

FRT100 FACE RECOGNITION TERMINAL

HARDWARE INSTRUCTION MANUAL

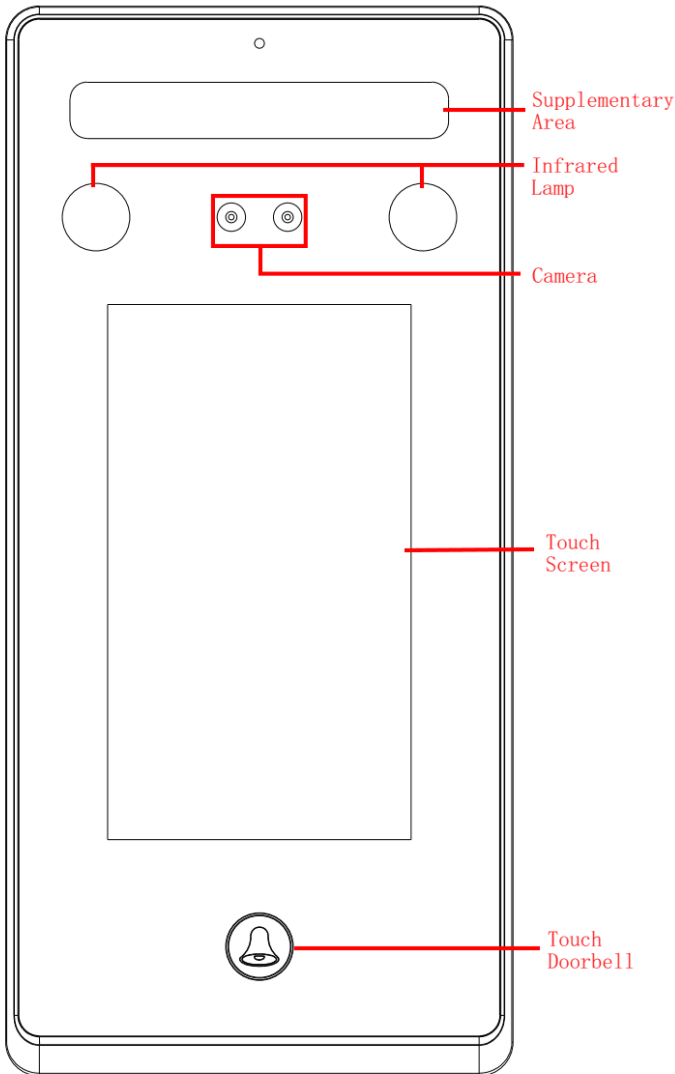
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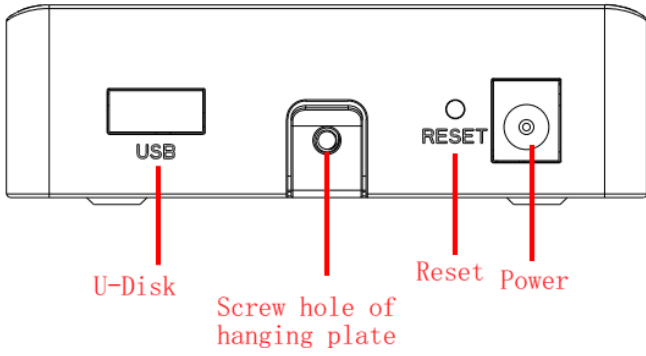
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Chapter 1 A basic introduction to machines

