YXD-F8-A

New Generation for the Face Recognition Temperature Measurement

Selling Points:

A.8 Inch Touch Screen
B.2 Mega infrared Camera x 2
C.CMS(Advertising when Stand by)

Hardware & Technical Specifications	
Display	8 inches
Overall Size	Length 284 * width 140 * height 29mm
Processor	High-performance 32-bit 4-core ARM chip
Flash	8GB
Measurement Mode	Thermographic temperature measurement
Measuring Distance	0.3m - 0.8m (recommended 0.5m)
Communication Method	TTL
Temperature Measurement Accuracy	± 0.2 ℃ ~ ± 0.5 ℃
Operating Temperature	-20 ~ 65 ℃ for
Storage Temperature	-40 ~ 65 ℃ for
Power Supply	3-5V
Electric Current	2ma

Baud Rate	9600/115200
Default Automatic Output Frequency	14Hz
Wavelength Range	8 ~ 14μm
Temperature Output	Real-time parallel output
Temperature Correction	Manual and automatic calibration
Alarm Threshold	Adjustable
Wiegand Interface	Support Wiegand 26 Wiegand 34
Other Interface	232 TTL WIFI RJ45 USB
Style	Symmetrical design, can be hang horizontally and vertically
Camera	200w: USB connector, monocular wide dynamic, anti-glare
	Aperture 2.8, focal length 1.6mm, field angle 130 °, TV distortion <-5%, photosensitive area size 1 / 5-inch
	Pixel: According to customer requirements, ≥ 2 million pixels.
	Assembly angle: flat out
Image Sensor	6mm focal length, F2.4 aperture
Fill light	LED: white light, RGB camera fill light, a control interface in SDK
	NIR: 850nm infrared LED light, IR camera fill light source, with control interface in SDK
operating System	Android 5.1.1 or above
Input Power	DC 12V 2A
Backlight Recognition Iilluminance	<6000Lux
Effective Recognition Distance	0.5m-4m
Working Environment	Indoor and outdoor (with rainproof frame), 10 ~ 90% (non-condensing)
Operating Temperature	-20 ℃ ~ + 55 ℃
Card Reading Speed	0.2S
Matching	Matching
ID Card Reader	Support second-generation ID card recognition function, with control interface in SDK
LTE Function	Support 4G full Netcom Internet access function

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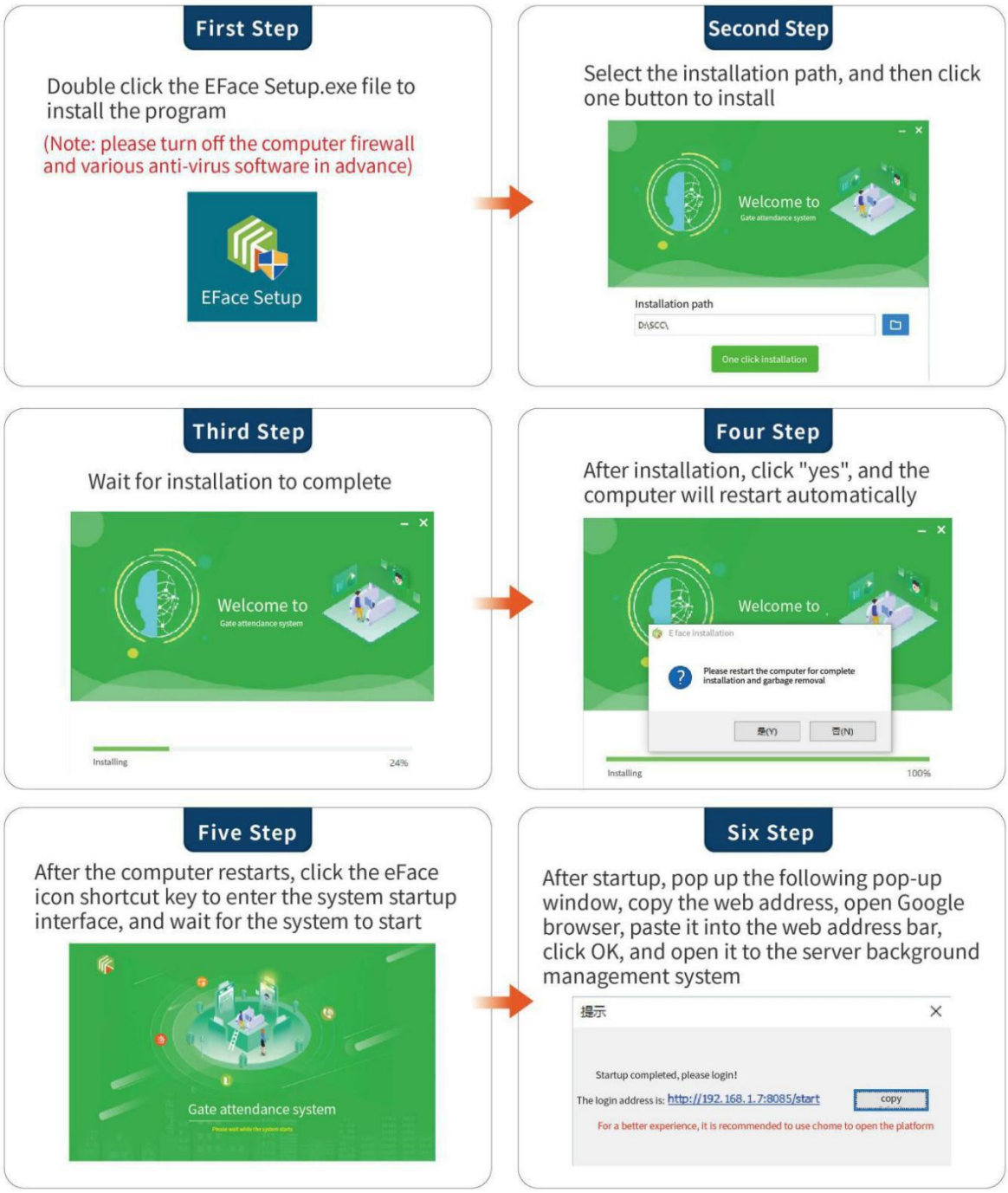
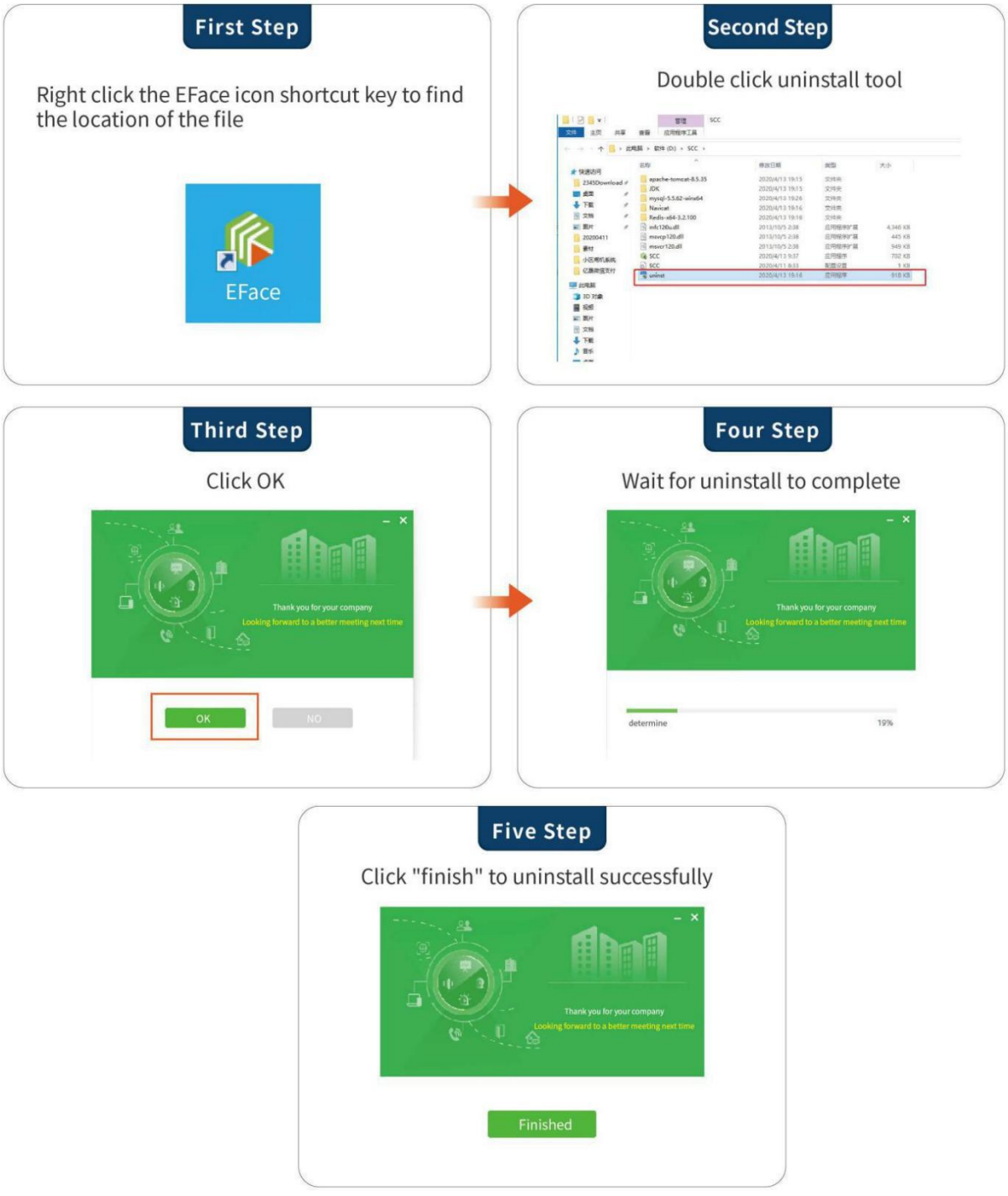
Chapter 1 Introduction to the system

1.1 Server installation steps



1.2 Uninstall steps

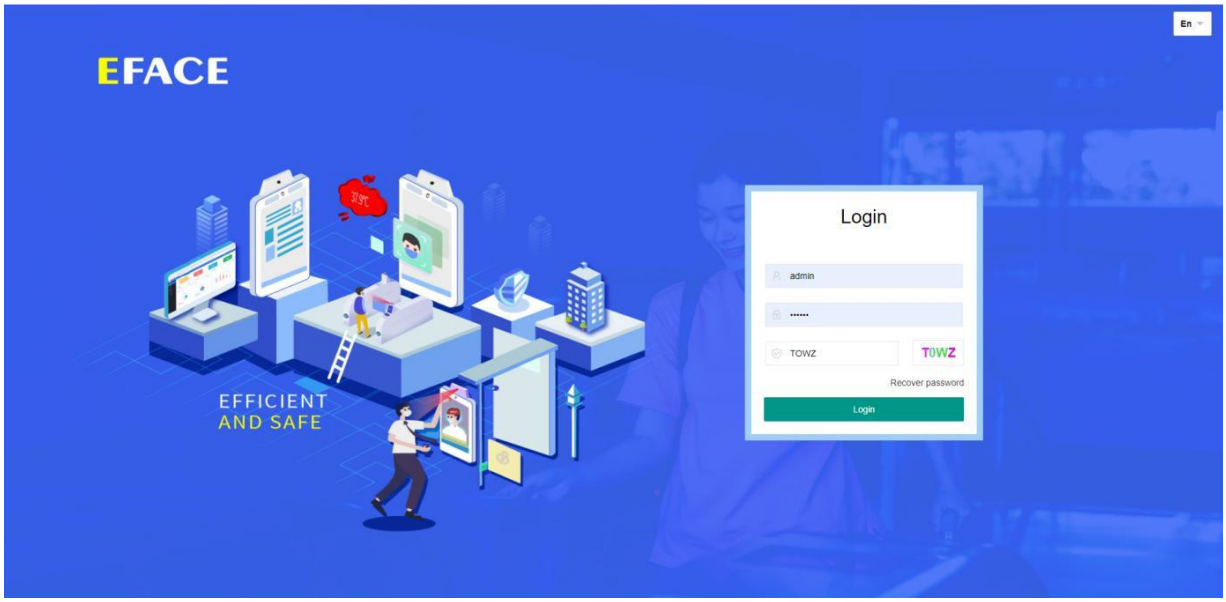


1.3 User Login

Log in with the account password provided by the superior administrator

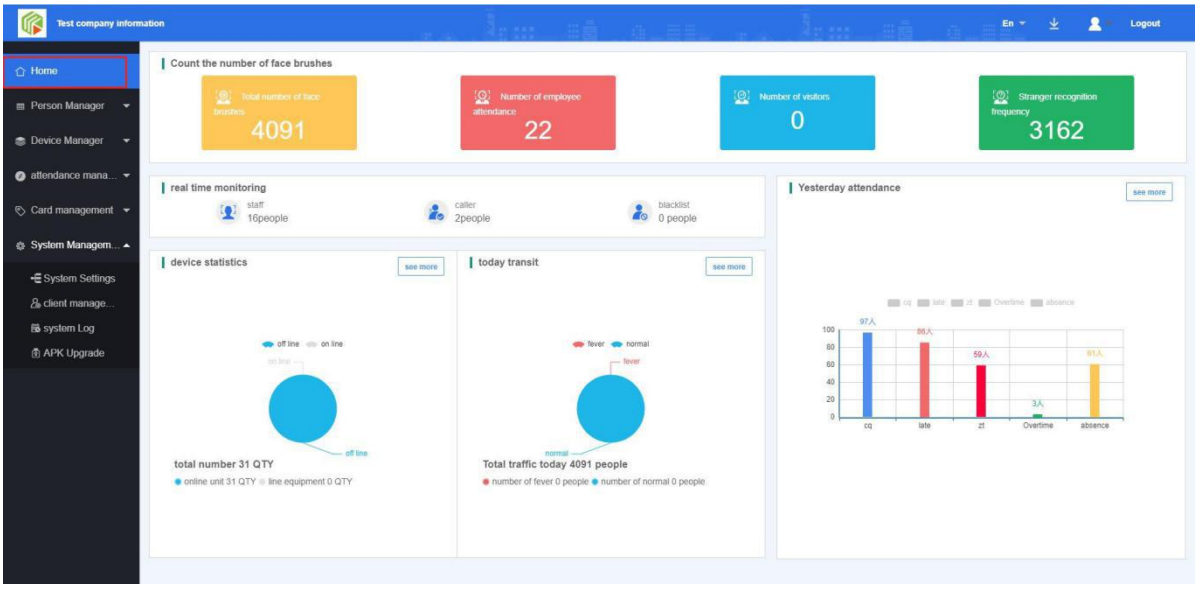
LAN account. Password is admin admin

- If you forget your password, click forget password to retrieve it.



