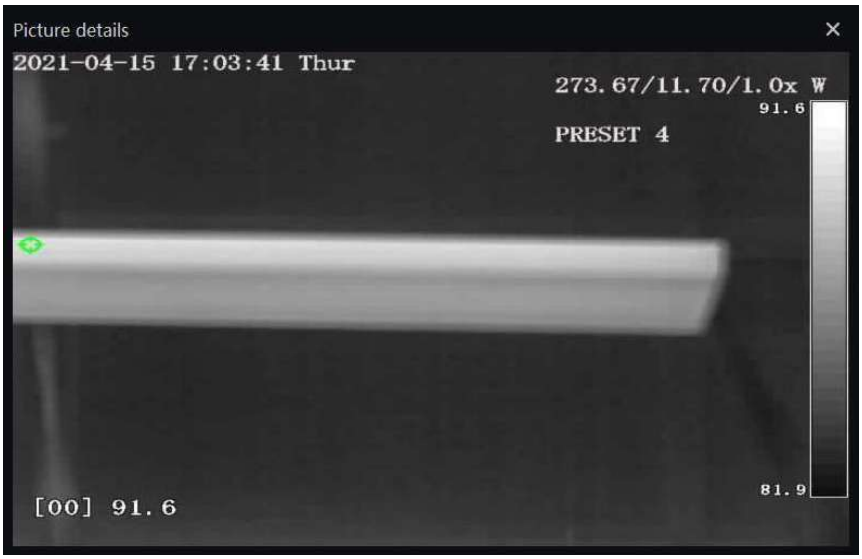


Figure 13-11 Picture details



14 Access Control

NOTE

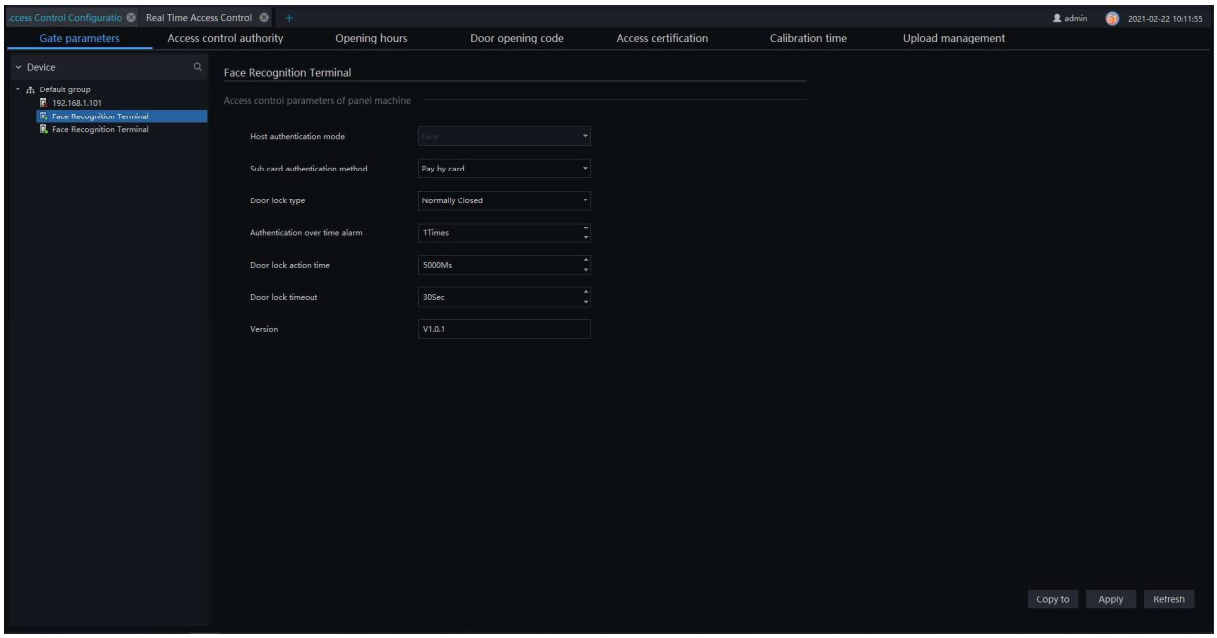
This This feature only works with access control equipment from this system (such as access control panel machines and face recognition terminals) and is supported **only on Windows systems**, not on Mac systems.

14.1 Access Control Configuration

On the main menu, click  icon to open the detailed interface, as shown in Figure 14-1. All setting parameters must be uploaded to the device, the device will write these parameters.

14.1.1 Gate Parameters

Figure 14-1 Gate parameters



User may set gate parameters for the connected access control devices, including:

- **Basic Info**: Door name, relay working mode.
- **Door Settings**: Hold time, overtime reminder, overtime alarm, maximum open time.
- **Exit Switch**: Set to stay open when the exit switch is pressed for 5 seconds; configure time periods.
- **Card Reader**: Manage reader settings, keyboard functions, entry code, and exit code.

If you have multiple devices of the same type, user may **copy the settings** to other devices.

