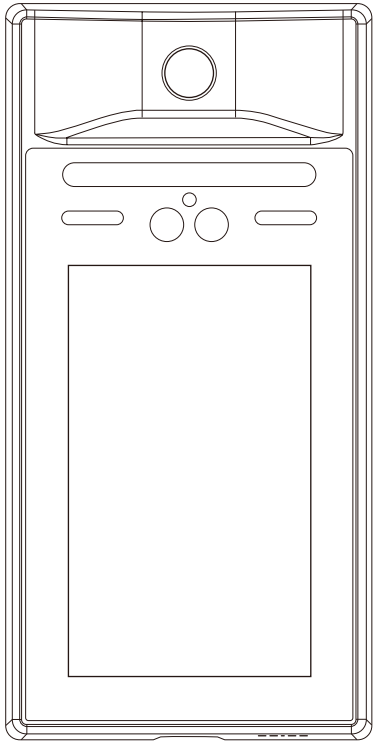
Face Recognition Temperature Monitor

User's manual



Please read this manual before switching the unit on.
Important safety information inside.

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The Face Recognition Temperature Monitor effectively combines traditional infrared temperature measurement with AI face recognition. It only requires the user to stand in front of the device to quickly complete user identification and temperature measurement. Once the temperature exceeds the normal value, it will alarm and prohibit passage. In order to be suitable for more scenarios, this device supports 3 usage modes, and is equipped with different platform software for more powerful functions.

1. Access Control & Attendance for Company | Equipped with Attendance & Access Control Management Platform Software for Company.

2. Access Control & Attendance for School | Equipped with Attendance & Access Control Management Platform for School.

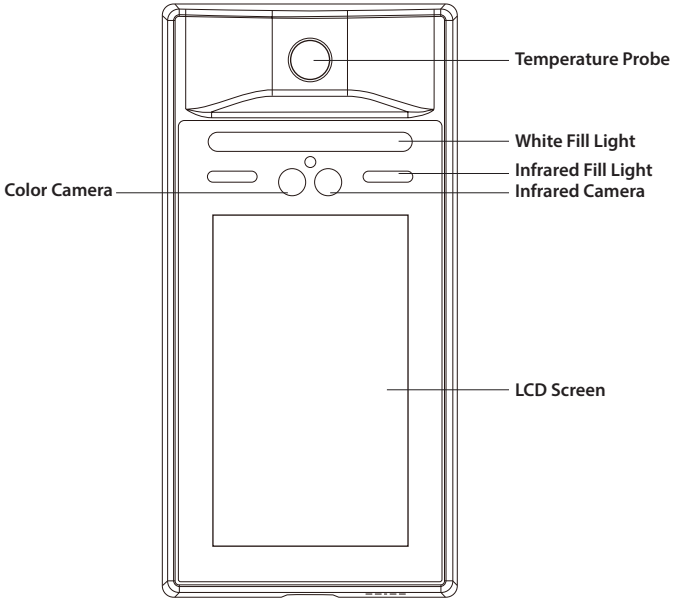
3. Quick Temperature Check | Equipped with Temperature Cloud APP to monitor abnormal data and snapshot. (Only temperature detection for scenes that do not require face recognition)

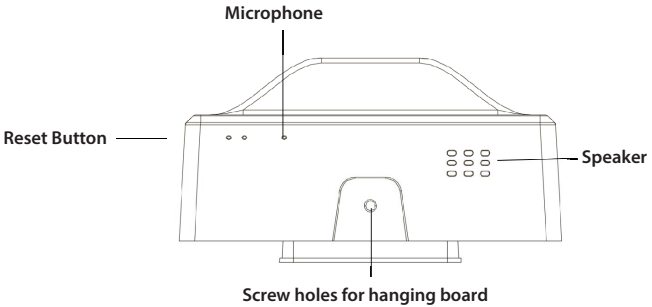
Notice:

- During installation and use, all electrical safety regulations of the country and the region of use must be strictly observed.
- When wiring, disassembling and other operations, please be sure to disconnect the power supply, do not operate with electricity.
- If the device emits smoke, produces unusual odors, or makes noises, immediately turn off the power and unplug it, and contact the dealer or service center in time.
- If the equipment is not working properly, please contact customer service, do not disassemble or modify the equipment in any way. (The company does not assume any responsibility for problems caused by unauthorized modification or maintenance)
- Do not drop objects on the device or vibrate the device vigorously to keep the device away from magnetic interference.
- Avoid installing the device where the surface vibrates or is vulnerable to shock.
- Avoid installing the device at the air outlet of the air conditioner or in a place with large airflow fluctuations.
- Try to ensure that the equipment is installed vertically.
- Please do not use the device in high temperature, low temperature or high humidity environment.
- Please do not aim the lens of the device at strong light objects such as the sun, incandescent lamp, etc., otherwise it will cause lens damage.
- Avoid placing the device in direct sunlight, poorly ventilated locations, or heat source accessories such as heaters or heaters.

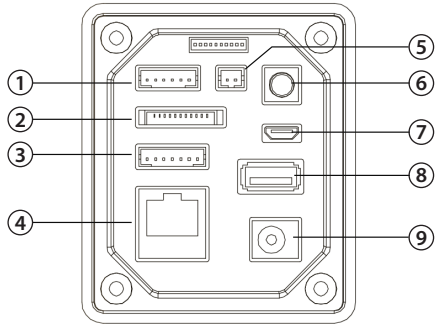
- Biometric products cannot be 100% suitable for any anti-counterfeiting environment. High security level places, please use combination authentication.
- Do not touch the temperature probe with your fingers or blow the probe.
- Please make sure no hair, sweat, or hat cover your forehead before measuring temperature.
- If the forehead is cold, wait for the forehead to become warm before taking the temperature measurement. Such as: after washing the face, after applying ice, after entering the room from the outside in winter.

