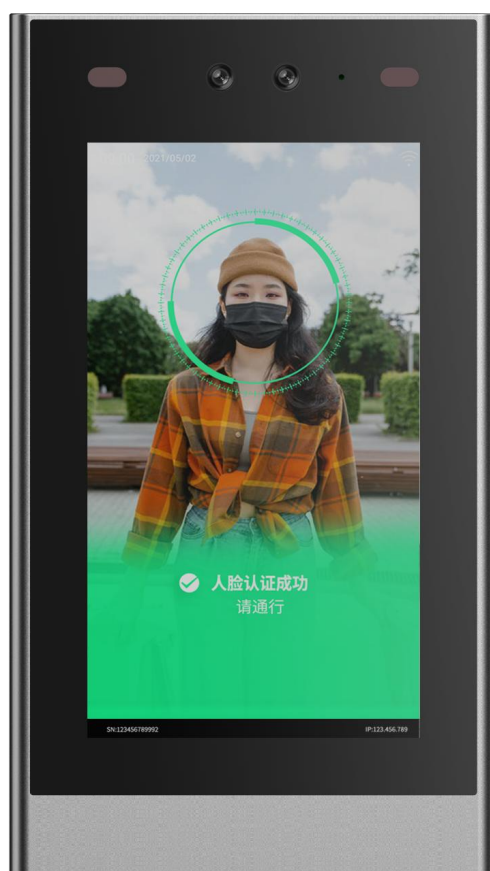


Intelligent face recognition terminal

FCV5003 Product Manual



Revision History

Change Date	Version	Responsible Person	Changes
2023.08.08	V1.0		Initial release
2024.05.20	V1.1		Added selection table

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1. Preface

Thank you for using the FCV5003 face recognition device. Carefully reading this document can help you understand the functions and features of this device, and quickly master the use and installation methods of the device.

1.1. Product Introduction

FCV5003 uses the Linux operating system, has a storage capacity of 8GB, and can be expanded to 16GB/32GB. It has multiple communication methods such as RS485, Wiegand, WIFI, and Ethernet (customizable and expandable to 4G). Face recognition uses local verification, and the face database is stored locally on the device. After successful verification, the personnel ID can be output, and the output method can also use one of multiple methods.

The product features a 7-inch touch screen, voice broadcast, and good interactivity and ease of use.

The FCV5003 device can support the protocol mode, and users can perform secondary development based on the "Communication Protocol" provided by our company.

1.2. Product Features

7-inch high-brightness LCD touch screen, real-person voice broadcast prompts, and 200W pixel binocular camera.

The recognition accuracy rate of the full database is over 97%, and the recognition time is less than 0.3S/person.

The recognition distance is 0.3m-1.5m, and it supports a maximum of 3,000 face libraries.

People wearing masks, glasses, or hats can be effectively identified, and mask detection is supported.

Built-in silent liveness detection can effectively block photo, video and mask attacks.

Support TCP/IP, MQTT, and HTTP protocols.

RS485, Wiegand output face ID number.

Built-in high-precision clock chip and RTC battery, can save time when power is off.

Electrostatic protection: contact 8KV, air 12KV.

Support logo customization, protocol customization, and OEM.

Support gate machine, 86 box, flat wall and column installation.

1.3. Product Selection Table

Serial number	model	Specification
1	FCV5003-W-01	WIFI output, with NFC, touch screen, 86 box installation
2	FCV5003-4-01	4G output, with NFC, touch screen, 86 box installation
3	FCV5003-W-02	WIFI output, with NFC, touch screen, torch bracket installation
4	FCV5003-4-02	4G output, with NFC, touch screen, torch bracket installation
5	FCV5003-E-03	Ethernet output, with NFC, touch screen, 86 box installation, with POE power supply
6	FCV5003-E-04	Ethernet output, with NFC, touch screen, torch bracket installation, with POE power supply

1.4. Instructions for use

1.4.1 Face Registration Photo Requirements

1. Image size: 50~300K

Image height and width: width 512~800, height 640~1024

Image format: JPG.

2. Background requirements: Lifestyle photos, no beauty filters, no heavy makeup, no sunglasses, scarves, masks, etc.

1.4.2 Face Registration Requirements

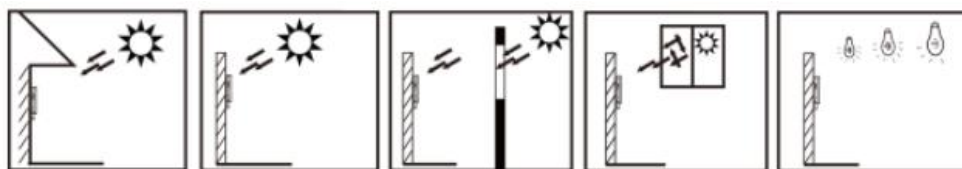
During the face registration process, the face needs to be in the center of the registration frame as much as possible. The registrant should look directly at the camera and remain motionless, waiting for the device to complete the registration.

1.4.3 Wiring requirements

1. Unused pins must be insulated!
2. If the equipment is damaged due to short circuit due to failure to perform insulation treatment, the user shall bear the responsibility!

1.4.4 Installation Environment Requirements

1. Avoid backlight, direct sunlight, direct sunlight through windows, oblique sunlight through windows, and close-range lighting. The above environments will affect the face recognition effect.



Backlight

Direct sunlight **Sunlight through** **Sunlight through** **Light close up**

Direct sunlight from windows

Window Slant

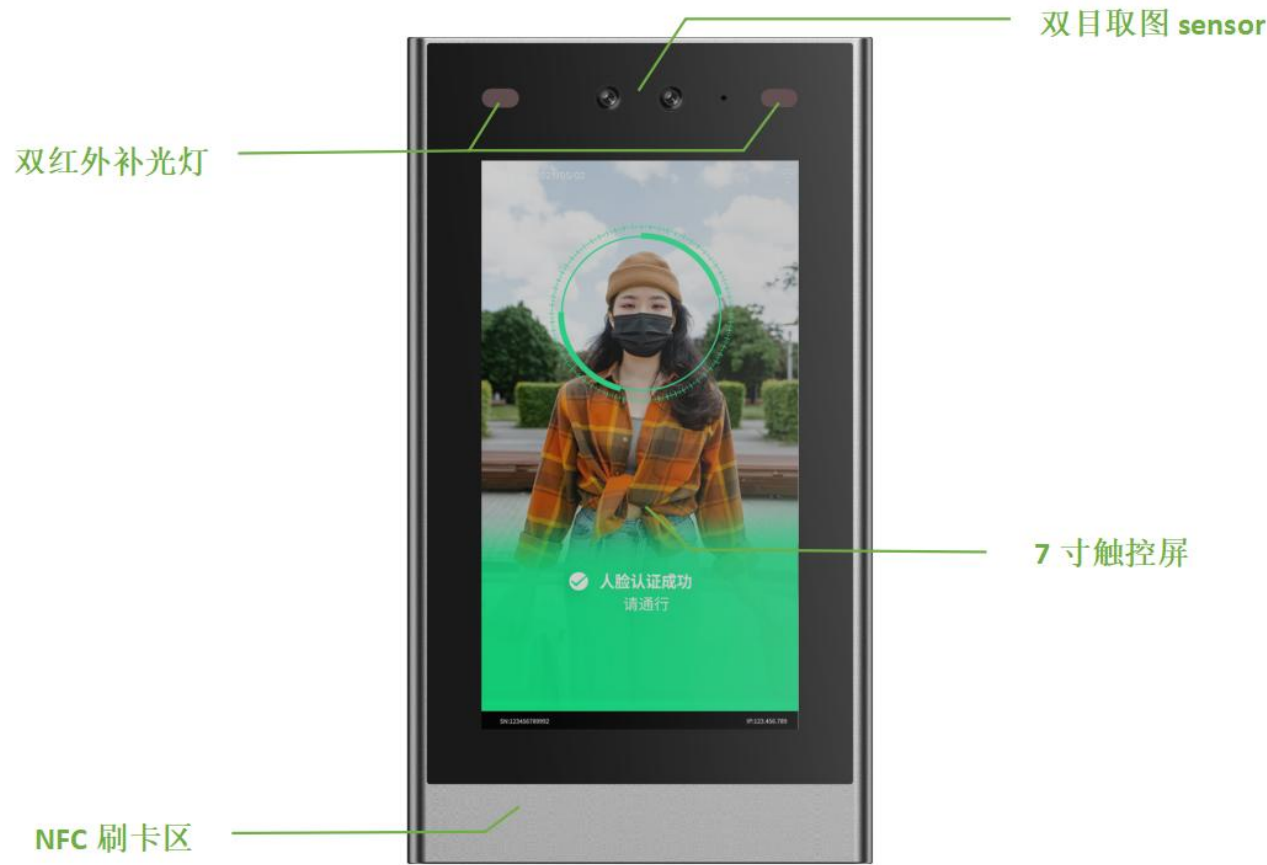
2. The display surface and reading window are made of tempered glass, which has good light

transmittance, pressure resistance and impact resistance. However, it is still necessary to avoid objects with higher hardness scratching the tempered glass, which will affect the display and touch effects.

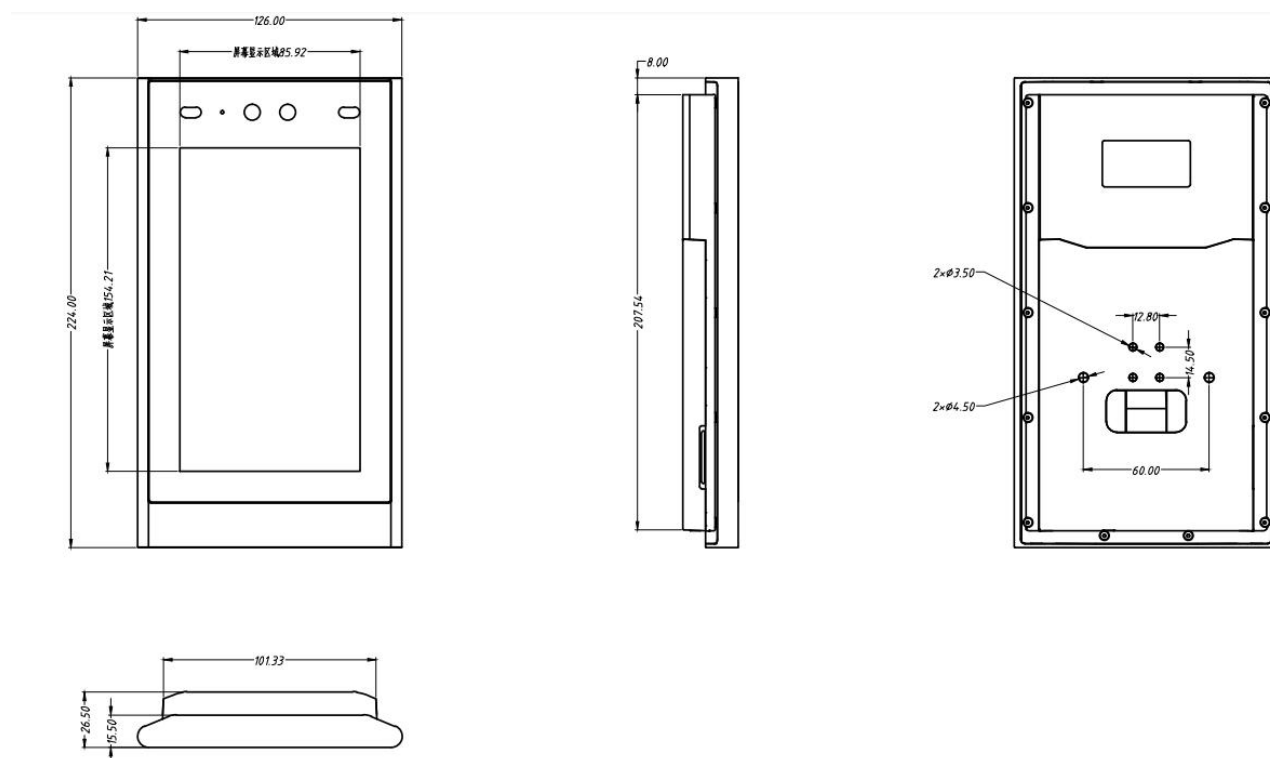
3. The RFID card reader antenna is located at the bottom of the device. When installing it, avoid metal and magnetic materials within 10cm, otherwise the card swiping performance will be seriously reduced.