1.4 home page

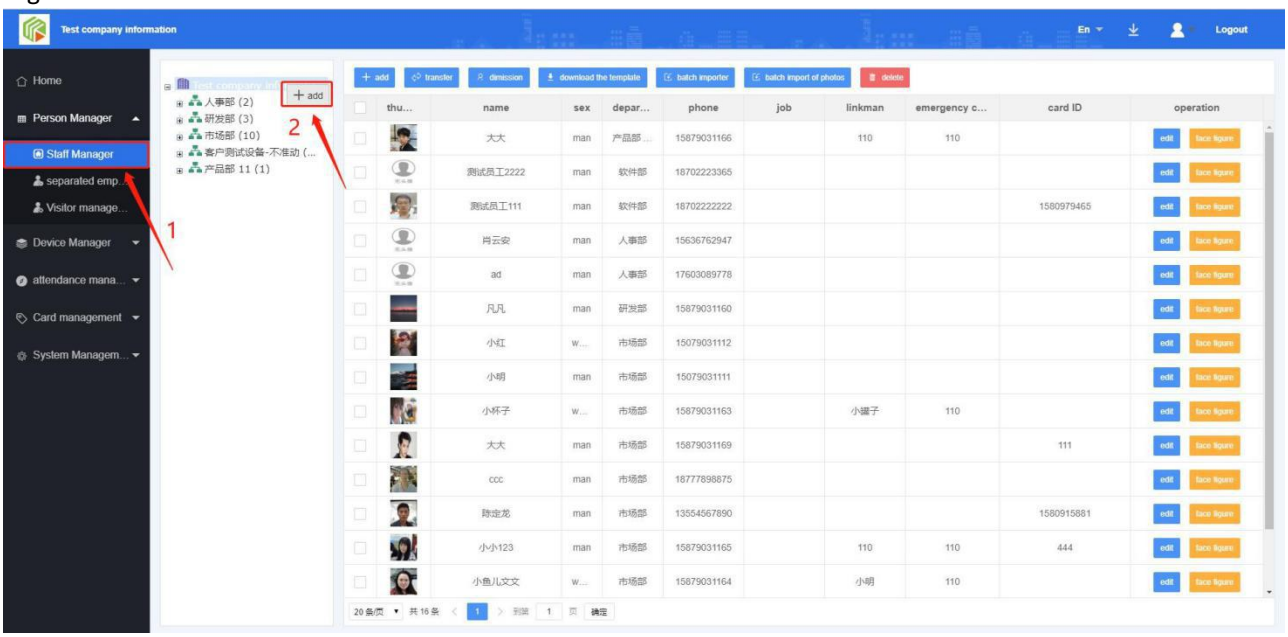
- **Home page information:** click home page, we can see the statistics of face brushing times, online and offline equipment statistics, the statistics of the number of normal traffic and fever today, yesterday's attendance statistics and real-time statistics of employees, visitors, etc. on the current page.



Chapter 2 system use process

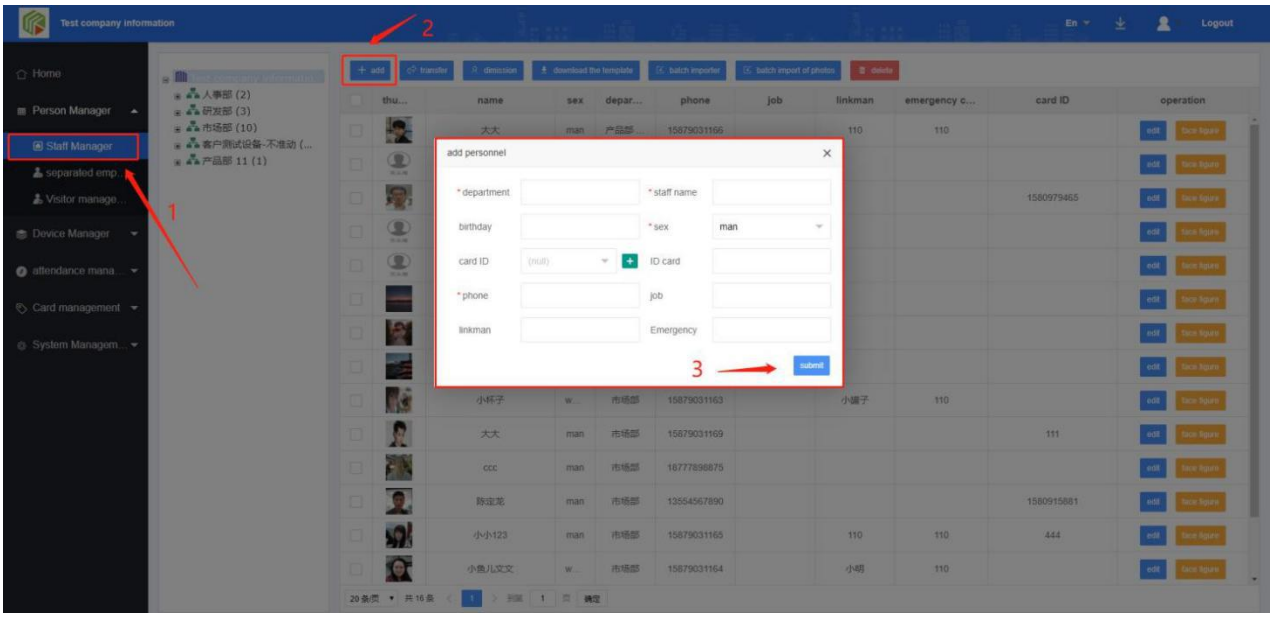
2.1： add group

Right click the organization to open the new group function. Click new group to create a new department organization。



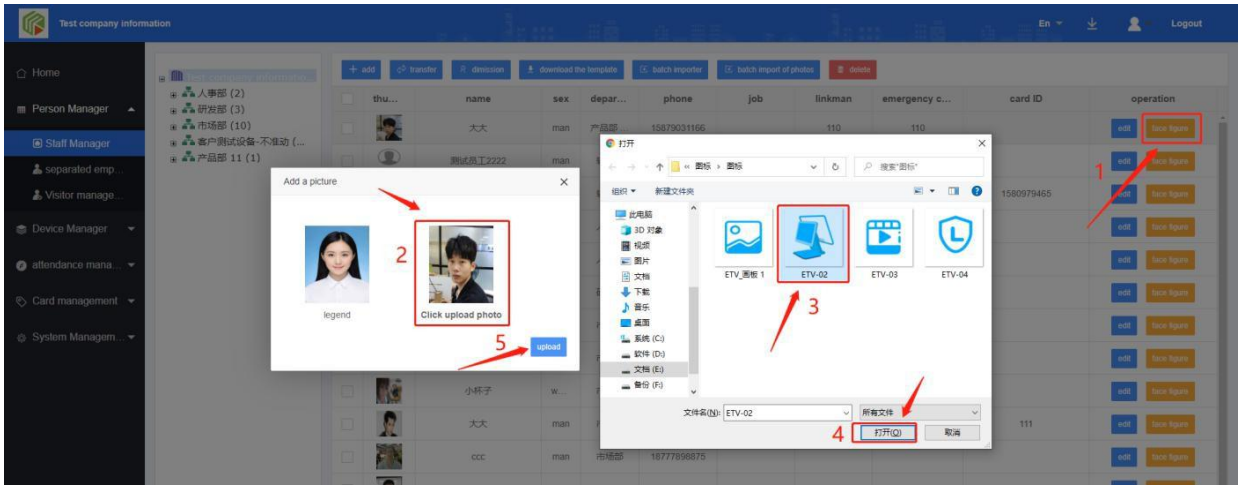
2.2： New employees

Click employee management - add button - a dialog box will pop up. Enter the corresponding information according to the prompt, and click OK。



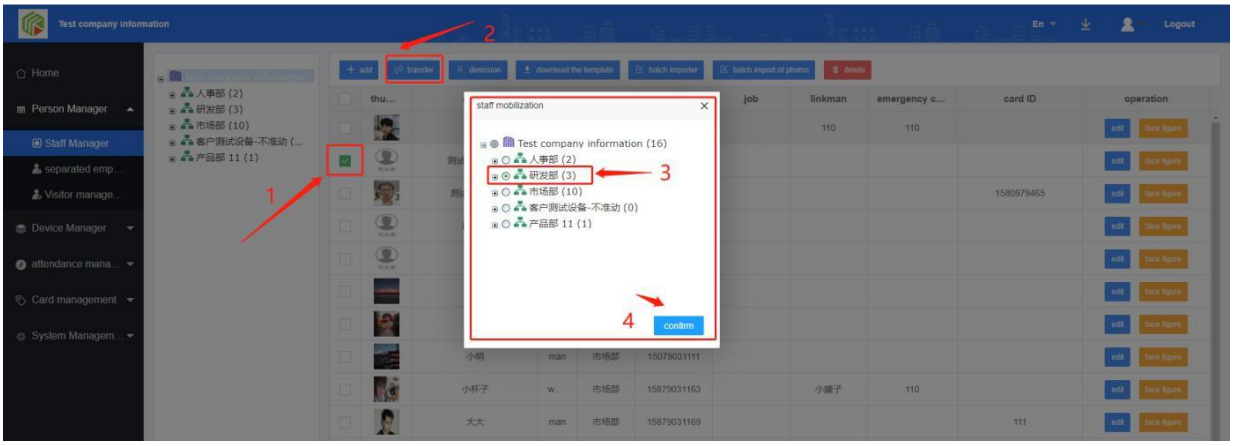
2.3 Add a picture

Click the face map on the right of the person - a dialog box will pop up. Select the image according to the prompt steps and upload it。



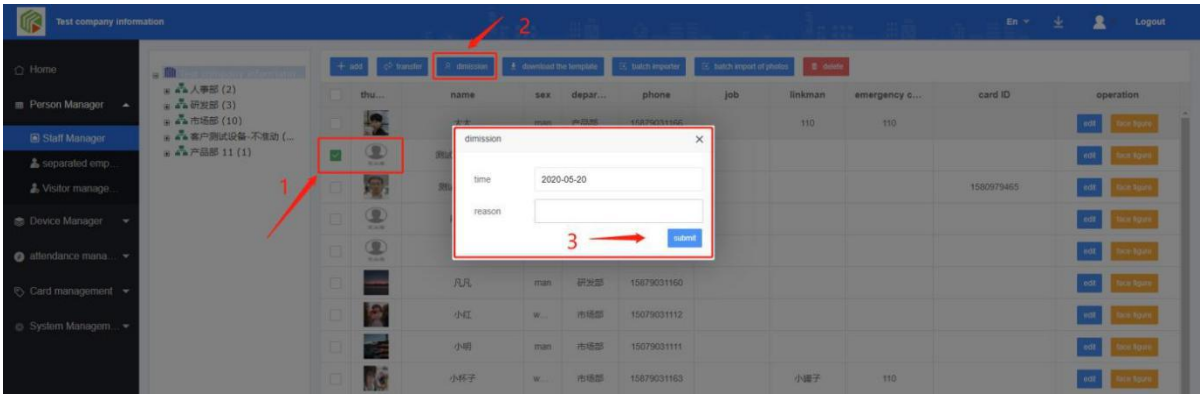
2.4： Personnel transfer

Select the personnel to be transferred, click transfer, select the group to be transferred, and click OK。



