LKS-TM001 LKS-TM001A LKS-TM001A-X LKS-TM001K LKS-TM001T LKS-TM001W

User Manual

Temperature Measurement and Face Recognition Machine

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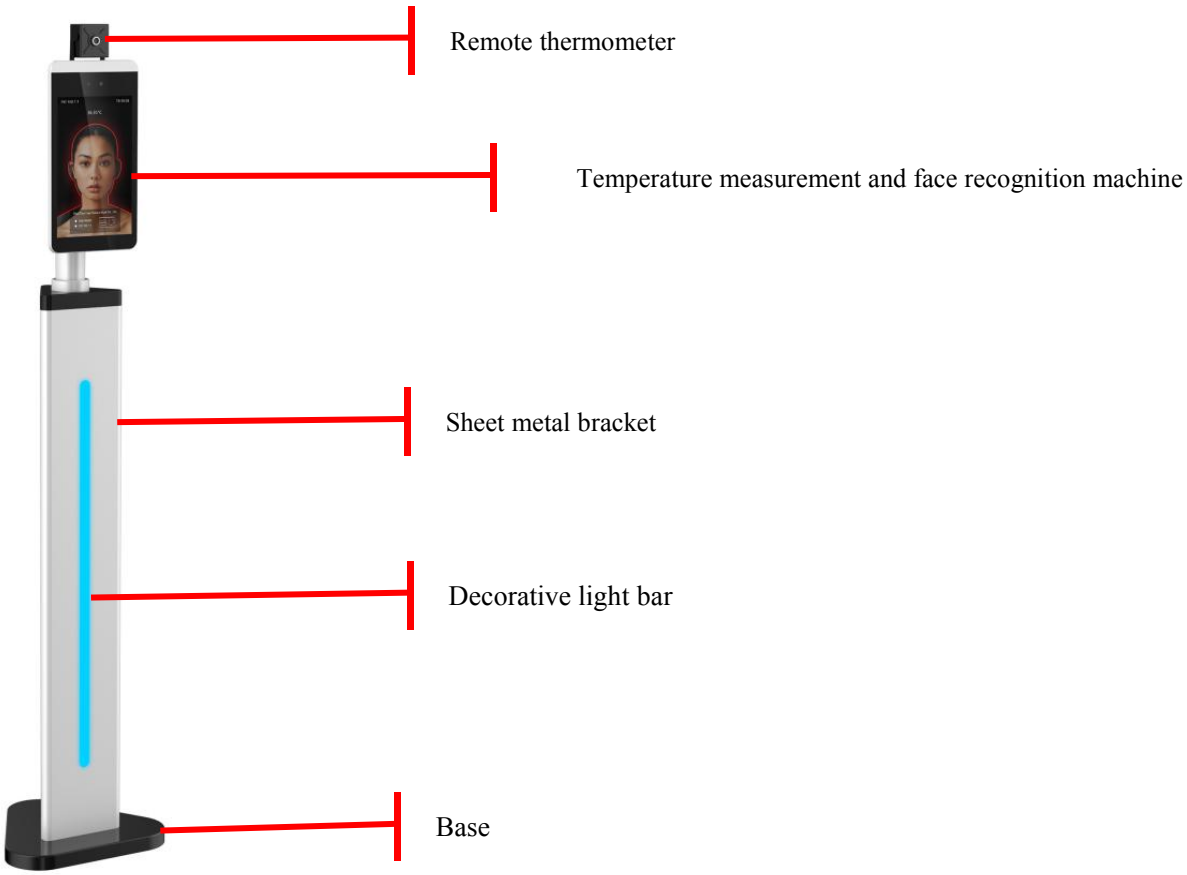
Temperature Measurement and Face Recognition Machine



Part 1: Product Warranty

■ Warranty description

The temperature measurement and face recognition machine is guaranteed by LKS for its defects in workmanship and materials. The warranty period is one year from the date of original purchase. Parts that prove to be defective within one year shall be repaired or replaced at LKS's discretion.

If the customer returns the parts to LKS for repair or replacement, please call LKS after-sales technical support at **4006905904** to inform the part model and obtain the return address. LKS shall carefully and strictly test the repaired or replaced parts before returning them to the customer, and deliver the parts to the destination by reasonable commercial means.

LKS after-sales office service telephone: **4006905904** (office hours: 8:30 a.m. to 9:00 p.m. Beijing time from Monday to Sunday):

No warranty under the following conditions: rust or corrosion caused by humans, damage caused by accidents, inappropriate handling or operation, improper maintenance, transportation damage, abuse, misuse, unauthorized repair or attempted repair, intentional damage or "natural disaster". In addition, the use of unauthorized paper or other unauthorized components and/or supplies will void the warranty.

■Warranty Period

Parts shall be warranted and replaced free of charge for one year. The freight free shall be paid by the sender. If you require on-site service from LKS technicians, you shall pay the travel expenses.

For parts out of the one-year free warranty period, you shall bear all the costs, including the round-trip freight and

miscellaneous duties for shipping parts.

■Disclaimer

LKS shall not assume patent liability for the use of the information contained herein, and shall not be liable for any damages arising from the use of the information contained herein.

LKS shall not be liable for any loss or consequence caused by the misuse, abuse or unauthorized modification, repair or change of LKS temperature measurement products purchased by users, or failure to strictly abide by the operation and maintenance instructions of LKS products.

Model	Date	Revision Description
LKS-TM001 LKS-TM001A LKS-TM001K LKS-TM001T LKS-TM001W LKS-TM001A-X	April 2020	Temperature Measurement Machine Installation Manual 20.20.01

Part 2: Product Introduction

Temperature measurement

Face recognition

Alarms

Mask detection

■Product Overview

▶ High-performance, high-reliability, and high-stability Android system
▶ Cutting-edge deep learning algorithm used as the core
▶ Standard local 20,000 faces database, face recognition accuracy > 99.97%, recognition speed < 100 ms
▶ Binocular living anti-counterfeiting, preventing photo and video deceptions
▶ 8-inch A-gauge LCD, projected and capacitive touch screen technology, and full-screen operation interface
▶ Adopt 2 million intelligent wide dynamic sensor face recognition camera
▶ 2 million intelligent wide dynamic sensor, which supports strong light, backlight, and dark complex light environments
▶ Body temperature measurement, temperature display, and automatic alarm generation for abnormal temperatures
▶ Infrared and TGB double light compensation, and weak light identification without interference
▶ Optional wired/Wi-FI/4G communication
▶ Multi-language broadcasting

■Product Specifications

Model	LKS-TM001 LKS-TM001W LKS-TM001A LKS-TM001K LKS-TM001T LKS-TM001A-X
Operating system	Android 7.1.2
Camera	2 million wide dynamic, live dual cameras, strong backlight resistance
Touch screen	Capacitive touch screen, 8-inch A-gauge LCD (16:10)
Display resolution	1280 x 800
Camera resolution	1280 x 720
CPU	Quad core RK3288 ARM-A17 1.8GH，GPU:Mail-T764
Storage	Memory: 2G Storage: 8G
Authentication mode	Face recognition, temperature measurement, optional IC card, ID card
Measurement range	35.5℃—42℃（Non-medical product features）
Temperature measurement accuracy	Accuracy：0.5℃ Face Distance：30CM—50CM
Storage capacity	20,000 faces database and 150,000 records
External interface	USB RJ45 RS232 TTL reset switch, Wi-Fi antenna interface, Brake machine interface
Operating voltage	12 V DC ±20%
Communication mode	Wired network, Wi-Fi, optional 4G
Type	Wall-mounted type, desktop type, vertical type for adults, vertical type for kids

Installation mode	Wall-mounted bracket, vertical bracket, desktop bracket, gate installation

Warning: the function of measuring temperature of this product is not a medical product, it is only used by quick checking of human body temperature! After the machine starts up, the temperature measurement module needs to be preheated for 15 minutes before it can enter the normal temperature test!

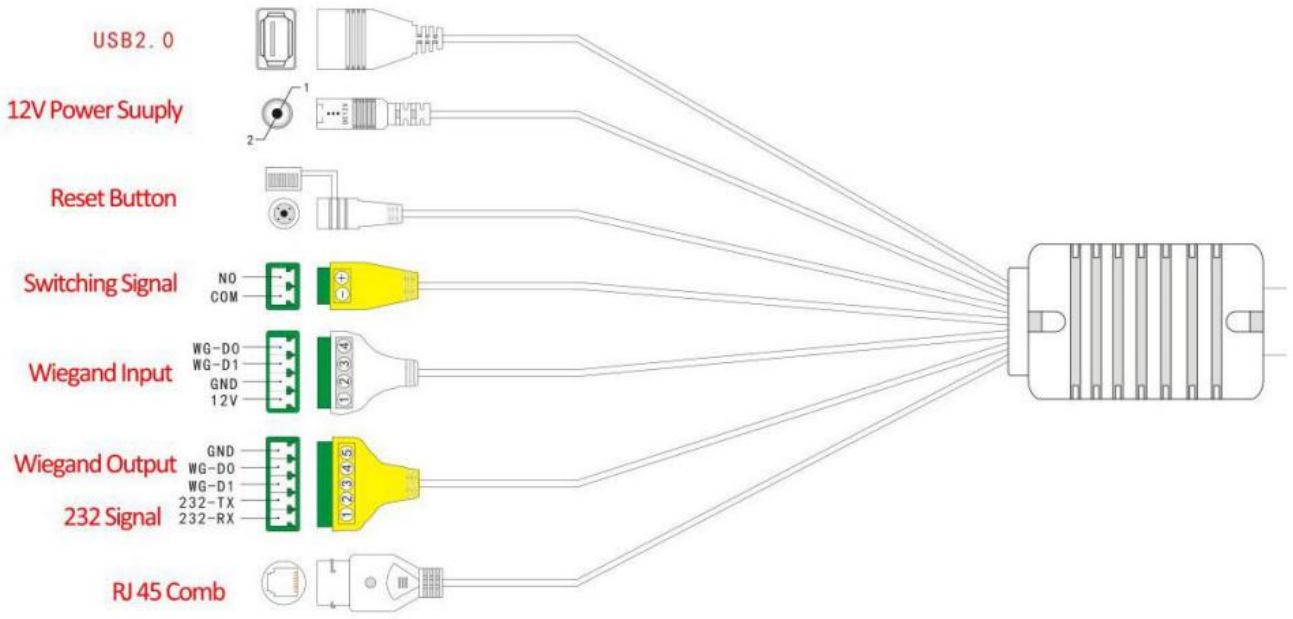
■Electrical Performance

Input power	110–240VAC	Output power	12 V, 5 A DC
Standby power consumption	< 0.5 W	Speaker power	8 ohm, 1 W
Rated power consumption	< 20 W		

■Work Environment

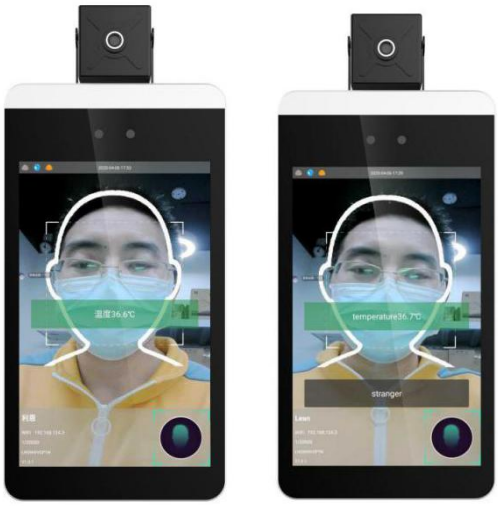
Operating temperature	10°C–30°C
Operating humidity	0%–90% RH
Storage temperature	–10°C to +60°C
Storage humidity	0%–65% RH

