

## uni-ubi Uface 5 OS-M355C3-V-R23WFC Temp AI Face Recognition System User Guide

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# UNIUBI

Temp AI Face Recognition System  
User Guide



Uface 5 OS-M355C3-V-R23WFC

**Dear customer:**

Thank you for using our product. For better use, please carefully read this instruction. If you have any issues not mentioned here, please contact the provider. All parts of this booklet are reserved by our company, including words, pictures and graphics. Without written permission, no unit or individual shall extract, copy, translate or edit the content in this instruction.

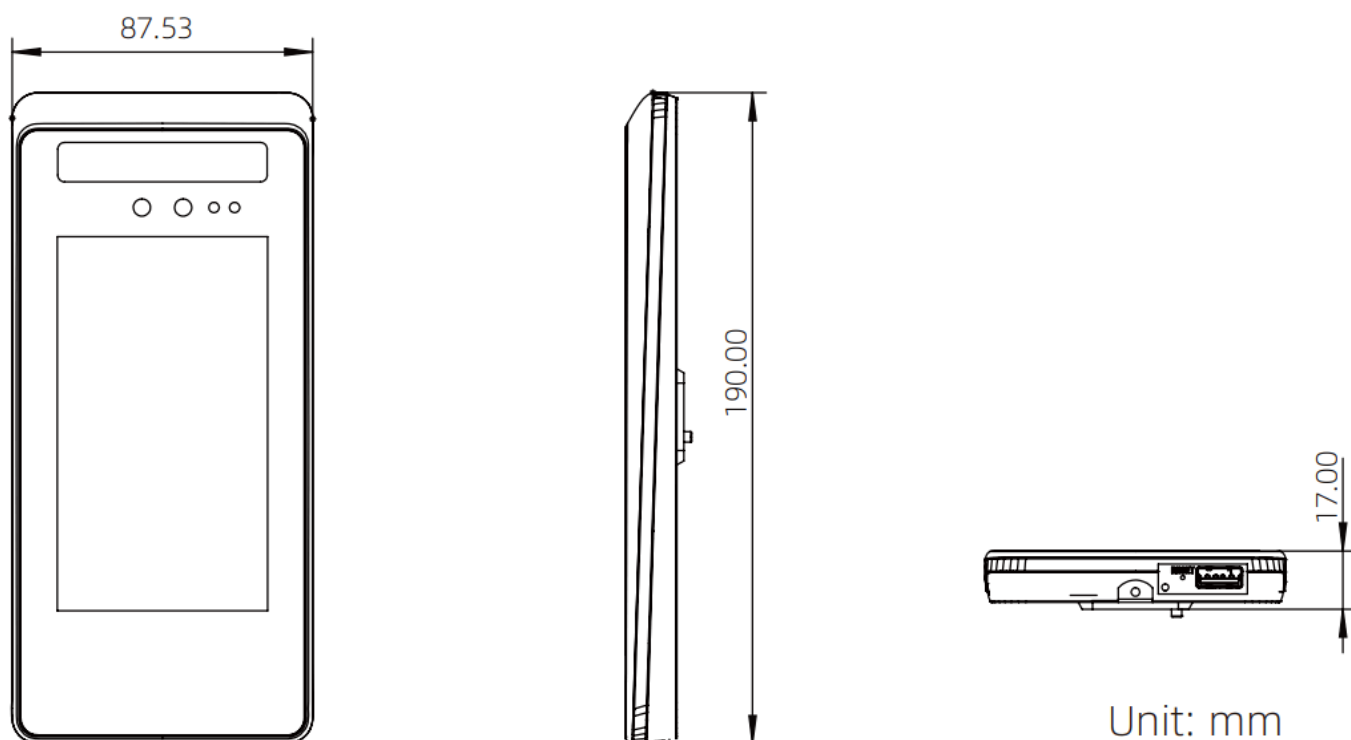
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**Parts list**

No.	Name	Quantity
1	Host	1
2	Power adapter	1
3	Support	1
4	Inner hexagon screw	1
5	Expansion pipes	4
6	Self-tapping screws	4
7	Hexagon wrench	1
8	Tali line	1
9	Installation sticker	1
10	Warranty card	1

**Dimensional drawing**

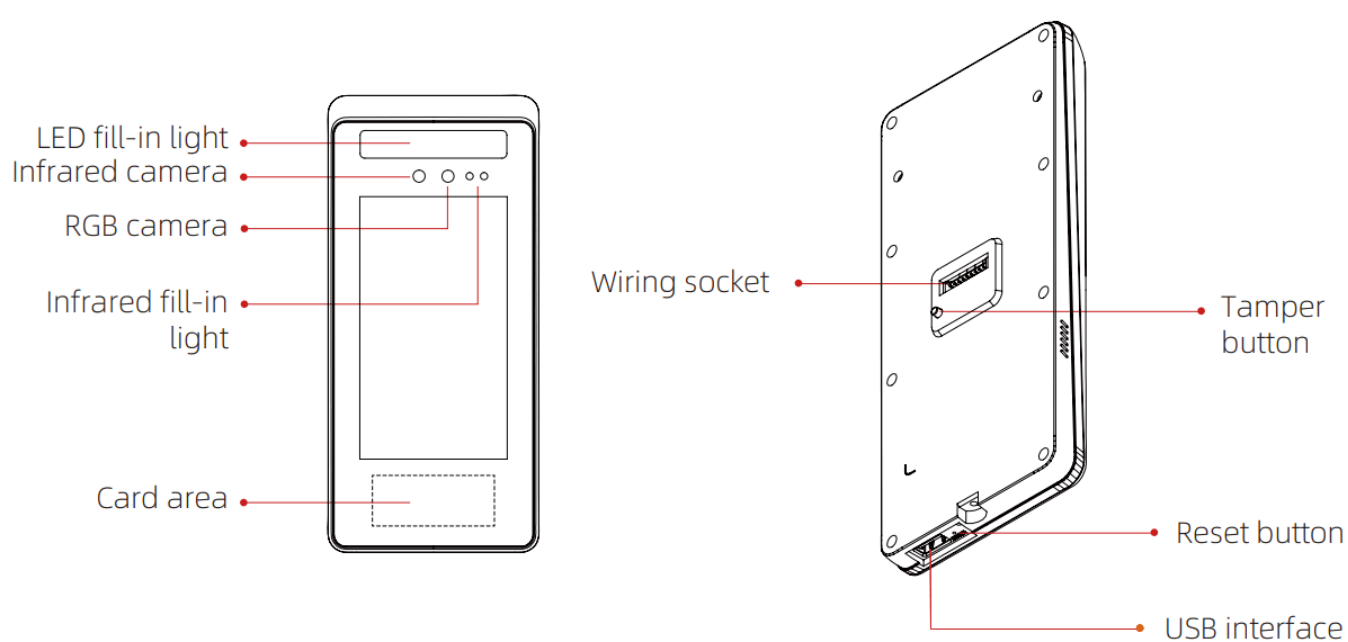


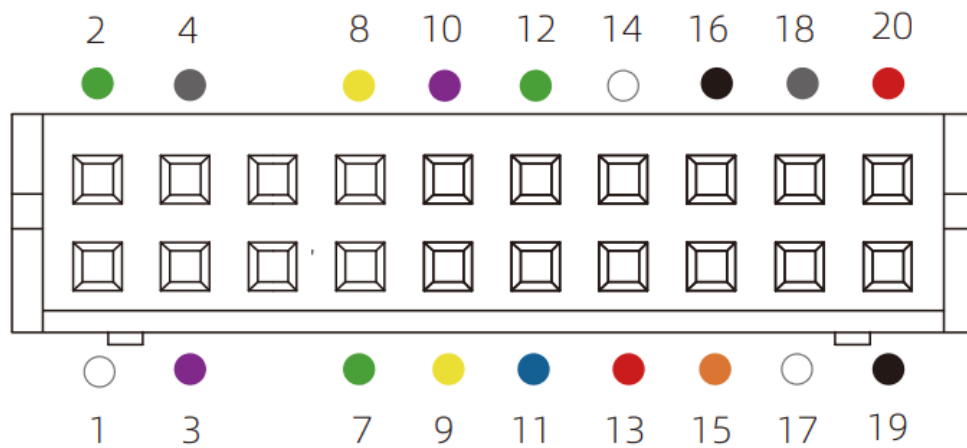
## Platform/Software Operating Instruction

The software carried by the product divides into 2 versions: WO (WO platform, provides the secondary development) and LAN (LAN version, provides the secondary development). Please mark the need for software version when placing the order. Please contact the customer service for another version if required. For a more detailed platform/software instruction manual, please log in to the official website to download or contact customer service.

## Appearance description

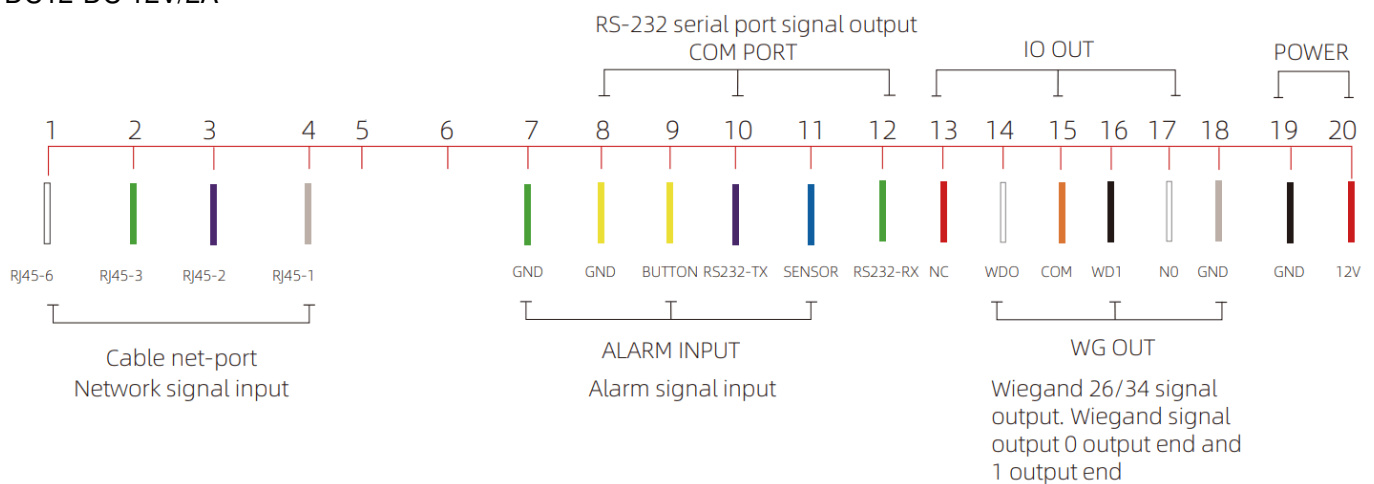
### Instruction





Relay digital signal output. From left to right are: Normally-closed contact, normally-open contact, common wall. Please connect according to your own needs.

