

**X102 FACE RECOGNITION
TERMINAL
HARDWARE INSTRUCTION
MANUAL**

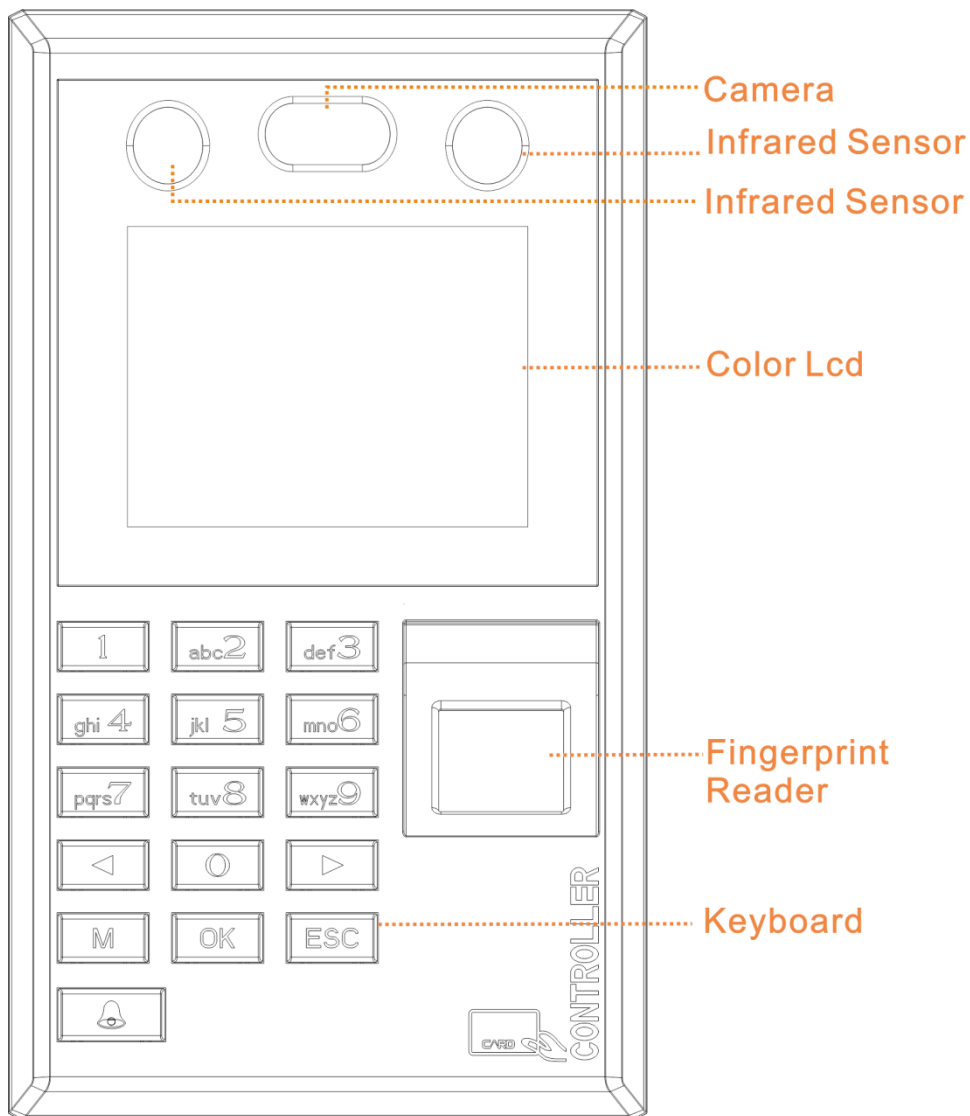
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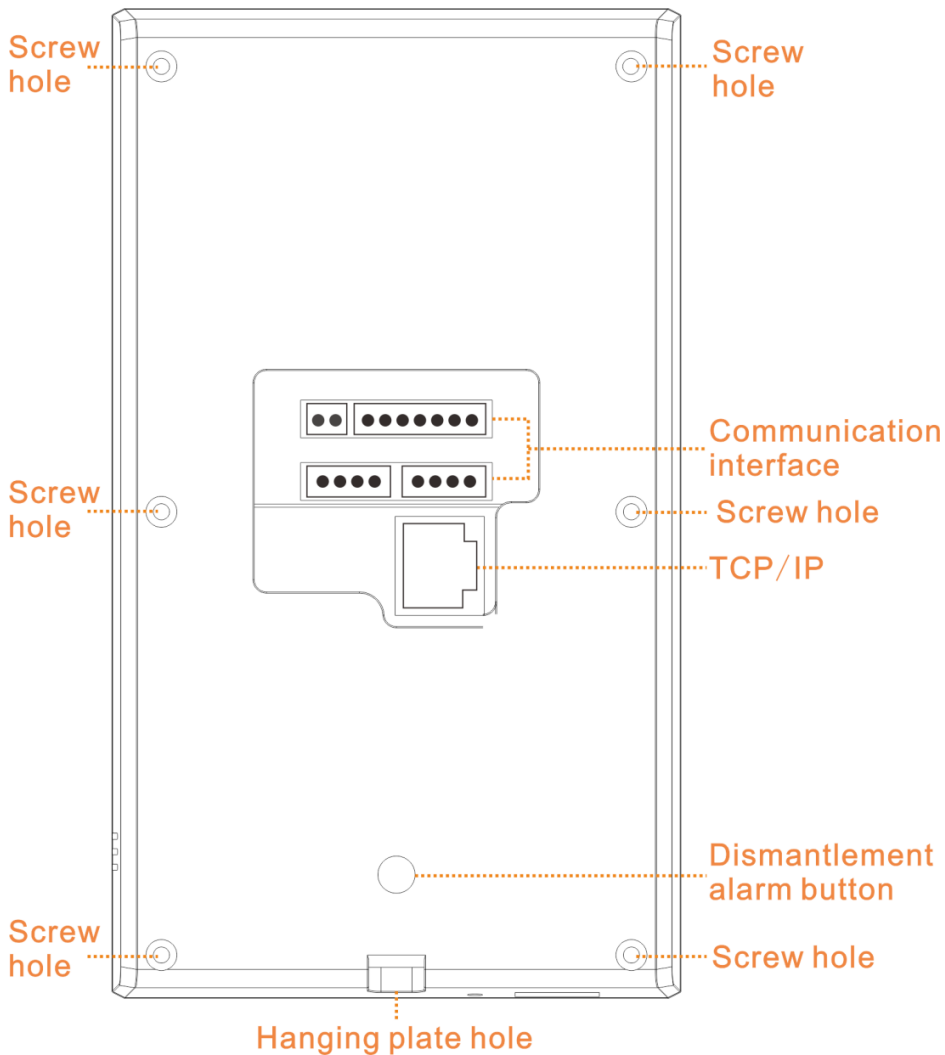
Chapter 1 A basic introduction to machines	4
I Product appearance description	4
II Main parameter	7
III Menu introduction	8
Chapter 2 Instructions of the machine	10
1.1 Register	10
1.1.1 Facial registration	10
1.1.2 Fingerprint registration.....	10
1.1.3 Password registration	10
1.1.4 Induction card registration	11
1.2 View User	11
1.3 Delete User	11
1.4 Query entry and exit record	11
II Set communication	11
2.1 Machine ID	11
2.2 Baud Rate	11
2.3 IP Address	11
III Set time	12
IV Device	12
4.1 General setting	12
4.1.1 Language.....	12
4.1.2 Date Format.....	12
4.1.3 Volume.....	12
4.1.4 Auto OFF	12
4.1.5 Screen Saver	13
4.1.6 Wiegand.....	13
4.2 Logs.....	13
4.2.1 Arec WRN (Administrator record warning)	13
4.2.2 URec WRN (User Record Warning).....	13
4.2.3 Re-verify	13
4.3 Advanced.....	13
4.3.2 Delete ALL REG	14
4.3.3 Delete ALL data	14
4.3.4 Default Setting	14