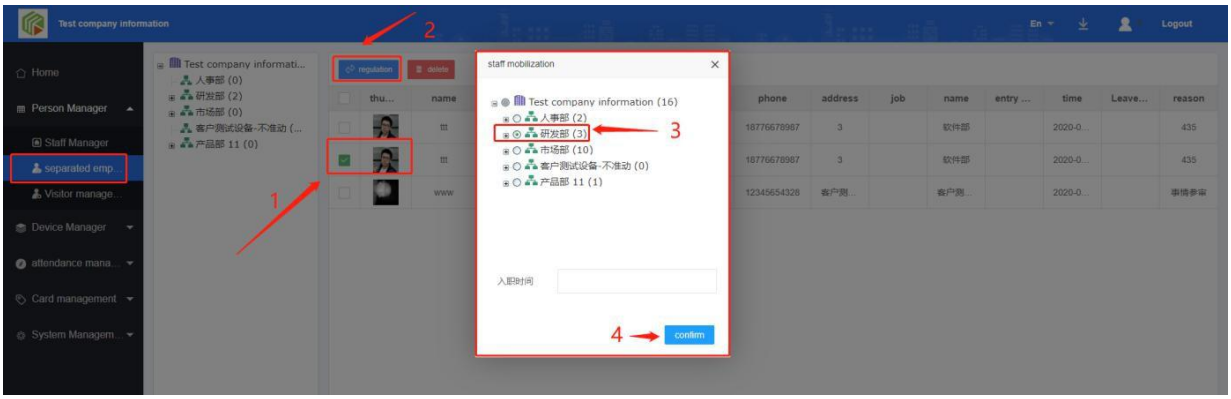
2.5： Resignation

Select the employee to be resigned - click resignation, enter resignation related information, and click OK。



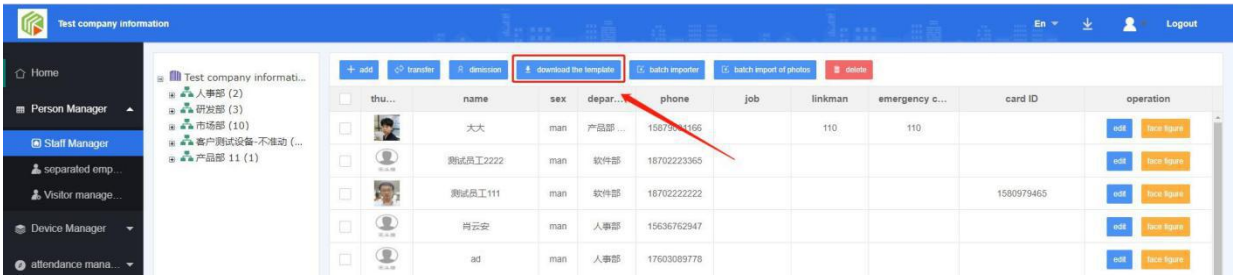
2.6： Reinstatement of personnel

In the resigned employee menu, select the employee to be resigned, click reinstatement - to open a dialog box, follow the prompts, and click OK to restore the position。



2.7： Batch import personnel operation

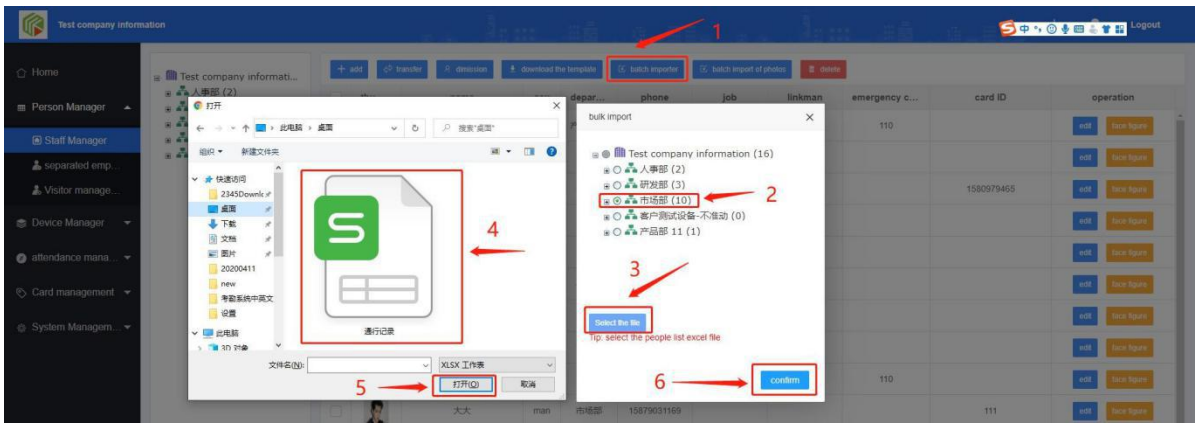
2.7.1： download the batch template, and input the corresponding information according to the prompts in the template。



批量人员信息模板 Batch personnel information template					
姓名（必填） Name(required)	性别（必填） Gender(required)	联系电话（必填） Mobile(required)	身份证 ID	紧急联系人 emergency contact	紧急联系人电话 Emergency contact number

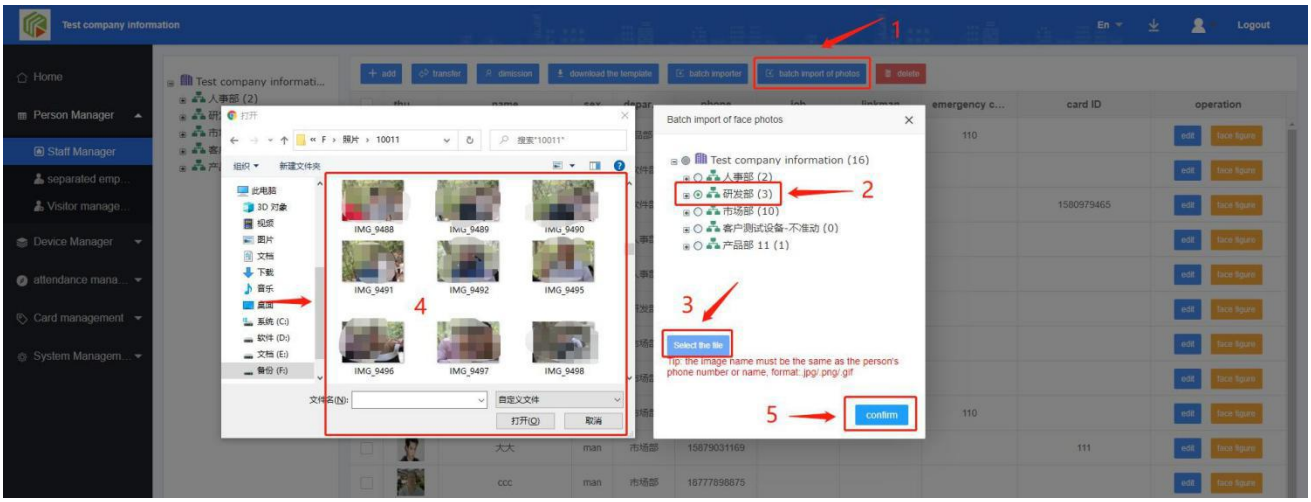
2.7.2： Import template to server

Click batch import personnel - select the Department to import - select the uploaded file according to the prompt, and click OK to complete the operation。



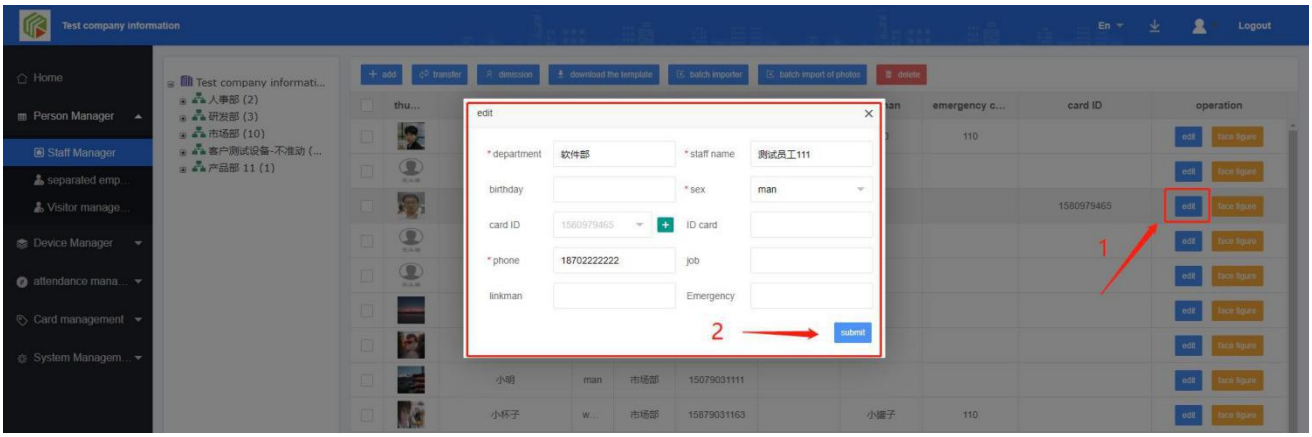
2.7.3： Batch import face pictures

Click batch import face photos, pop up a dialog box, select the organization to import, click add file, select the image to import, and click confirm (Note: the image name must be the name or mobile number to upload successfully)

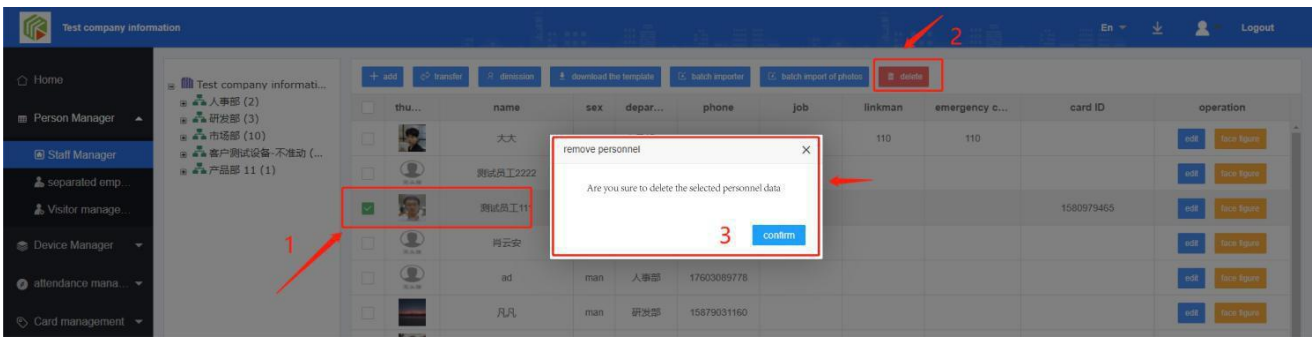


2.7.4： People editing and deleting

Edit: click the Edit button on the right of personnel information to edit and save according to the reminder

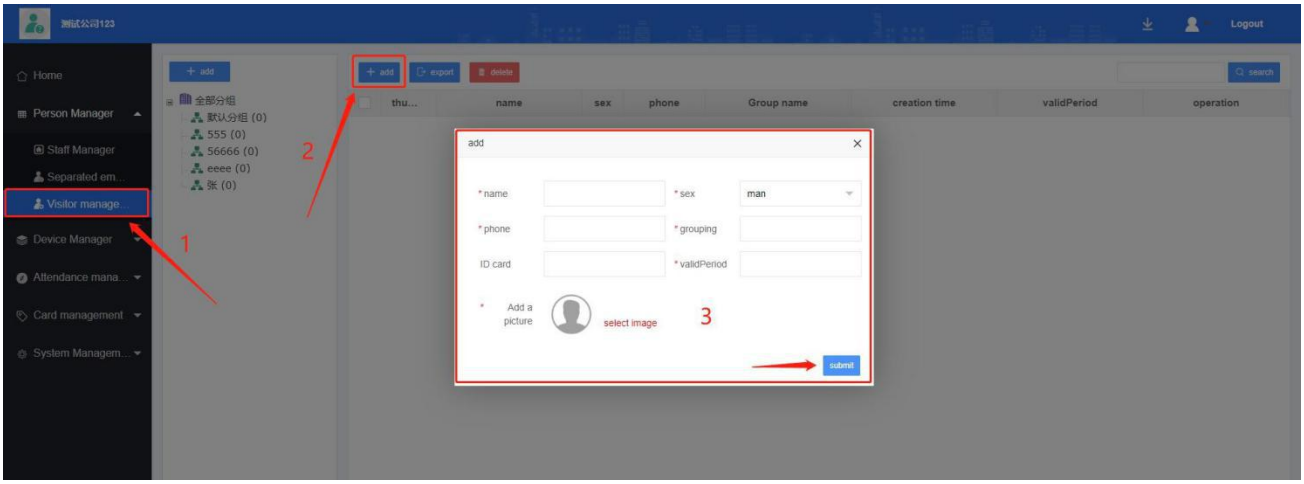


Delete: select the person to delete, click Delete to open a dialog box, and delete according to the prompt



2.8： Visitor management

Click the menu on the left, click the Add button, the input information box will pop up, input relevant information according to the prompt, and click OK to create a visitor

