

Training of AI-Super Precision Face Recognition Machine

Excellence
EXCELLENCE

Innovation
INNOVATION

Values
VALUES

Integrity
INTEGRITY

Dedication
DEDICATION

R&D Center

Technical Support Dept

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PART ONE

Selling point of the product

Product Parameter

Product type: intelligent terminal

Camera: 2 million cameras

Waterproof:IP66

Operating system: Linux

Display: 7 inch IPS hd 1024* 600,300 CD /m2

Hardware interface: RS485, RS232, RJ45, relay

output Fill light lamp: infrared fill light, white light

fill light Rated voltage: dc 12V input

Panel size: 219x111x21.5mm

Stand size: 33x189mm

Algorithm Capabilities

Temperature measuring distance: 0.5-1.0 m 0.75 m is the best

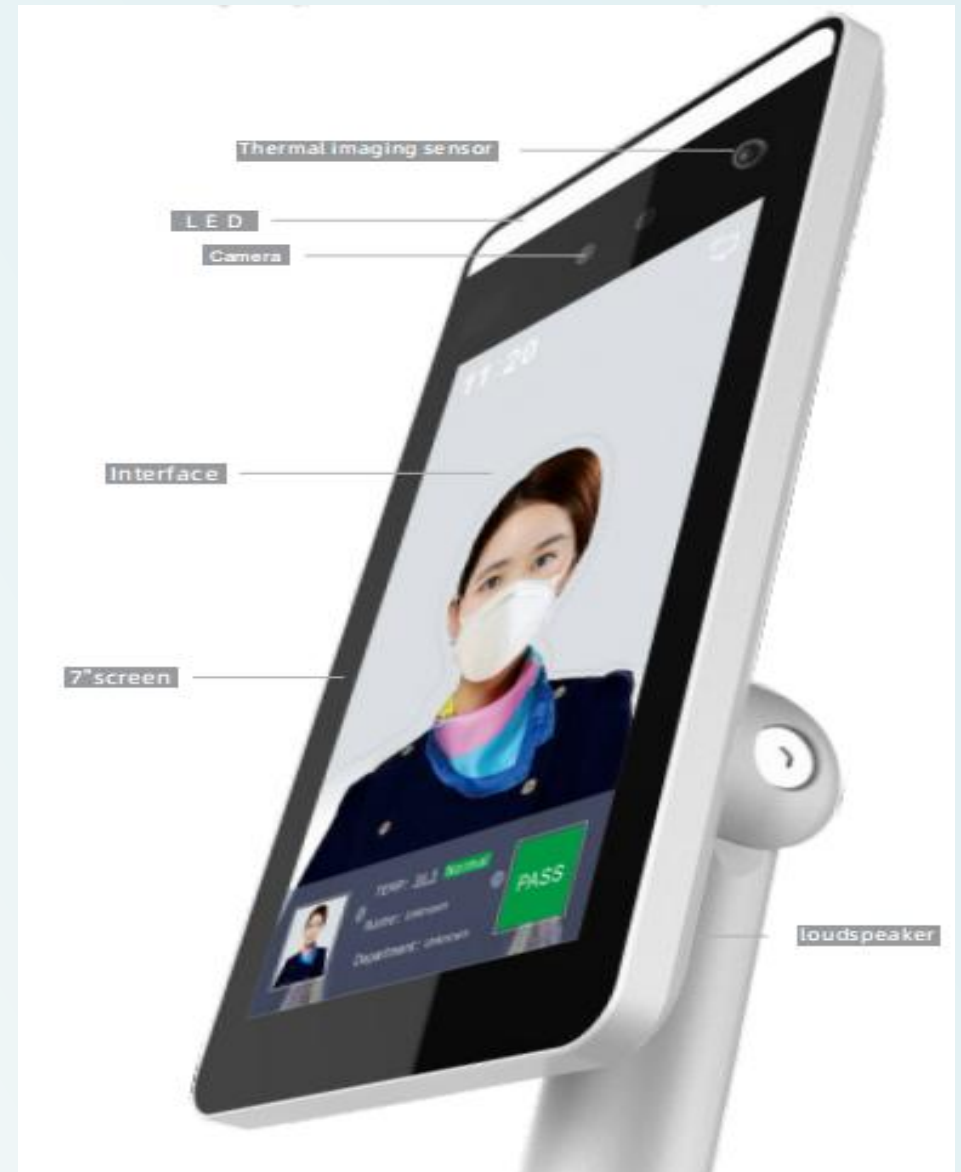
Face recognition distance: 0.5-2.2 m

Temperature error: temperature $\pm 0.3^{\circ}\text{C}$

Human face capacity: 30,000

Identification accuracy: 99.5%

Recognition speed: approx. 200ms



- a. Traditional temperature measuring guns need to be held by humans, and close-range temperature measurement is inefficient and inconvenient.**
- b. AI-Super Precision Face Recognition Machine can avoid physical touching and save manpower.**
- c. It can detect the people without mask and canvas the strangers.**
- d. Automatic recording of human face, which is convenient to check the related entry and exit personnel and make a secondary troubleshooting.**
- e. It will automatically record abnormal temperature information and the related personnel.**
- f. Deep learning algorithm adopted, 30,000 face database and 200ms speed recognition supported, it can realize fast passage.**
- g. It supports data transmission on or off the Internet, which can upload device comparison results and captured photos in real time to the platform to save.**