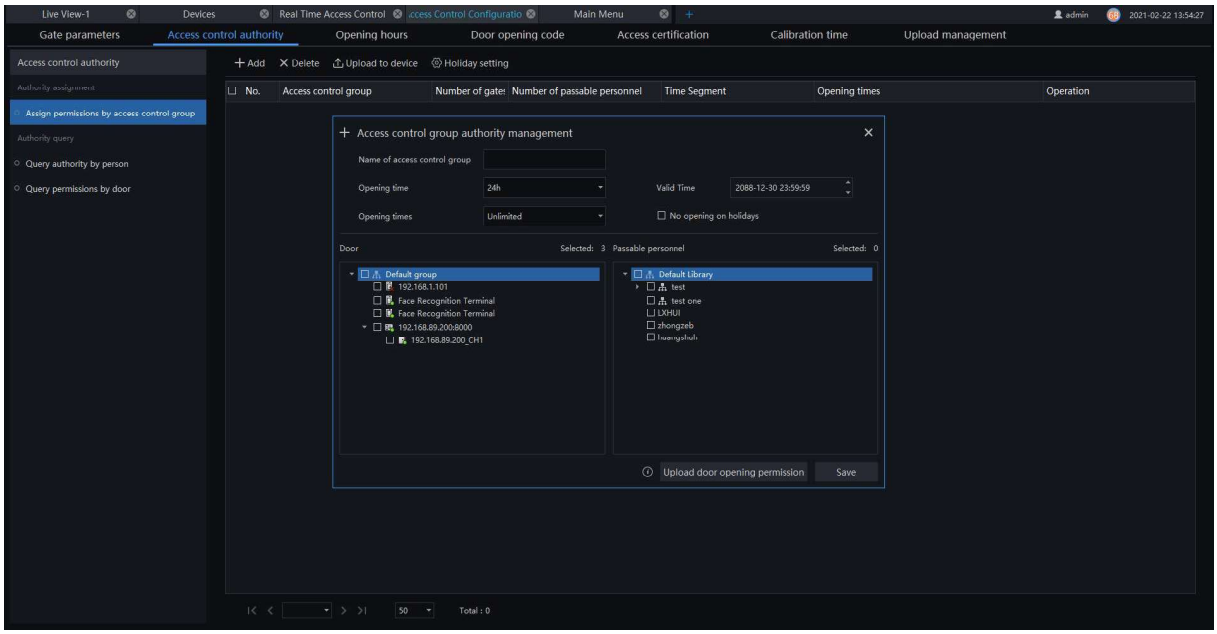
14.1.2 Access Control Authority

From the **Access Control Configuration** page, select **Access Control Authority**, as shown in Figure 14-2.

This section includes**: Query Authority by Person** and **Query Parameters by Door**.

14.1.2.1 Assign Permissions by access control group

Figure 14-2 Access control group authority management

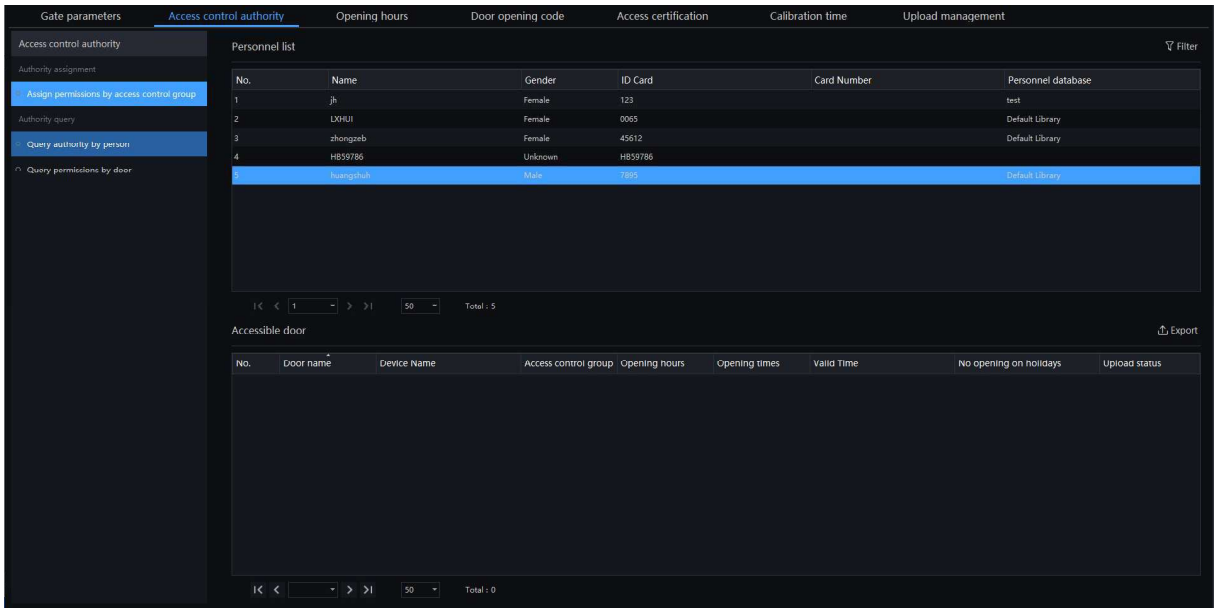


Step 1 Click **Add** to create a control group.
Step 2 Set the group name, opening time, valid time, holiday permissions, and allowed opening times.
Step 3 Select the doors and assign personnel.