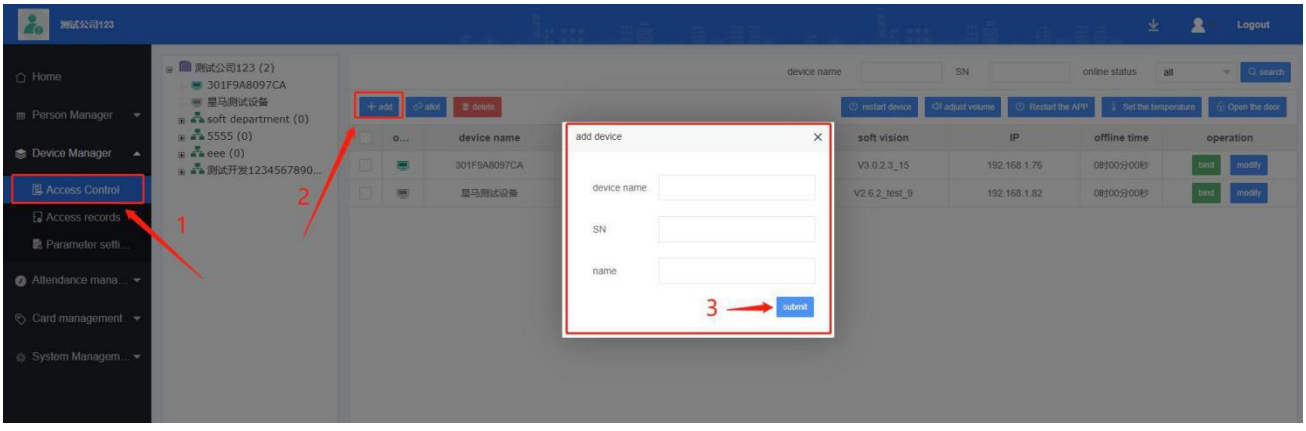


Chapter 3 equipment managment

3.1 access control

Add device

Click access control management - add button - pop up dialog box - input relevant information according to the prompt - click OK to create the device。



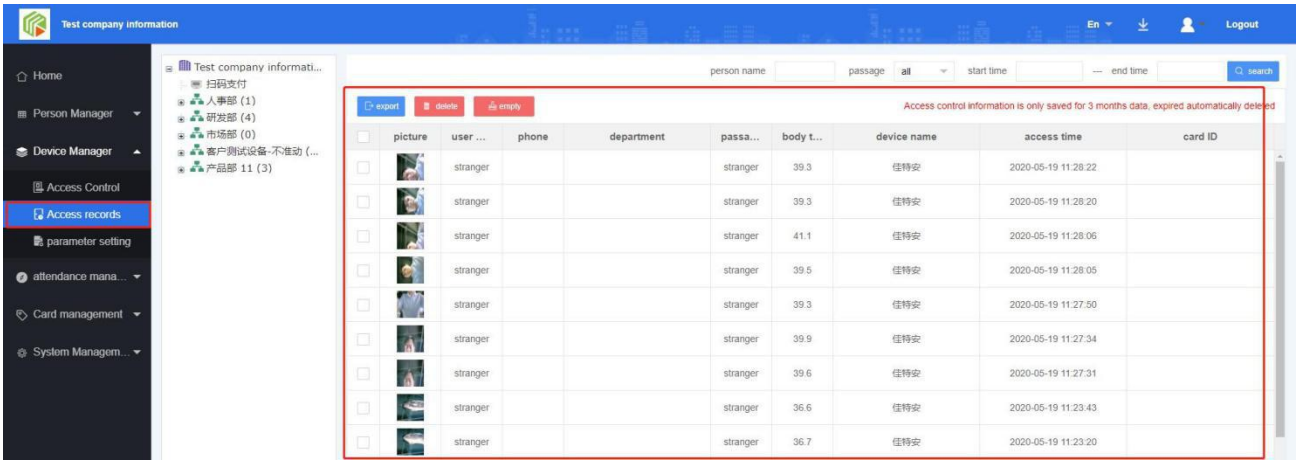
Equipment command operation

Select the device - click the top command operation - pop up the dialog box, and only operate from the。

3.2 Traffic records

Here you can view the access records of all users, accurately view the opening records of any time period of the access control, the way of opening the door, the user's temperature and department, as well as who opened the door, the mobile terminal, swipe the card, face recognition and other relevant information.

The administrator can quickly and accurately screen the high-temperature population according to the user's temperature, and can also count the times of access control according to the access information, as well as the time of opening and closing the door, and the way of opening the door. The age, gender, and other big data information of the door opener. Do some related services and advertising operations behind the crowd information.



Export: click export to export all information of the user's access record delete: check the data to be deleted and click Delete。

3.3 Parameter setting

- **Basic setting**

  You can set the guard status, startup, guard time, and password settings

- **Face parameters**

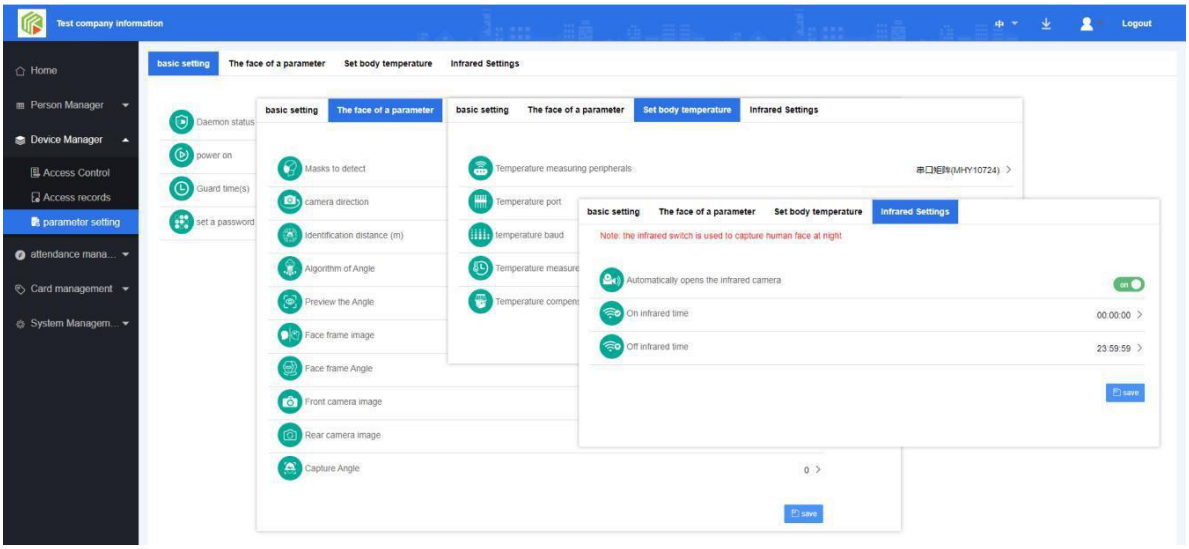
  It can open mask detection, set camera direction, set distance, algorithm angle, preview angle, face frame image, etc

- **Temperature setting**

  Temperature measurement peripheral, serial port, baud rate, time and compensation can be set.

- **Infrared setting**

  It can turn on the infrared camera automatically, set the infrared time on and off



Chapter 4 attendance management

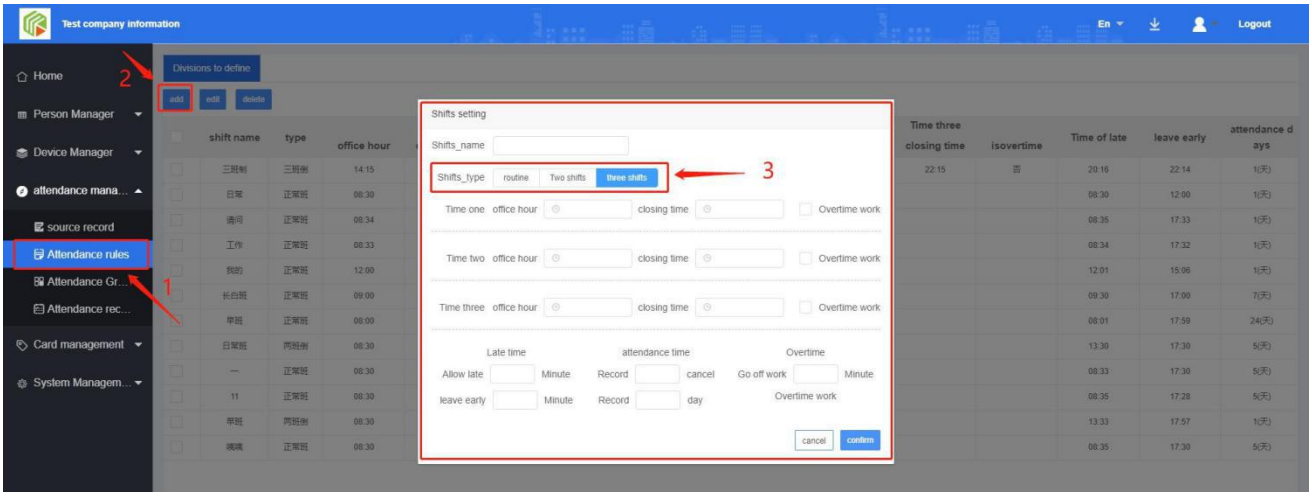
4.1 Original record

Click the original record to view the attendance clock in time, Department, name, position, clock in attribute and other information.

4.2 Attendance rules

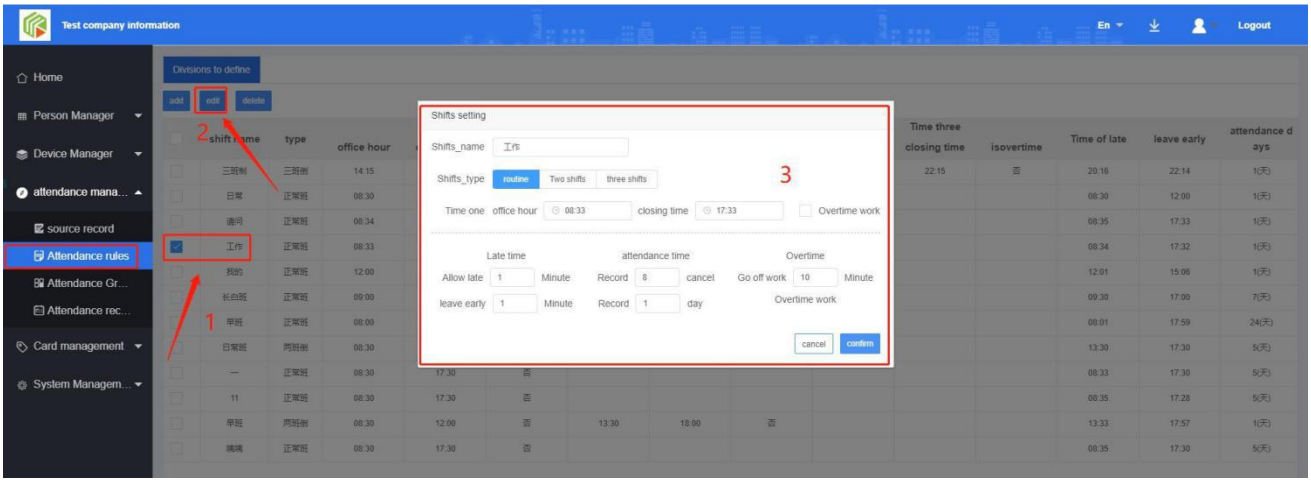
Add: click attendance rule and add to set shift type (regular, two shift and three shift)

- **Late time:** allowed late time and early leave time can be set
- **Attendance time:** how many hours of attendance time can be set as one day
- **Overtime after shift:** set the overtime time after shift as overtime time



- **Edit and delete**

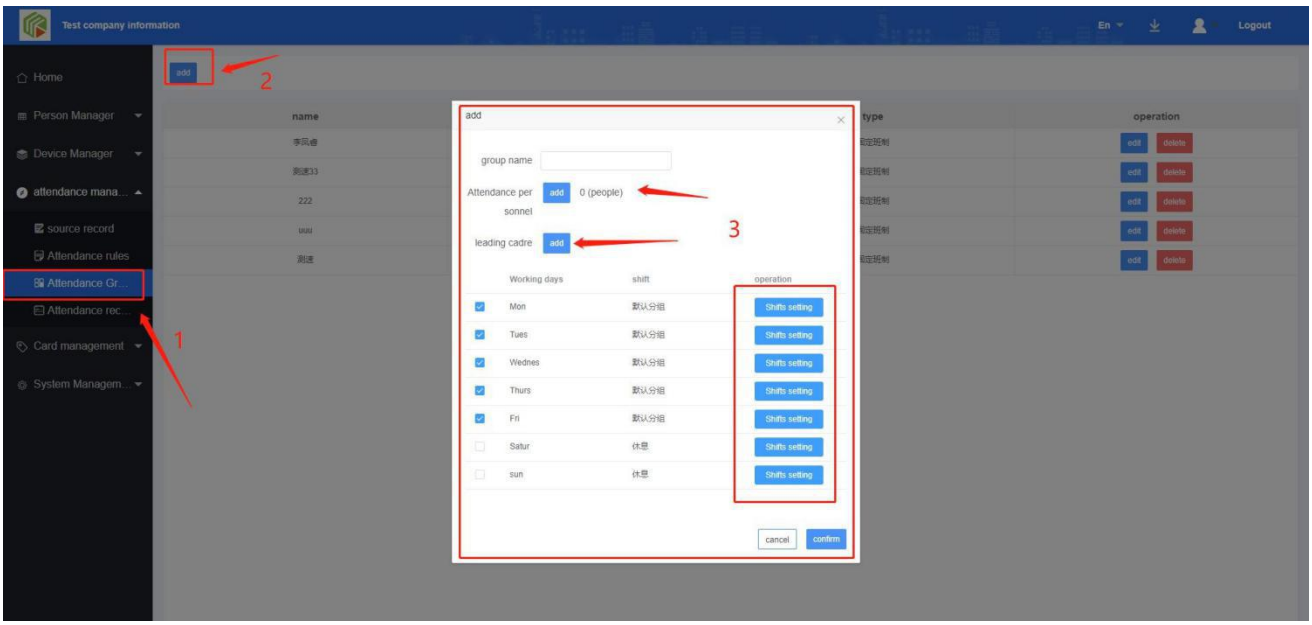
  Check the shift definition information to be edited or deleted, and click the relevant button to operate



