

SECUREseries

SECURE CMS (Central Management System) User Manual



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Introduction

Overview

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

Reader

This document is intended for:

- Technical Support Engineer
- System Manager
- System Operator

Symbol Convention

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

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

Server Name

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



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1 Platform Description

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

1.1 System Function

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



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

 \triangleright

1.2 System Components

1.2.1 Central Management Server

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

1.2.2 Database Server

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

1.2.3 Media Distribution Server

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

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

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

1.2.4 Intelligent Analysis Server

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

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

Reference:

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

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

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

1.2.4.1 Server Management Tool

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

H	Server H anager	Tool					– ×
Ser	rver Name	Status	File Path	1			
	CMU	Running	D:\CMS\s	erver\CMU.e	ke		
	IAU	Running	D:\CMS\s	erver\IAU.exe	,		
	MDU	Running	D:\CMS\s	erver\MDU.e	xe		
	Database	Running	D:\CMS\s	erver\mysql\l	bin\mysqld.exe	•	
	Watchdog	Running	D:\CMS\s	erver\Watcho	log.exe		
K							>
 	N						
		_				1	
	🕨 Start 📃	Stop 🖃	Regist	🗙 Delete	Config	+ Add Server	📑 Export Log

Figure	1-1	Server	Managemen	t UI
Inguio	1 1		managemen	ιOI

Configuration: configure the servers(IAU and MDU) are associated with the corresponding the CMU server. Export log: export the logs of servers to local folder.

Manager Server IP:	127. 0. 0. 1
Manager Server Port:	10086
	Apply Cancel



1.2.5 Client

1.2.5.1 About PC Client

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

<page-header> Image: Province of the province o

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

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

1.2.5.2 About Mobile Client

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





1.3 System Requirement

OS Not support Microsoft Windows 32 bit anymore.

Name	PC Client	Central Management Server	Media Distribution Server (CPU environment)		elligent alysis Server PU vironment)	Intel Ana (GP envi	lligent lysis Server U ronment)
CPU	Intel® Core™ i5-7500 or better	Intel® Core [™] i5-7500 or better	Intel® Core TM i5-7500 or better	el® Core TM Intel® Core TM i7 In 7500 or better or better o		Intel or b	l® Core™ i7 etter
RAM	8 GB or more	8 GB or more	8 GB or more 8 G		8 GB or more		B or more
Network Card	Gigabit/s						
HDD	50 GB or Above	50 GB or Above	50 GB or Abov	e	50 GB or Above		50 GB or Above



L

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 Resoluti on	1600×960 and above, default 1920 x 1080							
Video Card								
GPU					NVIDIA GTX 1050 or better			

1.4 Deployment Planning

CAUTION

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

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

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

1.4.1 Mini Method (Standalone Deployment)

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



Figure 1-3 Mini method



1.4.2 Middle Method (Distributed Deployment)

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



Figure 1-4 Middle method

1.4.3 Large Method (Distributed Deployment)

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





Figure 1-5 Large method



2 Installation

2.1 One-Click Installation

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



Figure 2-1 One click installation

2.2 Custom Installation

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

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



Figure 2-2 Installtion interface



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

V1.5.3.0.0.0.0 — X	V1.5.3.0.0.0
 Server Center Management Server Media Distribution Server Intelligent Analysis Server Client 	 Server Center Management Server Media Distribution Server Intelligent Analysis Server Client
Install path : Free Space 27 GB C:\Program Files (x86)\CMS 🛅	Install path : Free Space 27 GE C:\Program Files (x86)\CMS 🗋
< Back Setup >	K Back Setup

Figure 2-3 Server installed on a machine

Client installed on another machine

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



CMU on A machine



Figure 2-4 Installing

MDU on B machine

Server

Client

Install path :





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

📖 ΝΟΤΕ

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

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

📖 ΝΟΤΕ

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

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



click and open the menu.



Figure 2-5 Server manager tool

🚍 ServerIanag	erTool					– ×
Server Name	Status	File Path				
Watchdog	Running	D:\Progra	m Files (x86)	\CMS\server\V	Vatchdog.exe	
Database	Running	D:\Progra	m Files (x86)	\CMS\server\n	nysql\bin\mysqld	.exe
CMU	Running	D:\Progra	m Files (x86)	\CMS\server\C	MU.exe	
IAU	Running	D:\Progra	m Files (x86)	\CMS\server\I	AU.exe	
MDU	Running	D:\Progra	m Files (x86)	\CMS\server\N	/IDU.exe	
<						>
∟ Watchdog						
		a	× . 1 .	* a at	دند لل	1
▶ Start	Stop 🔄	Kegist	X Delete	Config	T Add Server	E Export Log

2.3 Retrieve password

Figure 2-6 GUID

🚍 Serverlans	agerTool	- ×
Server Name	Status	File Path
Watchdog Database	Running Running	D:\Program Files (x86)\CMS\server\Watchdog.exe D:\Program Files (x86)\CMS\server\mysql\bin\mysqld.exe
CMU	Running	CMU.exe
IAU MDU	Running Running	GUID CMU_9C5C8EC2FF010 AU.exe MDU.exe OK
<		>
CMU Start	Stop 🗐	Regist 🗙 Delete 🏟 Config 🕂 Add Server 📑 Export Log

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





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

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

V1.5.3.0.0.0.0_20200713		×
	👤 admin	–
	a	¥
CMS	a 127.0.0.1 →	10086
	🗹 Remember Pas 🗌 Auto Log	jin
	Login	

Figure 3-1 Login interface



4 Quick Start

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

4.1 Monitoring Application Configuration Process



4.1.1 Add Front-end Device

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

Temperate	ure Screening 🛛 🛞	Devices 🛞	+									👤 admin 🛛 🕡	2020-07-13 19:08:15
🕅 Filter									Q Auto Searc	h 🕂 Add Dev	vice 🗙 Delete	上 Import ① Expo	rt (i) Device Status
🗆 No.	Device Name	IP/ID/ domain name	Device Type	Model	Online Status	Subordinate gro	ι Channel	Protocol	MAC	Server		Operation	
D 1	192.168.32.156	192.168.32.156	Multiobjective Camera		Online	Default group	1	Private Protocol	00:1C:27:FF:56:32	IAU_127.0.0.1,1	MDU:Auto	∠ ⊚ ×	
2	192.168.32.126	192.168.32.126			 Online 	Default group		Private Protocol	00:1C:27:08:14:54	IAU:Not Suppo	ort,MDU:Auto		
	192.168.32.222_30001		Body-Temp Detector	SimulateProductModel_3000		Default group		Private Protocol	SimulateMac_4CEDFBC		MDU:Auto		
		192.168.32.145									DU:Auto		
		192.168.32.179 Q. Au	to Search							×	,MDU:Auto		
6			me admin	Password ••••					م	Start Search	,MDU:Auto		
		192.168.32.62 🔲 N	o. Device Name	IP/URL	MAC	Device Type	N	lodel	Channel Result		;MDU:Auto		
8		192.168.32.107									;MDU:Auto		
											,MDU:Auto		
10											DU:Auto		
											;MDU:Auto		
	GANZ_ZN8_IPC	192.168.32.116									;MDU:Auto		
		192.168.32.108									,MDU:Auto		
											,MDU:Auto		
											DU:Auto		
		192.168.32.196									;MDU:Auto		
											,MDU:Auto		
18		192.168.32.194									DU:Auto		
		All dev	ice types	▼ All connect results	▼ Une	ncrypted - Availabl	e 0 Selecter	10	Add	Cancel			
			Online : 18 0	offline : 0									

Figure 4	-1 Add	device
----------	--------	--------



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

4.1.2 Add User Permissions

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

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

+	Add User								×
	Username				Password			¥	
	Role Name	Adminis	trator 🔻		Group	Default		-	
	Remark								
	Menu Privileç	ge C	hannel Privilege	Face	Lib Privilege				
	🗹 Select All								
	🗹 Live View		🗹 Playback		Devices	🗹 Lay	yout		î
	🗹 Log		🗹 E-Map		Real-time alarm	🗹 Gr	oup		Ι.
	🗹 Users		🗹 Alarm Search		Report Statistics	🗹 Fa	ce Recognitio	n	Ι.
	🗹 Device Config		Servers		Temperature Search	n 🔽 Al	Recognition		Ι.
	🗹 Health Archive		🗹 Vehicle identify		Entrance Guard	🗹 Fa	ce Lib manage	e	Ι
	🗹 License plate r	manage	☑ Face search		License plate search	n 🔽 Pe	rson and car	search	Ι
	🗹 Face match co	nfig	🗹 License match confi	ig 📘	Temperature config	🗹 Ala	arm mail		
	🗹 Thermal image	e config	☑ Thermal image sea	rch 🖪	Thermal image histo	ory 🔽 Att	endance prev	view	•
					Save and	d New	Add	Са	ncel

Figure 4-2 Add user



4.2 Intelligent Application Configuration Process



4.2.1 Add Front-End Device

Refer to 4.1.1

4.2.2 Add Face Database

This function is used for cameras which support face detection.

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

+	AddLib				×
	Library Name				
	Face Library	🛔 Default Librar	у	-	
	Remark				
		Save and New	Save	Cancel	

Figure 4-3 Add face library UI

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



Figure 4-4 Person enroll

+	Person Enroll		×
	Name		
	Gender	Male 🔻	
	Birthday	2000-01-01	
	ID Card		
	Туре	Teacher 🔻	E
	Face Library	🚓 Default Library 🔻	
	Valid Time	Permanent validity 👻	
	Remark		
	Picture		
	🗃 Select File		
	🖻 One key photo		
		Save and New Save C	ancel

4.2.3 Add User Permissions

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



Figure 4-5 Add role





5 Main Menu Page

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



Figure 5-1 Main menu page

G=-™ TIP

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

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

Table 5-1 Main Interface Introduction	m
---------------------------------------	---



No.	Function	Description	
3	Alarm Message	Alarm message reminder, click enter the real-time alarm interface directly; more details please refer to Chapter Real-time alarm.	
4	Backup	Backup the task, click to display the list of tasks backup and backup history.	
5	Operate	Admin Cock Screen F10 Language Help F1 About User: Switch users and modify passwords. Lock screen: Click to lock the screen, enter the password to unlock the lock screen, and the password is the login password. Language: there are nine languages can be chosen. Help: Click to go to the help page for instructions. About: Platform version information.	
6	Setting	Click to enter the system configuration, you can set the basic settings, file path, hotkey setting, snapshot setting, log export as shown in Figure 5-2. Click the drop-down menu to select a specific setting. Click "Save" to save the relevant settings.	
7	User	Show current user.	
8	Run status	Show CPU and RAM running status.	
9	Date and Time	Current Date and Time.	