14.1.2.2 Query Authority by Person

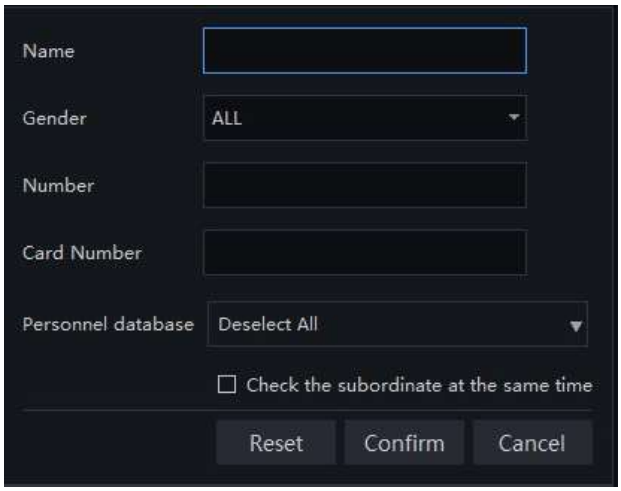
Step 1 Click **Query Authority by Person**.
Step 2 Use the filter to search for user permissions, as shown in Figure 14-3.

Figure 14-3 Query authority by person



User can set the filter to query accurately, as shown in Figure 14-4.

Figure 14-4 Filter



14.1.2.3 Query Authority by Door

Step 1 Click **Query Authority by Door**.
Step 2 Use the filter to search door-specific permissions, as shown in Figure 14-5

Figure 14-5 Query permissions by door

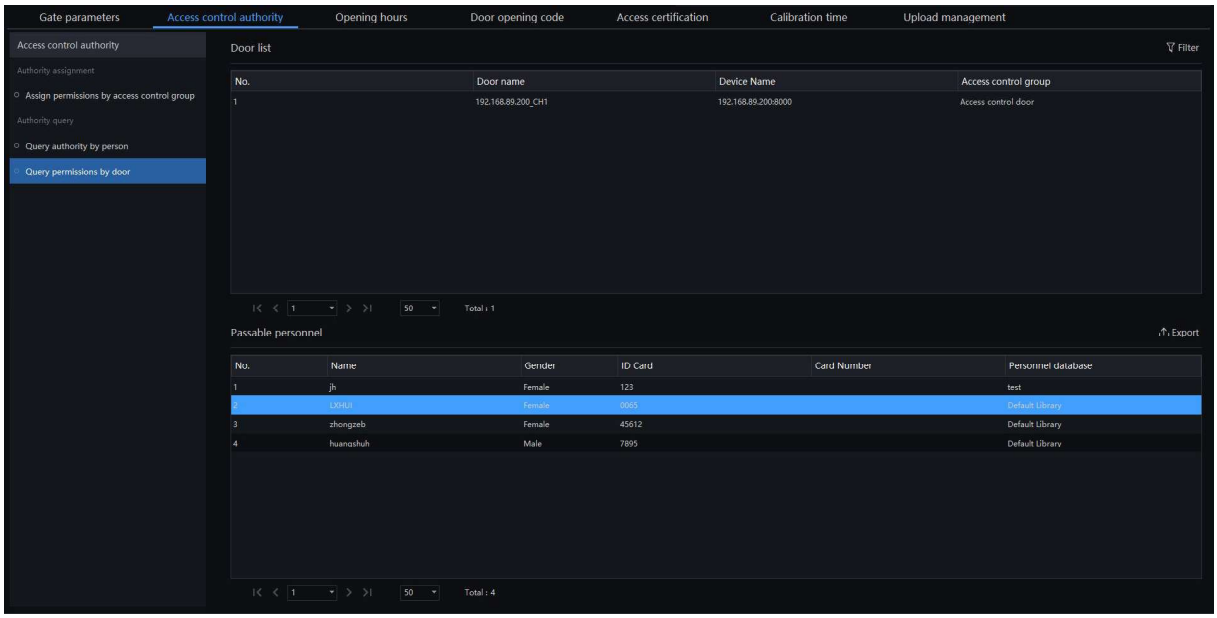
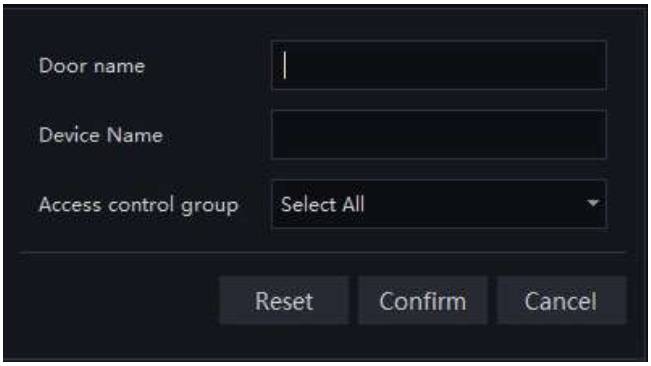


