

# V20 Face Recognition Setting Software V2.5

## User Manual



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## 1. Foreword

This document is the user manual for the V20 serial face recognition system. Thank you very much for using our company's products, we are pleased to provide you with the best service.

The contents of this manual will be updated regularly and the updated content will be added to the new version of this manual.

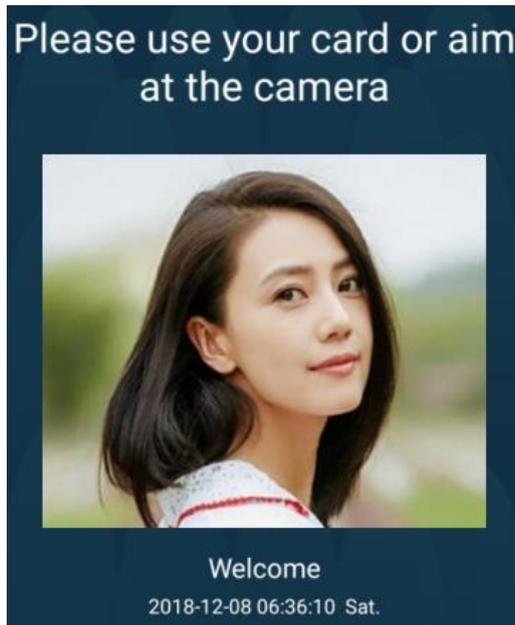
This document is intended to help users understand the use of product features.

## 2. System Introduction

The face recognition system function is divided into two parts: user interface and management interface. When customer uses it, only the user interface is displayed. Only by administrator verification can the background management interface(face recognition settings) be entered.

### 2.1 User interface(UI)

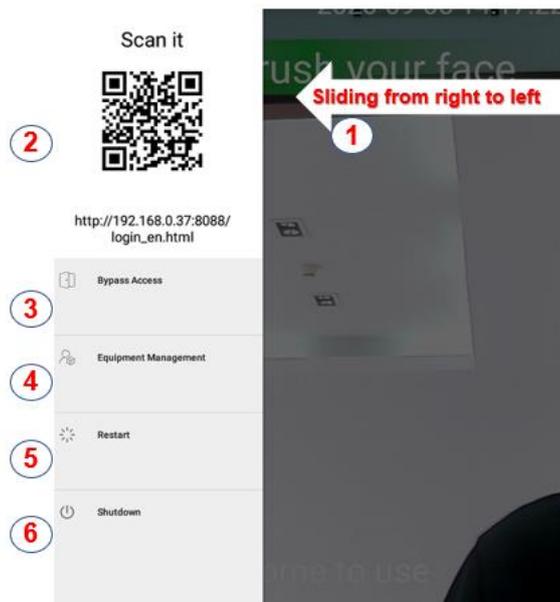
The main UI face recognition interface is as follows: The main UI only shows the camera to capture the video and compare the results after the pass!



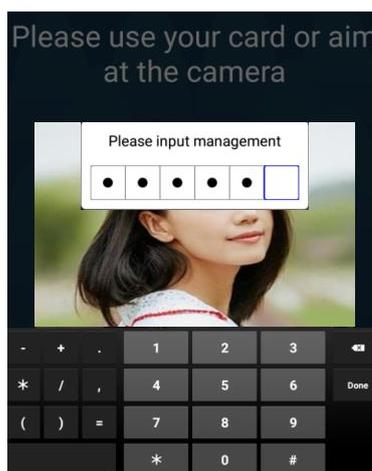
**(Tablet 8-inch touch screen version- user interface)**