I Product appearance description

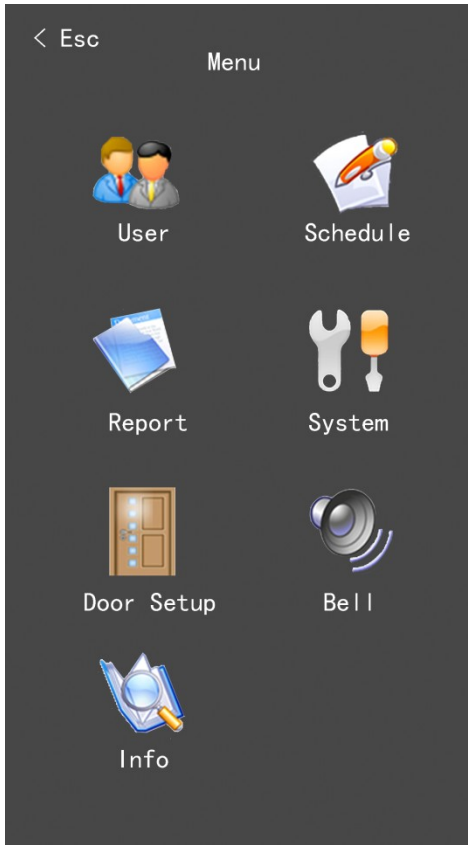


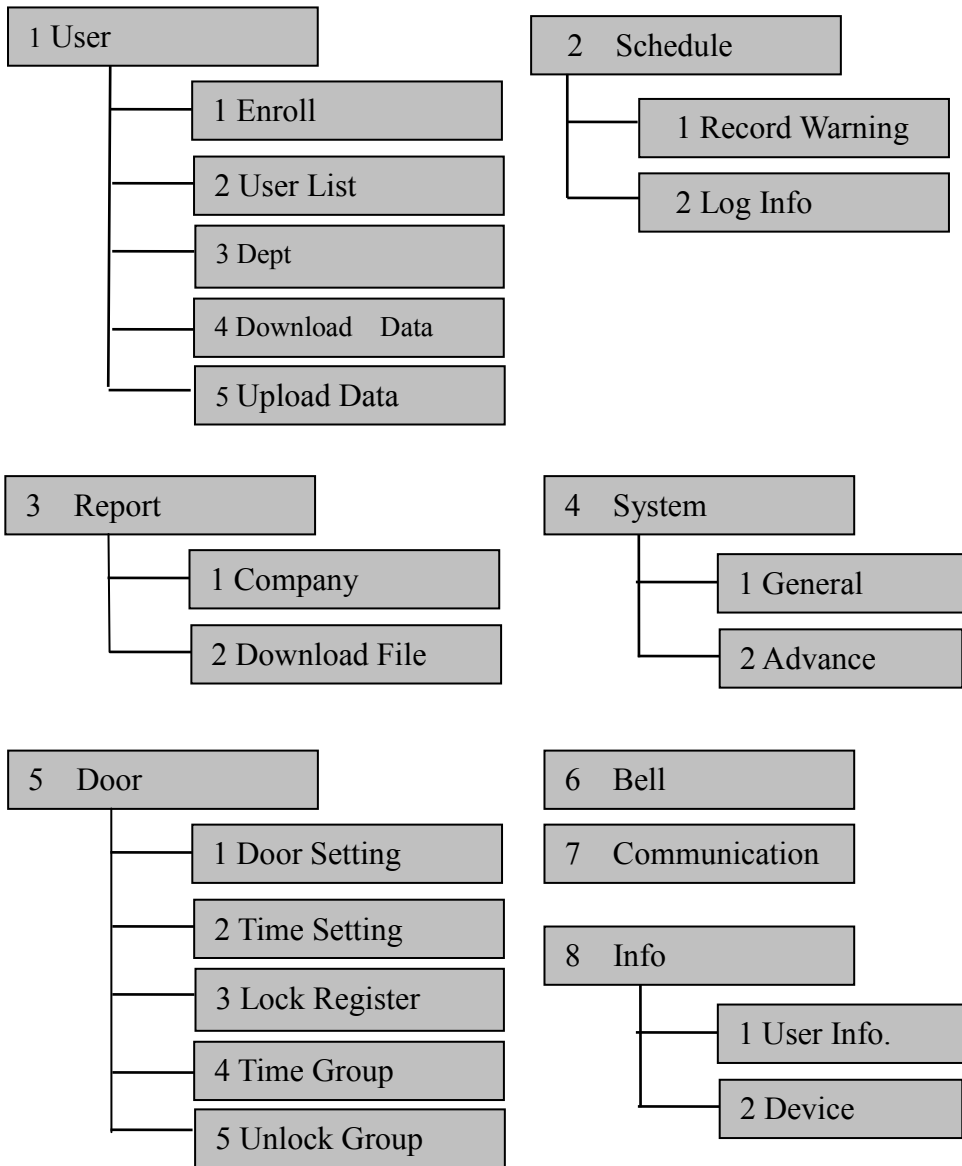


II Main parameter

Seq.	Item	Index
1	Working power supply	DC: voltage 12V + 10% current < 350Ma (DC head is dc5.5mm universal standard interface)
2	Outer size	190(L) x90(W) x 26(D) mm
3	Weight	0.5kg
4	working temperature	-20°C—50°C
5	Humidity	10%—85%
6	Storage capacity	1000000 records, 3000 faces, 3000 fingerprints and 3000 passwords. (Card function is optional with additional charge)
7	Speed of recognition	≤0.5S
8	FRR	<0.01%
9	FAR	<0.001%
10	Communication mode	TCP/IP & U-disk Via U-disk it can send face/palmprint/password data to other devices
11	Wiegand signal	Wiegand output, can be used as a reader
12	Keyboard and display	4.3 inch color screen and touch button

III Menu introduction





Chapter 2 Instructions of the machine

Under attendance status, press the  key (serrated wheel shape)

- (1) **Once the manager has not been registered, directly into the menu;**
- (2) **The registered manager can enter the menu after successful verification.**

I Register

There are four registering modes in this attendance machine: face, palm print, password and card. Each user can register 1 face, 1 palm print, 1 password and 1 card(optional).

The administrator registration is to authorize the administrator to manage the operation. The registration method is the same as ordinary user registration, but the user privilege is selected as the administrator. (Path: User--User list--Select the name of the user you wish to authorize as administrator--Choose Admin and select as Admin)

Note: The function of the induction card is non standard function, depending on its specific type.

1.1 Register

1.1.1 Facial registration

User → Enroll → Input work ID, name → Choose Reg. face
 → Try to fix you face into the frame and slightly turn around → Enroll → Success of enrollment

When you register your face, you need to place your face straight and within the frame of the screen, and the machine will automatically recognize the current face. After entries of different angle, the face will be saved to the device.

