



# Face recognition terminal system

## User Manual

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# **A. Chapter1 Introduction**

## **1. Document description**

This document is a user's manual for face recognition software.

Thank you very much for using our products. We will be happy to provide you with the best service.

This manual may contain technical inaccuracies or typographical errors.

The content of this manual will be updated regularly, and the updated content will be added in new versions of this manual.

We may improve or update the products or programs described in this manual at any time.

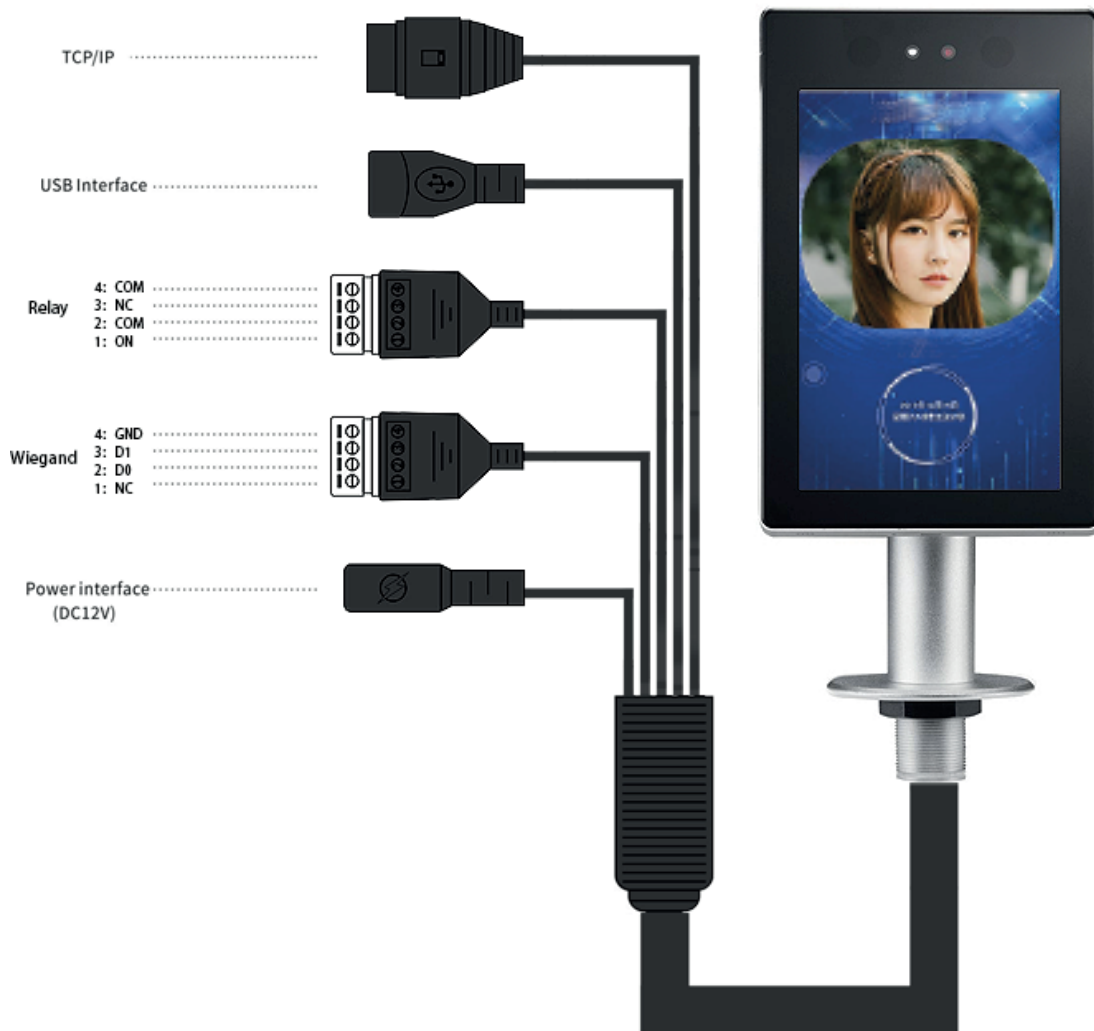
## **2. Use range**

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

# **B. Chapter2 Product instructions**

## **1. System function description**

The function of the face recognition system is divided into two parts: human-machine interaction and management module. When the customer uses it, only the human-machine interaction interface is displayed, and the background management can be entered only after being verified by the administrator.



**GND, +12V:** external +12V power input; GND: ground wire, +12V: 12V input; use 12V power adapter;

**RJ45:** Ethernet interface;

**USB:** standard USB interface;

**ON, COM, NC, COM:** a group of relay outputs to control the opening signal of the external access control board ;

**NC, D0, D1, GND:** Wiegand output, connected to the access controller .

## 1.1 Human-computer interaction

1. The main UI face-swipe interface is shown in Figure 1, UI1 (the default UI), and UI2 is shown in Figure 2, which only shows the results after the camera captures the video and compares!