Power positive and negative. If power is connected reversely, the device will not start. Power adapter requires DC12-DC 12V/2A

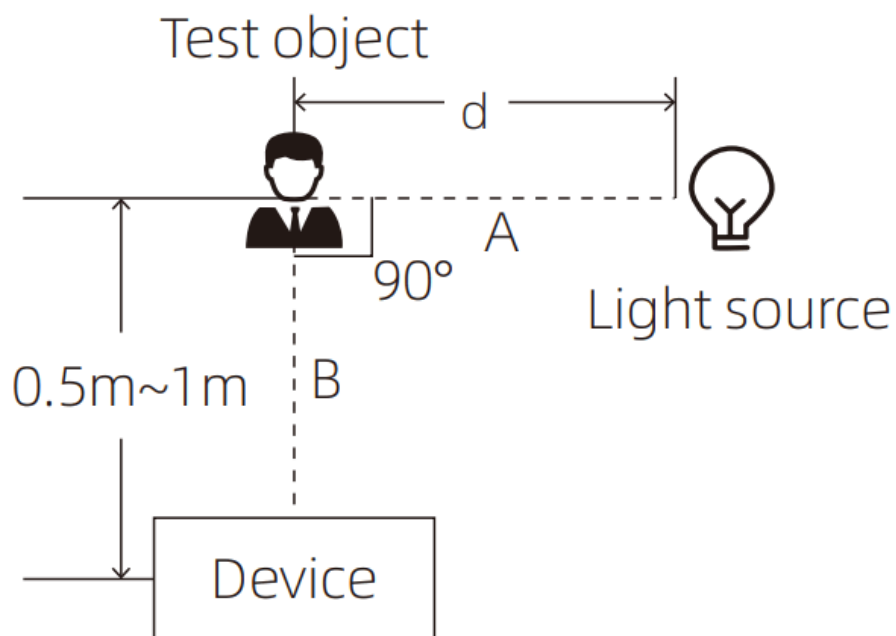


## Illumination intensity

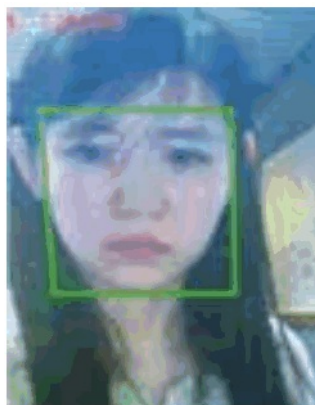
The recognized face, of which, the illumination intensity ("intensity" in short) shall not be lower than 30 Lux. The device has fill-in light itself, so when the device is put in a totally dark environment, the face illumination intensity, 0.5m distance to the device, is about 100 Lux. The nearer to the device, the higher the intensity is. If there is overexposure on the face, the face characteristics will be unable to be extracted and may lead to hard recognition.

### Intensity test

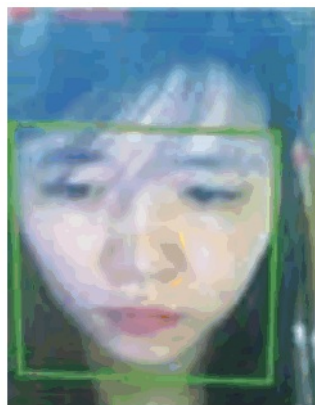
The test standard is as shown on the picture: the angle between dotted line A and dotted line B is 90°, the test adopts the common light meter with full-spectrum, and applies U30 standard light source; adjust the distance between source light and test object, subject to the illumination intensity of the object's face at this time.



### Reference to intensity



30 Lux, dim



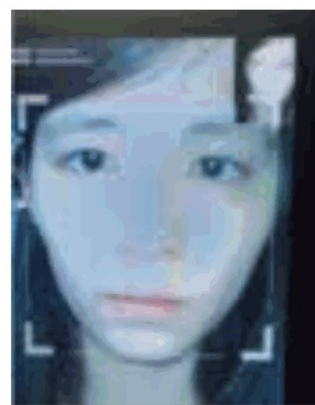
50 Lux, normal



100 Lux, bright



300 Lux, slight exposure



500 Lux, overexposure

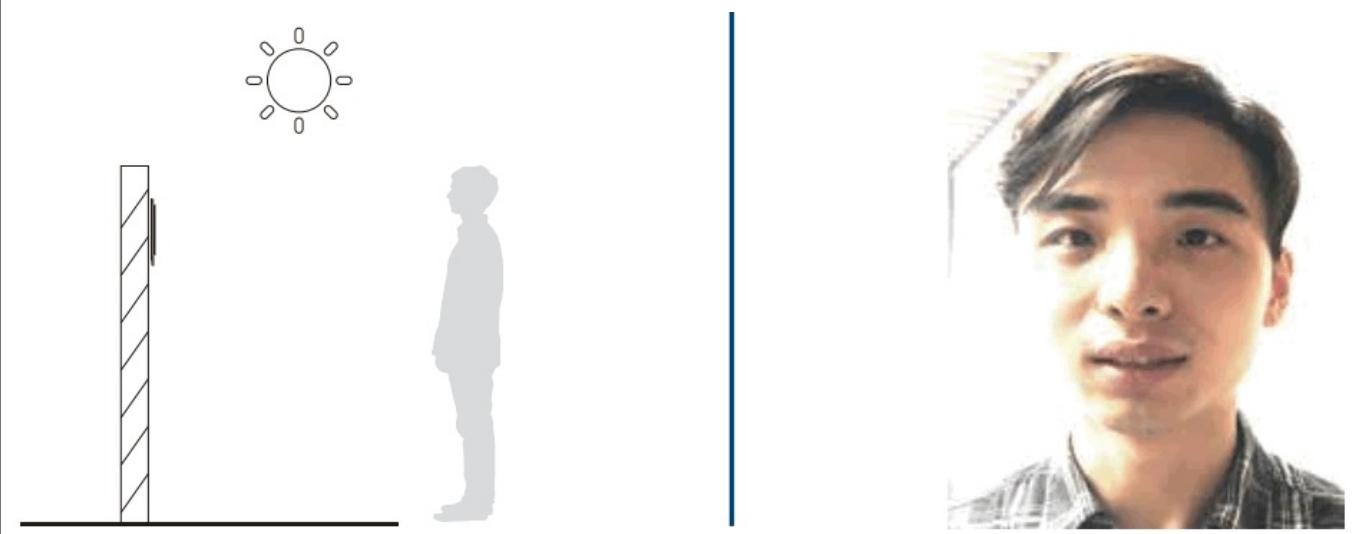
### Illumination intensity in actual scenarios

Light issues may lead to big differences between site image and registered image; backlight, side-light, and strong light will influence the recognition experience.

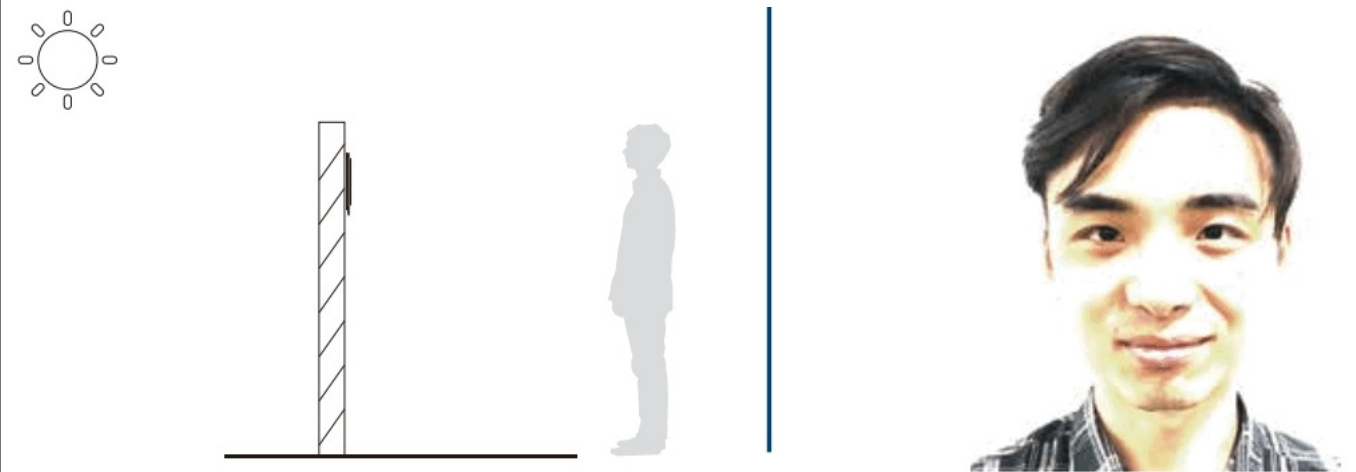
(Analysis: from the view of human eyes, the color changes on face skin may result in wrong recognition of identity;

unclear exposure area, no matter large or small, may influence the identity judgement.)