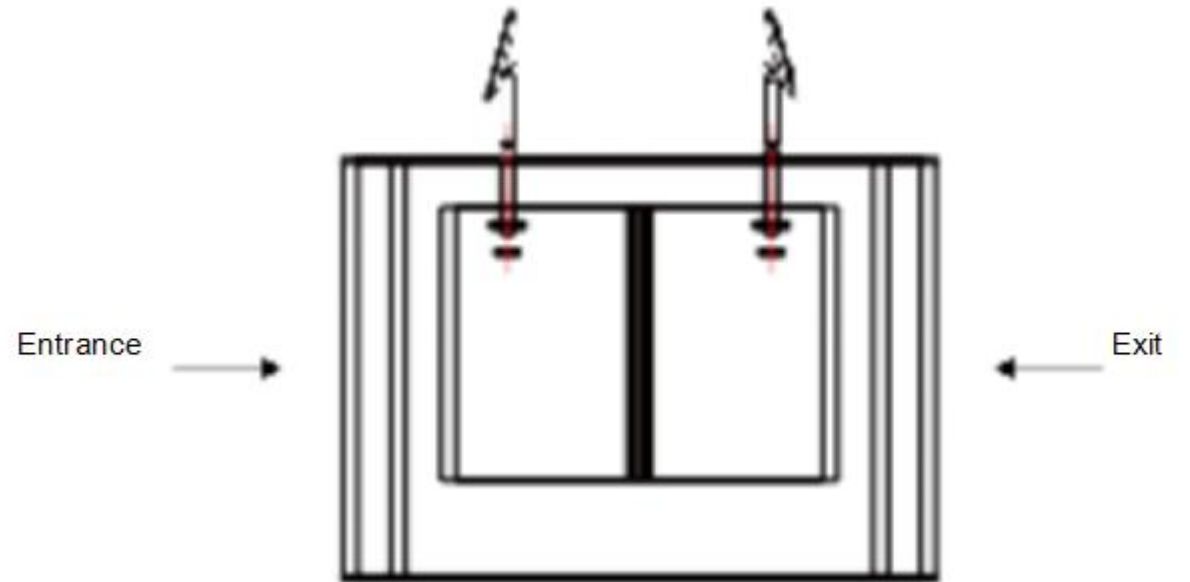
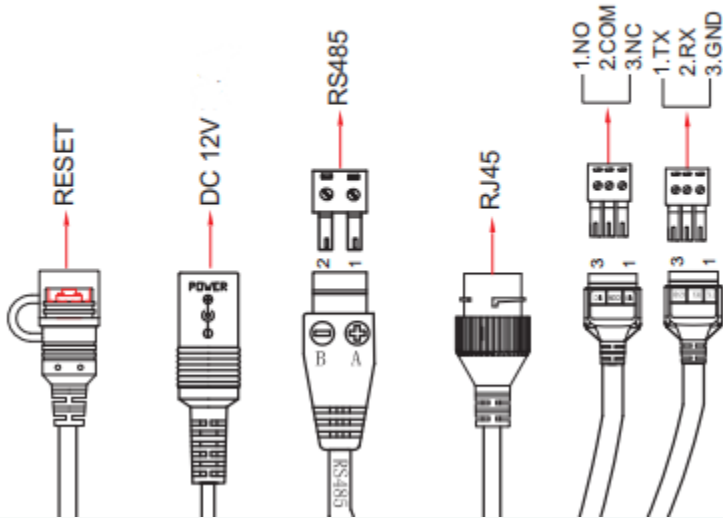
PART TWO

Introduction of installation & test

Equipment Installation

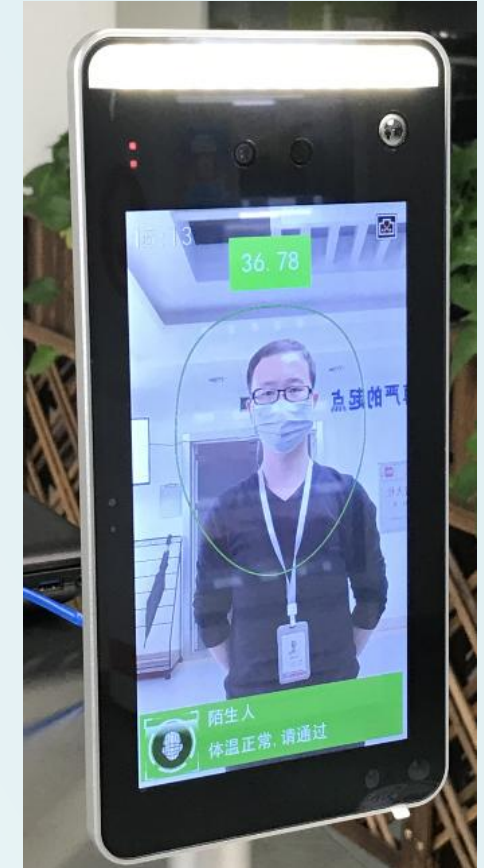
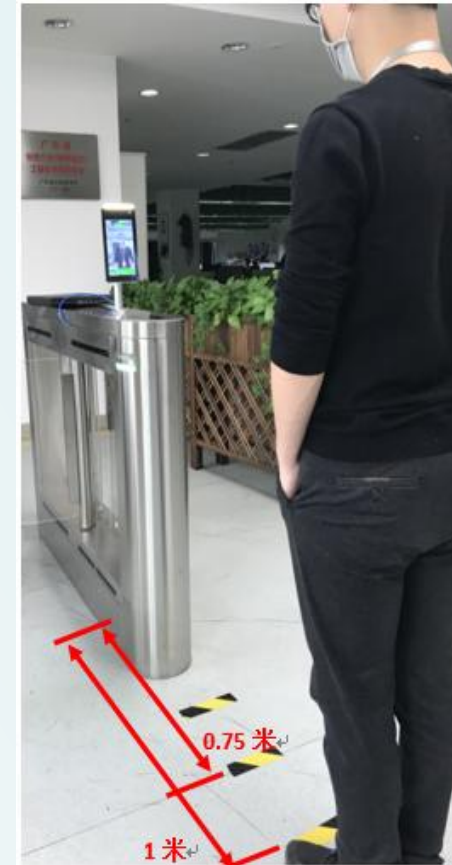
- 1. Open a hole with a diameter of $D = 35\text{mm}$ on the turnstile gate, and the recommended position of hole is on the $1/3$ to $1/4$ of the turnstile gate near to the entrance end ;
- 2. Insert the bracket of the ALL-IN-ONE Face temperature measuring machine into the hole of the turnstile gate, and fix the device nut from the inside of the Turnstile gate ;
- 3. Adjust the device to an appropriate angle (vertical angle of $5^\circ - 15^\circ$) ;

