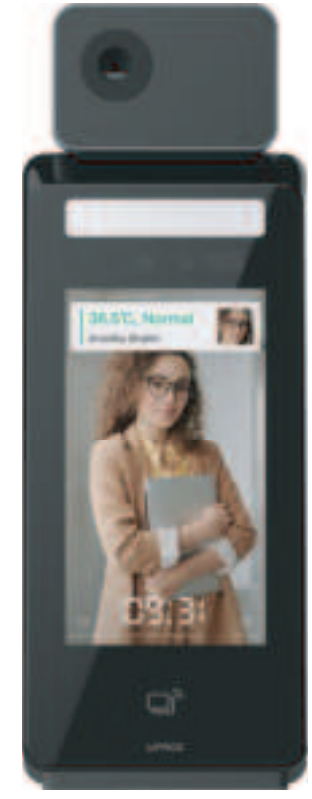
PRODUCT BOOKLET



Product number

T55-1301-OS-WVTQC

Dear customer:

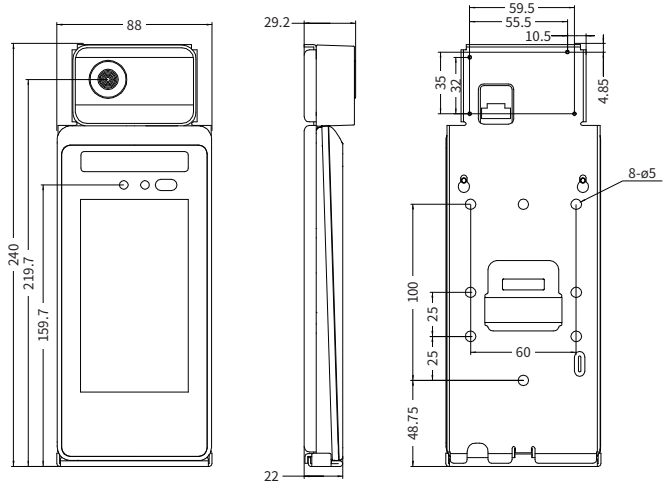
Thank you for using our product. For better use, please carefully read this instruction. If you have any issues not mentioned here, please contact the provider. All parts of this booklet are reserved by our company, including words, pictures and graphics. Without written permission, no unit or individual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

Parts list

1、 Host (x1)
2、 Bracket+Thermometer module (x1)
3、 Power adapter (x1)
4、 User manual (x1)
5、 Certificate (x1)
6、 Installation sticker (x1)
7、 Hexagonal wrench (x1)
8、 M3 Screws (x3)
9、 M3 Countersunk screws (x2)
10、4x30 Cross countersunk self-tapping screws (x4)
11、M4x30 countersunk thread (x2)
12、Expansion pipes (x4)