Swipe your card or face



2020-04-02 14:50:10



Figure 1



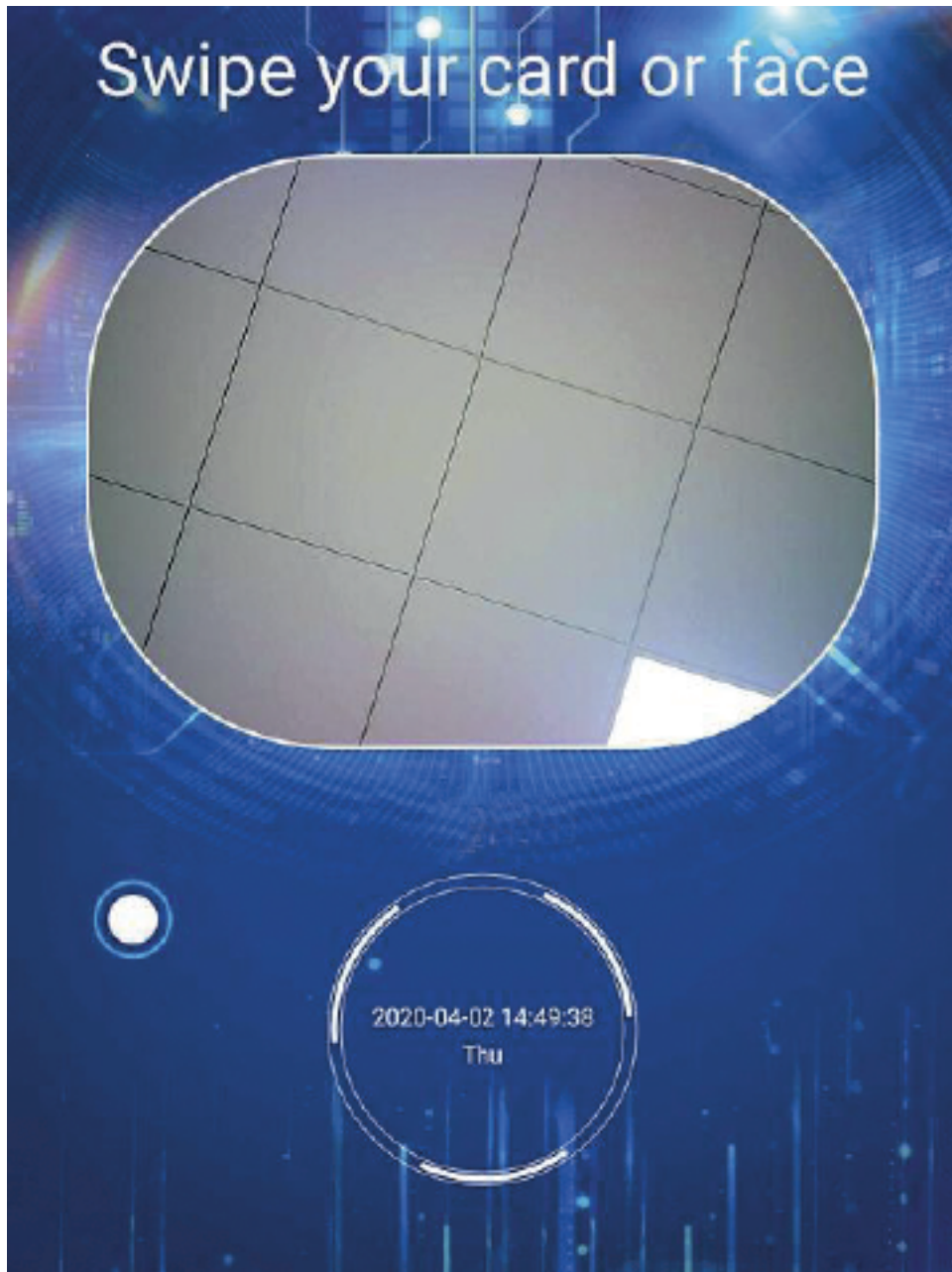
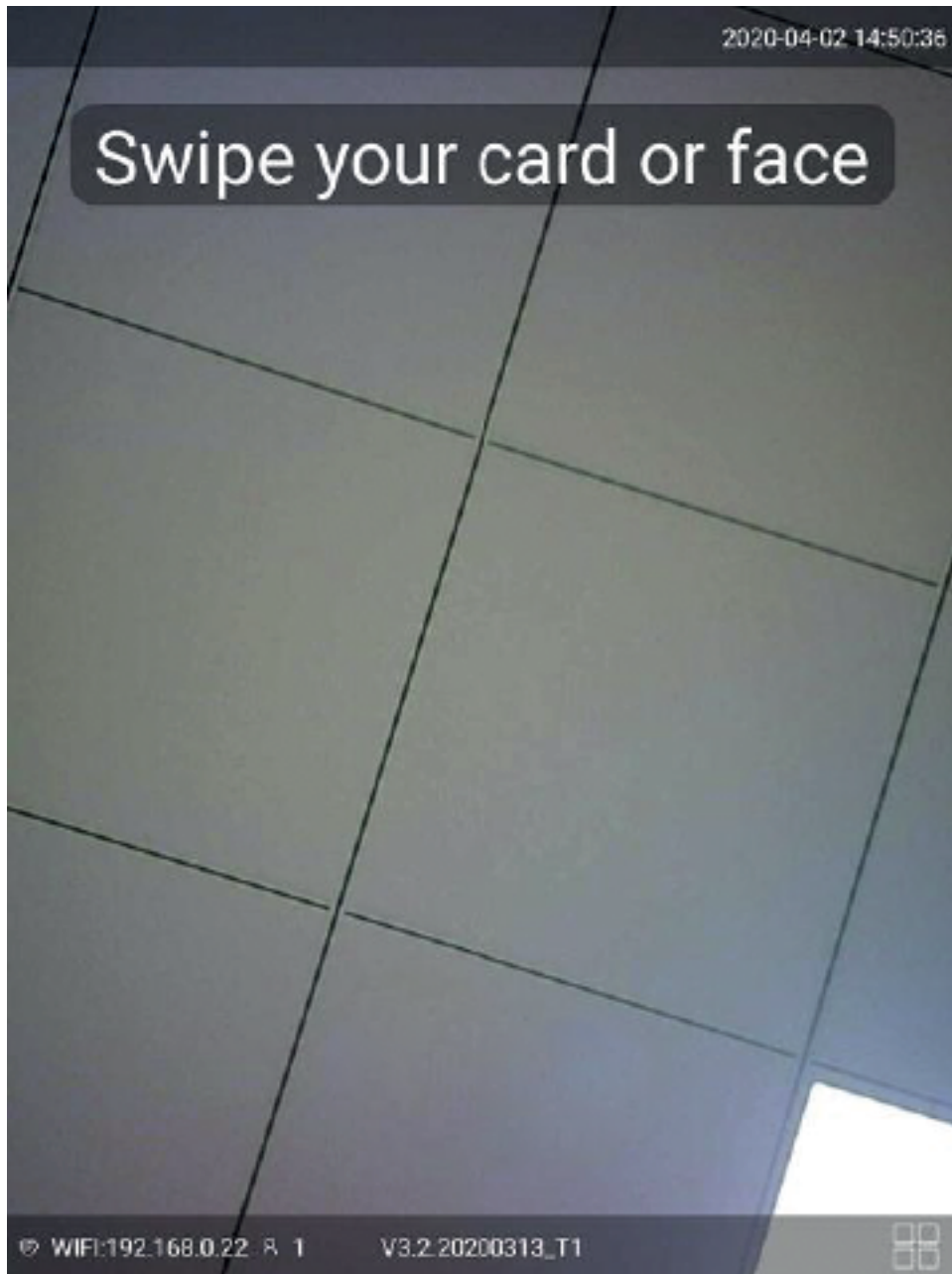


Figure 2



**8-inch touch screen version**

2. Operation display of quick icon bar at the bottom of UI1 and function introduction of quick icons, as shown in Figure 3 and Figure 4

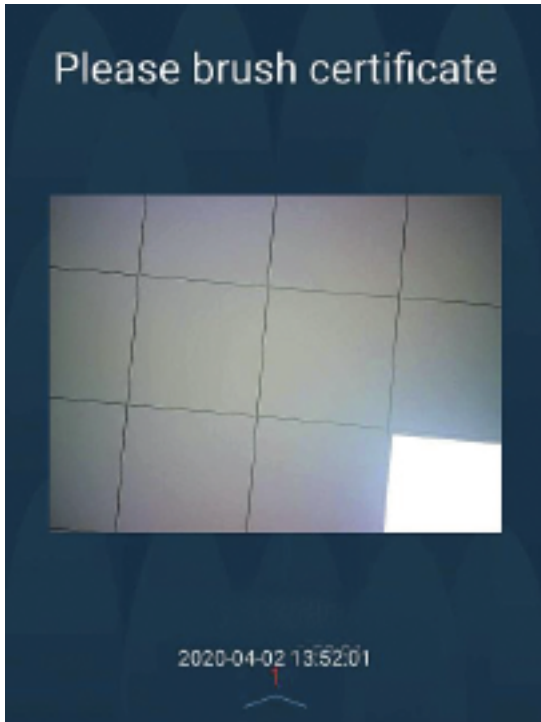


Figure 1

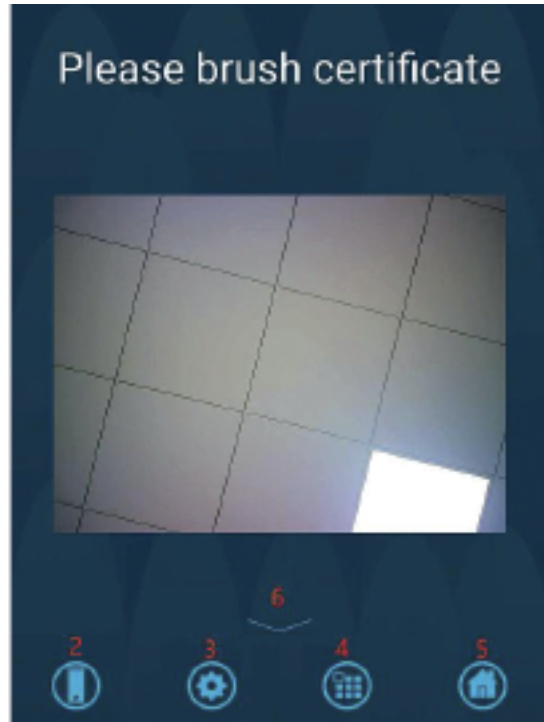


Figure 2

3. The operation display of the quick icon bar at the bottom of UI2 and the function introduction of quick icons are shown in Figure 5 and Figure 6:

