



Intelligent body temperature rapid screening system

Instructions

Welcome to use the Company's products, the Company reserves the right to the final interpretation of the products and the contents of the specification;

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Statement of responsibility

- *To the maximum extent permitted by law, the products described in this manual (including its hardware, software, etc.) are provided "as is" and may be defective, error or faulty, and the Company does not provide any form of express or implied warranty. No compensation shall be made for any special, incidental, incidental or indirect damages caused by the use of this manual or the use of the Company's products.*
- *you connect your products to the Internet at your own risk, including but not limited to the possibility that your products may be subject to cyber attacks, hacking attacks, virus infections, etc., the Company will not be responsible for the resulting product work anomalies, information leakage and other issues, but the Company will provide you with product-related technical support in a timely manner.*
- *When using this product, please follow the applicable laws strictly. The Company shall not be liable for the use of this product for infringement of third party rights or other improper uses*

Privacy Alerts

If you install our products, you may collect personal information about faces. In the course of using the product, you will need to comply with the privacy laws and regulations of your region or country to protect the legitimate rights and interests of others. If you provide clear, visible signs, inform the relevant rights holders of the existence of video surveillance areas, and provide appropriate contact information.

About this document

- This document is intended for use in multiple models, subject to physical appearance and functionality.
- Any loss resulting from failure to follow the instructions in this document is borne by the user.
- Any loss due to failure to follow the instructions in this document is the responsibility of the user.
- This document may contain technically inaccurate, or inconsistent with the product's features and operations, or typographical errors, subject to the Company's final explanation.

Precautions

- Please note the installation environment of the equipment: Do not use the equipment in high temperature, low temperature or high humidity environment, the specific temperature and humidity requirements refer to the equipment's parameter table.
- Avoid placing equipment in direct sunlight, poorly ventilated locations, such as heaters, heating, etc. (ignoring this may result in fire hazard).
- Avoid placing equipment in direct sunlight, poorly ventilated locations, such as heaters, heating, etc. (ignoring this may result in fire hazard).
- Equipment used indoors should not be exposed to installation in places that may get caught in rain or very wet.
- Do not place the device in an environment with corrosive gases, which can cause damage to the device.
- Do not touch the image sensor directly, if cleaning is necessary, gently wipe the soft clean cloth with alcohol, gently wipe away the dust, and when the appliance is not in use, add the dust cover to protect the image sensor.
- Device access to the Internet may face network security problems, please strengthen the protection of personal information and data security. Please contact us when you find that your device may have a network security risk.
- Please keep all the original packaging materials of the equipment, so that

when there is a problem, use the packaging materials to pack the equipment, send it to the dealer or return to the manufacturer to deal with. The Company shall not be liable for accidental damage in transit caused by non-original packaging materials.

Chapter One Product Overview

1.1 Introduction to the product

Intelligent body temperature rapid screening system is a face recognition multi-functional product. Intelligent body temperature rapid screening system, plug and play to quickly screen body temperature. Support face, swipe /ID card, password a variety of verification methods, support face recognition control access control electric lock, face recognition attendance, support infrared temperature detection and other functions. Can be used in schools, hospitals, airports, buildings, enterprises, office buildings, financial outlets, key area protection, bus stations, long-distance passenger stations and other places.

Product model: HV-8S101



1.2 Product features

- Wall-mounted industrial design, stable performance, elegant and generous, smooth lines.
- With a 10.1/8-inch display, the software interface and operating tips are displayed to display the face frame and detect the closest face in real time.
- 2 million wide-angle cameras.
- Infrared body temperature detection, second-level temperature measurement
- Support face recognition access control management (one year free cloud service
- Support for face recognition attendance (one year free cloud service)
- Support for 4G/wired network transmission
- Support for LOCAL STORAGE OF TF cards
- Facial recognition distance 0.5m-6m;
- Using deep learning algorithm, the recognition speed is fast and the accuracy is higher.