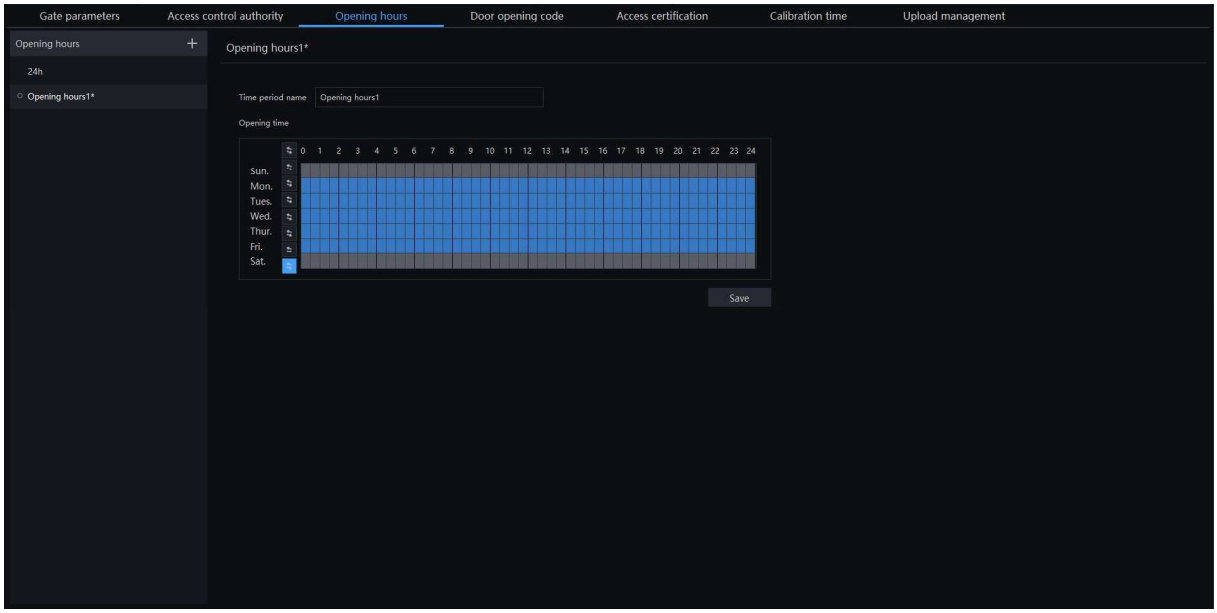
Figure 14-6 Filter



14.1.3 Opening Hours

Step 1 Select **Opening Hours**. Default rule: 24/7 access.
Step 2 Add a new time period by setting its name and the opening times.
Step 3 Click **Save** to save your settings, as shown in Figure 14-7.