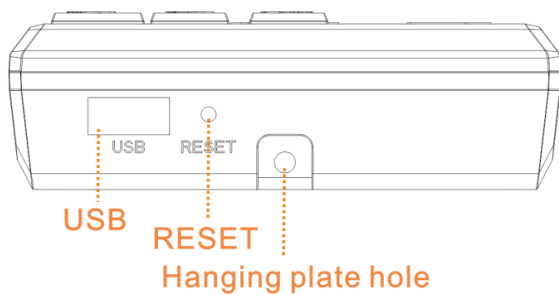
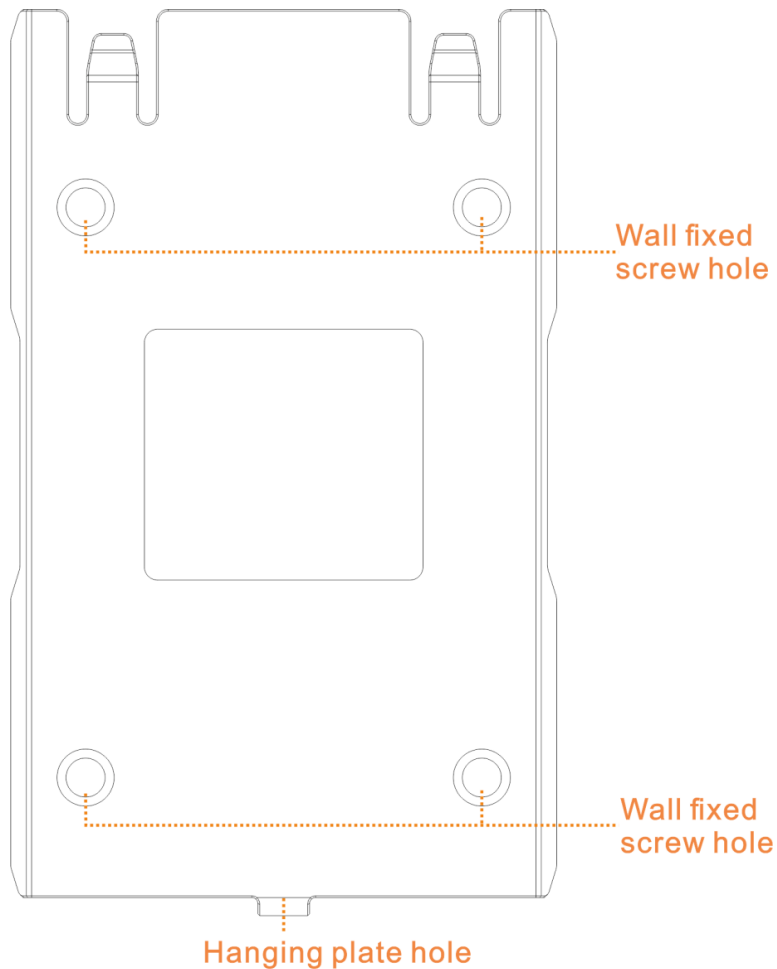
4.4 Lock Control	14
4.4.1 Time Setting	14
4.4.2 Lock Register	14
4.4.3 Time Group Set	14
4.4.4 Unlock Group	14
4.4.5 Unlock Time Delay	14
4.4.6 Lock Type Set	15
4.4.7 Access Mode	15
V、 USB disk.....	15
5.1 All Rec. (Download all attendance data)	15
5.2 Enr. Data (Download enrolled user data)	15
5.3 Load Data (Upload user data)	15
VI System Info.....	15
Chapter 3 Enclosure.....	17
Illustration of Correct Fingerprint Pressing	17
Wrong Pressing Method	17
▶▶Wiring diagram of entrance guard.....	18