2. Product Structure

2.1. Appearance rendering

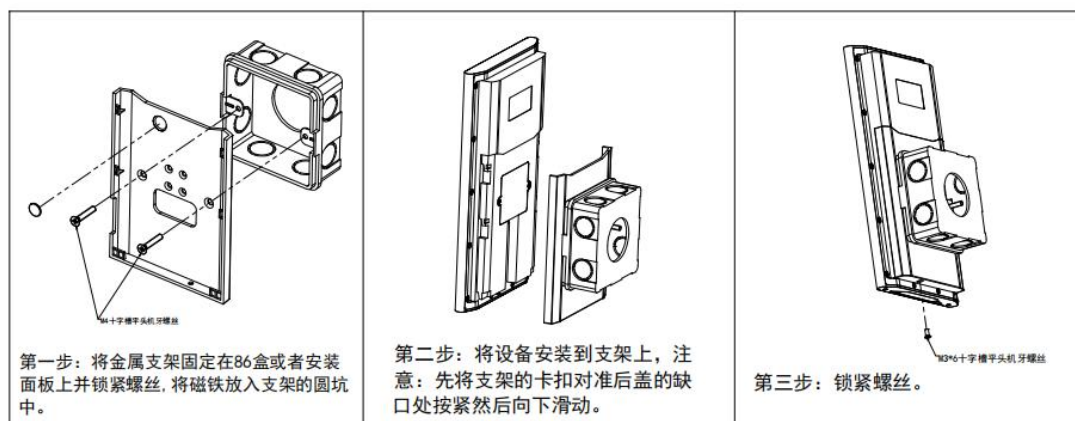


2.2. Product Dimensions



2.3. Installation

86 box installation



Torchbearer Installation



Column Installation

Step 1: Fix the equipment bracket to the torchbearer bracket and tighten the screws;

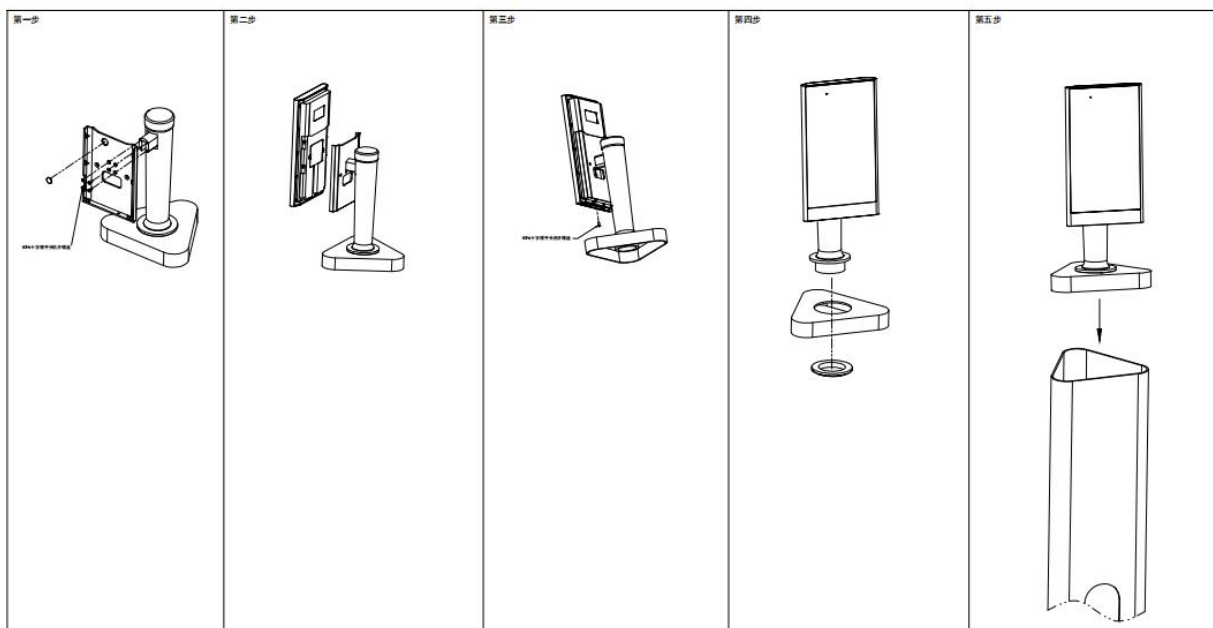
Step 2: Install the device on the bracket;

Note: Align the bracket's buckle with the notch on the back cover, press it tightly and then slide it downwards.

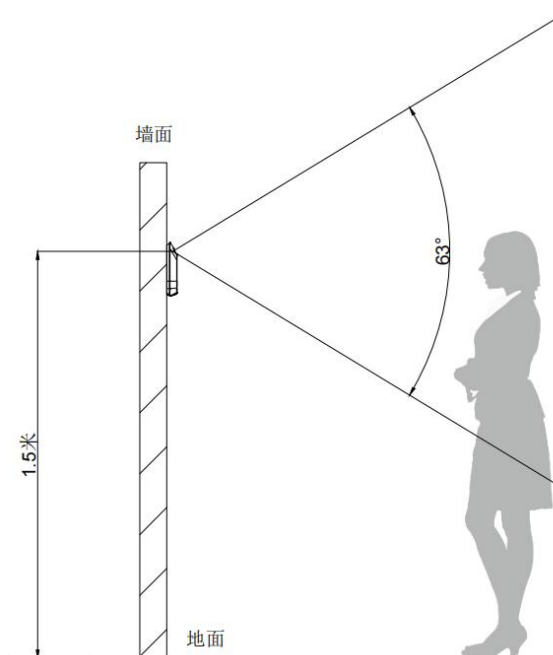
Step 3: Tighten the fixing screws at the bottom;

Step 4: Install the base of the torch bracket and tighten the nut;

Step 5: Secure the torch bracket to the column.

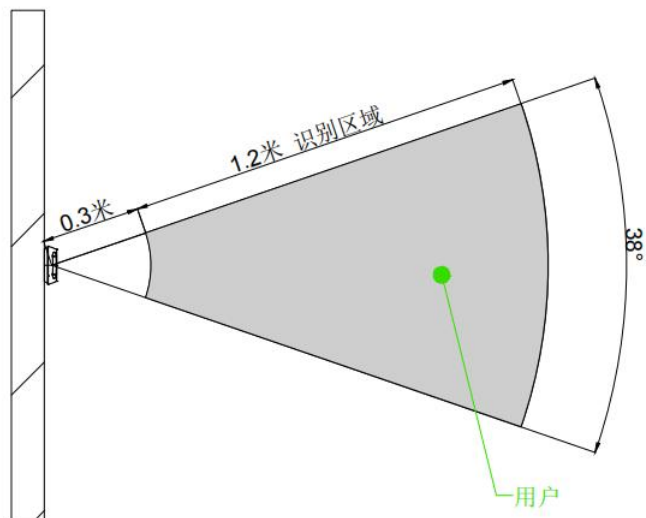


2.4. Reading area diagram



side view

墙面



Top view

2.5. Interface Description

1. The output interface uses PHB2*10P terminal semi-stripped wire, which can be connected to power supply, electromagnetic lock, Wiegand control equipment, 285 control equipment, etc. Please define the wiring according to the terminal wire label. The wire label description is as follows:

Serial number	Line Marking Description	Wire color
1	NC2	Green and White
2	N01	Orange White
3	COM2	Red and White
4	COM1	Brown and white
5	N02	Black and White
6	NC1	Cyan (light green)
9	485A	Pink
11	485B	white
12	GND	Ash
13	WG_D1	purple
14	GND	blue
15	WG_D0	green
16	GND	yellow
17	IN2	orange
18	GND	black
19	IN1	Brown
20	12V	red

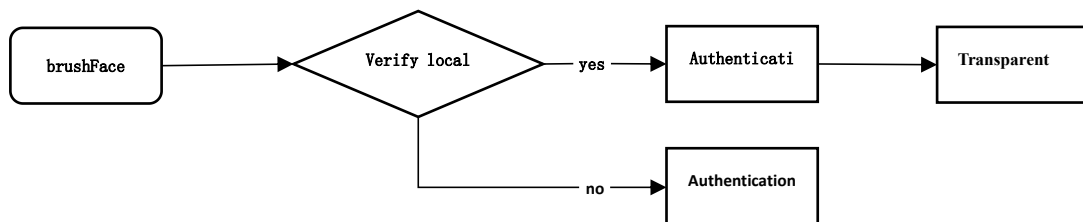
2. Standard 100M Ethernet port

3. Technical Parameters

System Parameters	operating system	Linux	
	Built-in storage capacity	8GB	
	CPU	Dual-core Cortex A7@1GHz	
	NPU	NPU@0.6T	
Screen parameters	size	7 inches	
	How to operate	Touch Operation	
	Resolution	1024*600	
Network parameters	Wired network	Support 1 10/100M Ethernet	
	Wireless network	2.4G WiFi	
		4G	
Physical Interface	RS-485	1	
	Network port	1 x RJ45	
	USB	1 TypeC at the bottom of the device	
	Wiegand	1 Wiegand 26/Wiegand 34	
	Relay	2	
	IO Input	2	
	Anti-tamper	1 Hall tamper switch	
Video Parameters	Number of lenses	2	
	Pixel	2 million	
Audio parameters	speaker	1pc, 4Ω 2W	
Electrical parameters	Supply voltage	9-24V (DC) (12V power supply recommended)	
	Power supply mode	DC power supply; POE power supply optional	
	Working current	12V/1.5A (13W)	
Environmental parameters	Dust and water resistant	IP65	
	Electrostatic protection	Contact 8kV, Air 12kV	
	Operating temperature	-20℃ -60℃	
	Storage temperature	-40℃ -80℃	
Function parameters	Face Recognition	Recognition algorithm	Dynamic face detection, tracking, 1:N recognition algorithm based on video stream, dynamic dual-camera anti-counterfeiting
		Face database	3000
		Identification distance	0.3~2.3M
	Contactless card	Card system	ISO14443 A protocol cards such as M1 card, CPU card, etc.
		Card swiping distance	0-3cm
	Time calibration function	Support RTC real-time time calibration	
	Voice Function	Voice broadcast, support TTS	
	Fill light function	a. Support infrared fill light b. Do not support white light fill light	

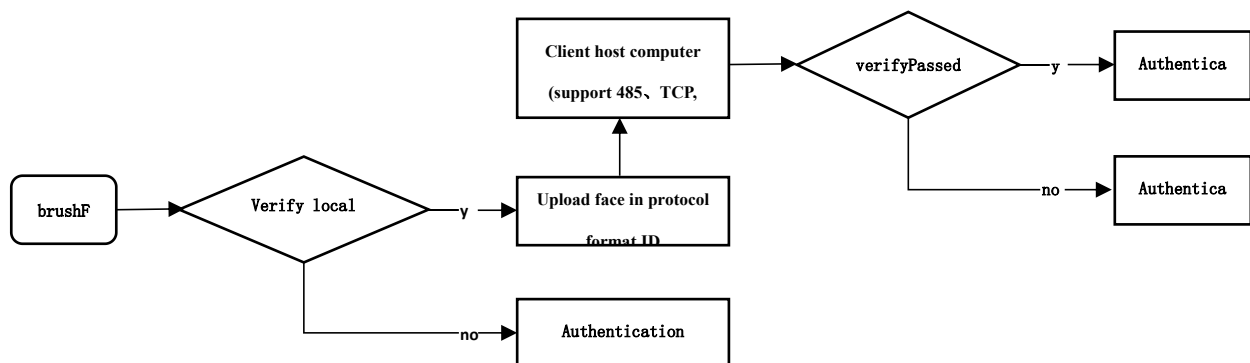
4. Working Mode

4.1. Transparent mode



Note: In transparent transmission mode, face scanning only compares with the local face database, and there is no authentication process.