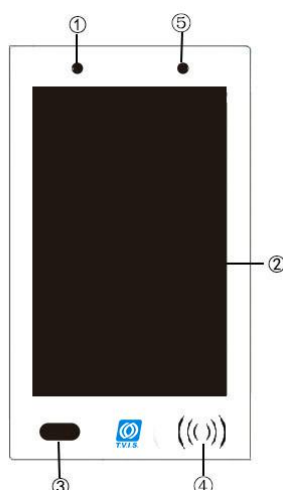
1.3 Product parameters

model	HV-8S101-T
Hardware	
CPU	Core Micro RK3288 QuadCore 1.8GHz QuadCore GPU Mali-T764
Memory	2G (default) to expand up to 4G
Store	Default 16G
Display	10.1 inch touch display, resolution 800 x 1280
Appearance material	Aluminium housing, tempered glass panel
Performance	
Identify height	1.4m-1.9m
Identify distances	0.5-6m
Temperature detection distance	0.5m
Identification technology	Supports wearing a mask to recognize and measure body temperature in infrared
Identification time	1:1 Comparison time s 1S/person
Identification technology	Near-infrared body detection, embedded visible face recognition
Status display	Name announcement display, custom information broadcast display
Motherboard interface	
Power interface	1 DC12V input
Network interface	1 RJ45 10m/100m Adaptive Ethernet port
4G	4G (All-Netcom)
HDMI interface	1
SD Card Interface	Up to 64G
USB2.0	2 usb external
Control output	A access control system interface
Camera parameters	
Camera	2 megapixel, wide dynamic camera automatic white balance, automatic backlight optimization
Effective pixels	1920*1080
Wide dynamic range	≥100db
Human temperature measurement parameters	
Resolution	32*24
Perspective	55° *35°
Temperature range	-40℃-300℃
Temperature distance	0.5m
Temperature accuracy	±0.4

General parameters	
Operating temperature	-10℃ - +50℃
Working humidity	10-90% relative humidity, no condensation
Working power	DC 12V5A
Size of the device	290mm*168.9mm
Weight of the equipment	About 2.0kg

1.4 Appearance

1.4.1 Product front panel



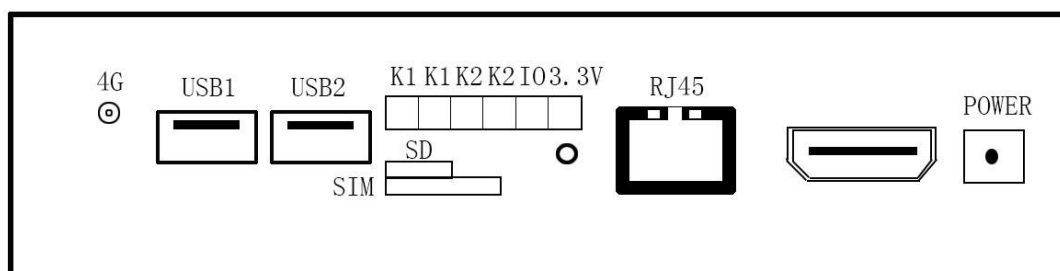
Description:

- ① Face Recognition Camera
- ② Display
- ③ Infrared Proximity Detection/D2-dimensional Scan (Customized)
- ④ IC card reader/ID card reader (customized on demand)
- ⑤ Infrared temperature detection

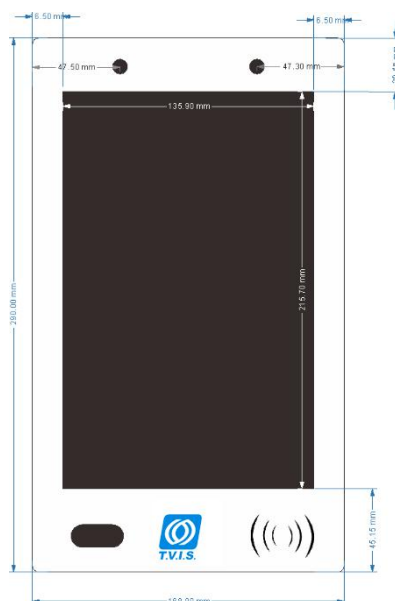
1.4.2 Product rear panel



Rear panel interface



1.5 Product size



Chapter 2 Equipment Installation

2.1 Installation environment

- Install the device indoors to avoid direct sunlight/bright light.
- Please keep the ambient light illumination at 100 Lux
- When the operating temperature of the equipment is below 15 degrees C, warm up the device with power up for 15 minutes to avoid abnormal temperature measurement sensor.