■ Port description



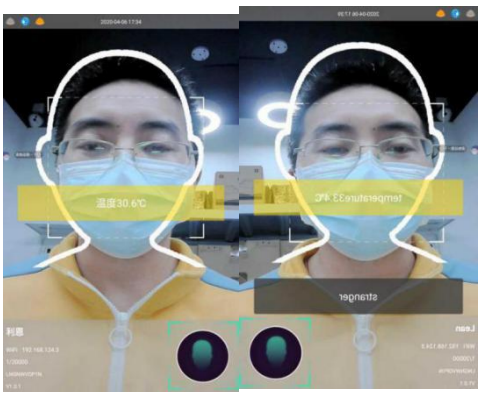
■Body Temperature Display

Normal temperature



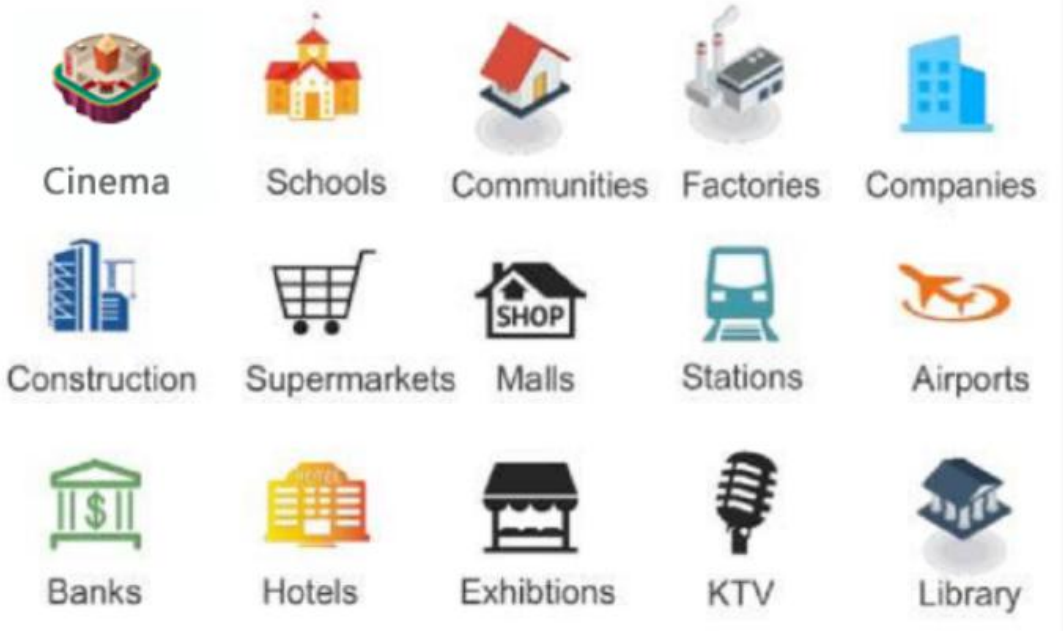
Abnormal high temperature

Abnormal low temperature



■Application Scenarios

▶The machine is used for quick temperature reading and face recognition in schools, cinema, communities, supermarkets, checkpoints, subway stations, customs ports, airports, stations and other places.



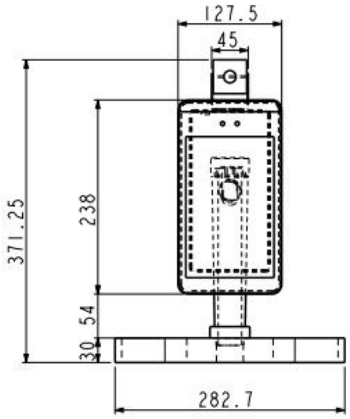
■Installation Modes

Model: LKS-TM001W

Model: LKS-TM001T

Desktop

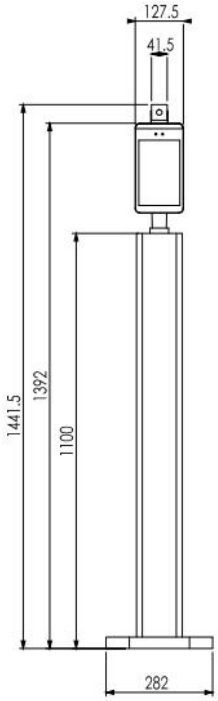
桌面式安装



Models: LKS-TM001K (for kids); LKS-TM001A (for adults)

Vertical

立式安装



Notes

1. When using the product to measure temperature, the personnel should pay attention to: the forehead of the person is dry without water, and the forehead has no hair and no clothes and hats to cover; The product should be placed in an indoor environment with no wind or bright sunlight, and away from air conditioning, electric heating and other temperature control equipment.
2. The equipment shall not be placed in a humid environment. Outdoor equipment shall be equipped with a damp proof cover. Wet use environment will accelerate the rapid aging of electronic components, thus reducing the service life of the product, resulting in damage of components with damp

3. Do not place the equipment under the environment of strong ultraviolet ray and direct sunlight. When the temperature is higher than 30℃, ultraviolet and high temperature irradiation of the screen will accelerate the deflection of liquid crystal molecules, the screen will accelerate the aging, when the outdoor temperature is higher than 30℃ to move to the indoor or sunshade treatment
4. When the air temperature is lower than 10°C, the screen may not work properly due to the deflection of liquid crystal molecules. It is recommended not to use this machine below 10°C.

The recommended ambient temperature of this product is 10-30℃ and the humidity is 10%-80%.

Part 3: Product Installation Operation Instruction

Installation Guide

Introduction

Temperature measurement, face recognition all-in-one machine is a convenient and fast system for face recognition + human body temperature measurement, with small size, easy to put, simple installation, fast detection speed and other characteristics.

Attention： This installation guide is to guide the installation according to the standard installation order and method. If you have any questions or problems during the installation process, please contact lean technician. **TEL：4006905904**

Installation Step

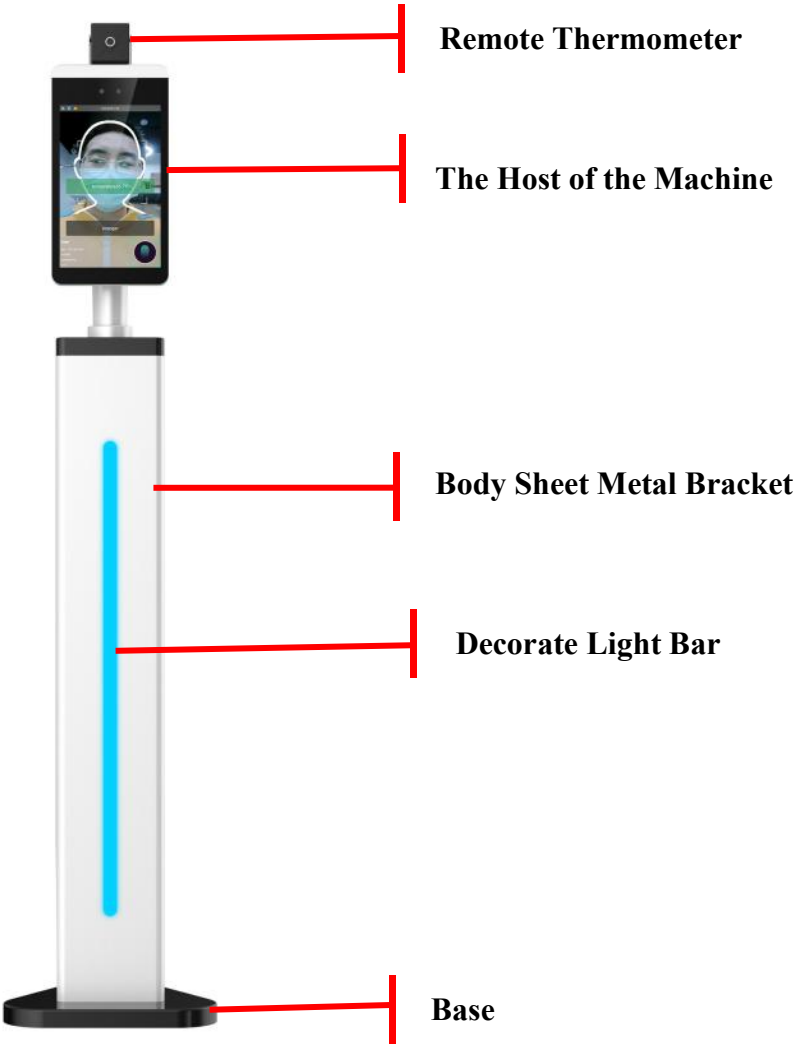
Please evaluate and check the following environmental factors before installing the temperature measuring face recognition all-in-one machine：

Attention

- **Security**： As the overall structure of the temperature measurement face recognition machine is sheet metal, the connection between the bracket and the base must be firmly installed.
- **Location Reasonable**: The installation location should be selected reasonably. The vertical temperature measuring all-in-one machine is only suitable for indoor environment.
- **Power Supply**: The input voltage of the equipment in normal operation is "single-phase 100v-240v ac voltage"; The power adapter 12V power supply line and network line are connected by the bottom of the machine bracket.

Machine Installation Instructions

Schematic Diagram of Machine Structure



Tool:

Cross Screwdriver

Electrical insulation tape

Accessories:

Temperature measurement, face recognition all-in-one machine host

Body sheet metal bracket

Power line

12V power adapter

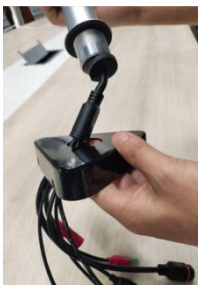
Cable

All-in-one machine tool kit

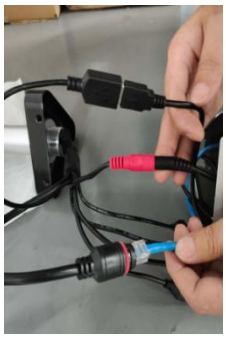
The method of connecting the host and the support bar of the *temperature measuring, face recognition all-in-one machine*

1. ZRemove the top cover plate of the main sheet metal bracket and install the reserved USB extension cable head and DC power cord head inside the bracket.

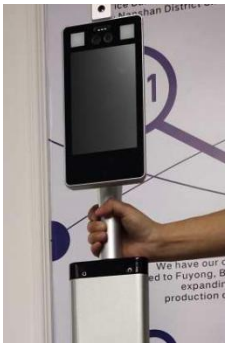
2. **Remove the waterproof washer, corrugated elastic pad and nut from the *temperature measuring all-in-one machine* host and insert them into the top cover of sheet metal bracket. Then restore the waterproof washer, corrugated elastic pad and nut in order and tighten the nut.**



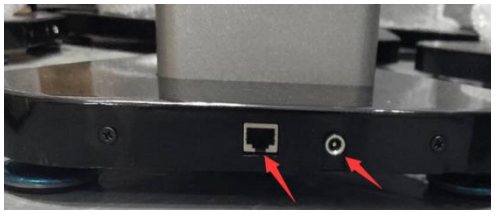
3. Connect the USB cable, network cable and DC power cord, and fasten the connector with electrical tape to prevent it from falling off.