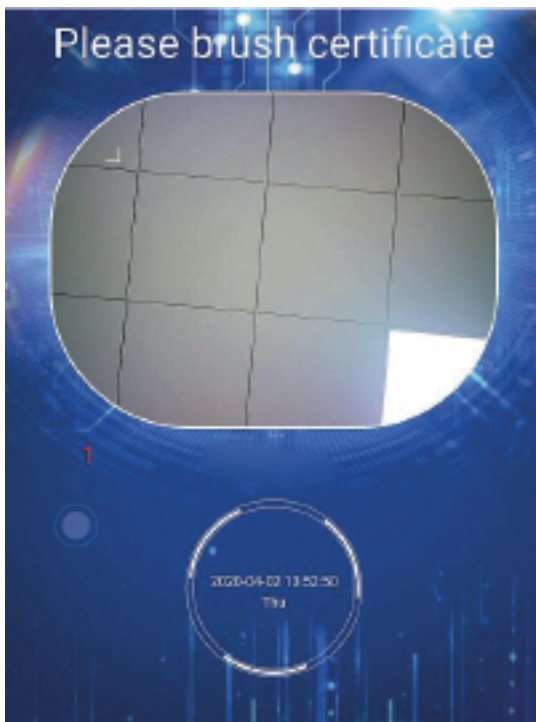
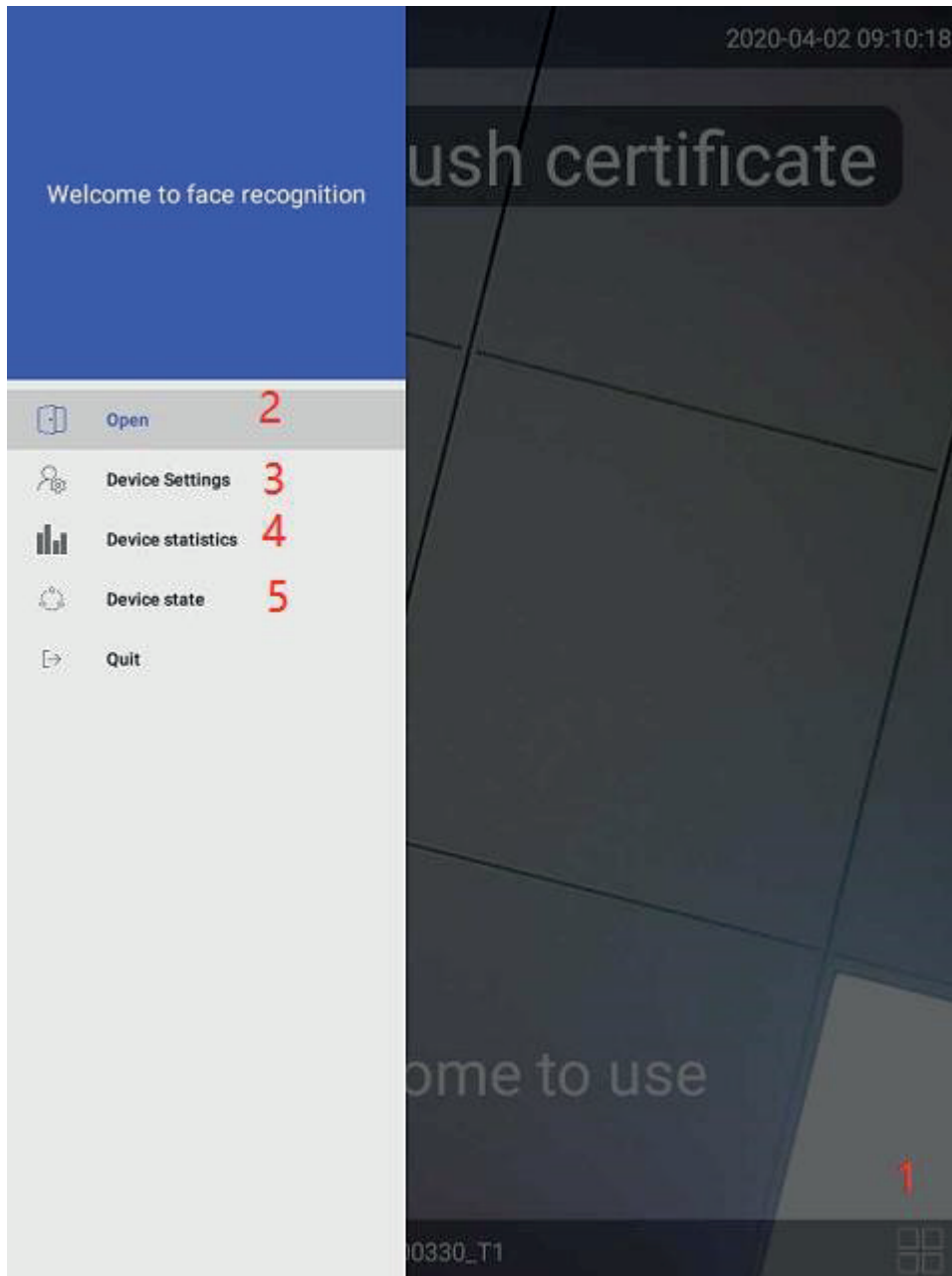


Figure 3



Figure 4



- ① Click in this area to display the shortcut icon at the bottom.
- ② Click to enter the password, the password is correct to open the door, as shown in Figure4, long press the pop-up password box to return to the desktop, as shown in Figure 5.

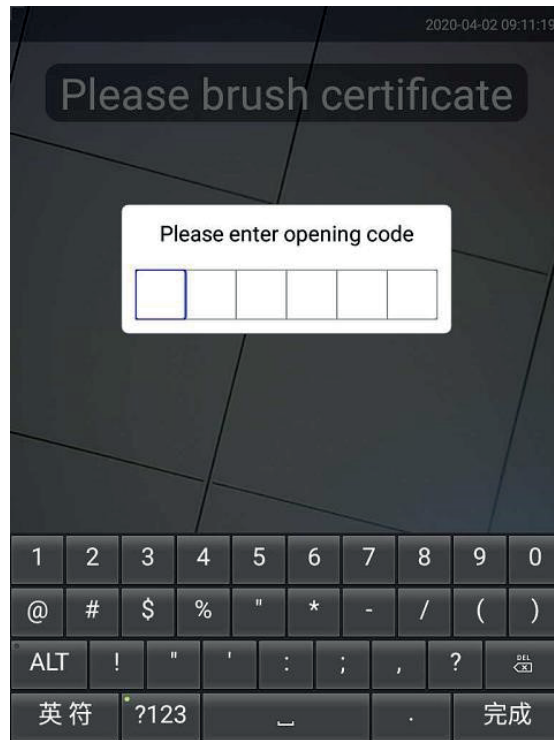


Figure 5

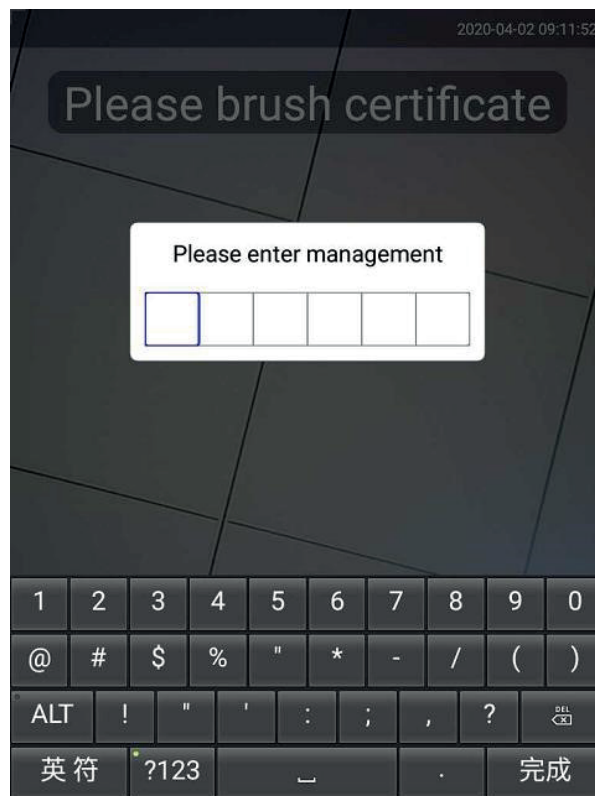


Figure 6

- ③ Administrator password setting button. After clicking, enter the management password to enter the setting management interface. Initial default password (111111),

users can change the initial administrator password after login, as shown in Figure 6.