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

Figure 5-2 System Setting

 ⊗ System Config 				×
Basic Setting	Base Setting			Î
File Path	Remember Password	Auto Login	Automatic Startup	
(Key) Hotkey Setting	Alarm Message	Alarm Message 👻		
Horkey setting	🗹 Flicker Widget	🗌 Max Widget	🗌 Delay Widget	
i Snapshot Setting	🗌 Open Alarm Dialog			
Log Export	Alarm Sound	Ignore 🔻		
	Language	English 🔻		
	Home Page	Show Preview Page 👻	Restore Preview Layout	
	Video Proportion	Original Proportion	O Full Screen Proportion	
	Decoding Method	Hardware Acceleration		
	Default Stream	Adaptive -		
			Default Save Cancel	



Figure 5-3 Basic Functions



Figure 5-4 Configuration Maintenance



Figure 5-5 Face Recognition



Figure 5-6 License Plate Recognition



Figure 5-7 Multi-target Recognition





Figure 5-8 Attendance



Figure 5-9 Temperature Monitor



Figure 5-10 Thermal Imaging



Figure 5-11 Card management





6 Basic Functions

6.1 Live view

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

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

G_™ TIP

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



Figure 6-1 Live view UI

Table 6-1 Live view

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



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

6.1.1 Layout

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

6.1.2 Device

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

6.1.3 Operation

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



Figure 6-2 PTZ adjustment

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



Cruise: cycle the preset positions according the order.

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

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



Figure 6-3 Image adjustment



6.2 Playback

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

On the main menu page, click



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

Figure 6-4 Playback interface



Table 6-1 Playback

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



No.	Function	Description
4	Toolbar operation	Video operation: operation, timeline, display. For example
		Rewind
		Pause/Play
		Stop
		Next frame
		30. 30 , Backward 30s/ Forward 30s
		$\langle 1x \rangle$, Several fold speed slow release, fast release
		🔳 🎟 🏢 🧱 , Layout display
		Full screen
		, Download back up device video, specific steps please refer to chapter 9.3
		Bath backup, choose multiple channels to backup the video.
		^{1Day} , Select progress bar format



Figure 6-5 Batch backup

Batch backup		×
Stream	Sub Stream	•
Start Time	2020-01-19 14:49:38	•
End Time	2020-01-19 15:49:38	•
Device	 Default group PingShan Stre 192.168.1 192.168.1 192.168.1 192.168.1 Feng Lin Stree 192.168.1 192.168.1 192.168.32 192.168.32 	
	OK Can	cel

Figure 6-6 Video grid



6.2.1 Playback the Device Video

Procedure:



- Step 1 Select display layout mode, support multiple devices synchronous playback
- Step 2 Select the device in the device list that needs to be played back, video at the current time will be automatically queried and played back
- Step 3 Select the way as shown in the picture on the timeline ,can play back the video by selecting different progress bar formats.



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

6.2.2 Back up the Device Video

Procedure:

Step 1 Click , the video starts to back up, the icon the video quickly, download the video with MP4 format.



shows, drag the time scale can copy

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

Figure 6-7 Download interface



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

Basic Setting	File Setting	A
	Picture Save Path	C:/Users/Administrator/AppData/Local/Sunview/snap
File Path	Video Save Path	C:/Users/Administrator/AppData/Local/Sunview/record
(Key) Hotkey Setting	Hotkey Setting	
(i) Snapshot Setting	Function	Shortcut Key
	Help Documentation	F1
	Preview Full Screen	F2
	Live View	F3
	Playback	F4
	Real-time Alarm	
	System Configuration	
	User Management	
		Default Save Cancel




6.3 Real-Time Alarm

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

On the main menu page, please click

Realtime alarm Real time to display alarm norseps

to enter the detailed interface, as shown in Figure 6-9

Figure 6-9 Real-Time alarm interface

Real-time	e alarm 🛛 🕂							👤 a	dmin	<u>58</u> 2	019-04-24	4 15:04:12
									🖹 Ala	rm Proce	essing	🗊 Clear
🗆 No.	Alarm Time	Device	Channel	Alarm Type	User	Alarm Statu:	Remark	Ор	eration			î
20328												
20327	2019-04-24 15:0	Device	Device_CHN003	Motion Alarm		Unprocessed		2	۵			
	2019-04-24 15:0	Device	Channel02	Motion Alarm		Unprocessed		2	ß			
20325	2019-04-24 15:0	192.168.10.208		Motion Alarm		Unprocessed		2	6			
	2019-04-24 15:0	192.168.10.208		Motion Alarm				∠	6	D3		
20323	2019-04-24 15:0	192.168.10.210		Motion Alarm		Unprocessed		2	6			
	2019-04-24 15:0	192.168.10.208		Motion Alarm				۷	6	D3		
20321	2019-04-24 15:0	192.168.10.208		Motion Alarm		Unprocessed		2	6			
	2019-04-24 15:0	Device	Channel01	Motion Alarm				۷	6			
20319	2019-04-24 15:0	192.168.10.210		Motion Alarm		Unprocessed		2	6			
	2019-04-24 15:0	192.168.10.208		Motion Alarm		Unprocessed		۷		C ³		
20317	2019-04-24 15:0	192.168.10.208		Motion Alarm		Unprocessed		2	Ð			
	2019-04-24 15:0	Device	Channel01	Motion Alarm		Unprocessed		2	ð	D3		
20315	2019-04-24 15:0	192.168.10.210		Motion Alarm		Unprocessed		2	ð	D3		
	2019-04-24 15:0	192.168.10.208		Motion Alarm		Unprocessed		2	ð	D3		
20313	2019-04-24 15:0	Device	Device_CHN003	Motion Alarm		Unprocessed		2	đ			
00212	2010-04-24 15-0	Davica	Channel()?	Motion Alarm		Unprocessed		/	151	പ 🤇		
								Not	show		• 🗆 Ste	op refresh

Table 6-1 Real-time alarm

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

Procedure:

Step 1 Click the real-time icon at the main menu page to enter the detailed page, and you can access quickly by

clicking

icon in the upper right corner of the screen.

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



Figure 6-10 Alarm process

Channel Alarm		10000	×
2019-04-24 15:08:45 192.168	3.10.208 (M	otion Alarm)	
Alarm Confim	General		
Remark			
🗹 OpenDialog			
		Confirm	Cancel

- Step 3 Click to play back the alarm occurrence video for 30S.
- Step 4 Click to view live video of the alarm device.



6.4 Alarm Search

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

On the main menu page, click

6

to enter the detailed interface, as shown in Figure 6-11

Figure 6-11 Alarm search interface

Alarm Sea	rch 😣 Maii	n Menu 🛛 🕲	+							👤 ad	min	57	2019-04-24 15:54:39
Alarm Type	Channel Alarm	▼ Select All	~ (Alarm Status	Unprocess 👻	Time	2019-04-23	15:35:46~2019-04-24 15:35:4	16 📋 Device Name			4 6 S	earch 2 Process
🗆 No.	Alarm Time	Device	Channel	Alarm	Туре		Jser	Alarm Statu: Remark		Oper	ration		
≥ 1													
🗆 2	2019-04-24 15:3	192.168.10.208	_CH2	Motion	Alarm			Unprocessed		2	۵	<u>+</u>	
3	2019-04-24 15:3	192.168.10.210		Motion	Alarm			Unprocessed		∠	٥		
□ 4	2019-04-24 15:3	Device	Channel01	Motion	Alarm			Unprocessed		2	۵		
D 5	2019-04-24 15:3	192.168.10.208		Motion	Alarm					2	۵		
□ 6	2019-04-24 15:3	192.168.10.210		Motion	Alarm			Unprocessed		2	۵		
07	2019-04-24 15:3	Device	Device_CHN003	Motion	Alarm			Unprocessed		2	۵		
8	2019-04-24 15:3	Device	Channel02	Motion	Alarm			Unprocessed		2	۵		
9	2019-04-24 15:3			Motion	Alarm			Unprocessed		2	ð		
□ 10	2019-04-24 15:3	192.168.10.208		Motion	Alarm			Unprocessed		2	۵		
D 11	2019-04-24 15:3	192.168.10.208		Motion	Alarm			Unprocessed		2	۵		
□ 12	2019-04-24 15:3	192.168.10.210		Motion	Alarm			Unprocessed		2	۵		
□ 13	2019-04-24 15:3	192.168.10.208		Motion	Alarm					2	۵		
□ 14	2019-04-24 15:3	Device	Device_CHN003	Motion	Alarm			Unprocessed		2	۵		
15	2019-04-24 15:3	Device	Channel02	Motion	Alarm			Unprocessed		2	۵		
□ 16	2019-04-24 15:3	Device	Channel01	Motion	Alarm			Unprocessed		2	6	⊻	
□ 17	2019-04-24 15:3	192.168.10.208		Motion	Alarm			Unprocessed		2	6	≚	
□ 18	2019-04-24 15:3	192.168.10.210		Motion	Alarm			Unprocessed		2	۵		
19	2019-04-24 15:3	Device	Device_CHN003	Motion	Alarm			Unprocessed		2	đ		
□ 20	2019-04-24 15:3	Device	Channel02	Motion	Alarm			Unprocessed 3		2	6	4⊻	
I< <		≻I 20	Total : 7	⁷⁰⁵³ 5									

Table 6-1 Alarm search

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



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

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

ഥ Channel Alarm			4	₽	×
(c) 22.07 (c) 22	Ubecce 125 + 29/06/2020 15-16:26 97/2 8.3 28.1 28.1 28.1 28.1 28.1 28.1 28.1 28.1	p Alarm			
Alarm Confim	General				•
Remark					
	(Confirm	Can	cel	

Figure 6-12 Processing alarm

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



6.5 Layout Management

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



to enter the detailed interface, click to add layout as

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



				👤 admin	57 2019-04-24 16:10:13
Layout List 1 +	Add Layout*				Save ← Cancel
H Add Layout	Add Layout*	Layout Name: Add Layout	4 Tour Interval:	5	⊘ Save
	€ 192.168.0.200 € 192.168.0.200 € 192.168.8.0.201 € 192.168.88.127 3				

Table 6-1 Layout management

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

Procedure:

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

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

Step 3 Set tour interval.



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

Step 5 Click "Save" to save settings.

6.6 E-Map

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

At new function page, click

to enter detailed interface, as shown in Figure 6-14.

