

User Manual

8-inch Face Recognition Temperature Measure Device



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1.Preface

Thank you for choosing the Android face recognition temperature measurement device!
Before turning on, please read this manual carefully to understand precautions and how to use the device .

2.Precautions

- ★Only use the original power adapter and accessories provided by manufacturer.
- ★The gaps and openings on the device are used for ventilation and heat dissipation, please do not block and open.
- ★Do not use or store this device in a dusty, humid, or high-temperature environment.
- ★Please do not disassemble and repair the device by yourself. please contact the original factory or dealer to solve it.
- ★Avoid stepping on the power cord or power adapter to avoid the danger of electrical leakage caused by damage to the cord. If the wire of the power adapter is broken, do not continue to use it, otherwise it may be dangerous.
- ★Please unplug the power cord when the machine is not used for a long time in a thunderstorm.
- ★When using, please do not place the machine on the edge of the table or in a place where children can easily reach it, so as to avoid the machine from breaking or hurting children.
- ★Do not squeeze the display forcibly during transportation or use, and do not damage the display with sharp objects or hard objects to avoid damage to the display.
- ★Please use a dry soft cloth or a soft cloth with a soft detergent to clean the equipment. Do not use any kind of solvents, such as alcohol or gasoline, otherwise the surface treatment layer may be damaged.
- ★Please do not plug or unplug the relay, Wiegand and other external interfaces on the device with power to avoid electric shock, terminals, and main board damage.
- ★Be sure to use the device environment within the allowable temperature (-10°C ~+55°C) and humidity (10%~90%)

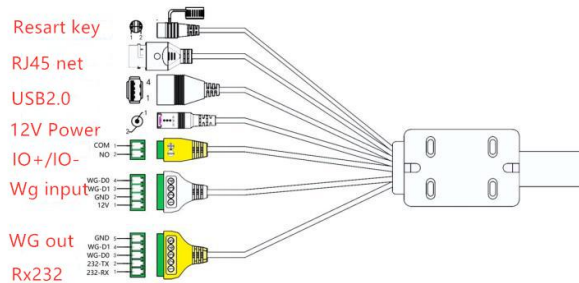
3.Product features

- 3.1 Adopt 8-inch IPS full-view LCD display.
- 3.2 Industrial appearance, waterproof and dustproof design, stable and reliable.
- 3.3 Support 2W face library. The recognition rate of 1:1 comparison is over 99.7%, the recognition rate of 1:N comparison is over 96.7%@0.1% false recognition rate, and the accuracy rate of live detection is 98.3%@1% false rejection rate. The face recognition speed is less than 1 second.
- 3.4 Support for accurate face recognition and comparison while wearing a mask.
- 3.5 Adopt industrial grade binocular wide dynamic camera, night infrared and LED dual compensation.
- 3.6 Standard Rockchip RK3288 quad-core processor, Cortex A17, 1.8G, and strong performance.
- 3.7 Support human body temperature detection, temperature display, 1 meter ultra-distance body temperature detection, $\pm 0.3^{\circ}\text{C}$ error, support and automatic alarm for abnormal body temperature, second-level detection speed, real-time export of attendance temperature measurement data.
- 3.8 Support IC card reader, QR code reader and other peripheral expansion.
- 3.9 Support system level, APP offline level, APP + background network level multiple API docking, complete documentation, and support secondary development.