**(Cylindrical 5-inch touchless screen version---please use mouse for operation)**

1.2 The function display of the bottom fast icon bar and the function of the quick icon are as follows:

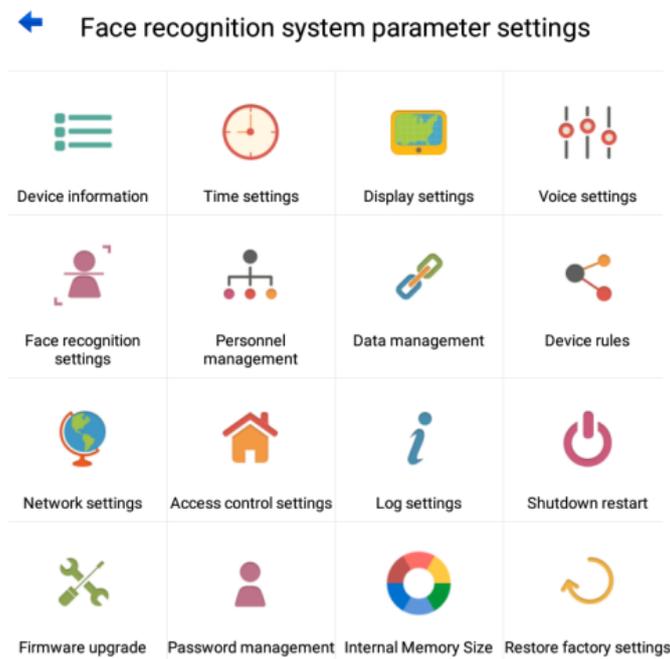


- ① In this area, sliding from right to left to display the bottom shortcut icon.
- ② Scan this QR code can enter phone configuration interface (phone need be same LAN with device).
- ③ Bypass access, when enter password can open gate directly.
- ④ Equipment management, after clicking, input the administrator password to enter face recognition settings interface. **Initial default password: 111111**, user can log in and modify the initial administrator password.



- ⑤ Restart, click and input administrator password to restart device.
- ⑥ Shutdown, click and input administrator password to close device.

### 3. Face recognition system general introduction



1. Device information: View basic information of the device, such as device name, SN number, and MAC address.

2. Time setting: Set the time and date of the device local, and automatically synchronize time with the server after networking.

3. Standby settings: Set device standby time and standby display information, available for photos/video advertisement.

4. General setting: Set UI screen display parameter.

5. Face Recognition Settings: Set the device's verification mode, living detection, resolution, recognition distance, threshold etc.

6. Personnel management: Manage the information of the registered personnel, and input personnel information separately or in batch.

7. Data Management: Manage identification records, which can query and export all record information.

8. Device Rules: Set device rules and personnel rules.

9. Network Settings: Set the network address of the device, which can be filled in manually or automatically.

10. Access control settings: Set Wiegand mode, as well as access control time and alarm function , you can manually open the door release.

11. Log setting: query operation.

12. Shutdown restart: Turn off the device or restart the device.

13. Firmware Upgrade: Set the upgrade mode of the device, which can be upgraded automatically or manually.

14. Password Management: Set the administrator password.

15. Internal memory size: view device storage space, usage capacity, etc.

16. Restore factory settings: Restore the default factory settings. (Restoring the

default factory settings will delete all data).

## 4. Face recognition settings interface

### 4.1 Device Information

You can view the basic information of the device, as shown below:

← Device information	
Device Name	Face Recognition Products
Device Model	8008DT
Serial Number	0196d7ba1479e509
Version Number	V3.2.20200904F1_T
Algorithm Version	V2.0+V3.0
MAC Address	18:93:7f:b4:11:b0
Device Type	Entry ▾

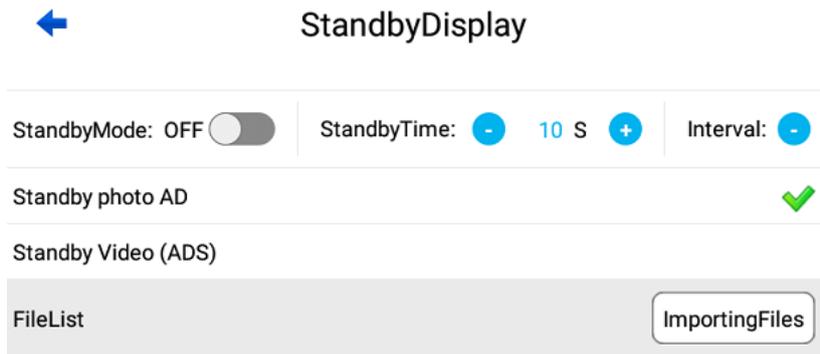
### 4.2 Time setting

Set the local time and date of the device, and automatically synchronize time with the server after networking, as shown below:

← Time settings	
<input type="checkbox"/>	Get network time
<input type="checkbox"/>	Manually update device time
<b>SAVE</b>	

### 4.3 Standby Display settings

This interface is for display settings during standby time, can be used for advertisement. OFF/ON button for standby mode. Set standby time, carousel interval, standby photo or video, can import files for advertiser photos or video, as shown below:



#### 4.4 General settings

This interface is used to set UI screen display parameter.

