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## USER GUIDE

### H1000 Enterprise Tablet



Note:

\* This Guide introduced general functions of H1000. Your device may have different functions wherein or description.

\* There may be differences between the illustrations in this Guide and the actual product. And the actual product shall prevail.

## Terms of usage

### Statement

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### Product improvement

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### Disclaimer

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## History of preparation

Modification records are as follows:

<b>Prepared by</b>	<b>Date</b>	<b>Description</b>
H1000-UGV01 Rev 0.1	March 2020	First edition
H1000-UGV01 Rev 0.2	March 2020	2nd edition
H1000-UGV01 Rev0.3	April 2020	3rd edition
H1000-UGV01 Rev0.4	May 2020	4th edition
H1000-UGV01 Rev0.5	May 2020	5th edition
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# 1. Product overview

## 1.1. Introduction

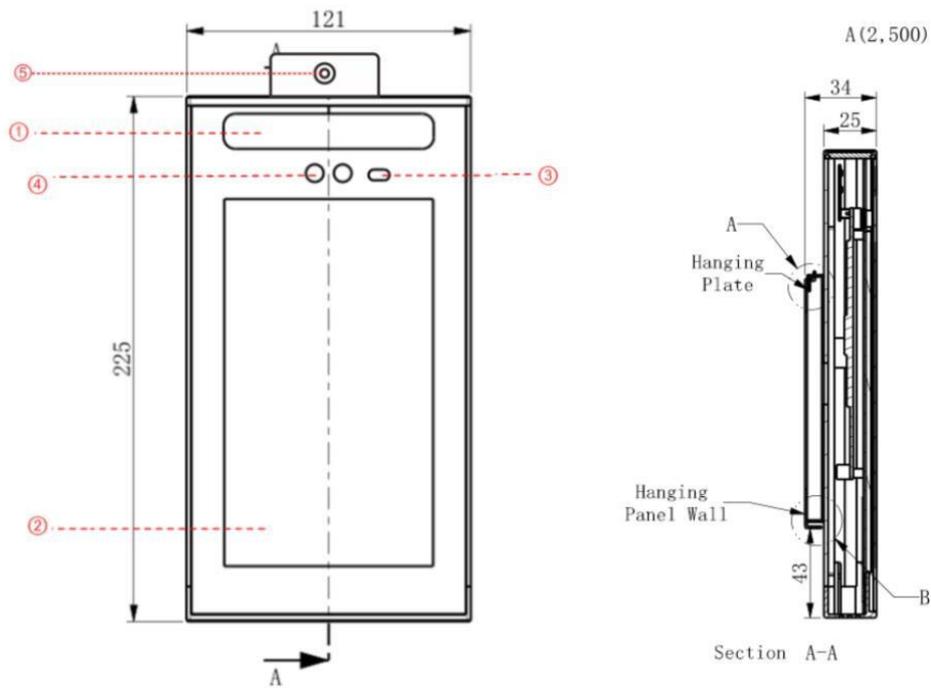
H1000 is an Android based facial recognition tablet.

## 1.2. Features

- Human body temperature measurement.
- 7-inch display with WSVGA 1024 x 600 resolution.
- 2M pixel wide-angle camera.
- Live detection function: Distinguish whether the face is a real person or picture.
- 16G storage capacity can store 150,000+ matching events.
- Support external TF storage card.
- Support Wi-Fi connection.
- Support import and export of face and events.
- Device supports USB storage and OTG. External ID card reader through RS232 interface.
- Support voice prompt function.
- Advertising broadcasting: Administrator can customize text or pictures, then publish them on the device screen.
- Can import facial profile from PC to the device or import profile from device to PC.
- Can access to cloud storage.

## 2. Equipment hardware

## 2.1. Housing Introduction



- ① Environment LED ② Display Screen ③ Infrared LED ④ Camera ⑤ Temperature sensor

Figure 2-1 Component Appearance Diagram

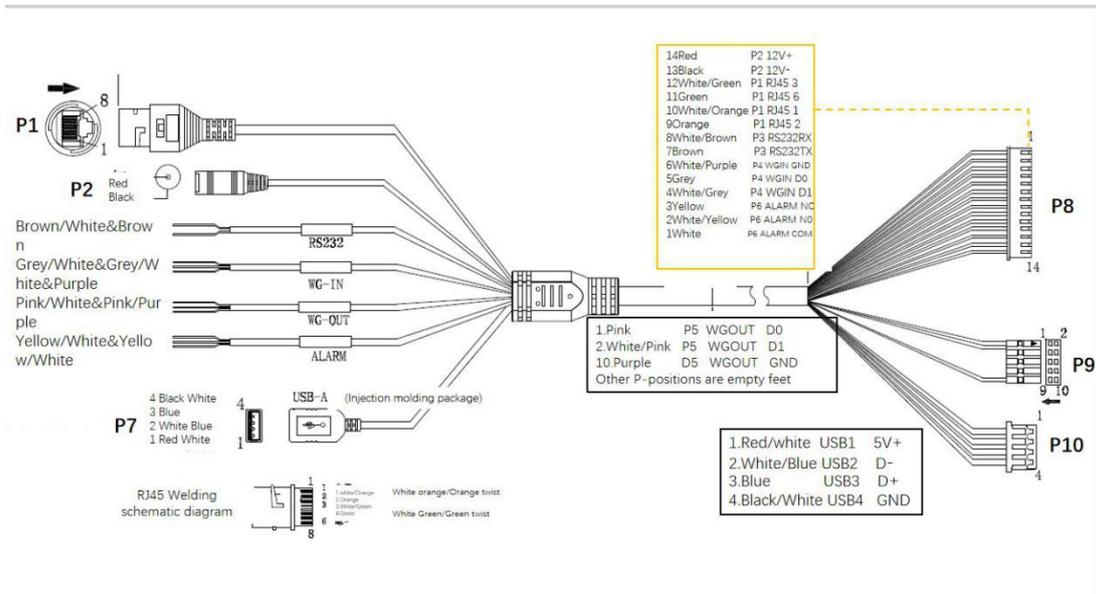
## 2.2. Product Specifications

Item	Specification	Description
Basic Specification	OS System	Android 7.1
	Display Screen	Size: 7-inch, Display Ratio:16:9, Resolution: WSVGA 1024 × 600 pixel.
	Power Supply	DC 12V/2A (external power adapter only)