4. Tie the connected wire into the body of the sheet metal bracket, close the body of the sheet metal top cover plate lock screw.



5. Insert 12V DC power cord and network cable equipment from the bottom of the temperature measuring all-in-one machine to start the machine.

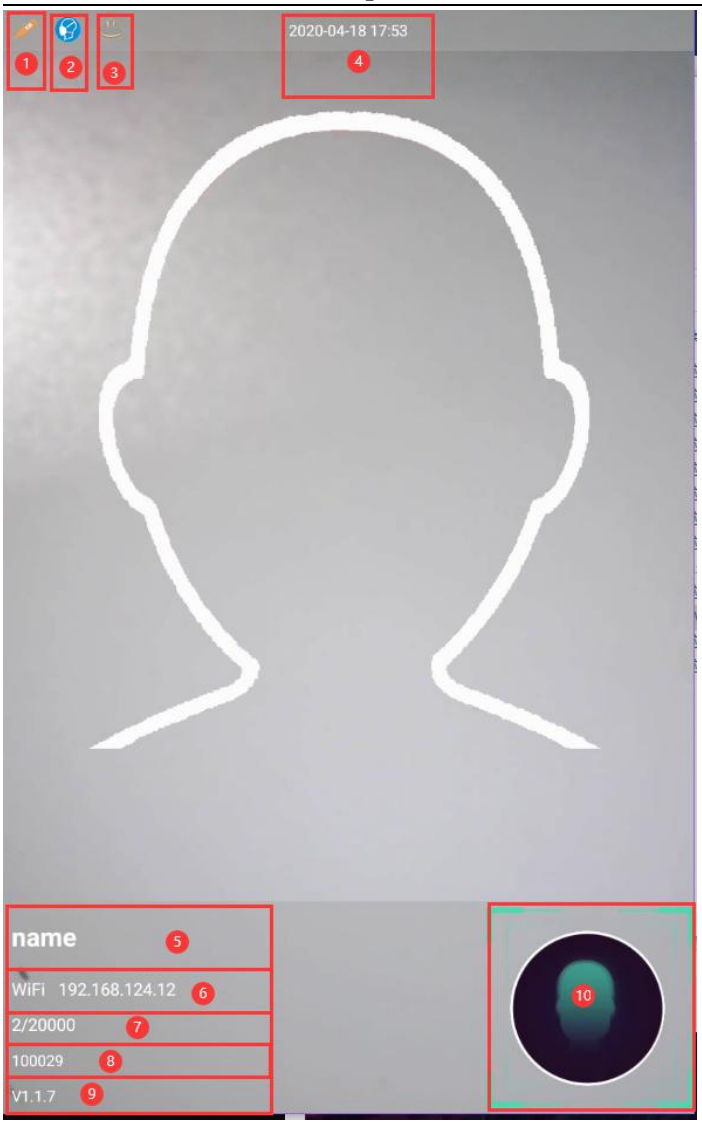


f there is any problem that cannot be solved by the temperature measuring face recognition all-in-one machine, please contact the operation and maintenance manufacturer

TEL：4008791755

Part 4: Functions and Operations on the Client Interface

■ Introduction to the main interface



(1) Interface:

The main interface provides all the measurements and most useful information.

(2) Interface elements

① Temperature measurement icon: orange when temperature measurement is enabled, and gray when temperature measurement is disabled.

② Mask detection icon: blue when mask detection is enabled, and gray when mask detection is disabled.

③ Helmet detection icon: orange when helmet detection is enabled, and gray when helmet detection is disabled.

④ Time: regional network time set by the system.

⑤ Company name (can be set on the setting interface.)

⑥ Network mode and IP address

⑦ Number of registered users and maximum number of faces (Click 10 times quickly within 2 seconds to display the user list interface.)

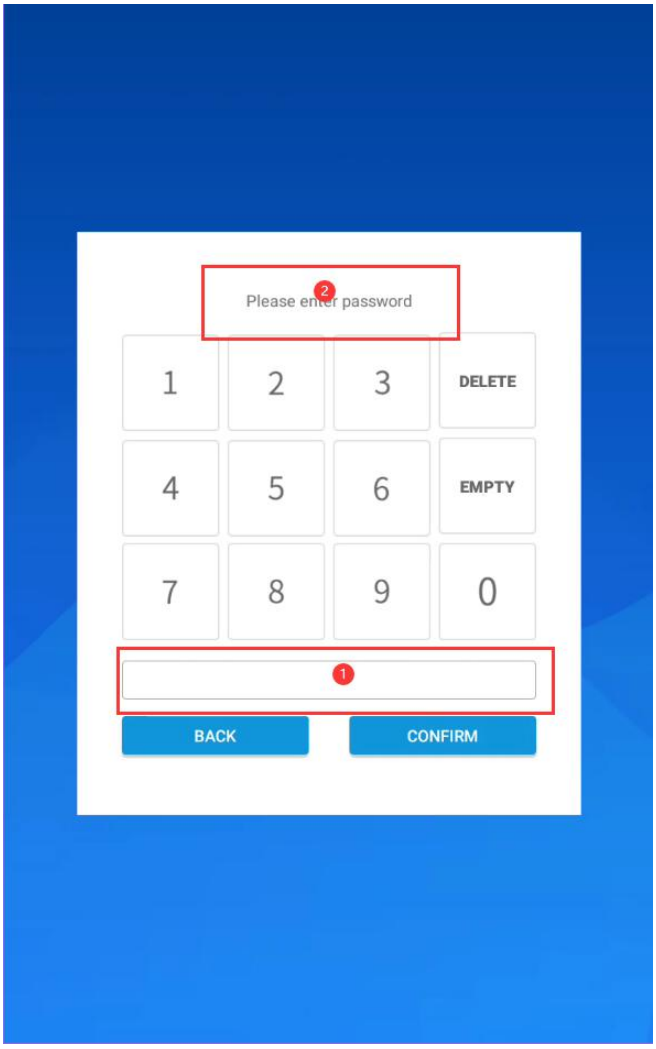
⑧ Device number

⑨ App version and name

⑩ After the recognition is successful, the registered picture is displayed (Click 10 times quickly within 2 seconds to display the setting interface.)

(3) Exit the main interface: Connect a mouse and right-click the mouse 10 times to exit the main interface and display the Android desktop.

■Login Interface



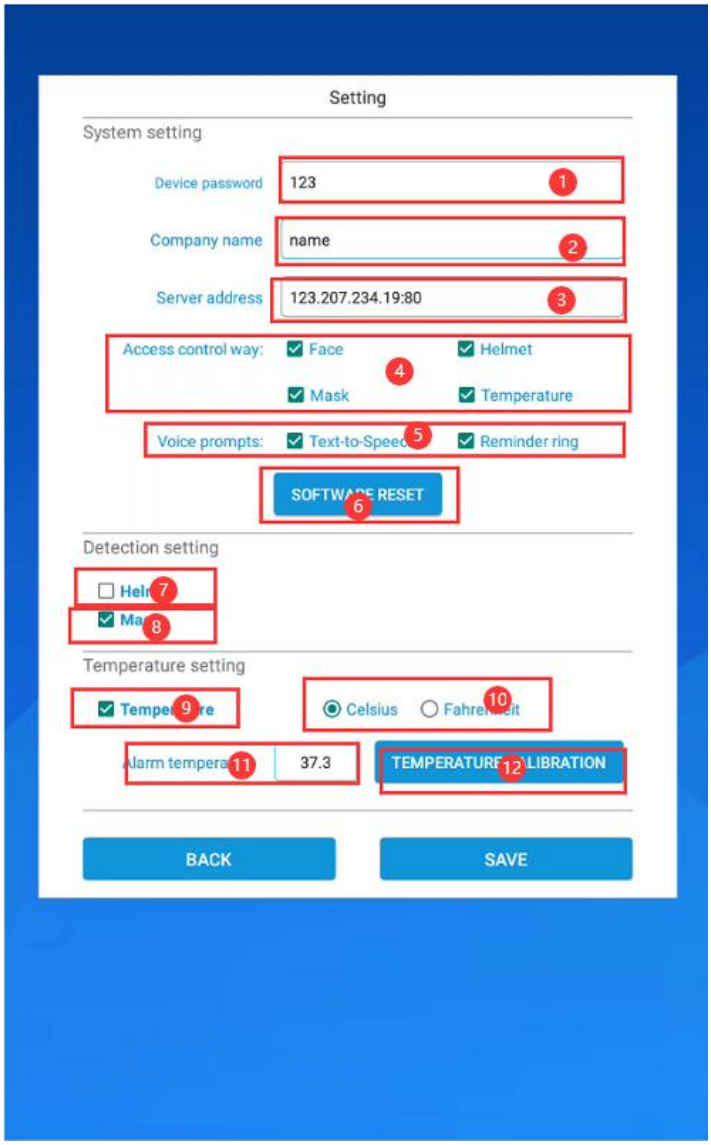
(1) Interface:

This is the login interface. Login is required for displaying the setting and user list interface. The initial password is **123**. After successful login, you can change the password on the setting interface.

(2) Interface elements:

The login procedure is not repeated here. If you forget your login password, restore the initial password **123** by clicking ① 5 times quickly within 2 seconds and then clicking ② 5 times quickly within 2 seconds.

■ Setting Interface



(1) Interface:

The interface is the setting interface, setting server IP, company address and a series of checks

(2)Introduction to the interface elements:

1. Login password
2. Company name. Used to display 3 server IP addresses on the main interface
3. Voice prompt setting. This setting has text to grasp the voice and prompt ring tone 2, default all, can not be selected
4. Access control. Face, safety helmet, mask, temperature 4 options, default all options, at least 1 option
5. Access control time. Relay control time, that is, the opening time. The customer can choose to enter the control time
6. Relay mode: normally open, normally closed 2 choose 1. This is the hardware option, the sales need and the customer to determine the type of need.