Wire Definition



Requirements

- Distance: 0.5-1.5m, 0.75-1 meters test best
- The human face should be within the frame drawn by the recognition screen, and it is not necessary to fill the area inside the frame. You can adjust the angle according to the actual height.
- After installing and fixing, powered on and warmed up the machine for 20 minutes (maximum) and then tested.
- During testing, fix the terminal as much as possible and don't hold it, because there will be slight shaking in the hand, which will affect the accuracy of temperature detection.
- If you have bangs, please raise the bangs as much as possible. Do not leave hair on the forehead, because the temperature measurement area is the highest value, and the hair may be higher than the forehead.
- During testing and actual usage, the test object and the thermometer need to be far away from the heat source (air conditioner outlet, microwave oven, heater, etc.). If there is a heat source nearby, you must also keep a distance of at least 3 meters from the heat source during installation.

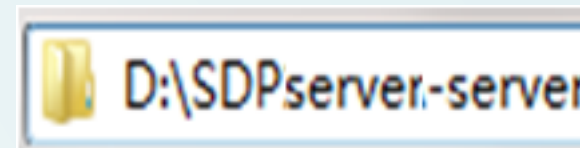


PART THREE

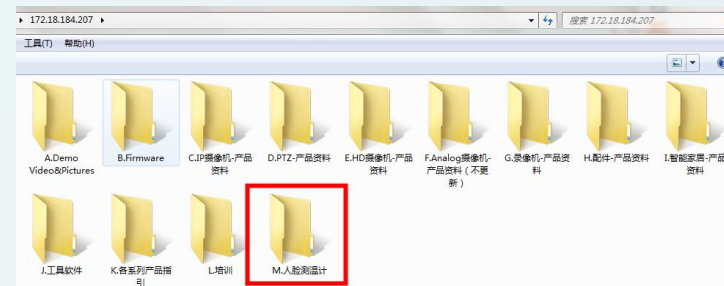
Introduction of the operationg platform

Installation and requirements to the platform

- 64-bit system is required, and it can't be used under a 32-bit system.
- Installation path: Other than C drive, English path is required.
- Browser: The latest version of Chrome or Firefox is recommended.
- If the anti-virus software prompts abnormally, please trust all operations of the software or close the anti-virus software in advance.



共享地址
<http://172.18.184.207>
用户名密码
admin/admin



3**2**

Operation of the platform

Open the client homepage and log in through the browser.

Local login address.