	Power	12W
	Humidity	0% - 90% (without condensation)
	Operation Temperature	15°C ~ 30°C
	Application	Indoor (Recommended)
	Dimension	121mm (Width)*225mm (Height)*25mm (Thickness)
Hardware Configuration	Identity Mode	Face recognition
	Face Recognition Parameters:	Recognize Time < 1 s/Person
		Accuracy ≥ 99%.
		Facial recognition distance 0.3 m~2.0 m
		Local face database capacity is 30,000.
	Interface	RS-232 port x1
		100Mbps Network Card x 1
		Wiegand x1 (Read and Write)
		USB2.0 x1
		Relay x1
		Power interface x1
	Camera	2M pixels 1080P
	Infrared camera	2M pixels 1080P
Infrared environment LED	Support	
Speaker	Single speaker, power >1.5 W	
Wireless Connection	4G LTE	4G LTE
	WIFI	2.4G 802.11b/g/n

	BT	BT4.0
Body temperature detection	Temperature Broadcast range	35~42°C
	Measuring Accuracy	±0.5°C (Ambient Humidity 10°C~30°C)
	Measuring Distance	<0.5m
	Measuring Speed	100ms~500ms
	Over temperature alarm threshold	37.3°C

## 2.3. Cable Definition



Type	Port	Port Description
Power Cable	DC interface	12V 2A
USB Cable	USB interface	USB2.0 TYPE A socket
Network Cable	Network Port	100Mbps
COM Port Line	Pink D0_OUT(Optional)	Extension interface, supports 26bit/32bit/34bit protocol.
	White & Pink D1_OUT(Optional)	
	Purple GND	Ground
	White & Brown 232-RX	232 Serial Port
	Brown 232-TX	232 Serial Port

	Black GND	Ground
	White & Purple GND	Ground
	Grey D0_IN	Extension interface, supports 26bit/32bit/34bit protocol.
	White & Grey D1_IN	
	White & Yellow NO	Normally ON, Relay Power Negative port with NO or NC
	White COM	Public Side, Door Lock Power Positive port to COM
	Yellow NC	Normally OFF, Relay Power Negative port with NO or NC

### 3. Wall-mount Installation Guide

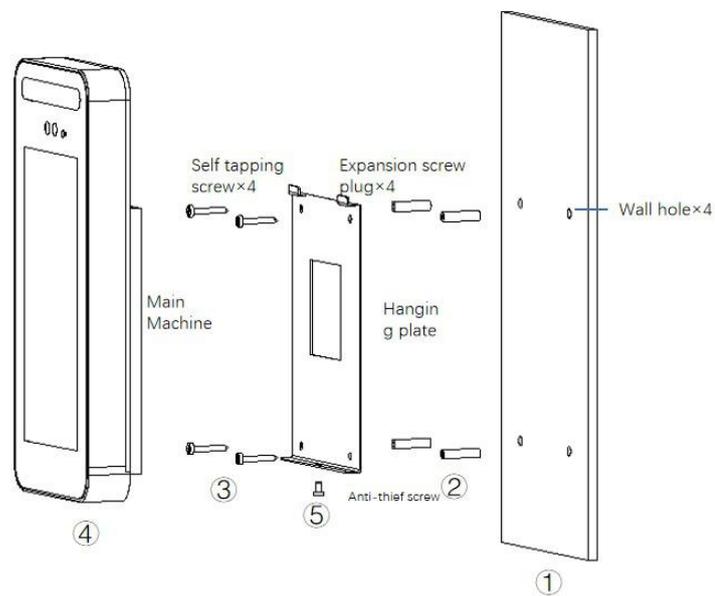
Installation Environmental request:

Avoid direct sunlight to lens and display, avoid lit shots. Outdoor installation, visor to be installed on the device.

Before Installing:

This device is only suitable for installation on a concrete or non-flammable surface.

Wall installation

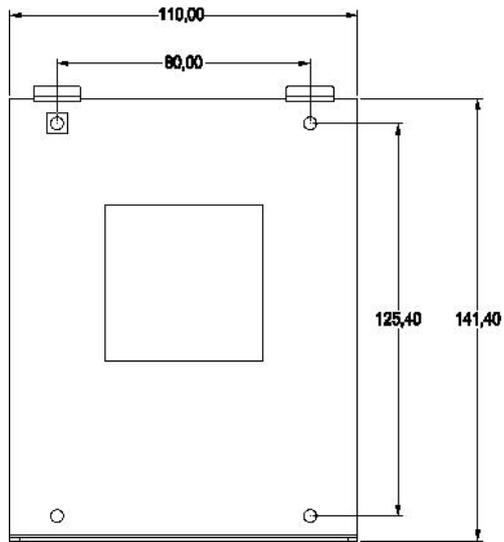


Installation PrecEDURE:①→②→③→④→⑤

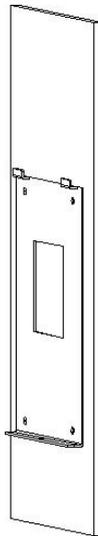
Note:①Wall drilling②Injert expansion screw③Install hanging plate④Install main machine⑤Lock anti-thief screw

Step1: To dig four holes in the wall according to the following schematic size, and screws inserted into the dowel in the hole.

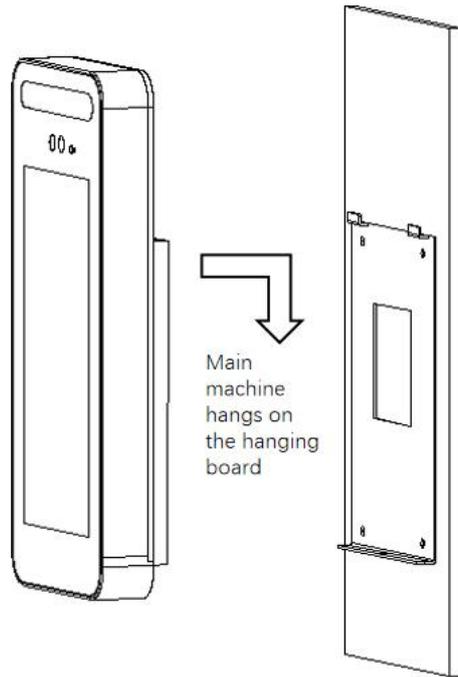
Note: reserve space on the wall for wire connection.



