PRODUCT BOOKLET

Uface 4

(OS-M345E1-V-R23WFCQ)

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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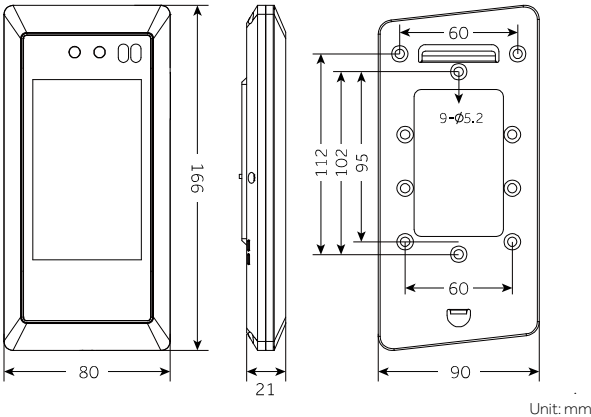### Product description

Features
FAQ

Parts list

No.	Name	Quantity
1	Host	1
2	Power adapter	1
3	User manual	1
4	Certificate	1
5	Wall-mount support	1
6	Installation sticker	1
7	Hexagon wrench	1
8	Tamper screws	2
9	4*30 Countersunk self-tapping screws	4
10	Expansion pipes	4

Dimensional Drawing
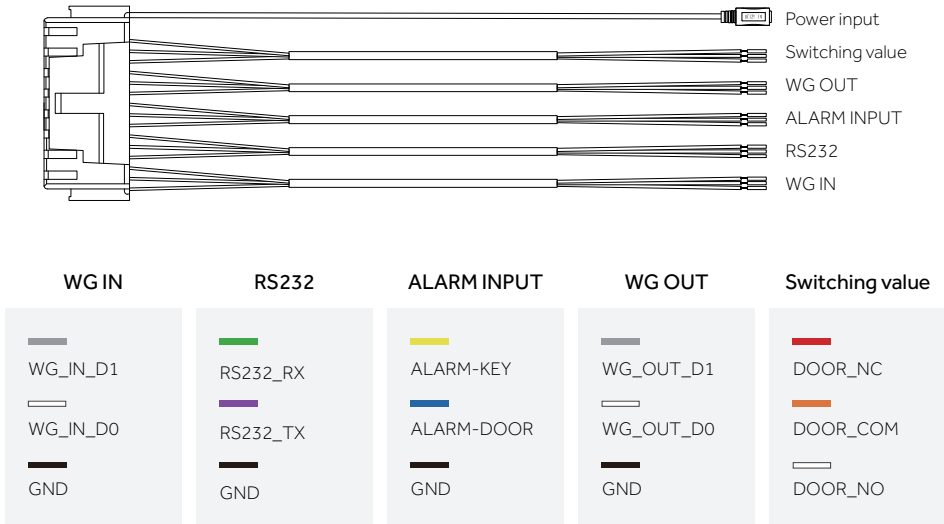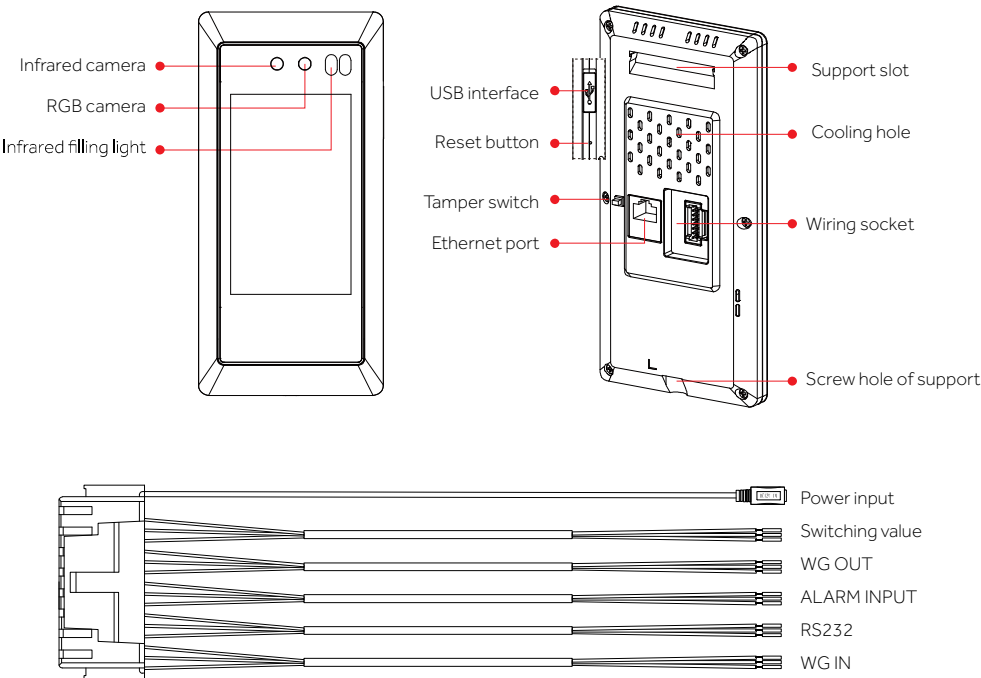