4.Wire interface definition

●Seven-line

Interface function description



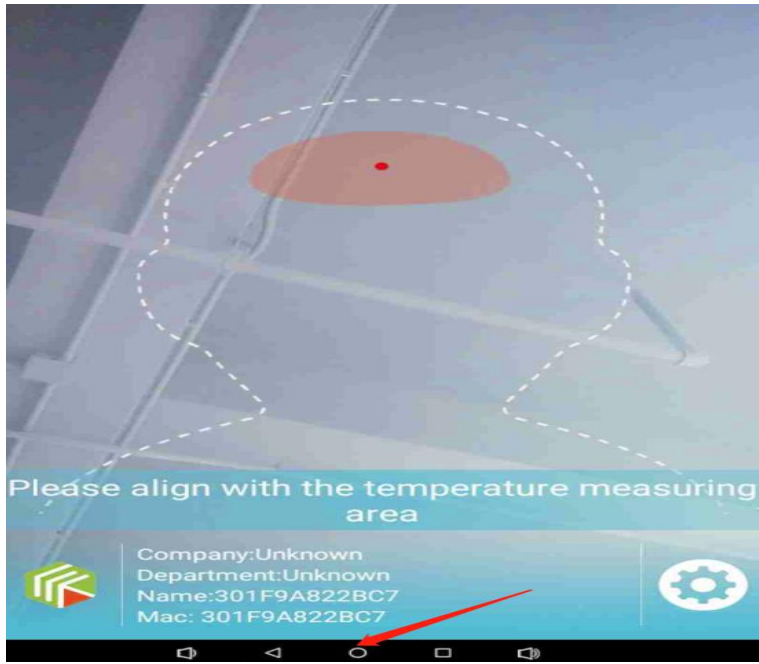
●Nine-line



5.Steps to use device

5.1 Exit device of APK

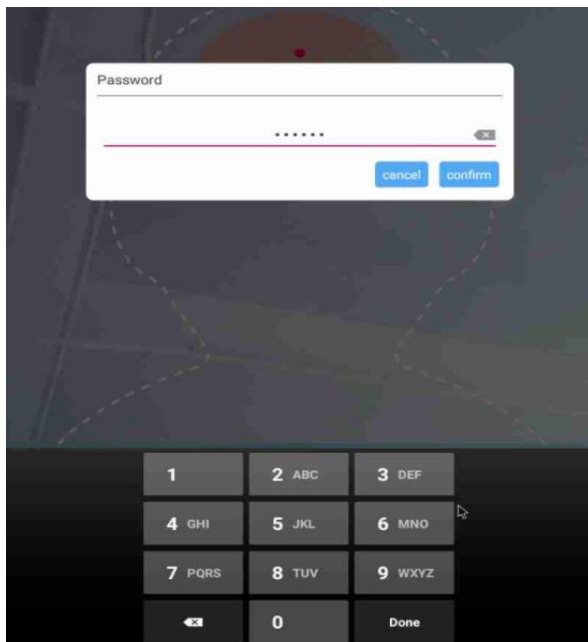
APK will run automatically after the device is started up. First you need to exit APK and set up the network. Insert the mouse, hold down the left button and drag it upward: The following interface will appear. Click the small circle in the middle to exit the software and enter the main interface of Android system



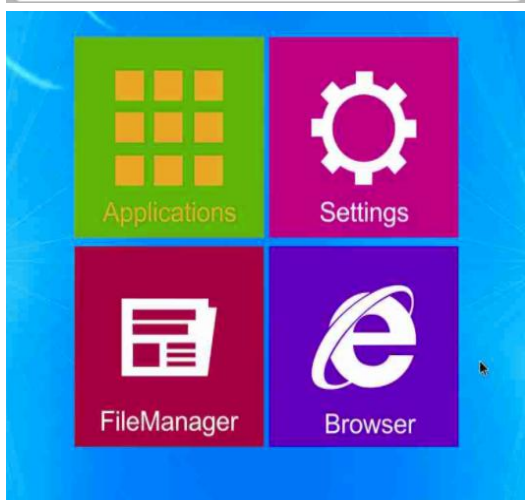
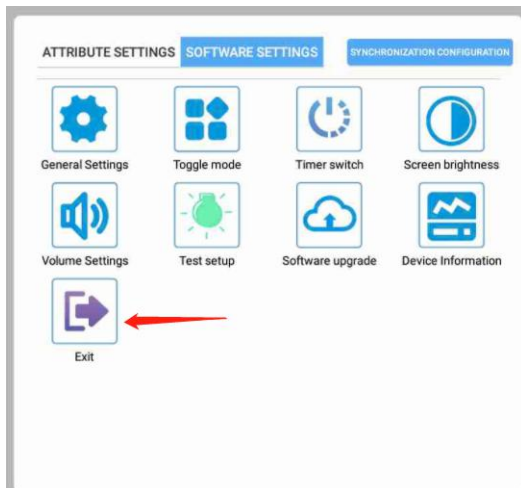
Exit option two



①Mouse click the setting gear, enter the password: 123456



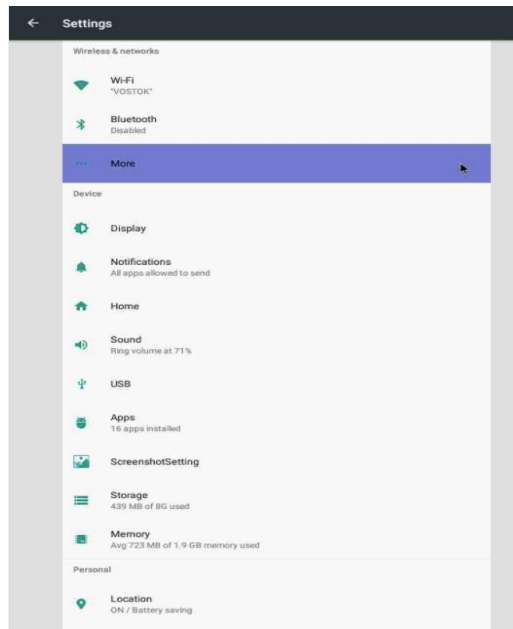
②Under the APK settings menu, click Exit Software



5.2 Network settings

Click Settings: Enter the settings interface, click WLAN, find the WIFI that needs to be connected, and enter the WIFI password to use the WIFI network.