Light and environmental instructions:

1. Installation of ambient light reference:

Candle: 10lux

Bulb: 100~840lux

Daylight:

>1100lux



2. Avoid backlight, direct sunlight, sunlight through windows, light at close range



2.2 Device installation

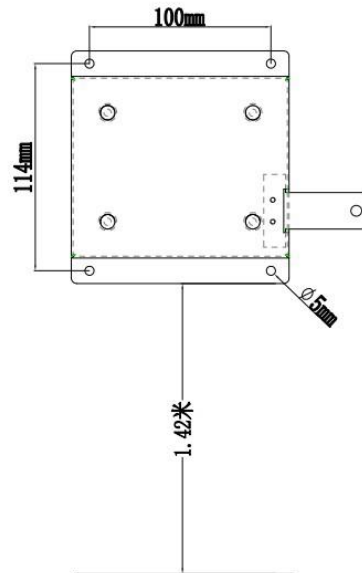
2.2.1 Pre-installation

Before the terminal installation, prepare the relevant installation tools such as impact drill, wrench, tape measure, screwdriver, etc., check whether the surrounding environment is suitable for installation, and then understand the installation method, check whether the terminal functions are intact, parts are complete.

2.2.2 Wall mount

Select the terminal installation position, mark out the wall hanger mounting hole, and then start drilling, plug in the installation plug, with terminal installation screws to secure the wall hanger. If the screening target is adults, the best mounting height of the wall hanger is 1.42 meters from the ground, other groups can adjust the installation height according to the actual

situation.

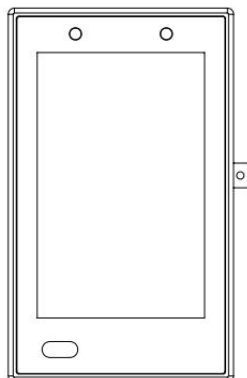


- *Connection of the cable*

Remove the rear cover of 4 fixed screws, according to the image below to connect the adapter and antenna (if required), the terminal can be used offline, such as offline use, the terminal does not need to access 4G/ network cable, after the connection is completed to install the cable on the back cover (before installing, please disconnect the adapter power operation).

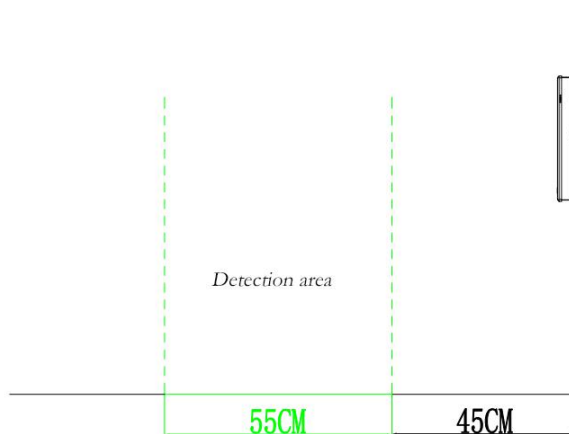
- *Secure the terminal to the wall hanger*

Align the four hanging nails protruding from the wall hanger with the mounting holes on the back of the terminal, adjust the terminal down to the right keyhole and align the terminal on the wall hanger.



- *Ground id*

In order to improve screening efficiency, the test area identification can be pasted on the ground in front of the terminal to direct the screening object to stand in the designated area for testing.