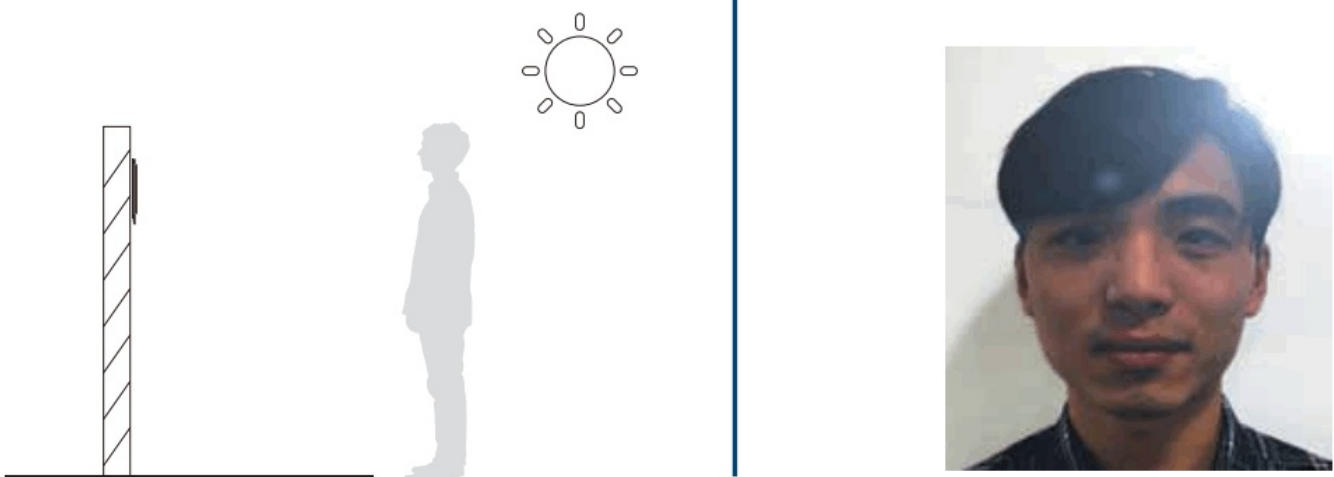
### Side light

Light source is near the object	Side-light may lead to uneven light on the face
	

### Strong light

Device stands between the light source and object	Direct strong light may cause overexposure
	

### Back light




Object stands between the device and light source	Backlight may make the face too dark
	

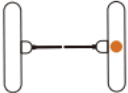


### Improvements




1. Install the device in a place with little impact from light source.
2. Add a registered image according to the site condition, and it is suggested to use this product to enroll images.
3. Properly lower the threshold value according to usage.


### Position

Device shall be installed in places avoiding backlight, side-light and strong light.

	This place, 3m away from the window, or does not influenced by sunlight, can be considered for installation.
	Backlight, side-light or direct strong light, not suitable for installation.
	Other areas, install in suitable places according to actual light impact.

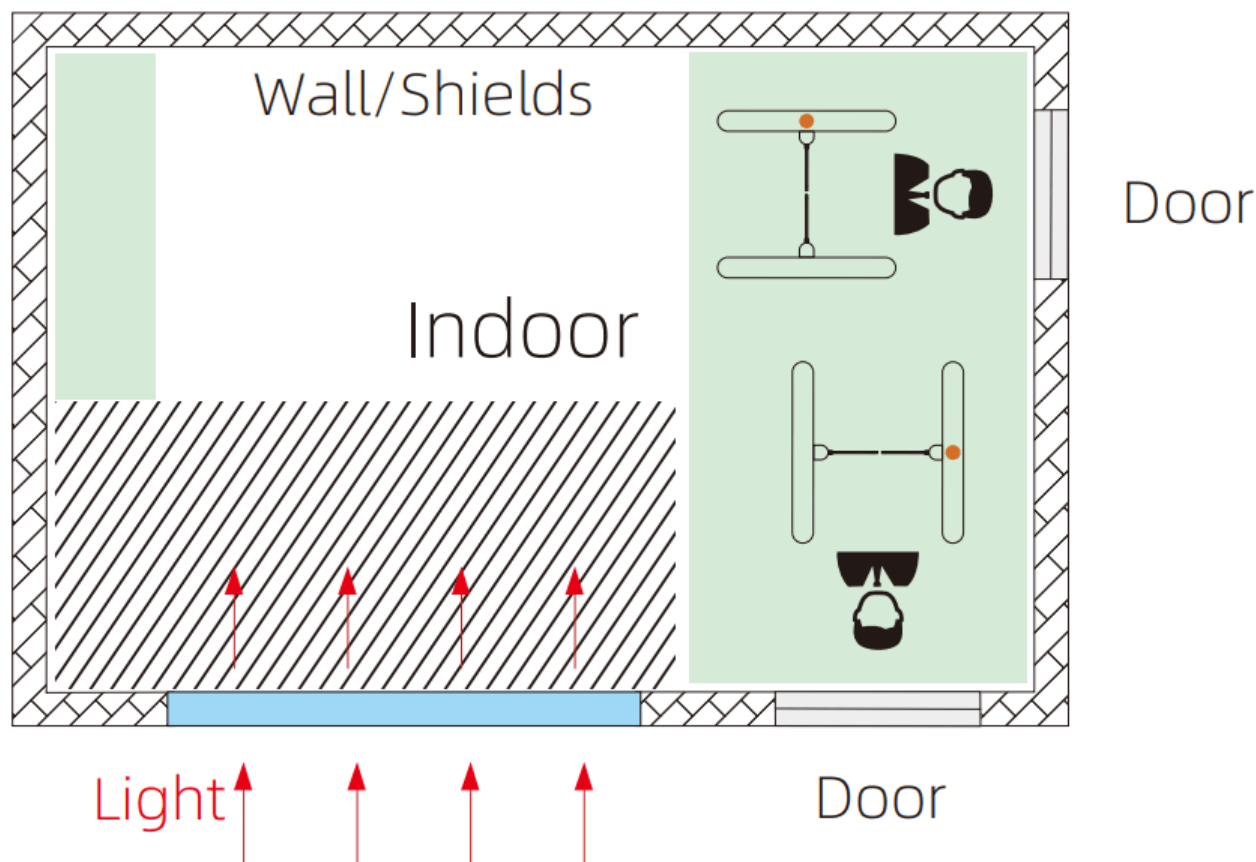

Device

Person

Light


Wall

Curtain

Door


Glass window (same as the semi-outdoor scene with no walls)

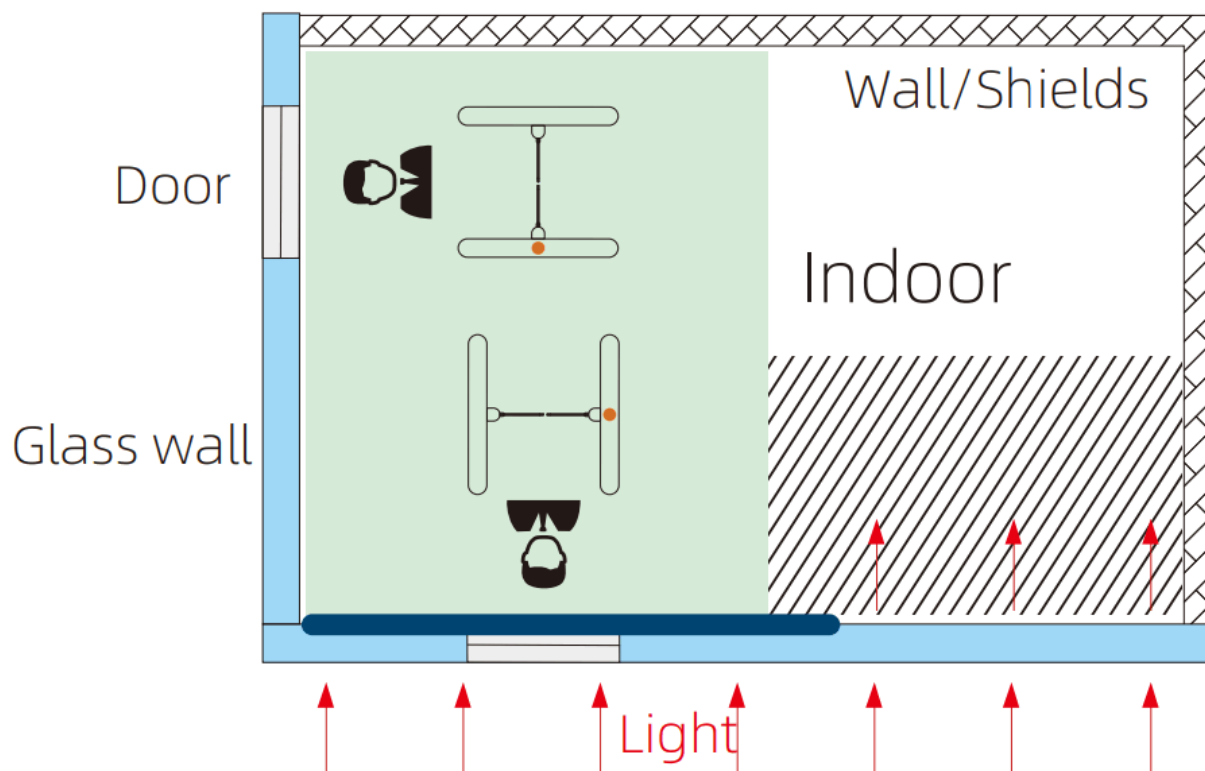
### Sunlight shines indoor

When the sunlight shines indoor through the window, the face recognition terminal device shall not be installed in shown black shadow area, instead, shall be installed in place with little sunlight impact, no side-light and no backlight. (Glass window can be deemed as no walls)



### Glass window

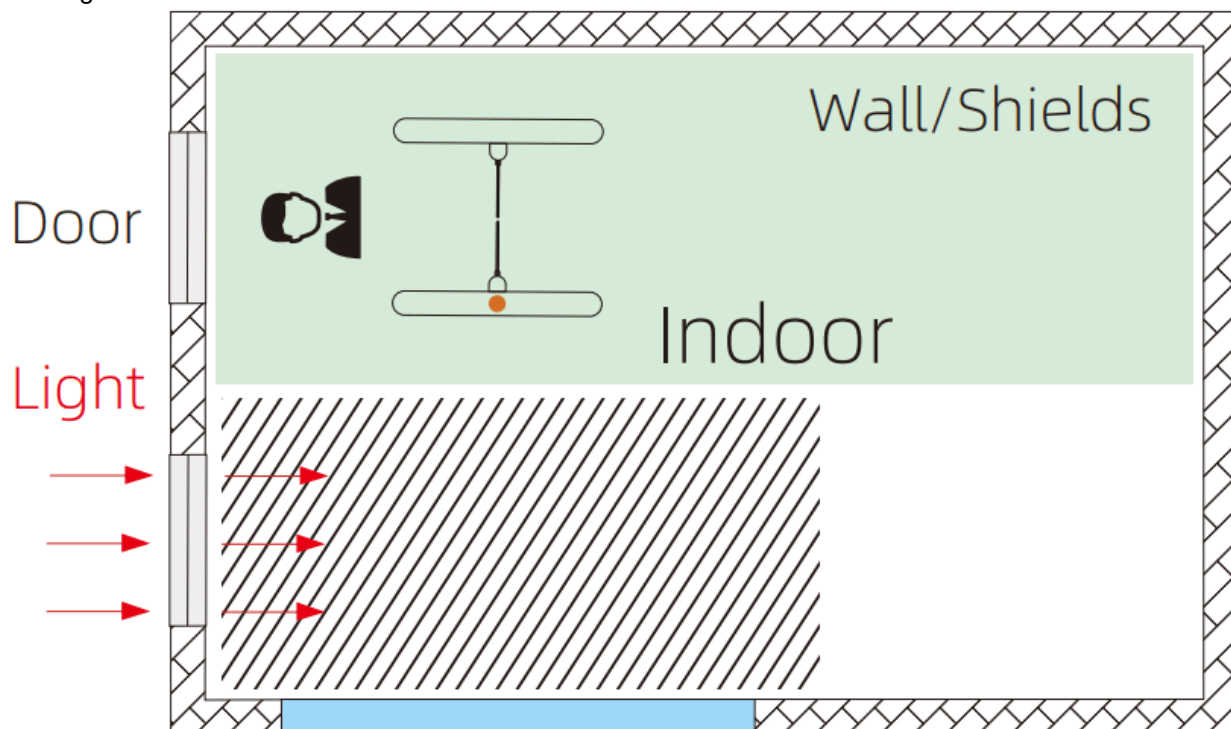
If the room has glass wall, there is no shield for sunlight, then it is suggested to hang curtains over the window, and install the device in place with shield to avoid direct sunlight influencing the recognition. (Glass window can be deemed as no walls)