Wired network connection: click more → click Ethernet



Click the open button: you can use the wired network



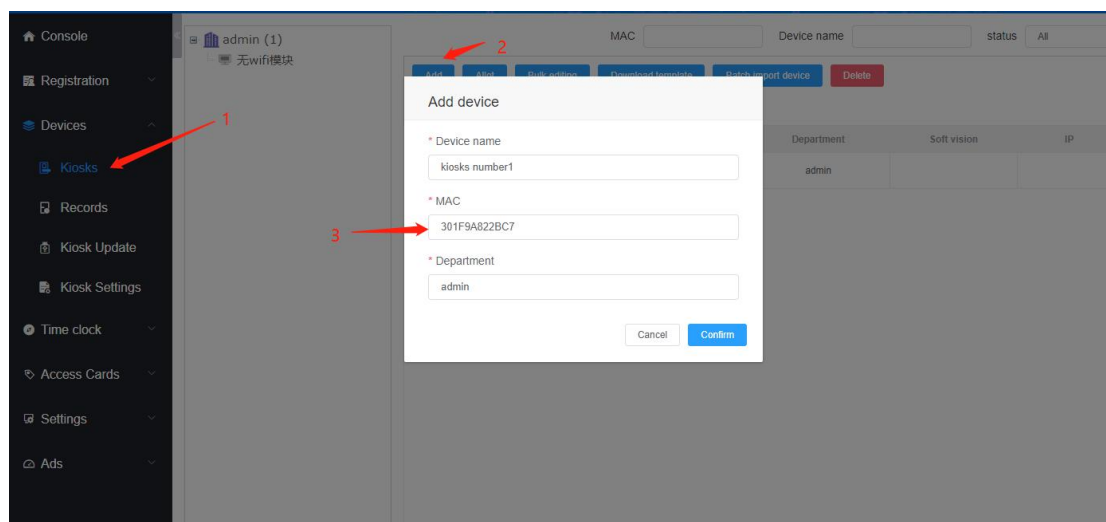
5.3 connect to the server:

①Open the server software in Google Chrome (for Eface server software settings, please read the product installation manual)

Click Access Control → Click Add → Fill in Device Information

Device name: custom settings

Device number: fill in the MAC code of the face recognition device



②After the addition of device MAC, as shown in below screenshot

添加	分配	批量修改	删除	重启设备	调整音量	重启应用	远程开门	
<input type="checkbox"/>	状态	设备名称	设备MAC	部门名称	软件版本	IP地址	离线时长	操作
<input type="checkbox"/>		测试	301F9A814937	测试	V3.0.9.3_10	192.168.1.100	0	修改分组 编辑

③The status is green, indicating that the device has successfully connected to the local server and the device is online



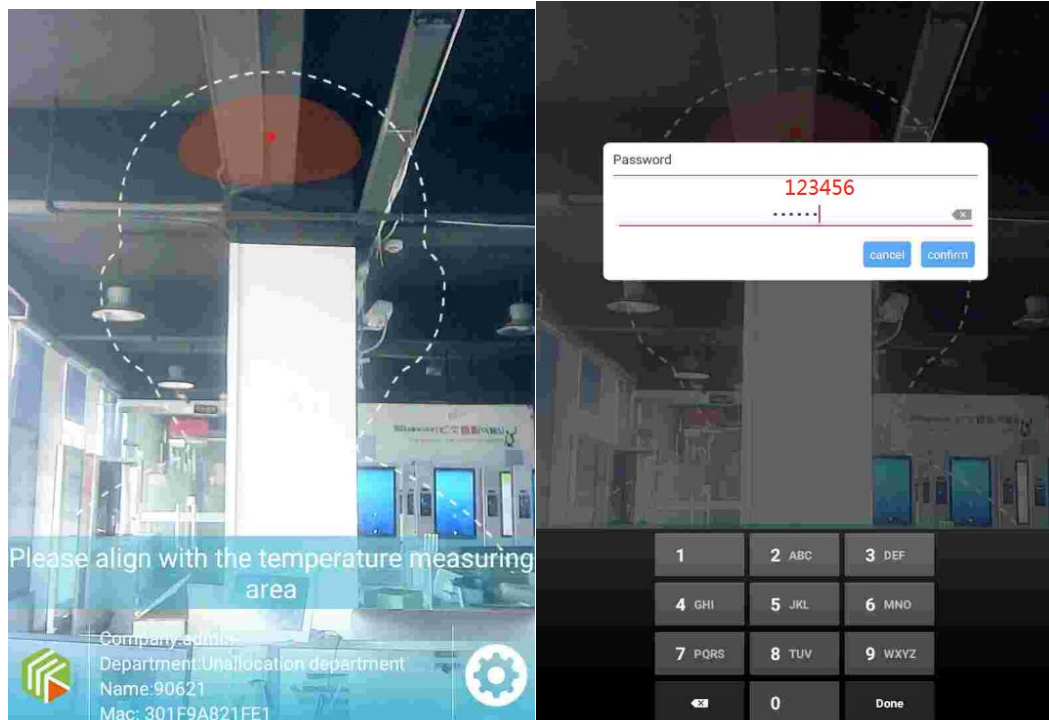
④If the device status is gray, it means the device connection failed, or device is off line.