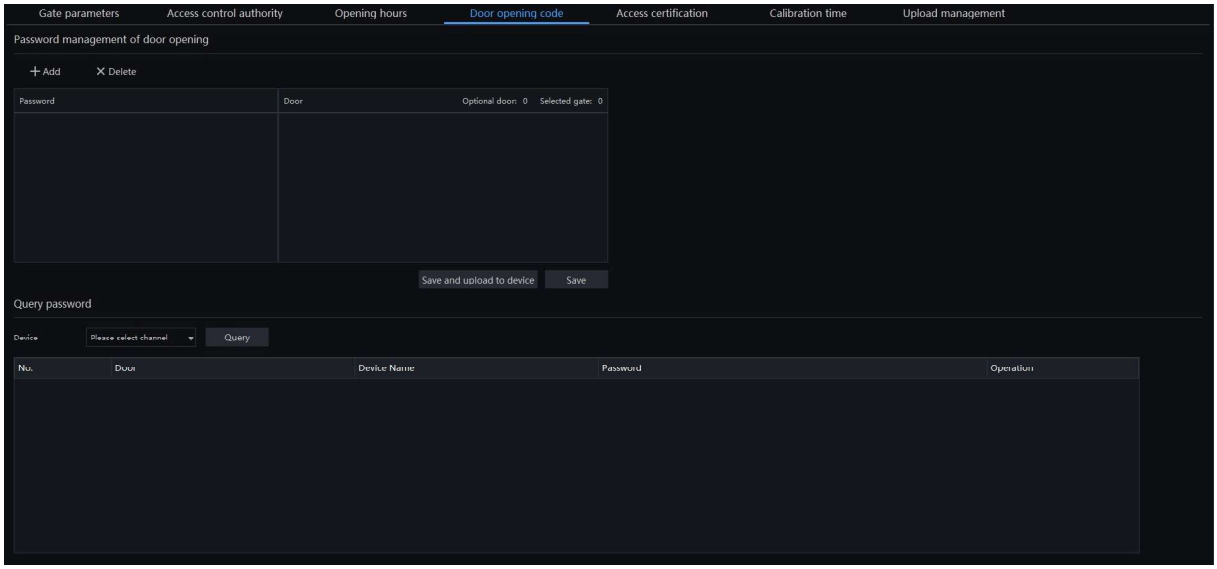
Figure 14-7 Opening hours

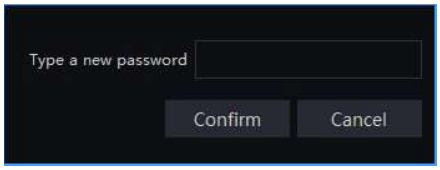


14.1.4 Door Opening Code

Step 1 Select **Door Opening Code**.
Step 2 Click **Add** to create a door password.
Step 3 Choose the device where the password will apply and press **Confirm**, as shown in Figure 14-8.

Figure 14-8 Door open code

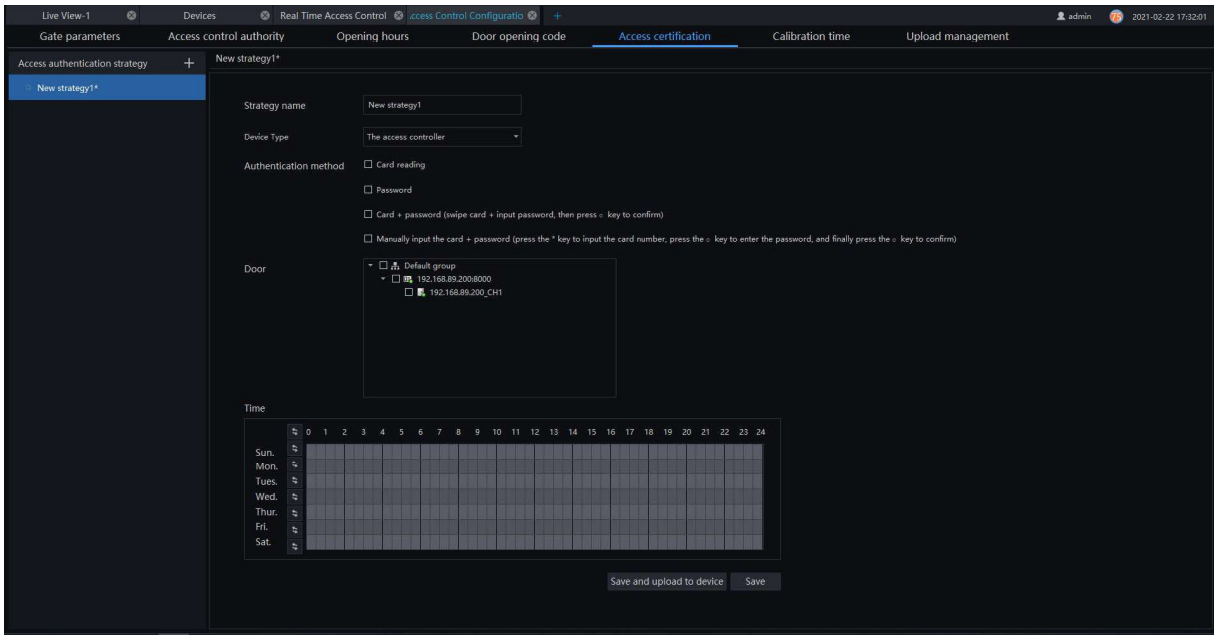




14.1.5 Access Certification

Step 1 Select **Access Certification**.
Step 2 Click **Add** to create a new authentication policy.
Step 3 Set the strategy name, device type, authentication method, door, and time, as shown in Figure 14-9.

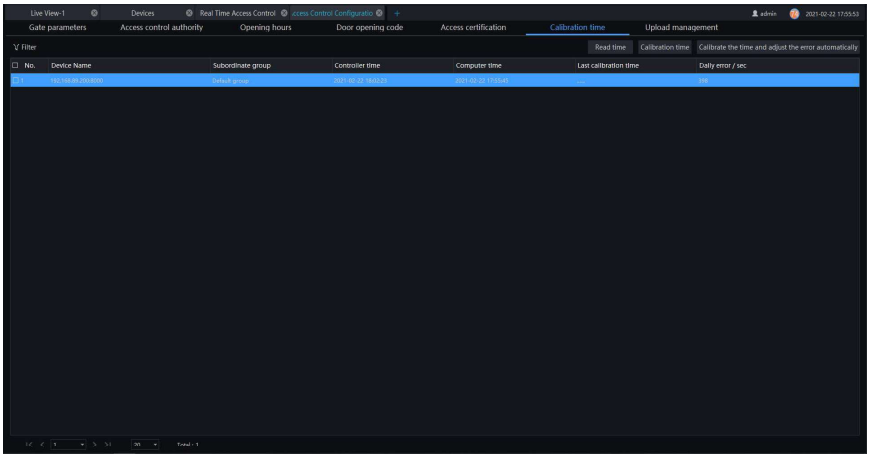
Figure 14-9 Access certification



14.1.6 Calibration Time

Step 1 Select **Calibration Time**.
Step 2 View device details, including: Device name, group, controller time, computer time, last calibration, daily time error, as shown in Figure 14-10.
Step 3 Click **Calibrate the time and adjust the error automatically** to sync times, as shown in Figure 14-11.
Step 4 A status window will appear, as shown in Figure 14-10. Figure 14-12.