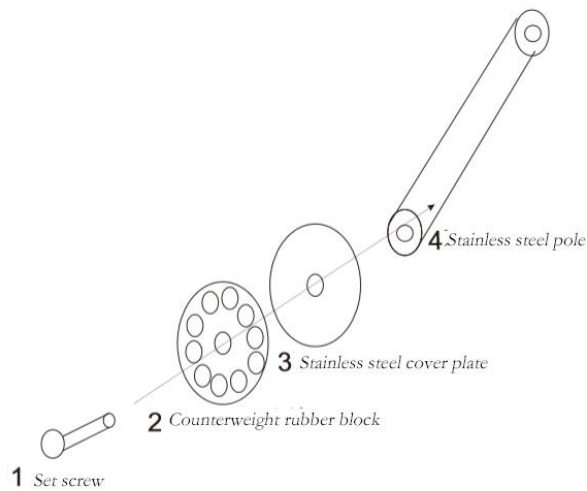


Standard test distance diagram

2.2.3 Stick-type mounting

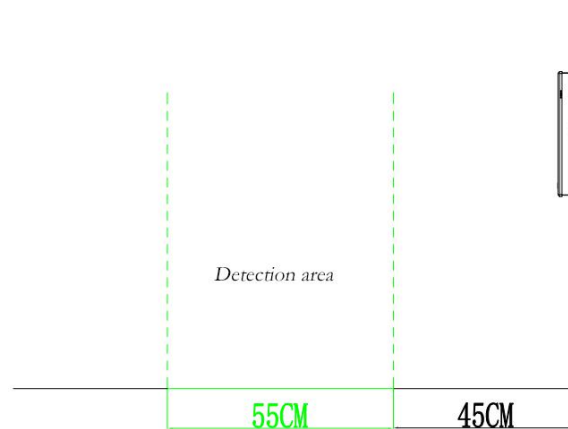
1. First with bolts the plastic counterweight block, stainless steel site and pole fixed.

Install the following diagram

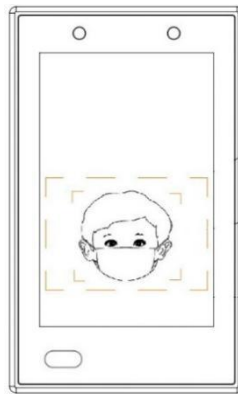


2. Fixed terminal backplate holder
3. Install the installed terminal to the pole,
4. Connecting device cables
5. Labeling

In order to improve screening efficiency, the test area identification can be affixed on the ground in front of the terminal to guide the screening subject to stand in the designated area for testing, as shown in the figure below

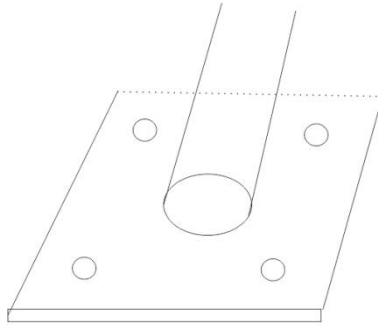


6. Adjust the terminal angle, display the portrait information in the middle of the screen as shown in the figure below, and lock the screws.



2.2.4 Desktop installation

1. Select the installation location (recommended installation height of 1.4M)
2. Secure the desktop mounting bracket. As shown in the figure below

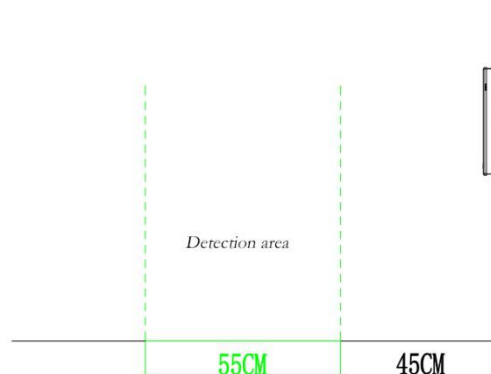


3. Install ingress support

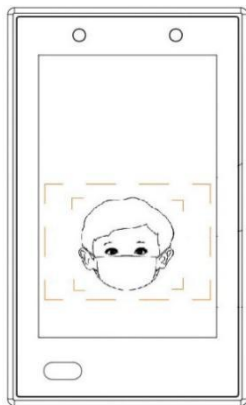
4. Connecting device cables

5. Labeling

In order to improve screening efficiency, the test area identification can be affixed on the ground in front of the terminal to guide the screening subject to stand in the designated area for testing, as shown in the figure below