4.2. Protocol Mode



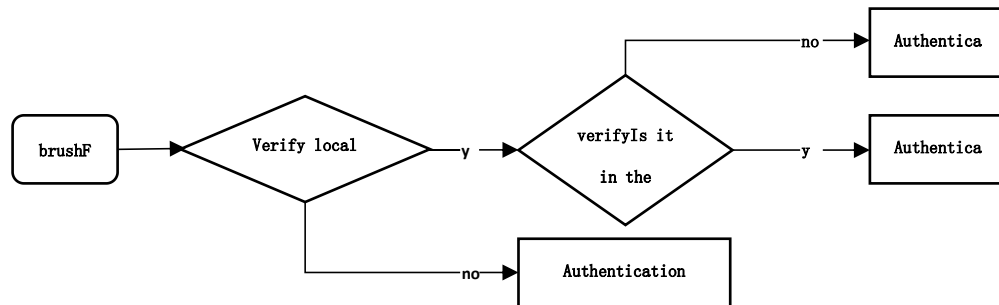
Note: In protocol mode, users need to build a host computer to receive data and return authentication results through 485 or TCP, HTTP protocol.

The agreement document is available on the official website.

4.3. Development Mode

The development mode is currently only used for card reading and writing operations, and other functions are not supported yet.

4.4. Whitelist authentication mode



5. Device User Manual

5.1. Log in

The FCV5003 device uses a 7-inch touch screen. Press and hold the device screen for 5 seconds to display the following device setting icon. Click the icon to enter the device setting interface. The following chapters introduce the device configuration functions.



Figure 5.1 Device settings icon

5.2. Settings Menu

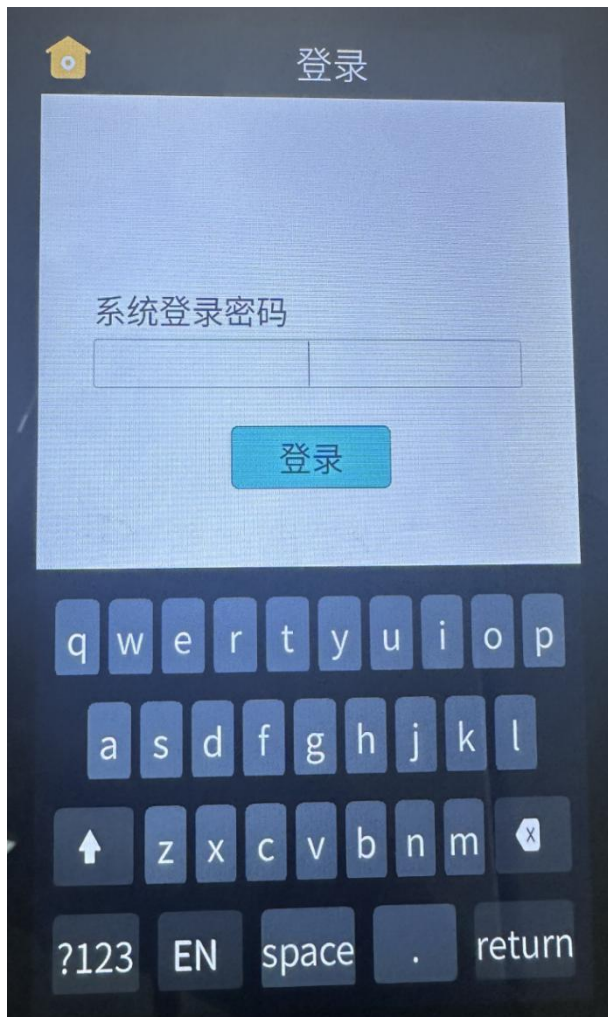


Figure 5.2 Device login interface

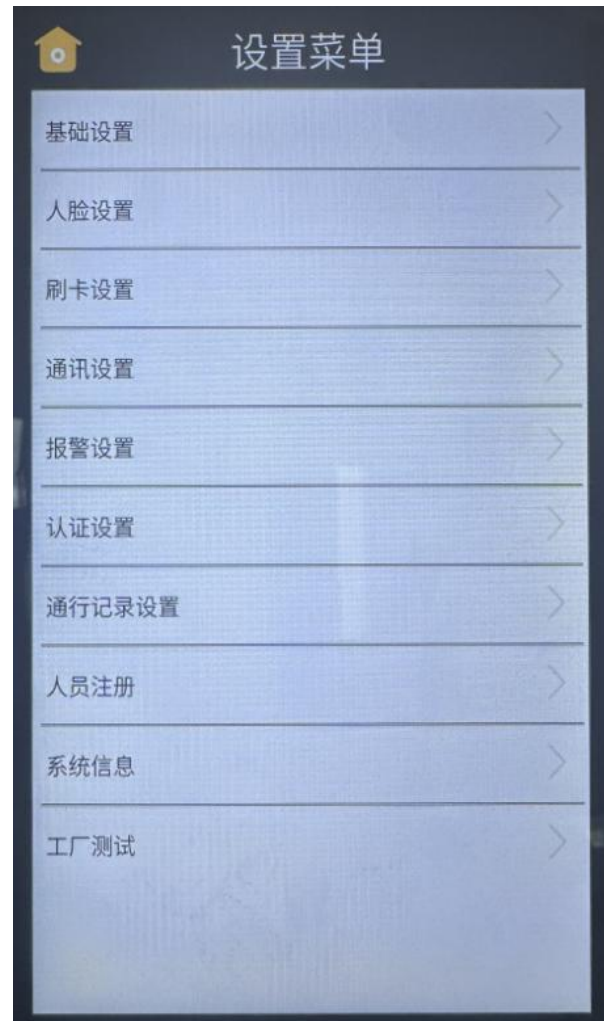


Figure 5.3 Device settings menu interface

5.3. Network Settings

- ①Click "Communication Settings";
- ②Click "Network Configuration";
- ③Select “Network Type” to set the network parameters.



Figure 5.4 Communication configuration interface

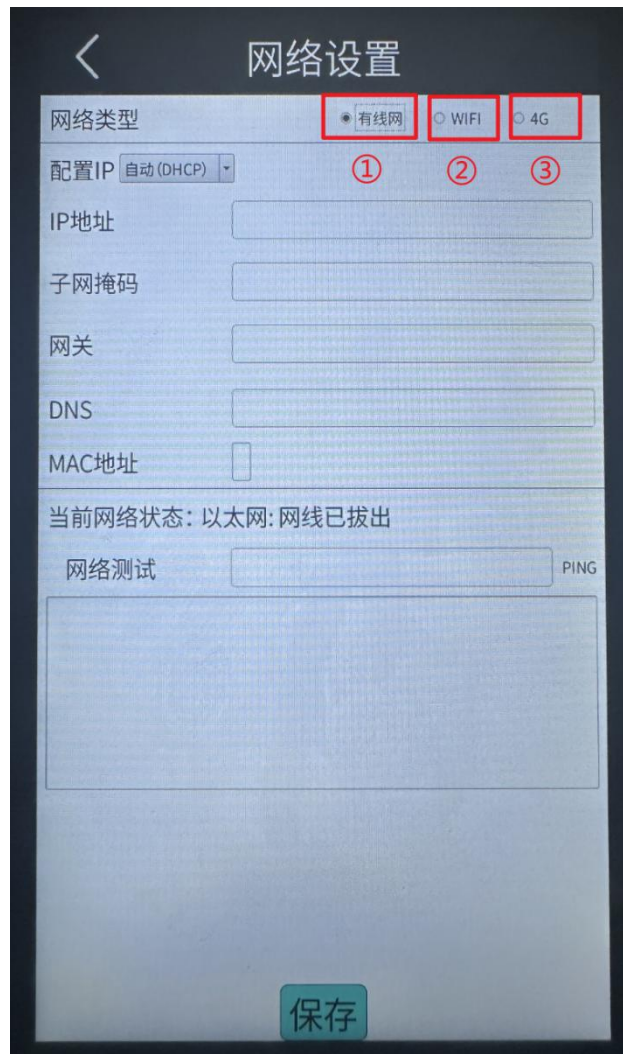


Figure 5.5 Network settings interface

5.4. Basic parameter settings

- ① Screen-related parameter settings, including screen brightness, screen-on time, whether related information is selected, etc.;
- ② Device volume settings;
- ③ Device name setting.

5.5. Authentication Settings

①Select authentication mode (scanning code is not supported yet);



Figure 5.6 Basic configuration interface

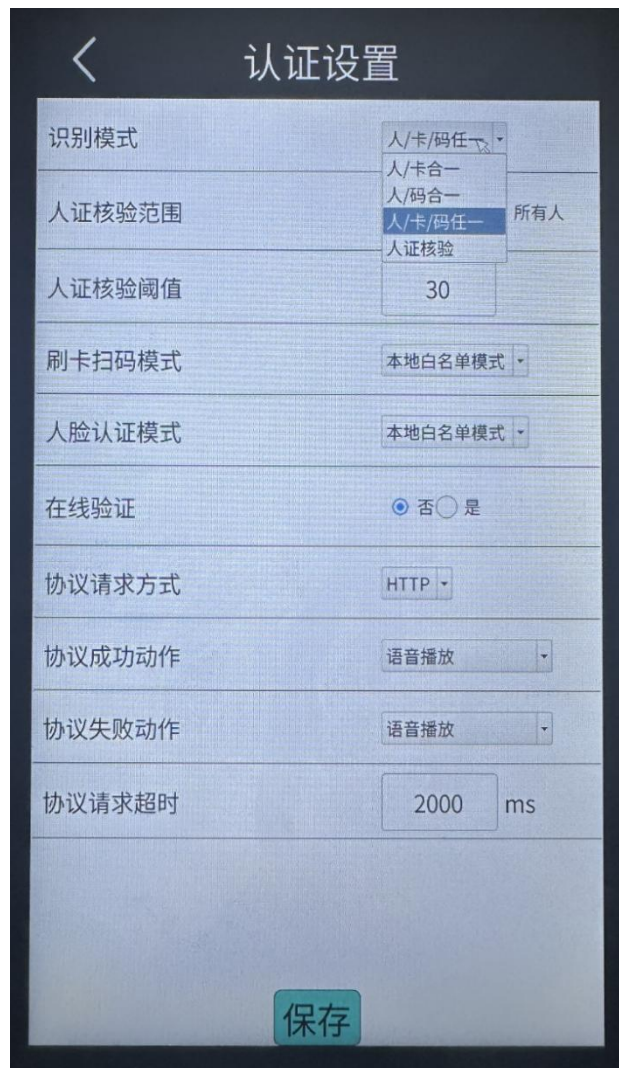


Figure 5.7 Authentication settings interface

5.6. Face parameter setting and personnel registration

- ①Set facial parameters and voice feedback tone as required;
- ② Click "Register". The device can only register one person. You can use the WEB tool to register in batches.
- ③Enter ID number/name, ID number is optional according to needs;
- ④ Enter the personnel registration interface. When detecting the face, please make sure that the

face is in the center of the registration frame as much as possible. The registrant should look directly at the camera and remain still, waiting for the device to complete the registration;

⑤ When the warning interface appears, please click Register again and register your face in strict accordance with the above requirements.