1.1.2 Palm print registration

User → Enroll → Input work ID, name → Choose Reg. Palm → Try to fix your palm into the frame until all upper 12 square box filled → Success of enrollment

1.1.3 Password registration

User → Enroll → Input work ID, name → Choose Reg. Pwd → Input password
 → OK → Enter the password again → Success of enrollment

The password length is 1-10 digits, and a user registers only one password.

1.1.4 Induction card registration

User → Enroll → Input work ID, name → Choose Reg. Card → Swipe card
→ Success of enrollment

1.2 User List

User → User List → Choice of user name → Click to choose → Modify or delete user
→ OK .

User List can brows, edit, backup or delete the data of registered users, re-enroll face, and also modify user privilege.

1.3 Department

User → Dept → Click to edit → OK

Department settings for editing the name of the department, up to 12 departments.

1.4 Download Data

User → Down. Data → Insert USB drive → Download completed → OK .

Note: Here the data downloaded is user registration data.

1.5 Query entry and exit record

User → Up. Data → Insert USB drive → Upload completed → OK

Note: Here the data uploaded is user registration data.

II Schedule

2.1 Record Warning

It is used to set up the number of attendance records before it reaches the limit of the memory capacity of the attendance machine. When it's prompted, please use the software to collect the management records as soon as possible, and delete the data on the attendance machine to ensure that the new data can be stored. **Set range 0-1000 pieces**

Schedule → Rec. Warnings → OK

2.1.1 Log Warning

Schedule → Rec. Warnings → Log Warning → Set number (range 0-1000) → OK

2.1.2 Log Interval

The duplicate confirmation time is used to set the interval time of two verification, the unit is minutes, after setting, the attendance data in the interval time will not all be recorded, and prompt “It has signed in” simultaneously.