4.3 Attendance group

- **New**

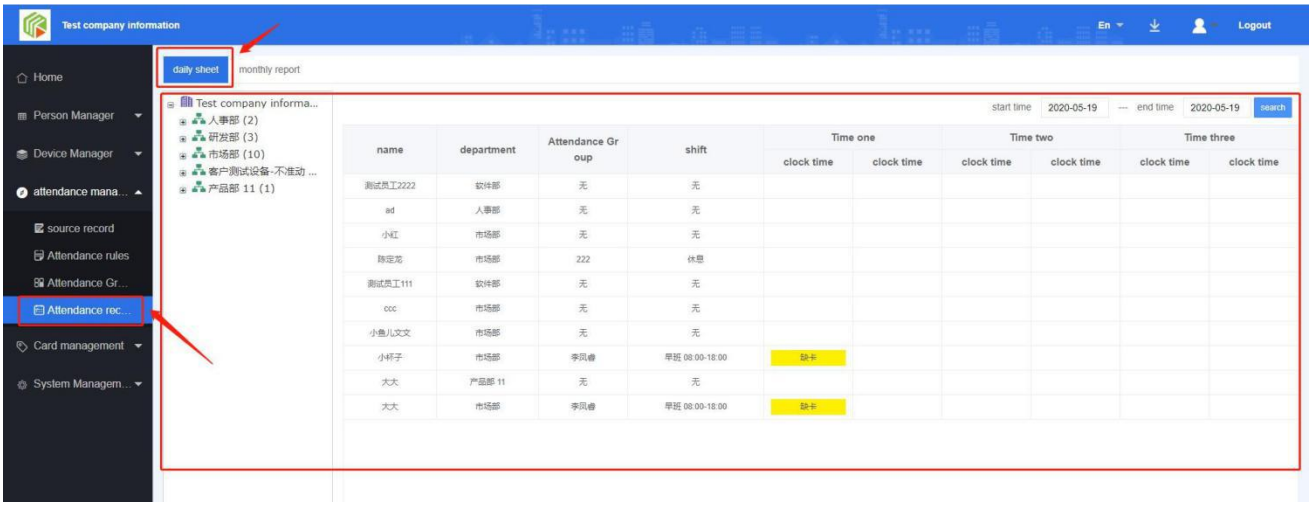
  Check the shift definition information to be edited or deleted, and click the relevant button to operate



4.4 Attendance statistics

Daily report of department attendance statistics: click attendance statistics, click query according to attendance time to view the attendance statistics of the day

Department attendance statistics monthly report: click attendance statistics, click query according to attendance time to view attendance statistics of the current month

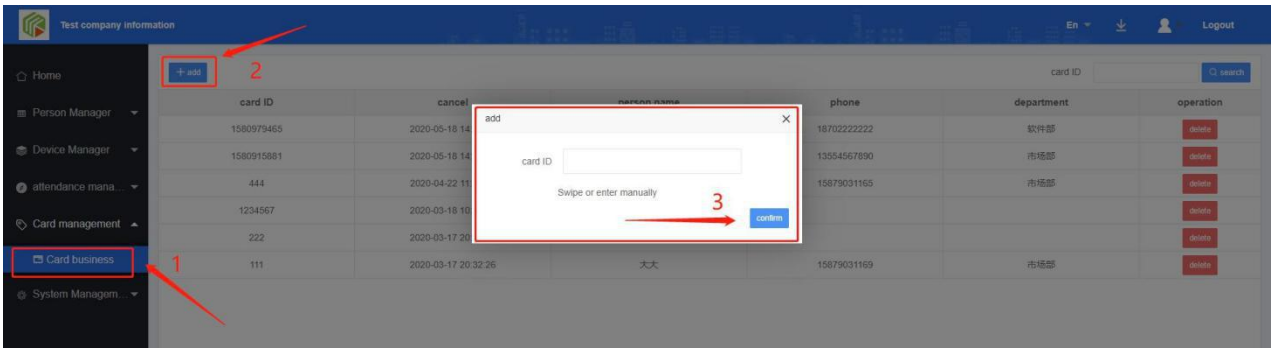


Chapter 5 card issuing management

5.1 Card management

Card management is used to manage the card of the owner of the park. The card is used to swipe the card to open the door. Here, you can add, delete, modify and check the card, and view the related information of the owner's personnel bound to the card.

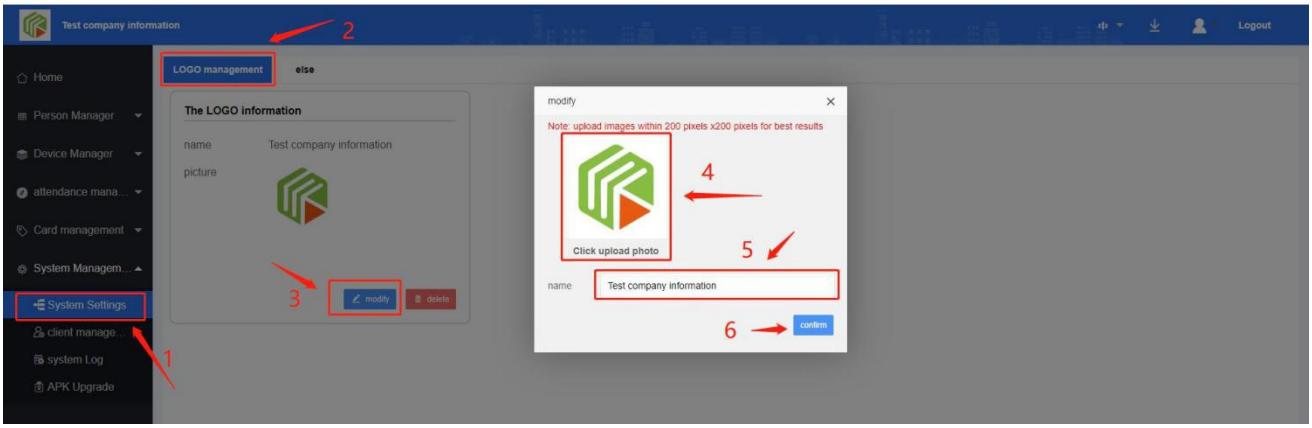
Add: click the Add button, input the card number, and click OK



Chapter 6 system management

6.1 Basic settings

Click basic settings, enter logo management, and click upload to replace the current logo



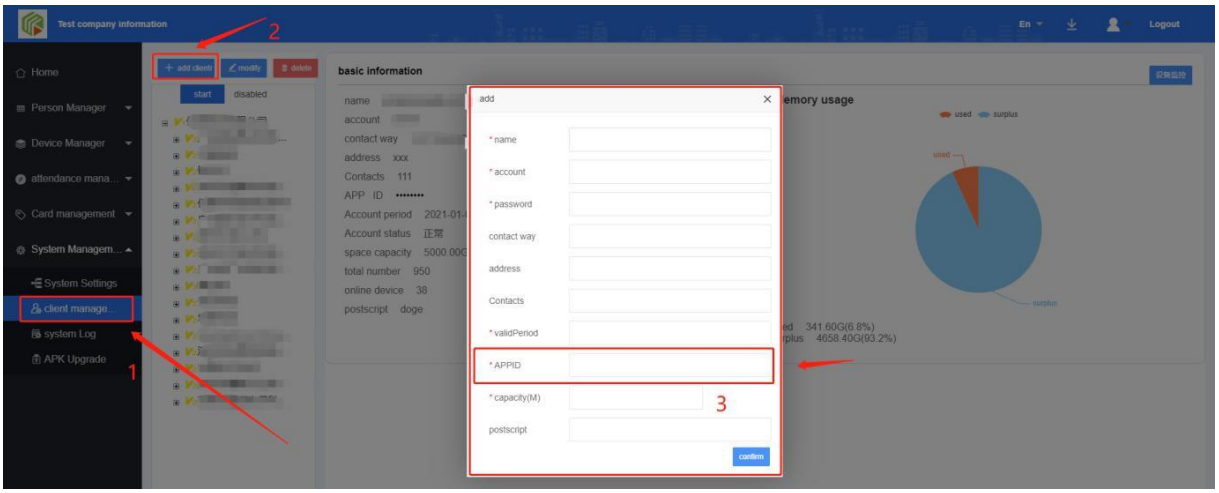
6.2 customer management

This system adopts a multi-level account management system. At present, it can be divided into five levels of accounts at most, one level of management, two levels of management, three levels of management and four levels of management. Each level of the five levels is used independently without interference or conflict with other accounts. A server multi-user mode is formed to reduce the waste of network server resources, which is more helpful for big data collection and algorithm.

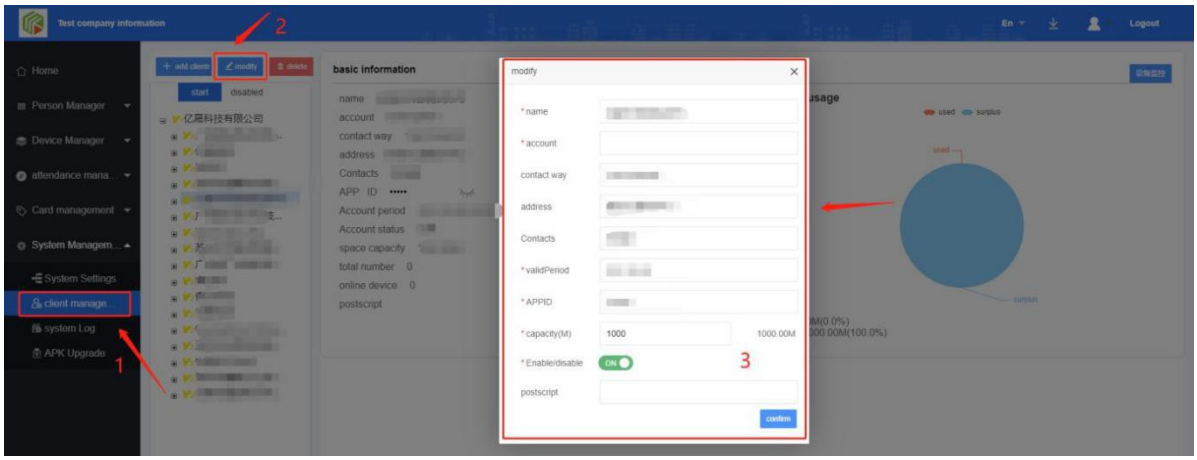
If the current account is insufficient to manage the current information, you can assign a role account under the account. The role account and the administrator account have the same management authority

APP ID

Customer management adds APP ID, which is provided by superior administrator



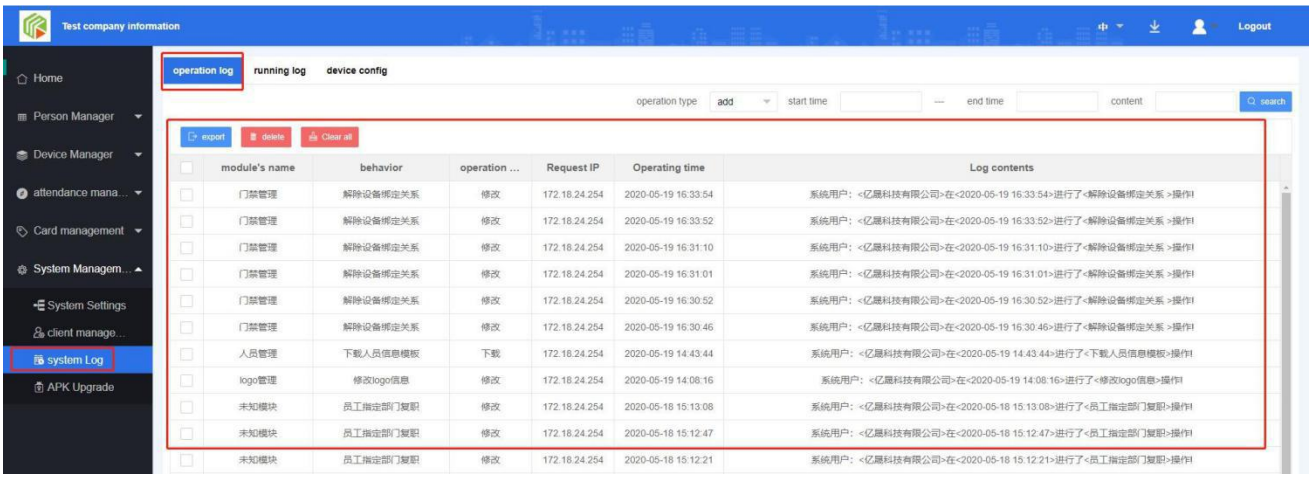
Select the child user to modify and click Modify to modify the information