<http://localhost:8989/account/login> or

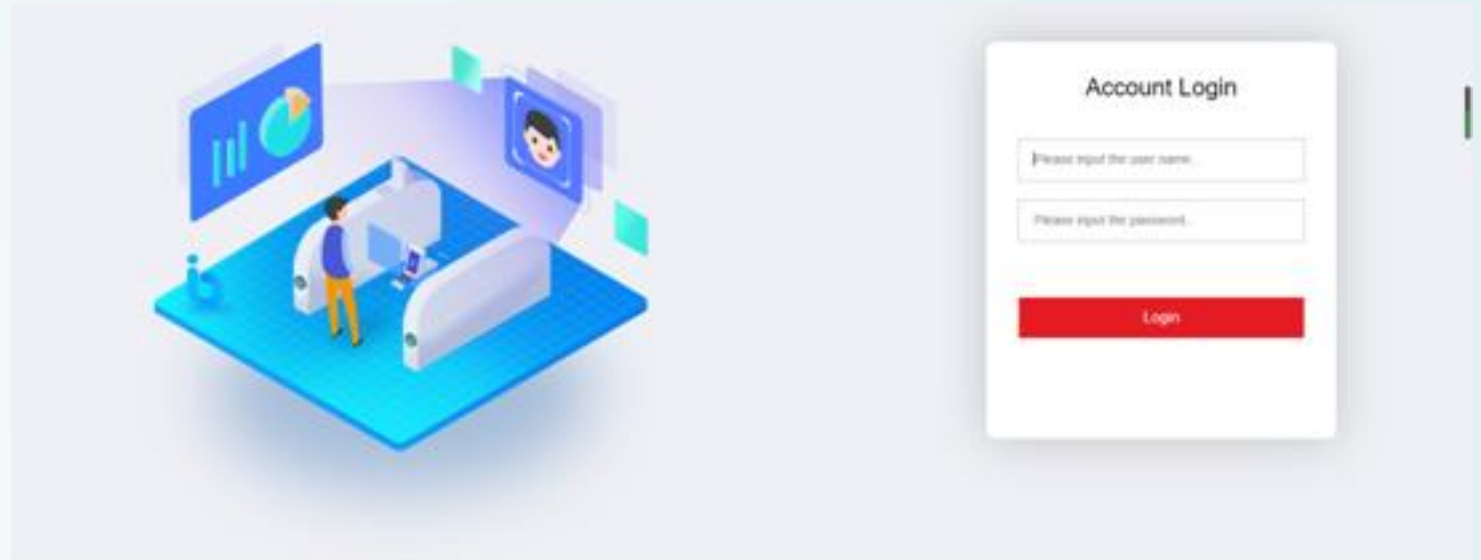
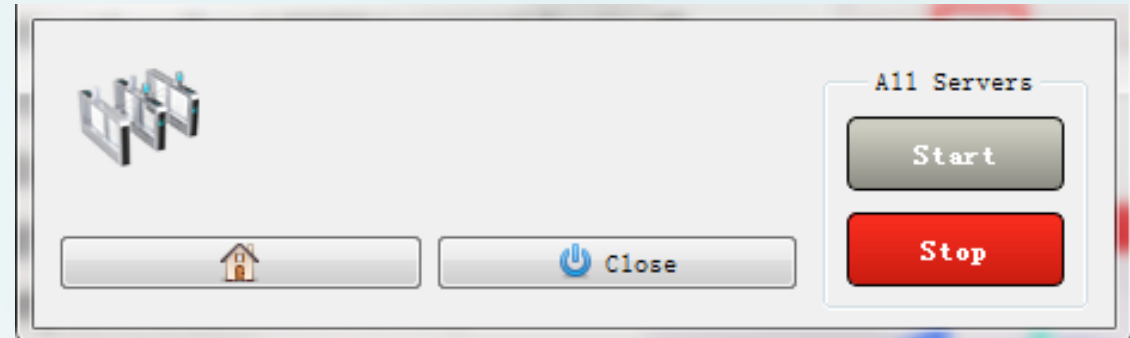
[http://\(nativeIP\):8989](http://(nativeIP):8989).

Login in LAN.

Server IP+ port8989:

<http://172.18.186.55:8989/>

Client ID: root, password: 123456.



Platform operating instructions

Device search and add

The default IP address of the device is 192.168.1.88. Make sure that the computer has this network segment before adding. After the device is added, you can perform other configurations on the device

Device Name	Device Type	SN	IP Address	MAC Address	Port	Pass...	Online St...	State	Op...
7101185847...	FRD	7101185847926	172.16.184.209	0000180FD83D	7080	****	Online	Added	Modify
---	FRD	1231545645865	172.16.184.238	CCD4386A7E95	7080	****	Online	Not s...	Modify
---	FRD	7101498038701	172.16.184.208	0000180FD9C3	7080	****	Online	Not s...	Modify
---	FRD	7101676072505	192.168.1.99	0000180FD856	7080	****	Online	Not s...	Modify
---	FRD	1231545645864	172.16.184.98	887AA3D87345	7080	****	Online	Not s...	Modify
---	FRD	7101629645869	172.16.184.99	0000180FD979	7080	****	Online	Not s...	Modify

Device Name	Device Type	SN	IP Address	MAC Address	Port	State	Operation
7101185847926	FRD	7101185847926	172.16.184.209	0000180FD83D	7080	Online	Configuration Device Gallery Delete

3**4**

Platform operating instructions

Device function configuration

Basic parameters

Configuration

Basic Param Network Config Identification Param Remote Config Version Info Function Param

Device Name 7101185847926

Device Password

Equipment Time(Synchronize with the server)

Cancel Reset Set Up

Device name, password, time

Network Configuration

Configuration

Basic Param Network Config Identification Param Remote Config Version Info Function Param

IP Address 172.18.184.209

Subnet Mask 255.255.248.0

Gateway 172.18.189.189

DNS1 192.168.1.1

DNS2 8.8.8.8

Cancel Reset Set Up

Network address configuration

Identification parameter

Configuration

Basic Param Network Config Identification Param Remote Config Version Info Function Param

Capture the number of faces(1-4) 1

Time interval for identical person recognition(1-5s) 1

Cancel Reset Set Up

Capture interval setting

3

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Platform operating instructions