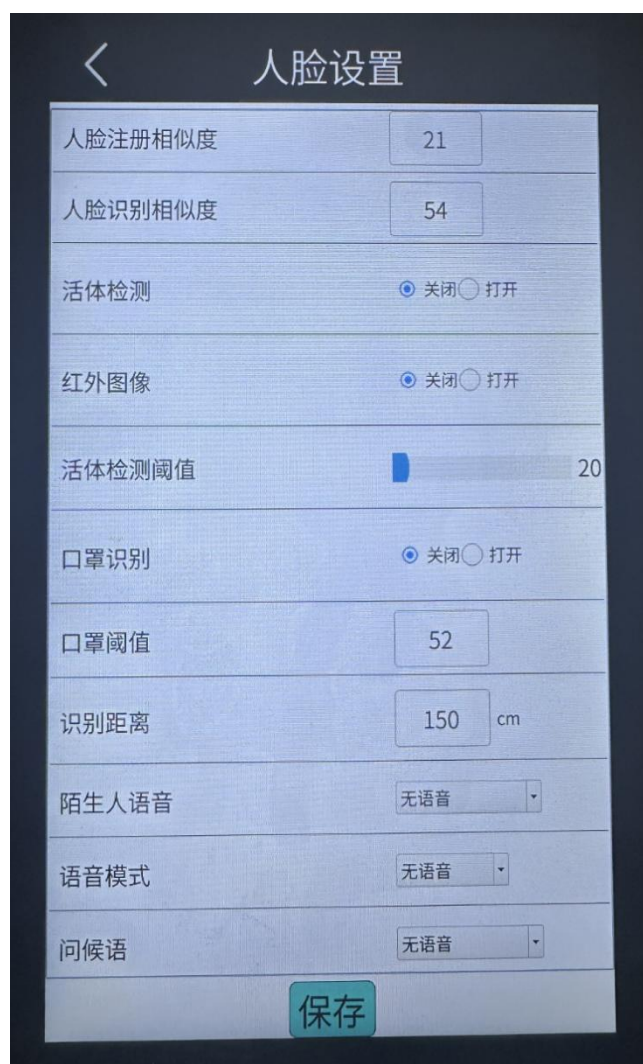


Figure 5.8 Face settings interface

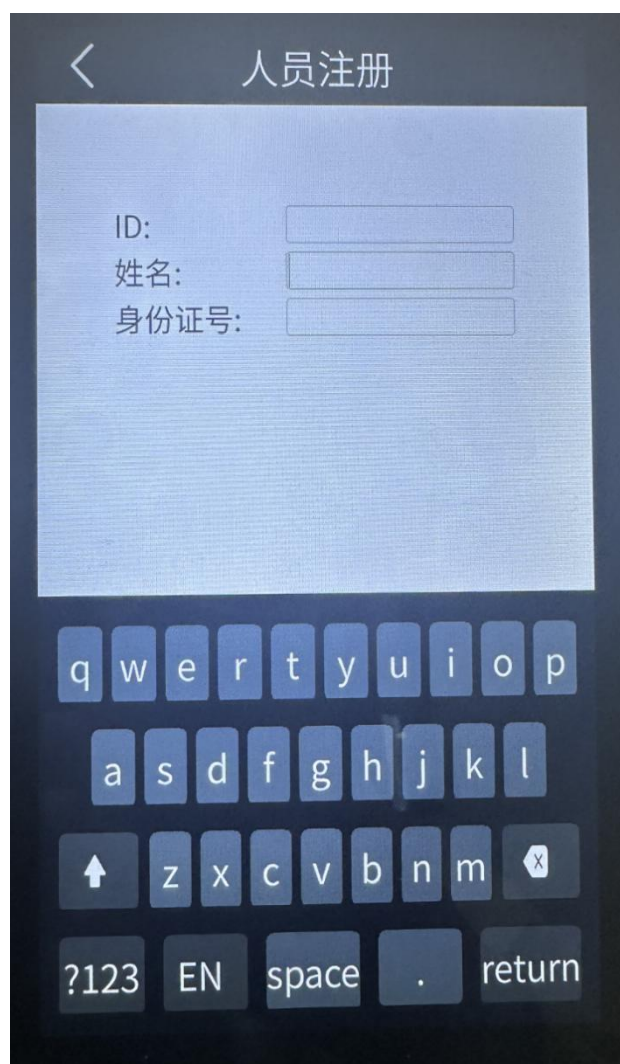


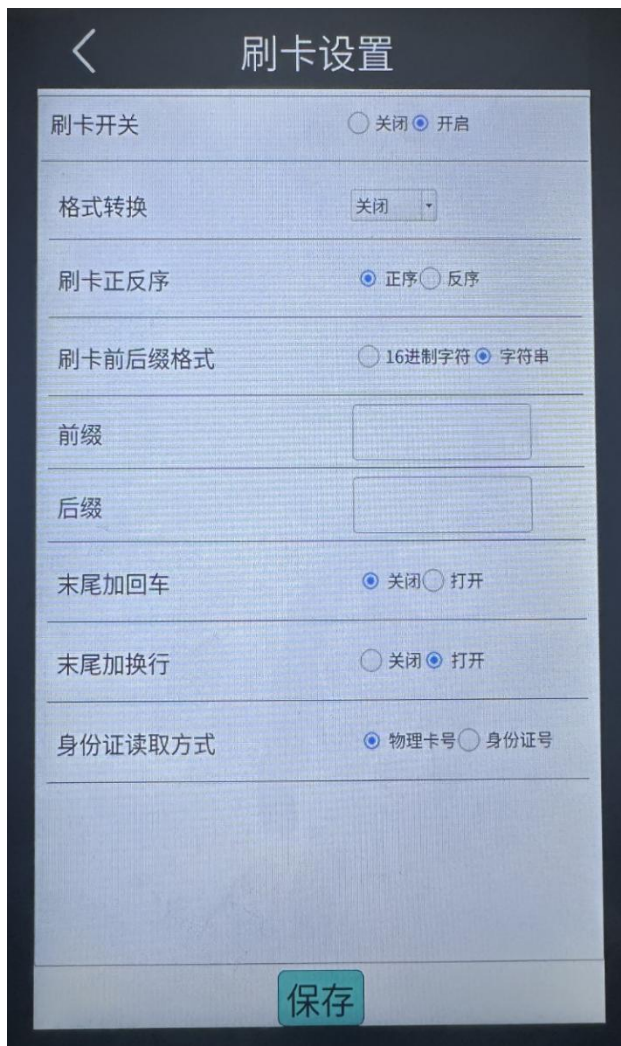
Figure 5.9 Personnel registration interface

5.7. Card Swipe Settings

①When using the card swiping function, you need to turn on the card swiping switch and set the output format;

②When using the cloud ID verification function, you need to select the ID card reading method.

5.8. System Information

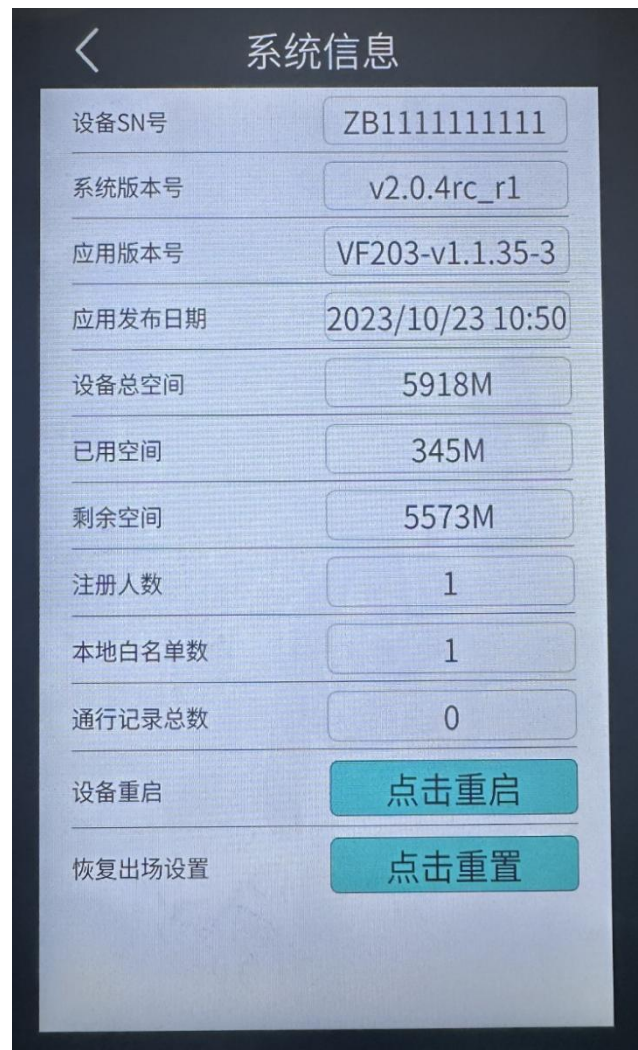


The screenshot shows the '刷卡设置' (Card Swiping Settings) interface. It features a list of settings with toggle switches and input fields. At the bottom, there is a '保存' (Save) button.

Setting	Value
刷卡开关	☐ 关闭 ☒ 开启
格式转换	关闭
刷卡正反序	☒ 正序 ☐ 反序
刷卡前后缀格式	☐ 16进制字符 ☒ 字符串
前缀	
后缀	
末尾加回车	☒ 关闭 ☐ 打开
末尾加换行	☐ 关闭 ☒ 打开
身份证读取方式	☒ 物理卡号 ☐ 身份证号

保存

Figure 5.10 Card swiping settings interface



The screenshot shows the '系统信息' (System Information) interface. It displays various system parameters in a list format. At the bottom, there are two buttons: '点击重启' (Click to Restart) and '点击重置' (Click to Reset).