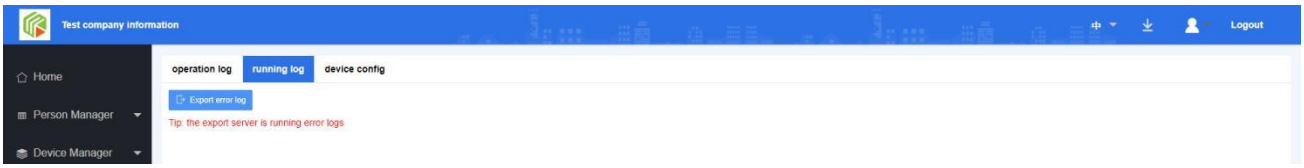
6.3 system log

- **Operation log:** it contains all operations of the customer. It is used to regulate everyone's behavior and relevant accountability operations。

  Export: click export to export all operation information of the log。

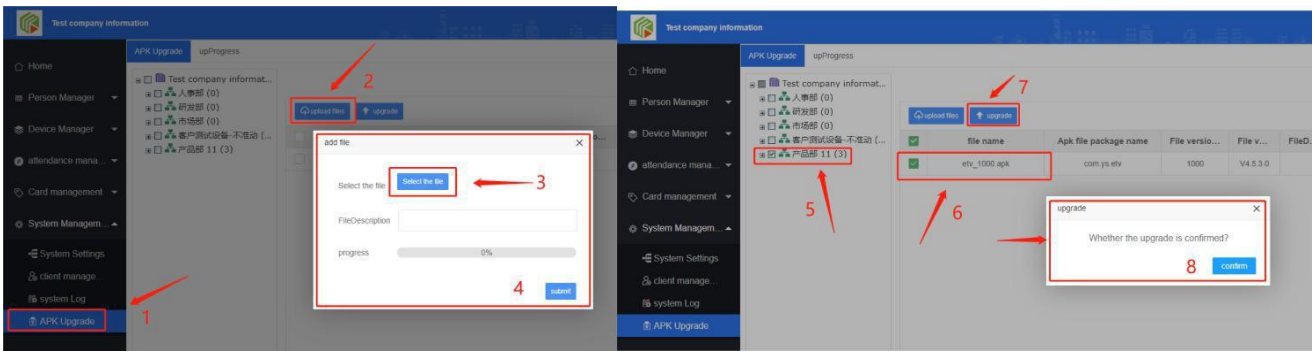


- **Running log:** when the equipment or system is abnormal, the customer can export the system error log or equipment Log here to our developers for maintenance (as shown below)



6.4 Apk upgrade

- **Step 1:** upload file: click upload file, in the add file pop-up box, click "select file" - add file description - click OK
- **Step 2:** Upgrade: select the Department, check the APK file to be upgraded, and click upgrade - OK



Chapter 7 operation management

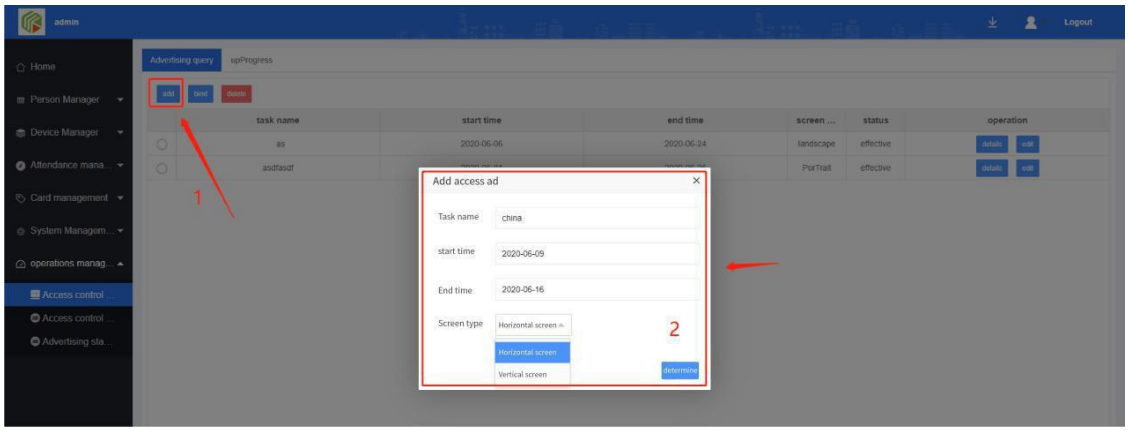
7.1 Access control advertising management

Add ad: **Step 1:** click the "add" button to enter the pop-up window of adding access control advertisement (as shown in Figure 1), input relevant information and click OK;

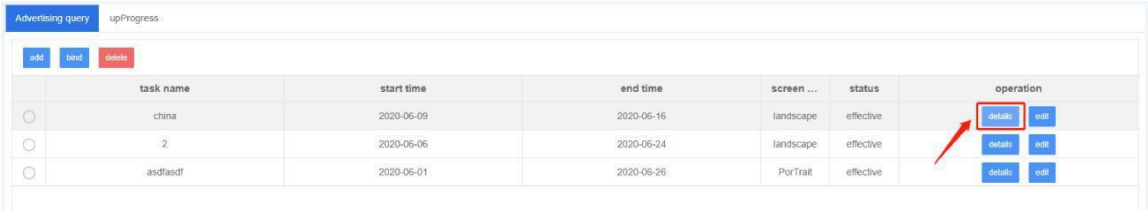
Step 2: click the "details" button below the operation (as shown in Figure 2) to enter the add material interface;

Step 3: (as shown in Figure 3) click the Add button to open the add material interface - click "select file" to find the material, click open, and then click Submit

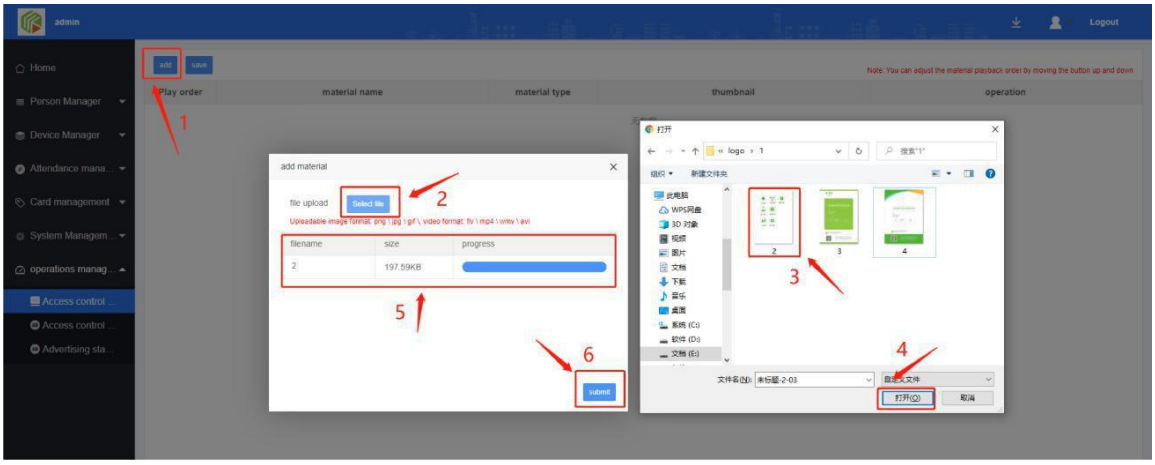
(Note: file upload image format support: PNG / JPG / GIF; video format support flv \ mp4 \ wmv \ AVI)



（Figure 一）



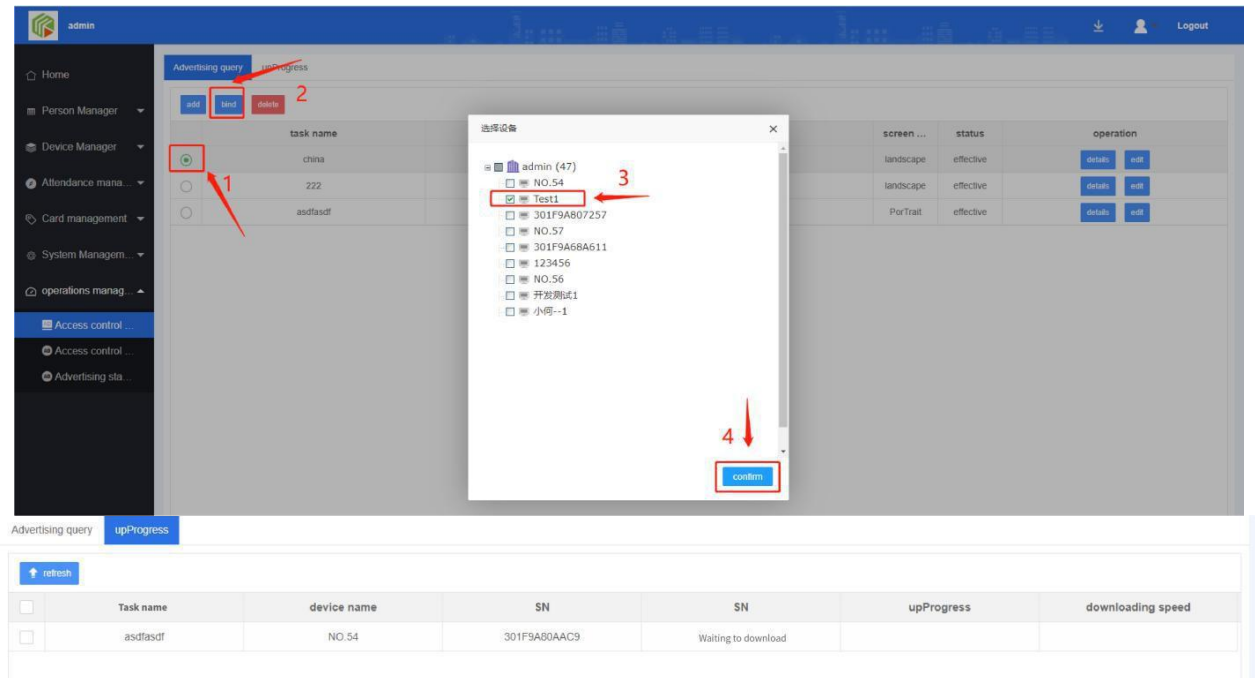
（Figure 二）



（Figure 三）

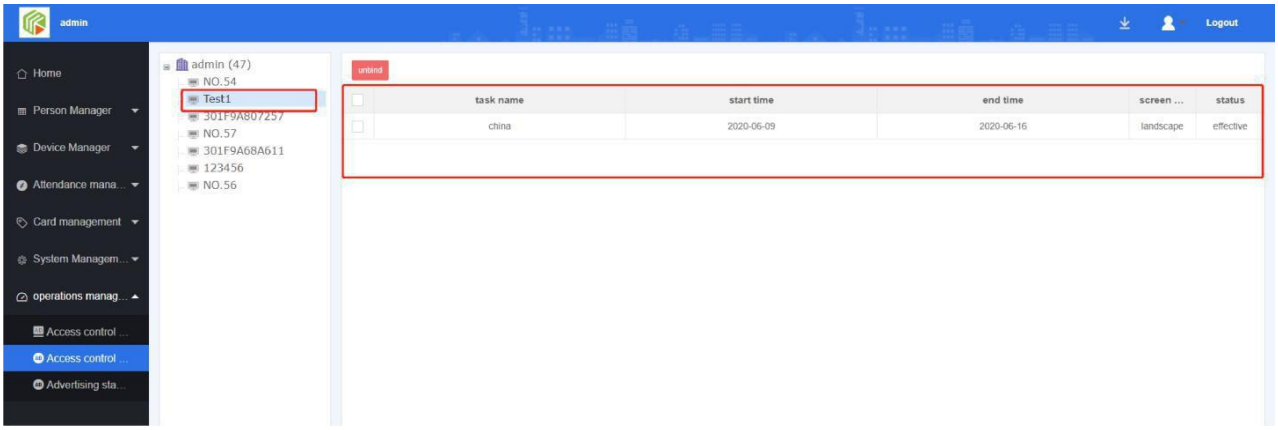
Binding device to distribute programs：

Select the task, click the "bind" button, check the device, and click OK. Wait until the download progress is 100%, the program will be distributed successfully.