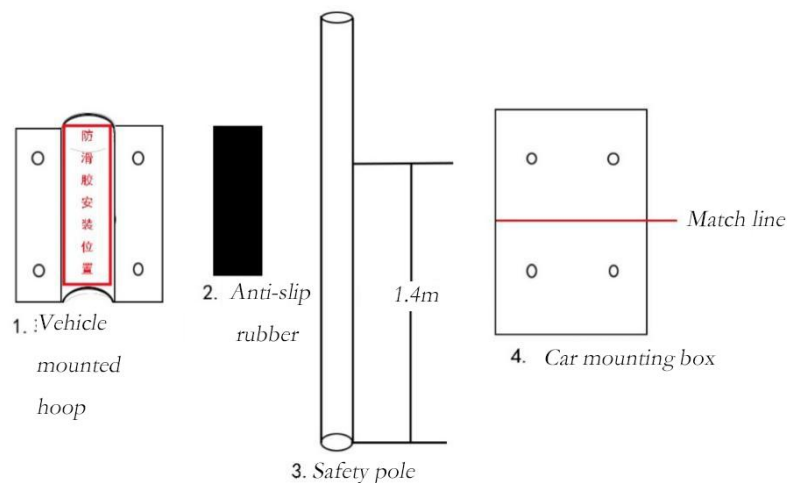


6. Debug the terminal angle, the face in the screen display effect is shown in the following image



2.2.5 On-board installation

1; Select the safety lever to be installed (near the front door or driver's guard door) and measure the mounting height and mark it. Paste the anti-slip adhesive into the car installation box hugging hoop, install the car installation box. As shown in the figure below;

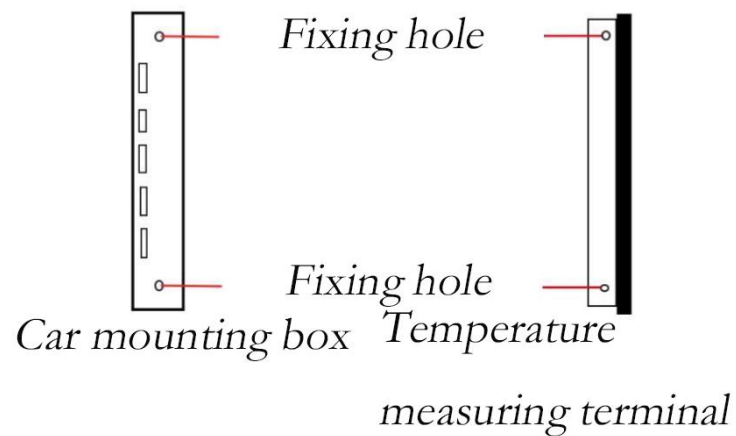


2. Laying equipment cables

Cable concealment, while on-board installation requires black bellows

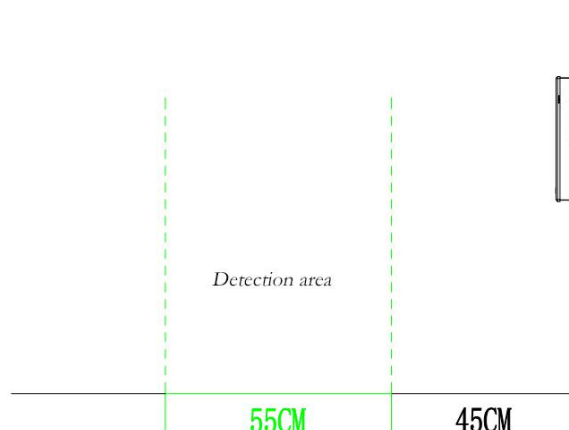
3. Terminal fixation

The temperature monitoring terminal connects the power cord and related cables, and then the temperature-measuring terminal is embedded in the vehicle installation box, and then the screws are secured. Here's the picture

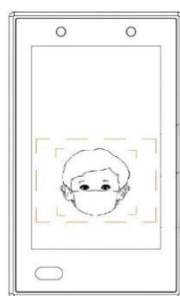


4. Labeling

In order to improve screening efficiency, the test area identification can be affixed on the ground in front of the terminal to guide the screening subject to stand in the designated area for testing, as shown in the figure below