Chapter 1 A basic introduction to machines

I Product appearance description



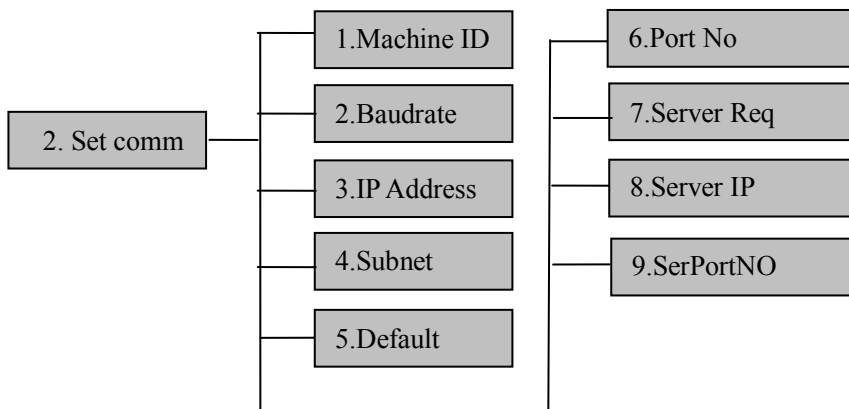
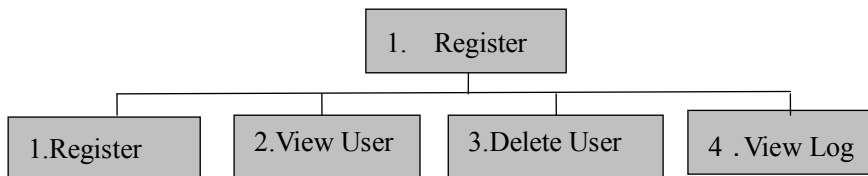
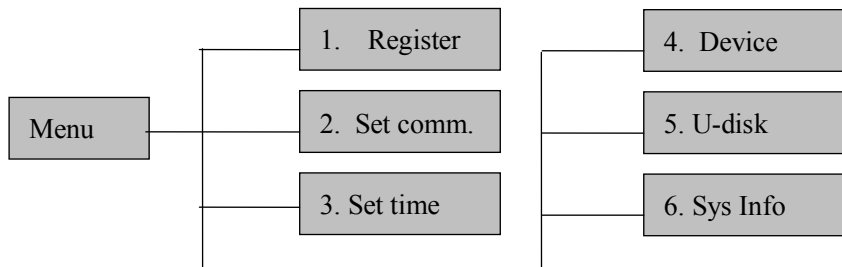