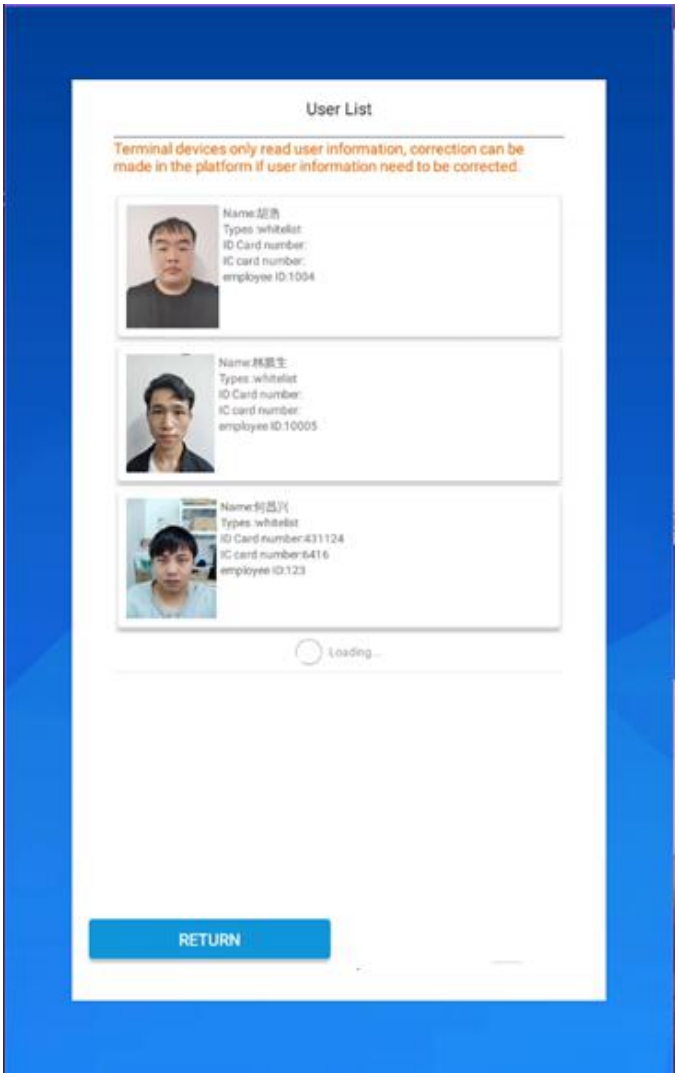
(often open: in the case of power on the door, face machine power off, access control is effective can not enter at will. Normally closed: in the case of power on the door, the face machine power off, access control invalid can enter and exit at will.)

7. Software initialization **(Use this function with caution! Before the device is delivered, all parameters are set and the platform is bound. After initialization, all settings of the app are cleared, and the platform cannot be connected. Use this function only when you build and bind your own platform.)**

8. Whether to turn on face detection
9. Whether to upload a face photo
10. Whether to detect a helmet
11. Whether to detect a mask
12. Whether to measure body temperature
13. Temperature unit. Select Fahrenheit or Celsius.
14. Set the high temperature alarm threshold
15. Temperature calibration (Use this function with caution! Each hardware of temperature measurement modules has their hardware characteristics. Therefore, we cannot ensure that all the modules have consistent measurement results. The device is calibrated before delivery. Do not use this function unless your measurement results are obviously inconsistent.)

Note: For functions 3 and 8, prompts and instructions are provided on the code.

■User List Interface



(1) Interface:
This interface provides a list of registered users, as well as the user details.

Part 5: Service Platform Operations

■Overview

This platform is a cloud platform system in the SaaS management architecture. It allows multiple customers to use and manage their data and functions independently in the same system without interfering with each other.

1.1. Terminology

Operator: refers to the enterprise responsible for the management of the entire cloud platform. The enterprise has the functions of ordinary customers on the cloud platform and the rights of the super administrator for the platform.

Customer: refers to a virtual company account created by the operator for the specific enterprise on the cloud platform after the device is purchased from the operator.

User: refers to an account that can log in to the web management system of the cloud platform for related operations; each user belongs to a specific customer; all accounts are unique on the cloud platform.

Super administrator: the first built-in user who can log in to the cloud platform after the cloud platform is established. This user is the operator's customer by default, and has the highest management rights of the entire system.

System administrator: When a virtual company account is created for each customer, a system administrator account and password will be requested. If the account passes the uniqueness verification on the platform, it becomes the customer's system administrator.

Staff: the staff to be included in customer management, and face recognition and body temperature detection; staff and users are two completely independent concepts.

1.2. System Requirements

The system uses Google browser. If other browsers are used, some features may not be displayed and used properly.

1.3. Multilingual Support

The platform supports Chinese and English by default. It supports multiple languages for extended design, but the support for other languages requires communication with business personnel.

In principle, multi-language support is charged. The customer provides the local language translated from Chinese, and our technical staff integrates it into the platform to support localization.

Local languages written from right to left are not supported.

1.4. System Login

Enter **http://Server IP address:8080/cwaac/login.html** in the browser address bar. On the login interface, enter the user name and password to log in.

You can select the supported local language on the right of the login interface.

1.5. Description of the Main Interface

The main interface consists of three parts: comprehensive information area on the top, menu bar area on the left, and the main operation area on the right.

Comprehensive information area:

Left 1: cloud platform system name

Left 2: current login customer name

Right 1: current login user

Right 2: link for changing the password of the current user

Right 3: link for exiting the login link

Right 4: platform software version number

Menu area: The menu is a two-level menu. The level-2 menus are function menus. The operator user can view SaaS management menus and customer menus, while the customer user can only view the customer menus.

Main operation area: allows you to complete specific operations.

1.6. Device Access Process

To connect a device to the cloud platform, perform three steps: registration > activation > addition.

Registration: Register the terminal in the system by using the terminal's hardware code and hardware code type. The hardware code is shown on the following interface of the terminal.

Activation: Add the registered device. On the terminal, set the access IP address and port number of the cloud platform, and click **OK** to activate the device. After activation, you can see a 6-digit terminal number on the terminal, as shown the following figure.

Add: The activated terminal belongs to the operator's customer on the server by default. You need to add the terminal to a specific customer on the server so that the customer can see and manage the terminal under their account.

1.7. Rights Management Model

This system provides three-level management rights. The three levels include the functions, roles, and users.

Functions: operations in the system, mainly involving the viewing (list and specific information) and editing (addition, deletion, modification, and check).

Roles: the type of user created in the system who can perform a certain type of operation. Each role has an editable range of functions. A role can be assigned to a user, and the user automatically has all the functions of the role.

User: an account that can log in to the system and perform corresponding operations. Each user can have only one role.

■SaaS Management Functions

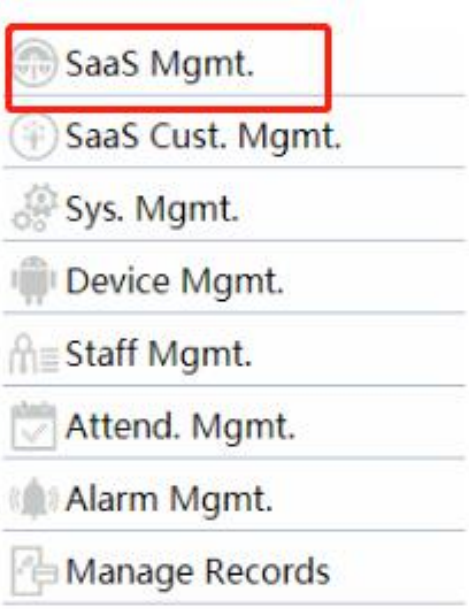
SaaS management functions are provided for the SaaS operator, not for the customer. The SaaS management

functions include SaaS system management, SaaS customer management, and device registration.

1.8. SaaS Management Functions

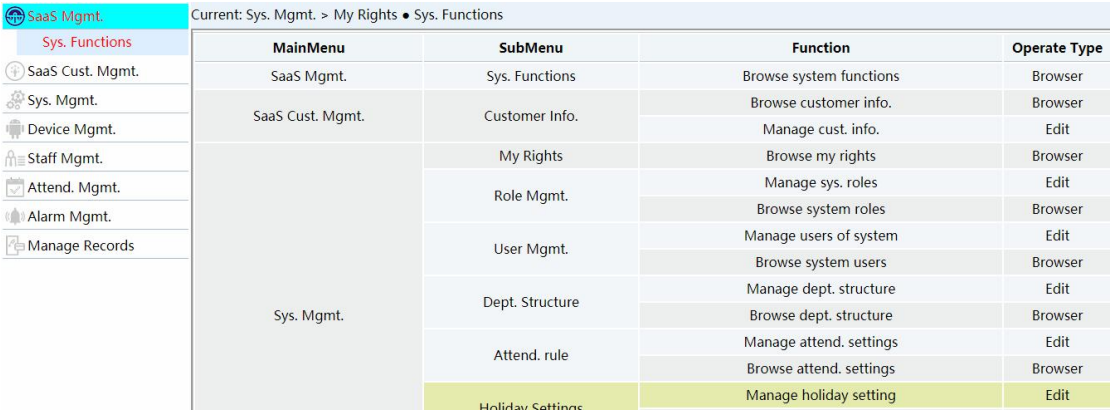
1.8. SaaS

The SaaS system management menus are as follows:



1.8.1. System Functions

The system functions interface allows you to view all the functions of the cloud platform of current version.



MainMenu	SubMenu	Function	Operate Type
SaaS Mgmt.	Sys. Functions	Browse system functions	Browser
SaaS Cust. Mgmt.	Customer Info.	Browse customer info.	Browser
		Manage cust. info.	Edit
Sys. Mgmt.	My Rights	Browse my rights	Browser
	Role Mgmt.	Manage sys. roles	Edit
		Browse system roles	Browser
	User Mgmt.	Manage users of system	Edit
		Browse system users	Browser
	Dept. Structure	Manage dept. structure	Edit
		Browse dept. structure	Browser
	Attend. rule	Manage attend. settings	Edit
		Browse attend. settings	Browser
	Holiday Settings	Manage holiday setting	Edit

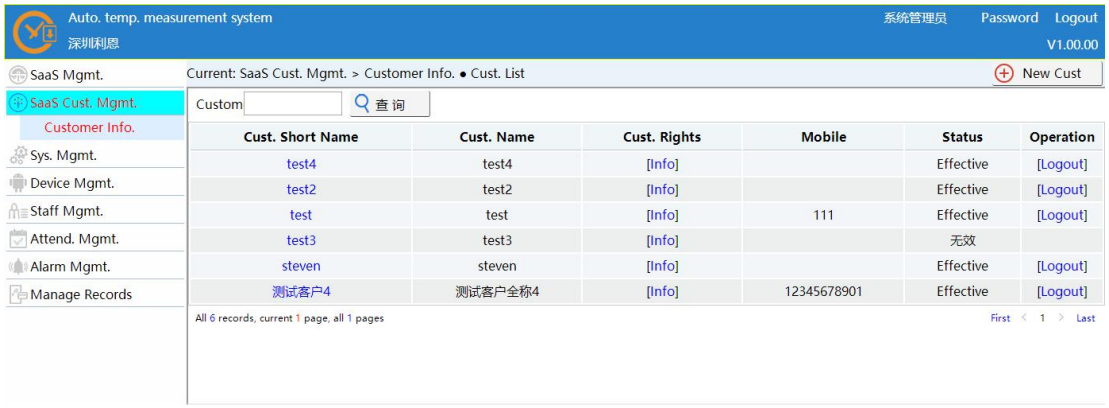
1.9. SaaS Customer Management

The SaaS customer management menus are as follows:

The SaaS customer management interface allows you to manage customers, such as viewing the customer information and creating a customer.

1.9.1. Viewing Customer Information

Click the left-handed menu. The customer list is displayed in the main operation area. You can filter the customer information based on the query conditions.