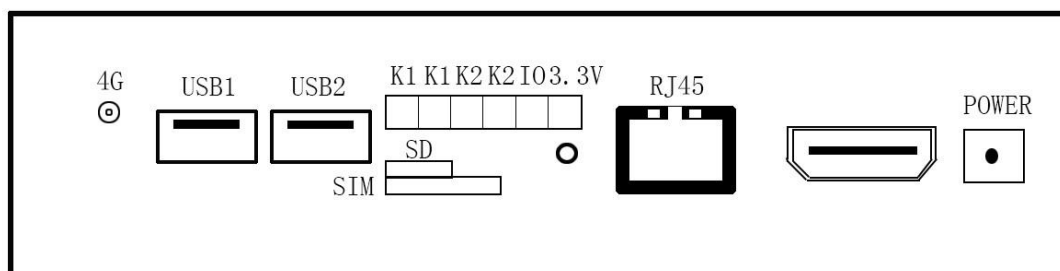
5. Adjust the terminal angle, display the portrait information in the middle of the screen as shown in the figure below, and lock the screws



2.3 Face recognition access installation

2.3.1 Face Recognition Access Interface

Face Recognition Access System Interface:: K1 K1, K2 K2, IO, 3.3V。



2.3.2 Cable requirements

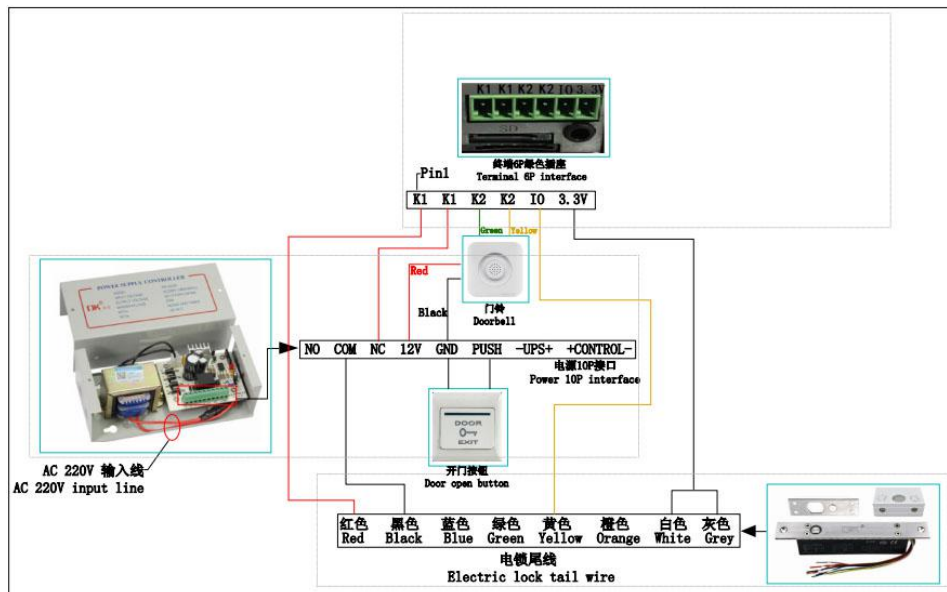


Instructions for the use of the cable:

- *If the 1.0mm national standard line is used, a 12V switching power supply is required and the on-site construction wiring distance (switching power supply to equipment distance) does not exceed 20m.*
- *If the 1.5mm national standard line is used, a 12V switching power supply is required and the on-site construction wiring distance (switching power supply to equipment distance) does not exceed 30m.*
- *If the national standard line of 2.0mm and above is used, a 12V switching power supply is required and the on-site construction wiring distance (switching power supply to equipment distance) does not exceed 40m.*

2.3.3 System connection diagram

Face Recognition Access System Wiring Diagram



2.3.4 Connecting the cable

- The appliance must use the recommended wire assembly (power cord) in the area and use it within its rated specifications.
- Please carefully complete the connection of the circuit. Violations of the relevant connection procedures will result in damage to the device.
- All external wiring parts must prevent short circuits.
- The power cord cannot be connected until all the wiring connections have been completed.
- Make sure that the positive and negative connections to the power supply are correct.