Item	Value
设备SN号	ZB1111111111
系统版本号	v2.0.4rc_r1
应用版本号	VF203-v1.1.35-3
应用发布日期	2023/10/23 10:50
设备总空间	5918M
已用空间	345M
剩余空间	5573M
注册人数	1
本地白名单数	1
通行记录总数	0
设备重启	点击重启
恢复出场设置	点击重置

Figure 5.11 System information interface

6. Mobile phone instructions

The facial recognition integrated machine is sold with the access control management applet "My Door Key" to realize the functions related to access control management. In addition, FCV5003 is connected to the multi-string office management platform. If you need more platform-related open information and access to private access control software, please contact the staff.

The following is the link to the My Door Key Mini Program. If you have not registered, please follow the instructions on the page to register. For detailed instructions on the Mini Program, please refer to the official website instructions.



picture7- 1 My Portkey Link

7. WEB end instructions

7.1. Network Configuration

① The device defaults to Ethernet. When the face recognition device is successfully connected to the network, the network icon will be displayed in the upper right corner of the screen, the device IP will be displayed in the lower right corner, the system time will be displayed in the upper left corner, and the device SN will be displayed in the lower left corner.

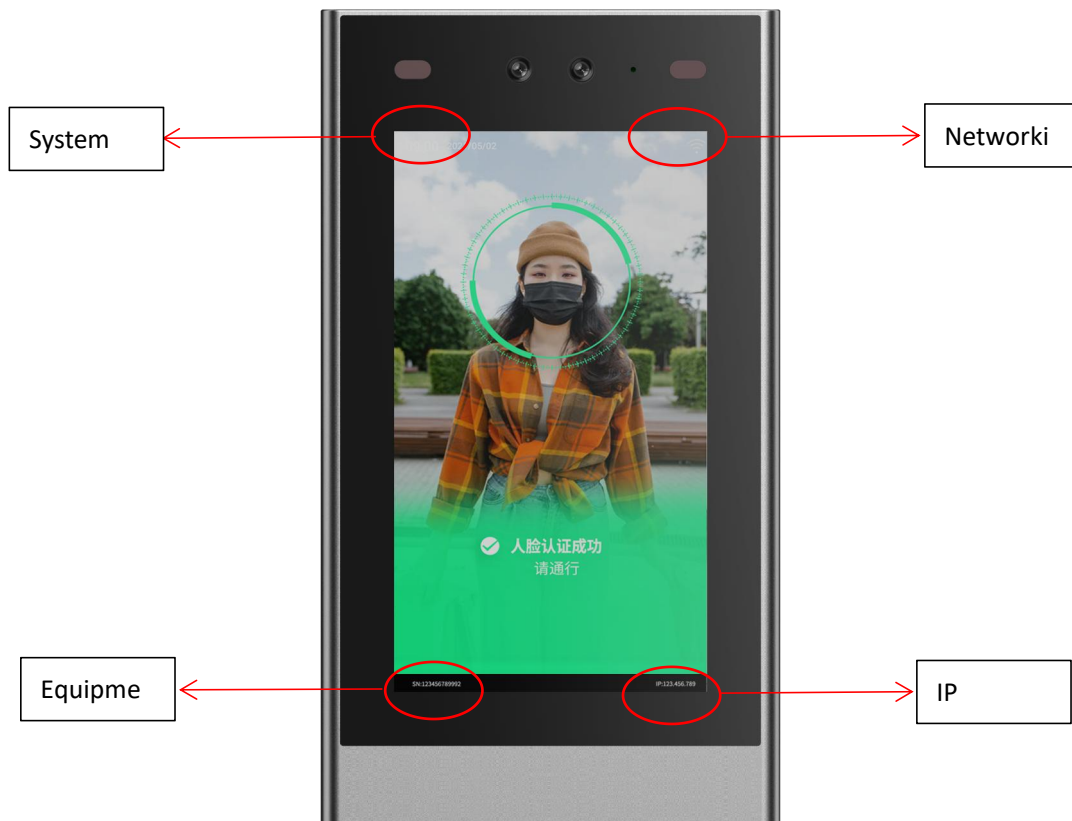


Figure 7.1 Device interface

7.2. WEB backend login

① Connect the computer and facial recognition device to the same network.

② Open the browser, enter `http://device ip address:8060/` in the address bar, press Enter, and you can enter the backend management interface. For example, the IP address obtained by the device is 10.102.106.124, enter the device address as follows, and press Enter.



Figure 7.2 WEB URL

③ Enter the background login interface, the login interface is as shown in Figure 7.3.

The default username is: admin. The default password is: password.

After successful login, the background prompts you to set the "Device Configuration Password", as shown in Figure 7.4.



Figure 7.3 Face recognition backend login interface



Figure 7.4 Password configuration interface

④ This configuration password is mainly used to set the code scanning working mode, as well

as equipment upgrades, factory restores, etc. Click OK to enter the device backend system.

⑤ Some functions of the WEB side are not currently compatible with FCV5003. Please refer to the following configuration steps for operation.

7.3. Basic Settings

7.3.1 Basic Configuration Introduction

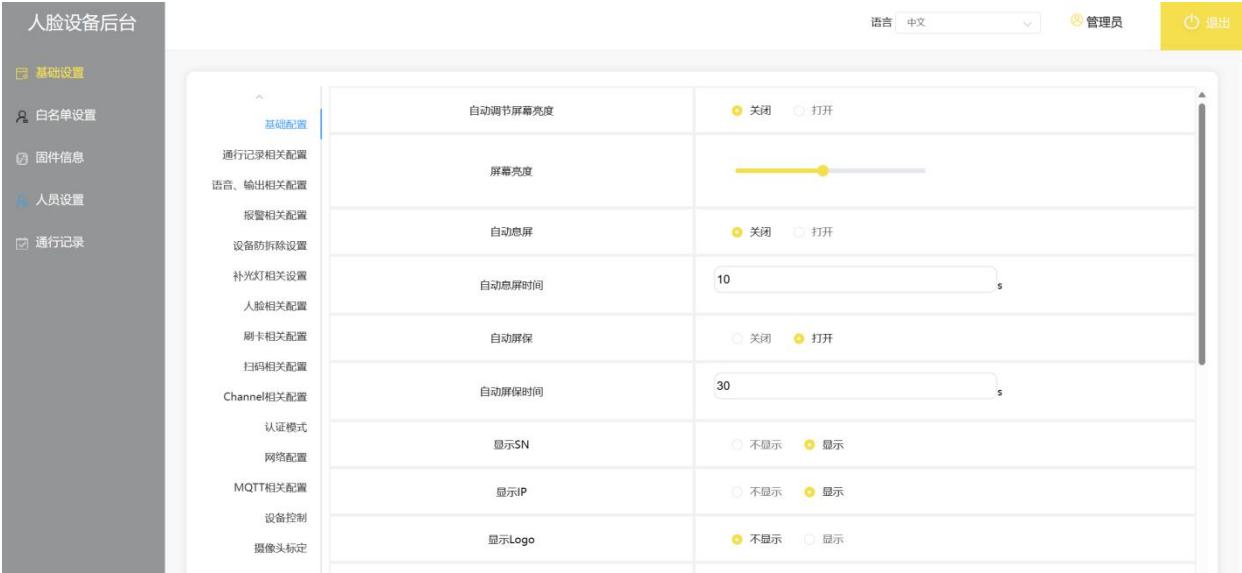


Figure 7.5

The configuration item description list is as follows:

Configuration items	default value	illustrate
Automatically adjust screen brightness	closure	Turn on/off automatic screen brightness adjustment
Screen brightness	80	Set the screen brightness value
Automatic screen off	Open	The screen turns off after a period of standby
Automatic screen off time	300 seconds	Screen off standby time
Automatic screen saver	Open	Enter the screen saver screen after a certain period of standby
Automatic screen saver time	30 seconds	Screen saver standby time
Display SN	show	Is the SN number displayed in the lower right corner of the screen?

Display IP	show	Is the device IP address displayed in the lower right corner of the screen?
Display logo	Do not display	Logo image in the upper left corner of the face recognition interface/in the middle of the screen saver
volume	60	Adjust the volume
Automatic update time	Open	Automatically update device time when connected to the Internet
Device Name	\	Naming the device

7.3.2 Traffic record related configuration

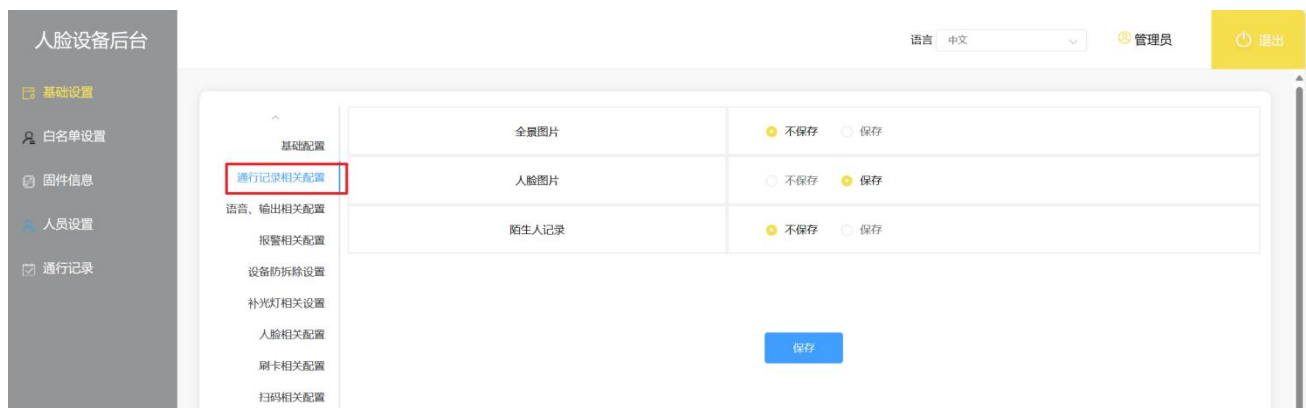


Figure 7.6

The configuration item description list is as follows:

Configuration items	default value	illustrate
Panoramic pictures	Do not save	Set whether to save the panoramic picture when scanning the face
Face pictures	save	Only save the face photo when scanning, which has a higher priority than the panoramic photo
Stranger Records	Do not save	Set whether to save stranger face scan records