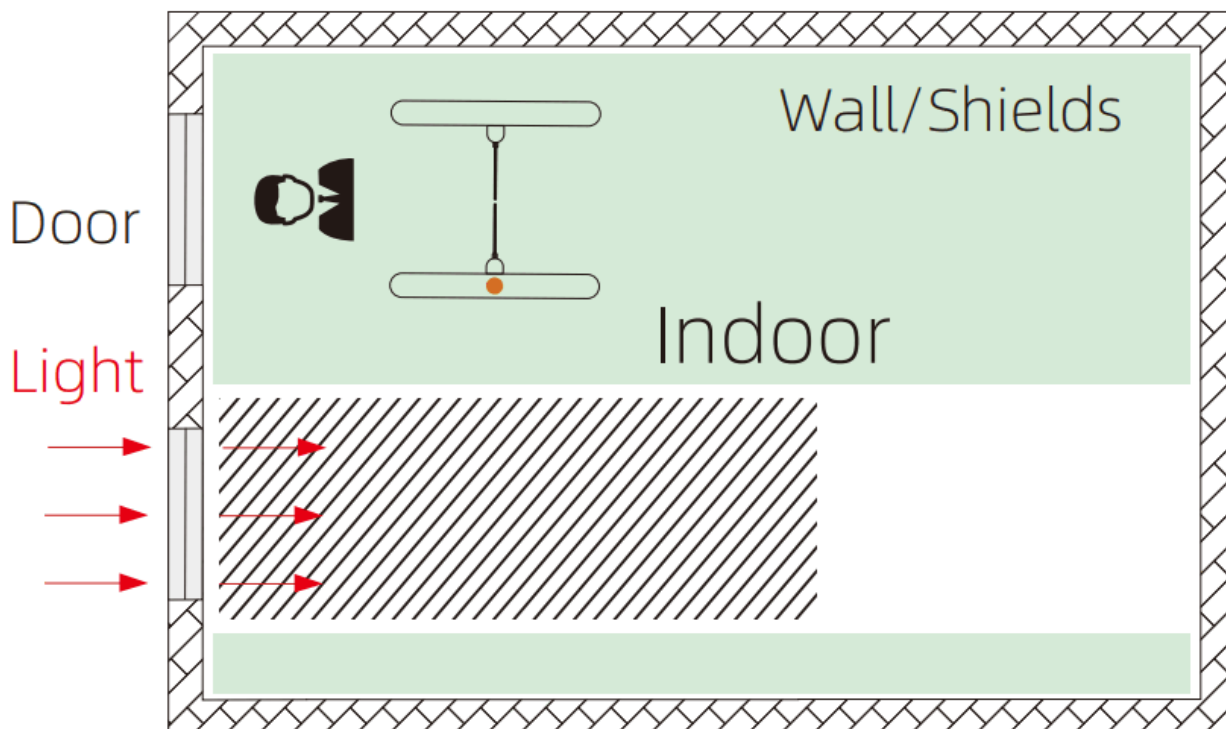
**Sunlight shines through the door, with glass window at one side**

Sunlight shines through the door, the device shall be installed at the place with shields and little light impact. Glass window can be deemed as no shields, the device shall be installed at the side without glass window or with curtain hung.

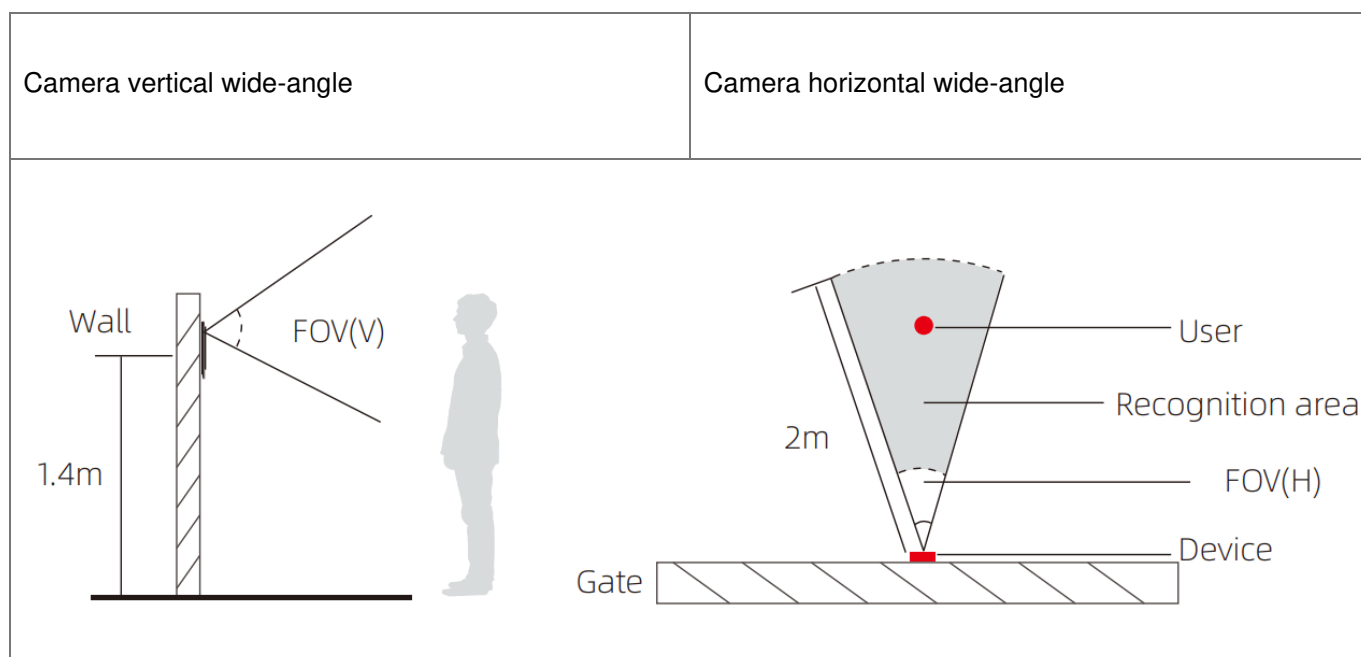


**Sunlight shines through the door**

Sunlight shines through the door, the device shall be installed at the place with shields and little light impact.