After adding the device to the PC client: Enter the Android interface and click Server Connection, and enter the correct local server IP address. (For specific operations, please refer to 6.1)

6.Product function introduction

Face recognition interface, you can view company logo, company name, device name and MAC address Click the setting icon to verify the password, the initial password is 123456



Device setting interface

Property setting interface, there are eight functions, respectively: server connection, face setting, temperature setting, personnel information, traffic record, voice setting, visitor information, blacklist, synchronization configuration.



6.1 Server connection

The device IP address and port number can be provided by the superior administrator, or you can query it yourself, the local IP address

IP address: **Please fill in the IP address of the server that needs to be connected and set up**

Port: The port information set by the installation server. The default is 8085

QR code scanning: only suitable for cloud connection operations (open WeChat → search for Eface applet app → log in → scan code to add and manage devices)

Cloud IP address: 47.107.50.81

Server connection (Connected)

IP address:

Port number:

[CONNECT TO SERVER](#)

[CONNECTION RECORDS](#)



Please use the applet scan code register

After entering the cloud IP address, click the connection server, and the prompt that the connection has been made indicates that the connection is successful.

Local IP address: Computer input ipconfig for query。

Enter the local IP address or cloud server address at the red arrow; then click the link server, if the link is successful, it will prompt the connection is successful

Server connection (Connected)

IP address:

Port number:

[CONNECT TO SERVER](#)

[CONNECTION RECORDS](#)



Please use the applet scan code register

6.2 Face parameter settings

Modify the configuration properties according to the current hardware information

Mask detection: detection of wearing a mask.

Mask interception: It is forbidden to pass without a mask. (The mask is blocked, there will be an alarm sound)

Monocular living body: The camera detects living body.

Detection mode: direct face swiping without personnel information display.

Night mode: The light is dark at night, you can turn on this switch to fill the screen with light.

Other settings: It is recommended not to change by the way, it may cause the phenomenon that the device does not measure the temperature

Face parameters settings		GET RESET
	Mask detection	<input type="checkbox"/>
	Live detection	<input type="checkbox"/>
	Detection mode	<input type="checkbox"/>
	Camera switch	Rear >
	Distance	1.5 meters >
	Rotation	90 >
	Angle preview	90 >
	Face frame image	No image >
	Resolution	automatic >
	Face frame Angle	automatic >
	Front camera image	Image >
	Rear camera image	No image >
	Capture Angle	270 >
	Recognition threshold	70.0 >
	Living threshold	65.0 >
	Night mode (screen fill)	<input type="checkbox"/>
	Night time	18:30 ~ 6:30 >

SAVE

6.3 Temperature setting

If your device supports temperature measurement function and needs this function, please configure the current settings

Temperature measurement peripherals: It is recommended not to change: it is recommended to use the original factory value.

Display temperature measurement area: It is recommended to turn it on, and you can target the temperature measurement area to test. Test the accurate temperature.

Print temperature measurement results: An external printer can be used to print the temperature measurement results.

Temperature unit: You can choose to switch to Celsius and Fahrenheit.

Alarm sound: You can choose to turn off the alarm sound.