Dimensional drawing

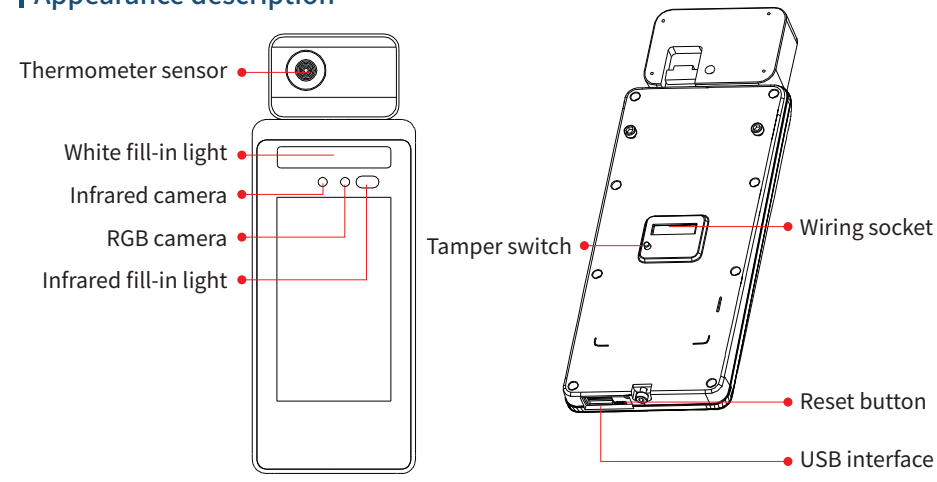
Unit: mm

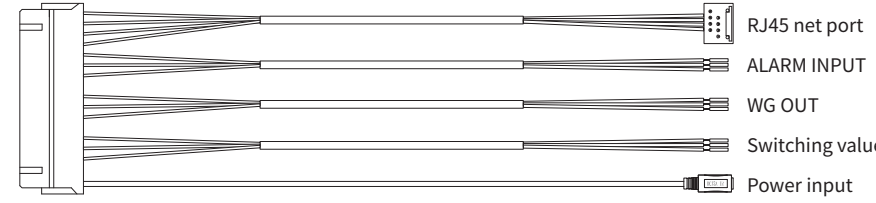


Operating instruction

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

Appearance description





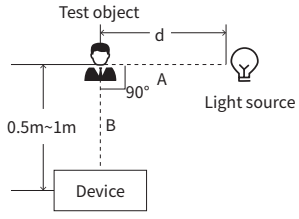
ALARM INPUT	WG OUT	Switching value
GND	WD0	NO
ALARM-KEY	WD1	COM
ALARM-DOOR	GND	NC

Illumination intensity

The recognized face, of which, the illumination intensity (“intensity” in short) shall not be lower than 30 Lux. The device has filling light itself, so when the device put in a totally dark environ ment, 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.

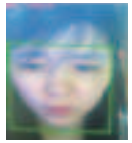
Intensity test

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 stan dard 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

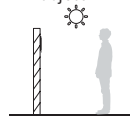
300 Lux, slight exposure

500Lux, overexposure

Illumination intensity in actual scenarios

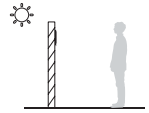
Light issues may lead to big differences between site image and registered image; backlight, side-light and strong light will influence the recognition experience. (Analysis: from the view of human eyes, the color changes on face skin may result in wrong recognition of identity; unclear exposure area, no matter large or small, may influence the identity judgement.)

Light source is near the object



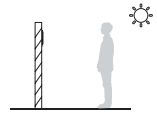
Side-light may lead to uneven light on the face

Device stands between the light source and object



Direct **strong light** may cause overexposure

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, notsuitable for installation.

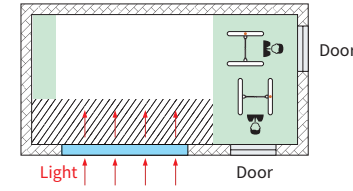
Other areas, install in suitable places according to actual light impact.

Curtain

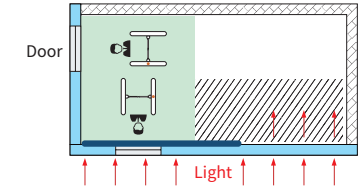
Wall

Glass window

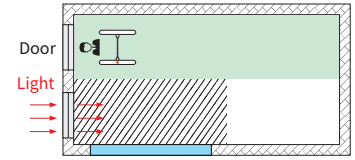
When the sunlight shines indoor through the window, the face recognition terminal device shall not be installed in shown black shadow area, instead, shall be installed in place with little sunlight impact, no side-light and no backlight. (Glass window can be deemed as no walls)



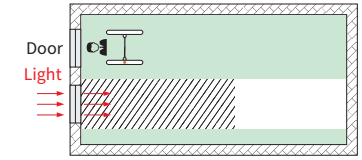
If the room has glass wall, there is no shield for sunlight, then it is suggested to hang curtains over the window, and install the device in place with shield to avoid direct sunlight influencing the recognition. (Glass window can be deemed as no walls)



Sunlight shines through the door, 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.



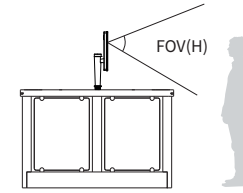
Sunlight shines through the door, the device shall be installed at the place with shields and little light impact.



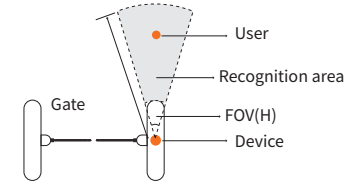
Height

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)

Camera vertical wide-angle

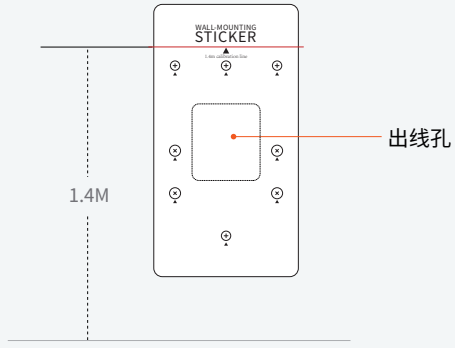


Camera horizontal wide-angle

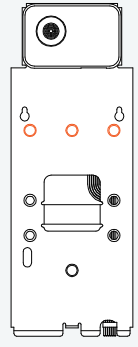


Steps

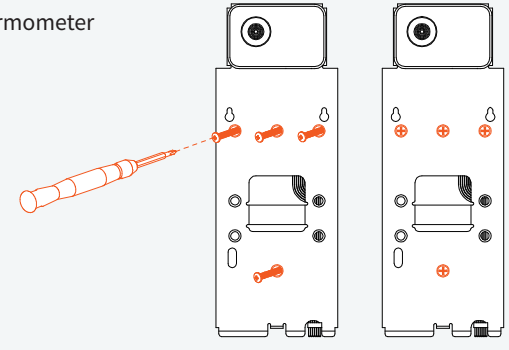
1. Paste the mounting sticker.