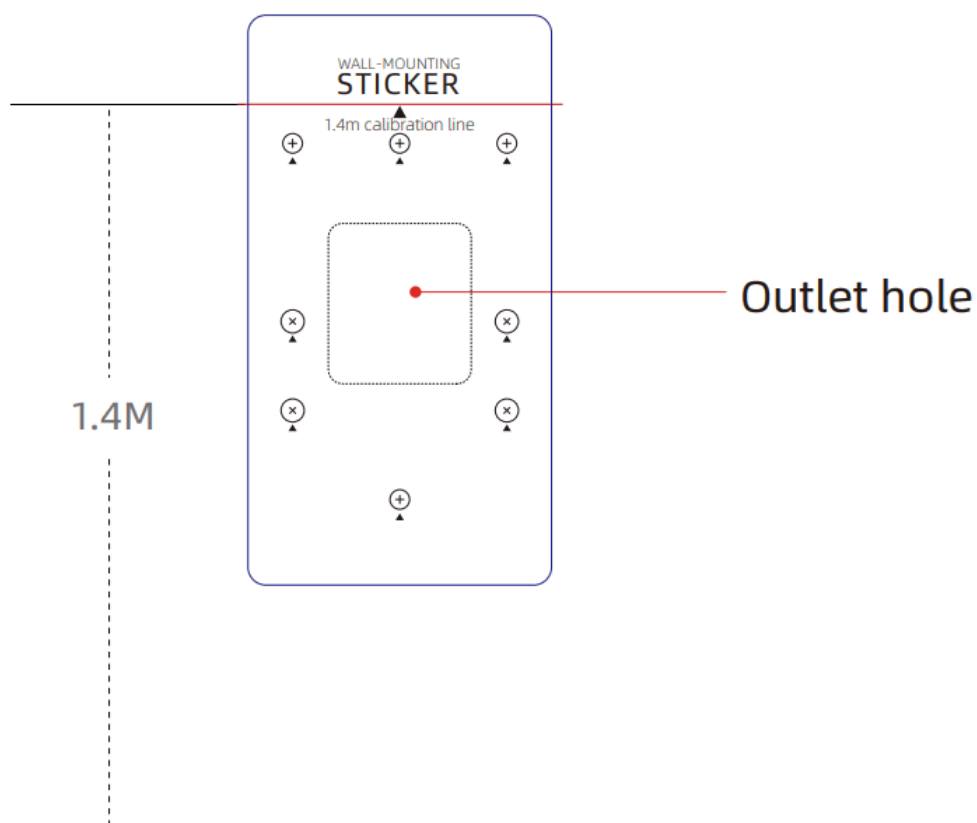
**Height**



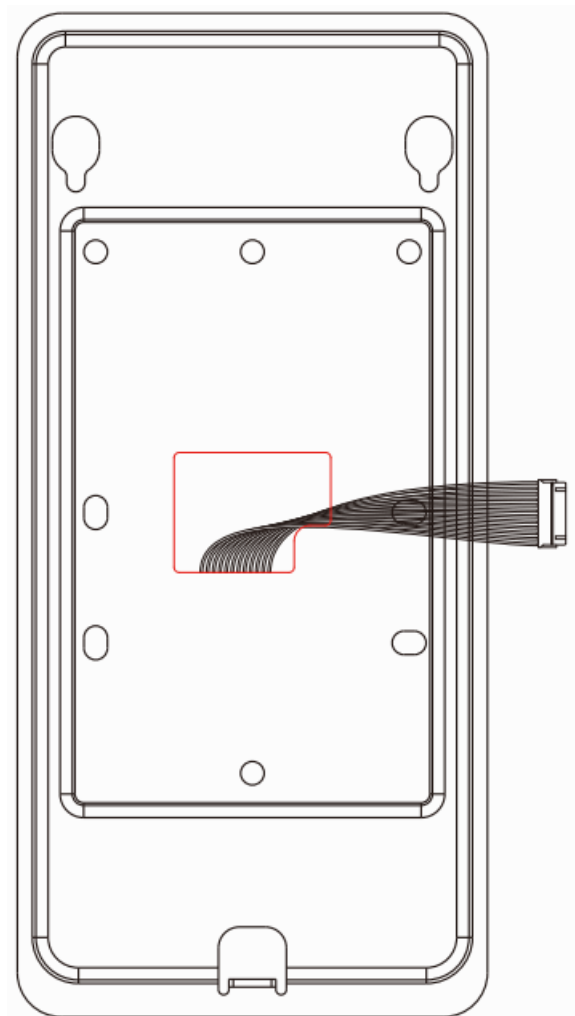
Suggested installation height (the distance between the lens and the ground) is 1.4m, as the recognizable body height range, 0.5m distance away from the device, is 1.3m-1.7m; the recognizable body height range, 1m distance away from the device, is 1m-2m. (There are some deviations)

## Steps

1. Paste the installation sticker on the wall, and keep the horizontal line parallel with the ground and the red line 1.4m distance to the ground; drill screw holes on suitable position on the wall according to the installation method (if use 86-box, then no need to drill holes), drill 1~2 outlet holes according to wiring need.

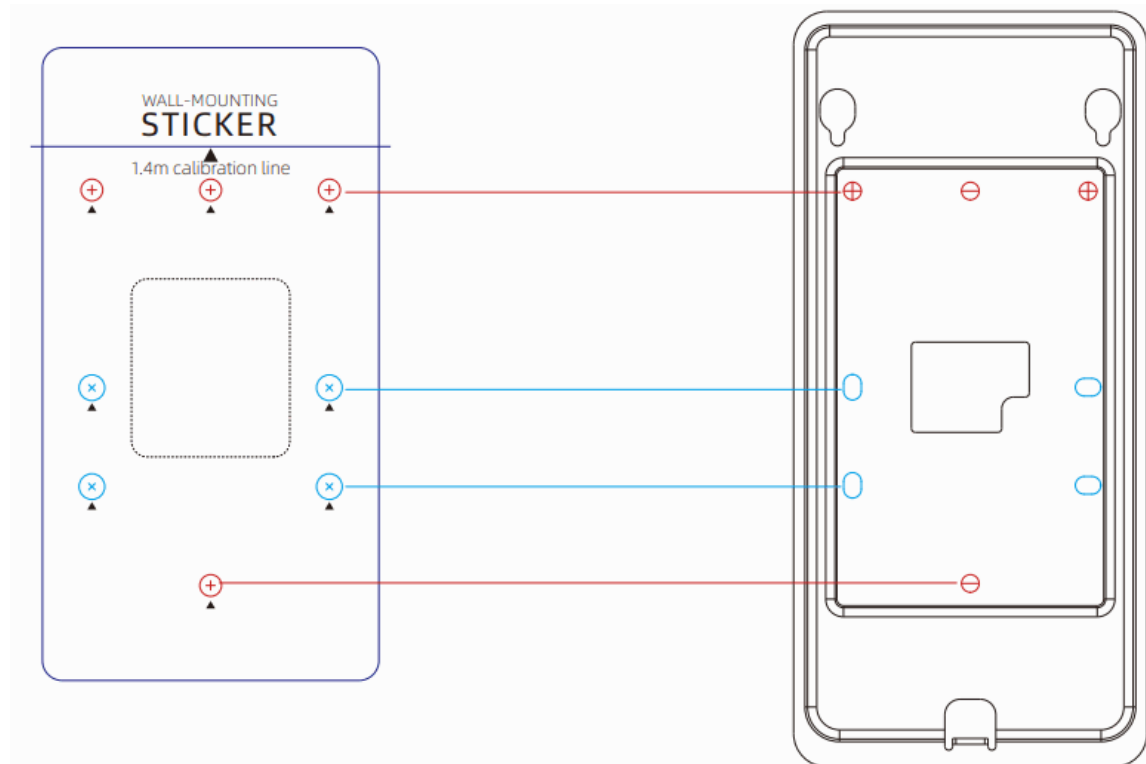


2. Install the thermometer sensor on the support, connect power cable, network cable and other wirings, then thread the tails out through the outlet hole.



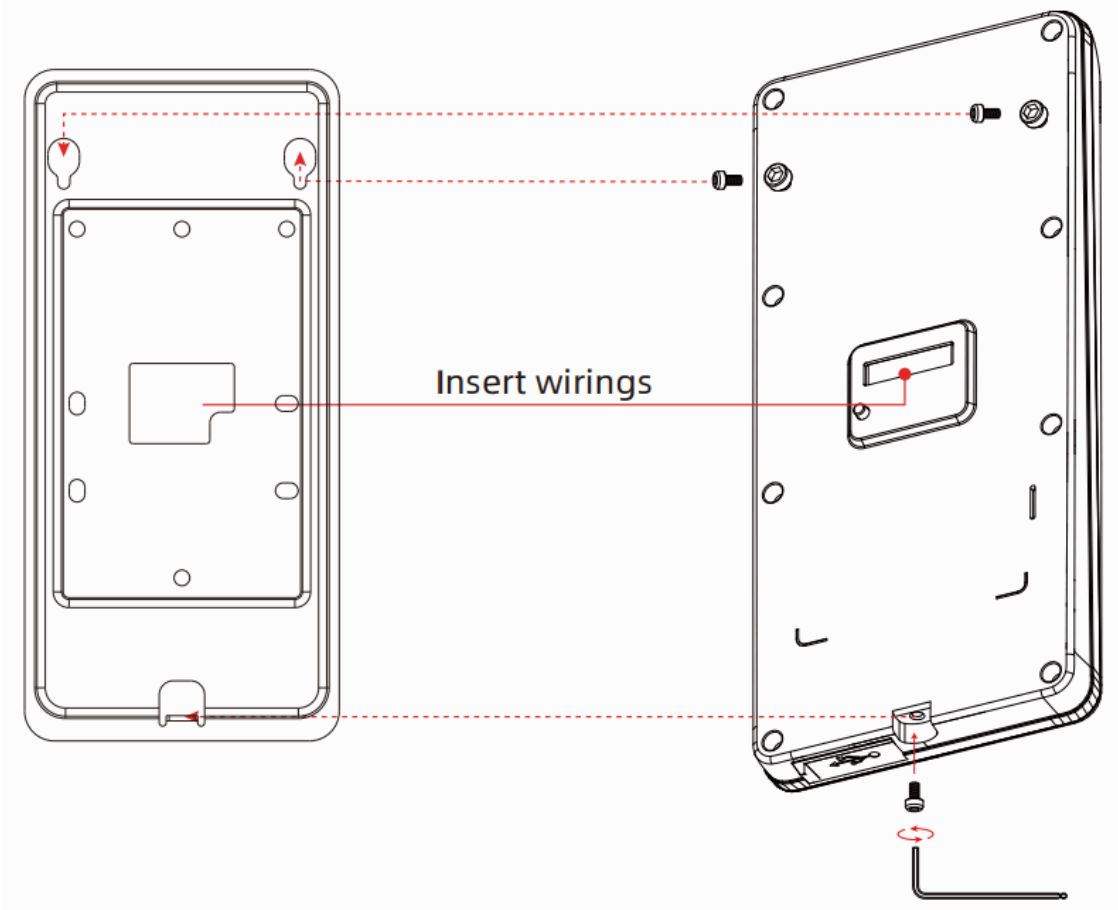
3. Move the support to align holes on it with holes on the wall, and use the screws to fix the support.

**Attention:** If the wall has hard foundation, self-tapping screws shall be used together with expansion pipe; if the wall has soft foundation, use self-tapping screws directly.



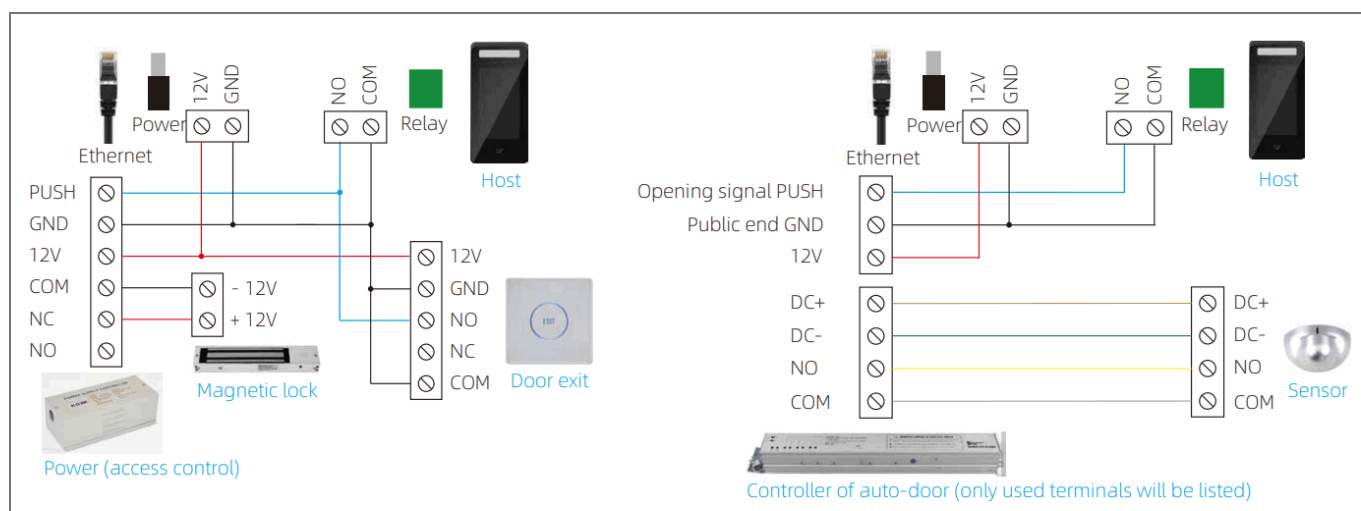
4. Install the trapezoid screws on the host, put tails inside the wiring socket, then align the installed trapezoid screws with the holes on support, hang the host on support, meanwhile, use the hexagonal wrench to tighten the screws via the shown direction.