Set system language: currently support language: Chinese, English(United States), Korea, Japanese, Thai

Font color: set color of the font show on UI.

Show full names: if the person's registered full name will show on screen.

Light intelligent regulation: Intelligent light filling adjustment.

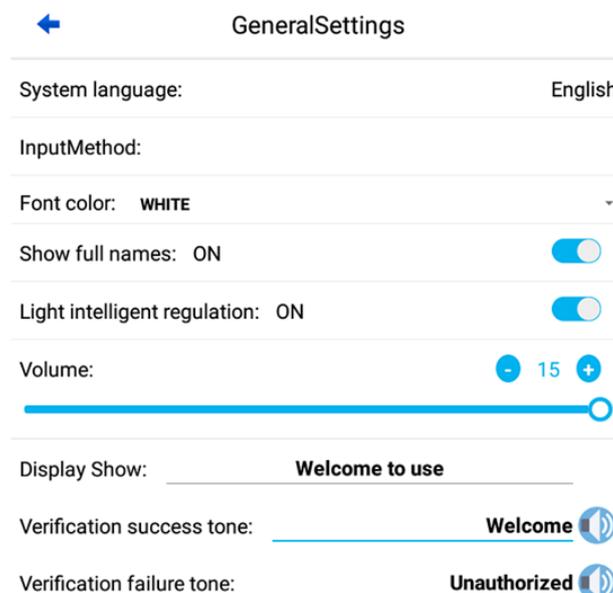
Volume: set sound volume, 0~15 adjustment

Display show: set words show on display.

Verification success tone: set verification success reminding words, system will change words to voice remind under none-temperature detection mode.

Verification failure tone: set verification failure reminding words, system will change words to voice remind under none-temperature detection mode.

All configuration will take effect after saving. As shown below:



## 4.5 Face recognition settings

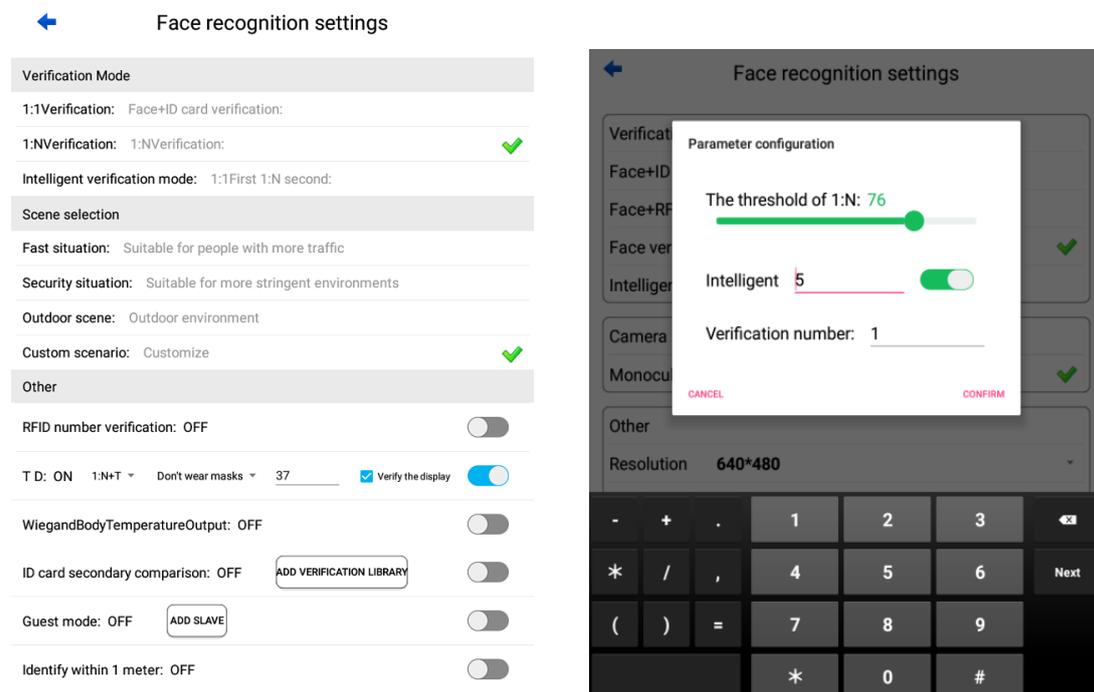
According to the security level requirements, different scenarios are selected, and the threshold, resolution, and recognition distance settings are respectively set.