Figure 14-10 Calibration Time



Calibration time means the access control devices are synchronized with the platform server, making it easier for you to manage them. User may use filters to view detailed information, such as device name, group, controller time, computer time, last calibration time, and daily time error (in seconds).

Figure 14-11 Calibration time – upload to device

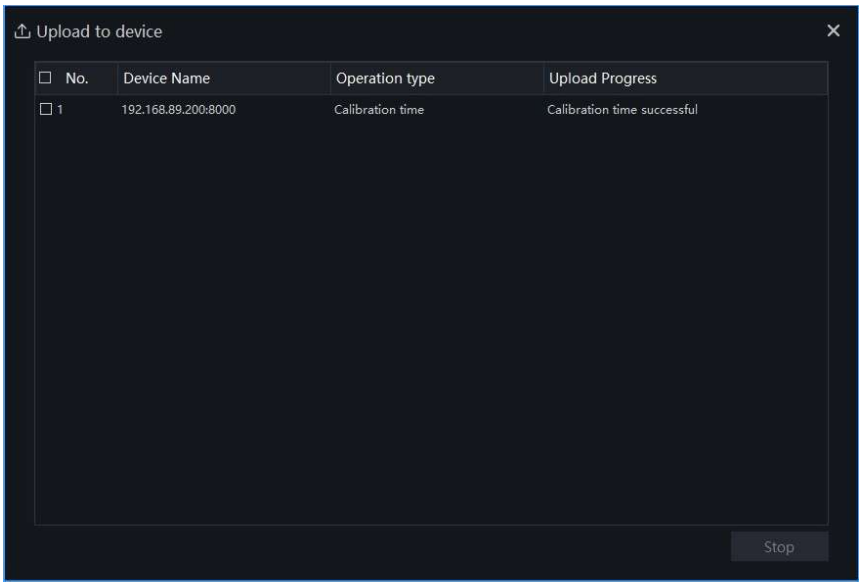
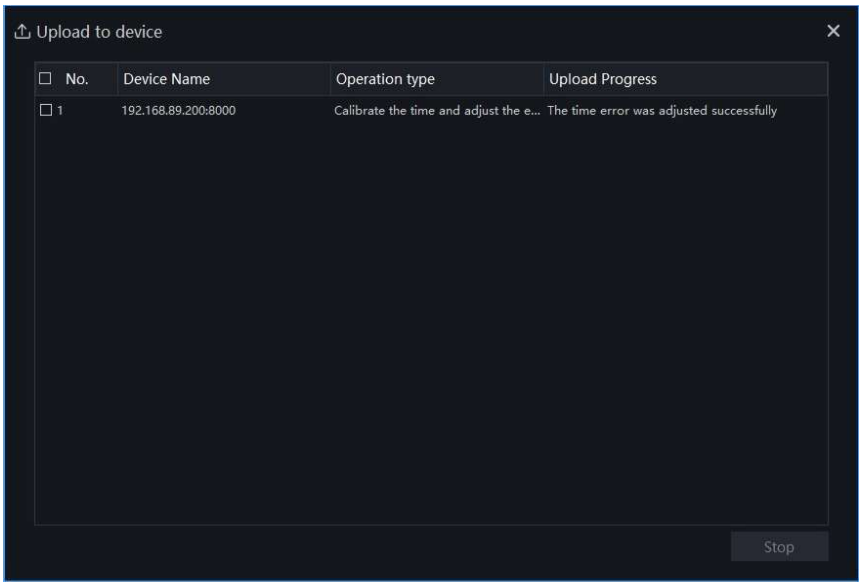


Figure 14-12 Status window



14.1.7 Upload Management

Step 1 Set the filter and select the upload content, as show in in Figure 14-3.
Step 2 Click **Start Uploading** to apply settings to the device.
Step 3 The upload status will be displayed, as shown in Figure 14-14.