Installation completed.



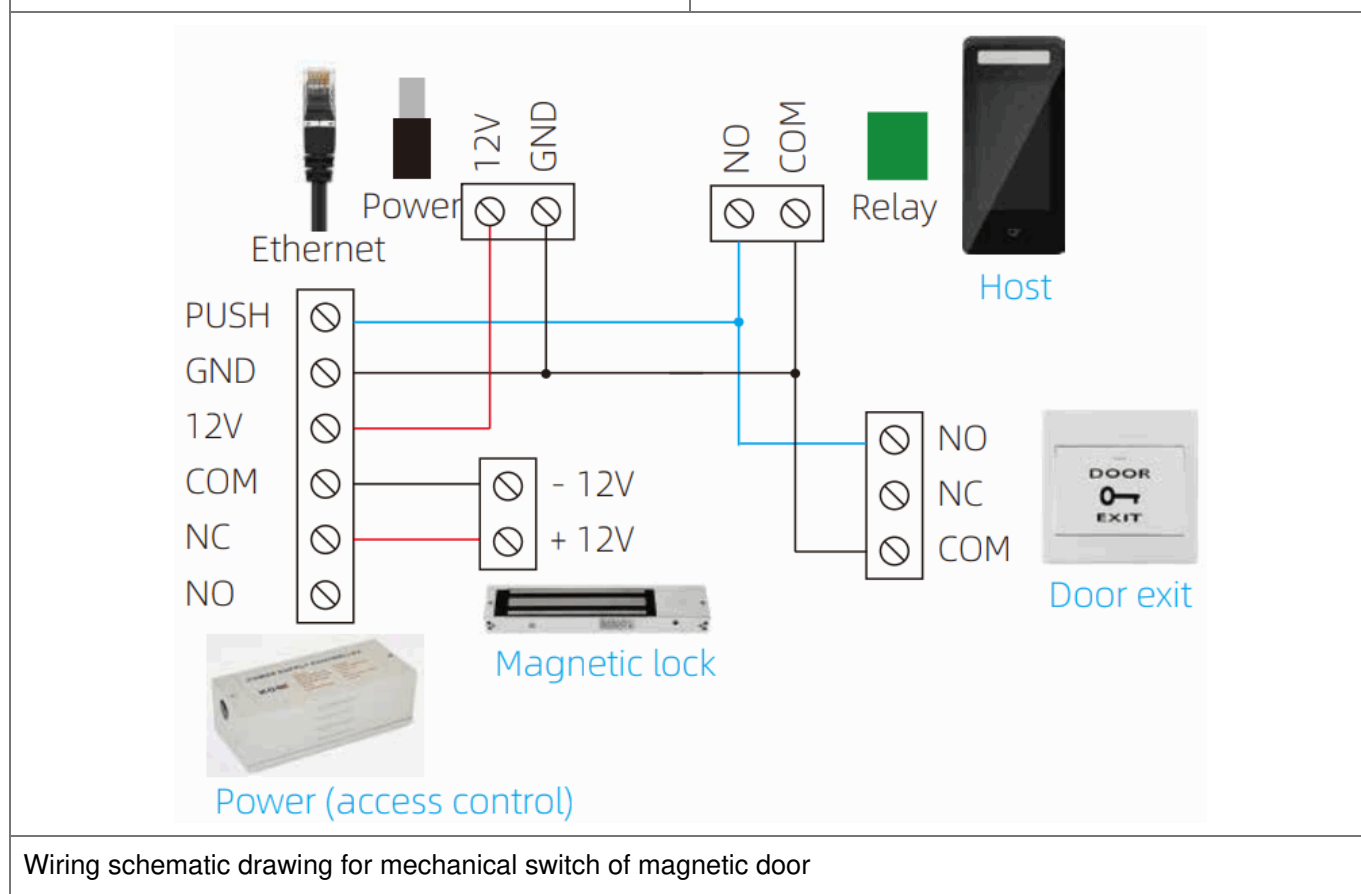
Wiring connection

Wiring for magnetic door	Wiring for automatic door
<p>Relay interface</p> <p>Host</p> <p>Ethernet</p> <p>Magnetic lock</p> <p>Door exit (inside)</p> <p>~220V</p> <p>Power (access control)</p>	<p>Relay interface</p> <p>Host</p> <p>Ethernet</p> <p>~220V</p> <p>Auto-door controller + assembly units</p> <p>Sensor (inside)</p> <p>DC12V</p>
System installation schematic drawing for magnetic door	System installation schematic drawing for automatic door



Wiring schematic drawing for touching switch of magnetic door

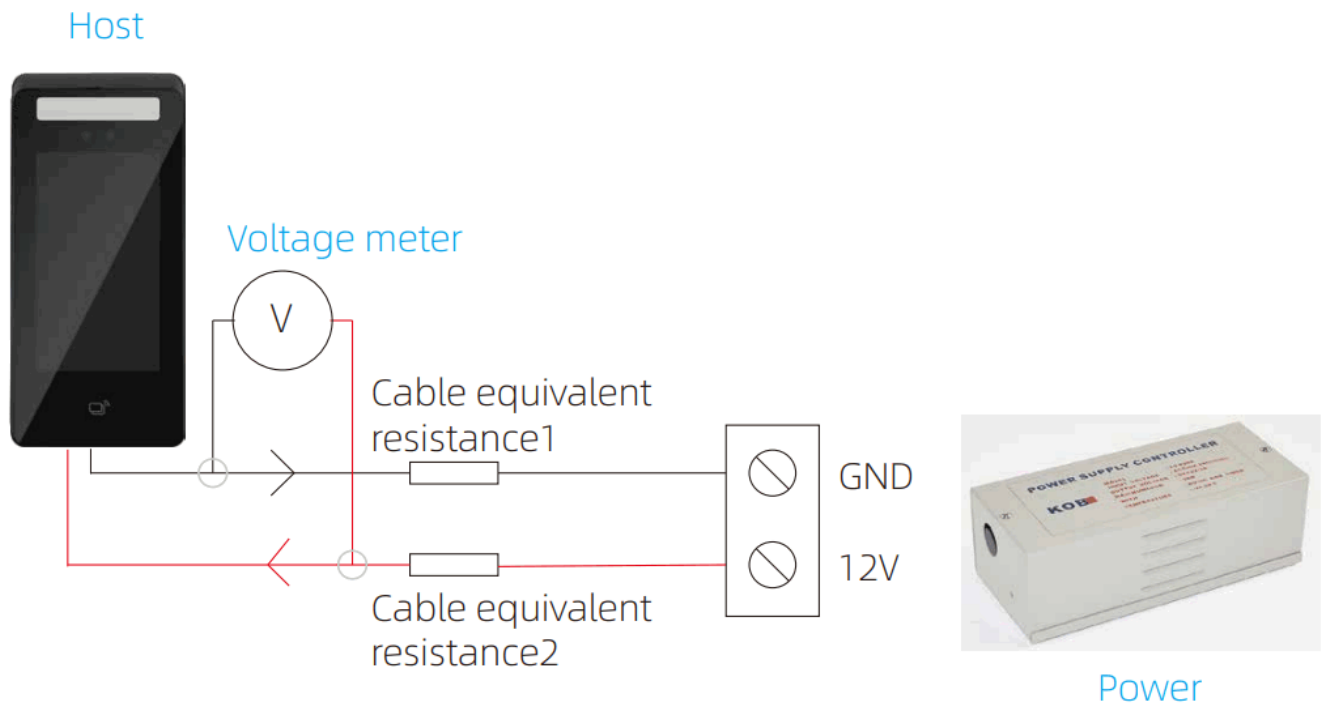
Wiring schematic drawing for sensor switch of automatic door



Wiring schematic drawing for mechanical switch of magnetic door

## Installation notes

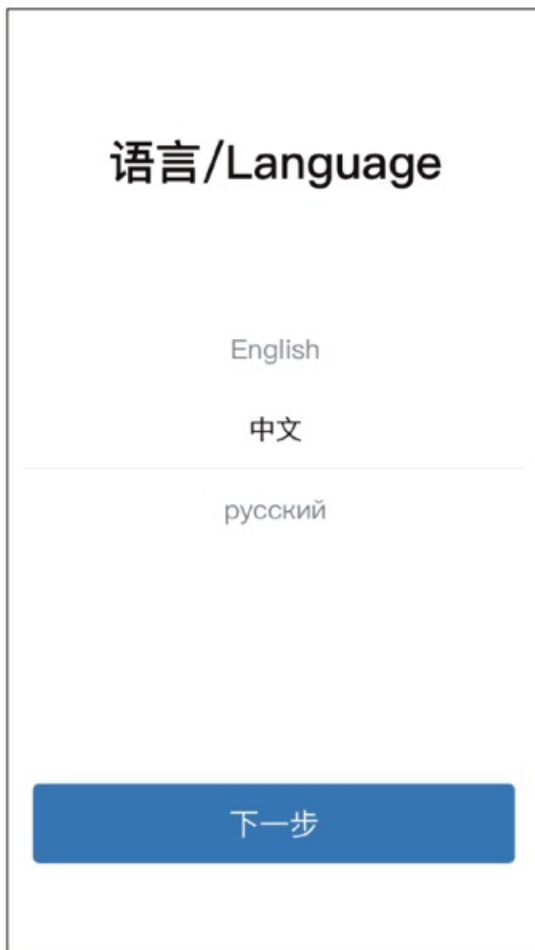
1. When arranging the wires, if the 12V power supply cable of the host does not adopt the "Special power strip" and is in long distance, resulting in large resistance, then abnormal phenomena may occur easily such as insufficient voltage ( $\leq 11V$ ), repeat restart, system crash and so on. Wiring connection of voltage metering is shown as follows.