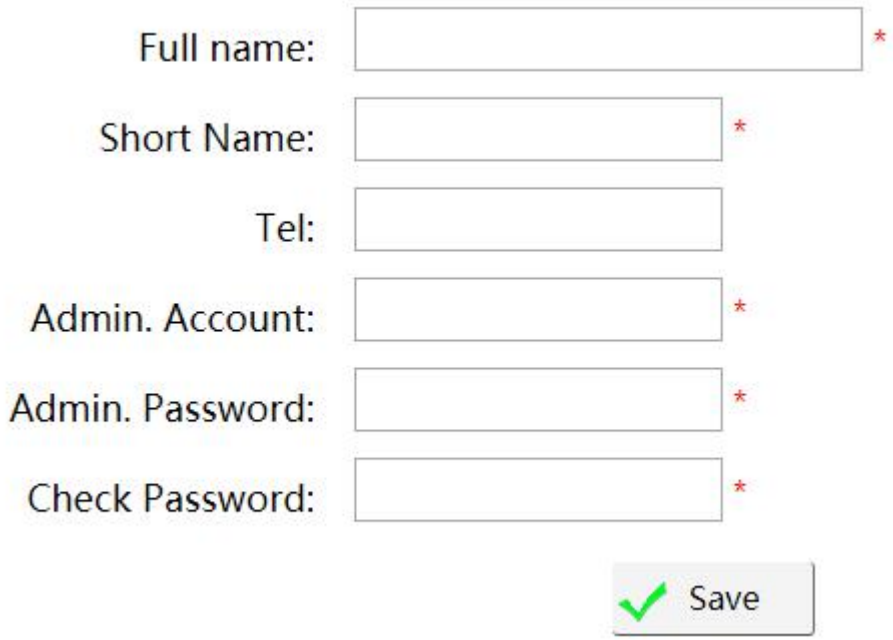


In the upper right corner of the main operation area, the **New Cust** button is displayed (all the addition buttons in this system are in this position, which will not be mentioned later).

1.9.2. Adding a Customer

Click the **New Cust** button on the list interface. On the addition interface, enter the customer information, and click **Save** to add the customer.

When adding a customer, enter the system administrator account and password. After the addition is successful, you can log in to the system by using the account and password.

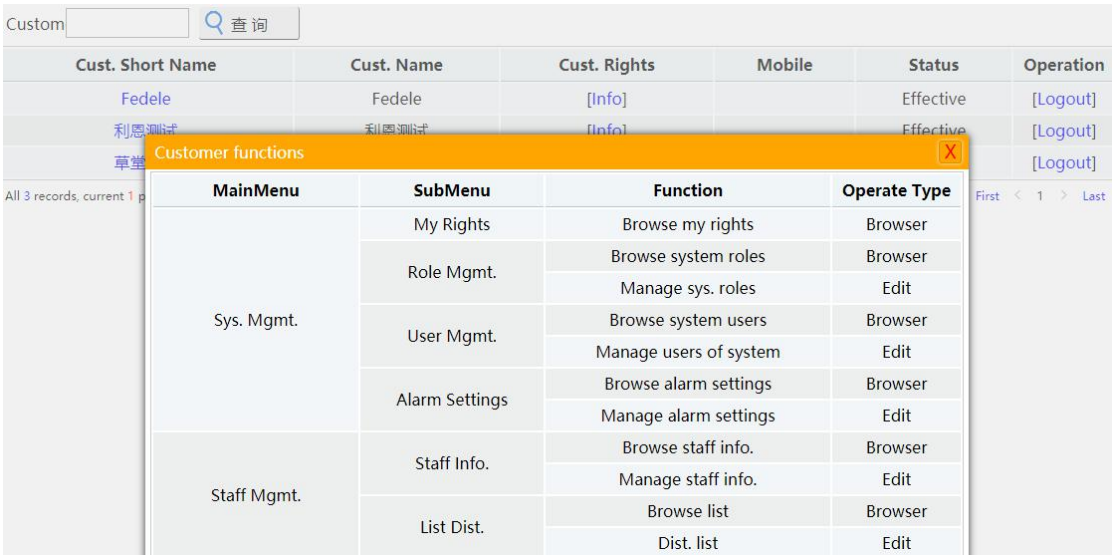


1.9.3. Deleting a Customer

For customers who no longer use the system, delete their information by clicking **Logout** on the right of the list. The users of the deleted customers can no longer log in to the system.

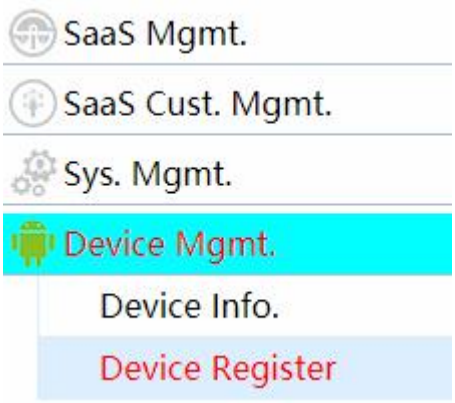
1.9.4. Viewing Customer Rights

On the list interface, click the **Info** link in the **Cust. Rights** column. You can view the customer's rights in the system.



1.10. Device Registration

The device registration menus are as follows:



Device registration is an SaaS function, which can be used only by the operator.

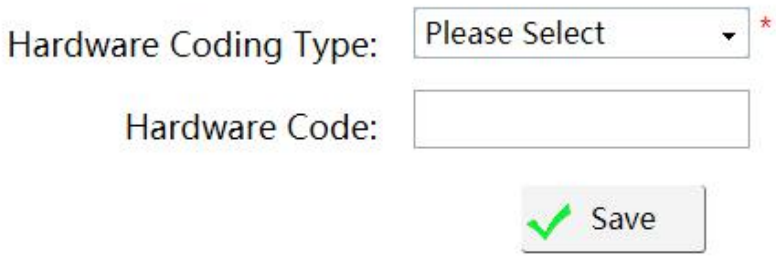
1.10.1. Viewing Registered Devices

Click the device registration menu on the left. The registered device list is displayed on the right, which can be filtered based on query conditions.

Hardware Code	Hardware Coding Type	所属客户	Device No.	Status	Operation
50UB0YJ6AK	CPU SN	深圳利恩		Registered	[Reset]
LNGNWCX99P	CPU SN	深圳利恩		Registered	[Reset]
5OUB0HVF1Q	CPU SN	深圳利恩	100007	Activated	[Reset]
5OUB0YJ6AK	CPU SN	深圳利恩	100010	Activated	[Reset]
LNGNWECMME	CPU SN	深圳利恩	100013	Activated	[Reset]
LNGNWHOA1B	CPU SN	深圳利恩	100014	Activated	[Reset]
5OUB0C41FS	CPU SN	深圳利恩	100015	Activated	[Reset]
LNGNW11IPA	CPU SN	深圳利恩	100016	Activated	[Reset]
DBF6P0A9R7	CPU SN	深圳利恩	100018	Activated	[Reset]

1.10.2. Adding Registration Information

Click the **New Register** button. Enter the hardware code of the device, and select a code type (currently, only CPU SN) to add the device registration information.



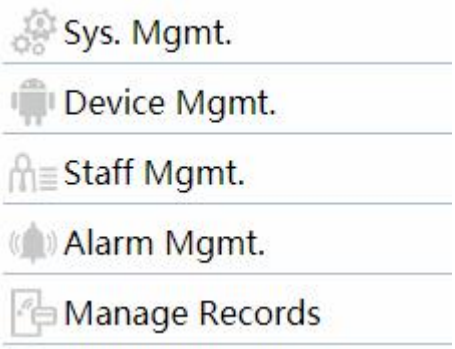
1.10.3. Resetting a Device

In the **Operation** column, click **Reset** to reset the specified device. The reset device is in the registered state. It can be used after you activate and add it again on the terminal.

■Customer Management Functions

The customer management functions allow you to manage the internal functions, devices, and personnel of the customer.

The functions include system management, device management, staff management, alarm management, and record management.



1.11. System Management

System management includes my rights, role management, user management, and alarm settings.

1.11.1. My Rights

You can view the customer's all functional rights.

MainMenu	SubMenu	Function	Operate Type
Sys. Mgmt.	My Rights	Browse my rights	Browser
	Role Mgmt.	Browse system roles	Browser
		Manage sys. roles	Edit
	User Mgmt.	Browse system users	Browser
		Manage users of system	Edit
	Alarm Settings	Browse alarm settings	Browser
		Manage alarm settings	Edit
Staff Mgmt.	Staff Info.	Browse staff info.	Browser
		Manage staff info.	Edit
	List Dist.	Browse list	Browser
		Dist. list	Edit
Device Mgmt.	Device Info.	Browse device info.	Browser
		Manage devices info.	Edit
Alarm Mgmt.	Query Alarm	Browse alarm records	Browser
Manage Records	Query Records	Browse records	Browser

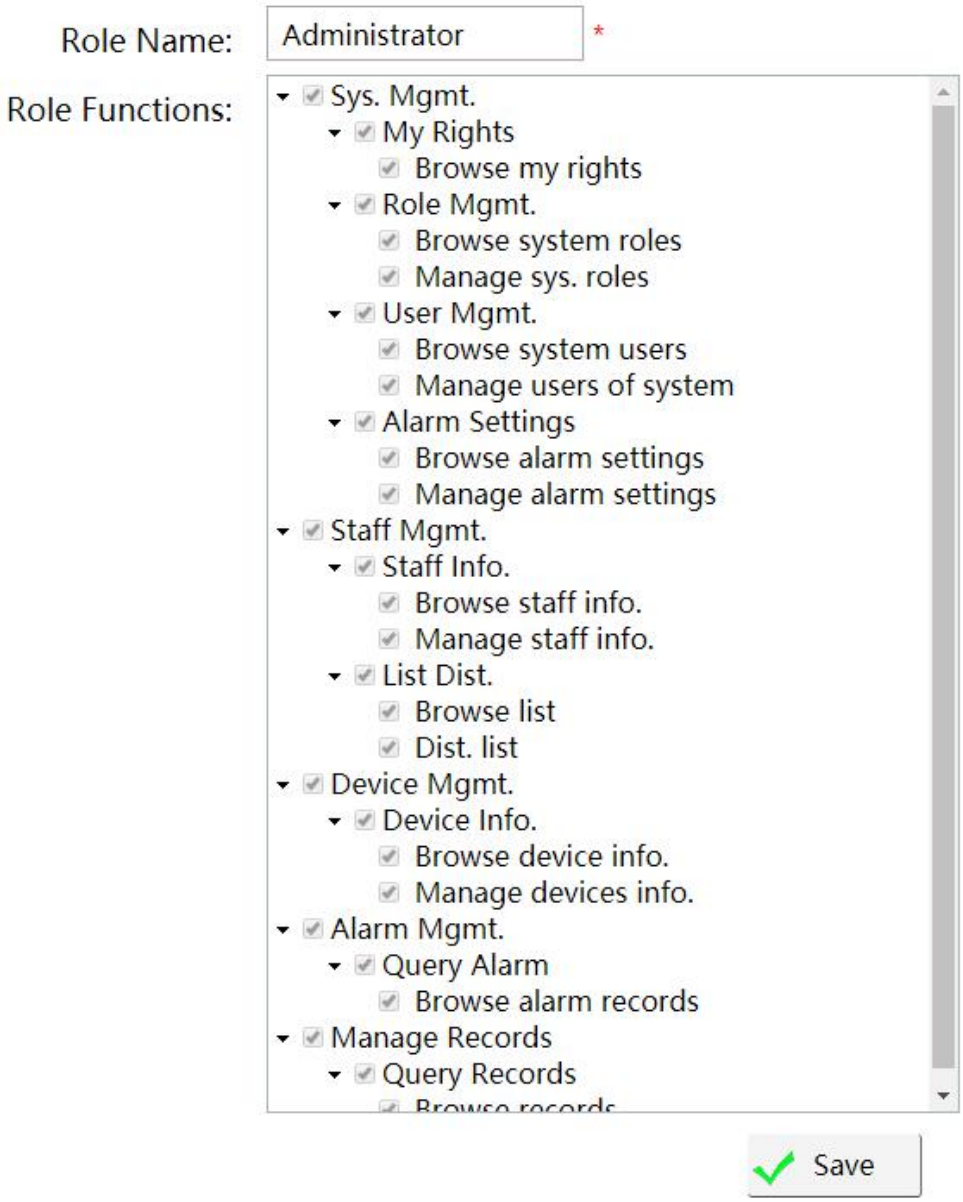
1.11.2. Role Management

You can add and delete roles, and assign rights to roles.