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



Figure 6-14 E-Map interface

Table 6-1 E-map

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



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

6.6.1 Add Electronic Map

Procedure:

Step 1 Click , the inter	face will be she	own as be	elow.	
+ Add Map		×	+ Add Map	×
Мар Туре			Мар Туре	
World Map		-	Custom Map 👻	
Data sources			Map Name	
OpenStreetMap				
Online/Offline map			Map Path(Recommended resolution 1024*768)	
Online			-	
	Confirm	Cancel	Confirm Cance	el

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



Figure 6-15 World map



Step 3 Click "Confirm" to save the map.

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

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

6.6.2 Edit Map

Step 1 Click C Edi	t ton enter the edit	ton enter the edit status, [™] Map Setting										
		Figure 6-16	Map setting									
Parent node	😵 World Map	▼ Map Name	island	つ Cancel	⊘Ok							
		Figure 6-17 A	Add map node									
Parent nod	e & island	▼ Map Name		ာ Cancel	⊘Ok							



Figure 6-18 Custom Map

+ .	Add Map			×
	Map Name			
	Map Path(Recommended resolut	ion 1024*768)		
			-	
		Confirm	Cano	el

Figure 6-19 Delete map

📀 Е-Мар	
Are you sure you want to delete the map	
ОК	Cancel

Step 2 Click \bigcirc Exit Editing to save the edit.

6.6.3 Deploy Monitoring Site

Procedure:

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

- Step 2 Select the map for monitoring deployment
- Step 3 Drag camera icon on the map with mouse, the monitoring direction and the size of area can also be controlled with mouse.

6.6.4 Quick Navigation



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



Step 3 Click to filter the devices.





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

Step 5 Click (2) to view the alarm information.

Step 6 Click to set the live video split screen



Figure 6-20 Live video of map

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



Figure 6-21 Live video of alarming





6.7 Report Statistics

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

On the main menu page, click

. III

to enter the detailed page, as shown in Figure 6-22.

Figure 6-22 Report statistics interface



Figure 6-2 Alarm type statistics



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



6.8 Monitoring Center

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

On the main menu page, click

Monitoring center Multi data synthesis, visual data statistics monitoring center to entit

to enter the detailed page, as shown in Figure 6-23.





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

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

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

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

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

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

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

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

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



6.9 Alarm Linkage

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

Live View-1 🛛 😵 🛛	vent Linkage 🛛 😵 🕂	👤 admin	2020-07-08 10:40:02
Event Linkage Strategy +			
Event Linkage Strategy0*	Event Linkage Strategy0		Delete
	Fnable Stratery name Fwert Inkane Stratery) Save Name		
	I.Trigger Conditior 2.Linkage Event 3.Defence Time		
	Send mail		
	Coupor Presse select chames · · · · · · · · · · · · · · · · · · ·		
Enable all Disable all			Previous Next

Figure 6-24 Alarm Linkage

Step 1 Click to add the new event linkage strategy.

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

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

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

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

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

Step 7 Click "Next" to set defense time.

Step 8 Click "Apply" to save the setting.



Figure 6-25 Trigger condition

I.Trigger Conditior	2.Linkage Event 3.Defe	nce Time
Trigger Type Trigger Event	Alarm event	▼ ▼
Alarm Device	 ▼ □ ♣ Default group □ 192.168.32. 	224 126 19 52 106 178 32.178_CH1 62 121 107 _IPC 131 170 171
	Available:109 Selected De	* evice:0

Figure 6-26 Linkage event

I.Trigger Conditior	2.Linkage Event	3.Defence Time	
☐ Send mail		•	
🗆 РТZ	Please select channel	• • +	
IO Output	192.168.10.224	▼ select All ▼ Output 3 Sec -	+



Figure 6-27 Defense time



6.10 TV Wall

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

Live View-1	0	Event Linkaç	ge 🕲	TV wall	8	Devices	⊗ +			👤 admin	60 2020-0	07-08 11:31:13
~ Device			V wall									/ wall layout
 Default group Default group 192.168.10.224 192.168.2124 192.168.32.19 192.168.32.19 192.168.32.0168.32.106 01 192.168.32.62 192.168.32.62 192.168.32.107 192.168.32.107 												
		W	/indow details							Start Cruise	Stop cruising	a clear list
		1	No. Window	number	Channel		Interval time	Stream 💉		Operation		

Figure 6-28 TV wall

- Step 1 Click on the upper right corner of the TV wall interface to set the TV wall layout. The default is 2*2.
- Step 2 Drag the online channel and the prompt "Please bind the decoder output port first" appears.
- Step 3 Set up the interface of the interface device, and you can watch the live video directly on the TV wall after completion.



Figure 6-29 TV wall layout

TV wall layout		×
TV wall specifications : 3		
Decoder	screen	
✓ Device		
👫 Default group		

The TV wall supports auto sequence play video.



7 Configuration Maintenance

7.1 Devices

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

On the Main menu page, click

wich, add, Jakers, Welk () sica Batch ispart and , enter the detailed page, as shown in Figure 7-1

			F	Igure 7-1	Dev	nce M	lana	gement	interfac	ce				
Devices	s 😵 Mai	n Menu 🛛 🚳	+								1 ad	dmin	46	2019-04-24 09:12:
⊽ Filter							1 a	Auto Search	+ Add Dev	ice 🗙 Delete 🕻	umport בַ	± 1	xport	⑦ Device Statu
🔲 No.	Device Name	IP/ID/URL	Device Type	Model	Online §	Group	Chan	Protocol	MAC	Server	Оре	eration		
	192.168.10.189	192.168.10.189	Speed Dome	IPS57/30BDR/Z	• Offline	Default		Private Proto	00:1C:27:57:	IAU:Not Support,N	1D 🖊	×	٢	
🗆 2	Device	192.168.10.209	NVR	NVR2504E1-P4E	Online	Develop		Private Proto	00:1C:27:0E:	IAU:not configured	м 🖊	×	1	
3	192.168.10.208	192.168.10.208	Body-Temp	SN-T5/13	= Offline	Default		Private Proto	00:1C:27:FF:F	IAU_127.0.0.1,MDU	I:A 🖊	×		
□ 4	192.168.10.210	192.168.10.210	Body-Temp	SN-T5/13	= Offline	Default		Private Proto	00:1C:27:FF:F	IAU_127.0.0.1,MDU	I:A 🗹	×		
D 5		192.168.0.151	Thermal Ca	SN-TPC4201KT/	= Offline	Default		Private Proto	00:1C:27:45:	IAU:Not Support,N	1D 🖊	×		
0 6	192.168.2.201	192.168.2.201	Thermal Ca	SN-TPC6401AT/	= Offline	Default		Private Proto	00:1C:27:FF:F	IAU:Not Support,N	1D ∠	×		

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



7.1.1 Auto Search

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

Procedure:

Step 1 On device management page click

Q Auto Search enter auto search page ,as shown in Figure 7-2.

Figure 7-2 Auto search page

Q /	Q Auto Search X													
User	name a	ıdmin		Password	••••	بر	IP Address						Q Sta	art Search
	No.	Device N	lame	IF	P Address	MAC		Device Type		Model	Channe	el Re	esult	
All c	levice typ	oes 🔻	All connec	ct results	▼ Available	0 Selected							Add	Cancel

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

- Step 3 Click "Start Search", the device on the same network as the client will be automatically searched and the search results will be displayed on the current page.
- Step 4 Tick the number of the device and click "Add". After finished, the device is displayed in the device list.

G⊆A TIP

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

7.1.2 Manual Add

Procedure:

Step 1 Click 7-3



+ Add Device			×
Device Name			
Device Type	IPC		-
Protocol	Private	Protocol	-
IP/URL			
Port	30001		
Username			
Password			~
Group	Default		-
Intelligent Analysis Server	Not Sup		
Media Distribution Server	Auto		
Save and New	Test	Add	Cancel

Figure 7-3 Manually add device page

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

Intelligent Analysis Server	Not Support	•
Media Distribution Server	Auto	•

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

- Step 3 Click "test" to check your settings, click "Save and New"
- Step 4 Pop-up window show "Add successfully", device is displayed in the device management page (device details are displaying on the page at the same time).

O Devices		
Confirm the removal of t		
	08	
	UK.	C

, click " OK " to

Step 5 Delete the cameras: tick the No of cameras, click "Delete" to show delete the cameras.



7.1.3 Export and Import Device

Procedure:

Step 1 Click "Export".

Step 2 Click "Export Template", edit information at template page.

Step 3 Click "Import".

Step 4 Select files to be imported , click "Save" , import device successfully.

--End

7.1.4 Device Status

Procedure:

Step 1 Click "Device Status".

Step 2 The pop-up window show the status of devices as shown in Figure 7-5.

Figure 7-5 Device Status

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

Step 3 Click "Export".

Step 4 Set the save folder to save the status log.

--End



7.2 Device Configuration

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

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



to enter the detailed page, as shown in Figure 7-6.

Device Config +					👤 admin	60 2019-04-24 20:05:40
 ★ Default ★ Development ★ 192.168.10.189 	Channel Info				∠ Edit ⑦ Device upgra	de Web Browser
Channel01	IP Address: 192.168.10.20	B Device Type: Body-	Temp Detector	Hardware Version: V130151_1	Channel Name:	
Device_CHN004 device_CHN004	No.: FFFB12	Device Model: SN-T5		Software Version: t3.6.0825.1004	4.3.0.7.1.0 Serial Number:	FFFB12
击 addtional 击 Melody	Video Encode	Sensor	OSD	Motion Alarm DD	NS Face Detecti	on
 	Main Stream			Sub Stream 1		Î
 ¹ 192.168.10.210 ¹ 192.168.32.156 	Video Encode Type	H265		Video Encode Type	H265 👻	
PNS ECO 5SP57-12X 192.168.12.159 102.168.88.128	Video Encode Level	Mid		Video Encode Level	Mid 🔻	
192.168.88.129 192.168.88.130	Audio Encode Type	G711_ALAW		Audio Encode Type	G711_ALAW +	
🔿 192.168.0.120	Resolution	1920x1080		Resolution		1
■ 192.168.0.201 ■ 192.168.88.127	Frame Rate			Frame Rate		
	I Frame Interval	47		l Frame Interval	50	
	Bitrate Type	CBR .		Bitrate Type	CBR -	
	Bitrate	4000		Bitrate		
						Apply Refresh

Figure 7-6 Device configuration interface

Table 7-1 Device configuration

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



7.3 Group

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

On the main menu page, click

to enter detailed page, as shown in Figure 7-7

Figure 7-7 Organization interface

Group	+							👤 admin	60 2019-04-24 19:34:30
Group	+	Basic Info	ormation						3 🗹 Edit
★ Default		Name:	Default			Parent 0	Group: Defau		
🚓 addtional		Contacts:	admin			Phone P	Number: 88888	18	
		Address:					2		
		(User	Device					
			Username	Role Name				emark	
			admin	Administrator	Default			dmin	
				Administrator	Default				
			Paulo	Administrator	Default				
		4							

Table 7-1 Organization

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

7.3.1 Add Group

Procedure:

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



Figure 7-8 Add group

+ Add Group				×
Name				
Parent Group	Default		-	
Phone Numb	er			
Contacts				
Address				
	Save a	nd New	Save	Cancel

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

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

Step 4 Click "Save" to save and finish the adding.