Schedule → Log Interval → Set interval time (1-60 seconds) → OK

2.1.3 Save Photo

It's used together with “Door---Open any face”, which means no need to register and for public area use, just temperature measuring, when it's passed, it's unlocked and once you click to choose Yes and the person's photo will be saved same time.

Schedule → Save Photo → Select Yes or No → OK

2.2 Log Info

It's for viewing attendance records in the device. Enter the staff ID to view all records within the selected time range.

You can view all records within the time range selected by staffs by clicking on the record without inputting the ID.

Schedule → Log Info → Input any ID or not input → Set time range → Click Log Info

III Report

This module is to input company name and download file.

3.1 Company

Report → Company → Input company name → OK

3.2 Download File

It's for download attendance report in TXT file.

Report → Company → Dwnld File → Insert USB drive → OK

IV System

4.1 General setting

4.1.1 Time

Time setting for the device and precise to second.

System → General → Time → Set time → OK

4.1.2 Time Zone

System → General → Time zone → Set time zone → OK

4.1.3 Use Report

It's to display report module on main screen or not.

System → General → Use report → Select Yes or No → OK

4.1.4 Wear Mask

If wearing mask is not required, please set it a NO.

System → General → Wear mask → Select Yes or No → OK

4.1.5 Use Temperature

Choose to do temperature measuring or not.

System → General → Use TEMP → Select Yes or No → OK

4.1.6 Temperature Type

Choose to select temperature type as Celsius or Fahrenheit.

System → General → TEMP. Type → Select Celsius or Fahrenheit → OK

4.1.7 Language

There are six types of languages: Simplified Chinese, traditional Chinese, English, Spanish, Italian and French.

System → General → Language → Select one language → OK

4.1.8 Volume

Choose to select volume from 1-10.

System → General → Volume → Select from 1-10 → OK

4.1.9 Verification distance

Choose to select verification distance from 1-5 meters

System → General → Verification distance → Select from 1-5M → OK

4.1.10 Result Time

Choose to select verification result interval time range from 1-30 seconds.

System → General → Result Time → Select from 1-30 → OK

4.1.11 Screen Idle

Choose to select screen idle seconds from 60-1440 seconds.

System → General → Screen Idle → Select from 60-1440 → OK

4.2 Advance

4.2.1 Max Administrator quantity

System → Advance → Max Admin → Select from 1-5 → OK

4.2.2 Verify Mode

In total, there are 7 verification modes can be chosen: Face/Palm/Password, Face +password, Password + Face, Palm + Password, Password + Palm, Palm + Face, Face + Confirm (There will be confirm interface to click after face verification).

System → Advance → Verify Mode → Select among 7 options → OK

4.2.3 Card Type

System → Advance → Card Type → Select one type → OK

4.2.4 1:N Identify

Threshold setting, the great for the value, the more precision is.

System → Advance → 1:N Identify → Input one digit (1-6) → OK

4.2.5 Delete all users

System → Advance → Delete all users → Prompt to confirm or not → OK

4.2.6 Delete all logs

System → Advance → Delete all logs → Prompt to confirm or not → OK

4.2.7 Bio-assay

It means vivo detection or liveness detection.

System → Advance → Bio-Assay → Select Yes or No → OK

4.2.8 Testing

FRT100A: For body temperature calibration, it's only recommend to use for the first person who use this device and please make sure this person's body temperature is close to 36.50C. For **FRT100B**, there is no need for such body temperature calibration operation.

System → Advance → Testing → Select Testing for face or body temperature calibration → OK

4.2.9 Default

Restore to ex-works default setting.

System → Advance → Default → Reset to default setting → OK

4.2.10 Firmware upload

Upload firmware via USB drive.

System → Advance → Firmware Upd. → Insert USB drive first → OK

V Door

5.1 Door

It's for access control setting.

5.1.1 Wiegand Output

Door → Door → Wiegand output → Select user ID or card number → OK

5.1.2 Wiegand bit

Door → Door → Wiegand bit → Select 26 or 34 or 42 bit → OK

5.1.3 Lock Delay

It is used to set how long the door can be closed after unlock verification. The parameter range is set to 1-255, and the unit is second.