Figure 14-13 Upload management

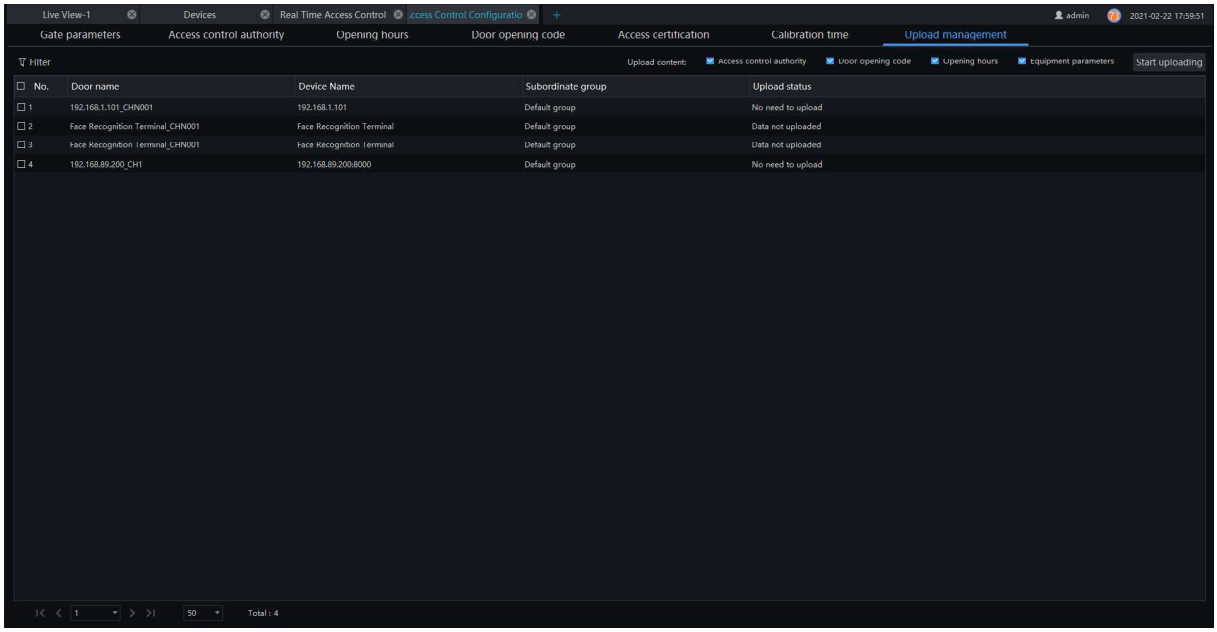
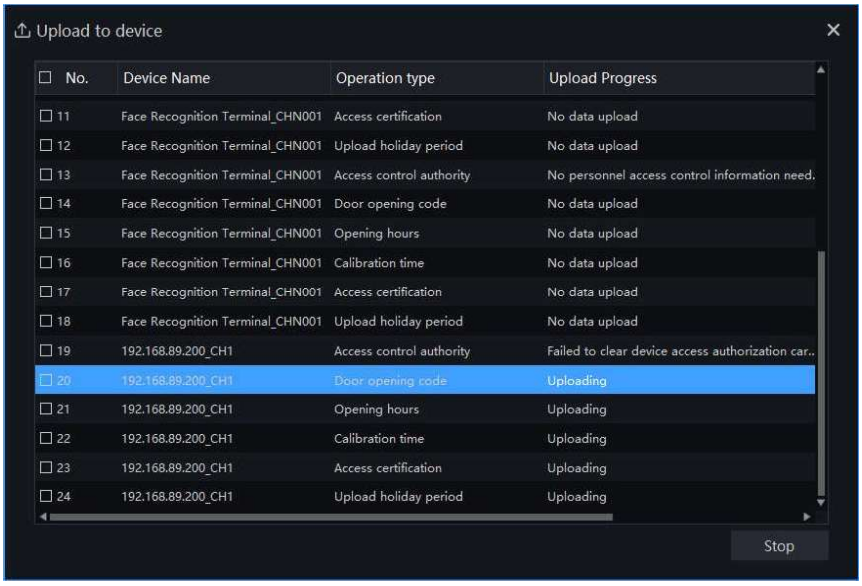


Figure 14-14 Upload to device



14.2 Real Time Access Control

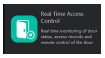
On the main menu page, click  to open the detailed interface, as shown in Figure 14-15.

Figure 14-15 Real time access control

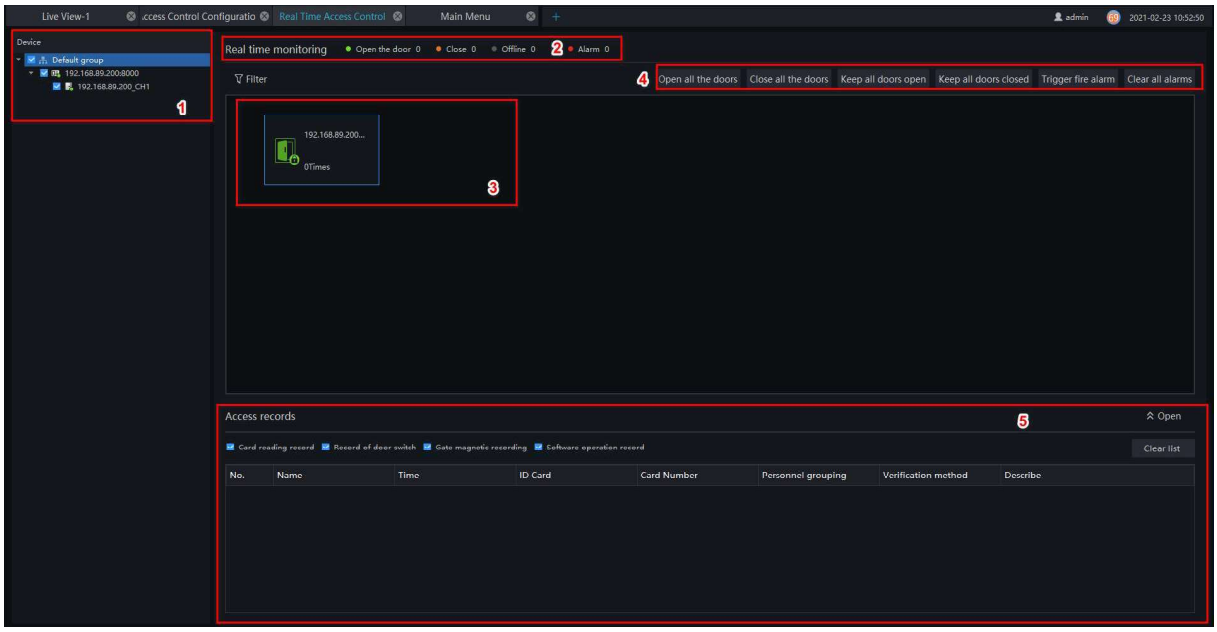
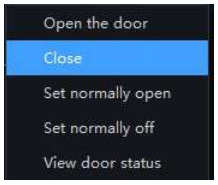