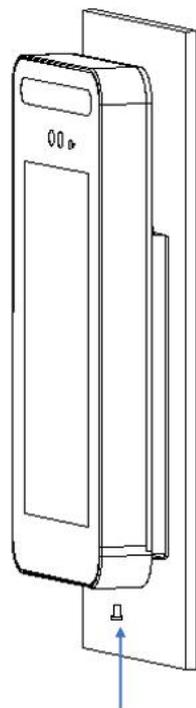
Step2: Fixed the hanging plate to the wall.



Step 3: Fixed the H1000 on the plate.



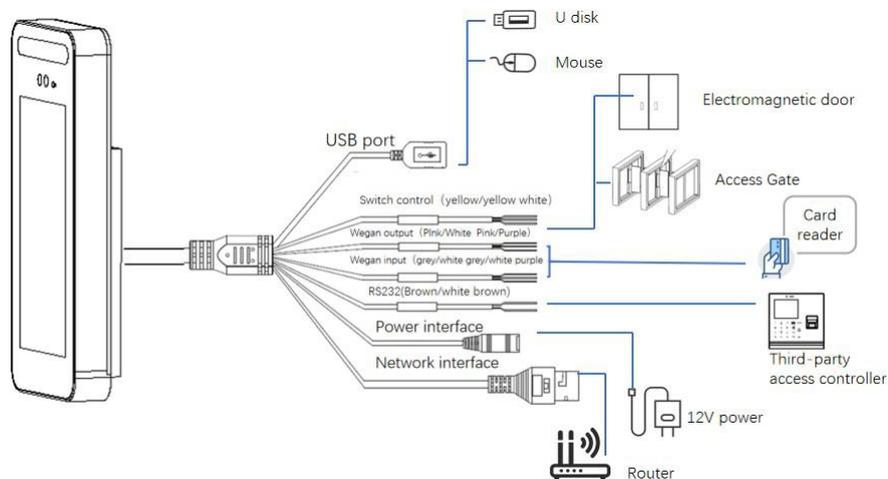
Step4: Install anti-theft screws.



Lock this anti-thief screw

## 4. Described external device connection

Extension diagram



- USB interface can be used for external U disk for software upgrade, mouse, or other devices.
- Can connect to other third-party Devices, such as access control, the 2D barcode scanner, card reader, fingerprint identification module via RS232 port.

## 5. Software Features Operation Introduction

Noted:

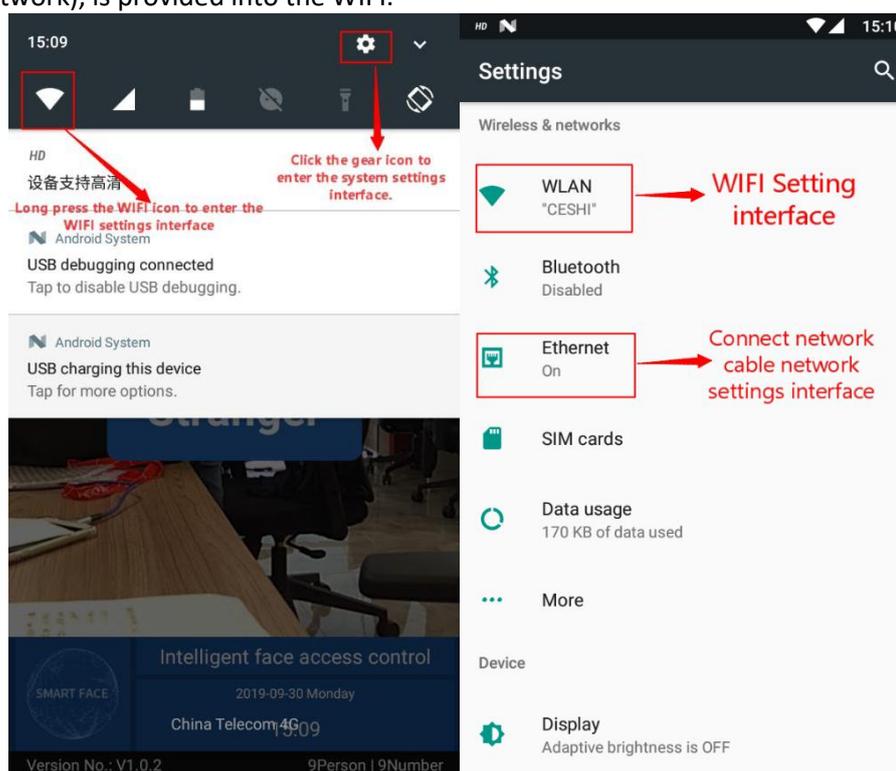
- Plug mouse into the USB port, left click button for confirm, right click button for return
- After connecting to network, the upper left corner of the main screen will show the IP address.
- The computer or mobile phone for setting H1000, need connect to same AP.

## 5.1. Network connecting settings

### 5.1.1 Using Wi-Fi network connection

#### Procedure

- 1) Power on H1000, plug mouse, drag down top bar (move cursor to top bar, left click and drag down).
- 2) Click WIFI icon to enter the WIFI settings interface.
- 3) Or click gear icon, enter the system interface as (FIG. 2), click to select WLAN (Wi-Fi network), is provided into the WIFI.