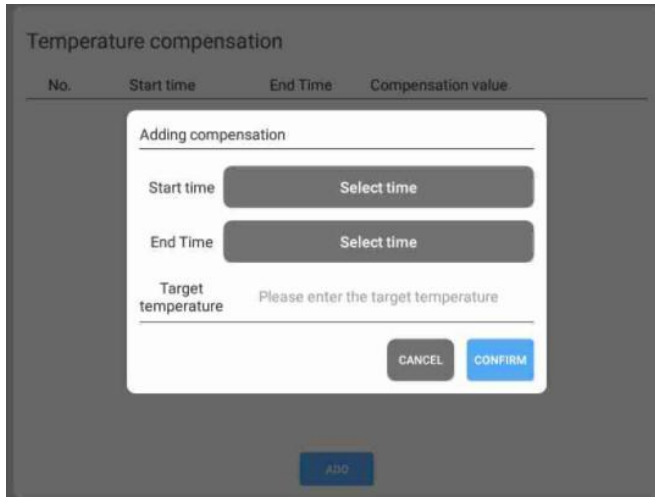
Temperature setting SET RESET

	Temperature measuring peripherals	IIC_MLX_90621_BAB >
	Display temperature zone	<input checked="" type="checkbox"/>
	Print thermometry results	<input checked="" type="checkbox"/>
	Temperature unit	c >
	Temperature measuring time	1.0 >
	Automatic calibration	2.37 >
	Fever temperature	37.5 >
	Effective temperature	35.0 >
	Alarm sound	<input checked="" type="checkbox"/>

SAVE

Automatic calibration

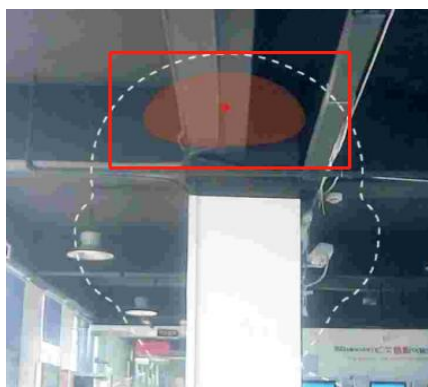
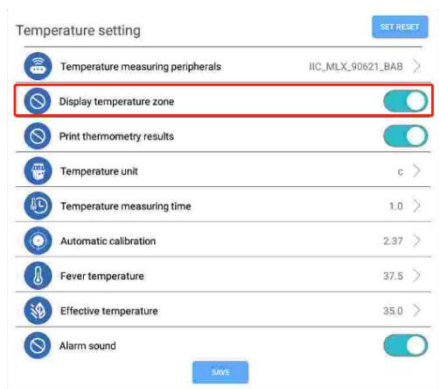
When the temperature difference is too large, you can set the temperature difference compensation for different time periods through automatic calibration



※After the face is close to the recognition situation, click start and wait for 10 seconds

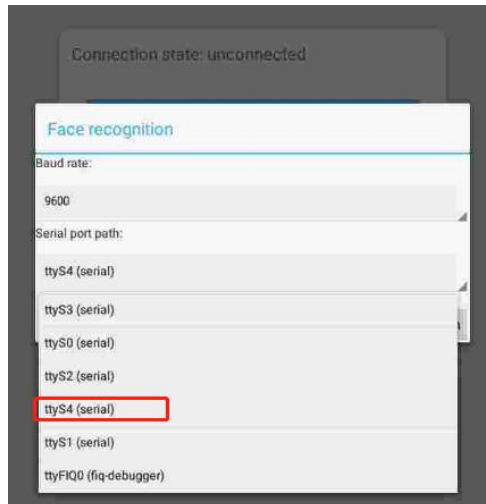
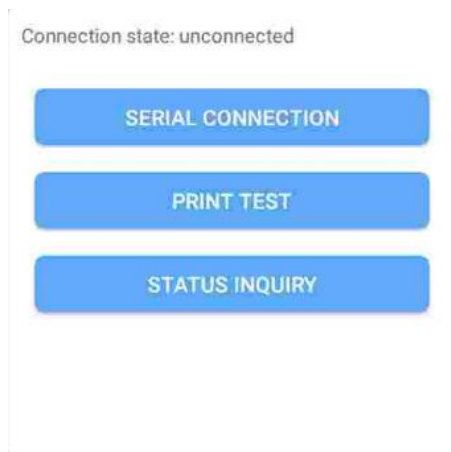