Door → Door → Lock Delay → Select Yes or No → OK

5.1.4 Open any face

It is used for public area and any face can pass without face registration.

Door → Door → Open any face → Select -255 → OK

5.1.5 Alarm Delay

The door magnetic delay time range is 1-60 seconds. If the door magnetic type is set to NC type and the door magnetic delay is set to 5 seconds, an alarm signal will be sent if the door magnetic delay is not closed after 5 seconds.

Door → Door → Alarm delay → Select -255 → OK

5.1.6 Match fail alarm

Door → Door → Match fail alarm → Select Yes or No → OK

5.1.7 Alarm

Door → Door → Alarm → Select Yes or No → OK

5.1.8 Sensor Mode

The door magnetic type is divided into three types: NG, Normal Closed (NC) and Normal Open(NO). The factory default value is NG.

Door → Door → Sensor Mode → Select NG/NC/NO → OK

5.1.9 Sensor Delay

The door magnetic delay time range is 1-200 seconds. If the door magnetic type is set to NC type and the door magnetic delay is set to 5 seconds, an alarm signal will be sent if the door magnetic delay is not closed after 5 seconds.

Door → Door → Sensor Delay → Select 1-200 → OK

5.1.10 G. Mode

There are two general modes: Yes and No. the factory default value is No.

Door → Door → Alarm → Select Yes or No → OK

5.1.11 Users

Meanwhile, the range of required user confirmation number is 1-5, and the factory default value is 1.

Door → Door → Users → Select 1-5 → OK

5.2 Time Setting

It's used to set different time period attributes and define different time periods.

5.3 Lock Register

It's for user access control management: To set the group or time period that a user is allowed to pass.

5.4 Time Group

It is used to set different time periods in different groups. It is set according to the time periods in the time section definition item. For example, set 1 group to 1 time section.

5.5 Unlock Group

It is used to set that members of different groups and groups can unlock only when they are combined together

VI Bell

Click any serial number on the screen, set the time for the device to ring, and then click OK. Finally, click the small box at the end of the serial number, and a green √ will appear after success, which means the setting is successful.

VII Communication

Communication ---- Device No: Device number(when multiple devices communicate at the same time, no duplicate machine number is allowed)

Communication ---- Port No: Defaulted as 5005

Communication ---- Net password: Defaulted as none.

Communication ---- Mode: Local or internet.

Communication ---- Server Req: Require server or not.

Communication ---- Server: Server defaulted IP address.

Communication ---- Ethenet: The IP address of the device needs to be in the same network segment as the computer IP address.

DHCP: The device link wireless router assigns IP automatically (enter the device IP manually when this function is turned off)

Net mask, default gateway, port number, DNS server IP address, Mac address, enter according to the actual network environment.

Communication ---- Wifi: Not available, it's required to order separately.

VIII Info.

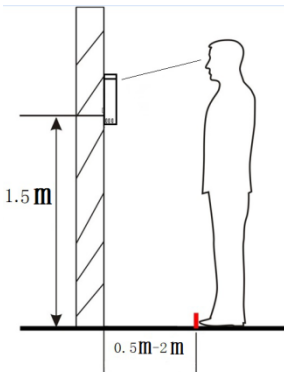
8.1 User Info: Display the quantity of existing administrators and total quantity of existing users/faces/passwords/palm prints/log/all logs.

8.2 Device Information: Used to display device manufacturer, web site, Serial Number, released date, model, firmware version, engine version, etc.