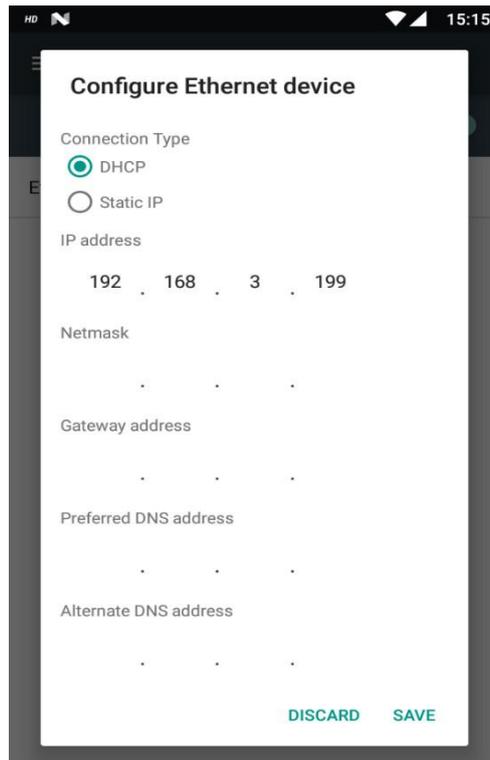


### 5.1.2 Use LAN cable connected to the network

#### Procedure

- 1) Non-fixed IP address: connected to the network, after the Internet connected, wait 2 minutes, the top left corner of the main screen will show the IP address of the device.
- 2) Fixed IP address: connected to the network, first enter the Ethernet interface as (FIG. 2), click the icon Ethernet, then Ethernet configuration (FIG. 3), selecting a static IP, entering the correct IP address, subnet mask, DNS server and other information, and then click to save.

After successful connected, the top left corner of the main interface devices will show IP address of the device (consistent with the IP address input setting).



### 5.1.3 Use 4G internet

Procedure:

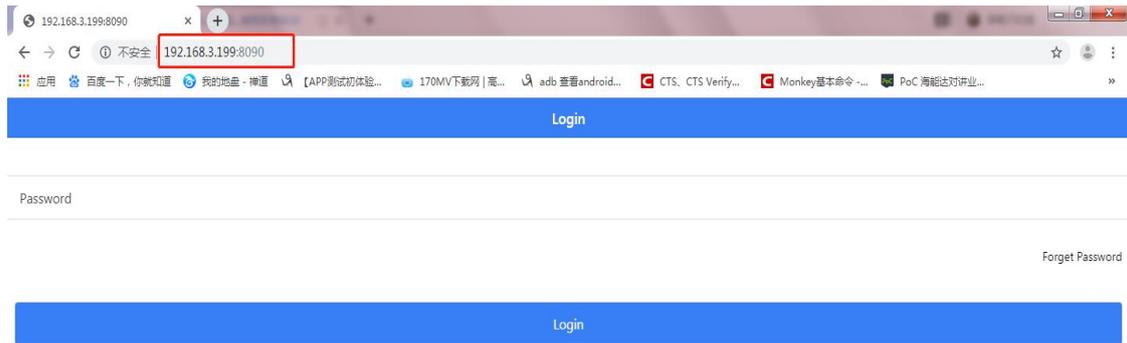
- Power off, remove the back cover, open the SIM slot, insert SIM card. Power on and use mouse select setting to connect internet.

## 5.2 WEB management Interface operating Instructions

Use PC or smartphone, execute the browser, (recommended to use google Chrome)

### 5.2.1 WEB interface log

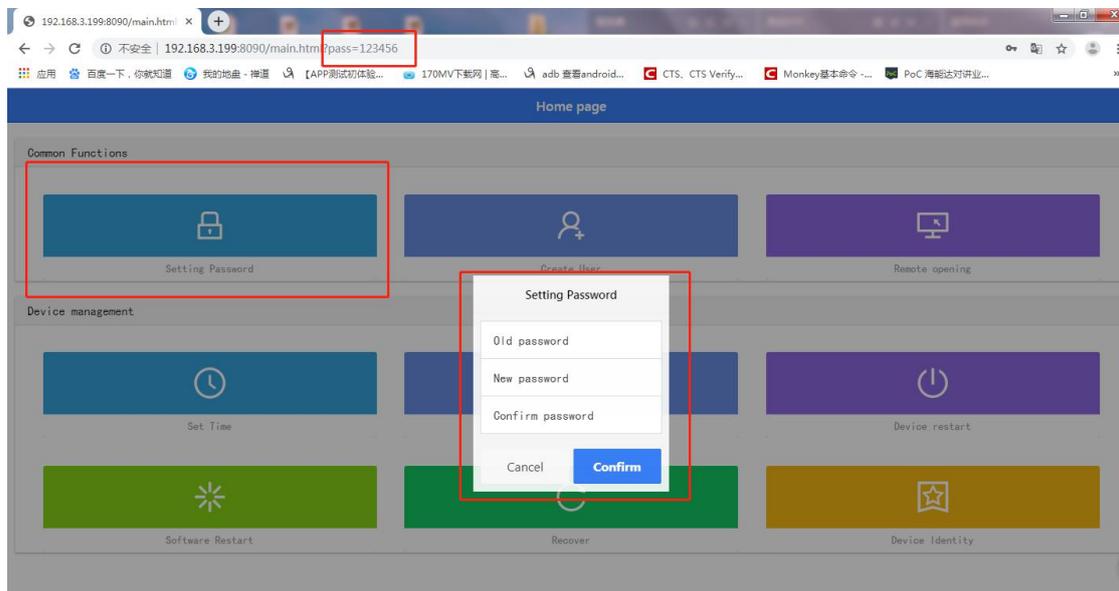
1. Enter terminal's IP address at browser address bar and add post 8090. For example:  
192.168.3.243: 8090.



2. Default Password is 123456

## 5.2.2 Change login password

Recommended to change the password. Password length cannot exceed 12 digits, and not allow special character such as “@ # \$ “



## 5.2.3 Add face profile

Click New User icons, pop up the following figure, enter the user's name.

Note: IC card is optional, username and user ID cannot be duplicated.