Temperature display area

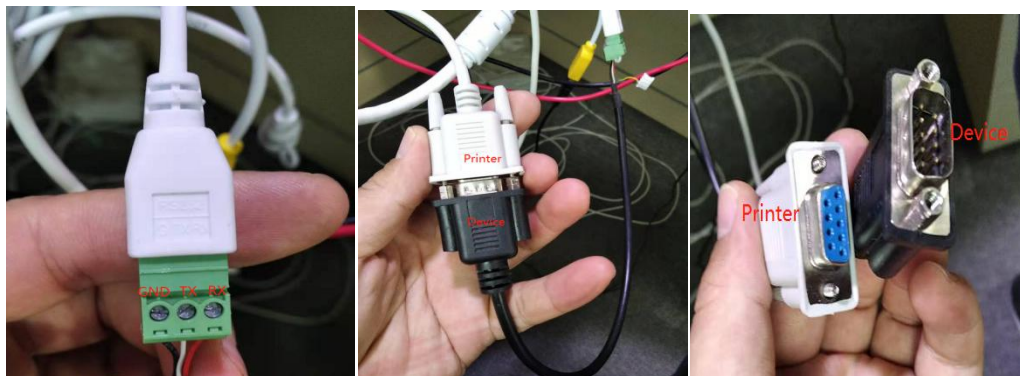


Printer options Settings

Printer setting interface: select baud rate 9600 from serial port connection, and select serial port path: ttyS4(Serial)



Printer wiring connection:



6.4 Personnel Registration

① Click the Add button to register personnel information locally. This function can only be used when connecting to the server.

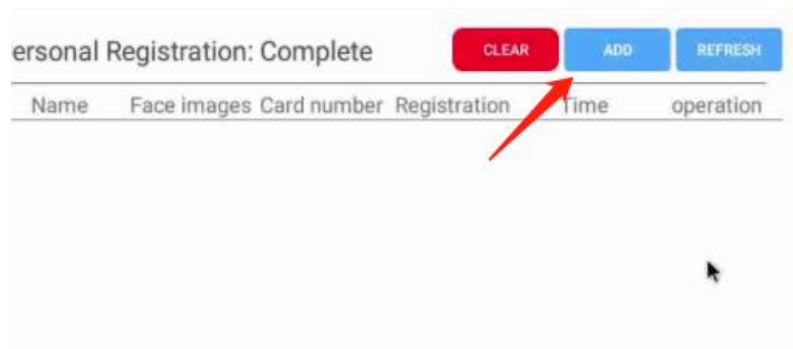
Picture requirements

500*500 pixel size

Background solid color

Good light

The picture is clear





②Click the picture + sign, you can use the device to directly take pictures and upload

Name *

Mobile phone *

card number

gender female male

ADD

6.5 Access record

Can view all personnel's travel records, methods, body temperature, and travel time and other information

There are 2 ways to pass records:

Online mode: When the device connects to the server, the records will be uploaded directly to the server and will not be saved in the machine.





Offline record: When the device has no network, it will be saved in the offline record of the machine.

Click "Export" to export the relevant information of the pass record.

Offline records can be automatically uploaded to the server after connecting to the network.

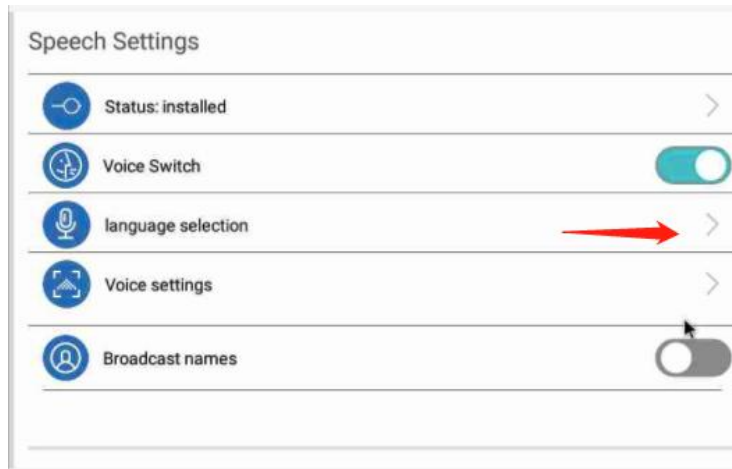
Upload time can be customized: the synchronization time is 10 minutes