7.4 Log Management

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

On the main menu page, click

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



Figure 7-9 Log management interface

					👤 admin 🛛 00 2019-04-24 19:50:05
Time	2019-04-23 19:47	:42~2019-04-24 19:47:42 1	Log Type Select All 2 -	Log Option invert selection 3 -	Keyword 4 5 Q Query
		ser	Time	Operate	Remark
	ad	lmin 2	2019-04-24 19:47:14	Add Group	Add Group[Melody]
	ad	lmin a	2019-04-24 19:25:53	Add Group	Add Group[addtional]
	ad	lmin a	2019-04-24 19:25:28	Modify Group	Modify Group[basic]
	ad	lmin a	2019-04-24 19:23:57	Add Group	Add Group[basci]
	ad	lmin 2	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.0.201]
	ad	lmin 2	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.88.127]
	ad	lmin a	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.0.200]
	ad	lmin a	2019-04-24 14:28:33	AddDevice	AddDevice[PNS ECO 5SP57-12X]
	ad	lmin 2	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.12.159]
10	ad	lmin a	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.88.129]
11	ad	lmin a	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.88.128]
	ad	lmin a	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.88.130]
	ad	lmin a	2019-04-24 14:28:33	AddDevice	AddDevice[192.168.0.120]
	ad	lmin a	2019-04-24 14:28:32	AddDevice	AddDevice[192.168.32.156]
	ad	lmin a	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.0.201 UID:30980]
	ad	lmin a	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.88.130 UID:7124]
	ad	lmin a	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.88.129 UID:27361]
	ad	lmin a	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.88.128 UID:4675]
	ad	lmin a	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.12.159 UID:24231]
	ad	lmin a	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:PNS ECO 5SP57-12X UID:3988]
	ad	lmin a	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:192.168.0.200 UID:15078]
	ad	lmin 2	2019-04-24 14:28:11	DeleteDevice	DeleteDevice[Name:啊实打实的 UID:18860]
	12 - Z - 1		T-1-1, 109 7		

Table 7-1 Log management

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

7.5 User

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

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





On the main menu page, Click

, go to detailed page as shown in Figure 7-10.

Figure 7-10 User management interface

Devices	8		⊗ +				👤 admin	50	2019-04-24 09:56:5	4
Use		Role								
								+	Add <mark>2</mark> × Delete	
🗆 No.	Username	Role Name		Remark			Operation			
1	admin	Administrator	Default	admin						
2	user	Administrator	Default	2			∠ ×			

Table 7-1	User management
-----------	-----------------

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

7.5.1 Add User

Procedure:

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



Figure 7-11 Add User

🕂 Add User				×
Username		Password		، بر
Role Name	Administrator	Group	Default	
Remark				
Menu Privileg	je Channel Privilege	Face Lib Privilege		
☑ Select All				
🗹 Live View	🗹 Playback	Devices	🗹 Layout	1
🗹 Log	🗹 E-Map	🗹 Real-time alarm	🗹 Group	
🗹 Users	🗹 Alarm Search	Report Statistics	🗹 Face Recognitio	n
🗹 Device Config	Servers	🗹 Temperature Search	ı 🗹 Al Recognition	
🗹 Health Archives	s 🔽 Vehicle identify	🗹 Entrance Guard	🗹 Face Lib manage	
🗹 License plate n	nanage 🔽 Face search	🗹 License plate search	Person and car	search
🗹 Face match cor	nfig 🛛 🗹 License match co	onfig 🛛 🗹 Temperature config	🗹 Alarm mail	- -
🗹 Thermal image	e config 🛛 🗹 Thermal image s	earch 🛛 🗹 Thermal image histo	ory 🗹 Attendance prev	iew 🔻
		Save and	d New Add	Cancel

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

Step 3 Set login password and group.

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

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

7.5.2 Add Role

Procedure:

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

User		Role				
					+ Add	× Delete
🗆 No.	Role Name	Group	Remark	Operation		
	Administrator	Default	Administrator			
	Operator	Default	Operator			
3						

Figure 7-12 Role interface

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



Figure	7-13	Add	role
Inguie	7-15	1 Iuu	1010

+	Add Role					×
	Role Name			Remark		
	Group	Defaul	t 🔻			
	Menu Privileç	ge (Channel Privilege	Face Lib Privilege		
	☑ Select All					
	🗹 Live View		🗹 Playback	🗹 Devices	🗹 Layout	î
	🗹 Log		🗹 E-Map	🗹 Real-time alarm	🗹 Group	I
	🗹 Users		🗹 Alarm Search	🗹 Report Statistics	☑ Face Recognition	I
	🗹 Device Config		✓ Servers	🗹 Temperature Search	ı 🗹 Al Recognition	I
	🗹 Health Archive	5	🗹 Vehicle identify	🗹 Entrance Guard	🗹 Face Lib manage	I
	🗹 License plate r	nanage	✓ Face search	🗹 License plate search	🗹 Person and car search	I
	🗹 Face match co	nfig	🗹 License match config	g 🗹 Temperature config	🗹 Alarm mail	I
	🗹 Thermal image	e config	🗹 Thermal image sear	ch 🗹 Thermal image histo	ory 🗹 Attendance preview	L
	☑ Attendance sta	ntistics	☑ Attendance config	✓ Traffic statistics	☑ Temperature statistics	•
				Save and	New Add Ca	incel

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

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

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



7.6 Servers Management

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

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

Figure 7-14 Servers management interface



Table 7-1 Ser	vers managemen	t
---------------	----------------	---

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



7.6.1 Central Management Server

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

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

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

Performance	User	Device	Server setting		
Basic Setting					
Synchronization device time					
Temperature selection	Ce	elsius 🔻			
Device registration potocol	Pri	ivate Protocol 🛛 👻			
				Apply	
save setting				. 46.7	
Log Save Days	7		Day		
Data Save Days	90		Day *Can't be less than any of the fo	llowing snapshot retention time	
Over temperature capture ret	ention time		Hrs *Data retention days cannot be	exceeded	
Otherstand and a sector of the	·····		Ure +D-to ortention doub commet be		
Other temperature capture re	tention time		Trs "Data retention days cannot be	exceeded	
Large image storage mode	All				
Snapshot path	Def	fault 🔻	Default path		
				Apply	
Snapshot Setting	_				
Face capture recognition free		0			
Mask recognition		0			
Alarm without mask		0			
Time to capture and remove I	neavy objects 30s	5 🔻			
Face algorithm mode	Loc	cal IAU 🛛 🔻			
				Apply	
Face capture threshold —					
Ambiguity				0.0	
Confidence Coefficient	_			0.6	
Face size(Long)	-	•		80 px	¢
Face size(Wide)	-	•		80 px	¢
*Capture images below threshold					
				Apply	

Figure 7-15 Server Setting



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

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

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

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

Figure 7-16 Modifying capture path



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

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



Figure 7-17 Modifying face algorithm mode

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

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

- Step 3 Set the snapshot of the duplication time of removing the similarity capture. In the drop-down list, 5S, 10S, 15S, 30S.
- Step 4 Snapshot saving path. It is best not to change the default path. Only change it if you have special needs.



- Step 5 Enable face capture recognition free, the system will measurement the temperature only, it will save the performance of system.
- Step 6 Enable mask recognition, the system will recognition the face wear mask.
- Step 7 If the mask recognition is enable, user can enable the alarm without mask, when recognize someone is without mask, it will send alarm information.
- Step 8 The face algorithm mode can choose local IAU and face algorithm box.
- Step 9 Face capture threshold, ambiguity, confidence coefficient, face size length and width.
- Step 10 Click "OK" to save the settings.

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

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

7.6.2 Data Backup

Procedure:

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

- 1		
Backup Type		
All		
Backup Path		
C:\Program Files	(x86)\SunView\client	-
Backup Progress		
	0%	
Download Progress		
	0%	
Backup Takes S	ome Time, Do Not Close Win	ndows
	Chart De las	

Figure 7-18 Date backup

Step 2 Browser the backup path, click "start backup" to back-up the server's data.

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

Step 4 Click to exit backup.



7.6.3 Date Recovery

~1	• •
CI	1CK

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

Figure 7-19 Restore backup

ຽ	Restore Backup	×
	Select File	
	—	
	Upload Progress	
	0%	
	Recovery Progress	
	0%	
Reco	overy may take some time. Please do not close this w	indow.
	Start Re	store

7.6.4 Media Distribution Server

7.6.4.1 Performance



Figure 7-20 Performance



7.6.5 Distribution Status

Figure 7-21 Distribution Status

Performa	nce D	Dispense Video						
No.	Channel UID	IP:Port	Bit Rate Input	Bit Rate Output	Request Time			
	103166_01	127.0.0.1:59566	4181	4185	2018-11-15 15:44:37			
	FFF345_01	127.0.0.1:59581		102	2018-11-15 15:44:57			
	573030_01	127. 0. 0. 1:59571	4307	4311	2018-11-15 15:44:40			
4	031006_01	127.0.0.1:59574	4129	4133	2018-11-15 15:44:43			

7.6.6 Intelligent Analysis Server

7.6.6.1 Performance

Please refer to chapter 18.2.1

7.6.6.2 Snap Information

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

Server ▼	Server Information O Refresh 🗹 Edit X Delete										
CMU_127.0.0.1 MDU_127.0.0.1	Server Name:	IAU_127.0.0.1	Server Type: IAU	Domain:	Default Domain	Star	rt-up Time: 2019-0	4-25 09:53:01			
IAU_127.0.0.1	Running State: C	Inline	Online Time: 0hrs 56	imin 12sec IP:Port:	127.0.0.1 : 10100	Ver	sion: 1.1.5.20	190402			
	Log Type:	Frror	Data Save Days: 90	Log Save [Days: 7 Day	IAU	Env: CPU Va	lid			
	Performance Snap Information										
	No.	Channel UID	IP:Port	Login Time	Face Snap Count	Face Valid Co	Body Snap Cc	Body Valid Co			
		837_001	192.168.32.156:30001	2019-04-25 09:53:02							
	2	FFFB11_001	192.168.10.208:30001	2019-04-25 09:53:02	0	0	0	0			
	3	FFFB12_001	192.168.10.210:30001	2019-04-25 09:53:02	39	21	0	0			
			20 🔻 Total								

Figure 7-22 Snap information



7.7 Alarm Mail

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



On the main menu page, click

to enter the detailed page, as shown in Figure 7-23.