### Verification mode

#### 1: N face verification mode:

The factory default 1:N face verification mode, threshold 80, which can be adjusted according to the actual environment.

Consider the security level, threshold setting suggested: all indoor recommended: 85-90, semi-outdoor recommended 80-88, outdoor recommended 75-85, as shown below:

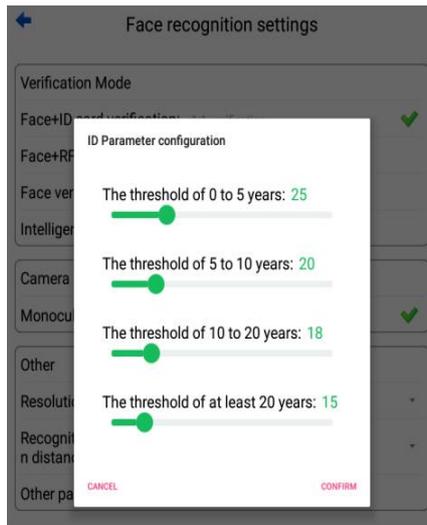


#### 1:1 RFID card verification mode(device have to be with RFID module)

RFID card and face recognition together for verification.

All factory default settings are suggested, threshold 80,

Below interface is for Chinese ID card reading module, user can ignore it:



### Intelligent verification mode

when swipe RFID card 1:1 mode in priority, or 1:N mode

### Scene selection

**Fast situation:** parameter setting suitable for heavy people flow scene (default).

**Security situation:** parameter setting suitable for high security requirement environment.

**Outdoor scene:** parameter setting suitable for outdoor environment.

### Custom scenario:

**Note:** Face quality default 50, face credibility default 51, other parameters remain default, non-technical personnel modification is not suggested.

- a. Pixel of eye: it is used to configure recognition distance, the smaller of eye pixel, the longer of recognition distance.
- b. Fail number: filter time of the same person, after how many times identification failure will it be reported, to prevent strangers from continuously reporting failure, the recommended setting is: 3.
- c. Succ interval: filter time of the same person: After the success of the same person, how long will he/she be recognized again. Prevent whitelisted person from continuously reporting successful tips. The recommended setting is: 3000.

The default settings are as follows:



### Other Parameter

**RFID number verification:** when this mode is on, device only verify the RFID card, no face comparison.

### TD (Temperature Detection):

**Face+ T:** default in face+T mode, under face+T mode system does not comparison face just measure temperature after detecting living face.

**1: N+T:** means 1: N face recognition temperature measurement, system will measure temperature as well as verify face with registered database.

**1:1+T:** means face recognition +ID card verification+ temperature measurement, only person registered and swipe ID card get temperature measurement.

**Don't wear masks:** no need detecting face masks wearing

**To wear a mask:** detecting masks wearing, remind if people doesn't wear a mask.

**Temperature threshold:** default 37.2°C, if detected temperature higher than this, system will sound alert., if enable "verify the display", system will add voice reminding "abnormal".

To get accurate temperature measurement, it is suggested to verify face within 2m range.

### Guest Mode

Guest mode is mainly used for front desk or so, for visitor registration.

When guest mode on, go back to main UI, show as below:

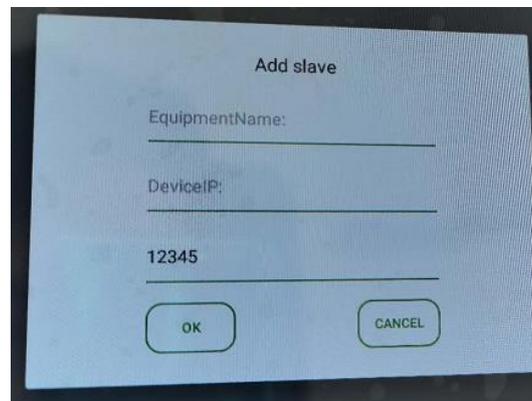
After choose visitor registration, there is ID card registration and face registration options.