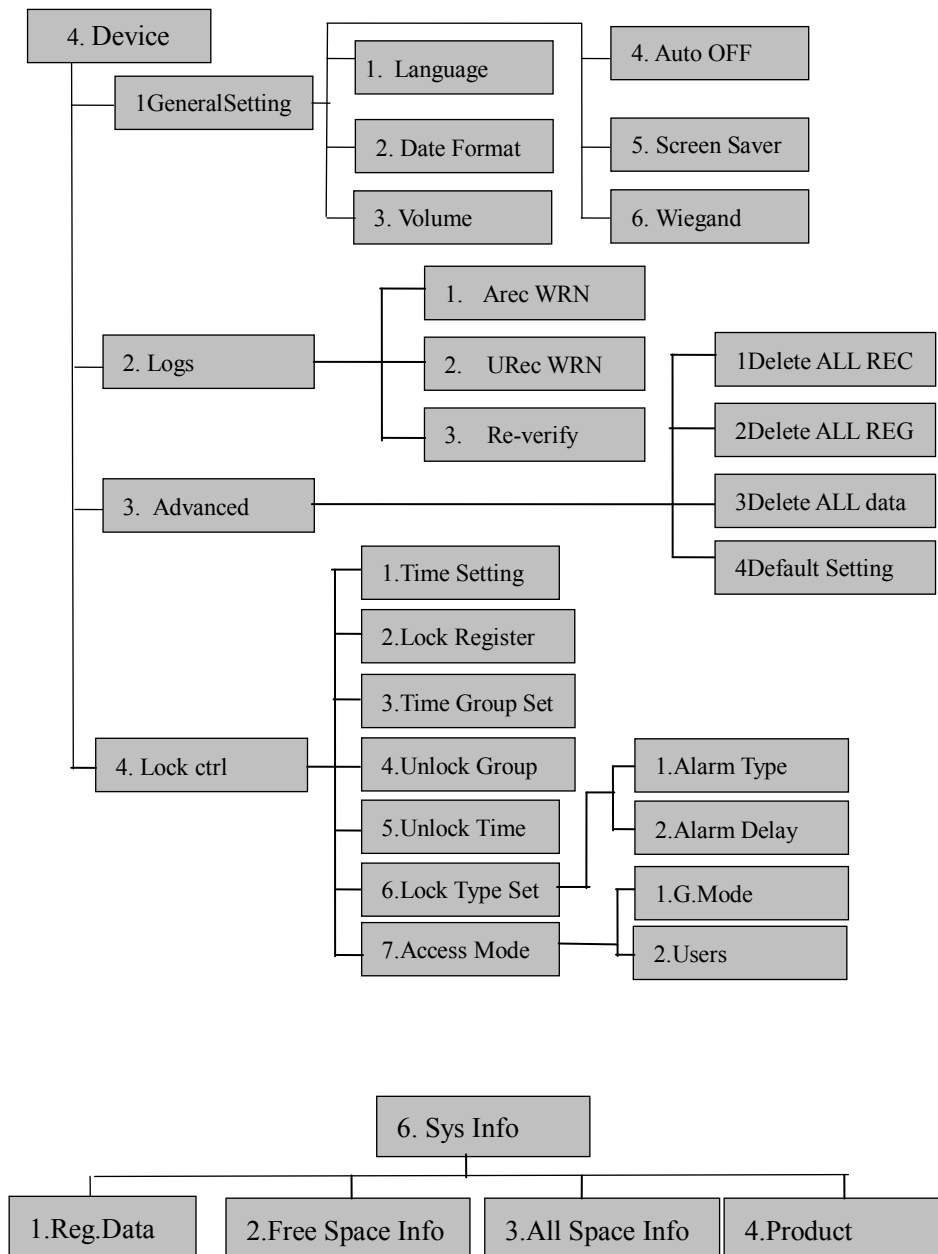


II Main parameter

Seq.	Item	Index
1	Working power supply	DC: voltage 12V + 10% current < 350mA
2	Outer size	160(L) x92(W) x 30(D) mm
3	Weight	0.28kg
4	working temperature	-20°C—50°C
5	Humidity	10%—85%
6	Storage capacity	60000 records, 500 faces, 1500 fingerprints and 500 passwords.
7	Speed of recognition	≤0.5S
8	FRR	<0.01%
9	FAR	<0.001%
10	Communication mode	TCP/IP, RS485 & U-disk Via U-disk it can send face/fingerprint/password data to other devices
11	Transmission speed	38400Bps
12	Wiegand signal	Wiegand output, can be used as a reader
13	Keyboard and display	2.8 inch color screen and touch button

III Menu introduction





Chapter 2 Instructions of the machine

Under attendance status, press the "MENU" key

(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, fingerprint, password and card. Each user can register 10 fingerprints, 1 passwords, 1 face and 1 card(optional).

The manager registration is to authorize the manager to manage the operation. The registration method is the same as ordinary user registration, but the user privilege is selected as the senior administrator.

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

1.1 Register

1.1.1 Facial registration

Register → Register → Input work ID, name → Choose the face
→ OK → Enter 8 times → Success of registration

When you register your face, you need to place your face straight, and the machine will automatically recognize the current face. After 8 successful entries of different angle, the face will be saved to the device.

1.1.2 Fingerprint registration

Register → Register → Input work ID, name → Registration of fingerprints → OK
→ Enter 3 times → Success of registration

1.1.3 Password registration

Register → Register → Input work ID, name → Select the password
→ OK → Input password → OK → Enter the password again → OK

The password length is 1-8 digits, and a user registers only one password.