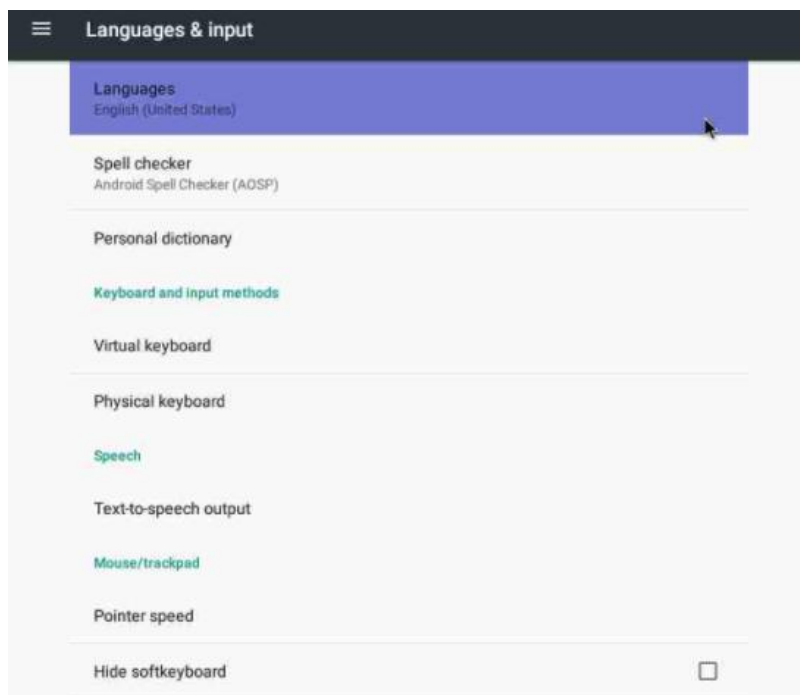
Name	Face images	Passage type	Card number	Body temperature	Access time
A Stranger		Face recognition	None	36.3	2020-10-20 15:03:15
A Stranger		Face recognition	None	36.4	2020-10-20 15:03:10
A Stranger		Face recognition	None	36.6	2020-10-20 15:03:05
A Stranger		Face recognition	None	36.4	2020-10-20 15:03:01
A Stranger		Face recognition	None	36.5	2020-10-20 15:02:52
A Stranger		Face recognition	None	36.5	2020-10-20 15:02:47
A Stranger		Face recognition	None	36.5	2020-10-20 15:02:00
A Stranger		Face recognition	None	36.8	2020-10-20 15:02:55

6.6 Speech setting

①Language selection can be set in the voice setting interface, and TTS language broadcast



②Click on language selection: the interface for setting system language will appear. As shown:



③Click on voice settings: change the language to announce the sound

Text-to-speech settings

Preferred engine

Pico TTS

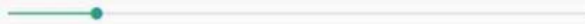


Google Text-to-speech Engine

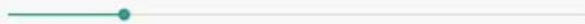


General

Speech rate



Pitch



Reset speech rate

Reset the speed at which the text is spoken to normal.

Reset speech pitch

Reset the pitch at which the text is spoken to default.

Listen to an example

Play a short demonstration of speech synthesis


Default language status

English (United States) is fully supported

Google TTS voice data
Bengali (Bangladesh)
Bengali (India)
Cantonese (Hong Kong)
Chinese (China)
Chinese (Taiwan)
Czech (Czech Republic)
Danish (Denmark)
Dutch (Netherlands)
English (Australia)
English (India)
English (Nigeria)
English (United Kingdom)
English (United States)
Estonian (Estonia)
Filipino (Philippines)
Finnish (Finland)
French (Canada)
French (France)


6.7 The visitor information

You can view the visitor added from the client.

Visitor Information: Complete				CLEAR	REFRESH
Name	Face images	Registration	Effective time		
Kenvie		Completed	2020-12-21 23:59:59		

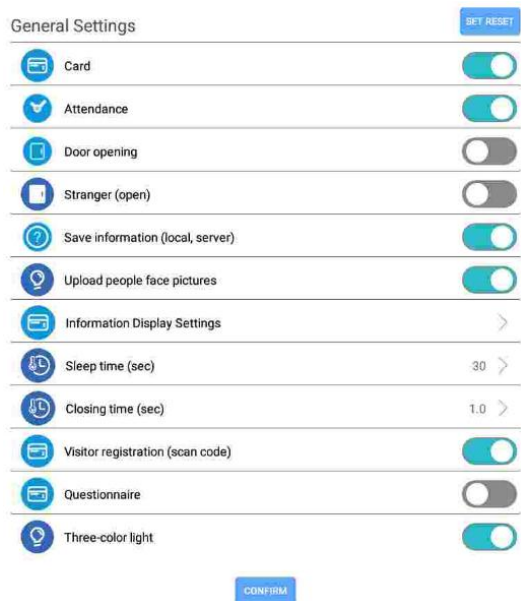
6.8 Blacklist

you can view the addition of blacklist personnel on the device side

blacklist: Complete				CLEAR	REFRESH
Name	Face images	Registration	Effective time		
Mark		Completed	Forbid		