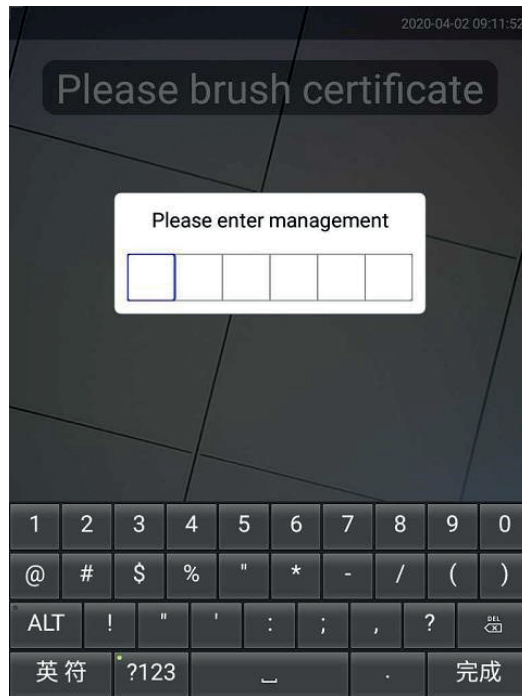


Figure 7

- ① People flow statistics button, you can view the statistics of current day and month respectively, the types are divided into 1: 1 and 1: N, click to switch to view, as shown in Figure 7.



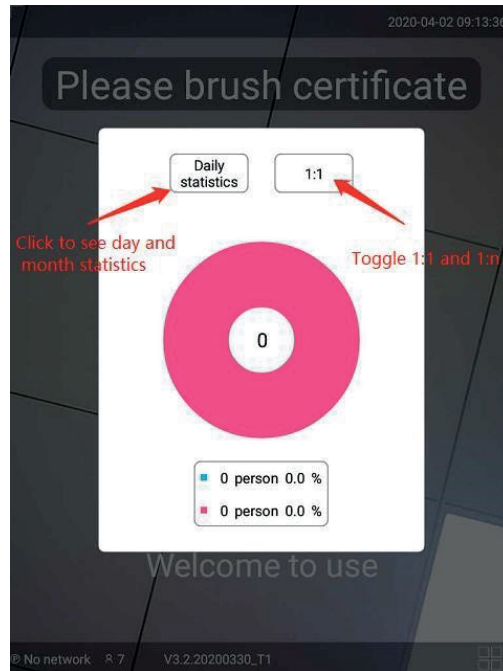


Figure 8

- ② Run status button, you can view the device number, IP address, verification mode and fill light brightness.

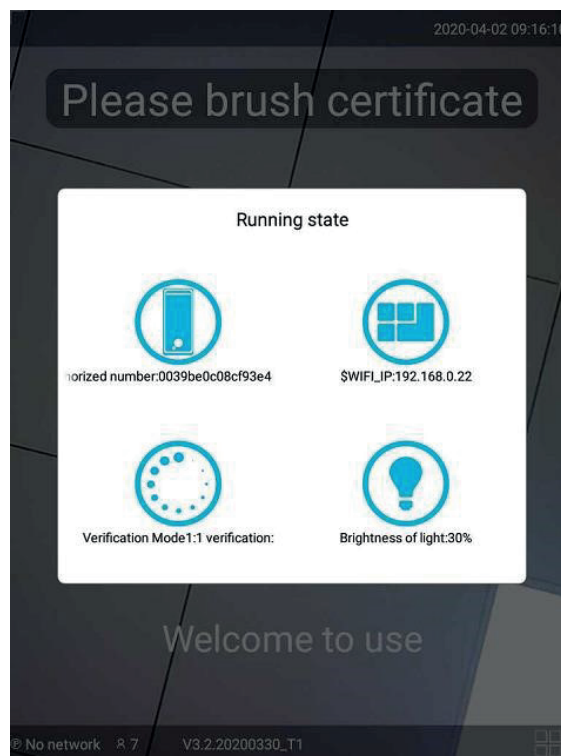
















Figure 9

## C. Face recognition system parameter setting interface

← Face recognition system parameter settings

			
Device information	Time settings	Standby settings	General settings
			
Face recognition settings	Personnel management	Data management	Device rules
			
Network settings	Access control settings	Log settings	Shutdown restart
			
Firmware upgrade	Password management	Internal Memory Size	Restore factory settings

### Device Information

You can view the basic information of the device, the entrance and exit settings, and the device location settings, as shown in Figure 15:



---

—

[←](#) **Device information**

---

Device Name	-----
Device Model	-----
Serial Number	0039be0c08cf93e4
Version Number	V3.2.20200330_T1
Algorithm Version	V2.0+V3.0
MAC Address	28:ed:e0:75:e8:20
Manufacturer	One Tech
Device Type	<b>Entry</b> ▾
Device Location	please enter

---

Figure 13

## Time setting

Set the local time and date of the device, and automatically synchronize the time with the server after networking. And turn on or off the restart setting at 3 am every day (factory, recommended to be on by default), as shown in Figure 16:

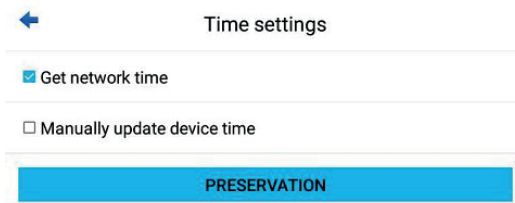


Figure 14

Set the time Click the red box to set the time. After setting the time, the save takes effect, as shown in Figure 17:

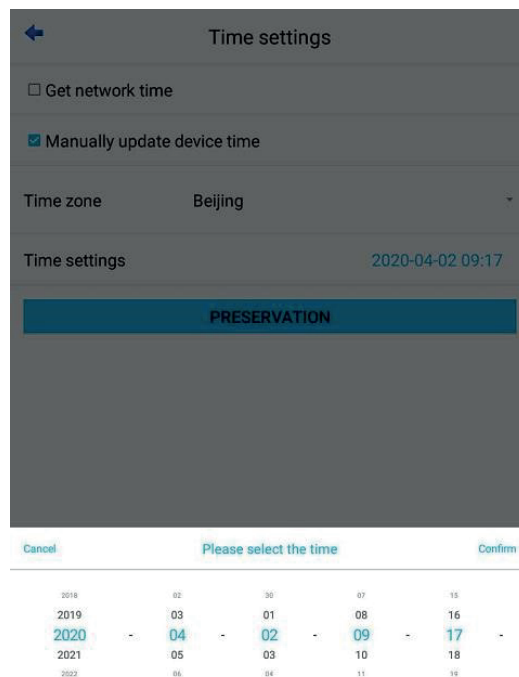


Figure 15

## Standby display settings


Switch for standby mode. Standby time, loop playback switch, carousel time setting, switching between standby display of picture or video, options for importing pictures and videos, as shown in Figure 18:



Figure 16

## General settings

Set the main interface screen display information, the theme wallpaper can set the UI style as shown in Figure 20, the system language settings are Chinese and English, the screen is equipped with 5 inch and 8 inch options, verification information full name display switch, fill light intelligent adjustment switch, Fill light brightness adjustment range 0 ~ 100, fill light 2 brightness adjustment range 0 ~ 100, screen brightness adjustment 0 ~ 100, sound switch, sound size adjustment range 0 ~ 100, verification success tone and verification failure tone setting, Finally submit the save button. As shown in Figure 19:

 **General settings**

---

Display Show: \_\_\_\_\_ **Welcome to use**

---

Theme \_\_\_\_\_ **UI3** >

---

System language: \_\_\_\_\_ **English (United States)** ▾

---

font color: **WHITE** ▾

---

Show full names: ON


---

Light intelligent regulation: ON


---

Volume: \_\_\_\_\_ **- 9 +**

---

Verification success tone: \_\_\_\_\_ **Verified successfully** 

---

Verification failure tone: \_\_\_\_\_ **Verified failed** 

**PRESERVATION**

Figure 17

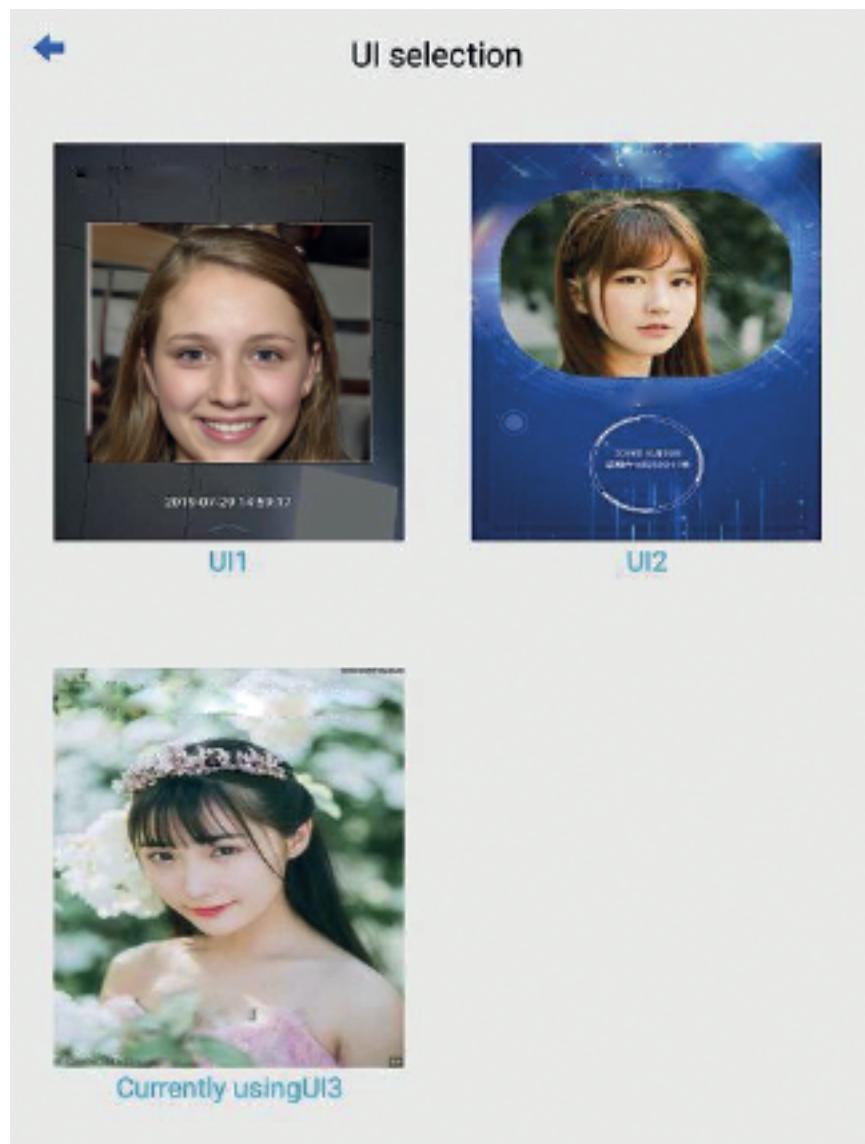


Figure 18

## Face recognition settings

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

### 1: N verification mode introduction:

The factory default 1: N threshold is 75, which can be adjusted according to the actual environment. Smart\_5\_ is on. Parameter 5 is the small compensation adjustment for the threshold within the system time of 19: 00: 0-5: 00: 00.

Considering the security level, the threshold setting is recommended for all indoors: 85-90, semi-outdoor recommended 80-88, outdoor recommended 75-85, as shown in Figure 20-21:

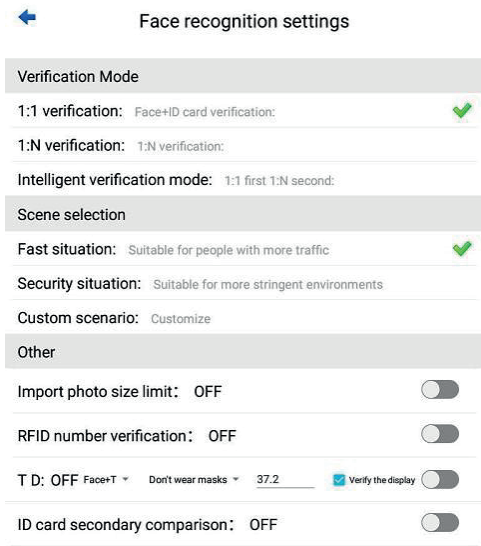


Figure 19

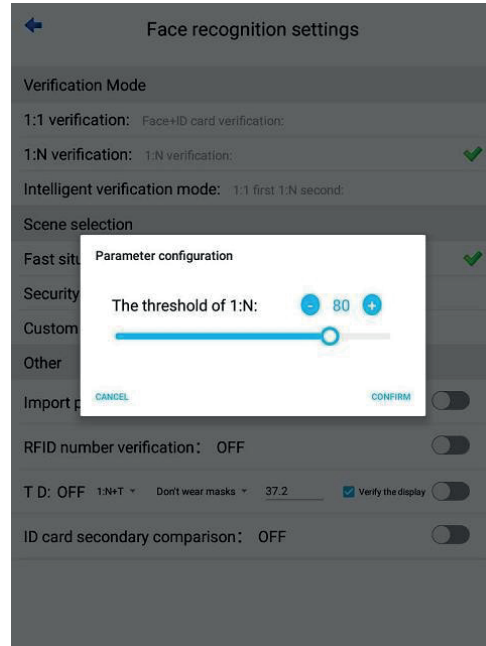


Figure 20

1: 1 ID card verification mode introduction:1 :

1: 1 authentication mode parameter configuration, according to the factory default settings, if you need to adjust, please set according to the age of the ID card, as shown in Figure 22:1 :

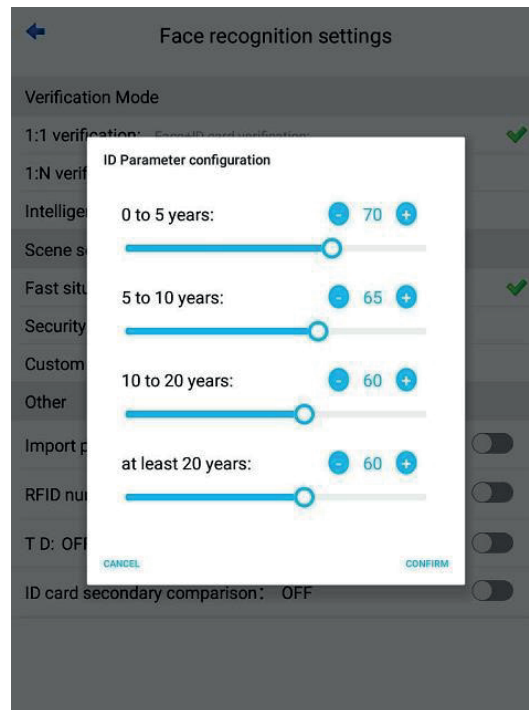


Figure 21

Introduction of other parameters: (Identify speed setting items)

Note: Face quality defaults to 50 and face reliability defaults to 51. Other parameters remain the default. Non-technical personnel must not modify them.