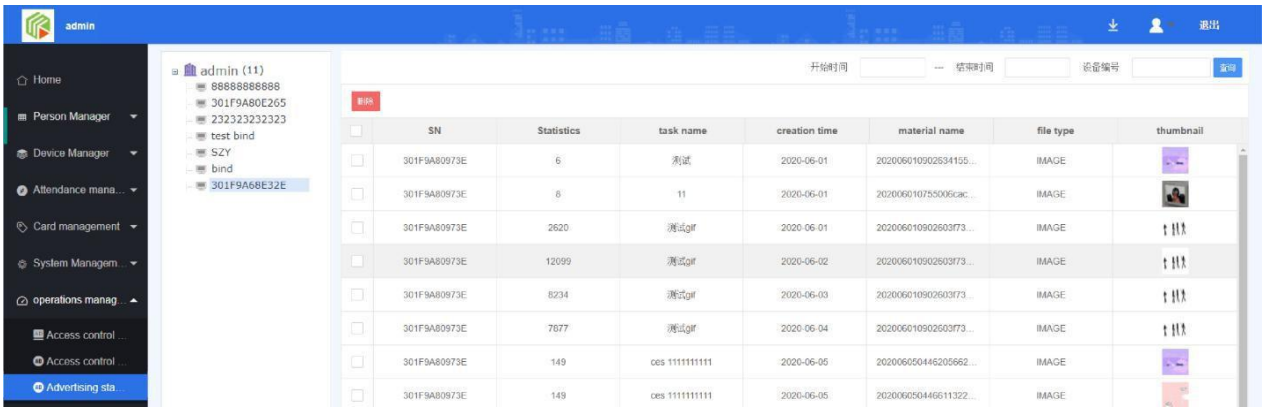
7.2 Access control advertisement query

Click "access control advertisement query" and select the device you need to view to view all tasks bound to the device.



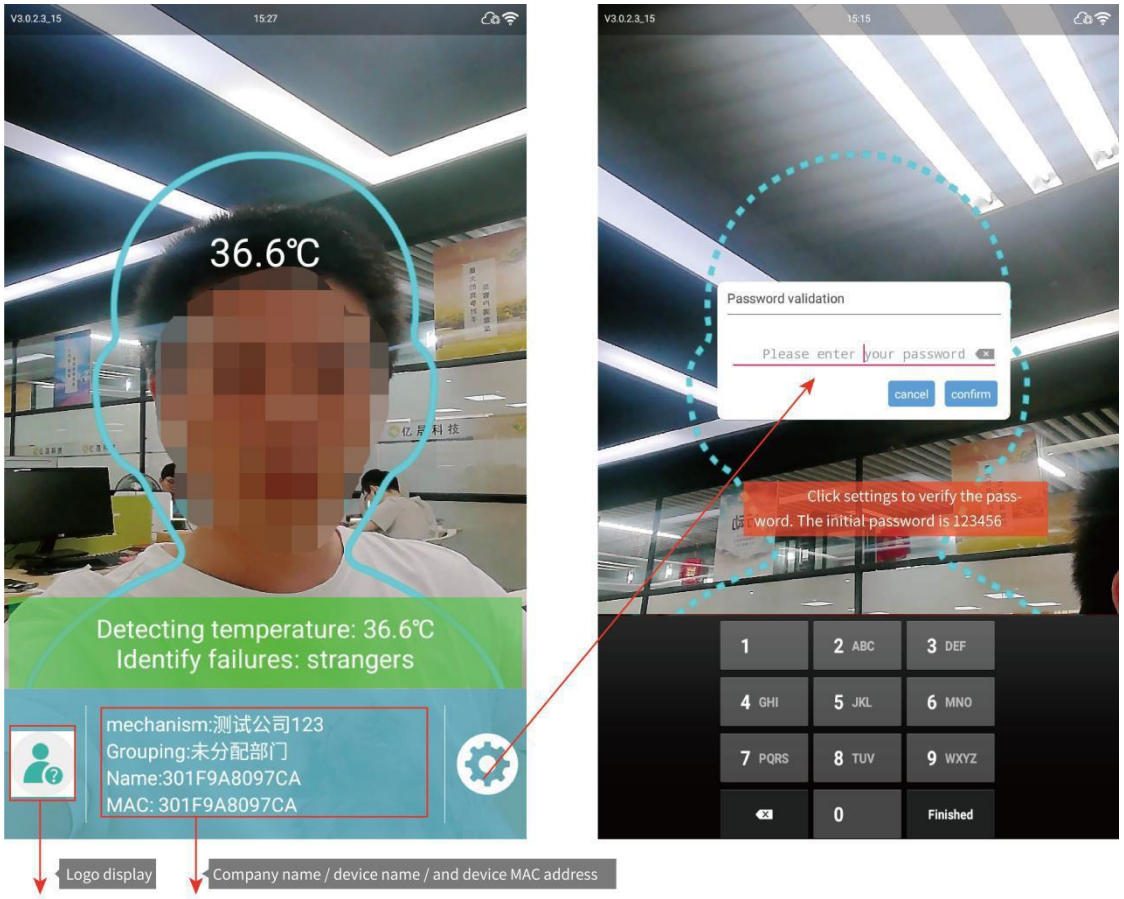
7.3 Advertising statistics

Click "advertisement statistics" and select the device you need to view to view the statistics times, task name, creation time, material name, file type and thumbnail of the
device.



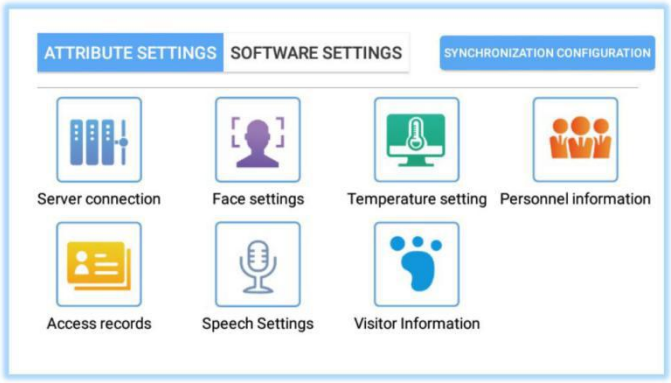
Chapter 8 equipment end

The face recognition interface can view the organization logo, group name, device name and MAC address Click the setting icon to verify the password. The initial password is 123456



8.1 Property settings

The attribute setting interface has seven functions: server connection, face setting, temperature measurement setting, personnel information, traffic record, voice setting and visitor information

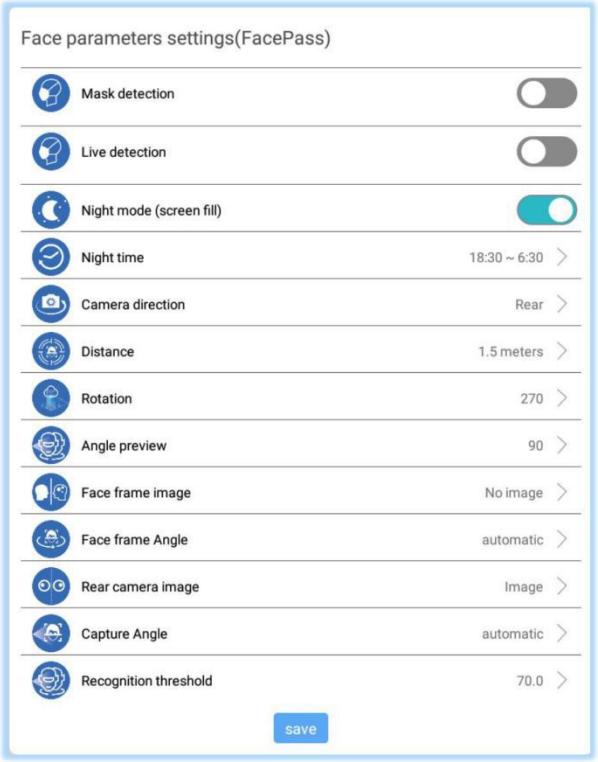


◆ Server connection

The IP address and port number of the device can be provided by the superior administrator

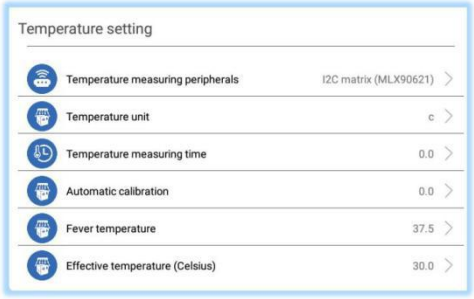
◆ Parameter setting of face

Modify the configuration properties according to the current hardware information



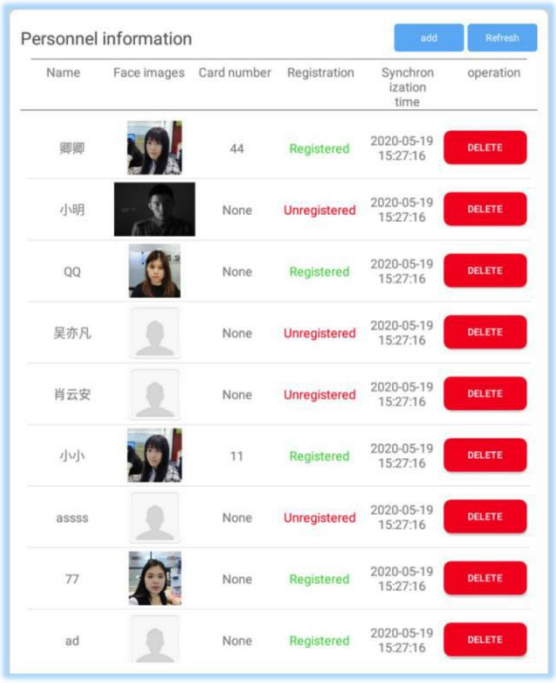
◆ Temperature measurement setting

If your device supports the temperature measurement function and needs this function, please configure the current settings



◆ Personnel information

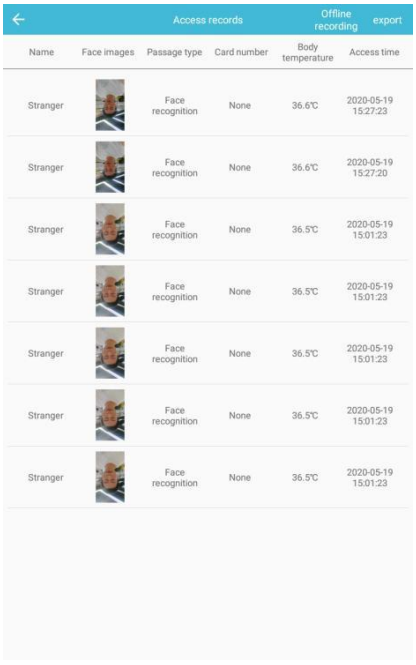
Click the Add button to register personnel information locally

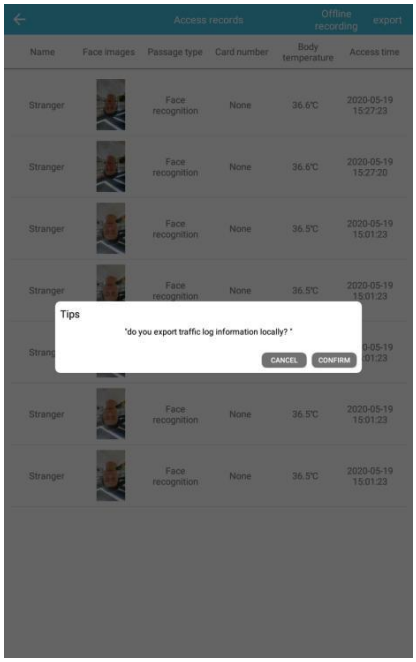


◆ Access record

The access record can view the access record, mode, temperature, time and other information of all personnel

Click "export" to export relevant information of traffic record



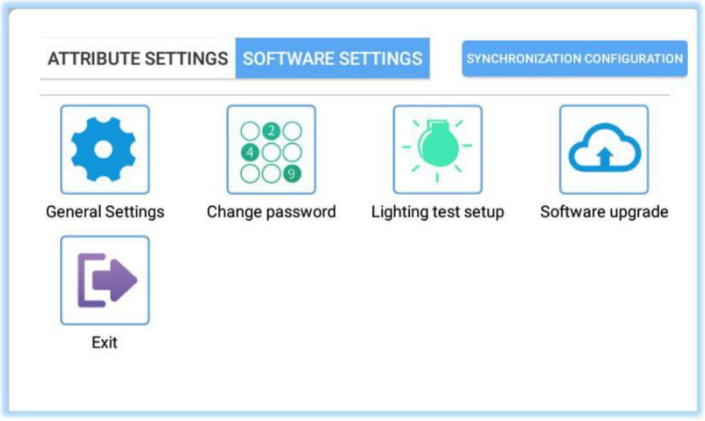


◆ **Visitor information**

Basic information of visitors can be viewed

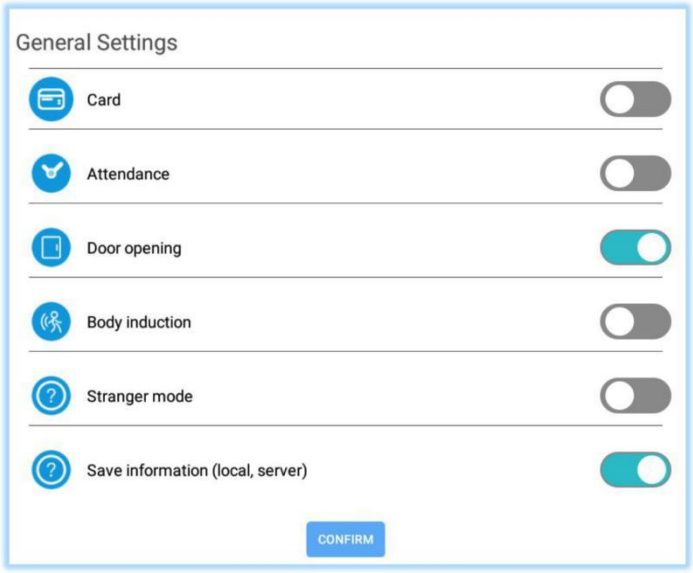
8.2 Software settings

The property setting interface has five functions: general setting, password modification, light test setting, APK upgrade, and software exit