Table 14-2 Real time control

No.	Function	Description
1	Device list	Displays the list of connected access control devices.
2	Real time monitoring	Shows real-time door events over the past 24 hours, including open, close, offline, and alarm states.
3	Status of access control	Displays the current door status: green means open, red means closed. Right-click a door  to operate it individually.
4	Operation	Use the icon to perform actions such as: open all doors, close all doors, keep all doors open, keep all doors closed, trigger fire alarms, and clear all alarms.
5	Access records	Displays detailed logs, including card swipe records, door switch records, magnetic gate records, and software operation records. All details are shown in list format.

14.3 Access Control Inquiry

On the main menu page, click  to open the detailed interface, as shown in Figure 14-16.

Figure 14-16 Access control inquiry

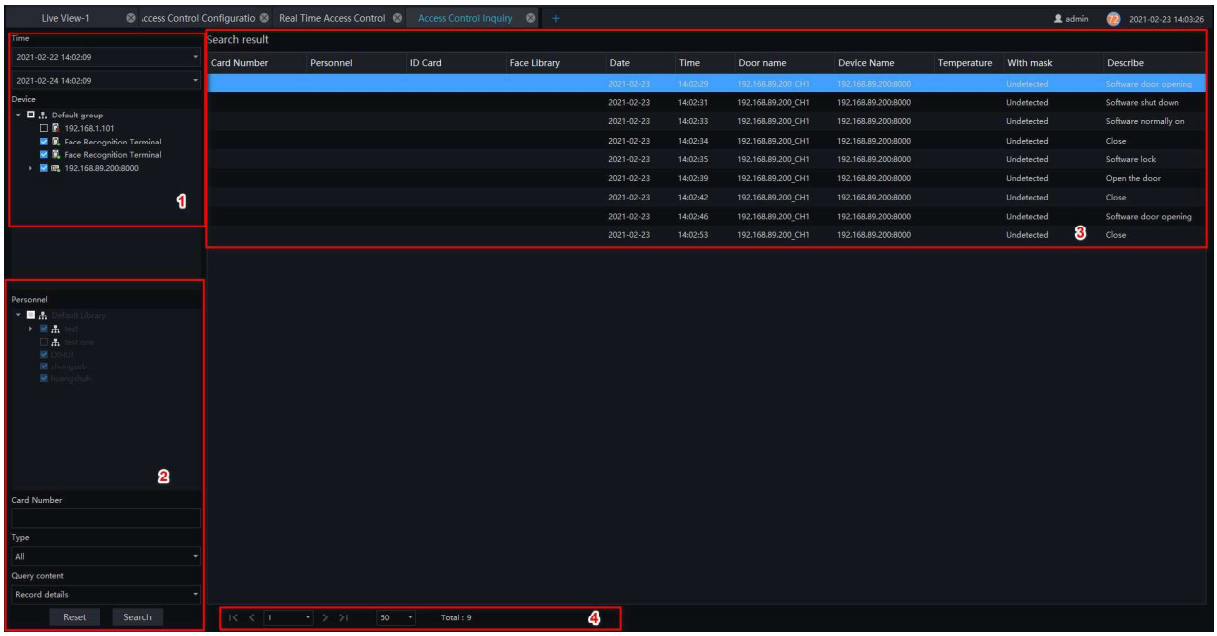


Table 14-3 Temperature search

No.	Function	Description
1	Set time Choose devices	Select the device(s) and set the time range for the query. Tick the checkbox to include the devices you want to search.
2	Personnel	Choose the personnel to search for, or provide additional information such as card number, personnel type (all or specific people), and query content (detailed records or statistical reports).
3	Search result	Displays the results of the search.
4	Page information	Shows the current page number, number of items per page, and total pages; lets you switch between pages.