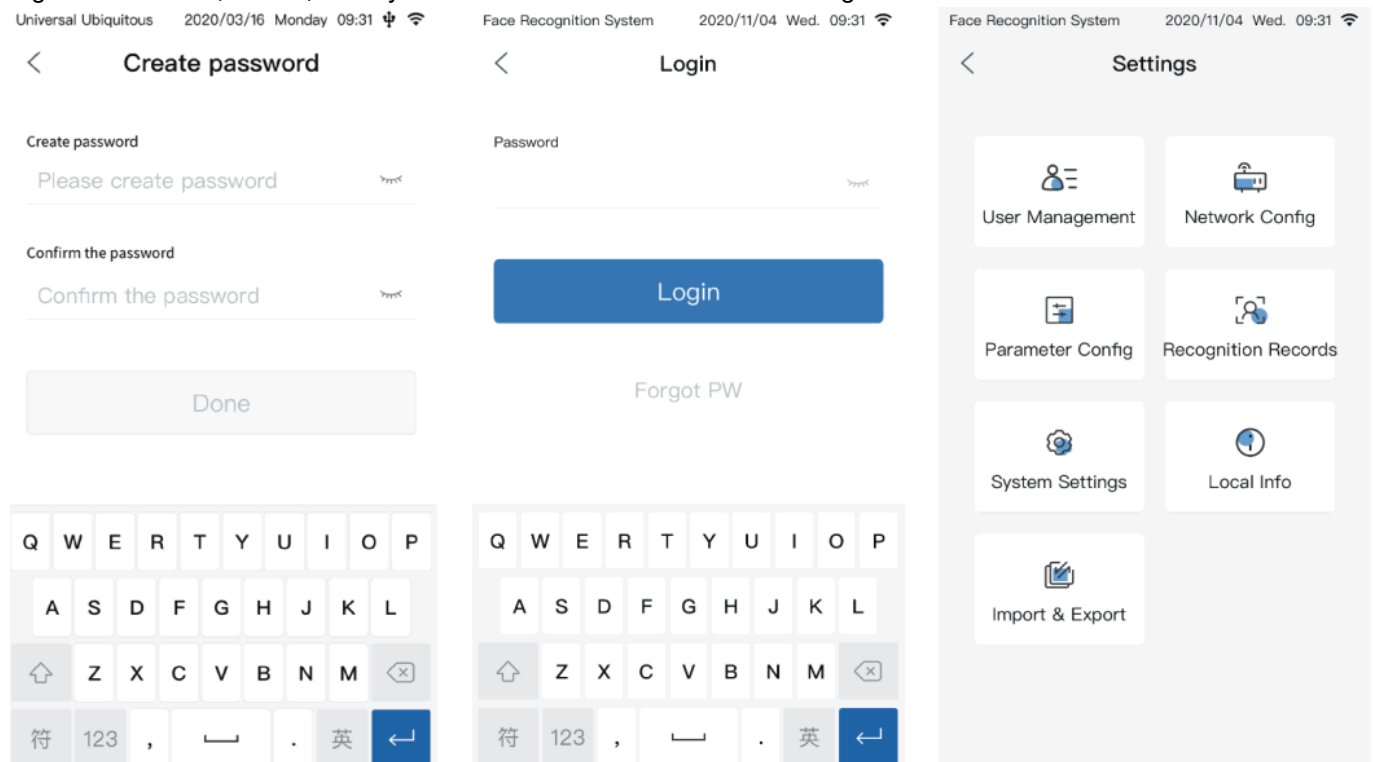
2. Power adapter (brought with the device) of different countries are optional, such as European standard, American standard, British standard and so on.
  - Extension of power cable (weak current) cannot exceed 2m, otherwise, it may cause insufficient power supply at the host end, and abnormal phenomena like repeated restart, system crash may occur. If the power is far away from the device, the power cable can be extended (strong current).
  - If other adapters, such as 9V and 1A, are used, insufficient voltage and low current will lead to repeated restart of the device.
  - The cable cannot be too fine (such as network cable and fine line), it is suggested to connect multi-strand cable in parallel or use copper core bold cable, to ensure voltage >11V.  
Note: If network cable is used, 4 strands of network cable shall be used as the positive pole and 4 strands as the negative pole.
  - If not clear with how to extend, please contact the provider to change "Special power strip".

## Operation Guide

For first-time boot, select the language and enter the Menu.



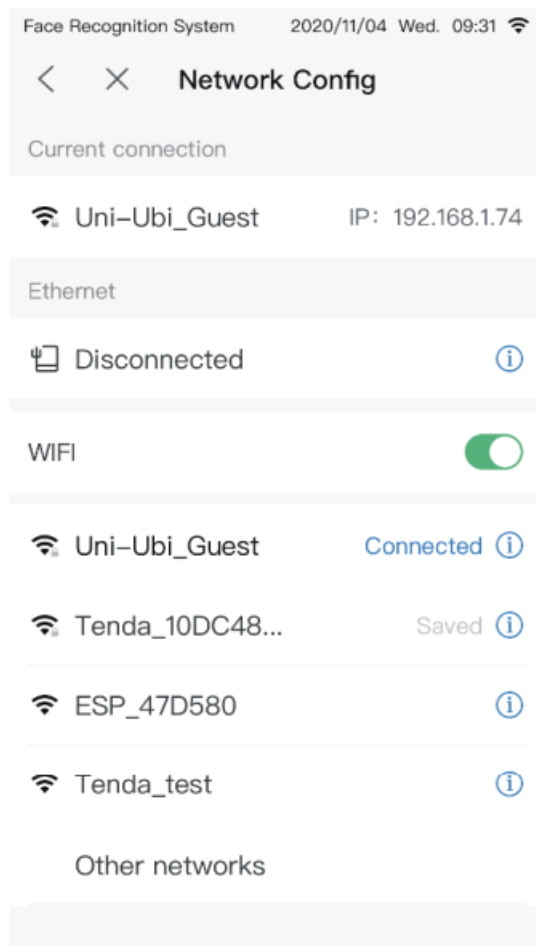
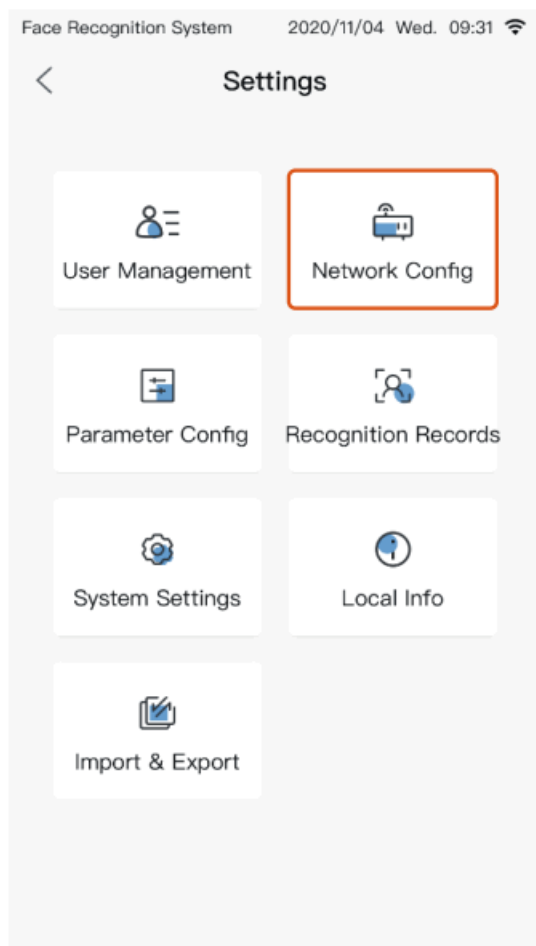
Click on the menu and set an initial password first and then set it again to reconfirm. The password requires 1-16 digits of numbers, letters, and symbols. Click Next to enter the Settings interface.



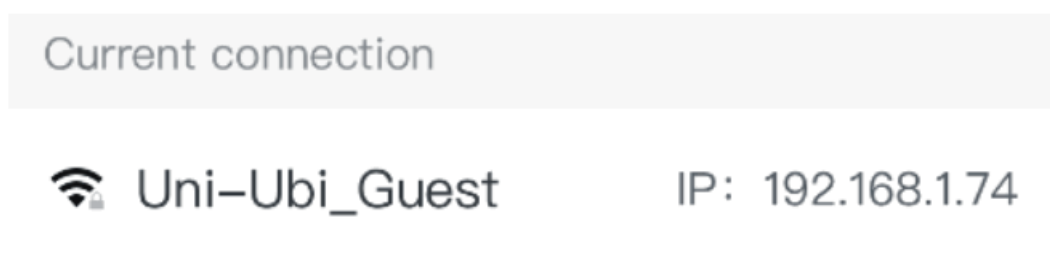
## Network Configuration



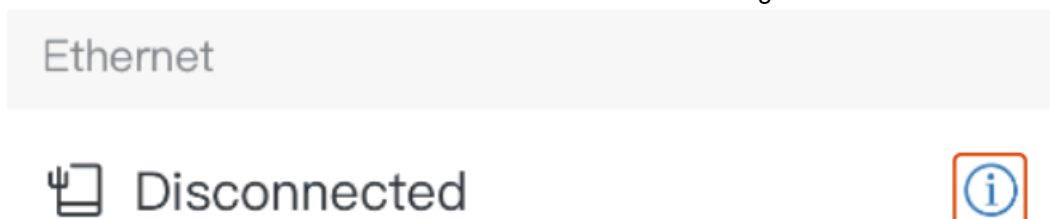
Click **Network Config** to enter the network configuration interface.



Current Network: Check the current network connection at Current connection.



LAN Configuration: Check the LAN connection at Ethernet and click to configure the LAN.



WLAN Configuration: Check the current WiFi connection at WiFi, click to enable / disable WiFi, click Connected to connect the WiFi, and click to configure the WiFi network.





WIFI



Uni-Ubi\_Guest

Connected



Tenda\_10DC48...