1.1.4 Induction card registration

Register → Register → Input work ID, name → Selection of card → OK → Please Swipe your card → OK

1.2 View User

Register → View User → Choice of work ID → OK → Select the options that need to be edited → OK .

View User can edit the data of registered users, backup fingerprints and modify user permissions.

1.3 Delete User

Register → Delete → Input work ID → OK → Select Delete → OK

1.4 Query entry and exit record

Register → View Log → Input work ID → OK

Note: We can only inquire about the entry and exit records of current month.

II Set communication

2.1 Machine ID

Set comm. → Machine ID → Input work ID (1-255) → OK

2.2 Baud Rate

Set comm. → Baud rate → Select the speed of communication → OK

The communication speed is optional 9600 or 19200 or 38400 or 57600 or 115200. The baud rate menu is used to set the speed of the communication between the attendance and the computer. The set must be consistent with the communication port of the PC manager, otherwise it can not communicate.

2.3 IP Address

Set comm. → IP Address → Enter the IP address → OK

The IP address of the machine needs to be in the same network segment as the computer IP address.

Note: Subnet mask, default gateway, port number, transmission, server IP address, server port number, refer to the IP address, use the choice key to enter, according to the network actual environment to input.

III Set time

Move the cursor to the time setting with the key up or down or enter the numeric key, enter the time needed to be set, and save it by OK. And Week is auto-calculated and no need to input.

IV Device

4.1 General setting

4.1.1 Language

Device → General setting → Language → Choose the language required → OK

Note: there are ten types of languages: Simplified Chinese, traditional Chinese, English and so on.

4.1.2 Date Format

Device → General setting → Date Format → Select the required format → OK

4.1.3 Volume

Device → General setting → Volume → Setting up the volume of the volume (1-8 optional) → OK

4.1.4 Auto OFF

Device → General setting → Auto OFF → Set time shutdown time → OK

Note: 0 represents "no", "no" is switched off for timer shutdown, the time interval is 0-255, the unit is minute.

4.1.5 Screen Saver

Device → General setting → Screen Saver → Setting screen protection time → OK

Note: the range of time is 1-255, and the unit is minute.

4.1.6 Wiegand

Device → General setting → Wiegand → Set up Wiegand 26 or Wiegand 34 → OK

4.2 Logs

4.2.1 Arc WRN (Administrator record warning)

It is used to prompt when a administrator record reaches the limit of the attendance machine's storage limit. All the actions that are done by the administrator will be recorded as the administrator records.

Device → Logs → Arc WRN → Set number (range 0-255) → OK

4.2.2 URec WRN (User 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.

Device → Logs → URec WRN → Set number (range 0-1500) → OK

4.2.3 Re-verify

For setting two intervals of fingerprint confirmation, the unit is minute. After setting, the attendance data in the interval will not be recorded, and the sign has been signed at the same time. The default value of the factory is not.

Device → Logs → Re-verify → Set number (range 0-255) → OK

4.3 Advanced

4.3.1 Delete ALL REC

Device → Advanced → Delete ALL REC → OK

4.3.2 Delete ALL REG

Device → Advanced → Delete ALL REG → OK

4.3.3 Delete ALL data

Device → Advanced → Delete ALL data → OK

4.3.4 Default Setting

Device → Advanced → Default Setting → OK

This operation will restore all the parameters in the machine settings to the factory settings.

4.4 Lock Control

4.4.1 Time Setting

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

Device → Lock ctrl. → Time Setting → Selected time period 1 → Choose the days of the week → Set time period → OK

4.4.2 Lock Register

Used to set up a group or time segment allowed by a user.

Device → Lock ctrl. → Lock Register → Input the number that needs to be set → Set up the group and time → OK

4.4.3 Time Group Set

It is used to set different time periods in different groups, and define the time periods according to the time period item. For example, set group 1 to be time period 1.

