Facial Recognition Device

Product model: F6

Product version: V1.0

Please read this instruction carefully before use

Catalogue

I. Product overview

(The diagram is for reference only, and the actual product shall be subject to the corresponding product number)

This product is a convenient, safe industrial-level visual face recognition all-in-one machine. In view of the needs of large capacity, high performance, wide application, customizable and other aspects existing in the process of face recognition application, an intelligent face recognition hardware launched can be combined with face recognition algorithm, without user cooperation, to achieve live detection, dynamic face recognition, to provide users with the use environment of the safety area.

The product is based on 200W RGB, 200W IR binocular camera, supports WIFI + 10 / 100M network and rich peripheral security interface, to meet the needs of user access control, can realize personnel authentication, personnel entry and exit management and attendance management.

The products are widely applicable to office buildings, office areas, hotels, schools, shopping malls, communities, public services, stations and scenic spot pavilions and other traffic scenarios that need to be used, which is conducive to the realization of intelligent safety control.

Ⅱ Functional characteristics
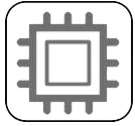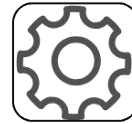
| High performance engine | Binocular | Distance induction | Card read | Security interface | Multiple installation | High levels of protection |

Serial number	Characteristic	Content
1	function	Combined with the face recognition algorithm, to support the ten thousand level face bottom library
2	algorithm	Support the domestic top AI manufacturers algorithm
3	velocity	Combined with face recognition algorithm, face recognition
4	anti-fake	Binocular facial recognition that supports live detection
5	communication	Live detection, 8-inch ultra-clear touch screen + sound interaction prompt
6	environment	Super strong environmental adaptability, low light and strong reverse light, all have a very good performance
7	stabilize	Android 11.0 system, long-term and stable operation
8	come into bloom	Provide SDK to meet the secondary development needs of S / ISV manufacturers
9	epidemic prevention	Infrared temperature detection and screening
10	Prevent strong light	Sunshades [Optional]

Ⅲ Specification performance

Access control attendance Face recognition all-in-one machine terminal		
Product model		F6
Product features	major function	Access control, attendance check, access gate
	Usage environment	Indoor, outdoor

	resolution ratio	200, megapixels	200, megapixels
	Vertical wide Angle	65°	65°
	Horizontal wide Angle	40°	40°
	White light supplement	support	
	Infrared light supplement	support	
Core parameters	system	android 11.0	
	CPU	RK3566 4x ARM® Cortex™ A55 up to1.8GHz	
	SC	Memory 2G, storage 8G	
human-computer interaction	display screen	8-inch, Full View, 170°IPS LCD, resolution 800 * 1280	
	touch screen	support	
	Human temperature measurement module [apolegamy]	Test accuracy: 0.1℃	
		test error:≤±0.5℃	
		Temperature measurement distance: the recommended use distance is 50cm	
		Operating temperature: 15℃ ~40℃	
communication mode	Ethernet	10 / 100Mbps Ethernet	
	WIFI	Compliance with the IEEE802.11b/g/n standard (2.4G)	
	4G[apolegamy]	CAT1, domestic full Netcom	
RM	human face	support	
	IC card [optional]	support	
	certificate of identification	Network ID card [Optional]	
		Local ID card needs external connection [optional]	
Interface	data interface	USB 2.0*2	
	electric relay	*1	

|		
	gorge line	RS485*1
	Wigan	The 26bit / 34bit protocol
	Go out switch	* 1 [Expandable]
	Fire linkage	* 1 [Expandable]
	key	Upgrade key
source	adapter	DC12V / 2A power supply
Environmental requirements	working temperature	-20℃ ~ 60℃
	Operating humidity	20% 至 90% (in no condensation 水 drop state)
	static electricity ESD	IEC61000-4-2,LEVEL3
	levels of protection	IP65
Installation	Two ways	Wall hanging version:	Turnstile version:

Size of product
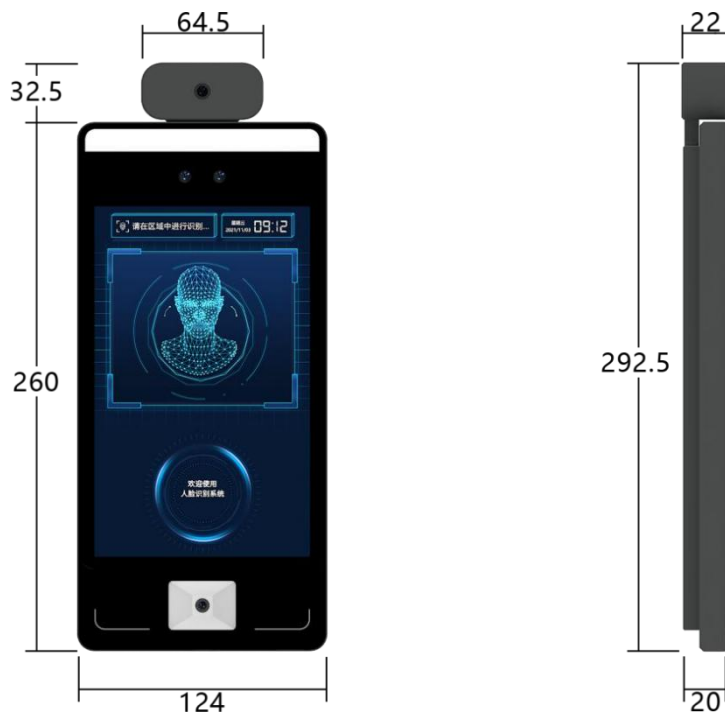
Ⅳ Product list

Serial Number er	content	quantity
1	main engine	*1
2	Support kit	*1
3	Power adapter	*1
4	Sunshades [Optional]	*1
5	Install the screw bag	*1
6	Product warranty card	*1

Ⅴ Product structure
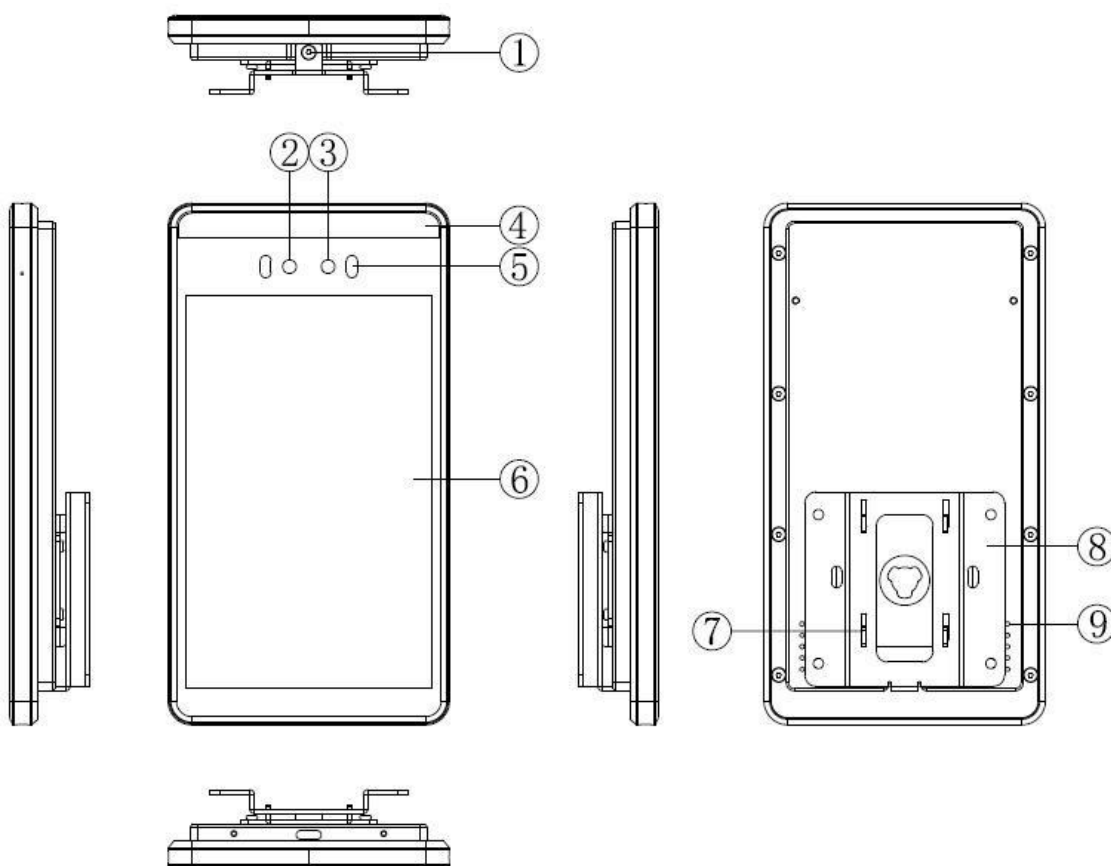
Part serial number	function declaration
①	Fixed screws for the wall-mount bracket