Figure 7-23 Alarm mail

Report Statistic	⊗	Device Config	8	Alarm mail	⊗	+			👤 admin	47	2019-11-09 16:32:48
Alarm mail											
Strategy	+	Strategy1									× Delete
Strategy1		Strategy name		Strategy1							
		SMTP Server ad	dress				SMTP Server port				
		Username					Password		$\tilde{\mathbf{x}}$		
		Sender									
		Accessory image	e quality	Low			Transfer mode	No Encryption			
		Recipient1									
		Mail test									
											America
											Арріу

Step 1 Click + to add the new strategy.

Step 2 Input the name and information of SNMP.

Step 3 Click Mail test to test the settings.

Step 4 Click Apply to save the settings.



8 Face Recognition

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

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

8.1 Face Recognition

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



On the main menu page, click

to enter the detailed page, as shown in Figure 8-1.

Figure 8-1 Face recognition



Table 8-1 Face recognition

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


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

Figure 8-2 Filter device

Camera	🔻 🗖 👫 Default group	
	In the second	
	🗹 📭 192.168.32.171	
	🕨 🗖 🚘 Device	
	Image: 192.168.32.140	
	▶ 🗆 🖶 Device	▼
	Confirm	Cancel

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



Figure 8-3 Voice announcement setting

			×					×
FullScreen Mode	Full-screen Face Card		•	FullScreen Mo	ode	Full-screen Face Card		
Card Size	Middle		•	Card Size		Middle		
Stranger				Stranger				
Voice policy settings				Voice policy settings				
Stranger +		I	Delete	Stranger Regi	stered1 +			Delete
Face Library 🛛 🕷 🏦 Default Ub				Face Library	R A Default Lib	rany		
Speech 🗹 Over temperature	e 🔻 🗹 No Mask 🔻			Speech	🗹 Name 🗌 Time	All temperature		
Hello visitor					No Mask			
Voice time Time setting					Hello			
				Voice time	Time setting			
		ОК	Cancel				ОК	Cancel

Procedure:

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

8.2 Face Library Manage

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



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

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



Figure 8-4 Archives library

Li	ve View-1 🛛 🕲 Temperature Sc	reening 🛛 🕲	Face Lib N		⊗ +						👤 admin 🛛 🗔 2	2020-07-09 10:22:07
H	Face Library +	persor	nnel library								4 + AddLib X DeleteLib	🖌 EditLib
_ '		+ Add	× Delete	Import 🕁	企 Export	C Manual update	⊗ Setting ³ ⊽ Filter			5	Display subordinate organization	∷ 88
	A Temporary library	🗆 No.	Name	Gender	Birthday	ID Card	Туре	Face Library	Valid Time	Remark	Operation	
	2	01	liu ru	Female	2018-11-27	11008665	Teacher	Default Library/personnel li	Permanent validity		∠ ×	
		🗆 2	zhang cong	Male	2018-11-27	87884865837	Student	Default Library/personnel li	. Permanent validity		∠ ×	
			guo panpan			11008667	Student	Default Library/personnel li	Permanent validity			
		4	liu lijun	Female		11008680	Student	Default Library/personnel li	Permanent validity			
		🗆 5	ping benben	Male		11008678	Student	Default Library/personnel li	. Permanent validity			
		6	liu zheng	Male		11008685	Student	Default Library/personnel li	Permanent validity			
			shang haojie	Male		11008671	Student	Default Library/personnel li				
		8	he xiaolin	Female	2018-11-27	11008681	Student	Default Library/personnel li	. Permanent validity			
			liu hongbao	Male		11008684	Student	Default Library/personnel li				
		🗆 10	liu linjie	Female	2018-11-27	11008687	Student	Default Library/personnel li	Permanent validity			
		011		Male		11008683	Student	Default Library/personnel li				
			liu caofa	Female	2018-11-27	11008689	Student	Default Library/personnel li	Permanent validity			
			lu zhenyu			11008690	Student	Default Library/personnel li				
		14	liu ming	Male	2018-11-27	11008686	Student	Default Library/personnel li	Permanent validity			
				Male		11008682	Student	Default Library/personnel li				
		🗆 16	zhou zhigao	Female	2018-11-27	11008697	Student	Default Library/personnel li	Permanent validity			
				Male		11008694	Student	Default Library/personnel li				
		□ 18	tang jie	Male	2018-11-27	11008699	Student	Default Library/personnel li	Permanent validity			
				Male		11008696	Student	Default Library/personnel li				
		20	shi wenli	Male	2018-11-27	11008691	Student	Default Library/personnel li	Permanent validity			
												6
				> >I	20 *	7 Total : 114						

Table 8-1 Face library

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



Figure 8-5 Temporary library



Figure 8-6 Import

Import I ك	Persons	×
	ImageScale	
	Image Import	
	Form Import	
		Cancel

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



Click to enter face search.

Batch Input

Click

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



Figure 8-7 Batch input

	→ Batch Inp	×				
	Initial number	0				
	Туре	Teacher	•	5		
	Face Library	👫 Default Library	•			
	Number o	f selected : 2 Save	Can	cel		
Click "Add task" to	to update to update choose face librar	tte the face date manually, enter th y, tick or not "Skip list update in v	e interfao veek". Tł	ce as show ne result of	n in Figure f update will	3-8. show

	1. Default Library,Schoolcom	mon125Person 9/125
	7%	Updating
on window, as shown in		

V 1.5 (2020-07-13)



Figure 8-8 Manual update

C Photo update	3		×
	Add task		
Face Library ▼ ■ ♣ Default Lib ■ ♣ School → ■ ♣ persor	orary inel library in a week		
		to update	Cancel
Number of tasks: 0 C	Completed: 0		clear list



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



Figure 8-9 Temporary library setting

🕲 Temporary libra	ry settings		×	
Retention time	One week		-	
Show photos	First snapshot		-	
Naming rules	Stranger_First capture time_%c ▼			
	Example : Strange	er_0601_1		
		ОК	Cancel	

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

Figure	8-10	Filter
--------	------	--------

Device Name		Select All		-
Occurrences(M	lore than)	10		
Capture time		Customer Time	e '	-
		2020-01-19 14	4:23:39	-
		2020-01-20 14	4:23:39	-
	Reset	Confirm	Cancel	

The temporary library is live update.

8.2.1 Add Face Library

Procedure:

Step 1 Click + to add face library.

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



Figure 8-11 Add face library

+	Add Face Library					×	
	Library Name						
	Face Library	🛔 Default Libr	ary			-	
	Remark						
		ave and Nev		Save		Cancel	

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

8.2.1.1 Add Personnel Information

Procedure:

Step 1 Select a face library

Step 2 Click + Add to add new personnel information

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



Figure 8-12 Person enroll

+	Person Enroll		×
	Name		
	Gender	Male 👻	
	Birthday	2000-01-01 👻	
	ID Card		
	Туре	Teacher 🔻	ß
	Face Library	🚠 Default Library 🔻	
	Valid Time	Permanent validity 👻	
	Remark		
	Picture		
	🖿 Select File		
	🙆 One key photo		
		Save and New Save C	Cancel

- Step 4 Support one person to add multiple images, increase the comparison rate, each selected photo has a delete icon, click to delete.
- Step 5 Click "One key photo" to enter capture person immediately, as shown in Figure 8-13.





Figure 8-13 One key photo

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

Figure 8-14 Best installation angle



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

6∰ TIP

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



8.2.1.2 Batch Import

Procedure:

Step 1 Click "Export ", select "Export template".

Step 2 Edit above Export template, and save.

Step 3 Click above edited Export template to import all personnel information.

8.2.1.3 Batch Export

Procedure:

Step 1 Click "Export" to get into the Export interface.

Step 2 Choose the save path, and click " save" to save the settings.

8.2.1.4 Face setting

Procedure:

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



Figure 8-15 Face setting

Step 2 Choose "No Refresh" or " Auto Refresh".

Step 3 Set the refresh time and apply to.

Step 4 Click "OK" to save the settings.

8.2.1.5 Filter

Procedure:

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



Figure 8-16 Filter setting

Name					
Gender		ALL		-	
Туре		ALL		-	
ID Card					
Picture		ALL		-	
	Reset		Confirm	Cancel	

Step 2 Input the name need to filter.

- Step 3 Choose the gender, type and photo.
- Step 4 Click "Confirm" to save the settings.



8.3 Face Match Configuration

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

This function is only subject to Face Detection cameras.



On the main menu page, click

to view the configuration interface, as shown in Figure 8-17.

	Main N	/lenu 🛛 🛞	Face matching con	fig 😣 🕂				👤 admin	48 2019-11-09 17:56:32
Face	comp	arison							
									2 + Add × Delete
	lo.	Camera	IP Address	Туре	Face Library	Similarity	Enable status	Operation	
□ 1		192.168.10.208_CH1	192.168.10.208	Body-Temp	Default Library, RD, TP, scho	80	Enable	∠ ×	
2 🗆		192.168.10.210_CH1	192.168.10.210	Body-Temp	Default Library, RD, TP, scho	80	Enable	∠ ×	
3		192.168.0.133	192.168.0.133	Multiobjecti	Default Library, RD, TP, scho	80	Enable 1	∠ ×	
			SI 50 ₹	Total : 3					

Figure 8-17 Face Match configuration interface

Table 8-1 Strategy configuration

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



8.3.1 Face Comparison Configuration

Procedure:

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

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

+ Add Strategy			+ Add Strategy		
Device	😅 Channel10		Device	😅 Channel10	
Enable Strategy			Enable Strategy		
Stranger strategy	Strategy1 +	Delete	Stranger strategy	Strategy1 +	Delete
Face Library	🗹 🏯 Default Library		Face Library	🖬 🚓 Default Library	
	*Right-click and select multiple		<i>6</i> 1 1 1	*Right-click and select multiple	
Similarity	80 %		Similarity	80 %	
Compare result			Compare result		
Trigger alarm			I rigger alarm		
Linkage conditions	No Mask *		Linkage conditions	No Mask *	
Linkage Scheme	App Subscribe		Linkage Scheme	App Subscribe Send mail	
	IO Output 1 2			IO Output 1 2	
	Duration 1 - 5000	Ms		Duration 1 - 5000	
Defence Time	Defence Time		Defence Time	Defence Time	
		Confirm Cancel			Confirm Cancel

Figure 8-18 Add strategy

Step 3 Check camera and face library.

Step 4 Set up Similarity and activate Stranger mode.