Unit: mm

The software carried by the product is LAN (LAN or offline version, provides the secondary development). Please mark the need for software version when place the order. For more detailed platform/software instruction manual, please login into the official website to download or contact the customer services.
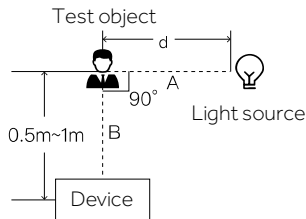
Appearance description

Instruction

Infrared camera
RGB camera
Infrared filling light
USB interface
Reset button
Tamper switch
Ethernet port
Support slot
Cooling hole
Wiring socket
Screw hole of support

Power input
Switching value
WG OUT
ALARM INPUT
RS232
WG IN

WG IN	RS232	ALARM INPUT	WG OUT	Switching value
WG_IN_D1	RS232_RX	ALARM-KEY	WG_OUT_D1	DOOR_NC
WG_IN_D0	RS232_TX	ALARM-DOOR	WG_OUT_D0	DOOR_COM
GND	GND	GND	GND	DOOR_NO

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 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 face at this time.

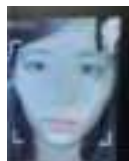### Reference to intensity

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 result the identity judgement.)

Side light

Light source is near to 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.
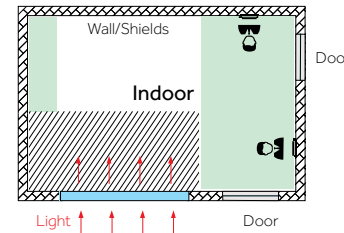3. Properly lower the threshold value according to usage.

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)
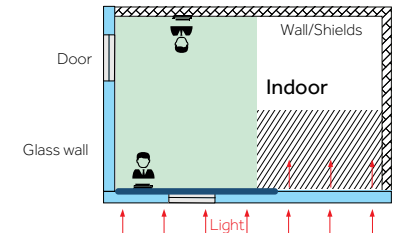
Sunlight shines indoor

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)
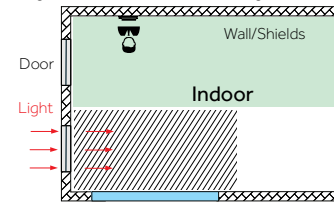

Glass window

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)
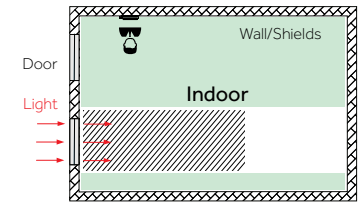

Sunlight shines through the door, with glass window at one side

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.
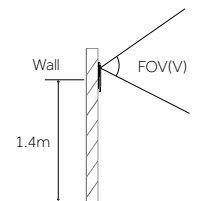