7.3.3 Voice and output related configuration

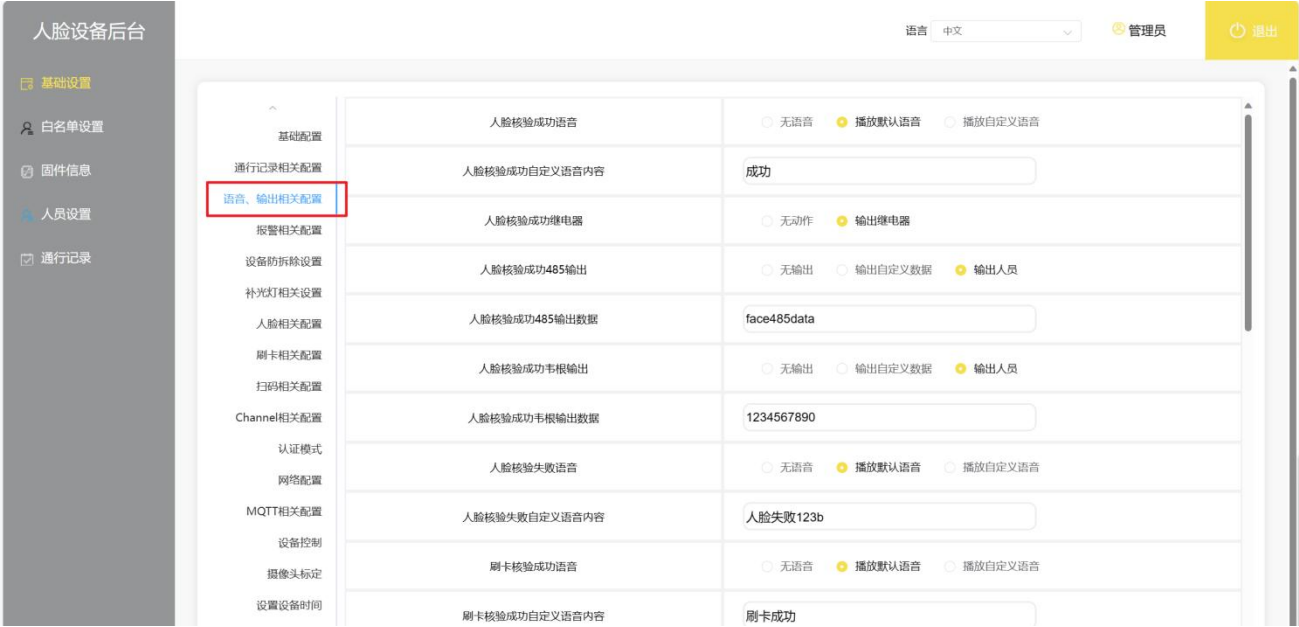


Figure 7.7

The configuration item description list is as follows:

Configuration items	default value	illustrate
Face verification successful voice	Play default voice	Set the voice feedback action when the face device successfully recognizes the face.
		Play custom voice:Not effective in protocol mode and development mode
Customize voice content after successful face verification	“Face verification successful”	Set custom voice content
Face verification success relay	Output relay	When the face recognition is successful, the output relay will be activated.
Face verification is successful 485 output	Output Person ID	Set the data content output by port 485 when face recognition succeeds
Face verification is	face485data	This option is effective when the previous

successful 485 output data		option "Export custom data" is selected.
Facial verification is successful and Wiegand output	Output Person ID	When face recognition is successful, the Wiegand port outputs data content. Personnel ID must comply with Wiegand 26 or Wiegand 34 specifications
Face verification is successful and Wiegand outputs data	1234567890	This option is effective when the previous option "Export custom data" is selected.
Face verification failed voice	Play default voice	Set the voice feedback action when the face recognition device fails.
		Play custom voice: Not effective in protocol mode and development mode
Customize voice content when face verification fails	"Face verification failed"	Set custom voice content

7.3.4 Alarm related settings

人脸设备后台

语言 中文 管理员 退出

基础设置

白名单设置

固件信息

人员设置

通行记录

基础配置

通行记录相关配置

语音、输出相关配置

报警相关配置

设备防拆除设置

补光灯相关设置

人脸相关配置

刷卡相关配置

扫码相关配置

Channel相关配置

认证模式

网络配置

MQTT相关配置

设备控制

摄像头标定

设置设备时间

禁用/启用

报警服务开关 ☒ 关闭 ☐ 打开

报警延时 30 s

报警信号触发类型 ☐ 与地断开触发 ☒ 与地短接触发 ☐ 不触发 (默认)

报警触发输出开关 ☐ 关闭 ☒ 打开

报警输出继电器 ☐ 关闭 ☒ 打开

报警韦根输出 0 (0:关闭)

485输出 ((内容为空表示关闭))

语音播放 ((内容为空表示播放默认语音))

保存

Figure 7.8

The configuration item description list is as follows:

Configuration items	default value	illustrate
Alarm service switch	closure	Set to turn on/off the face recognition device alarm signal trigger function
Alarm delay	3 seconds	The alarm trigger signal needs to last for 3 seconds to trigger the alarm voice
Alarm signal trigger type	Not triggered	Set the alarm trigger mode
Alarm trigger output switch	Open	Set the feedback action of the device after the alarm signal is triggered
Alarm output relay	Open	When the alarm signal is triggered, it will take immediate action
Alarm Wiegand output	closure	When the alarm signal is triggered, the Wiegand data is output immediately
485 Output	closure	When the alarm signal is triggered, 485 data is output immediately
Voice playback	Default Voice	When the alarm signal is triggered, the voice broadcast

7.3.5 Equipment anti-dismantling settings

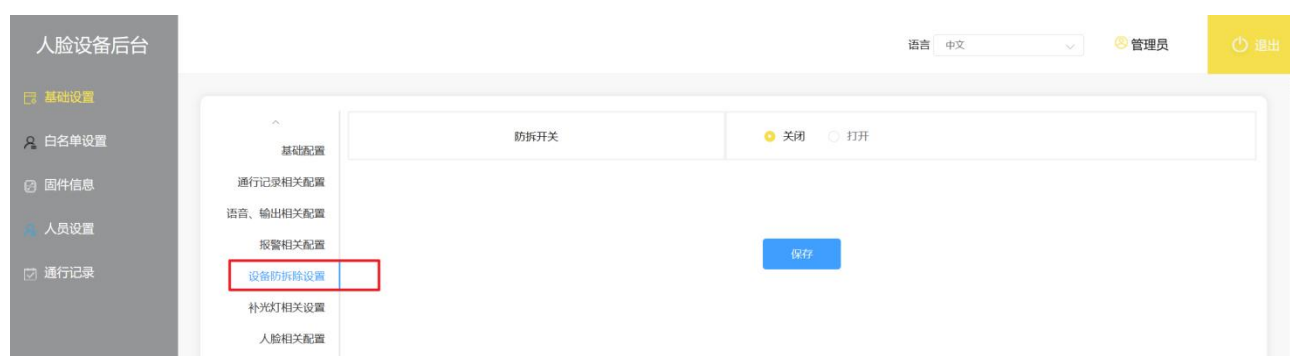


Figure 7.9

The device anti-tampering function is turned off by default. When it is turned on, an alarm will be triggered when the device is dismantled or powered on but not installed.

7.3.6 Face related configuration

The configuration item description list is as follows:

Configuration items	default value	illustrate
Face registration similarity threshold	50	When setting the face detection standard for registration, it is recommended to keep the default value. The larger the value, the stricter the detection.
Face recognition similarity threshold	54	When setting face scanning, face detection standard, it is recommended to keep the default value. The larger the value, the stricter the detection.
Open biopsy	Open	Set whether to enable the liveness detection function
Face recognition number configuration	1	Only supports identifying 1 person at a time
Face Recognition	Open	Set whether to enable the face recognition function
Infrared image	closure	Set whether to turn on infrared image, it is recommended to turn it off
Liveness detection threshold	10	Set the liveness detection standard. It is recommended to keep the default value. The larger the value, the stricter the detection.
Mask detection	closure	Check whether the personnel are wearing masks
Mask recognition	Open	When the person scanning the face wears a mask, turning this option on will help with successful recognition
Mask threshold	53	Set the detection standard for identifying faces of people wearing masks. It is recommended to keep the default value. The larger the value, the stricter the detection.
Identification	150cm	Set the maximum face recognition distance

distance		
Repeat recognition interval	1.5 seconds	Set the interval time for repeated face recognition
Identify timeout	1 second	Set the face recognition timeout
Repeat recognition switch	Open	Set whether to enable the face detection function
Stranger Voice	"Hello stranger"	Announcement when an unregistered face is recognized
Voice Mode	No Voice	Set the voice to be played when face verification succeeds
Greetings	No Voice	When the previous option is to play a greeting, select the type of greeting