Click the role management menu. The existing role list is displayed on the right.

1.11.2.1. Viewing Roles

Click the role name. The interface for viewing and editing the role information is displayed, as shown in the following figure.

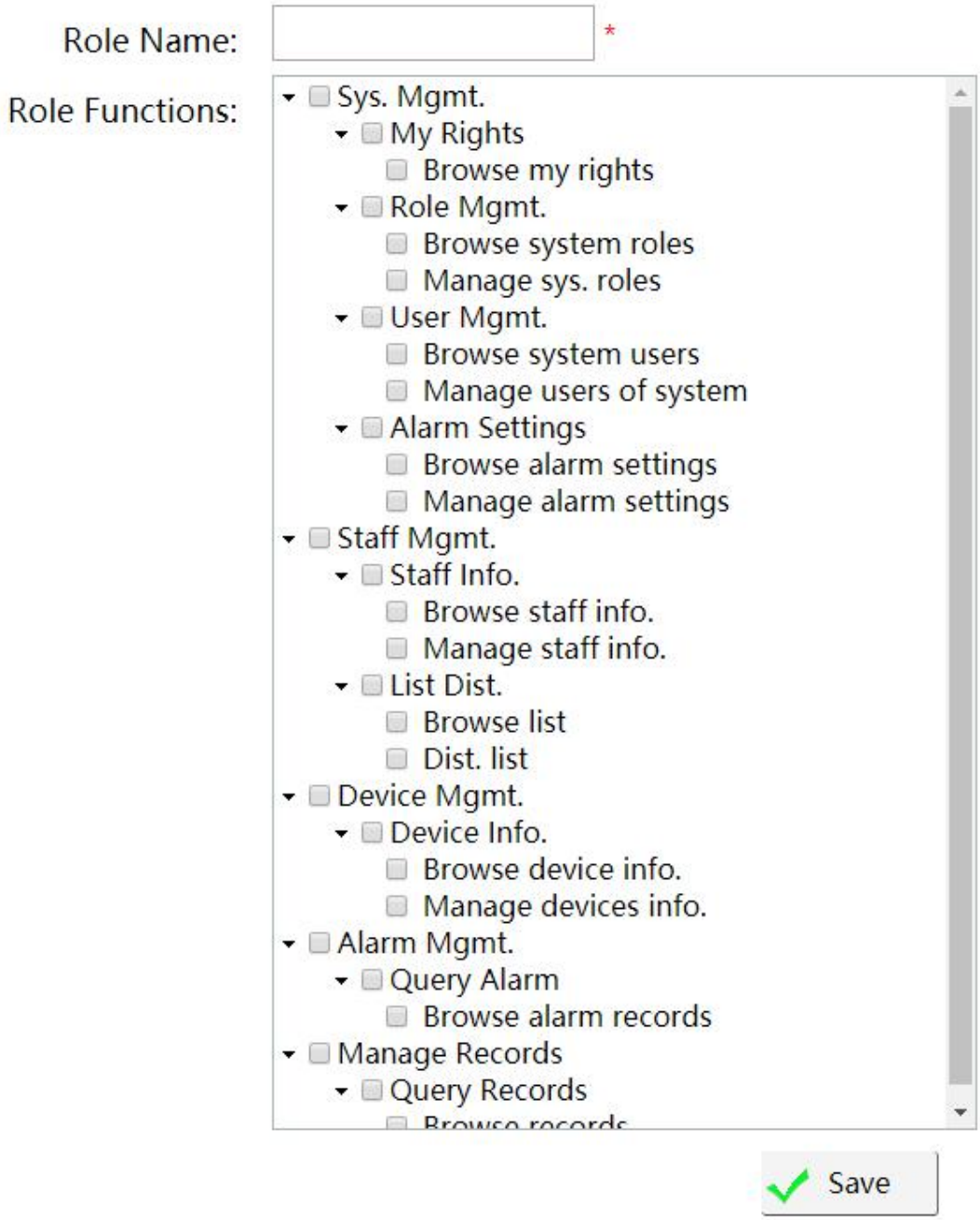


You can change the role name and adjust the role functions.

The system administrator always has all the rights in the system.

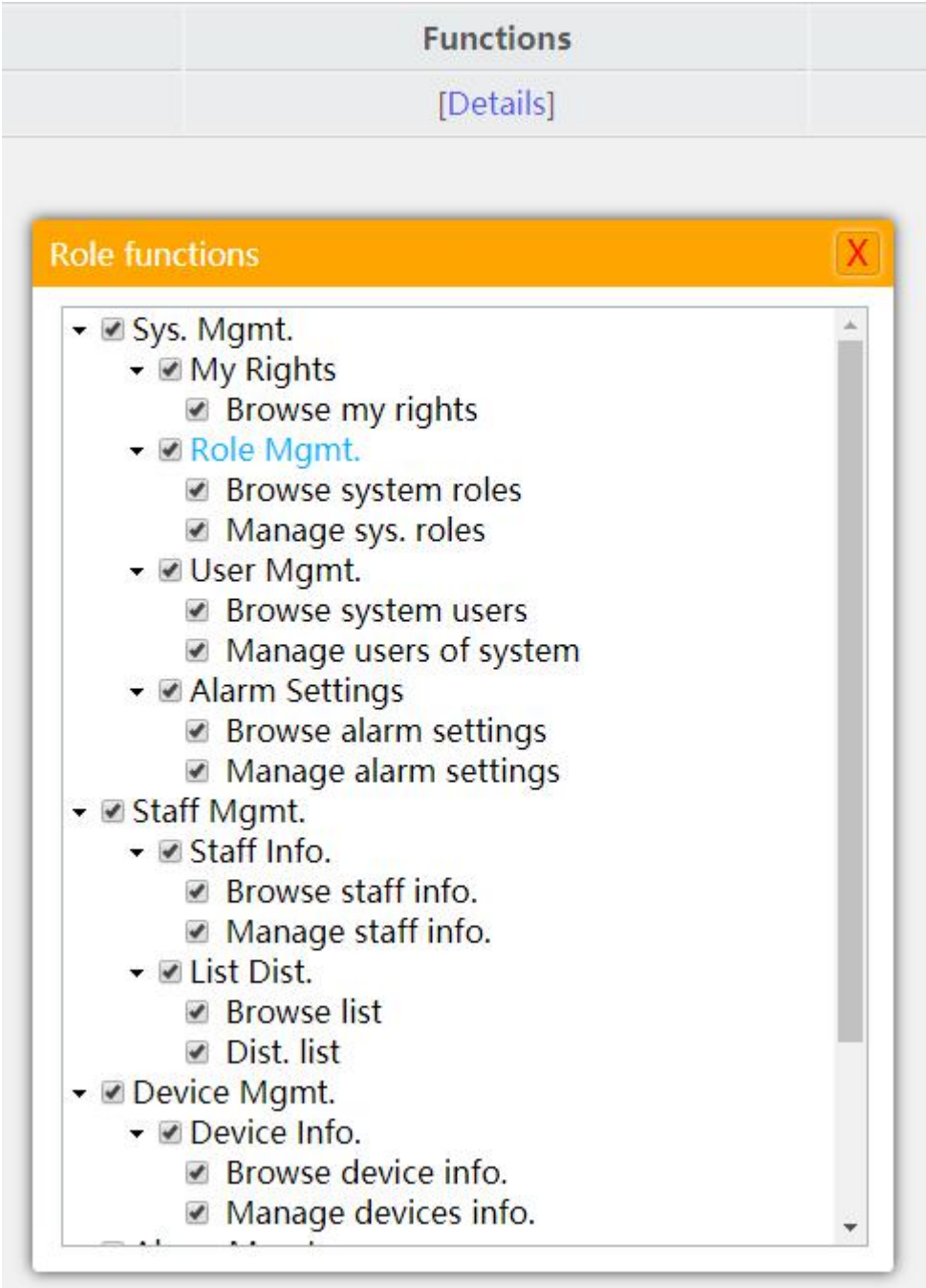
1.11.2.2. Adding a Role

Click the **Add Role** button to add a role and specify the role functions.



1.11.2.3. Viewing Role Functions

Click **Details** in the **Functions** column to view the functions of the role.



1.11.2.4. Viewing Role Users

Click **Details** in the **User** column to view the users for the role.

1.11.2.5.Deleting a Role

When a role is no longer in use, delete the role by clicking Logout in the **Operation** column. The role and related users can no longer log in to the system.

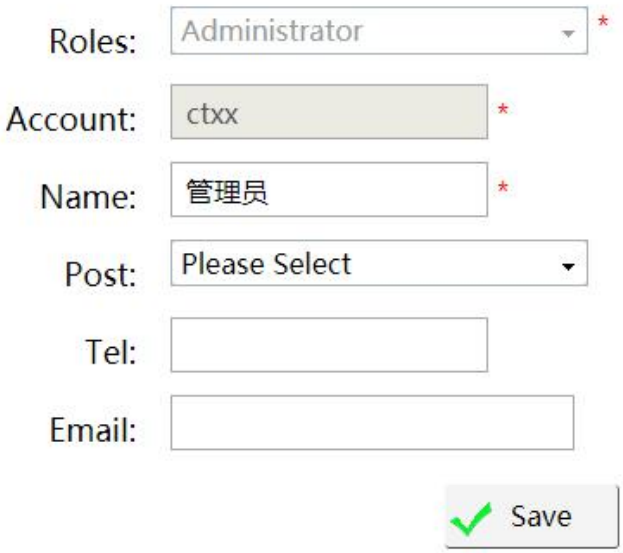
1.11.3. User Management

You can add and delete users, and assign roles to users.

Click the user management menu. The existing user list is displayed on the right.