Device function configuration

Remote configuration

Configuration
✕

Basic Param

Network Config

Identification Param

Remote Config

Version Info

Function Param

Restart Terminal Device
Restart

Upgrade Firmware
Please choose ▼

Volume Setting(0-84)
75

Screen Brightness Setting(45-100)
60

Light Supplementary Settings

Snap report address
:80

Restore Factory Settings
Restart

Restart, upgrade, volume, brightness, snapshot upload

Version Information

Configuration
✕

Basic Param

Network Config

Identification Param

Remote Config

Version Info

Function Param

Model
FRD

firmware Version
FK02GYW_P4_V20.1.13.1

Serial Number
7101185847926

apk version

Estimated version information view

Function parameter

Configuration
✕

Basic Param

Network Config

Identification Param

Remote Config

Version Info

Function Param

Temperature Detection

Alarm Temperature
37.299999

Stranger Can Open

Check Mask

Cancel

Set Up

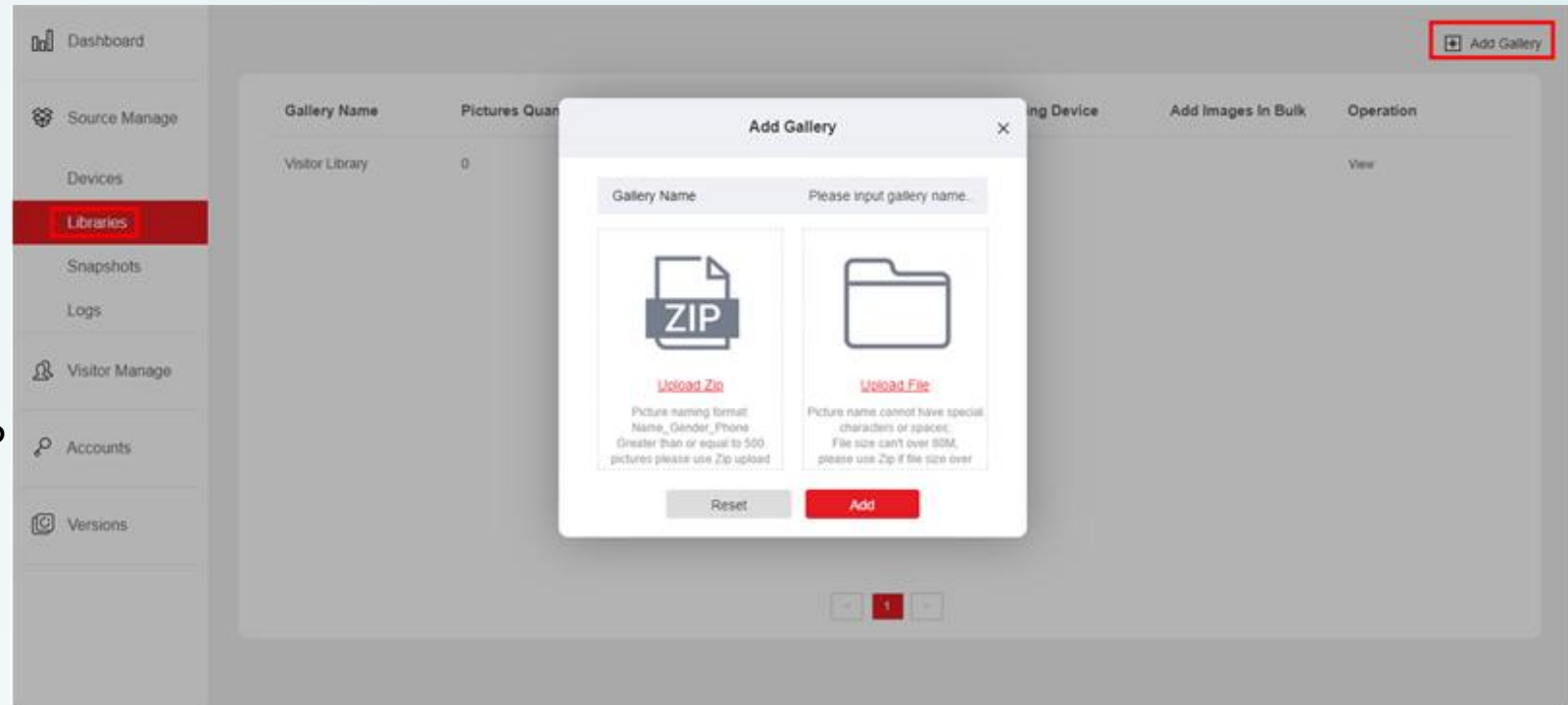
Temperature measurement, alarm temperature, stranger, detection mask

Capture the address, fill in the client's local computer IP address, port 80, and automatically upload all detected face pictures to the server.