②	RGB, camera

③	IR camera
④	White light supplement
⑤	Infrared light supplement
⑥	Multi-point capacitive touch screen
⑦	Wall-mounted bracket connector
⑧	Wall hanging bracket
⑨	Horn net hole
⑩	swing card
⑪	End line interface

Ⅵ Product wiring

Description of the hardware wiring of the external interface		
type	port	explain
internet access	RJ45	Support for 10 / 100Mbps
electric relay	NC COM NO	Relys are often closed / public / regular.The door lock power supply is generally being connected to the COM end, Depending on the door lock type, then negatively connect the NO port or NC port to the relay power supply.Note: The relay contact load is up to 1A
Go out button	IO5 GND	Check the key door opening control signal, and input
report to the police	IO4 GND	Check the fire control linkage control signal and input

reset	Upgrate GND	Support for manual reset, upgrade
Serial	RS485 TX RS485 RX	Support for serial port RS485

Wigan hair	WG_D1 WG_D0	Weigan output interface with 26bit / 34bit protocol support
Enter the power supply	GND 12V+	Power Supply Input: 12V DC
USB	USB_HOST-4P	External reserved USB interface peripheral
	USBA 2.0_OTG	Equipment upgrade, debugging, U disk

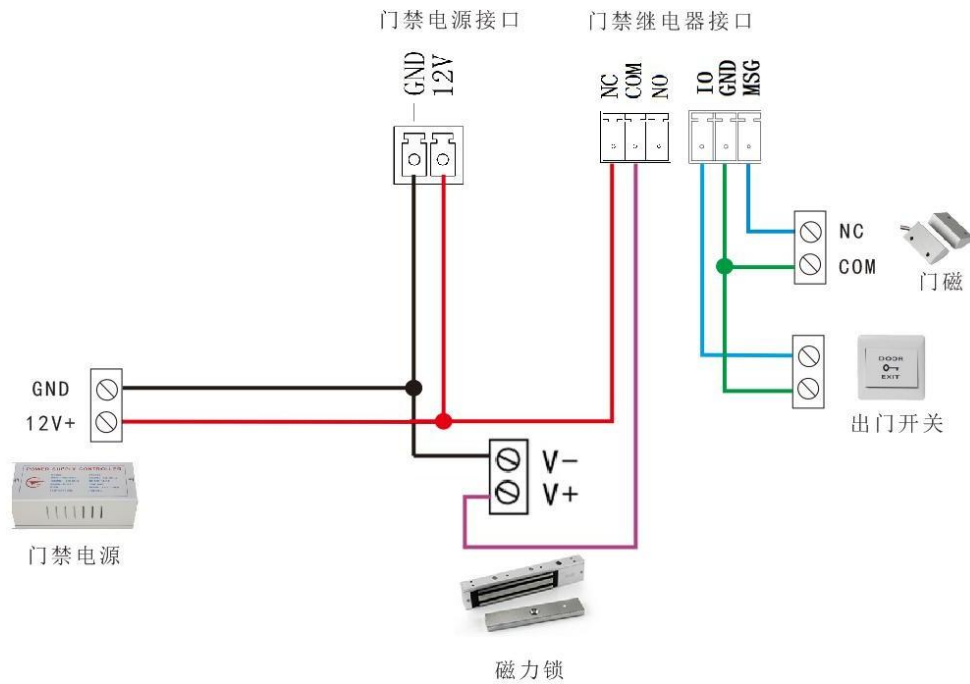## 6.1 Integrated wiring harness wiring instructions
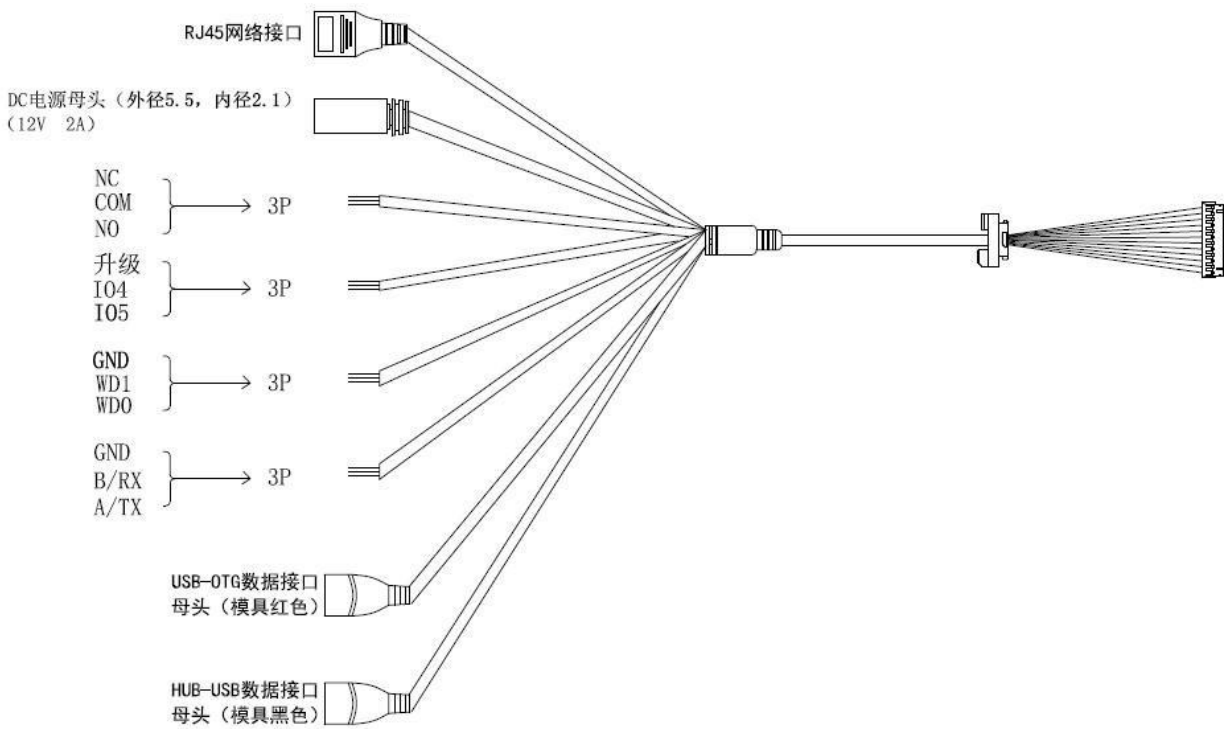
6.2 Reference instructions for field magnetic door installation