- a. Failed filtering times: To report how many times the recognition has failed, the recognition failure will be broadcast to prevent strangers from continuously reporting failure. **The recommended setting is: 3.**
- b. Same-person filtering time: How long does it take to re-identify after the same person is successfully identified? Prevent whitelisted people from continuously reporting success tips. **The recommended setting is: 3000.**

The default settings are shown in Figure 23:

- c. Min Pixel Of Eye: equivalent to setting the recognition distance  
**30 is about a distance of 100cm . 150 is about 50cm distance**

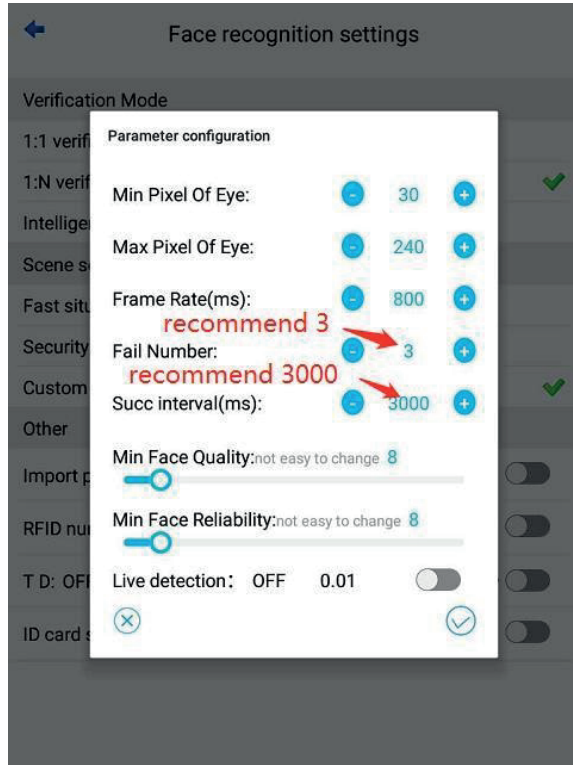


Figure 22

- d. Import photo size limitation, as shown in Figure

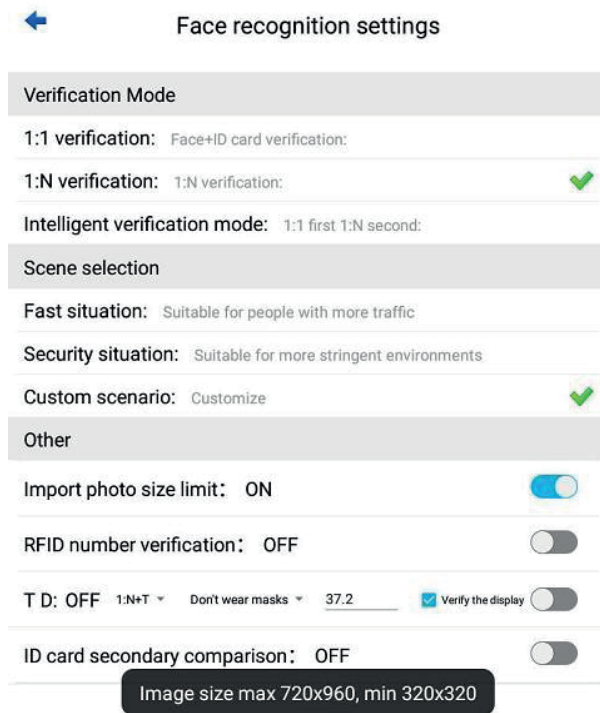
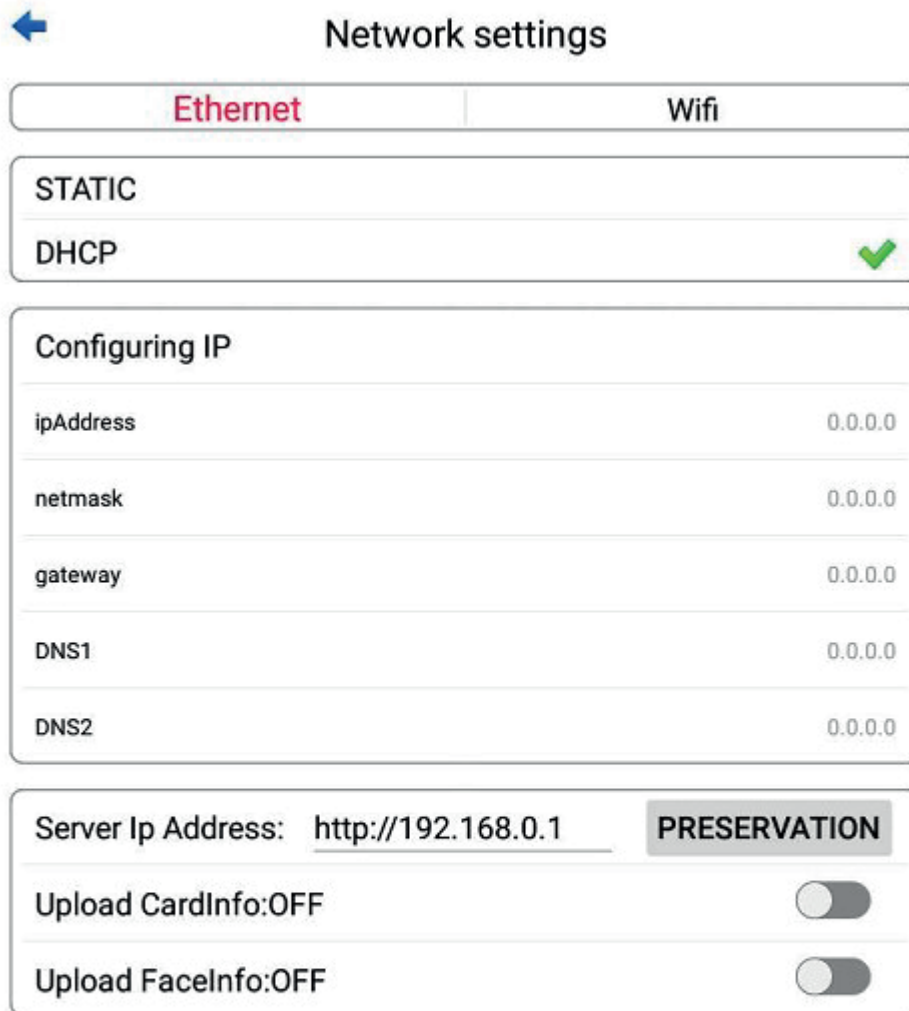


Figure 23



## Network settings

Set the wired network address of the device. Static mode (manual configuration) and dynamic mode (automatic acquisition) can be selected, as shown in Figure 40-41:

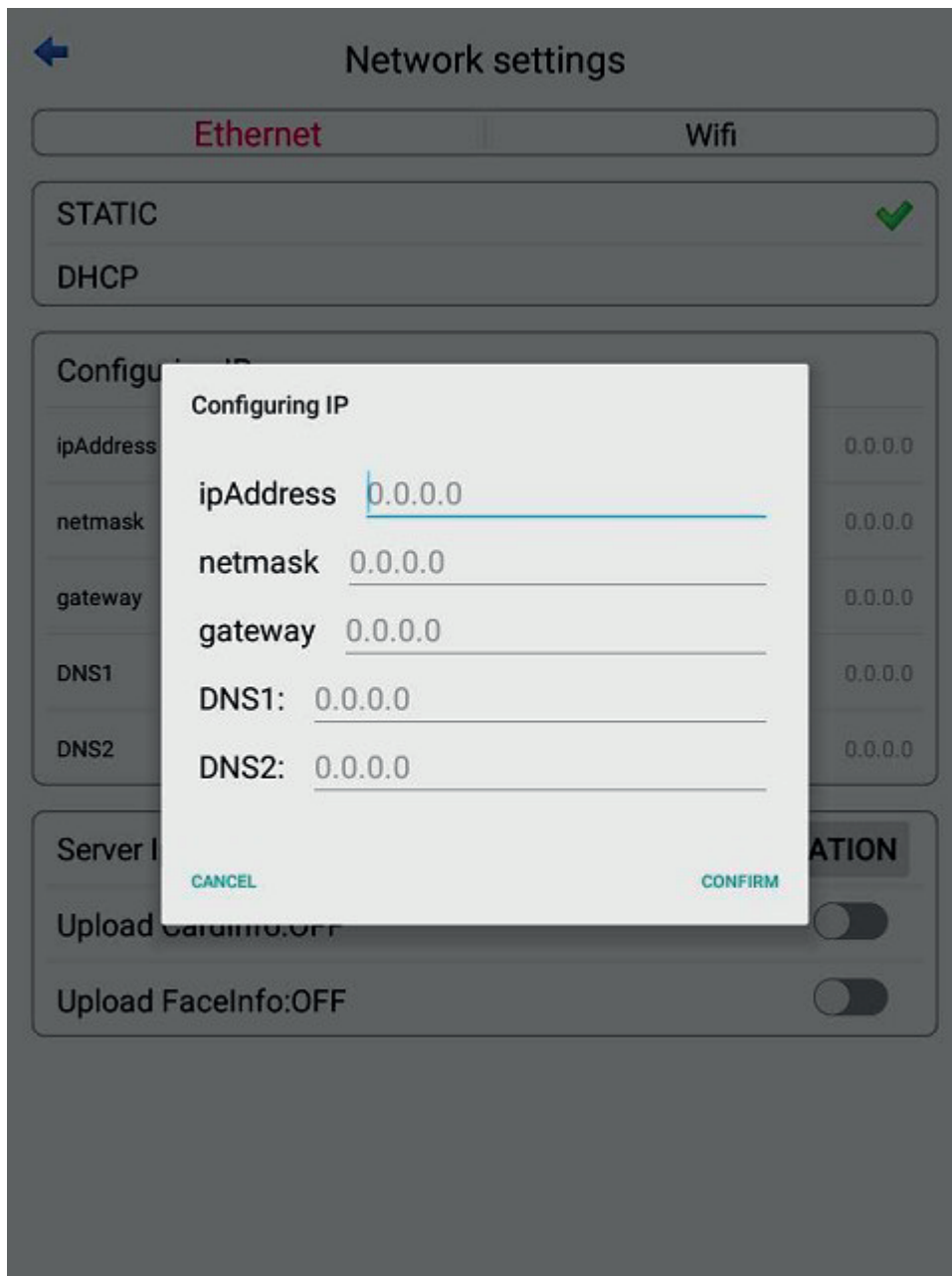


The screenshot shows a 'Network settings' screen with a blue back arrow on the left. At the top, there are two tabs: 'Ethernet' (highlighted in red) and 'Wifi'. Below the tabs is a selection menu with 'STATIC' selected and 'DHCP' below it, accompanied by a green checkmark. A section titled 'Configuring IP' contains a table with the following fields and values:

Field	Value
ipAddress	0.0.0.0
netmask	0.0.0.0
gateway	0.0.0.0
DNS1	0.0.0.0
DNS2	0.0.0.0

Below the table, there is a 'Server Ip Address' field with the value 'http://192.168.0.1' and a 'PRESERVATION' button. At the bottom, there are two toggle switches: 'Upload CardInfo:OFF' and 'Upload FaceInfo:OFF', both of which are currently turned off.

Figure 39



Set the device's wireless network address. You can choose between static mode (manual configuration) and dynamic mode (automatic acquisition), as shown in Figure 42:

← Network settings

Ethernet Wifi

STATIC

DHCP

Configuring IP

ipAddress	192.168.0.22
netmask	255.255.255.0
gateway	192.168.0.1
DNS1	202.96.134.133
DNS2	202.96.128.166

WIFI SETTING

Server Ip Address:  **PRESERVATION**

Upload CardInfo:OFF

Upload FaceInfo:OFF

Figure 41

Click "Set WIFI", select a valid wifi, enter the WIFI password to connect,  
**Note: WIFI may not be standard for different products.**



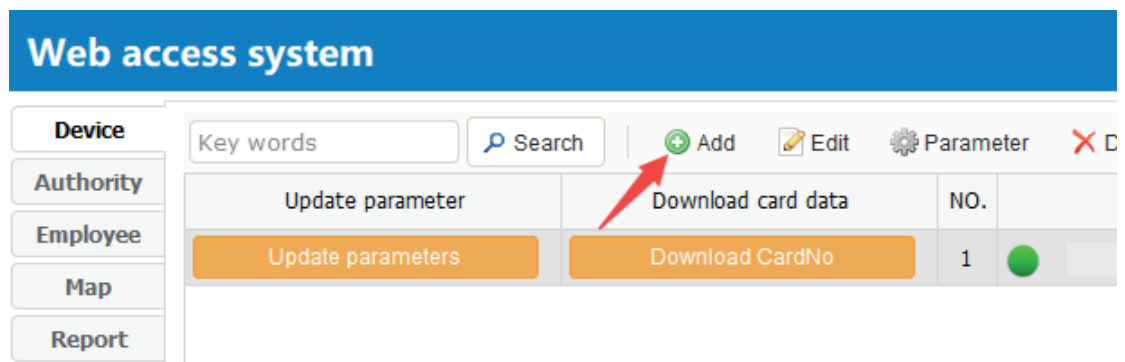
Figure 42

## D. Software operation

After the face machine is connected to the network, install the Web access control management software (B/S software). Plug in the dongle and start the software operation.

### 1. Add face machine

Click Add in "My Device" to add a face machine



**add controller**
✕

Name:

Status:  Enable

PullCmd:  Enable

Area:

Serial:

Model NO.:

IP-address:  Port:

Communication mode:

Alarm Time(s):  Fire Time(S):

Lock Each:  1-2Door  3-4Door Section ID:

Duress PIN:

Fill in the controller name, serial number, model, IP address, etc., and then click OK.

**Name:** The name of the face machine, named according to your own needs, so that it is easy to remember and recognize, it is best to determine the installation position of the face machine by the name.

**Status:** Select this option to terminate communication with the software. Checked by default.

**Serial number:** Any 6 - digit number cannot be repeated.

- Multifunctional 1door Sluice
- Face recognition 1
- Face recognition 2
- Face recognition 3
- Face recognition A
- Face recognition YF
- Face recognition KF
- Fingerprint machine ZK\_01

**Model:** Select "Face Recognition KF". It cannot be modified after filling in, it can only be deleted and re - added.

**IP address:** Fill in the IP address of the face machine.

After the addition is complete, the status of the face machine can be seen as a **green icon** in the device.

## 2. Update parameters

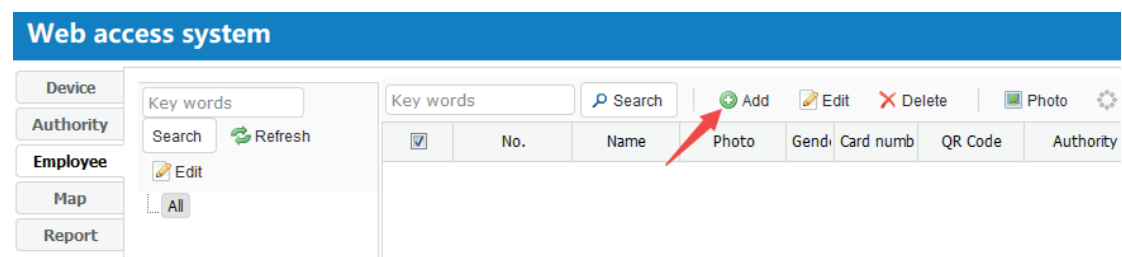
After adding the face machine, the parameters need to be updated once to cover the server- related parameters on the face machine. Note: The face machine parameters need to be updated after they are added or modified. If they are not modified, they need not be ignored.

## 3. Set permissions

Access permission defines a used access control permission. The access control authority here is equivalent to the position power of people, which means that certain positions can enter those doors, and when they can enter the door. It can also be understood as a combination of door opening hours.

The system will generate a permission named all access by default. For simple applications, use the default permission.