Click Add User, pop up screen the below

Take picture (Max three faces picture)

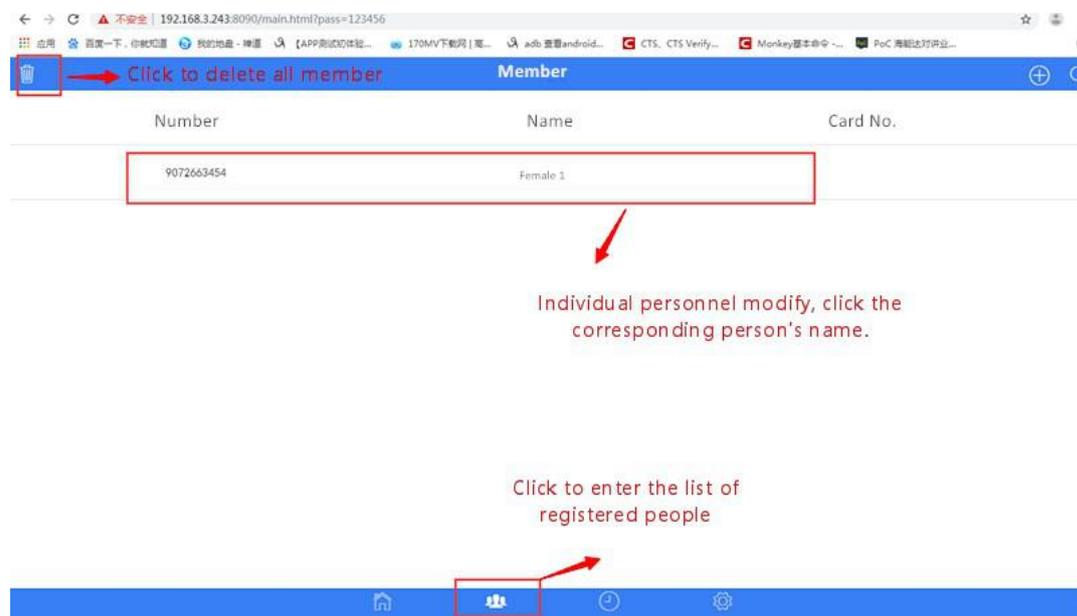
There are two way for registration, registration by import files by PC or take picture camera by H1000.

Cautions:

- Do not import different faces into one staff profile.
- Do not import same picture to different staff profile.
- Conducting picture take registration, please straighten face, avoid back lit scenes to shoot.

## 5.2.4 Modify or delete face profile

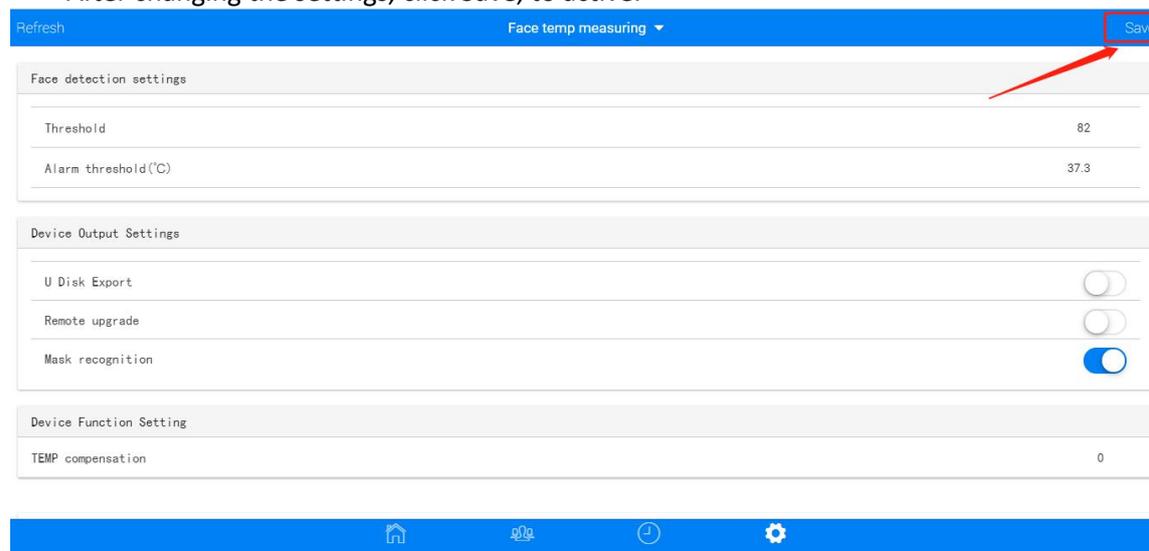
Modify or delete staff profile as below procedure:



## 5.3 WEB backstage operating Instructions

### Precautions:

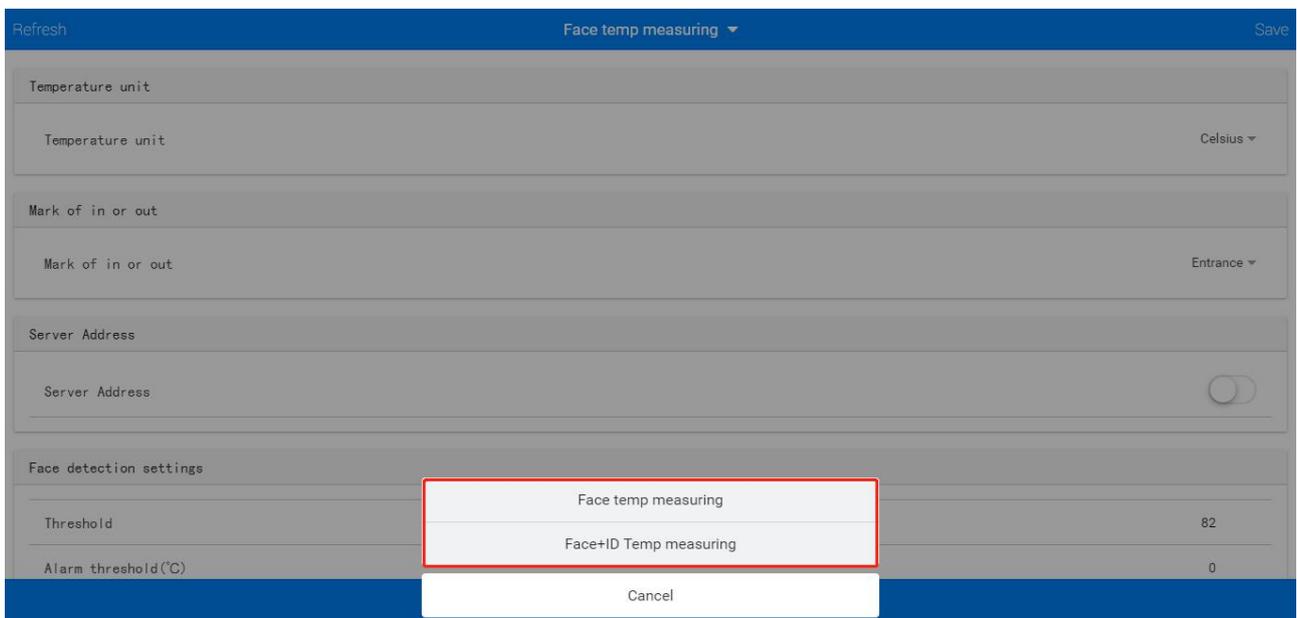
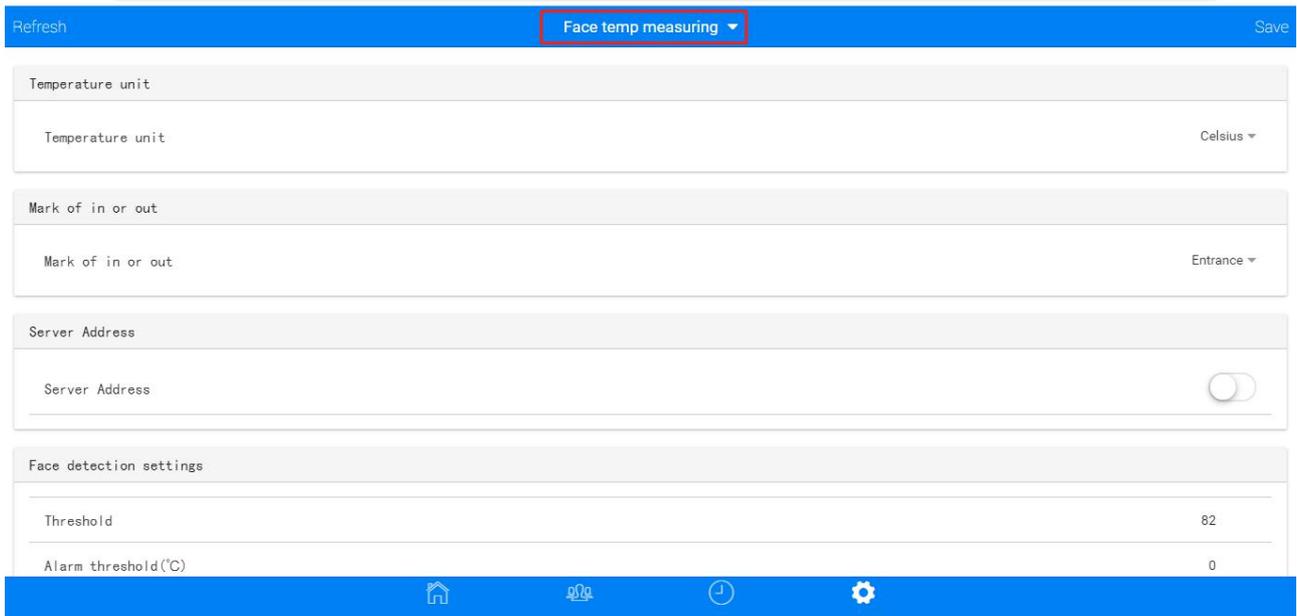
- After changing the settings, click Save, to active.



### 5.3.1 Measuring mode

There are two modes to select: Face temp measuring (measure temperature,

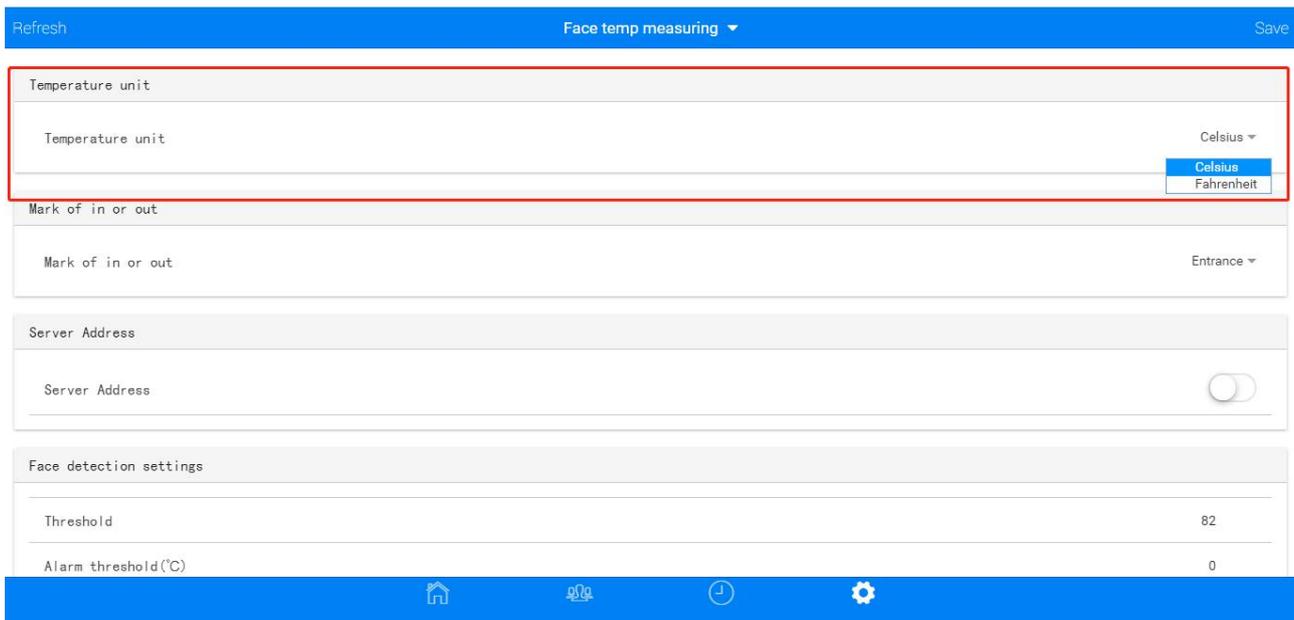
- Ignore face recognition), Face+ID temp measuring (measure temperature and detect human faces)