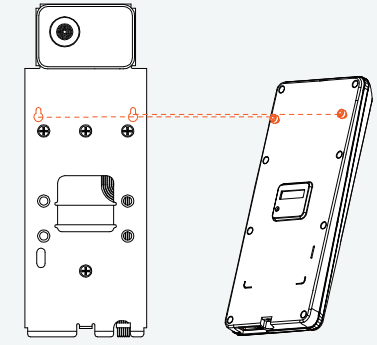
2. Align the mounting sticker hole with the device.



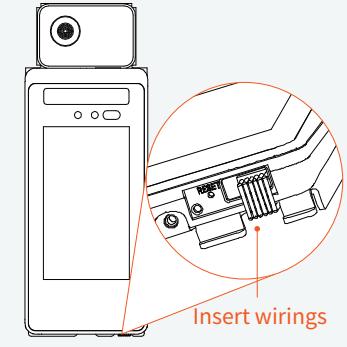
3. Fix the bracket with thermometer sensor on the wall.



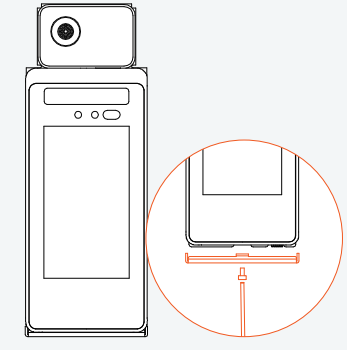
4. Fix the device on the wall mounting bracket.



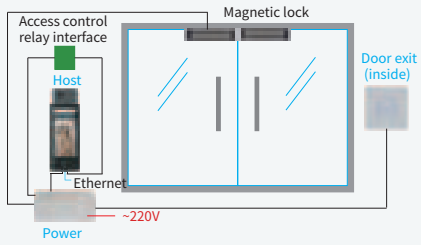
5. Insert the thermometer sensor wiring into the device.



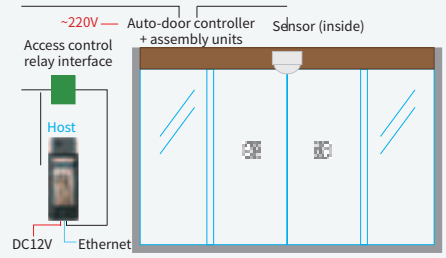
6. Fix wall-mounting bracket.



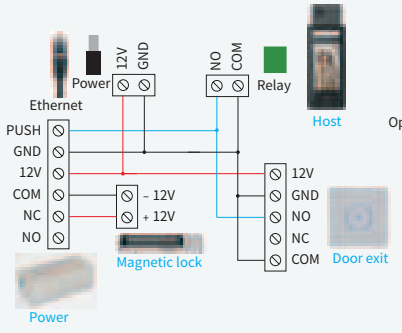
Wiring connection



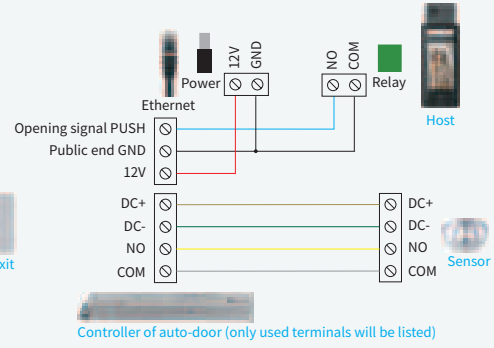
System installation schematic drawing for magnetic door



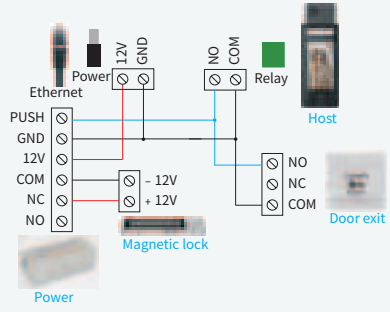
System Installation Schematic Drawing For Automatic Door