6.2.1 Schematic installation of magnetic gate system
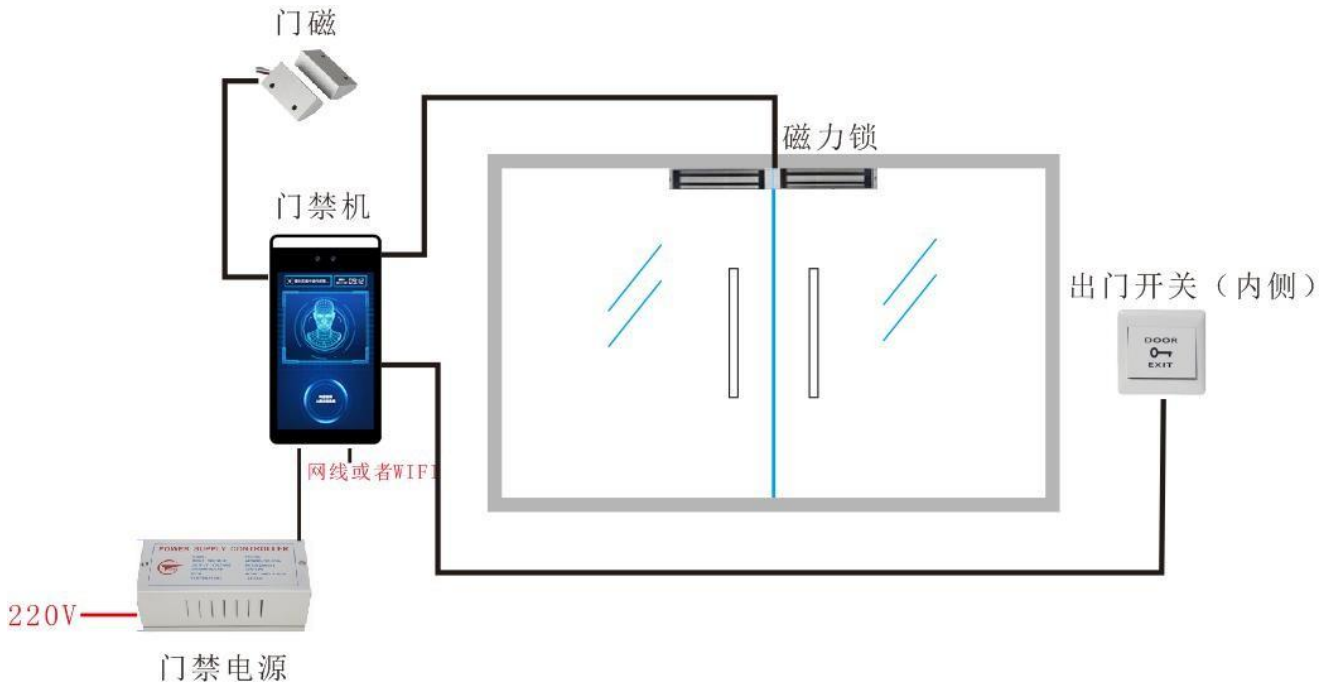
6.2.2 Schematic diagram of the wiring of the magnetic gate system

Ⅵ Installation instructions

⚠️Environmental requirements

In the installation and use of this product, all national and regional electrical regulations must be strictly followed.If the equipment is not working properly,

Do not remove and repair, otherwise will affect equipment warranty.Avoid extreme high temperature

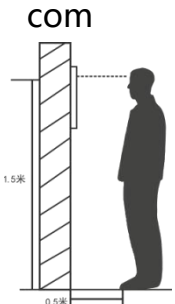(or low temperature), high humidity, strong backlight, vibration, radiation, and chemical corrosion。

light environment	It is recommended to install it in an indoor or semi-open air environment to ensure a good light environment and avoid strong direct or weak light Affect the identification speed and avoid facing the glass door or glass wall.
network environment	It is recommended to install it in a smooth network environment to avoid the poor network affecting the identification speed and accuracy.

⚠️matters need attention

Before opening the main screen equipment, tear off the screen protector to avoid affecting the accuracy of the camera and infrared recognition.

⚠️Use the location

The recommended installation height of the door machine is 150cm (camera height).Standing position is recommended

com 1.5米 0.5米	The distance between the recommended personnel and the machine is 0.5 meters, (applicable height range 1.55 meters-1.85 meters), which can be adjusted according to the effect of the device.You can move back appropriately when the face image is larger, and forward appropriately when the face image is smaller.

Recommended location

regi **com** 1.5米 1.5米 0.5米 0.5米	The installation location of the equipment must be maintained unchanged during registration and use.If the mobile device position is really required, the installation height must be consistent.If inconsistent, the identification effect of the equipment may be worse.The recommended distance between the face and the machine registration is 0.5 to 0.8 meters.