## 5.3.2 Common operations

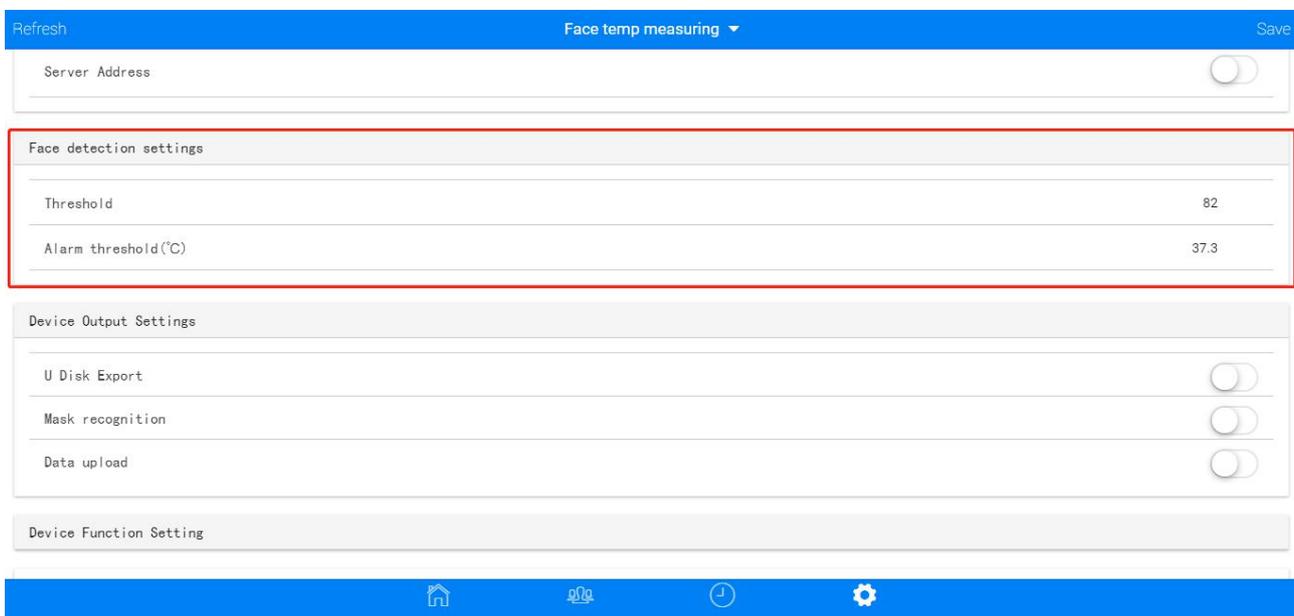
### (1) Temperature unit

Celsius and Fahrenheit are optional.



## (2) Face detection settings

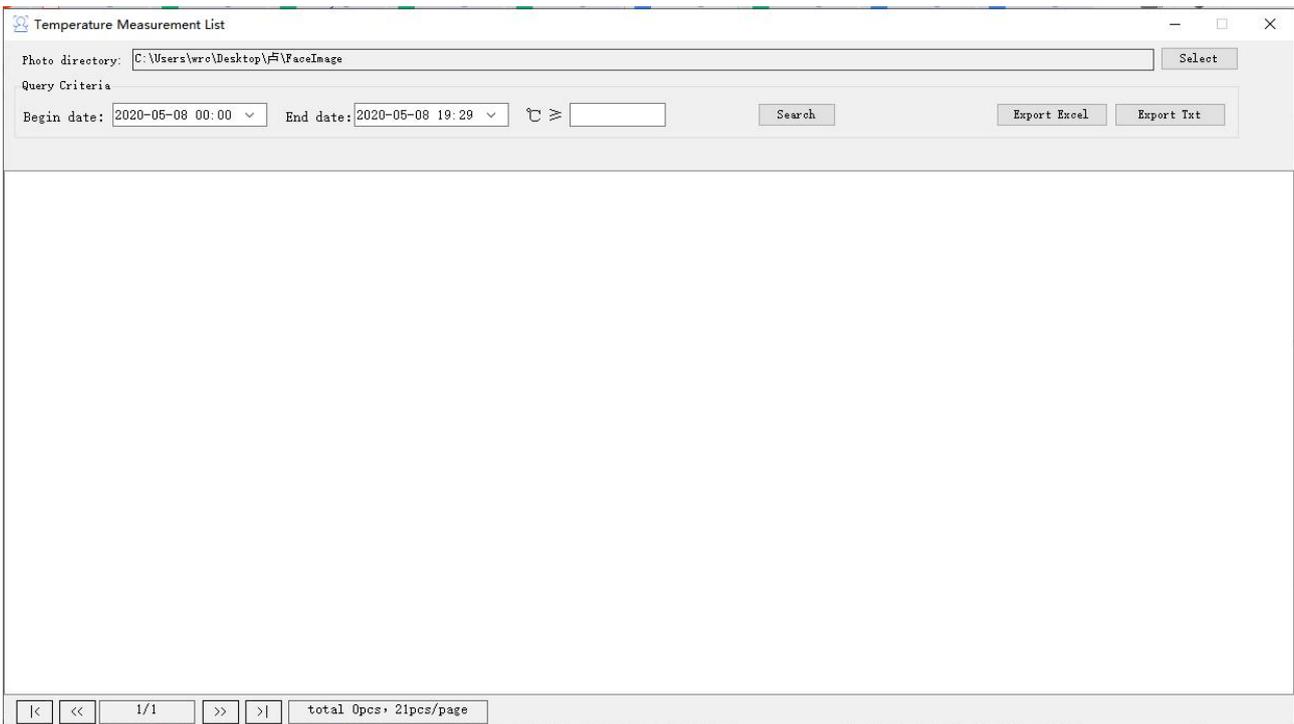
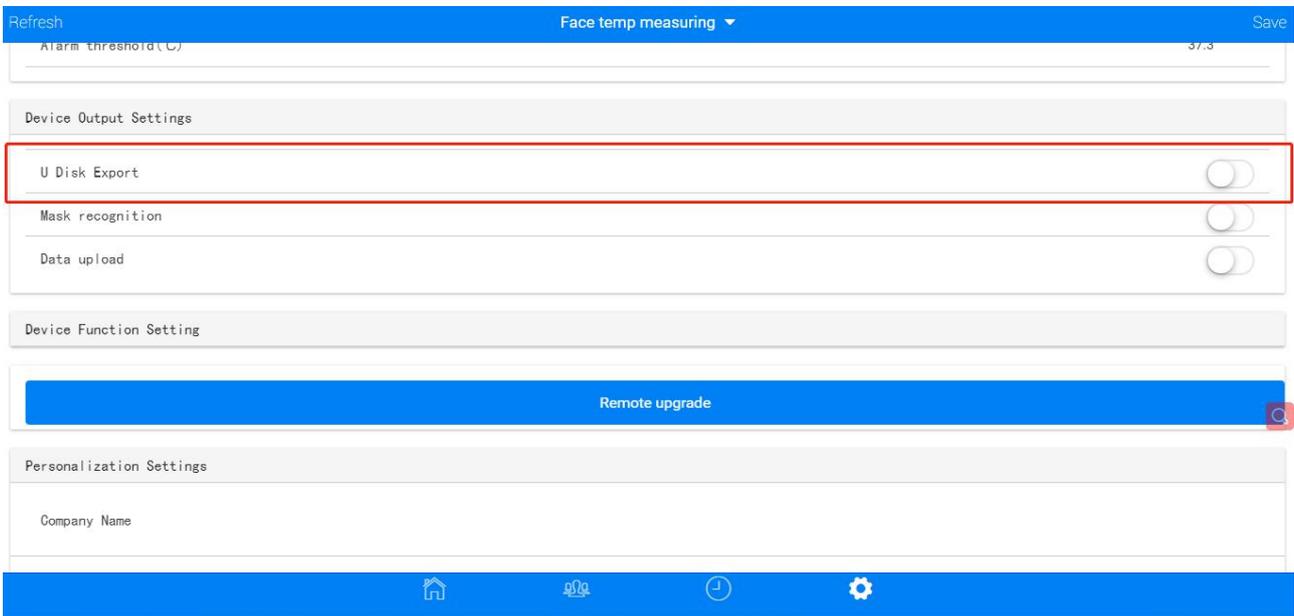
The higher detection threshold be set, the stricter the facial recognition become; default value is 82, recommended not excess 90, or will reduce identified speed. The default of alarm threshold is 37.3°C, which could be set.