3 6 Platform operating instructions

Photo Gallery management

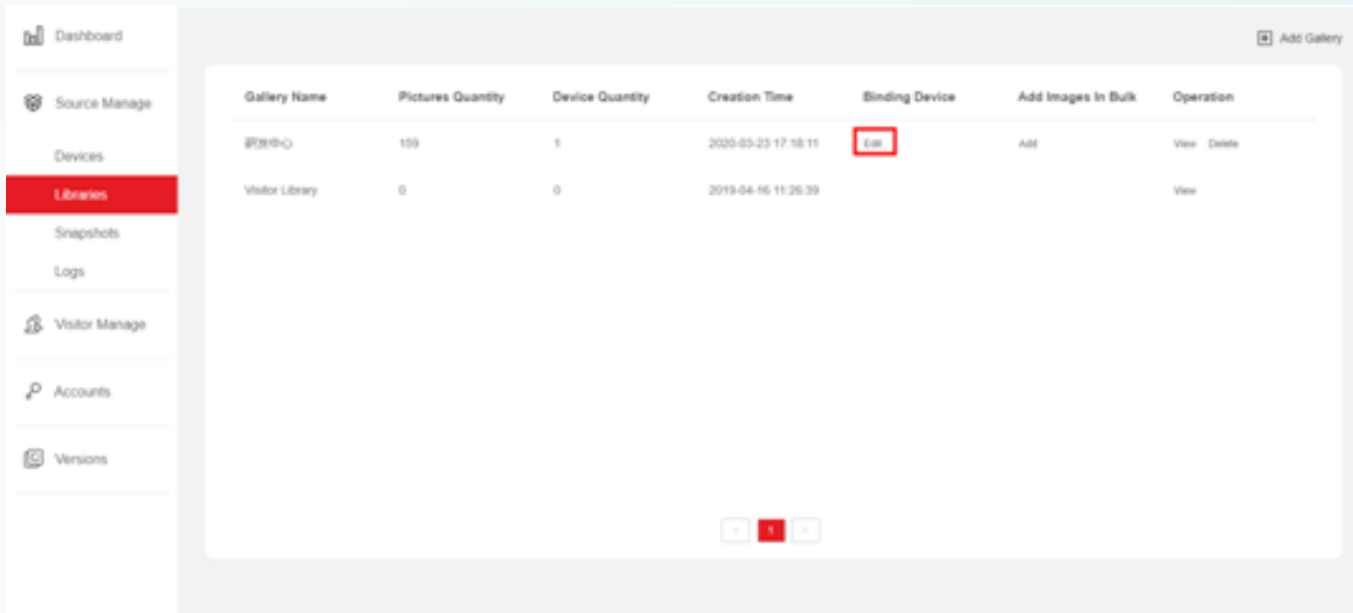
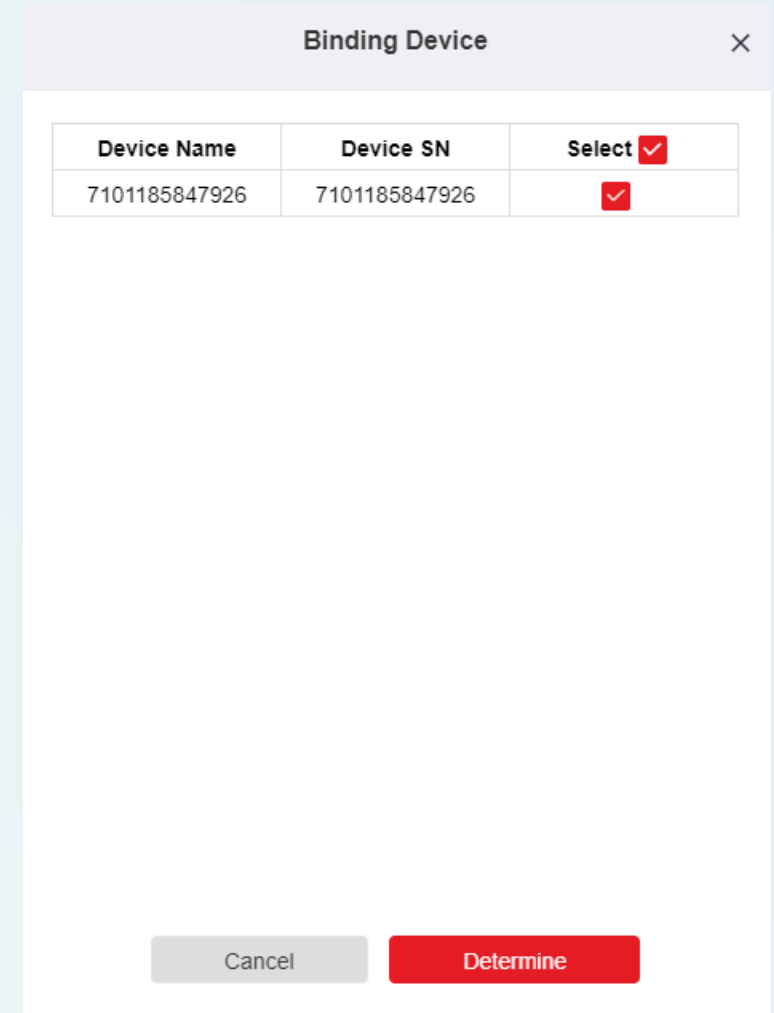
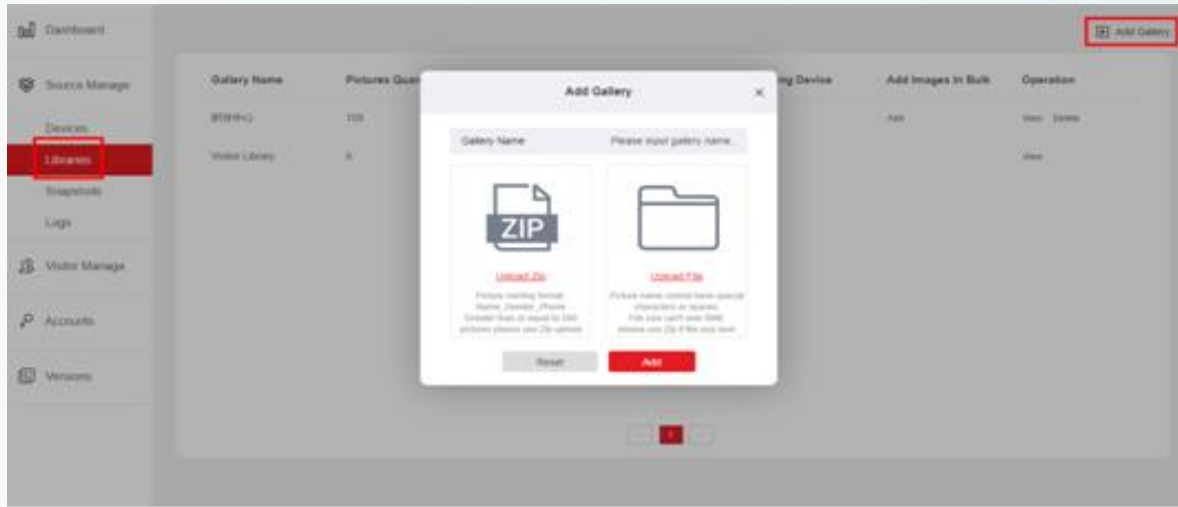
- Create gallery-upload pictures
- Create up to 800 galleries
- There are two types of upload methods:
compressed files and folders
- The compressed package only supports ZIP
format and is less than 500M
- Folder size does not exceed 80M



Note: Turn off your computer's firewall before uploading pictures. It is recommended to use Google Chrome to upload pictures. And please make the photos smaller to increase the photos upload success rate.