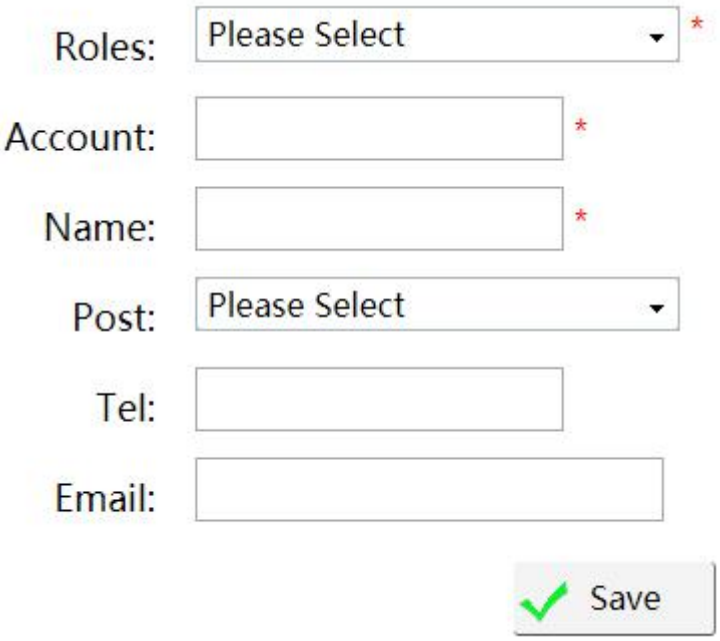
1.11.3.1.Viewing Users

Click the account link in the **Account** column. The existing user information is displayed in the main operation area and can be edited. The user role can be changed, and the account cannot be changed.



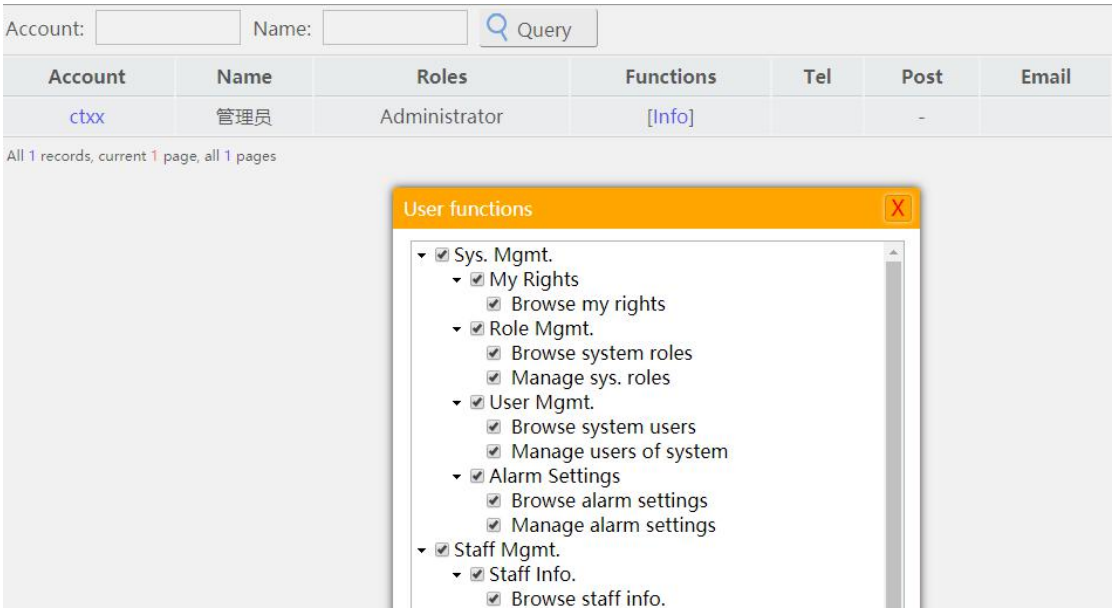
1.11.3.2. Adding a User

Click the **Add User** button. The **Add User** interface is displayed.



1.11.3.3. Viewing User Functions

Click **Info** in the **Function** column to view the functions of the specified user.



1.11.3.4. Deleting a User

Click the **Logout** link in the **Operation** column to delete the specified user. The deleted account can no longer log in to the system.

1.11.3.5. Resetting the Password

If you forget your password, click **Reset Password** in the **User** column to reset the password. The reset password is **123456**.

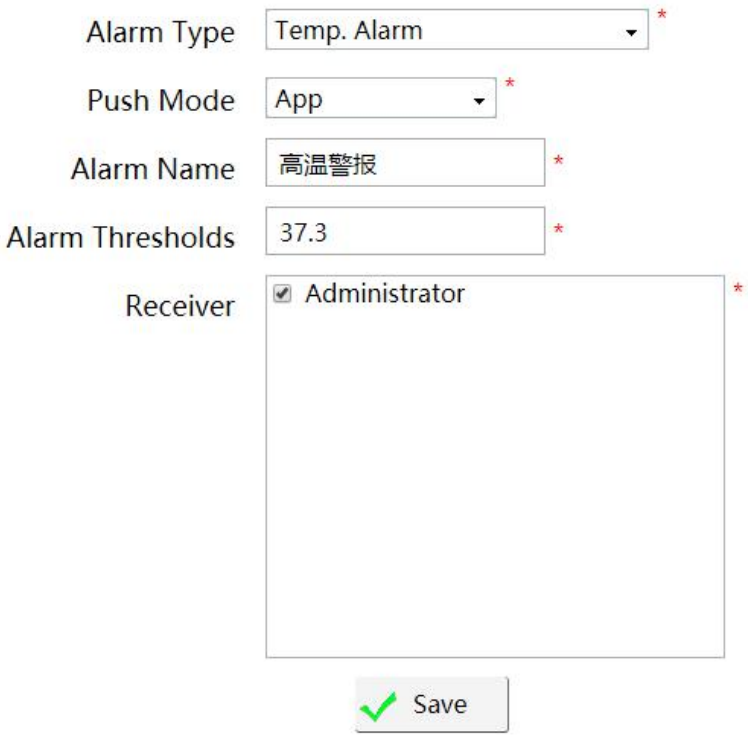
1.11.4. Alarm Settings

The alarm settings are used to set the alarm conditions of the system.
Currently, only temperature alarms can be set.
Click the alarm setting menu. The existing alarm list is displayed on the right.

Alarm Name	Alarm Type	Alarm Thresholds	Push Mode	Operation
高温警报	Overtemp.	37.3	App	[Delete]

1.11.4.1. Viewing Alarm Settings

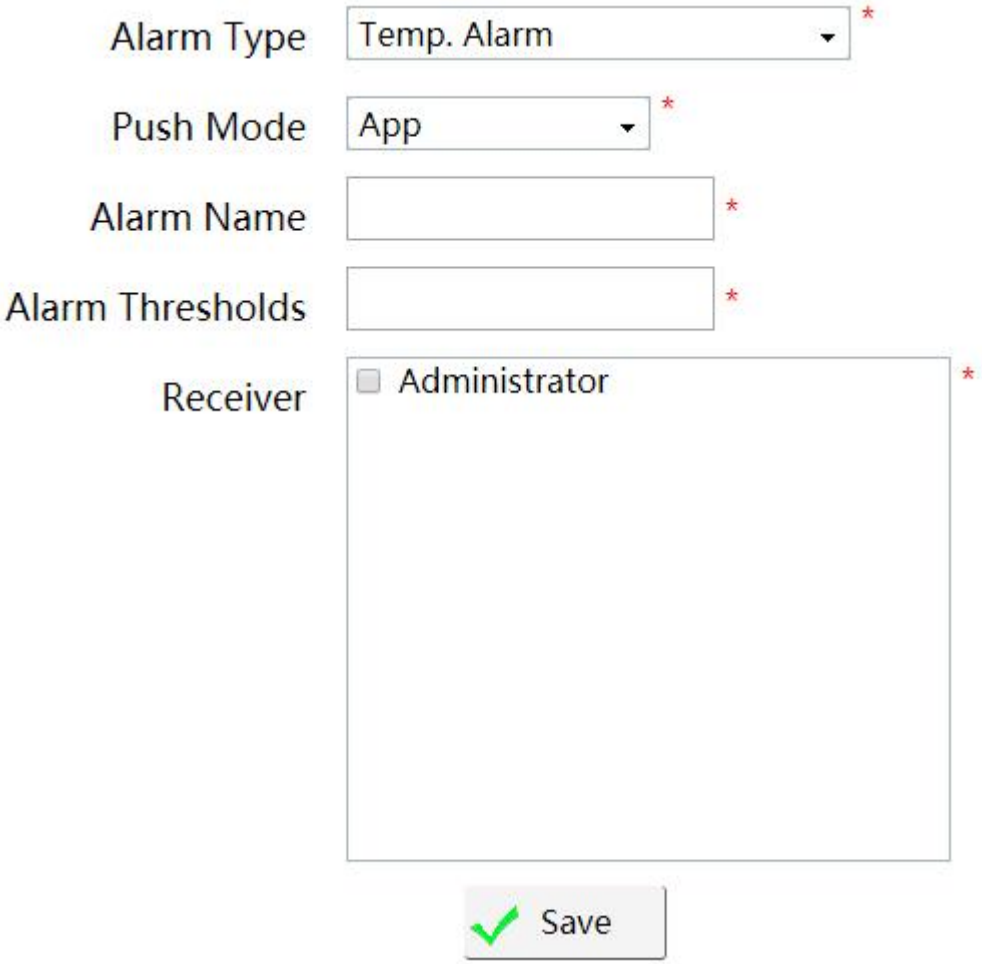
Click the alarm name in the **Alarm Name** column. The alarm details interface is displayed, where you can adjust the alarm settings.



Set the alarm type, push mode, alarm threshold, and alarm receiver.

1.11.4.2. Adding Alarm Settings

Click the **Add Alarm** button. The alarm settings interface is displayed. Enter the alarm information, and click **Save**.



1.11.4.3. Deleting Alarm Settings

Click **Delete** in the **Operation** column to delete the alarm settings that are not needed. The deleted alarm settings will no longer be triggered.

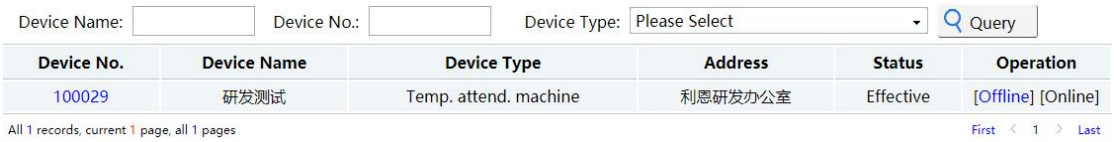
1.12. Device Management

You can manage the customer's devices, such as adding a device, and getting a device online or offline.

1.12.1. Device Information

You can view and manage customer devices.

Click the device information menu on the left. A list of all devices currently owned by the customer is displayed on the right.



1.12.1.1.Viewing Device Information

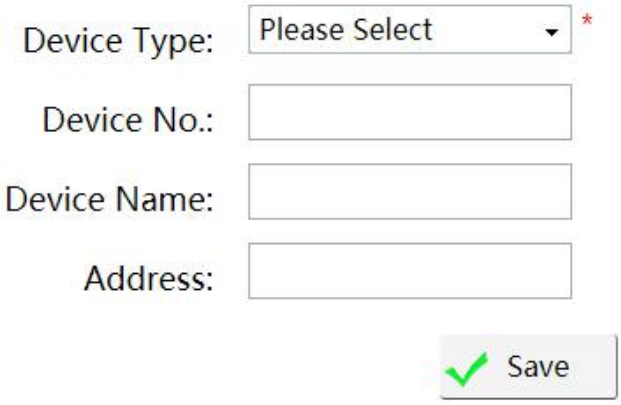
Click the device number in the **Device No.** column to view and modify the device details.

1.12.1.2.Adding a Device

Click the **Add Device** button, enter the device information, and click **Save** to add the device.

The activated device must use the customer's account to log in to the system, and can be used properly only after being adding here.