For ID card registration now support only Chinese ID card registration.

For face registration just scan face and input relevant information.



Add slave, input device name (can be any) and IP address of device that need be as slave, System will send visitors information to these IP,

The image shows a screenshot of a dialog box titled 'Add slave'. It has a light blue background. At the top, the title 'Add slave' is centered. Below the title, there are two input fields. The first is labeled 'EquipmentName:' and has a horizontal line below it. The second is labeled 'DeviceIP:' and has the text '12345' entered below it. At the bottom of the dialog, there are two buttons: 'OK' on the left and 'CANCEL' on the right.

#### **Identify within 1meter**

After set this parameter on, device will only start face verification in 1meter range.

#### **4.6 Personnel management**

Manage the comparison personnel information, which can be added individually, batch import from U disk, or background server sending/delete/synchronize personnel information, as shown below:

PersonnelManagement Person:4

Add personnel
Batch operation

All
🔍

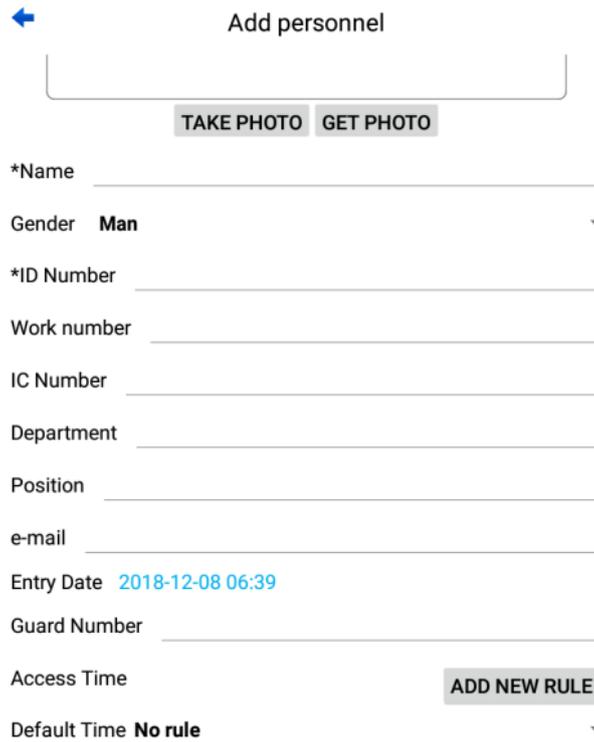
Picture	Name	ID Number	IC Number	operation
	uo	tt	a706f218	
	李总	123456		
	lisa	134		
	Test	123	12345667	

Click “Add Personnel” to enter the personnel information individually, and enter the basic information of the person as prompted to save, as shown below:

**Note:** Photographs can be taken by the camera on the spot, also you can copy personnel photos in batch through U disk.

**Name, ID number \*: is mandatory!** If with RFID card (IC number), the IC number is 8 digits, 0-9, A-F, default in Wiegand 34 output.

Default time: no rules, if add new rule, can set time rules for the registered person(mainly used for time attendance)



← Add personnel

TAKE PHOTO GET PHOTO

\*Name \_\_\_\_\_

Gender **Man** ▾

\*ID Number \_\_\_\_\_

Work number \_\_\_\_\_

IC Number \_\_\_\_\_

Department \_\_\_\_\_

Position \_\_\_\_\_

e-mail \_\_\_\_\_

Entry Date 2018-12-08 06:39

Guard Number \_\_\_\_\_

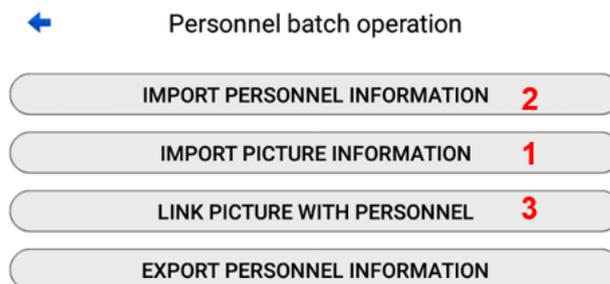
Access Time \_\_\_\_\_ ADD NEW RULE

Default Time **No rule** ▾

Click “batch operation” to import multiple people pictures and personnel information through the USB disk, as shown below:

1. Import pictures information
2. Import personnel information
3. Link picture with personnel

**Note:** Step 3 is very necessary. The picture and personnel information format please refer to “U disk importer picture and personnel information example”.