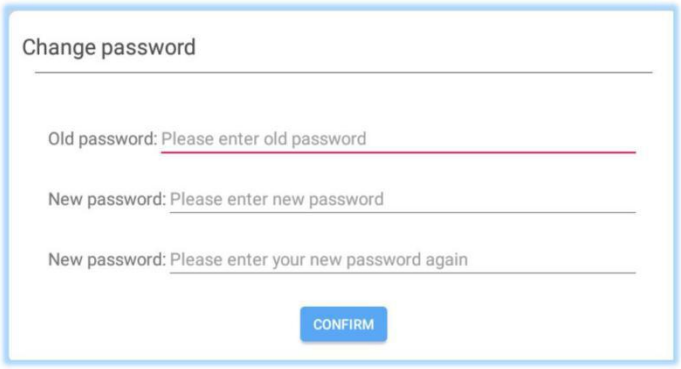
◆ **General settings**

You can turn on card swiping, attendance, door opening, human body induction, stranger mode and save local information related settings according to your own needs



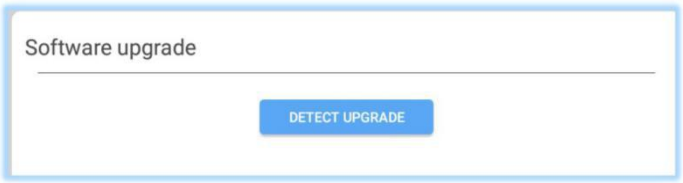
◆ **Change password**

Modify exit permission password



◆ **APK upgrade**

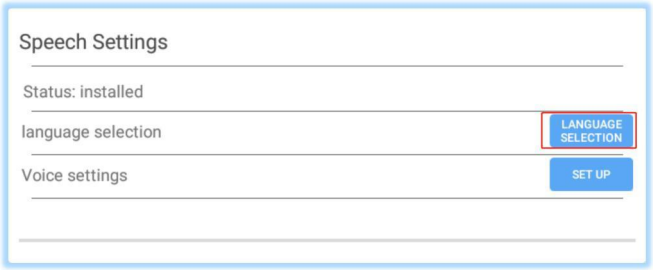
You can turn on card swiping, attendance, door opening, human body induction, stranger mode and save local information related settings according to your own needs



8.3 Multilingual switching

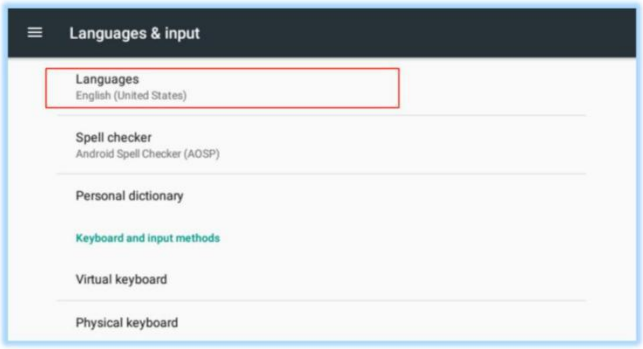
◆ **Language switching**

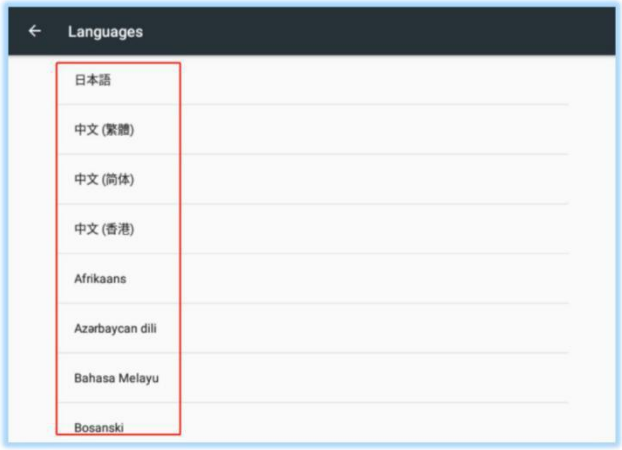
Setting interface -- voice setting, the interface is as follows



1：Click language selection to enter the system language selection interface

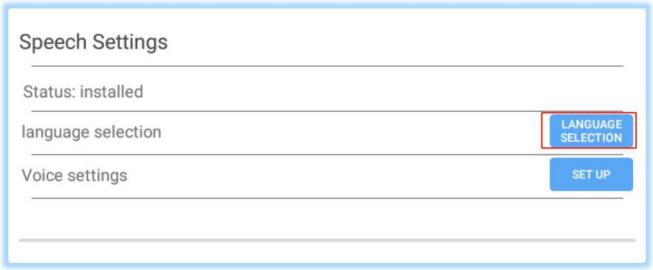
Click the first language selection to enter the interface and select the required language



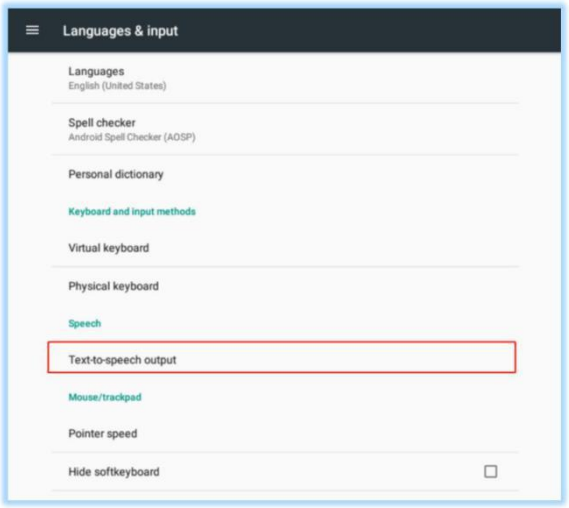


2：Voice TTS settings

Click the back button of language selection to enter the language setting interface

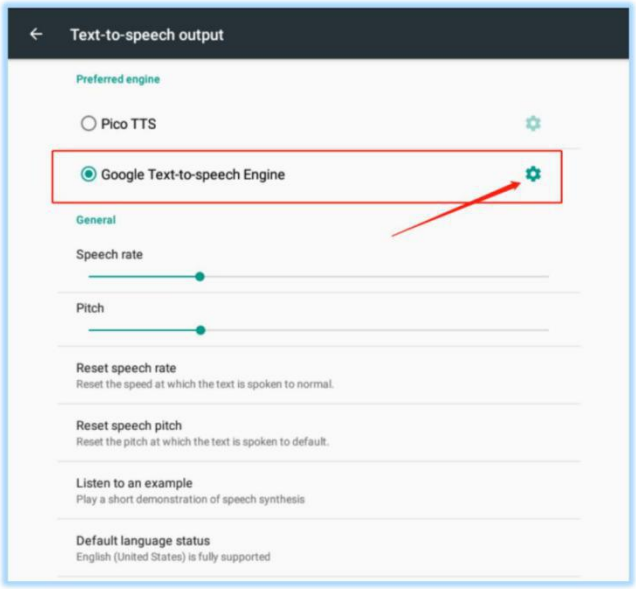


Click TTS output

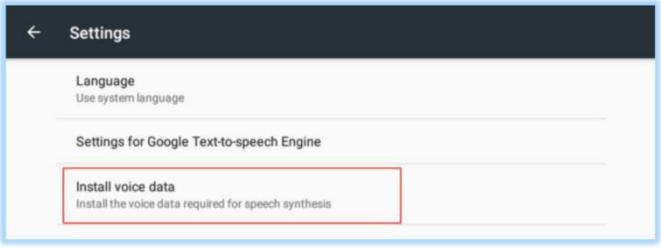


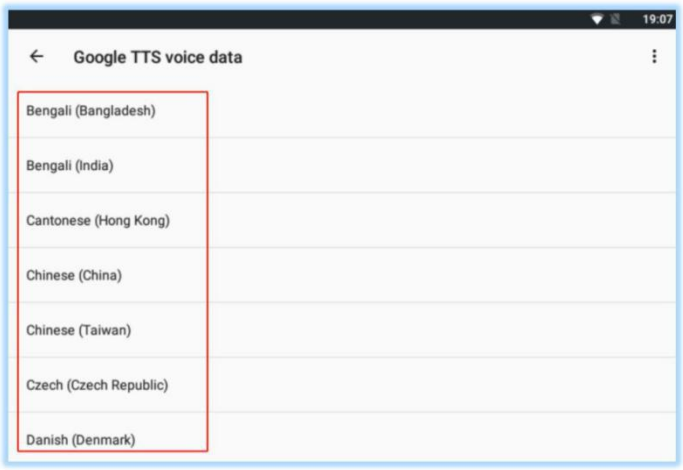
Click TTS output to select Google text to speech engine

Click the rear - gear setting button to enter the voice speaker setting interface



Click - install the voice data package, select the corresponding voice speaker, and enter the download operation





8.4 Authorization error code reference table

Note: customers usually provide us with the following pictures, as shown in figure (1), so we can't find substantive problems,

Please give priority to the message prompt that pops up when the customer connects to the server, as shown in figure (2)

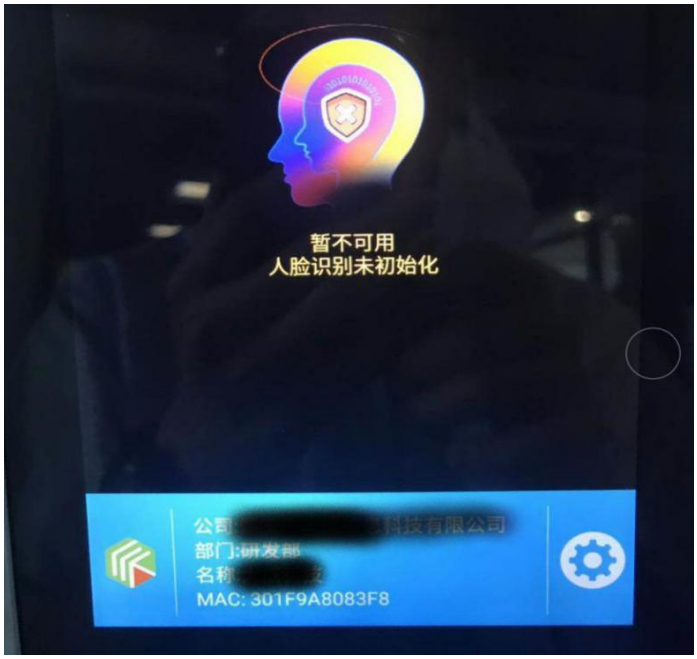


图 1

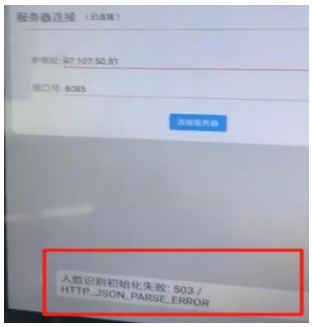


图 2

Error code	Error description	terms of settlement
201	Registration failed!	Contact our after sales department
202	Insufficient authorized points!	The number of authorized points under the account is insufficient, and the authorized point needs to be purchased again
203	Firmware version is inconsistent!	Firmware re brushing, re authorization required
204	Not activated!	Go to the authorization background to find the device Mac and click activate
401	WRONG_REQUEST_CERTcert	Contact our after sales department
403	LICENSE_BAD_NETWORK	Contact our after sales department
405	INSUFFICIENT_BALANCE	Contact our after sales department
501	LOCAL_CERT_ERROR	Contact our after sales department

502	HTTP_JSON_REQUEST_ERROR	Contact our after sales department
503	HTTP_JSON_PARSE_ERROR	Contact our after sales department
504	LICENSE_IO_ERROR	Contact our after sales department
505	LICENSE_ACTIVE_ERROR	Contact our after sales department
506	PROXY_CERT_REQUEST_ERROR	Contact our after sales department
507	PROXY_CERT_FILE_FORMAT_ERROR	Contact our after sales department
508	WRONG_CERT_RESPONSE_ERROR	Contact our after sales department

◆ Linux Server deployment requirements

➢ Configuration required

Environmental Science	edition	port	explain
JDK	1.8	——	Description environment variables need to be configured
Tomcat	8.5/8.0	8899	Ports can be changed according to actual needs
Mysql	5.6/5.7	3306	1. The port and password can be changed according to the actual needs (please ask our company for the default password) 2. Please set case insensitive database1.
FFmpeg	4.1 and above	——	Environment variables need to be configured

➢ Need to provide

1. Database installation directory (obtained by which MySQL command)

More information please go to the page:
https://www.asianda.cn/
Or send the email to info@asianda.cn

Alex Lee
Verification Successful
Detecting temperature: 37.4 °C
Punch success