Several use methods that influence the identification effects
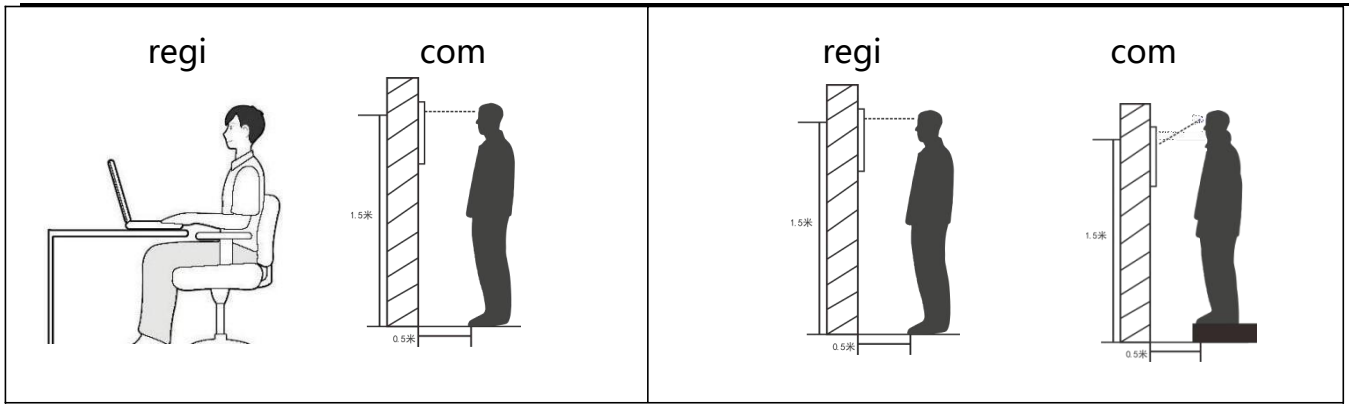
The posture was inconsistent	Highly inconsistent
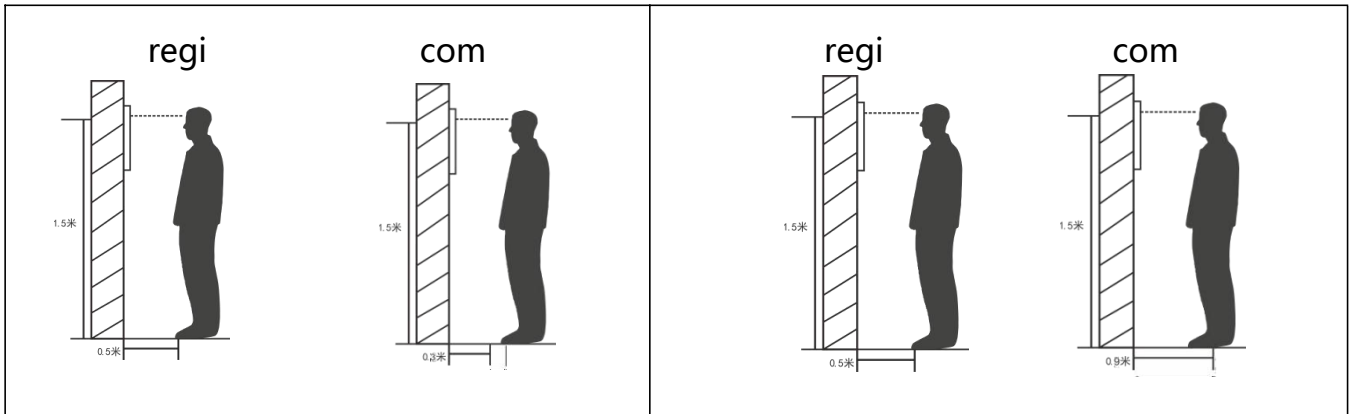
The distance is too close	It's too far away

7.1 Wall-mounted installation instructions

7.1.1 installation site

On a wall about 130cm from the ground, start the first row of holes (using 6mm drill, 6mm diameter, depth 4c m, the second hole 66m m translation).Move 63m m up two holes in the second row.

140CM

Front open hole signal

Three sets of lines shall be embedded in host equipment (reserved line is 10cm long)

(1) The 12V power supply cable RVV2x1.0 standard and above, one end at the host equipment, the other end to the 220V or 22-well outlet at the top of the shift door, install the 12V2A factory 12V adapter, the adapter 220V power cable directly plugged into the 220V power 2-well socket.