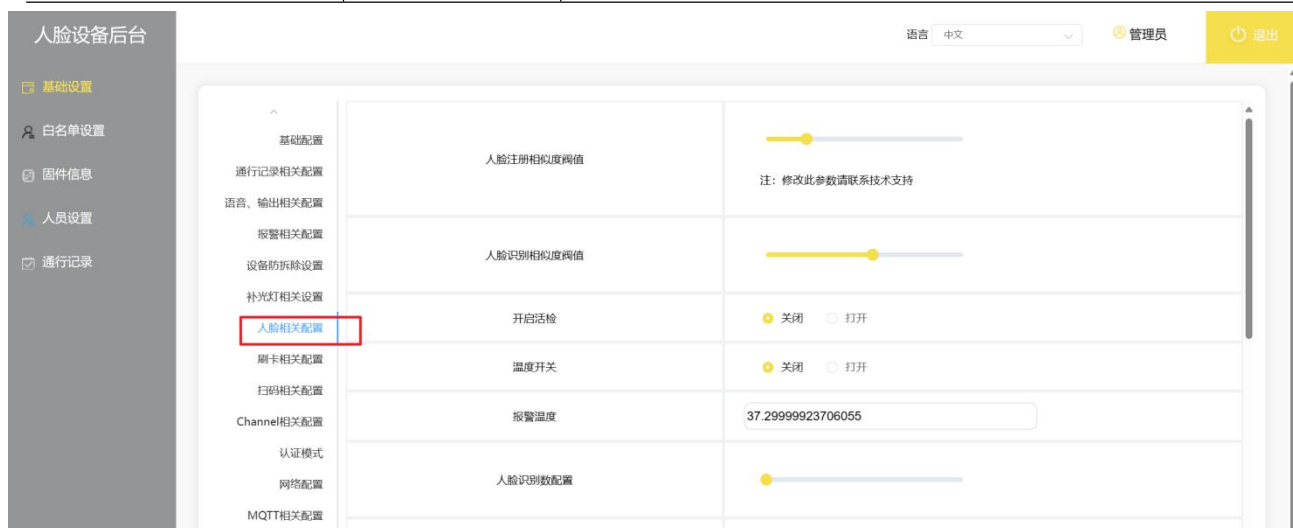


Figure 7.10

7.3.7 Card swiping configuration

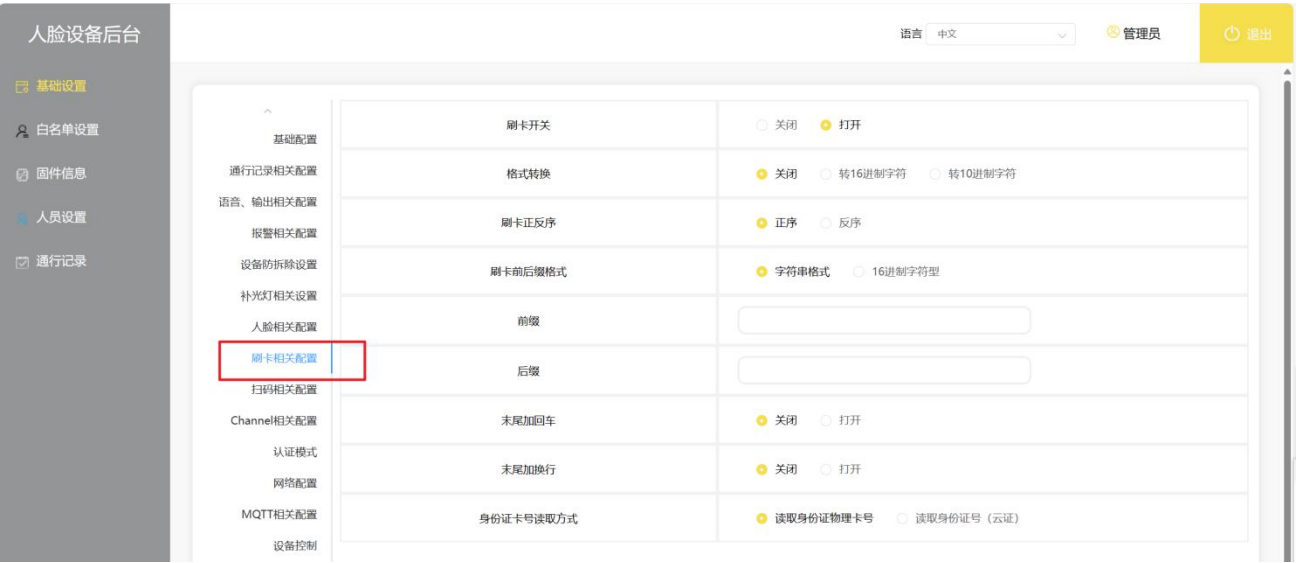


Figure 7.11

7.3.8 Channel related configuration

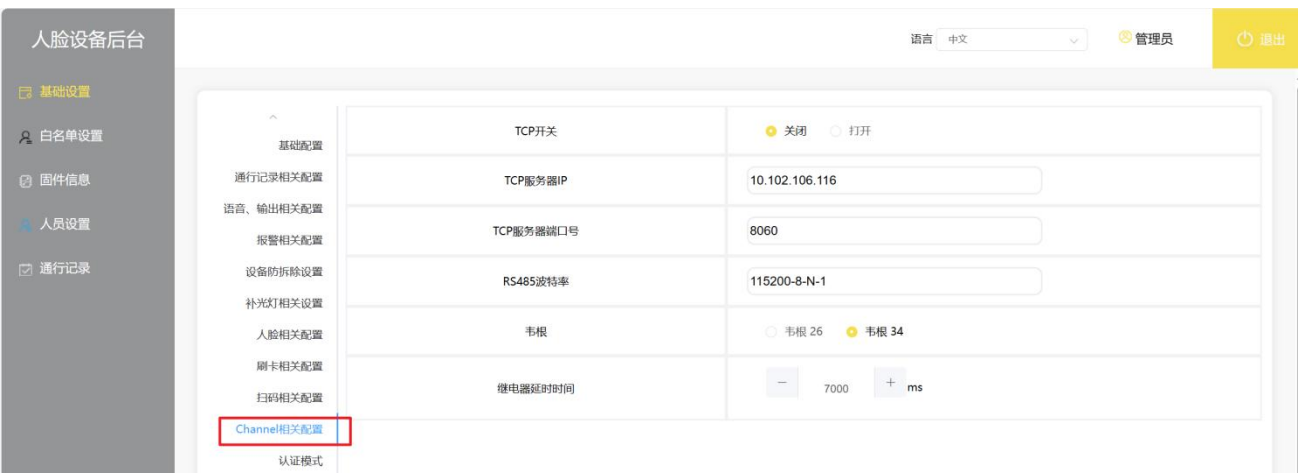


Figure 7.12

The configuration item description list is as follows:

Configuration items	default value	illustrate
TCP switch	close	Set whether to open the TCP transmission channel
TCP Server IP	\	Set TCP server IP
TCP server port number	\	Set the TCP server port number
RS485 Baud Rate	115200-8-N-1	Set 485 channel parameters

Wiegand	Wiegand 34	Set the Wiegand port protocol
Relay delay time	7000ms	Set the relay action holding time when authentication is successful

7.3.9 Authentication Mode



Figure 7.13

The configuration item description list is as follows:

Configuration items	default value	illustrate
Identifying patterns	Person/Card/Code	The other two items are not supported yet
Face recognition working mode	Transparent mode	Working mode (for face recognition 1: transparent mode, 2: protocol mode, 3: development mode, 4: local whitelist mode)
Online Verification	no	Valid when scanning QR code/swiping card or face recognition is in whitelist mode "Yes": Offline first "No": Offline only
Protocol Channel		Protocol channel (1: HTTP, 2: 485, 3: TCP) Note: When in development mode, this configuration is configured. The channel does

		not support HTTP in development mode. If HTTP is configured, TCP will be used by default.
Protocol verification success action		Protocol verification successful action (the corresponding bit is 1 valid, bit1: broadcast voice, bit2: output relay)
Protocol Verification Failure Action		Action when protocol verification fails (bit1: broadcast voice, bit2)
HTTP protocol callback address		HTTP protocol callback address
HTTP request timeout		HTTP request timeout in milliseconds

7.3.10 Network Configuration

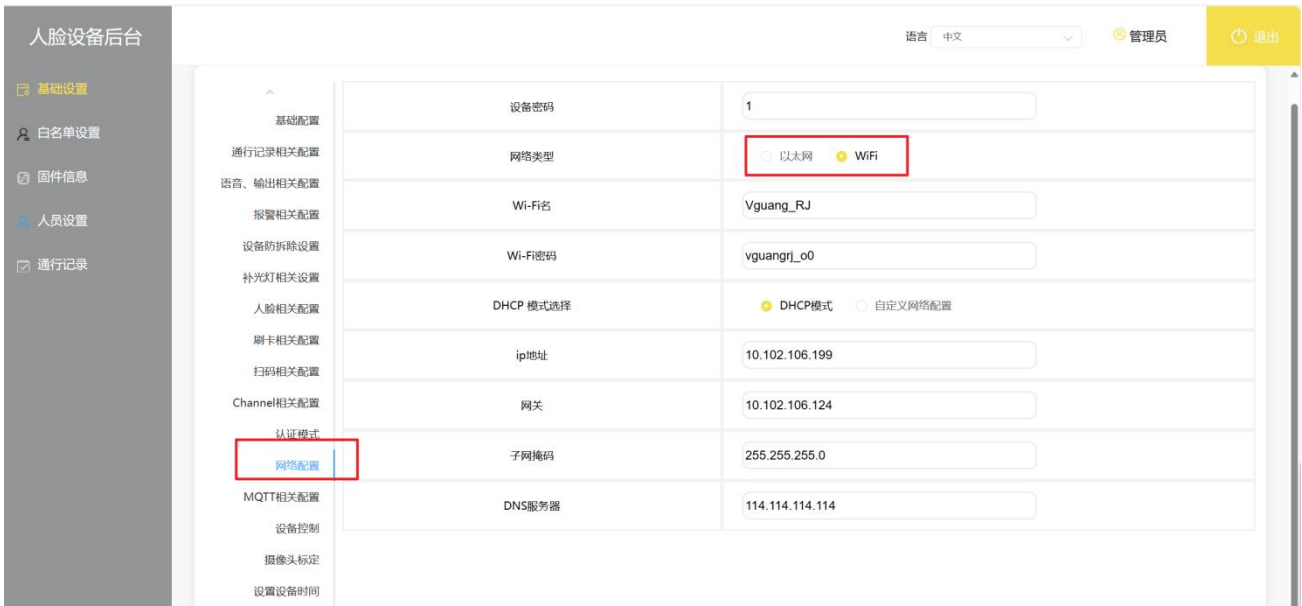


Figure 7.14

The configuration item description list is as follows:

Configuration items	default value	illustrate
Device password	Fill in the device password by default	The device password you set when you first logged into the system
Network Type	The configuration	Set up networking mode

	tool configuration shall prevail	
Wi-Fi Name	\	The wifi name that needs to be configured when setting the wifi mode
Wi-Fi Password	\	The wifi password you need to configure when setting the wifi mode
DHCP Mode Selection	DHCP	IP mode selection: Dynamic/Static
IP address	\	Configure when custom network configuration is selected
Gateway	\	Configure when custom network configuration is selected
Subnet Mask	\	Configure when custom network configuration is selected
DNS Server	\	Configure when custom network configuration is selected

7.3.11 MQTT related configuration

人脸设备后台

语言: 中文 管理员 退出

基础设置

白名单设置

固件信息

人员设置

通行记录

基础配置

通行记录相关配置

语音、输出相关配置

报警相关配置

设备防拆除设置

补光灯相关配置

人脸相关配置

刷卡相关配置

扫码相关配置

Channel相关配置

认证模式

网络配置

MQTT相关配置

服务器地址: 47.122.17.4:61713

客户端ID: ZB1111111111

用户名: admin

用户密码: password

主题前缀:

Qos: ☐ Qos0 ☐ Qos1 ☒ Qos2

保存

Figure 7.15

The configuration item description list is as follows:

Configuration items	default value	illustrate
Server address	0.0.0.0	Set the mqtt server address
Client ID	123456788	Setting the Client ID
username	admin	Set Username
User Password	password	Set Username
Subject Prefix	\	Set the topic prefix
Qos	Qos2	Set the QoS type

7.3.12 Device Control

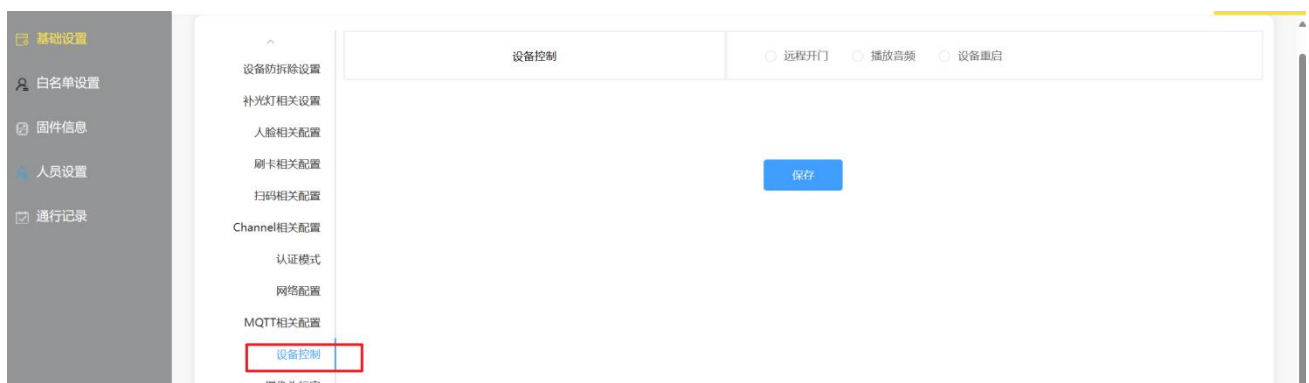


Figure 7.16

7.3.13 Camera Calibration

Note: This item is for device debugging and users are prohibited from using this function.

7.3.14 Set device time

This configuration item is to set the system time of the face recognition device.

7.3.15 Disable Enable

This configuration item is used to set up the device to disable/enable.

7.3.16 Password Change

This configuration item is used to set and modify the background login password and the device

configuration password.

7.4. Whitelist settings



Figure 7.17

1. Note: When the whitelist working mode is selected for QR code scanning or face recognition, the personnel IDs set in the whitelist can pass normally.
2. Operation steps:
 - ①Click Add
 - ② Select the person ID, user type, whitelist start and end time, and repetition type to be set as the whitelist.
 - ③ When the user type is selected as QR code, you need to generate a QR code according to the "Instructions for Use of Authorization Pass Code Mechanism".
 - ④When the user type is selected as face, the user ID is the person ID set when registering the face.

Figure 7.18

7.5. Firmware Information

This section is mainly used to upgrade the device or restore the device to factory settings.