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

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

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



Figure 8-19 Defense time



8.4 Face Search

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

This function only supports cameras with face recognition.

On the main menu page, click



to view more detailed interface.





Table 8-1	Smart search
-----------	--------------

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



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

8.4.1 Image Searching

Procedure:

Step 1 Click **to** select image.

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

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

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

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

Step 6 Click "Select" to choose picture of searching result.

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



Figure 8-21 Picture details



The yellow wireframe is drawing the snapshot face.

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

8.4.2 Track

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

Procedure:

Step 1 Click "select" to start select pictures.

Step 2 Tick the pictures from different cameras.

Step 3 Click "track", the pop-up track map will show, as shown in Figure 8-22.



Figure 8-22 Track



Step 4 Replay or playback the track line.

8.5 Classification Data Query

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

This function is only subject to Face Detection cameras.



On the main menu page, click

to view the configuration interface, as shown in Figure 8-23.



Figure 8-23 Classification data query



Table 8-1 Smart search

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

Procedure:

Step 1 Set the query start time and select the device.

Step 2 Tick the devices of the query. The default is to select all.

Step 3 Set the classification query conditions and search accurately.

Step 4 Click "Query" and the result of the query is now displayed.

Step 5 Click "Reset" to reset the query criteria.



Figure 8-24 More conditions





9 License Plate Recognition

9.1 License Plate Manage

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

This function only supports cameras with license plate recognition.

	License plate manage
NO.	Manage license plate grouping, license plate information, etc.

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



Figure 9-1 License plate manage interface

Table 9-1 Smart search

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



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

9.1.1 Add license Plate Library

Procedure:

Step 1 Choose "license Plate Library" at archives library interface.

Step 2 Click to add license plate library.

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

Figure 9-2 Add license plate library

+ Add Library							
Library Name							
License plate Lib 🔒 Default Library							
Remark							
	Save and New	Save	Cancel				

Step 4 Click "Save" to save the parameters.

9.1.2 Add License Plate Information

Procedure:

Step 1 Select a face library

Step 2 Click + Add to add new license plate information.

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



Figure 9-3 Add license plate

+	Add license plate info							
	License Plate							
	License plate Lik	Default Library						
	Valid Time	Permanent validity 🔹						
	Remark							
	Si	ave and New Save Cancel						

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

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

9.2 License Plate Configuration

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

This function only supports cameras with license plate recognition.



to view more detailed interface.



License pla	te manage 🛛 🛛 🛛	icense match config	⊗ +				👤 admin	50 2019-11-11 11:04:26
License	Plate							
								+ Add X Delete
🗆 No.	Camera	IP Address	Туре	License Plate Lib	Enable status		Operation	
□ 1	192.168.0.123	192.168.0.123	Multiobjective	+ Add Strategy			 ×	
				Camera	📑 Channel03			
				License Plate				
				Strange strategy	Strategy1 +		Delete	
				License Plate Lib	 ■ A Default Library ■ A garage *Right-click and select multiple 			
				Linkage Scheme	Compare result No entry lib	license plate alarm		
				Defence Time	Defence Time			
						Confirm	Cancel	
			ſotal : 1					

Figure 9-4 License plate configuration

Procedure:

Step 1 Choose "License Plate" at strategy configuration interface.

Step 2 Click "Add" to get into new add strategy, as shown in figure.

+ Add Strategy		×	+ Add Strategy		×
Camera			Device	➡ 192.168.10.199_CHN001	
License Plate			License Plate		
Strange strategy	Strategy1 +	Delete	Strange strategy	Strategy1 +	Delete
License Plate Lib	▼		License plate Lib	Right-Click and select multiple	
Linkage Scheme	Compare result Send mail		Linkage Scheme	V Compare result V Expired license plate alarm V Send mail V 10 Output	
Defence Time	Defence Time		Defence Time	Defence Time	
	Confirm	Cancel		Confirm	Cancel

Figure 9-5 Add strategy

Step 3 Choose camera and license plate library

Step 4 Set up Similarity and activate Stranger mode.

Step 5 Click "Confirm" to save the settings.



9.3 Vehicle Identify

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

On the main menu page, click

view the detailed interface, as shown in Figure 9-6.

This function only supports the cameras with license plate detection.

Figure 9-6 Vehicle identity interface



Procedure:

Step 1 The license plate recognition camera will be displayed directly in the list area.

Step 2 Click on the working camera.

Step 3 The captured license plate will be displayed in the area below the live video.

Step 4 The associated license plate information is displayed on the right interface.



9.4 License Plate Search

On the main menu page, click

License plate search Retrieve historical data of license plate captures and support multiple search conditions

view the detailed interface, as shown in Figure 9-7.

Procedure:

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

Step 2 Click "Search", the searching results will display .

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

Traffic statistics	AI Reco	ognition	8 License plate	search 🛞	Main	Menu 😵 🕂	à	👤 admin	49	2019	11-11 15:07:04
Time		Search resul	It						.⊛ 1	rack	
2019-11-10 14:56:33		🗆 No.	Camera	Time	License Pla	License plate image	License Plate	Valid Time	Оре	ratio	n 🕇
2019-11-11 14:56:33		□ 1	192.168.0.123_CHN001	2019-11-11 1	.G9	-	Unidentified		đ		23
		□ 2	192.168.0.123_CHN001	2019-11-11 1	\G9	A69	Unidentified		đ		엳
License plate (optional)		3	192.168.0.123_CHN001	2019-11-11 1	.G9	NG9	Unidentified		đ	2	면
		4	192.168.0.123_CHN001	2019-11-11 1	G9	- A69	Unidentified		đ		면
Device		□ 5	192.168.0.123_CHN001	2019-11-11 1	3J2	BJ2	Unidentified		6		면
		6	192.168.0.123_CHN001	2019-11-11 1	J2	J2	Unidentified		đ	2	멷
		07	192.168.0.123_CHN001	2019-11-11 1		5	Unidentified		đ	2	엳글
🗌 😋 192.168.0.133		8	192.168.0.123_CHN001	2019-11-11 1	iPO	5PO	Unidentified		đ		연극
192.168.0.123		9	192.168.0.123_CHN001	2019-11-11 1)48]]48	Unidentified		đ		엳
2 192.168.0.195		🗆 10	192.168.0.123_CHN001	2019-11-11 1	iPO	50	Unidentified		đ		연극
192.168.10.199		□ 11	192.168.0.123_CHN001	2019-11-11 1	PO	<u>5PG</u>	Unidentified		đ	2	연
		12	192.168.0.123_CHN001	2019-11-11 1	PO	520	Unidentified		đ	2	연
		13	192.168.0.123_CHN001	2019-11-11 1	PO	i jPO	Unidentified		٦		연
		14	192.168.0.123_CHN001	2019-11-11 1	5P0	JPO	Unidentified		٦		23
		15	192.168.0.123_CHN001	2019-11-11 1		3335	Unidentified		đ	2	연
		🗆 16	192.168.0.123_CHN001	2019-11-11 1	333	335	Unidentified		đ	2	연
		17	192.168.0.123_CHN001	2019-11-11 1		3335	Unidentified		đ	2	23
		🗆 18	192.168.0.123_CHN001	2019-11-11 1	33	35	Unidentified		đ		23
		🗆 19	192.168.0.123_CHN001	2019-11-11 1		3335	Unidentified		đ	2	23
		20	192.168.0.123_CHN001	2019-11-11 1	333	5	Unidentified		đ	2	23
		21	192.168.0.123_CHN001	2019-11-11 1		5	Unidentified		đ		23
		22	192.168.0.123_CHN001	2019-11-11 1	133	15	Unidentified		đ		23
		23	192.168.0.123_CHN001	2019-11-11 1	G9		Unidentified		۵		23
		24	192.168.0.123_CHN001	2019-11-11 1	.G9	4G9	Unidentified		۵	2	9
Reset Search		< <	1 • > >I	50 🔻	Total : 35	1					

Figure 9-7 Intelligent search

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

Step 5 Click "Track" to form the track of car.

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



10 Multi-target Recognition

10.1 AI Recognition

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

This function only supports AI cameras and vehicle cameras.

6

On the main menu page, click

view the detailed interface, as shown in Figure 10-1.



Figure 10-1 AI recognition

Table 10-1 AI recognition

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



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



Camera	🔻 🗆 🚓 default	
	🗆 👫 Sofia	
	🖬 🖼 192.168.32.89	
	🗆 🖙 192.168.0.253	
Snapshot type	🗹 Car 🛛 🗌 Person or Bicycle	
	Confirm Cancel	



Figure 10-3 Resource statistics





10.2 Person and Car Search

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

This function only supports AI cameras.

On the main menu page, click



view the detailed interface, as shown in Figure 10-4.

Procedure:

Step 1 Choose the type, car or person.

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

Step 3 Set license plate, it is optional.

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

Figure 10-4 Person and car search





10.3 Traffic Statistics

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

This function only supports AI cameras.

Choose month, day, or hour to count.



On the main menu page, click

view the detailed interface, as shown in Figure 10-5.



Figure 10-5 Traffic statistics



Figure 10-6 Device traffic





11 Attendance

11.1 Attendance Configuration

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

Figure 11-1 Attendance configuration

Attendance preview 🛛 🛞	Attend	lance config	⊗ +				👤 admin 🛛 57 2019-11-11 16:12:
Attendance Group Schedu	ile Mana	ge <mark>1</mark> Set	ting				
Attendance Group	+	RD				X Delete att	endance group <mark>3</mark> ∠ Edit attendance group
Default		Person lis	t manage				
🗎 RD		No	Name	Gender	ID Card		Face Library
test			ни	Female	1001		Default Library
test			UNKOWN	Female	1002		Default Library
				Female	1003		Default Library
		4	тус	Female	1004		Default Library
			WB	Male	1005		Default Library
			GBZ	Male	1006		Default Library
				Male	1007		Default Library
				Male	1008		Default Library
			MZW	Male	1009		Default Library
		10	TZQ	Male	1010		Default Library
		11	LBY	Male	1011		Default Library
		12	LHF	Male	1012		Default Library/RD
			ТҮМ	Female			Default Library/RD
		14	LBL	Male	1014		Default Library/RD
				Male			Default Library/RD
		16		Male	1016		Default Library/RD
				Male			Default Library/RD
		18	LFC	Male			Default Library
			cartoon	Female			Default Library 4
		20	LXH	Female	1021		Default Library
		4	eve	MALL.	1000		Default Liberry (DD
				50 🔻 Total : 22 🗗			

Table 11-1 Attendance

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



11.1.1 Attendance Group

Procedure:

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



+ Add attendance	×		
Attendance Name			
	Save	Cancel	

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

	8	0		
<table-cell> Person list manage</table-cell>				×
Attendance Group: week				
Face Library	0/713	🗆 week		0/0
 Default Library M A RD A TP A school HU MZW TZQ XHB ZRB LBY SGJ CC CJL TJ FJC LFC 	Ť			
			Save	Cancel

Figure 11-3 Person list manage

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

Step 4 Click "Save" to save the settings.