1. Product Appearance





2. Interface Instruction



1. 6PIN Door Button, Door Sensor, Alarm Interface

1	2	3	4	5	6
5V	GND	NC	Door Button	Door Sensor	Alarm

2. 11PIN Reserved IO

1	2	3	4	5	6	7	8	9	10	11
	PWRON	IO7	GND	3.3V	IO6	IO5	IO4	IO3	IO2	IO1

3. 7PIN 12V Power Supply, Relay Interface

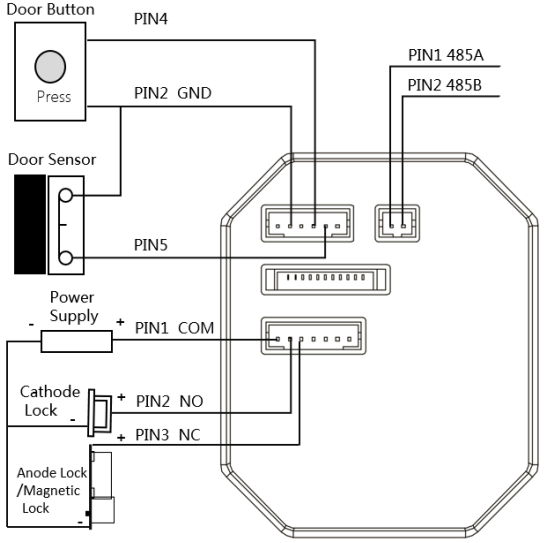
1	2	3	4	5	6	7
COM	NO	NC	GND	GND	12V	12V

4. Ethernet port
5. 2PIN 485 Interface

1	2
485A	485B

6. Tamper key
7. Micro USB Port
8. USB-A Port
9. 12V Power Adapter Socket

3. Wiring Instruction



4. Technical Specifications

Temperature measurement module parameters	
Measuring range	32°C~45°C/ 89.6°F~113°F
Measurement accuracy	±0.5°C/ ±0.9°F
Measuring diatance	20~50cm
Measure time	0.5s
System hardware parameters	
Processor	4-core A7
Operating system	Android 8.1
Memory size	1GB LPDDR3
Storage size	16G EMMC
Cameera Parameters	
Resolution	Color 200W (1920*1080) Infrared 130W (1280*960)
Imaging device	Color AR0230 Infrared AR0130
Lens	2.9mm
Recognize height	1m~2m
Recognition distance	0.3m~1.2m
Angle of view	Horizontal: 89° Vertical: 57° Diagonal: 98°
Face angle	±30°
Minimum illumination	Color ≥0.01LUX at F1.2, Infrared:≥0.01LUX at F1.2
signal to noise ratio	Color ≥4dB, Infrared:≥44dB
Wide dynamic range	Color ≥105dB, Infrared:≥83.5dB
Interface parameters	
Network interface	1 RJ45 10M/ 100M adaptive Ethernet port
USB interface	1 USB interface
Wireless connection	WiFi+BLE4.0
RS485 interface	1 RS485 interface
Relay interface	1 relay interface
Fire alarm door check button	1 fire alarm door check button
IO reserved	1 11pin terminal
Power supply	DC12V/ 3A

Smart functions	
Face recognition capacity	50000 people
Offline record	100000
Recongition accuracy	99.83%
Face liveness detection	Support binocular near infrared live detection
Face recognition speed	1080P @ 25fps, support face detection tracking, optimization
Face liveness detection speed	About 200ms
Occlusion adaptation	About 400ms
Basic parameters	
Screen size	7 inch
Product size	268*135*45 (length*width*height)
Operation humidity	10%~90%
Operation temperature	10~40°C/ 50~140°F

5. Access Control & Attendance for Company

At this mode, User need to login to the Attendance & Access Control Management Platform Software for Company to add the device ID, import employees' information and their face photos and configure this device as an attendance device for employees. After the configuration is complete, the user can use the device to synchronize data. After synchronization is complete, face recognition/temperature measurement/access control/attendance can be started.

For detailed instructions, please refer to the guidance of the Face Recognition Temperature Monitor and the instructions of the Attendance & Access Control Management Platform Software for Company.

6. Access Control & Attendance for School

At this mode, User need to login to the Attendance & Access Control Management Platform Software for School to add the device ID, import students and teachers' information and their face photos and configure this device as an attendance device for them. After the configuration is complete, the user can use the device to synchronize data. After synchronization is complete, face recognition/temperature measurement/access control/attendance can be started.

For detailed instructions, please refer to the guidance of the Face Recognition Temperature Monitor and the instructions of the Attendance & Access Control Management Platform Software for School.

7. Quick Temperature Check

At this mode, fast temperature detection and automatic recording of data and face photos can be performed. User need to download the Temperature Cloud APP to add the device ID. Scan the QR code as follow to download the APP.

Temperature Cloud APP

Scan the QR code as follow to get the guidance of the Face Recognition Temperature Monitor and the instructions of the Attendance & Access Control Management Platform Software.

8. Install Instruction

Box 86 for Wall-Mounted Installation

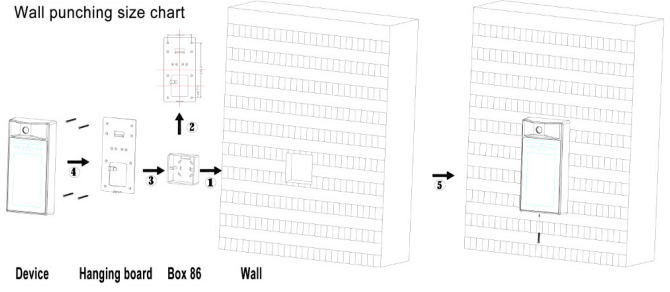
1. Install stickers on the wall, and make holes in the wall according to the height and position of the stickers to install Box 86.