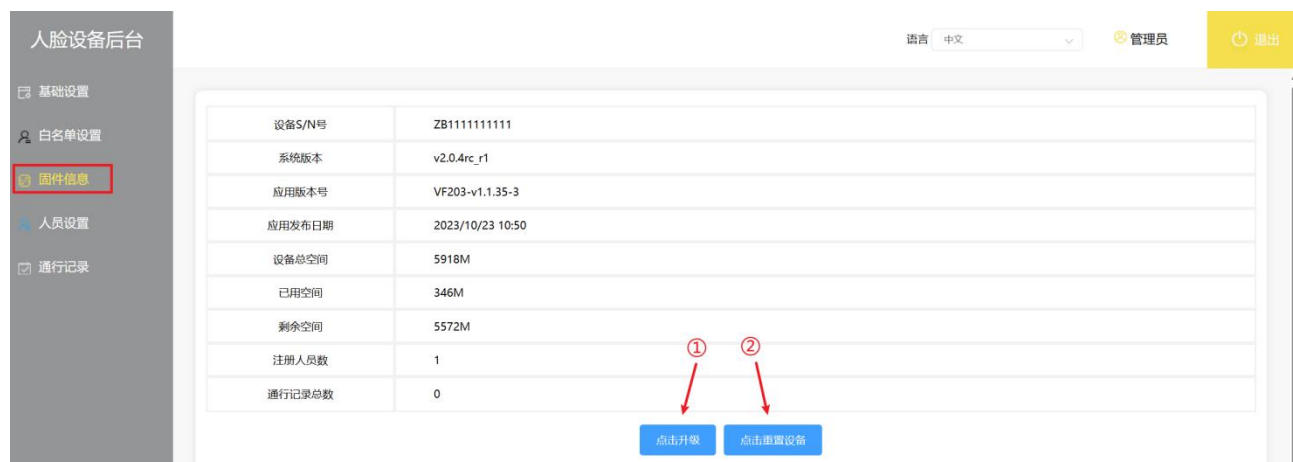


Figure 7.19

7.5.1 Firmware Upgrade

Steps:

- ①Click "Click to Upgrade";
- ②Contact the manufacturer to obtain the upgrade address and MD5 value;
- ③Enter the upgrade address and MD5 value and then upgrade.

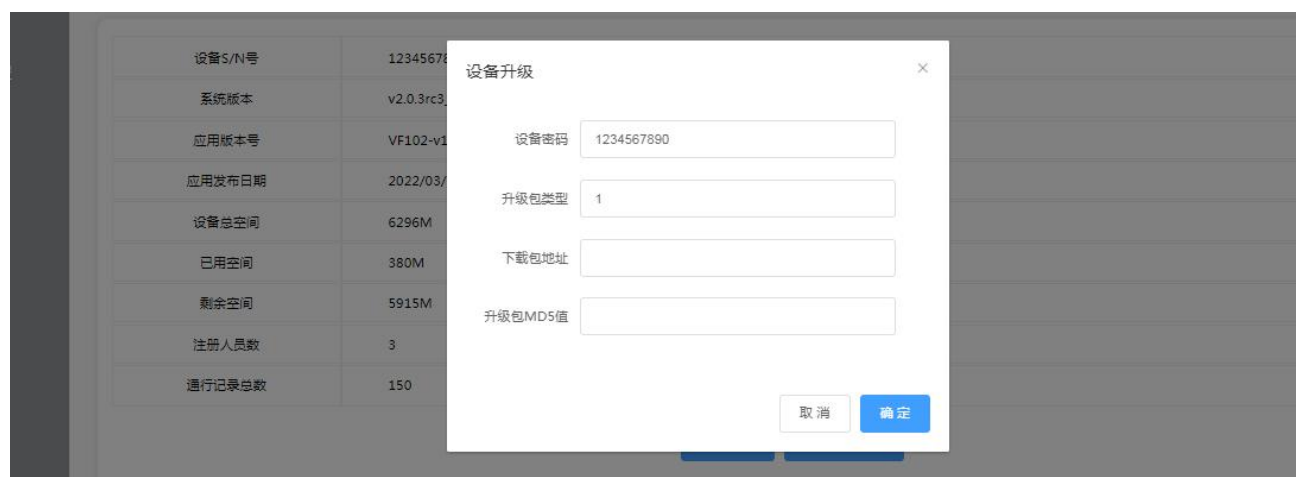


Figure 7.20

7.5.2 Reset Device

Steps:

①Click "Click to reset device";

②After entering the device password, click "OK" and the device will be restored to factory settings.



Figure 7.21

7.6. Staffing

7.6.1 Adding People



Figure 7.22

1. Add a single person operation steps

- ①Click "Add Person";
- ②Face pictures can be imported locally or by taking a photo;

添加人员

ID

姓名

部门列表

人员卡号

性别

请选择

权限

请选择

人脸图片：

☒ 本地导入

☐ 拍照录入

+

Figure 7.23

a. Local import

After filling in the personnel ID name (department and gender permissions are optional), click Local Import, then click the plus sign in the right frame to import the face photo.

b. Photo recording

After filling in the employee ID name (department and gender are optional), click Photo Import and the device will enter the photo mode. The employee scans his face and the device will be registered successfully.

2、Batch registration steps

- ①Click "Batch Import";
- ② Download the form template, and after making the form, import it.



Figure 7.24

7.7. Pass record

This item is used to query and delete access records and export access record tables.

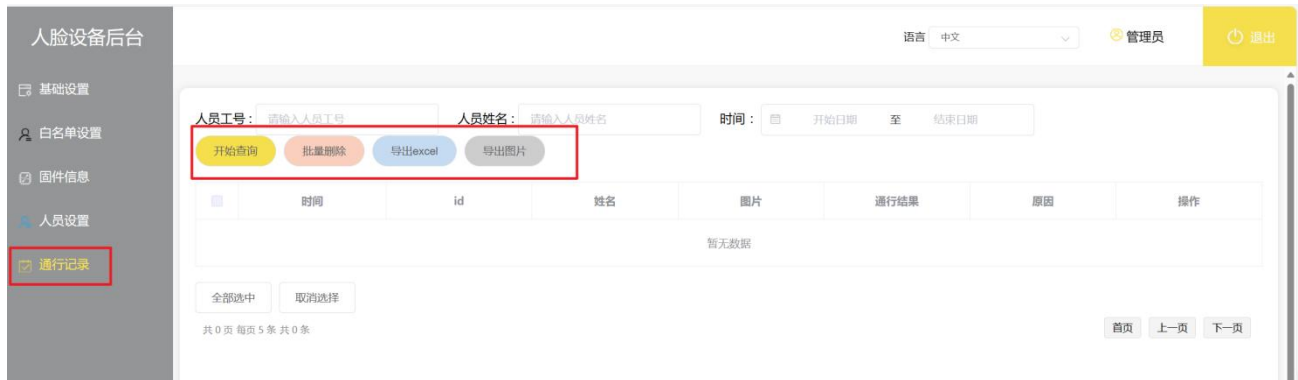
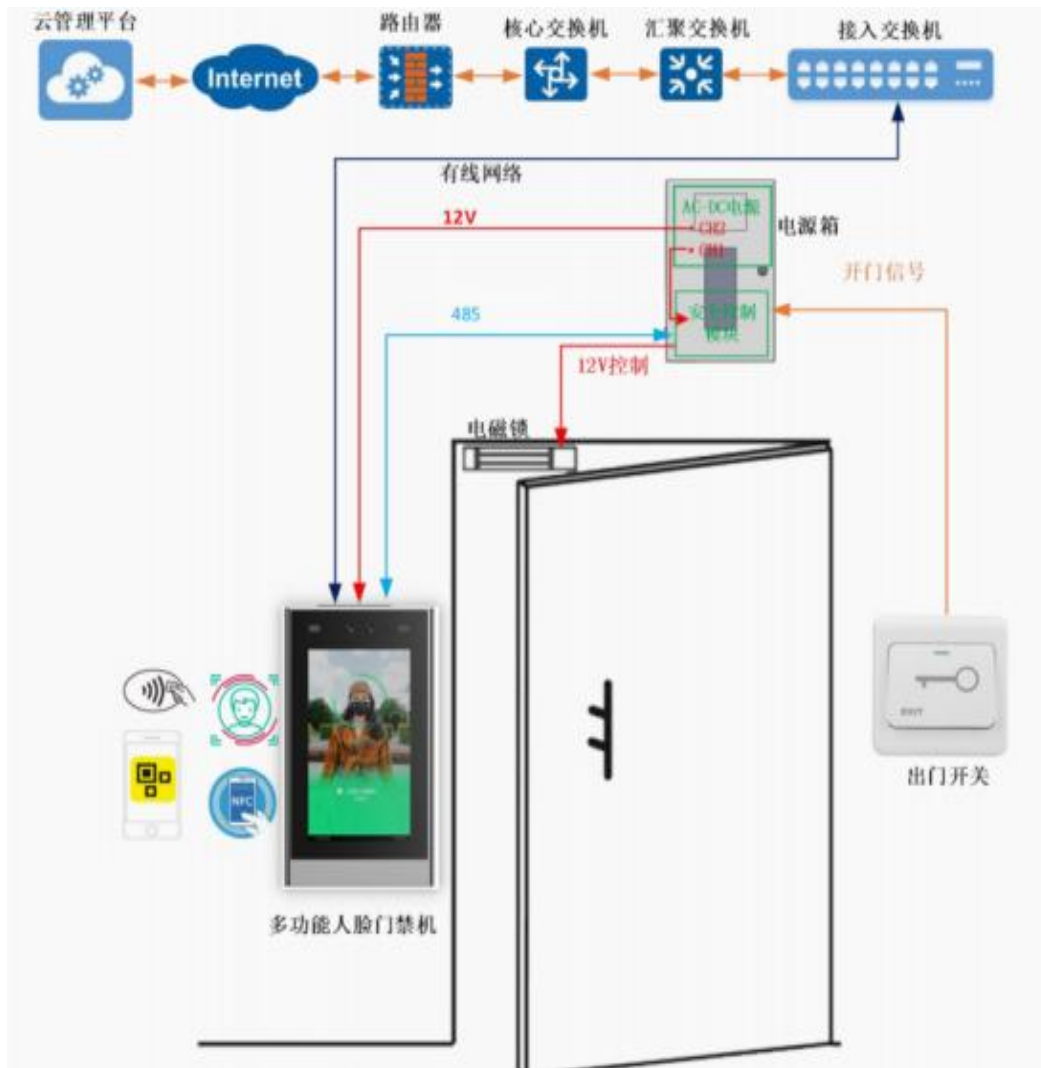


Figure 7.25

8. Application Scenario Introduction

8.1. Standalone use

This scenario mainly relies on the network and connects to the server through the network to achieve online verification.



Operation analysis:

- ① The device is connected to the server management software through the network port, and online verification of permissions is required;
- ② Connect the exit switch to a professional access control power supply (or choose to connect it to a device) to open the door by pressing it indoors;

- ③The equipment is connected to a professional access control power supply;
- ④The electromagnetic lock is connected to a professional access control power supply, and the door lock opens after the access personnel's authority is verified.

8.2. With safety module

In this scenario, the FCV5003 facial recognition integrated device and the security module form a more secure access control system. The FCV5003 connects to the server through the network to achieve online verification, and then communicates with the security module through the encrypted 485 protocol to achieve door lock control. The typical application is shown in the figure below. For more security applications, please refer to the FCA4900 product manual.