← Personnel batch operation

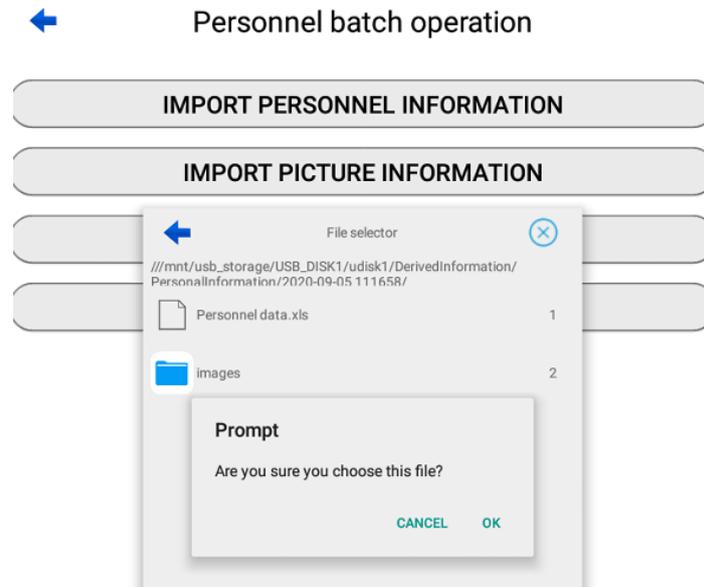
IMPORT PERSONNEL INFORMATION **2**

IMPORT PICTURE INFORMATION **1**

LINK PICTURE WITH PERSONNEL **3**

EXPORT PERSONNEL INFORMATION

Long press the file to start input, please note the images have to be in jpg format.



If there is slave devices, after click “[synchronize](#)”, all informatino will be sent to the slaves devices as well.

#### 4.7 Data Management

This interface is used to manage the identification records, query and export all the record information, export the personnel data and export the data to outside U disk.

You can set the time period to view, search, export, delete the identification record, etc., as shown below:

**Data management** Record sum:0

Please enter identification number

Select Time Period: 2020-09-01 00:00 — 2020-09-30 23:59

Query Result Selection: **Success**

QUERY RECORD EXPORT RECORD DELETE RECORD

Capture	Inbound	Time	Name	ID/IC	Result	Score

PGUP PGDN 1 / 1 GO Export Type **Patternless**  SaveFailedPhc

Select time period: choose the records time period to check.

Query result selection: choose to query different records: verification succeed ,verification failure, uploaded(succeed), uploaded(failure), All.

#### Export type:

Standard: upload all records to BS server with original picture, default mode.

Economical: upload only the verification succeed records to BS server.

Attendance: complete offline attendance mode, do not upload any records.

Patternless: upload only personnel information without pictures.

## 4.8 Device rules

Device Rules: Set device pass time rules. Mainly for time attendance purpose.

Select "Device Rules" and click "Add Device Rules" to add device rules, as shown below:

Note: Set device rules; set the device's passing time rules. Rules can also be deleted after adding a device rule.

The rules of the personnel are the same as those of the device rules.