Saved



ESP\_47D580




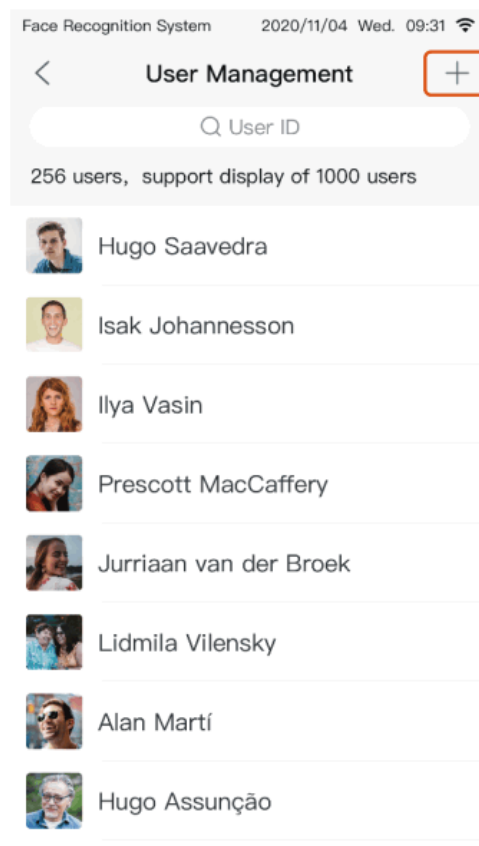
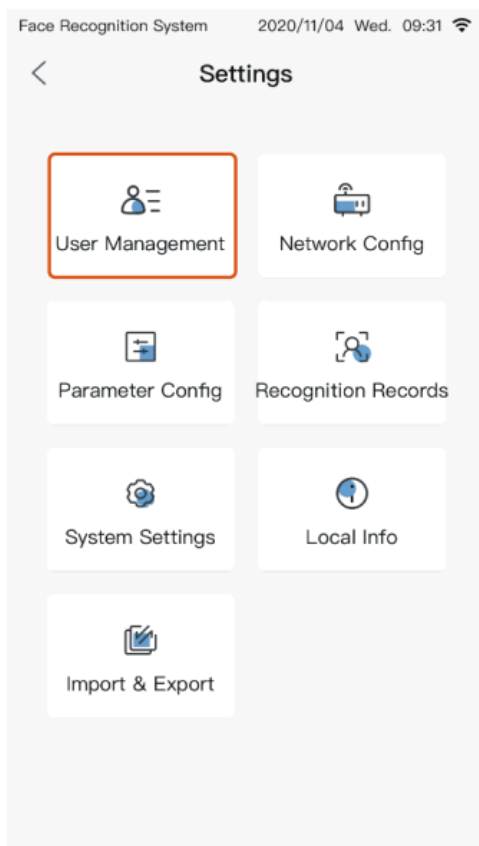
Tenda\_test




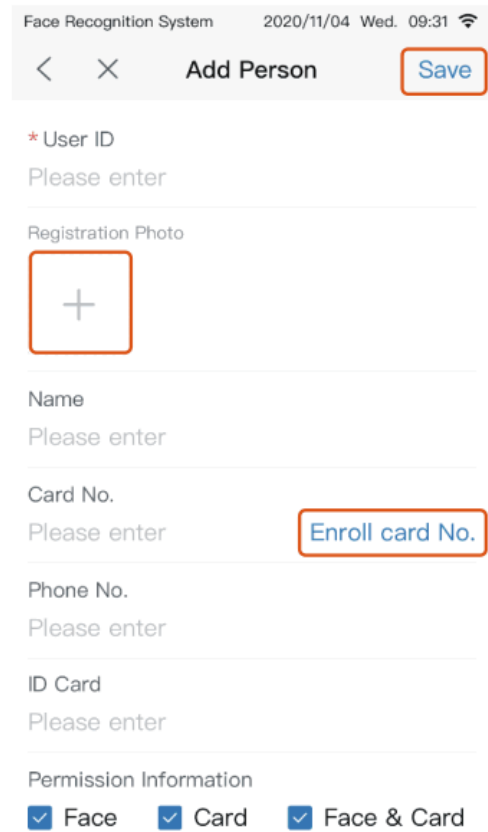
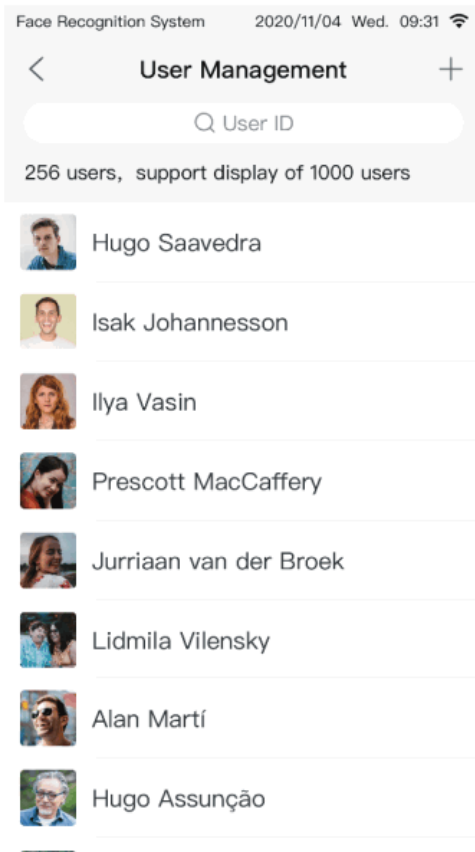
Other networks

### Add Personnel

Click  to enter the User Management interface. Click to add new personnel.

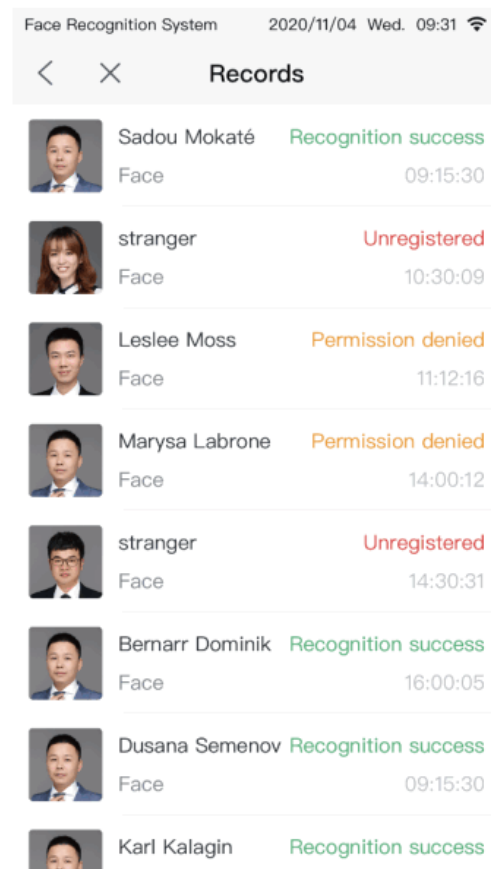
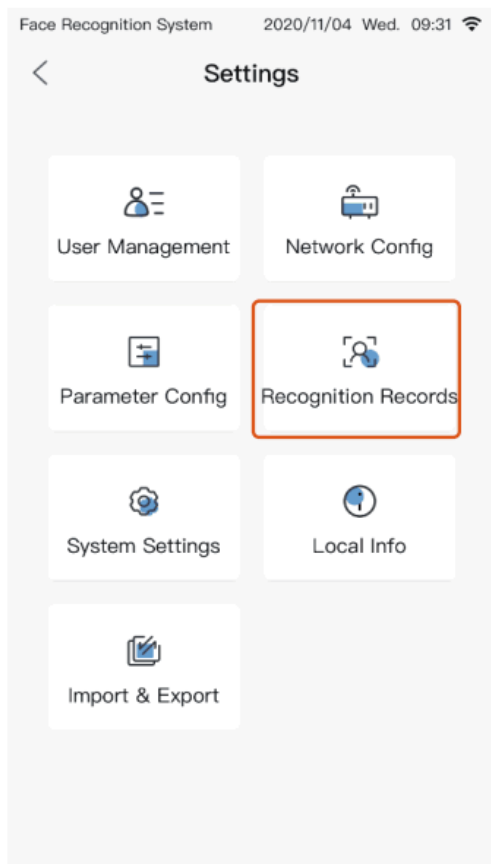


Enter personnel information following the prompt, click to add photos, click  Enroll card No. To swipe the card and enter the card number. After entering, click Save to save the personnel information.



## Check Records

Click to check the recognition records.



## Features

- Characteristics

Completely solve image frauds in all kinds of carriers with infrared and RGB dual-camera; the recognition accuracy is 99.99% ((99.77% recognition rate at 1% false accept rate; 99.27% recognition rate at 0.1% false accept rate).

- Store 10-thousand level database in local

(A) The device cloud platform supports 50 thousand faces (less than 400KB), 1 million recognition records (0.45KB), and about 100 thousand on-site photos; (B) The device LAN supports 50 thousand faces (each by 100KB) and 1 million recognition records (including the latest 10 thousand on-site photos).

- Quick recognition speed Recognition speed less than 1s.

- Secondary development (integrated)

Support the interface connection in HTTP; supports 232 serial output, Wiegand 26 and 34 output, custom the configuration of output content.

- Complete functions

Supports recognition distance configuration; supports stranger detection, and the stranger level can be configured; supports saving the on-site images of face recognition and stranger detection.

- High extensibility

Supports deployment methods like public network and LAN; supports screen display content configuration; supports card reader access.

## FAQ

- Try to restart and reset

When the device stops at an interface for a long time, users can power on, reset, and restart it by plugging in and out the power switch. If it is invalid, press and hold the RESET button for 8-12 seconds to reset the device. Besides, users can contact our staff and make some feedbacks.

- Drop resistance

Please avoid operations such as falling, breaking, bending, heavily pressing and so on.

- Cleaning

Please use soft cloth or such materials, lightly wipe the display screen or panel, and to avoid scrubbing with water and cleaner.

- Low-temperature environment

The normal working temperature for this device is -10°C~50°C, if the actual temperature exceeds this range, that may influence the normal use of the device.




Do not dirty or damage the display screen with oil-water or sharp objects



Do not use unknown power adapter to avoid burning out the device

Documents / Resources

	<p><a href="#">uni-ubi Uface 5 OS-M355C3-V-R23WFC Temp AI Face Recognition System</a> [pdf] User Guide</p> <p>OS-M355C3-V-R23WFC, Uface 5 OS-M355C3-V-R23WFC, Uface 5 OS-M355C3-V-R23WFC Temp AI Face Recognition System, Temp AI Face Recognition System, AI Face Recognition System, Face Recognition System, Recognition System</p>
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