Sunlight shines through the door

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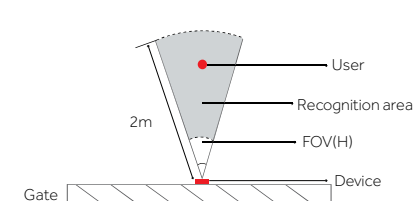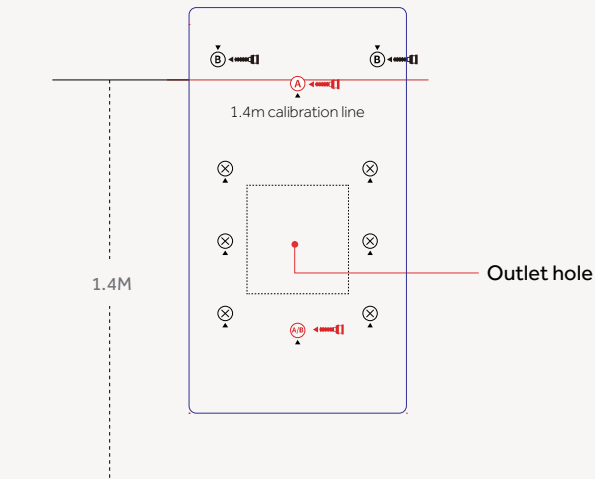

Height

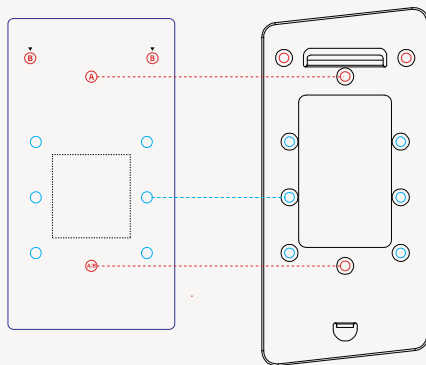Camera vertical wide-angle

Camera horizontal wide-angle

Suggested installation height (distance between the screen 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)

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.
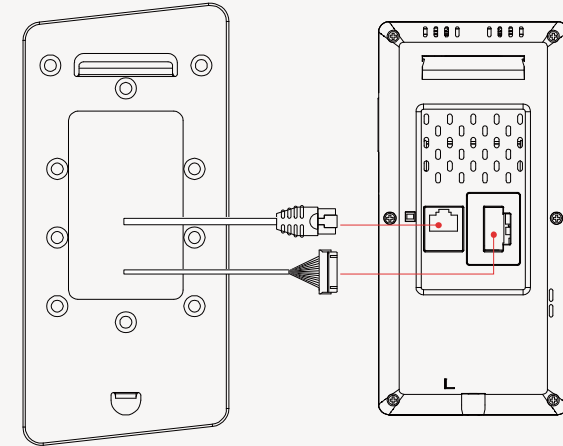
1.4m calibration line

1.4M

Outlet hole

3 Align the interface socket and Ethernet port with device back and insert.

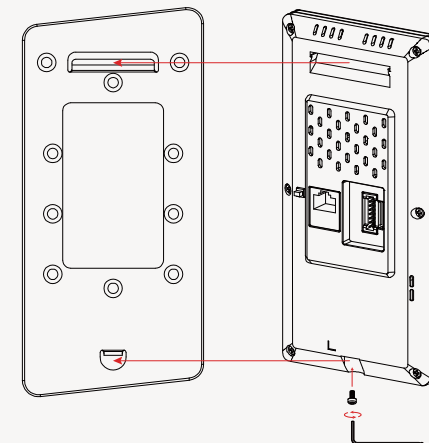**2** Move the support to align holes on it with holes on the wall, and use the screws to fix the support.