Chapter 3 Enclosure

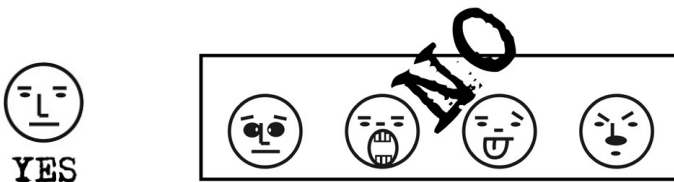
Remark for registering face

Recommended standing position (see the figure below):



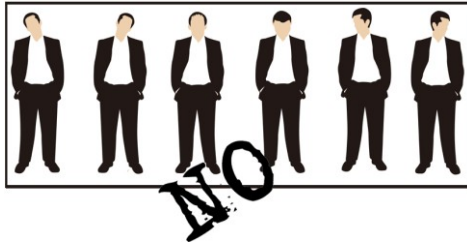
The distance between the recommended personnel and the device is 0.5m-2m (applicable to the height range of 1.55m-1.85m), which can be adjusted according to the effect of the face image acquired by the device. When the face image is lighter, it can be moved back appropriately; when the face image is darker, it can be moved forward appropriately.

Recommended facial expressions and several facial expressions that affect the effect of use:

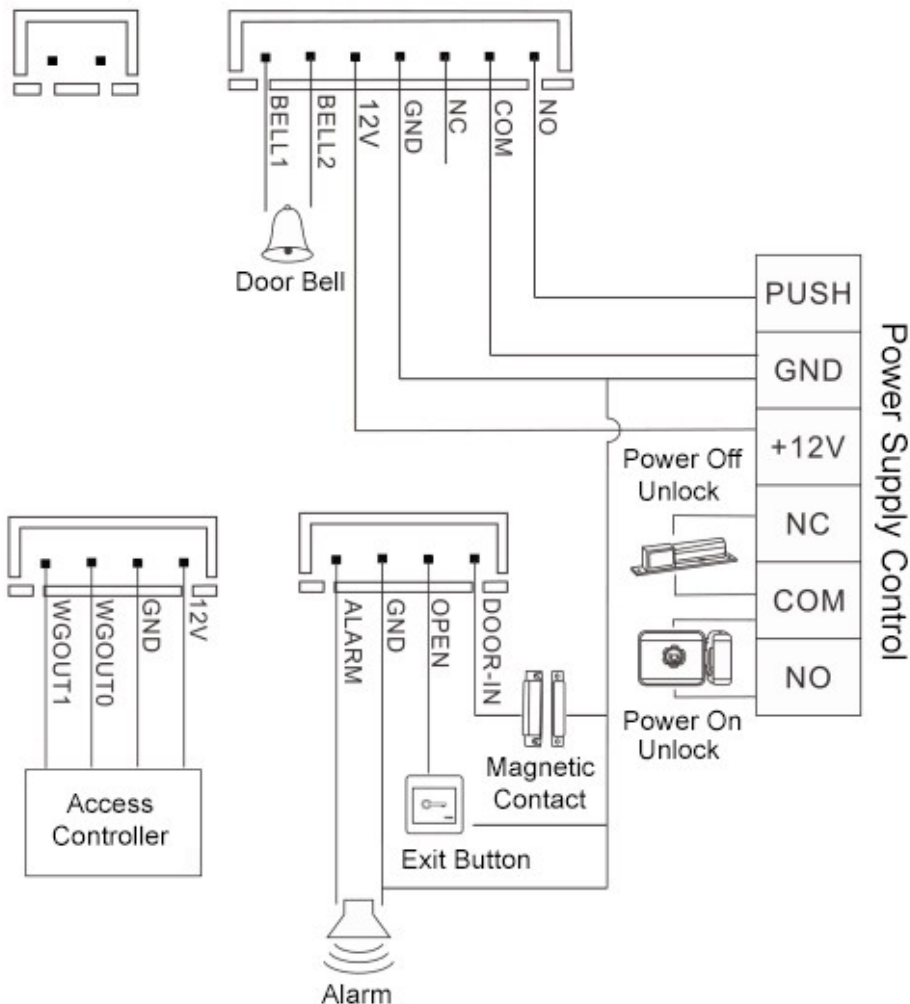


Recommended standing posture of personnel and several standing postures that affect the use effect:

Note: please keep natural facial expression and standing posture during registration and use.



►► Wiring diagram of hardware access connection



Note: This wiring diagram for professional access control power supply. It is recommended to use with this power supply.