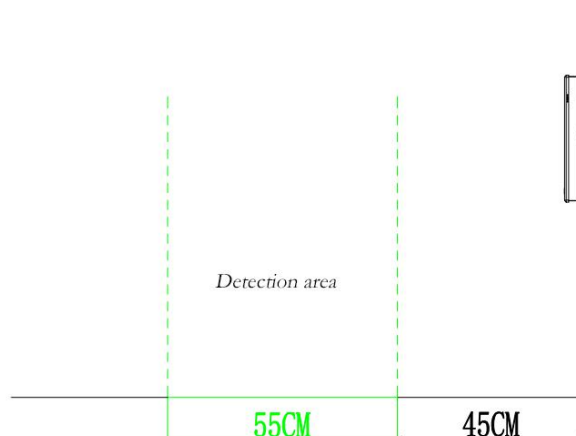
Chapter III Temperature Measurement Guidelines

3.1 Equipment calibration

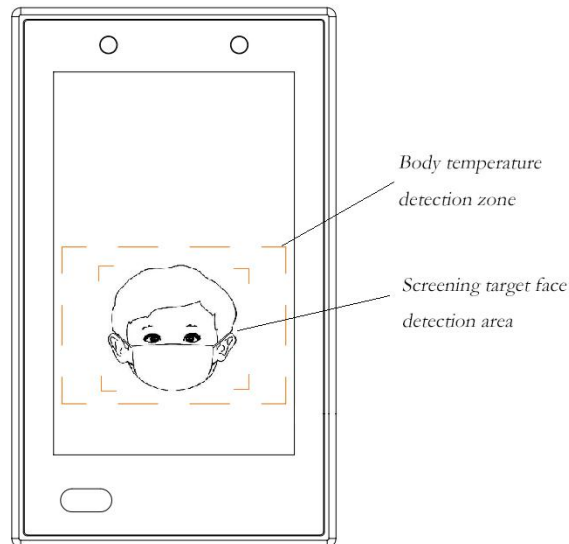
After the terminal starts, the system will automatically calibrate the functions, please wait patiently for 10 to 15 minutes, please do not turn off the power in the middle.

3.2 Temperature test

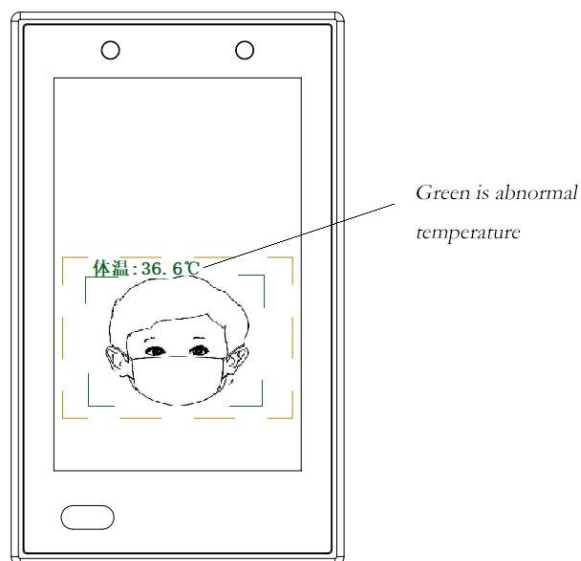
- When the screening object enters the detection area, the face is right towards the display.



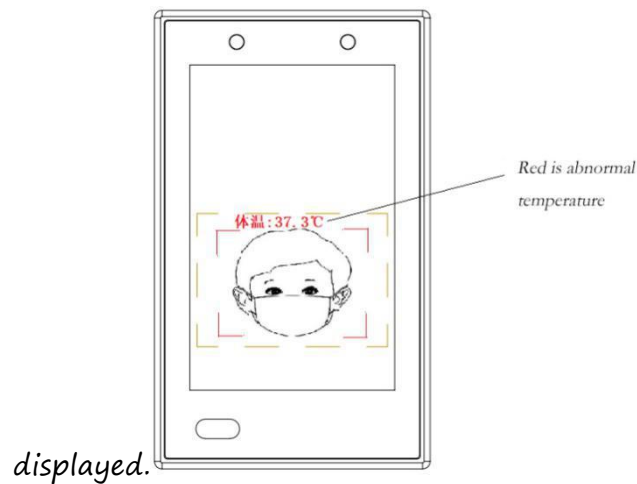
- Move back and forth in the detection area to make the face fully displayed in the detection area in the display.