The device number required for adding a device is available on the terminal interface after the terminal is activated.



1.12.1.3.Getting a Device Online/offline

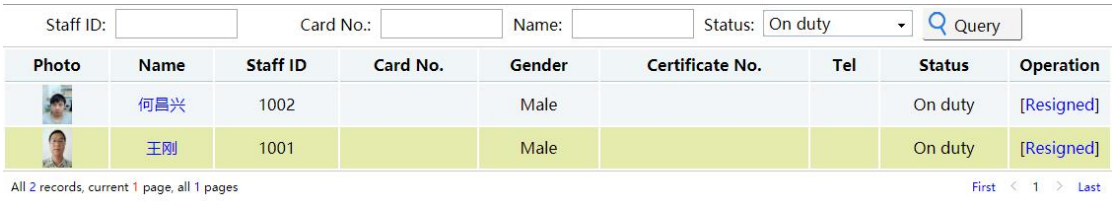
Click **Online** or **Offline** in the **Operation** column to get the device online or offline. The offline device cannot connect to the cloud platform (unless going online again).

1.13. Staff Management

You can manage the information of the personnel using the device, including staff information and list distribution.

1.13.1. Staff Information

You can add staff, modify staff information, and handle the resignation process .
Click the staff information menu. The staff information in the management system is displayed on the right.



1.13.1.1.Viewing Staff Information

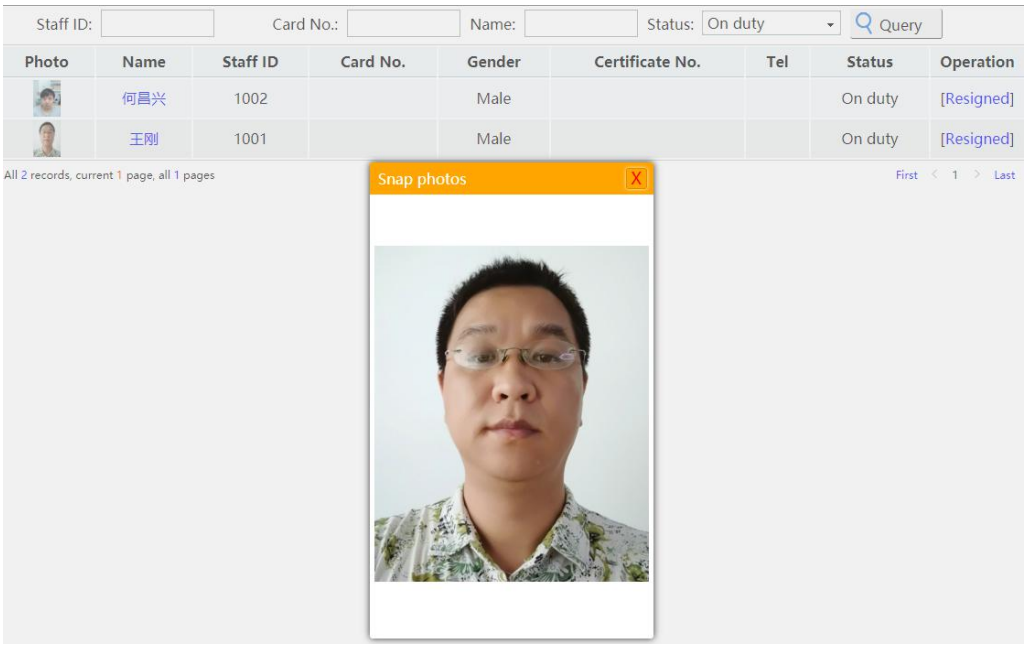
In the staff list, click the staff name in the **Name** column to view and edit the staff information.

You can modify the staff information, and change the staff photo.

Click the staff photo. In the file selection dialog box, select a photo, and upload it.

1.13.1.2.Viewing a Staff Photo

In the staff list, click the staff's photo thumbnail to view the big photo.

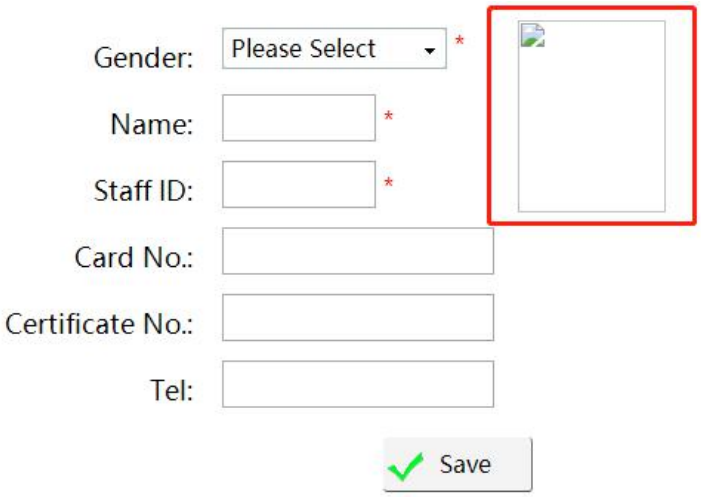


1.13.1.3.Adding a Staff

Click the **Add Staff** button. On the staff information interface, enter the staff information, and click **Save** to add the staff information.

Ensure that the staff ID is unique. In addition, it must contain only digits, so as to support the terminal devices from different manufacturers.

Photos can be uploaded only after the staff information is added successfully.



1.13.1.4.Staff Resignation

For staff who have left the company, set the resigned state by clicking **Resigned** in the **Operation** column. Resigned staff can no longer use the related terminal.

1.13.2. List Distribution

When the staff information changes, the system automatically pushes the staff information to the corresponding terminal.

In special cases, if you need to push the information of a certain staff to a certain terminal, you can use the list distribution function.

The list distribution function also allows you to view all distribution records, including automatic distribution records.

Click the list distribution menu. All distribution records and distribution status in the current system are displayed on the right.

1.13.2.1.List Reissue

Click **Reissue** for the list record to be reissued. The system automatically completes the reissue operation for the specified terminal.

1.14. Alarm Management

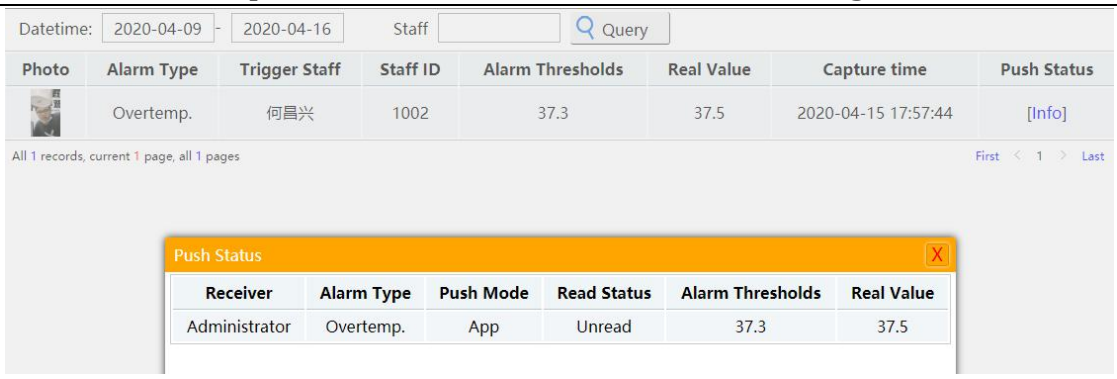
You can query the measurement records that have triggered alarms.

Click the alarm query menu. The alarm record list in the current system is displayed on the right. You can filter the alarms based on the query conditions.

The alarm record contains a real-time photo. Click the photo thumbnail to view the enlarged real-time sticker.

1.14.1. Push Status View

Click **Info** in the **Push Status** column to view the push status of the specified alarm record.

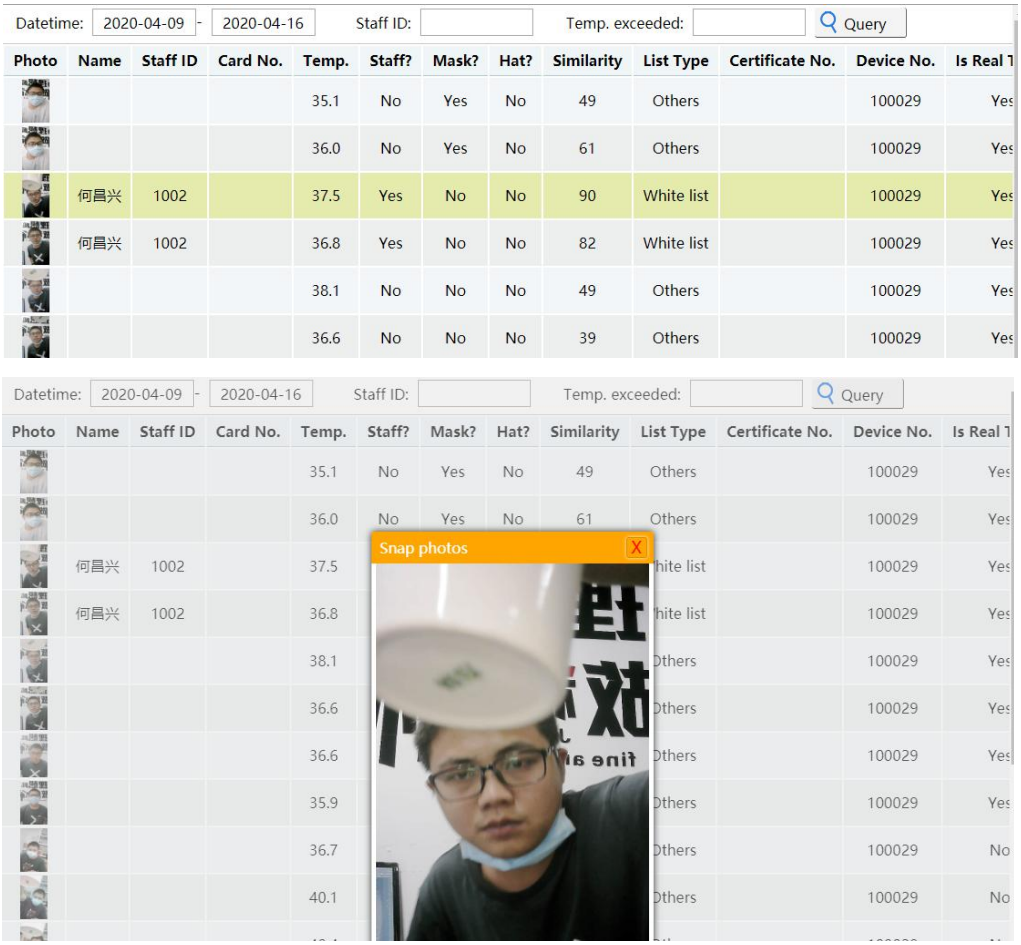


1.15. Record Management

You can query all the body temperature, face recognition and attendance records on the terminal.

Click **Query**. All the records in the system are displayed on the right. You can query the records based on the query conditions.

You can click the photo thumbnail in the record list to view the real-time photo.



For any persistent problems of the temperature measurement and face recognition machine, please contact the operation and maintenance factory.

Tel: 4006905904

FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any inte rference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interferenceto radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

・Increase the separation between the equipment and receiver.

・Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

・Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.