3 7 Platform operating instructions

Check photos Below



Platform operating instructions

check photos uploading status

Photos which upload

abnormally, it is

recommended to check

resolution and sharpness,

resolution cannot exceed

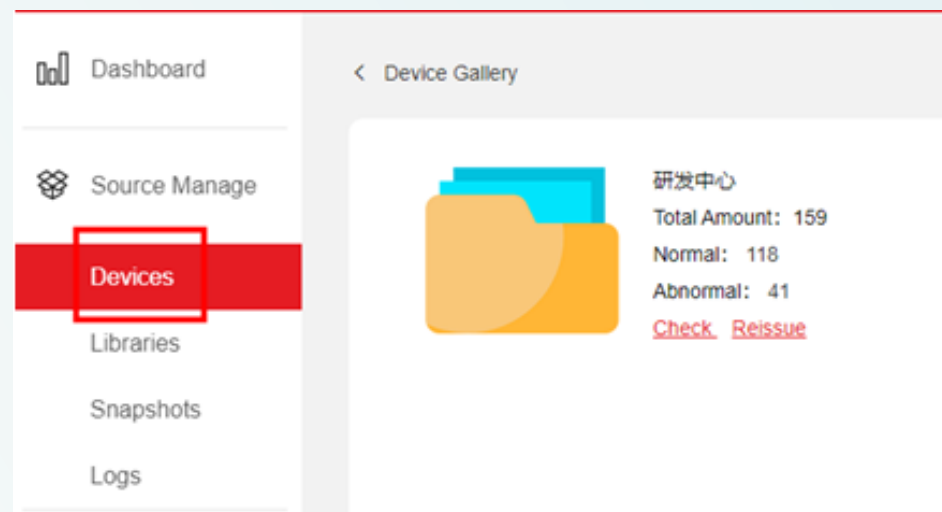
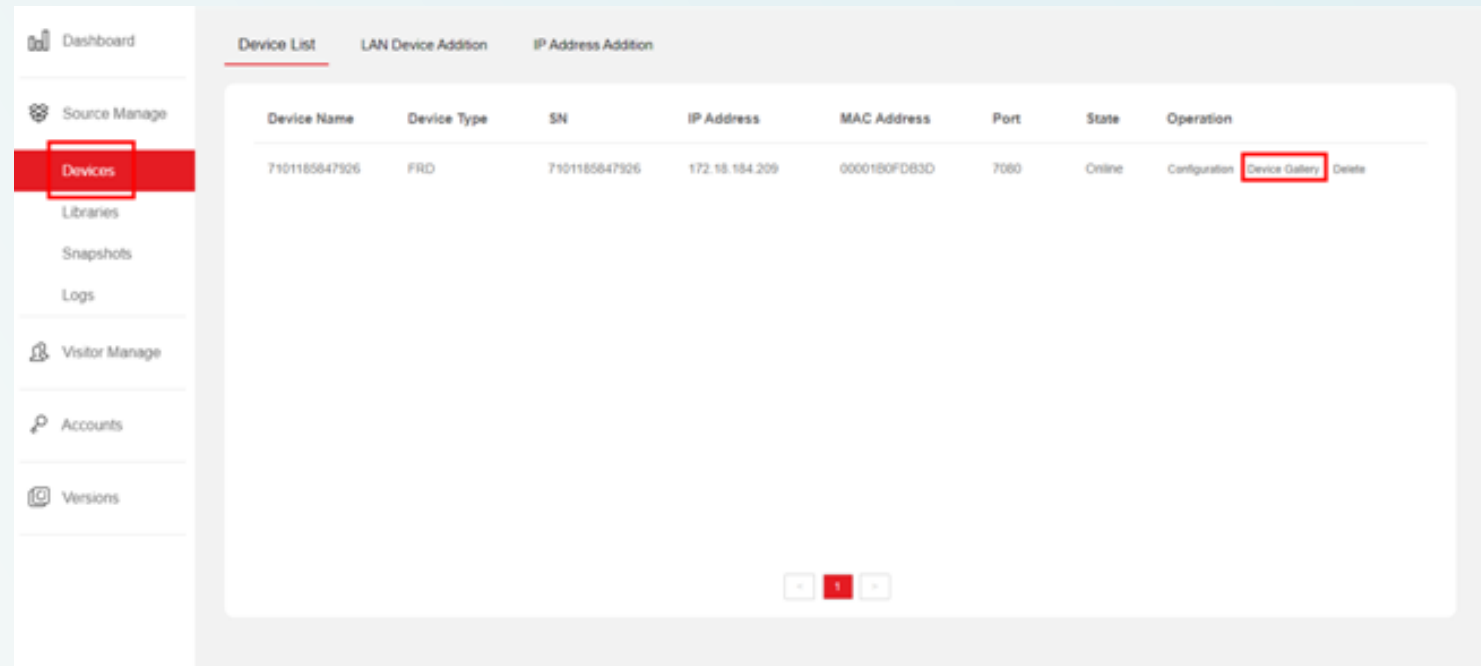
4K, for the photos which

failed to upload, it is

recommended to make

the photo smaller and

upload again.