Step 5 Click "Edit attendance group" to modify.



11.1.2 Schdule Manage

Figure 11-4 Schedule manage

Attendance Group Schedule Manage Setting											
	Default										
🗎 Default	⊗ Shift setting 🔞 Group daily scheduling 🕂 Add temp shifts										
	No. Name Attendan				Scheduling						
test											
week											

Procedure:

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

Figure 11-5 Shift setting

Shift setting													×
Shift setting	Shift maintena	nce											
+ Add	× Delete	Shift nar	ne:		默认班								
默认班次		Cycle:				Wee							
		■日常	迎次					+	Add tin	ne 🗙	Delete tim	ie 🗐 (Clear
		Mon					11:00			18:00			
		Tues					11:00			18:00			
		Wed					11:00			18:00			
		Thur					11:00			18:00			
							11:00			18:00			
		Sat											
		Sun											
									OI	(Cancel	Ap	oply

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

Step 3 Set the name and cycle of shift schedule.

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



Figure 11-6 Add time



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

Figure 11-7 Shift maintenance

Shift setting				×
Shift setting	Shift maintena	ince		
+ Add	× Delete	Name:	daily schdule	
daily schdule		Show color: Attendance rule	•	
		Working time:	Working hours: 11:00 Off work hours: 18:00	
		☑ Must Check in:	Check-in time: Before work 90 After work 30 min;	
			Allow late check-in 1 min,More than late Not checked in at the valid time,Note Completion 3.5 hrs;	
		Must Check out:	Check-out time: Before get off work 20 after work 240 min;	
			Allow early leave after work 1 min,More than early Notcheck out at valid time,Note Completion 3.5 hrs;	
			OK Cancel App	oly

Step 6 Click "OK" to save the shift setting.

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


Figure 11-8 Daily scheduling

🛱 Daily Scheduling	9			0	×
Attendance Group					
Shift	default sch	dule			
Start date	2019-11-11				
End date	2019-12-11				
☐ Free Check-in	🗌 Free Che	eck-out 🗌 Ho	oliday attenda	ince	
ОК			Cancel		

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

∠ Staff scheduling							×
+ Add temp shifts	Attendance staff: TYN	Л	Attendance Librar	ny: RD			
Daily scheduling	Period	Please	enter a time perio	d 🔻			
default schdule(RD)	Effective time	2019-1		₹ 2019-11-12			
Tamp schaduling	Free Check-in	🗌 Free	e Check-out	🗌 Holiday i	attendance	Copy to	Apply
daily scheduling 2019-11-30~2019-12-06	daily schdule				All scheduling	- 2019	
New temp shift1*	Mon	Tues	Wed	Thur		Sat	Sun
2019-11-11~2019-11-12							
			I 11:00~18:00	11:00~18:00	I 11:00~18:00		
	I 11:00~18:00	I 11:00~18:00	I 11:00~18:00	I 11:00~18:00	11:00~18:00		
				14		16	
	I 11:00~18:00	I 11:00~18:00	I 11:00~18:00	I 11:00~18:00	11:00~18:00		
	18		20				24
	I 11:00~18:00	I 11:00~18:00	I 11:00~18:00	I 11:00~18:00	I 11:00~18:00		
		26		28	29	30	
	I 11:00~18:00	I 11:00~18:00	I 11:00~18:00	11:00~18:00	I 11:00~18:00 I	11:00~18:00 I	11:00~18:00
	11:00~18:00	l 11:00~18:00	I 11:00~18:00	I 11:00~18:00	11:00~18:00		

Figure 11-9 Add temp shifts

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

11.1.3 Attendance Setting

11.1.3.1 Attendance Point

Procedure:

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



Figure 11-10 Attendance point

Attendance Group Sch	edule Manag	je Settin	g							
Attendance Point	Attendan	ce Point —								
Holiday Maintenance App timing push	No. Camera 1 192.168.10.209 2 192.168.10.210	No. Camera + New Attend	+ New Attendan Camera Enable Attendance Library	nce Point			status C		+ A ration × ×	Add X Delete
			A test		6 1					
					Save	Cancel				

Step 2 Choose the camera, enable the function.

Step 3 Tick the attendance library.

Step 4 Click "Save" to save the settings.

11.1.3.2 Holiday Maintenance

Procedure:

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

tendance Group Sche	edule Manage	Setting					
Attendance Point	Holiday Mair	ntenance					+ Ade
Holiday Maintenance		Holiday name	Holiday days	Start Time	End Time	Operation	
App timing push	1	new year	3	2020-01-01	2020-01-03	∠ ×	
		+	Add holidays		×		
			Holiday name				
			Start Time	2020-01-01			
			End Time	2020-01-03			
					OK Cancel		

Figure 11-11 Holiday maintenance



Step 2 Input the holiday name.

Step 3 Set the start time and end time.

Step 4 Click "OK" to save the settings.

11.1.3.3 App Timing Push

Procedure:

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

Attendance Group Sch	edule Mana	ige S	etting			
Attendance Point	APP tim	ing push				
Holiday Maintenance						+ Add
 App timing push 	NO.	Attendanc	Push content	Notice to	Push status	
			+ Add push rules		×	
			Attendance Group			
			Push status			
			Push content	Late INot check in Leave Early Not check out		
			Notice to	Select All		
				OK Car		

Figure 11-12 App timing push

Step 2 Choose the attendance group, enable "Push Status".

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

Step 4 Click "OK" to save the settings.



11.2 Attendance Preview

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

This function only supports face detection cameras.

On the main menu page, click

to view the detailed interface, as shown in Figure 11-13.



Figure 11-13 Attendance interface

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



Procedure:

- Step 1 Select a display device to play live video.
- Step 2 The personnel information captured by the device when the staff pass the attendance point
- Step 3 Click the Settings icon to set the attendance related parameters.

Figure 11-14 Card parameters of library

			×				×
Card Size	Medium			Card Size	Mediu	ım	
Stranger				Stranger			
Attendance Library	Stranger			Attendance Library	Strang	er	
Period	Attendance time			Period	All D	ау	
Sign In	🗹 Name	🗌 Time		Voice		welcome	
	Punch successfu	ıl					
Sign Out	🗹 Name	🗌 Time					
	Punch successfu	ıl					
Other	🗹 Name	🗌 Time					
	Mello						
		ОК	Cancel			ок с	ancel



11.3 Attendance Statistics

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



On the main menu page, click

to view the detailed interface, as shown in Figure 11-15.

									👤 adı	nin 🧐 2019-11-11 19:35:5!
Data										
Attendance Library		Attendan	ce Statistics							⊥ Export
 ✓ ♣ Default ✓ ♣ RD 	î	Number	Name	Department	Should	Real	Completion	Late	Leave Early	Late And Leave Early
		1001		RD						
Z LXJ		1002	UNKOWN	RD						
VR		1003	LXJ							
GBZ		1004	TYC	RD						
IG V IW		1005	WB	RD						
MZW		1006	GB7	RD						
Z TZQ		1007		RD						
		1008	IW	RD						
V TYM		1000	N/71//	PD						
OFX		1010	170	RD						
✓ PZL ✓ 123	Ų	1010	12Q	RD RD						
		1011	LBY	RD						
Time		1012		RD						
Month		1013	TYM	RD						
Wonth		1014	LBL	RD						
Customer Time		1015	OFX	RD						
		1016	PZL	RD						
			LFC	RD						
Query Type			cartoon							
		1021	LXH							
Attendance Statistics		1022	GYC	RD						
		1023								
Reset Search										
iteset Search				>> 50		otal : 22				

Figure 11-15 Attendance data

Procedure:

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



12 Temperature Monitor

12.1 Temperature Screening



to view more detailed interface, as shown in Figure 12-1

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

This function is only subject to body temperature cameras.





Table 12-1 Temperature screening

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



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

Figure 12-2 Full screen face card





Figure 12-3 Display Setting

Setting				×
Display settings Speech				
Image display mode	Default mode Privacy model			
Capture image processing	Mosaic treatment			
Screen display content	Show custom text		Text setting	gs
Full screen layout	Full-screen Face Card			
Card Size	Middle			
Temperature measurement results	Show body temperature			
Stranger				
Stranger display name	default			
Registered personnel display name	Name -			
	C	Ж	Cancel	Apply

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

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

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

Card size: middle, big, small.

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

Enable or disable stranger

Stranger display name: custom the showing name of stranger.

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



rigule 12-4 Speech setting of shanger	Figure	12-4	Speech	setting	of stranger
---------------------------------------	--------	------	--------	---------	-------------

				×
Display settings Spee	ech			
+ Add	Broadcast content:	✓ Stranger	Vistor	
		🗌 Time		
Stranger Registered 1		🗹 Body temperature	Over temperature	
		🗹 Normal Temperature	pass	
		Over temp	can not pass	
		Abnormal temperature	Abnormal temperature	
		🗌 Mask	No mask	
			no mask	
		Customer Time	hello vistor	
	Broadcast time:	Time setting		
			OK Cancel	Apply

Figure 12-5 Speech Setting of registered

② Setting				×
Display settings Spee	ech			
+ Add X Delete	Face Library:	Check the subordinate	e at the same time	Î
Stranger Registered_1		▼ <mark>⊠</mark> 뷰 Default Library □ 뷰 School ▶ □ 뷰 personnel	, library	
	Broadcast content:	☑ Name □ Time		1
	l	🗹 Body temperature	Over temperature 👻	
		🗹 Normal Temperature	Passable	
		Over temp	e temperature is too high to pass	
		Abnormal temperature	rmal, re measure the temperature	
		🗌 Mask	No mask 🔹	
			No mask	
		Customer Time	Hello	•
			OK Cancel Ap	ply

Tick the speech content, such as stranger, time,



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



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

Body temperature privacy mode	•
Default	ľ
Face privacy mode	
Face privacy mode (video)	
Body temperature privacy mode	







Figure 12-7 Face privacy mode

Temperature Config 🚳 Temperature Screening 😔 +		👤 admin 🛛	3 2020-05-29 09:21:51
I Data statistics Default group •	I Temperature record		
[Default group] Temperature 7 Snup Court • Total 7 • Over temp2		Stranger 09:16:14 Channel01 36.0°C	NOMASK
Device list A Default group - @ 19210632193 Oddewe01 @ Channel13 c		Stranger 09:16:09 Channel01 37.0°C Stranger 09:15:07 Channel01 26.0°C	NO MASK
Cver temp Srapshot	*	Stranger 09:15:02 Channel01 36.2°C Stranger 09:11:57 Channel01	

Figure 12-8 Face privacy mode (video)



The reminder of no mask is set at "Server > CMU > Setting" interface. Enable the mask recognition. If the

function is disable, the

will not appear.