ⓘ 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.
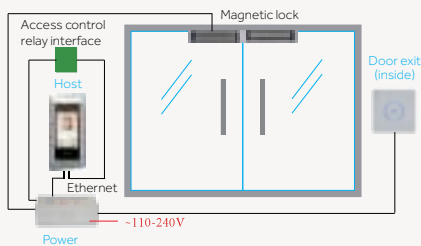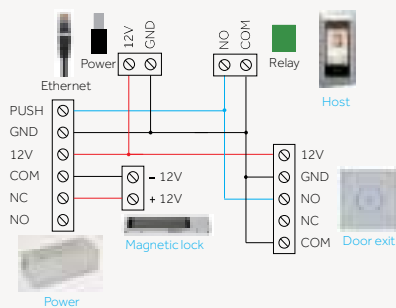
4 Thread the tamper screws into the support and rotate 2 turns, then align the bottom slot with the support hook, use the hexagonal wrench to tighten screws following the shown direction. Installation completes.
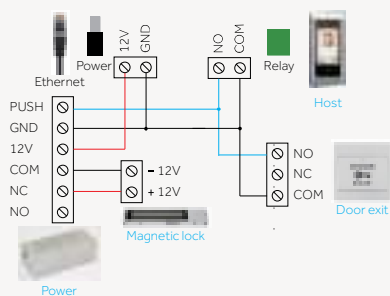
Wiring for magnetic door

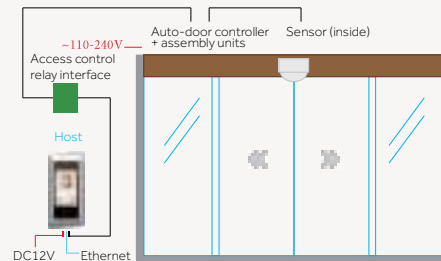System installation schematic drawing for magnetic door

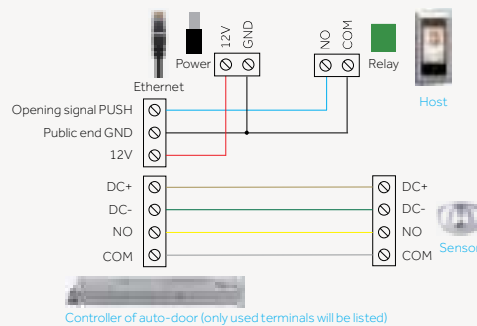Wiring schematic drawing for touching switch of magnetic door

Wiring schematic drawing for mechanical switch of magnetic door
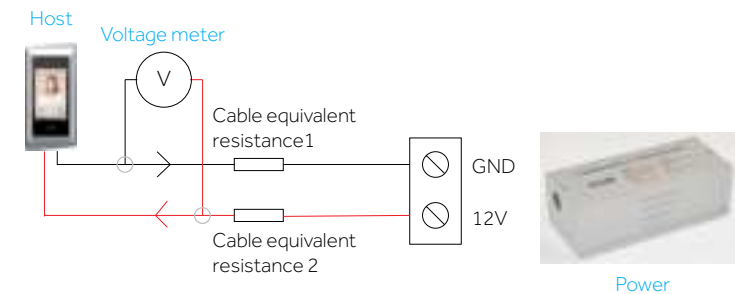
Wiring for automatic door

System installation schematic drawing for automatic door

Wiring schematic drawing for sensor switch of automatic door

Installation notes

1. When arrange 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 (≤11V), repeat restart, system crash and so on. Wiring connection of voltage metering is shown as follow.

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 repeat restart, system crash may occur. If the power is far away from the device, the power cable can be extended (strong current).
- If use other power adapter, 9V 1A as an example, then insufficient voltage and too weak current may cause repeat restart.
- 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.
  ⓘ Attention: If use 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 strip".

- ## Characteristics

  Completely solve image frauds in all kinds of carriers with infrared and RGB dual-camera; when face database is 10-thousand. the recognition accuracy is 99.99% ((99.77% recognition rate under 1% false accept rate; 99.27% recognition rate under 0.1% false accept rate).

- ## Store records in local

  Store 10-thousand level database in local
  Device supports storing 10 thousand pieces of face images, 30-thousand pieces of recognition records (including on-site photo storage).

- ## 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.

- ## Try to restart and reset

  When the device stops in some interface for a long time, users can plug out the power switch, power-on reset and then restart. If it does not take effect, then can long press RESET hole for 8-12s to restart the device. Besides, users can contact our staff and make some feedback.

- ## Protection

  This product possesses certain capbility of self-protection, as it can prevent small objects (such as tools, wires and so on) from entering and touching internal parts.

- ## 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.

- ## Working environment

  The normal working temperature for this device is -20°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

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.