Snapshot Review

Registered

The screenshot shows the 'Registered' view of the Snapshot Review interface. The left sidebar contains navigation options: Dashboard, Source Manage, Devices, Libraries, **Snapshots**, Logs, Visitor Manage, Accounts, and Versions. The main content area has tabs for 'Registered', 'Not Registered', and 'All', with an 'Export' button. It displays four snapshot cards in a 2x2 grid. Each card includes a photo, a name, gender, time, and location. The data for the four snapshots is as follows:

Row	Column	Name	Gender	Time	Location
1	1	张大明	女	2020-03-19 17:20:21	研发中心
1	2	张丽娟	女	2020-03-19 17:24:21	研发中心
2	1	张丽娟	女	2020-03-19 15:56:31	研发中心
2	2	张丽娟	女	2020-03-19 15:56:21	研发中心

Unregistered

The screenshot shows the 'Unregistered' view of the Snapshot Review interface. The left sidebar is identical to the 'Registered' view. The main content area has tabs for 'Registered', 'Not Registered', and 'All', with an 'Export' button. It displays four snapshot cards in a 2x2 grid. Each card includes a photo, a time, and a red '上传人脸' (Upload Face) button. The data for the four snapshots is as follows:

Row	Column	Time
1	1	2020-03-19 17:34:24
1	2	2020-03-19 17:34:19
2	1	2020-03-19 17:25:31
2	2	2020-03-19 17:25:06

3 10 Platform operating instructions

Visitor registration

Visitors who need temporary entry and exit can register as visitors, and the collection method of portraits can be uploaded via taking photos and uploaded locally. Set the allowed time and the corresponding device according to the actual situation, and then click Add.

The screenshot displays a web application interface for visitor registration. On the left is a sidebar menu with the following items: Dashboard, Source Manage, Visitor Manage (highlighted in red), Register (highlighted in red), Visitors, Accounts, and Versions. The main content area is divided into three sections:

- Real-Time Picture:** Contains a camera icon, a "Photo Upload" button, a "Local Upload" button, and an "ID card scanning" button. A red error message below reads: "The ID Scan control is not available, the controls and drivers may not be installed correctly, or the controls are not enabled."
- Information Registration:** Includes fields for Name, Gender (radio buttons for Male and Female, with Female selected), ID Type (dropdown menu showing "Please choose"), ID Number, Company Name, Mobile Phone, Respondent, and Visiting Reason.
- Device Authorization:** Includes fields for Start Time (2020-03-23 17:26:02), End Time (2020-03-24 17:26:02), and Select Device (button labeled "Click to select device").

At the bottom right of the form are "Reset" and "Add" buttons.

PART FOUR

Common problem introduction



4 1 Installation & Testing Problem:

Questions :

Q: It needs other server to support when using this device?

A: Need to install intelligent terminal platform software on PC.

Q: What's the speed of temperature measuring?

A: The people who is registered can be measured no more than 2 seconds.

Q: Abnormal temperature always showing 35.8°

A: 1) Firstly need to check the firmware version,

if version is below V20.1.12.2 pls contact technical to upgrade the device.

2) If confirm the firmware version is the latest one,

need to disconnect the power and power on again for 5mins then device can be used normally.

Platform problem

common problem:

Question: The image delivery fails which may cause the device not working properly, you need to restart the device.

Answer:

- 1) If the version is lower than V20.1.12.2, please contact our technicians to upgrade the device program.
- 2) We need to use pre-processing software tools to process the pictures before importing them to the device. The picture pre-processing software tools can be obtained by contacting the relevant sales or technical person.
- 3) Enter the computer control panel and turn off the computer's network firewall.

Question: The function parameters are blank in the web client device configuration.

Answer: You need to confirm that you are using the latest version of Google or Firefox browser, and clear the browser Caching, then reopen the web client to enter.

Problem: The web client clicks the device configuration and fails to get the data.

Answer:

- 1) Removed the network cable from the device, delete the device on the smart terminal platform, and then press the hard reset button to restore the factory. Then you can search and add the device again on the smart terminal platform.
- 2) If the data acquisition failure still occurs after trying the operation of step 1), after deleting the device on the smart terminal platform, reinstall the smart terminal platform and search and add the temperature measuring device again.

FAQ

Problem: The device scanned the human face but don't any response, cannot recognize the face, and cannot detect the temperature.

Answer: Check the firmware version of the device. If the version is lower than V20.1.12.2, please contact our technicians to upgrade the device firmware.

Question: The device keeps prompting "please aim at the face frame" when scanning the face, the temperature is not displayed.

Answer: Check the program version of the device. If the version is lower than V20.1.12.2, please contact our technicians to upgrade the device program.

Problem: There is no sound from the device.

Answer: Go to the computer site of intelligent management terminal, enter the setting interface: Device Management-Configuration-Remote Configuration, and check if the volume is setted to a low value. It is recommended to set it to 75 (factory default). If you confirm that the parameter has a setting of 75 , also tried to press the hard-reset button on the device's waterproof cables to restore the device, but there is still no sound, then the device has speaker failure, and needs to be send to us for RMA.

THANK YOU FOR LISTENING

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