12.2 Temperature Configuration



to view more detailed interface, as shown in Figure 12-9.

On the main menu page, Click

This function is only subject to thermal cameras.

Procedure:

Step 1 Click "Temperature" to modify temperature configurations.

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

Step 3 Click "Save" to save the settings.

Face Recognition	⊗ Temperature Screening ⊗	Temperature Config 🛛 😣	+	👤 admin	65 2020-06-02 14:51:26
Temperature Param	_				
		Abnormal temperature measurement	0		
		Lower Temp Threshold	35.9		
		Over Temp Threshold	100.0		
		Alarm Interval	60		
		Normal Body Temperature	36.0 °C _ 37.3		
		Αρρίγ			

Figure 12-9 Temperature

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

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

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



12.3 Temperature Search

On the main menu page, Click

to view more detailed interface, as shown in Figure 12-10.

This function is only subject to body temperature cameras.

Figure 12-10 Temperature search



Table 12-1 Temperature search

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



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

Procedure:

Step 1 Choose the type and library of searching.

Step 2 Set the start and end time.

Step 3 Choose the personnel and temperature type.

Step 4 Click "Search" to view the result.

Step 5 Click "export" to export the result to local folder.

Figure 12-11 Mode of exporting



There are three modes to export the result of searching.

No graph mode: only basic information, no graph.

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

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



12.4 Health Archives

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

This function only supports body temperature cameras.

12.4.1 Arrchives Manage

Live View-1	8			⊗							👤 admin	50	2019-11-11 20:40:34
Archives Manage	Archives	Search											
 ★ Default Library ★ RD ★ TP ★ school HU MZW TZQ XHB ZRB LBY SGJ CC CJL TJ FJC LFC PLL HMH UY UNKOWN cartoon FSC XJN LXH UN GBZ LG LW 	1		Health An Health An Physical exam Height: Major medic Family medic Body temp 40 38 33 36 35	chives mination dat al history: coerature f	Name: Birthday: Class: ta	HU 2000-01-01 Default Library Weight:	Gender: ID Card: Creation T	female 1001 me: 2019-10- Visit	2 ∠ Update	Dynamic	11-10		3

Figure 12-12 Health archives

Table 12-1 Health archives

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



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

12.4.2 Archives Search

Procedure:

Step 1 Input the name.

Step 2 Select the face library.

Step 3 Click "Search" to query the archives search.

Step 4 The result will show on interface.

Step 5 Click "Export" to export the result to local folder.

Figure 12-13 Archives search

Archives Manage Archives Search Name: Face Library: A Default Library ID Card: Q Search ① Search ② Search ③ Search ③ Search ③ Search ③ Search ③ Search ③ Search ④ Se	Health Archi	ves +									👤 admin	46 20	19-07-18 11:09:
Name: Face Library: Default Library: ID Card. Q Searth O Searth<	Archives Ma	inage Arc	chives Search	1									
No. Name Class Number Height Weight Vision Major medical history Family medical history More 1 mrwang Default libr 10021 Ź 2 dajie Default libr 10021 ✓ Ź 3 lxh Default libr 10023 ✓ ✓ Ź 4 WHL Default libr 10025 182cm 76kg 1.2/5.4 无 无 无 ✓ 5 LR Default libr 10027 ✓ ✓ ✓ ✓ ✓	Name:		Face Librar	ry: 👫 Default	Library		ID Card:					Q Search	⚠ Export
1 mrwang Default Libr 10021 人 2 dajie Default Libr 10023 人 3 kuh Default Libr 10025 182cm 76kg 1.2/5.4 元 元 4 WHL Default Libr 100205 182cm 76kg 1.2/5.4 元 元 5 UR Default Libr 100207 ど ど ど ど	🗆 No.	Name	Class	Number	Height	Weight	Vision	Major medical h	istory	Family medical history	More		
2 dajie Default Libr 100201 ////////////////////////////////////		mrwang	Default Libr	10021							2		
3 bh Default Libr 10023 二 二 二 4 WHL Default Libr 100205 182cm 76kg 1.2/5.4 王 元 二 5 LR Default Libr 10027 ご ご 二	□ 2	dajie	Default Libr	100201							∠		
□ 4 WHL Default Libr 100205 182cm 76kg 1.2/5.4 无 元 之 5 LR Default Libr 10027		lxh	Default Libr	10023							∠		
□ 5 LR Default Libr 10027	□ 4	WHL	Default Libr	100205	182cm	76kg	1.2/5.4	无		无	∠		
	□ 5												



12.5 Temperature Statistics



On the main menu page, Click

to view more detailed interface, as shown in Figure 12-14.

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





The pie chart can show by temperature or mask.

12.5.1 Organization Over Temperature

Procedure:

Step 1 Select the face database and summarize the type. You can view a summary of the month or day.

Step 2 Set the display sort type.

Step 3 User can click "Export" to export the statistics.



12.5.2 Personnel Grouping Over Temperature



Temperature Statistics +		👤 admin 🛛 🚳 2020-05-27 20:04:10
Organization overtemperature Personnel grouping over temperature	re Overtemperature of personnel	
OverTemp Statistic Num	🚡 Default Library 👻 All	• Month Day 2020-05-20-2020-05-27 □ Sort ↑ J
	Default Libraty	
2020-05-20~2020-05-27 Default Library DayOverTemp Statistic Num		2020-05-20-2020-05-27 Default Library DayStatistical Distribution of Overtemperature
— Defau	JII Library	
	/	By Etrolo *
	/	Total ● Influenza 79.4% 50
		63 • Aftosa 20.6% 13
0 2020-05-20 2020-05-21 2020-05-22 2020-05-23	2020-05-24 2020-05-25 2020-05-26 2020-05-27	

Procedure:

Step 1 Select the face database and summarize the type. You can view a summary of the month or day.

Step 2 Set the display sort type.

Step 3 Results can be exported to a local folder.

Step 4 Select to view the personnel over temperature.

12.5.3 Over Temperature of Personnel

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



Figure 12-16 Person Over Temperature





13 Thermal Imaging

13.1 Thermal Image History

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

This function only supports temperature detection cameras.

On the main menu page, Click

to view more detailed interface, as shown in Figure 13-1.

⊡ rice	Config 🛛 🕺 Thermal Ima	age History 🙁 🕂					.	admin 👩 2020-07-10 15:39::
List Curve g	raph Device 📾 All Device	▼ Area Al	Area * Type All	Keyword Search for devi				
IPC NVR	DVR							
2	1ime 2020-07-09 00:00:01	0-2020-07-10 15:39:26 Emperat	ure 35.8 - 55.	8 4 Iour Interval: No *				5 Search 企 Export
No.	Time	Device Name	Preset	Area	Max Temperature	Min Temperature	Average Temperature	Alarm Temperature
		Test_CHN001					48.90	
	2020-07-10 15:11:30	Test_CHN001						
		Test_CHN001					48.47	
		Test_CHN001					48.88	
		Test_CHN001						25.00
	2020-07-10 15:11:37	Test_CHN001					48.47	22.00
		Test_CHN001					48.88	25.00
	2020-07-10 15:11:37	Test_CHN001		Area3				25.00
		Test_CHN001						22.00
20	2020-07-10 15:11:35	Test_CHN001		Area2		48.28	48.90	25.00
		Test_CHN001						25.00
	2020-07-10 15:11:45	Test_CHN001					48.49	22.00
		Test_CHN001						25.00
		Test_CHN001						25.00
		Test_CHN001						22.00
	2020-07-10 15:11:48	Test_CHN001				48.28	48.88	
		Test_CHN001						
28	2020-07-10 15:11:48	Test_CHN001	0	Area1	48.67	47.95	48.47	22.00
29	2020-07-10 15:11:48	Test_CHN001	0	Area2	52.77	48.26	48.88	25.00
	2020-07-10 15:11:48	Test_CHN001		Area3			48.38	
		Test_CHN001					48.45	
32	2020-07-10 15:11:50	Test_CHN001		Area2		48.24	48.86	
		Test_CHN001						25.00
34	2020-07-10 15:11:59	Test_CHN001	0	Area1	48.67	47.93	48.47	22.00

Figure 13-1 Thermal image interface

Table 13-1 '	Temperature	alarm
--------------	-------------	-------

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



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

Procedure:

Step 1 Choose the group / Organization .

Step 2 Setting Searching starting / ending time, processing.

Step 3 Click "Search" the temperature alarm recording.

13.2 Thermal Image Configuration



to view more detailed interface, as shown in Figure 13-2 $_{\circ}$

This function is only subject to thermal cameras.

Figure 13-2 Thermal image configuration

Live View-1	🛞 Therr			Device Config	⊗ +			👤 admin	64	2019-11-1	1 20:29:25
Device											
✓ ♣ Default ♣ SZSRTEET		Over Tempatu	re Alarm Sn		Alarm Config	1					
■ 192.168.0.168 ■ 192.168.0.167											
192.168.0.199											
192.168.0.169		Snap Interval				sec					
1 69.254.10.50											
		Snap Count				pcs					
		Defence Time		Defence	e Time						
								Conv to	Anni	v	
								copy to	, ddy	,	

Procedure:

Step 1 Select the camera you want to set in the thermal imaging device list.

Step 2 Turn on the over-temperature alarm capture, set the capture interval and the count of captures.

Step 3 Set the arming time, you can pull the mouse, or select all.

Step 4 Click Copy to to copy the setup parameters to other cameras.

Step 5 Click "Apply " to save settings.



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

Figure 13-3 Copy to

	C	_
Devices	Select All	•
	🗹 Select All	
	2 192.168.0.168	CHN001
	2 192.168.0.199	CHN001
	V 192.168.0.169	CHN001
	2 169.254.10.50	CHN001
	Ok	Cancel

13.3 Thermal Image Search

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

This function only subject to the body temperature detection cameras.

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



Figure 13-4 Thermal image interface

Live View-1		Health Archives	⊗			👤 admin	55	2019-11-11 20:48:21
Device	Sei	arch result						⊥ Export
 ▼ ■ . Default ■								
I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								
2019-11-10 20:47:51 • 2019-11-11 20:47:51 •								
Reset Search				50 🔻 Tota				

Table 13-1 Temperature search

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

Procedure:

Step 1 Select the devices.

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