←
New rule
Delete

---

Name
Device rules

---

Effective Cycle

Select All

Mon

Tue

Wed

Thu

Fri

Sat

Sun

---

Effective Time

Start time

23	59	59
<hr/>		
00	:	00
<hr/>		
01	:	01
<hr/>		
23	59	59
<hr/>		
00	:	00
<hr/>		
01	:	01
<hr/>		
23	59	59
<hr/>		
00	:	00
<hr/>		
01	:	01

End time

23	00	59
<hr/>		
00	:	01
<hr/>		
01	:	02
<hr/>		
23	59	59
<hr/>		
00	:	00
<hr/>		
01	:	01
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23	59	59
<hr/>		
00	:	00
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01	:	01

SAVE

#### 4.9 Network Settings

Set the wired/wireless network address of the device, you can choose static mode (manual configuration) and dynamic mode (automatic acquisition), as shown below:

Click "Set WIFI", select a valid wifi, enter the WIFI password to connect,

**Note:** WIFI may not available for some mode.

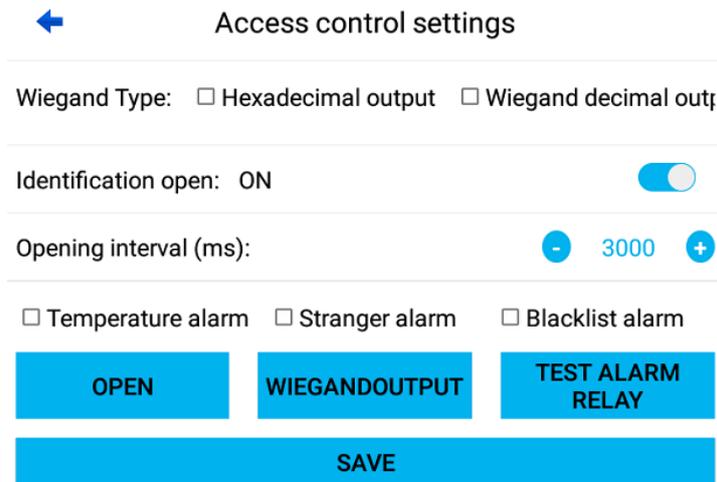
Server IP address: once device is added by b/s server, this place will be filled automatically. User can also fill with server address and port number if know.

Upload card info/ upload face info: if these functions on means server will do the comparison and return result to device.

Heart beat: if on device will request to sever every 60seconds,

#### 4.10 Access Control Settings

This interface is for gate access control setting, if device is connected to gate controller user can set parameter here, including Wiegand, relay output.



Wiegand type: default Wiegand 34, is an output function.

Identification open: default on, once face verified, device output relay.

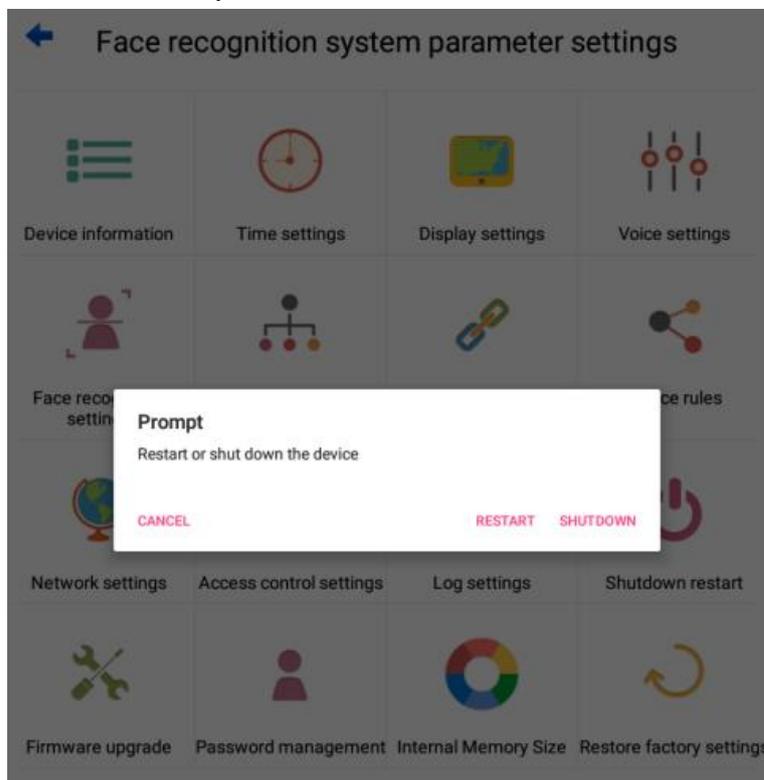
Opening interval: the relay output time.

Open: “Always on”: gate is always open, “Always off”: close always on function. “Open” open gate once.