General settings

- Swiping card: After turning on the switch, NFC card information can be recognized
- Attendance: After turning on the switch, the software attendance function can be used
- Open the door: after opening the switch and connecting the device to the access control system, the device can use face recognition and swipe card to open the door.
- strangers (open the door) : Access the access control system: strangers are forbidden to open and close the door.
- Upload face pictures: when this function is enabled, upload traffic records and upload photos
- Visitor registration (scanning code) : after opening this option, the stranger face recognition will pop up the scanning code registration option, take out the mobile phone WeChat scan, and enter the information for registration.
- Questionnaire survey: (choose one or the other) : After turning on this function, the questionnaire registration form set on the EFace terminal will be synchronized to the device



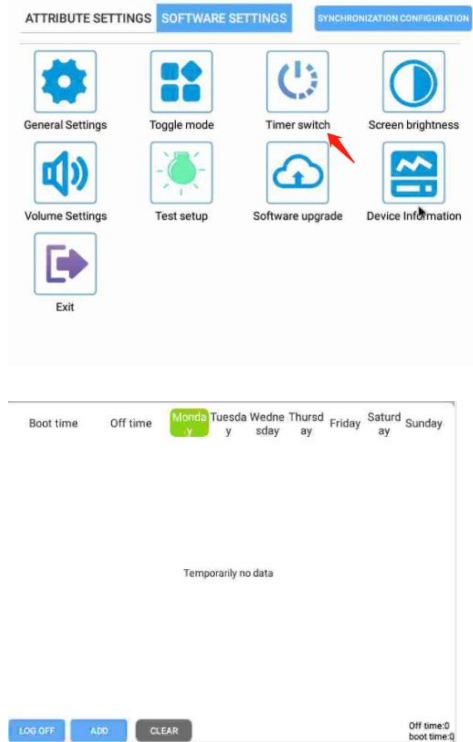
6.9 Visitor registration (scan code)

After identifying the stranger, you need to scan the code to register



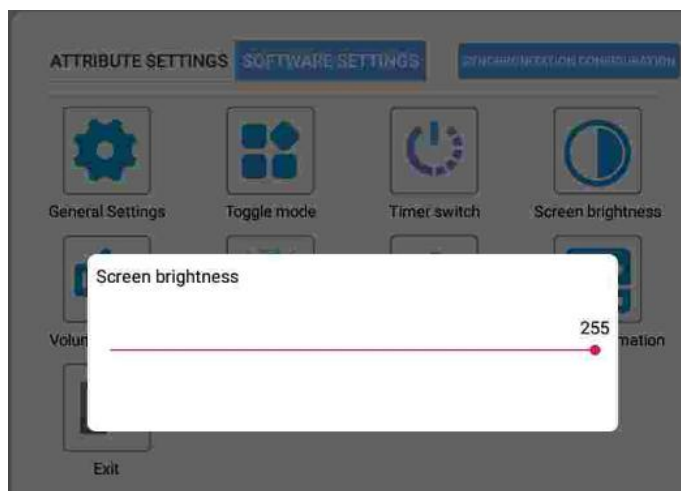
6.10 Timer switch

You can set different time periods to switch the device on and off



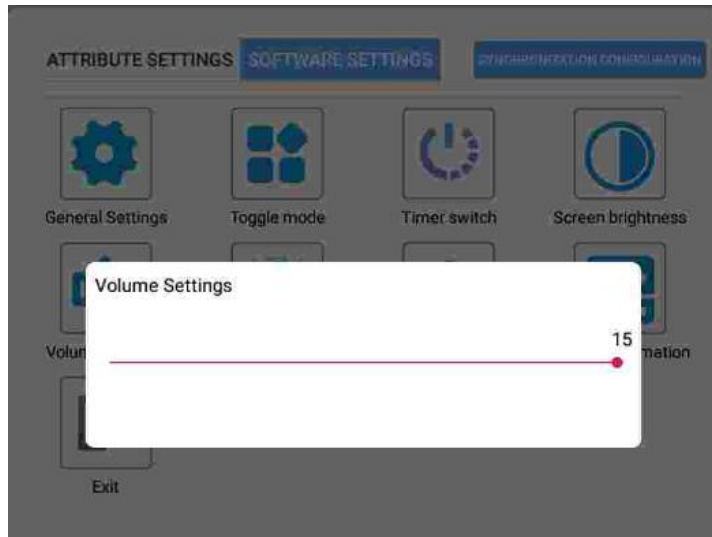
6.11 Screen brightness control

The screen brightness can be adjusted to a maximum of 255



6.12 Volume set

Adjust the speech size of the device to a maximum of 15



6.14 Equipment information

This option allows you to view the device's MAC, version, and so on