Wiring schematic drawing for touching switch of magnetic door



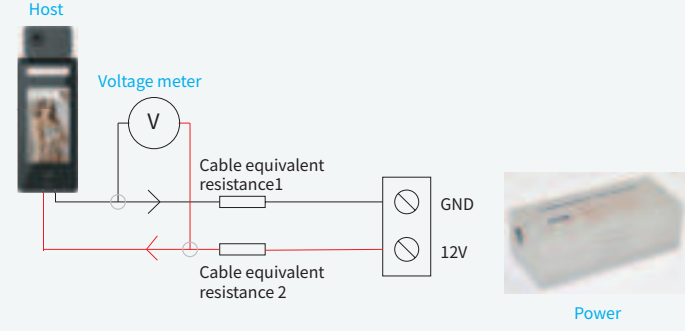
Wiring schematic drawing for sensor switch of automatic door



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 extension cable” and is in long distance, resulting in excessive cable equivalent resistance, then abnormal phenomena may occur easily such as insufficient terminal voltage (⩽11V), repeated restart, system crash and so on. Wiring connection of voltage metering is shown as follows:



2.The power adapter is put together with the device which is optional, such as EU standard, American standard, UK standard, and so on.

- Extension of power cable (weak current) cannot exceed 2m, otherwise, it may cause insufficient power supply for 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 using other power adapters, 9V and 1A as an example, then insufficient voltage and too weak current may cause repeated restart.
- The cable cannot be too thin (such as thin network cable), it is suggested to connect multi-strand cable in parallel or use copper core thickened cable to ensure voltage >11V.

  Attention: If using network cable, the extension cable use 4-strand cable as positive pole and 4-strand cable as negative pole.
- If not clear with how to extend, please contact the provider to change “Special power extension cable”.

Features

- **Characteristics**
  Infrared and RGB dual-camera dynamic anti-counterfeiting, live face detection; completely solve image frauds in all kinds of carriers; recognition accuracy is 99.99% (passing rate is 99.77% at 1% false accept rate; passing rate is 99.27% at 0.1% false accept rate).

- **Store records in local**
  (a) Device using cloud platform supports storing 50 thousands faces (less than 400KB), 1 million recognition records (0.45KB), and about 100 thousand on-site captured photos;
  (b) Device using LAN support storing 50 thousand faces (each photo by 100KB) and 1 million recognition records (including the latest 10 thousands on-site captured photos)

- **Quick recognition speed**
  Recognition speed less than 1s.

- **Secondary development (integrated)**
  Support the interface connection in HTTP; support 232 serial output, Wiegand 26 and 34 output, can custom the output configuration.

- **Complete functions**
  Support recognition distance configuration; support stranger detection and stranger level configuration; support saving the on-site photos of face recognition and stranger detection.

- **High extensibility**
  Supports deployment methods like public network and LAN; support screen display configuration.

- **Temperature measuring**
  Device should be used indoor to avoid the disturbance from heat radiation source, Measurement distance is around 0.3m-1.5m, range is around 30°C-45°C, and accuracy is ±0.5°C.

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 feedback.

- **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 avoid scrubbing with water and cleaner.

- **Working temperature**
  The normal working temperature for this device is 0°C~50°C, if the actual temperature exceeds this range, the normal use of the device may be affected. To ensure measurement accuracy, the device is recommended for indoor use to avoid interference of heat source.

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

CE Caution

Use the Product in the environment with the temperature Between 0℃ and 40℃ ;
Otherwise, it may damage your product. Products can only be used below 2000m altitude
For the following equipment:
Product Name: FACE RECOGNITION TERMINAL
Model: Uface 5-H Temp（T55-1301-OS-WVTQC）
Trade Name: 宇泛智能
Universal Ubiquitous Co., Ltd.
E-mail: wangjianhao@uni-ubi.com

hereby declares that this [Name: FACE RECOGNITION TERMINAL, Model: Uface 5-H Temp（T55-1301-OS-WVTQC）] is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

CE

Adapter shall be installed near the equipment and shall be easily accessible.
Only can use adapter as below:
Power Adapter MODEL: XED-RZ120200S
Input: 100- 240Vac, 50/60Hz, 0.6A Output: 12.0Vdc, 2.0A
SHENZHEN XED POWER SUPPLY CO., LTD
The plug considered as disconnect device of adapter.

This product is intended for sale and application in a business environment.
RED Article 10 2
-This product can be used across EU member states
RED Article 10 10
-The product is class 1 product, No restrictions

The RF distance between body and product is 20cm

Wi-Fi (2.4G)
2412-2472MHz for 802.11b/g/n(HT20); 2422-2462MHz for 802.11b/g/n(HT40)
Max. RF Output Power: 17.58dBm (EIRP)

NFC
Frequency Range: 13.56MHz
Radiated H-Field: 7.14dBuA/m(@3m)

For the above information, The Working Temperature, Adapter Model, Max. RF Output Power, Radiated H-Field and Working Frequency for EU only.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.