[The door can be opened remotely by from BS software.](#)

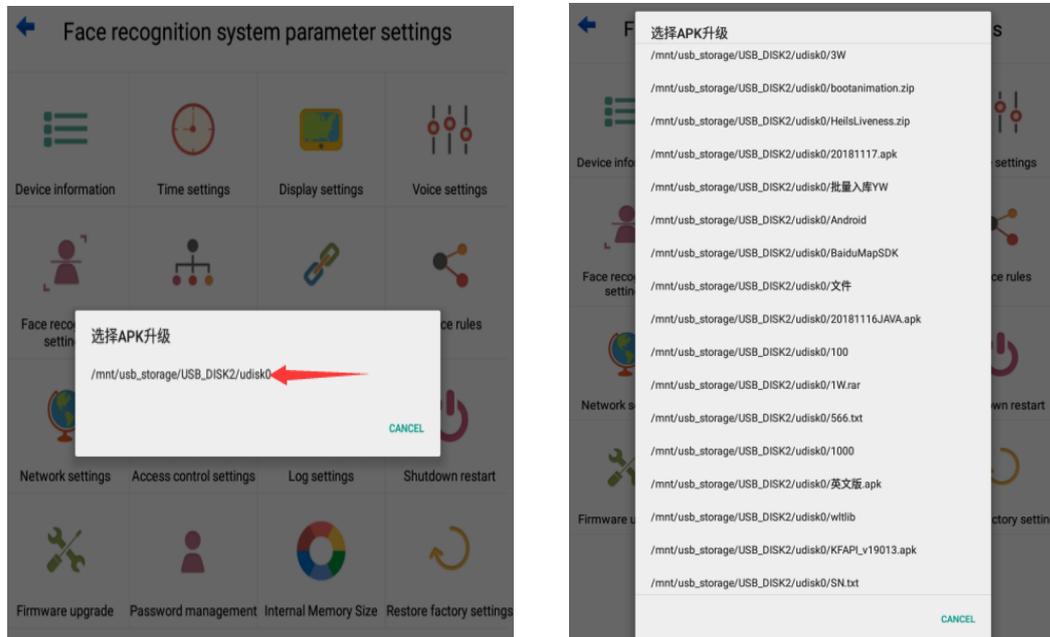
#### 4.11 Shutdown restart

You can manually restart or shut down the device, as shown below:



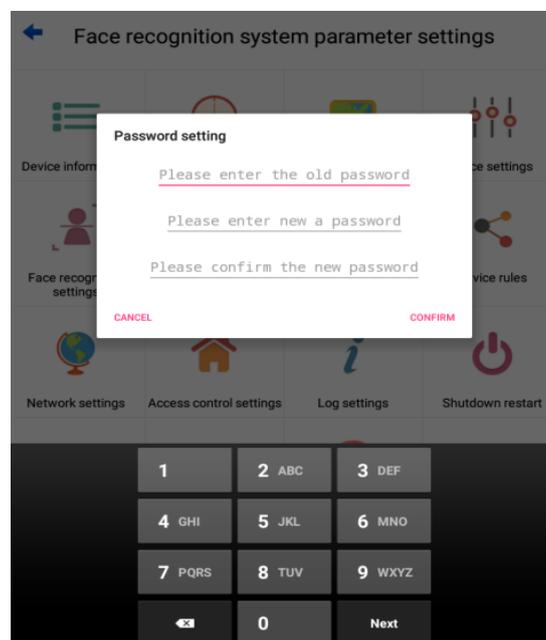
## 4.12 Firmware upgrade

Can be upgraded manually or automatically, manually upgrade, insert U disk, select the firmware and program path that need to be upgraded, as shown below:



## 4.13 Password Management

Set the administrator password as shown below:



## 4.14 Internal memory size

View device storage space, use capacity, etc., as shown below:

**Note:** In order to ensure the security of the system, after the storage space has been used for more than 80%, the software automatically deletes the identification picture record,

please synchronize the identification record in time!

#### 4.15 Restore factory settings

Restore the default factory settings, click "Restore Factory Settings", please enter the password, the password is the administrator password, as shown below:

Note: Please be cautious when restoring the factory settings. After restoring the factory settings, all data will be lost!