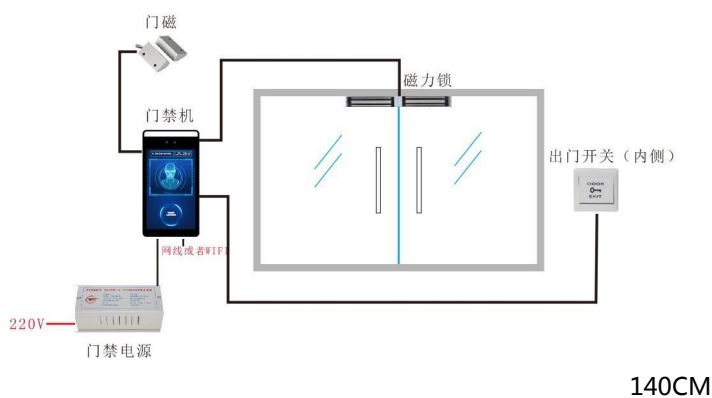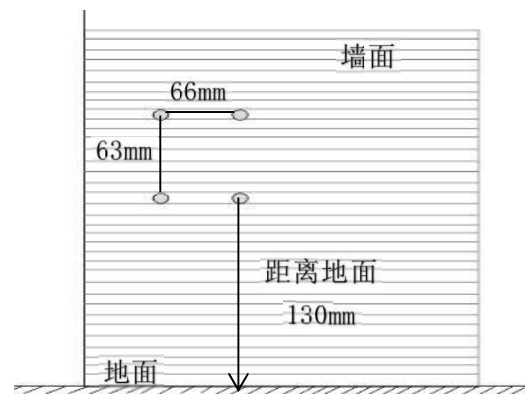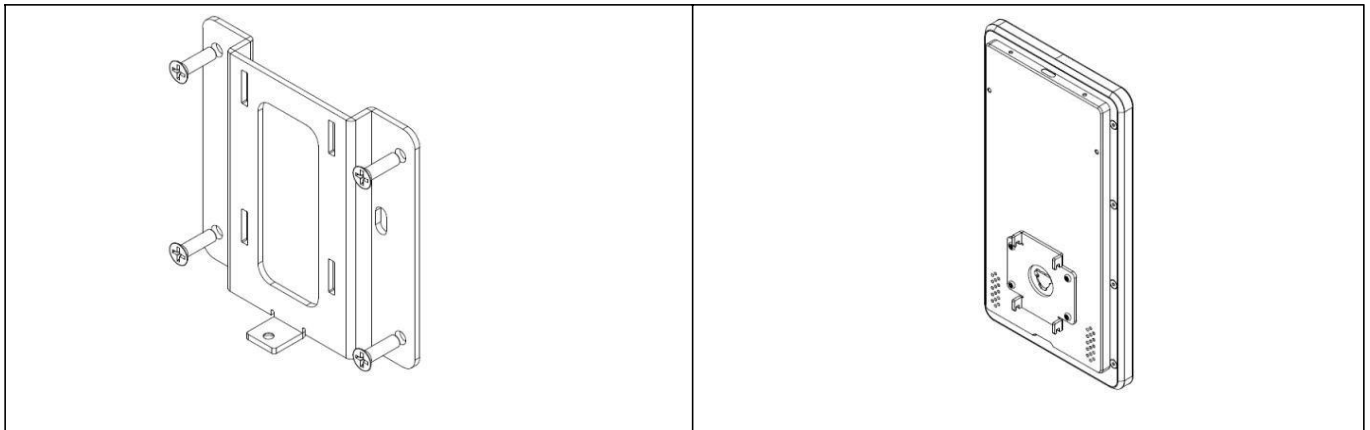(2) Door opening control line RVV2x0.5 standard and above, one end at the host equipment, and the other end to the original access control special power supply or door removal entry control controller, to connect their door signal interface during installation.

(3) Super five types of network wire 8x0.5 anaerobic copper standard and above, one end at the host equipment, the other end to the weak power room switch connected to the Internet. In special circumstances, if the wired network is difficult, the wireless network at the door is also very stable, so wireless can be considered.

7.1.2 Description of the size and hole position of the wall hanging bracket

Fixed the wall hanging board and the main machine can use a hexagon screw M 3 * 6 in the machine tooth cup head (package), note that the thread head is not short circuit.