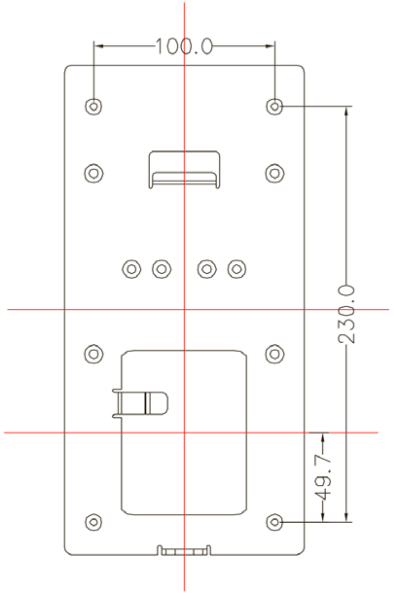
2. Align the outlet of the hanging board with the center of the Box 86, punch four mounting holes on the wall according to the punching size diagram, and insert four wall plugs.

3. Use four KA 4*25 screwsto fix the hanging board to the wall. Connect the cable of the external device to the cable, arrange the cables, and determine the cable outlet method.

4. Hook the device from top to bottom on the mounting plate, and make sure that the upper part of the hanging plate is inserted into the groove on the back of the device.

5. Fix the device and the hanging plate from the bottom with a screw.





Wall punching size chart

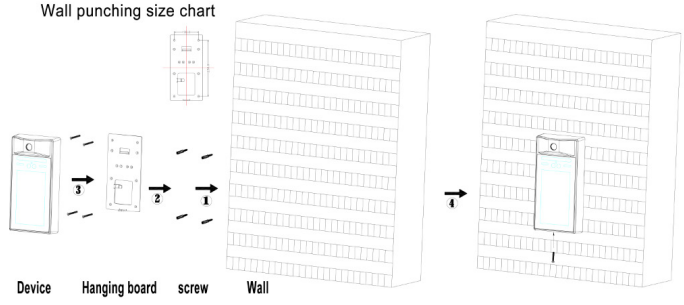
Wall-Mounted Installation

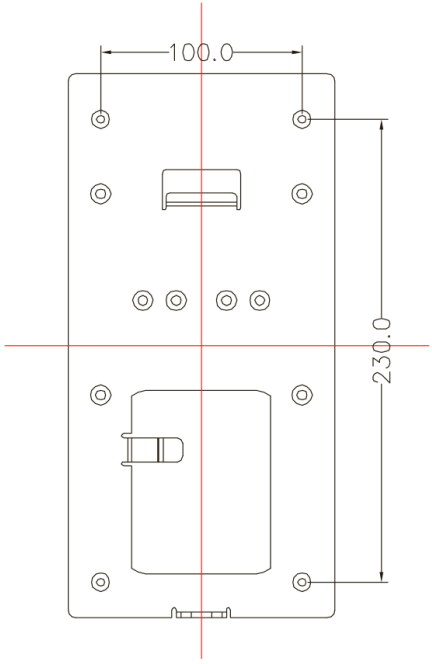
1. Attach an installation sticker to the wall, make holes in the wall according to the height and position of the sticker, insert a wall plug, and install 4 hex screws.

2. Fix the hanging board on the wall with four KM 4* 10 screws.

3. Hook the device from top to bottom on the hanging board, and make sure that the upper part of the hanging board is inserted into the groove on the back of the device.

4. Use a screw to fix the device and the hanging plate from the bottom.





Wall punching size chart

FCC STATEMENT

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.
This device must not be co-located or operating in conjunction with any other antenna or transmitter.
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.

To comply with FCC's RF radiation exposure limits for general population/uncontrolled exposure, this device must be installed to provide a separation distance of at least 20cm from all persons.

WARNING: 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.

This device must not be collocated or operating in conjunction with any other antenna or transmitter.