## (3) Export pictures and EXCEL data sheets

- find "Settings -- device output Settings -- U disk export" in background Settings, open "U disk export" and save.
- Insert the U-disk (FAT32 format) into the USB port of the device and wait for a few seconds. The device will automatically export data into the U-disk, and data will be saved in the "Facelimage" folder in the u-disk root directory.

- Connect the u-disk to the computer, open the PC software "ImageSearch", select the corresponding folder and click "search" to view the matching image, and click "export" to export the EXCEL sheet.



#### (4) Mask recognition

- When enabled, the device detects whether the user is wearing a mask and sends out a voice prompt.

Device Output Settings	
U Disk Export	<input type="checkbox"/>
Mask recognition	<input type="checkbox"/>
Data upload	<input type="checkbox"/>

### (5) Data upload

- When enabled, the temperature information will be transmitted to MDM cloud platform.  
The website of MDM( Please register) : <https://ucare.urovo.com:911/customerui/login>

Device Output Settings	
U Disk Export	<input type="checkbox"/>
Mask recognition	<input type="checkbox"/>
Data upload	<input type="checkbox"/>

### (5) TEMP compensation

- When the environment is too cold or too hot, certain temperature compensation can be set.

Device Function Setting	
TEMP compensation	0

### (6) Remote upgrade

- Upgrade package resources are published regularly and devices can be upgraded remotely.

Refresh		Face temp measuring	Save
Mask recognition	<input type="checkbox"/>		
Data upload	<input type="checkbox"/>		

Device Function Setting	
TEMP compensation	0

Remote upgrade

### (7) Personalization settings

- Text and picture are supported for the personalized Settings, which will be displayed in the device interface.

Personalization Settings	
Company Name	
Company Logo	



## Appendix I: Face Recognition Notifications

- Facial Expression

To ensure face profile quality and accuracy, please be sure to enter / alignment process, maintaining the natural expression, do not wear jewelry, sunglasses and other facial features affect the collection.

- Face pose

To be sure of the face guarantor of quality and accuracy ratio, be sure to enter / process, the guarantor face is on the entry window comparison.

- Face re-size

During the registration process, please try to make the face in the center of the window position.

## Appendix II: Installation Environmental Considerations

1. Installation ambient light value

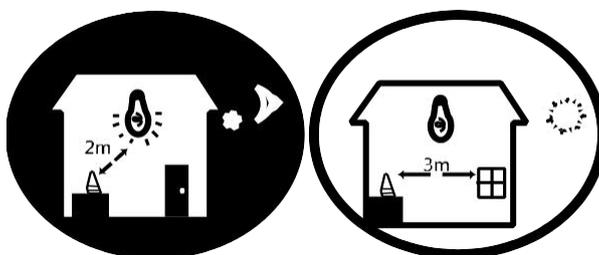
Candle: 10 Lux

Lamp: 100~850 Lux

Lamp: 100~850 Lux

Note: Minimum illumination device support for 100 Lux.

2. Mount the device in the room, at least 2 meters from the light source. At least 3 meters away from the window and the door.



3. Avoid back lighting, direct sunlight, direct sunlight through the window, through the window slanting sunlight, light close-range raying.
4. Recommend installation height is 1.2m-1.5m