- When the terminal is tested for temperature, a tone is sent "Please keep" and after keeping the face in the detection area for 2 seconds, the terminal emits a tone "Body temperature is normal, the test is over" and the temperature data is displayed.



- If the body temperature is at the terminal at 37.3 degrees C, the alarm tone is issued and the voice prompts "Abnormal body temperature, end of test" and the body temperature data is



- When testing with a mask, individuals may be unable to detect faces because facial features are obscured by masks, making it impossible to conduct a temperature test. In this case please adjust the mask properly downwards and retest.
- All test results are automatically saved to the TF card in the terminal (2000 people are screened daily, test data is stored for approximately 200 days and will be overwritten after more than 200 days).

Chapter 4 Cloud Services

4.1 System management

4.1.1 User management

- Add a user

System Management ----- .Add

The following dialog box pops up

Edit account number, user name, mobile phone number, gender information, select the group, set the role (user level super save can be.

- User queries

[System management]-----[User management]-----[Search]

Enter the account number or keyword you want to query in the search dialog box, and click to search for relevant information.

4.1.2 Device management

- Add a device

[system management]-----[Device management]-----[Increase]

- Search

[System management]-----[User management]-----[Search]

Search by software type, device grouping, online situation, and keyword

Device status

- *Modify*

Device name: Customers can set their own device name SIM card number:

record the use of SIM card number, easy to manage and statistics

Installation address: Address used by the device Equipment types:

attendance equipment, access control equipment, canteen equipment, data

processing terminals, rapid screening systems, multi-functional

temperature monitoring machine Grouping: Select to set up grouping

(group settings see Group Management) Device not updated: Set whether

the device is updated

- *Delete:*

Click the delete button to delete the current device

- *Binding*

Set up devices to import information for different employees and divide

different permissions.

4.1.3 Version management

- *emotely update the APP*

The cloud service pushes the updated APP directly over the Internet to the

updated APP without having to be installed manually. The front end can get

the latest version by rebooting, or the administrator manually updates the

specified version in the background

4.1.4 Group management

The device is divided into different institutions, so that users can divide permissions.

[System management]-----[Group management]-----[Increase]

Grouping can be added two levels, different users see the content related to grouping, parent grouping users can view the content of child groups, version management is also related to grouping

The addition dialog box looks like this:

Group Name: User Edits

Description: Describe the place or place where the equipment is used.

Grouping can be modified.

4.1.5 Ad management

The cloud service pushes the advertising information to the face recognition intelligent temperature rapid screening terminal display and loop playback through the network.

4.1.6 Employee management

Conduct employees and manage department groups.

- *Increase your staff*
- *[System management]-----[Employee management]-----[Increase]*

Enter information such as employee name, gender, work number, ID number, employee status, selection grouping, department, upload profile picture, etc.

- *Modifying employee information*

The editing information is shown in the image above. Employee name, gender, work number, ID number, Ic card number, employee status, selection grouping, department, upload profile picture and other information.

- *Remove employees*

Check the employee you want to delete, click Delete.

- *Employee information editing*

Select the employee you want to edit, click Modify, edit the employee's name, gender, work number, ID number, employee status, select grouping, upload avatar and other information.



Description:

When an administrator is working on an employee, the employee's information is synchronized to the front-end device in real time. The size of the picture is limited to 100K, the picture must contain clear face information.

4.2 Feature management

4.2.1 Body temperature management

- *Search and query of body temperature data*

[Functional management]-----[Body temperature management]-----[Search]

Select Start-End Time for query

Search: Enter keywords to retrieve

Select Start-End Time for query

- *Search: Enter keywords to retrieve*
- *Body temperature data export report*

4.2.3 Attendance record

- *Searching and querying access records*

[Feature management]-----[Attendance record]-----[Search]

Select the appropriate search criteria and click search for a query.

- *Attendance Record Export Report*

[Feature management]-----[Attendance record]-----[Exports]

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 interference received, including interference that may cause undesired operation.

Any 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 interference to 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.