Device → Lock ctrl. → Time Group Set → Select group → Set the required time period → OK

4.4.4 Unlock Group

For set and combine different members from different groups, it can only be unlocked when all members are combined

Device → Lock ctrl. → Unlock Group → Select combination → Set the time segment of the group unlocking → OK

4.4.5 Unlock Time 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.

Device → Lock ctrl. → Unlock Time → Set number (range 1-255) → OK

4.4.6 Lock Type Set

Device → Lock ctrl. → Lock Type Set → Setting door magnetic type and time delay → OK

Note: The gate type is divided into three types: None, NC (Normal Close) and NO (Normal Open), and the default value of factory is none. The time delay range of the gate magnetic field is 1-10 seconds. If the gate type is set to a NC type, the gate time delay is set to 5 seconds. If the verification is successful, but the signal is not closed even after 5 seconds, an alarm signal will be issued.

4.4.7 Access Mode

Device → Lock ctrl. → Access Mode → Set unlock mode and confirm user qty. → OK

Note: There are two general modes: Yes or NO. The default values of the factory is No. The total number of confirmations is 1-5, and the factory default value is 1

V、USB disk

5.1 All Rec. (Download all attendance data)

U disk → All Rec. → Insert the U disk → OK → Prompt download success

5.2 Enr. Data (Download enrolled user data)

U disk → Enr. Data → Insert the U disk → OK → Prompt download success

5.3 Load Data (Upload user data)

U disk → Load Data → Insert the U disk → OK → Prompt download success

VI System Info.

Move the cursor to the machine information item with up and down keys. There are three sub menus.

1、Reg. Data : It is used to display all kinds of registration information of

current users, including the number of registered users, the number of registered administrators, the number of facial registration, the number of fingerprint registration, the number of password registration, the number of card registration, and the specific information of attendance records.

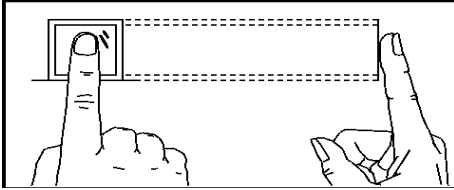
2 Free Space Info :It is used to display the remaining capacity in the attendance machine, including the number of faces, the number of fingerprints, the number of cards, the number of passwords, and the number of attendance records

3 All Space Info : Display the total capacity of the attendance machine.

4 Product : It is used to show the manufacturer, the name of the equipment and the software version of the attendance machine, including the 7 contents of the manufacturer, the name of the equipment, the manufacturing date, the serial number, the version of the fingerprint algorithm, the firmware version and the firmware upgrade.

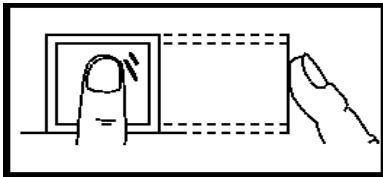
Chapter 3 Enclosure

Illustration of Correct Fingerprint Pressing

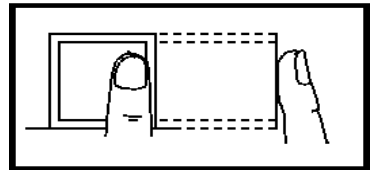


Flatly press fingerprint on U fingerprint scanner
Try to press fingerprint center to the middle or a little upper of U scanner

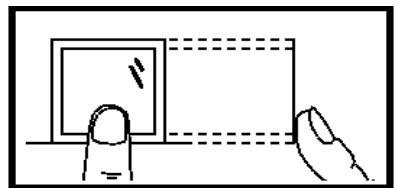
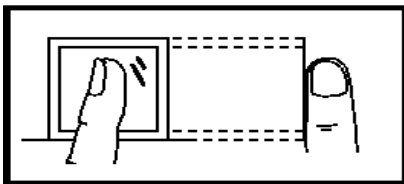
Wrong Pressing Method



Slant



Too lower



►► Wiring diagram of entrance guard