## 4. Add personnel



The screenshot shows the 'Web access system' interface. On the left, there are navigation buttons for 'Device', 'Authority', 'Employee', 'Map', and 'Report'. The 'Employee' section is active, showing a search bar with 'Key words', a 'Search' button, and a 'Refresh' button. Below the search bar is an 'Edit' button. The main area displays a table with columns: 'No.', 'Name', 'Photo', 'Gender', 'Card number', 'QR Code', and 'Authority'. A red arrow points to the 'Add' button (a green circle with a plus sign) located above the table. To the right of the 'Add' button are 'Edit' (pencil icon), 'Delete' (red X icon), and 'Photo' (camera icon) buttons. There is also a search bar and a 'Search' button above the table.

Fill in the relevant personnel information above, the number is required, (name when using the face machine, the card number is required) Others can not fill in or fill in later. Click OK to complete personnel editing.

**Add** ✖

No.: 10001

Name: Crystal

English name:

Gender:  Male  Female

Birthday: 2000-01-01

Nation:

Department:

Job:

Phone:

Address:

Email:

Validity period: 2040-06-10 16:12

Authority:

Status:  Enabled

Person Code:

licence plate:

Note 1:

Note 2:

Record date: 2020-06-15

Card number: 333222

QR Code:

Password: 1234

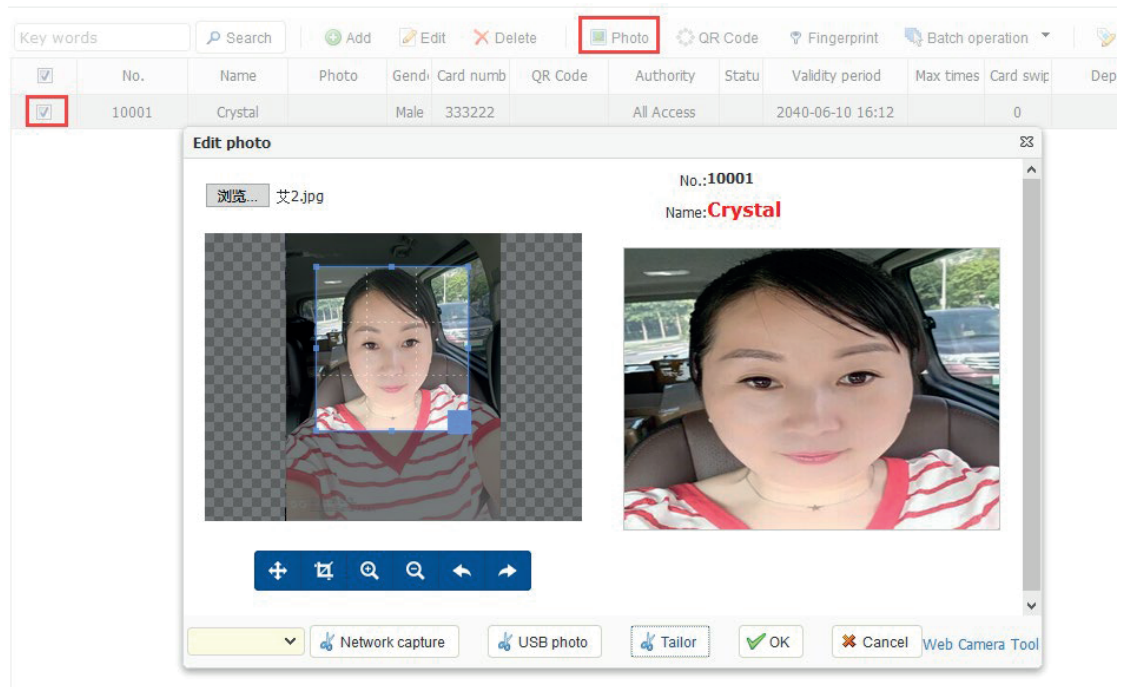
note:

1: Modify personnel can double - click to enter the modification, or, select a person and click the "Edit" button.

2: The person to be deleted must be in the "logout " state. Select multiple deregistered persons to delete in batches.

Set photo:

1: After selecting the person, click the "Photo" in the upper menu to set the person registration image. (You can also browse the photo file to add when adding a person.)



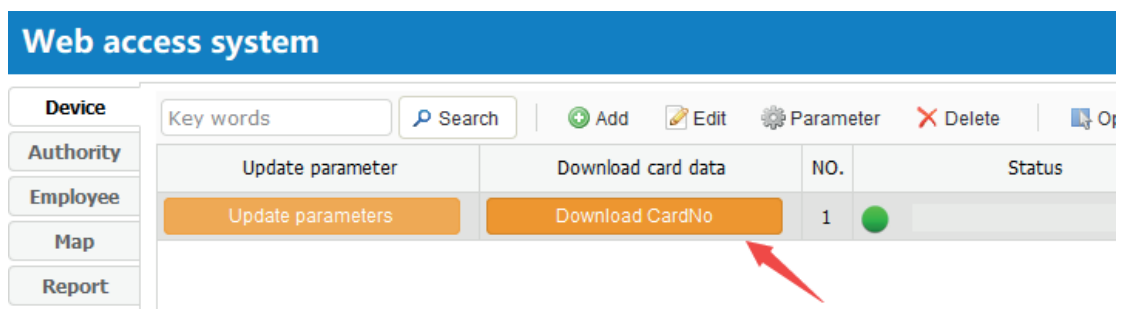
After adjusting the marquee to a suitable size, click the "Crop" button. Click OK after the avatar appears on the right.

## 5. Downloader

Download the personnel data in the database to the face machine. Select download card data, the data download progress bar will prompt the completion status. There are two ways to download card data:

### 1) Download in "My Device"

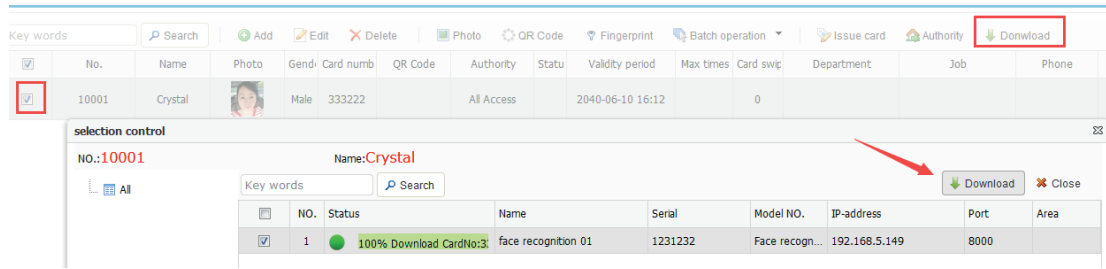
In the device, choosing which face machine is to download the card data of which face machine, and choosing which interface to download the card data is to download the card data to all face machines with normal communication on this interface. All personnel card data is downloaded in this way.




### 2) Download in "Personnel Management"

In the personnel management, select the personnel column to be downloaded (can be a certain person, a certain group of people), click "download" above.





The screenshot shows the ONE TECH software interface. At the top, there is a menu bar with options: Add, Edit, Delete, Photo, QR Code, Fingerprint, Batch operation, Issue card, Authority, and Download. Below the menu is a table of personnel information. The first row is selected, and a 'Download' button is highlighted in the top right corner. A 'selection control' dialog is open, showing details for the selected personnel (NO.:10001, Name:Crystal). The dialog has a 'Download' button and a 'Close' button. A red arrow points to the 'Download' button in the dialog.

No.	Name	Photo	Gender	Card numb	QR Code	Authority	Status	Validity period	Max times	Card swip	Department	Job	Phone
10001	Crystal		Male	333222		All Access		2040-06-10 16:12		0			

NO.	Status	Name	Serial	Model NO.	IP-address	Port	Area
1	100% Download	CardNo:3 face recognition 01	1231232	Face recogn...	192.168.5.149	8000	

Tick the target controller to be downloaded, and then click the "Download" button in the upper right corner.

Tip: If there is already a large amount of personnel information, it is recommended to download only the newly added card data in "Personnel Management" when adding more personnel to avoid downloading huge personnel card data, saving time and improving efficiency.

The face test is normal, and events will be pushed in real time at the bottom of the software.