Note: If the installation environment is a glass plate or a smooth stone wall surface inconvenient

to open holes, you need to attach the back glue and exit the line from the bottom;

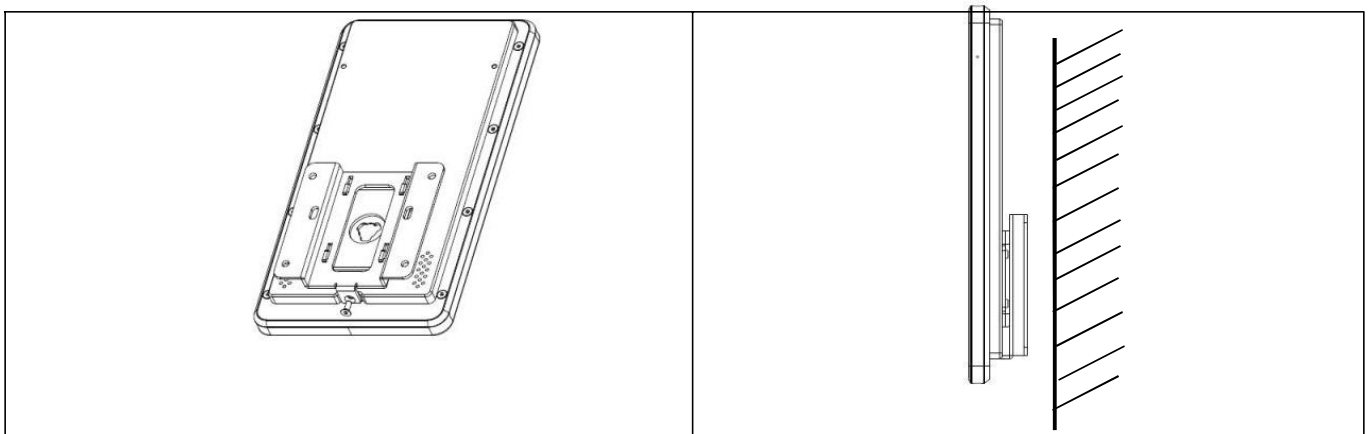## 7.1.3 Install steps

Step 1: Fixed.Attach the wall-mounted fittings to the wall with screws. Step 2: wiring.Refer to the wiring instructions and connect the wire to the equipment

Step 3: Adjustment.Tighten the accessories and fixing screws on the fixing equipment with screws Step 4: Lock.Tighten the host to the wall mount with screws.Filire, adjust wiring length until the equipment can be buckled into wall mount fittings.

Ⅷ Declaration of toxic and harmful substances

Component name	Toxic and harmful substances or elements					
	lead (Pd)	mercury (Hd)	cadmium (Cd)	hexavalent chromium (Cr(VI))	Polybrom inated biphenyl (PBB)	Polybrodiph enyl ether (PBDE)
hull	O	O	O	O	O	O
Circuit board and its components	O	O	O	O	O	O
Power adapter	O	O	O	O	O	O

This table is prepared according to the provisions of SJ / T11364

O	It indicates that the content of the hazardous material in all homogeneous materials of the component is below the limit requirements of GB / T26572
X	It means that the content of the hazardous substance in at least a homogeneous material of the component exceeds the limit requirements specified in GB / T26572
	This identification period refers to the period (ten years), harmful substances in electronic and electrical products will not leak or mutation under normal use conditions, users use the electronic information products will not cause serious pollution to the environment or serious damage to their personal and property. This product meets the RoHS environmental protection requirements: there is no international mature technology to replace or reduce the lead content in electronic, ceramic optical glass, steel and copper alloys.

Ⅸ Product warranty

Thank you for purchasing our products, to ensure the interests of the users, any user who buys the quality products can contact the local dealer or special maintenance station with the invoice and warranty card.

Warranty Instructions:

1. Within one year from the date of purchase, in the case of normal use, the company shall provide free warranty parts replacement and other services according to the fault situation;

2. Warranty card and purchase invoice are the vouchers for the company to provide after-sales service to customers. This card must be filled in the following form in detail, and can only be valid with the official seal of the dealer;

3. Under one of the following circumstances, warranty service is not implemented, and fee maintenance is required,

(1) Over the validity period of the warranty;

(2) Damage by failure to use, maintain or keep improperly as required by the product instructions;

(3) Fault and damage caused by the disassembly, repair and modification of the product without the permission of the Company;

(4) Machine failure or damage caused by force majeure;

(5) Damaged parts and random accessories.