

Face Recognition Device F2 Manual



RAKINDA IOT Technology Co. Ltd.

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RAKINDA Face Recognition Terminal F2 Description



I. Application Scenario

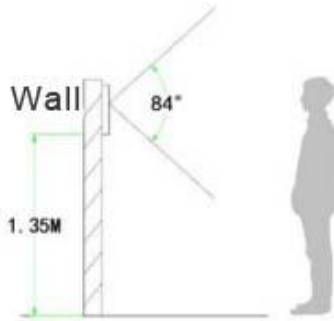
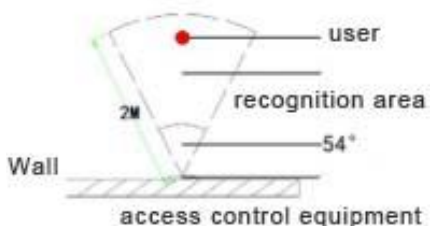
It is suitable for offices, hotels, facial turnstile, office buildings, schools, shopping malls, shops, communities, public services and management projects that require face access control.

II. Product Characteristics

- Dynamic dual camera anti-counterfeiting, completely solve the deception of various photos on various carriers;
- Night infrared, RGB dual fill light;
- Support external access control card reader, ID card reader;
- Support RS-485 serial port, Wiegand 26/34 output interface, support relay, door switch, door magnetic output content;
- Support device local storage history record 50000 people;

- When the face database is 10000;
- Support public network, local area network use deployment mode;
- Support for HTTP inter face docking;
- Support screen display content configuration;
- The recognition distance configuration is supported.

III. Product Specification Sheet

Face Recognition Integrated Terminal			
Product Model	F2		
Screen	Size	8 inch, full viewing angle, 170 ° IPS LCD screen	
	Resolution	800*1280	
Camera	Type	RGB	Infrared
	Resolution	2 million pixels	2 million pixels
	Aperture	F2.8	F2.8
	Focal Length	3.18mm	3.18mm
	White Balance	Automatic	Automatic
	Wide Dynamic	Support	Support
	Vertical Wide Angle		
Horizontal Wide Angle			
Basic Specifications	Operating System	Android 7.1 and above	
	Equipment Power	DC12V (±10%) 3A	
	Equipment Power Consumption	15W MAX	

	Relative Humidity	0% -90% (without condensation)
	Operating Temperature	-20℃~60℃
	Protection Class	IP55(Wall-mounted version: the junction with the eight or six boxes is not waterproof, and a ceiling is required)
	Use Environment	Indoor, outdoor
	Equipment Size	275.2mm*123.2mm*30.2mm
Hardware Configuration	Identification Method	Human face
		Mifare card (optional: purchased module required)

		Resident identity card (optional: need to purchase module)
	Face Recognition Parameter	Face verification accuracy rate $\geq 99\%$
		Face recognition distance 0.5 m ~ 1.5m
		Witness comparison time 600ms / person
		20,000 local faces
	Interface	1 MicroUSB interface
		RJ45 Gigabit network 1
		Relay output
		Wegan interface
		RS-485
		Gate Magnet
		Exit switch
		Power
	Infrared Fill Light	Support
	White Fill Light	Support
Indicator Light	Supports green light prompts for authentication success and red light prompts for authentication failure	
Speaker	Double horn, 1.0W	
Mito	Non-noise reduction (optional)	
Basic Parameters	WIFI	2.4G 802.11b/g/n
	Bluetooth	Bluetooth4.0
	4G LTE	Full Netcom (optional: custom purchase required)

IV. F2 Terminal Type Icon

①Wall Mounted Version:

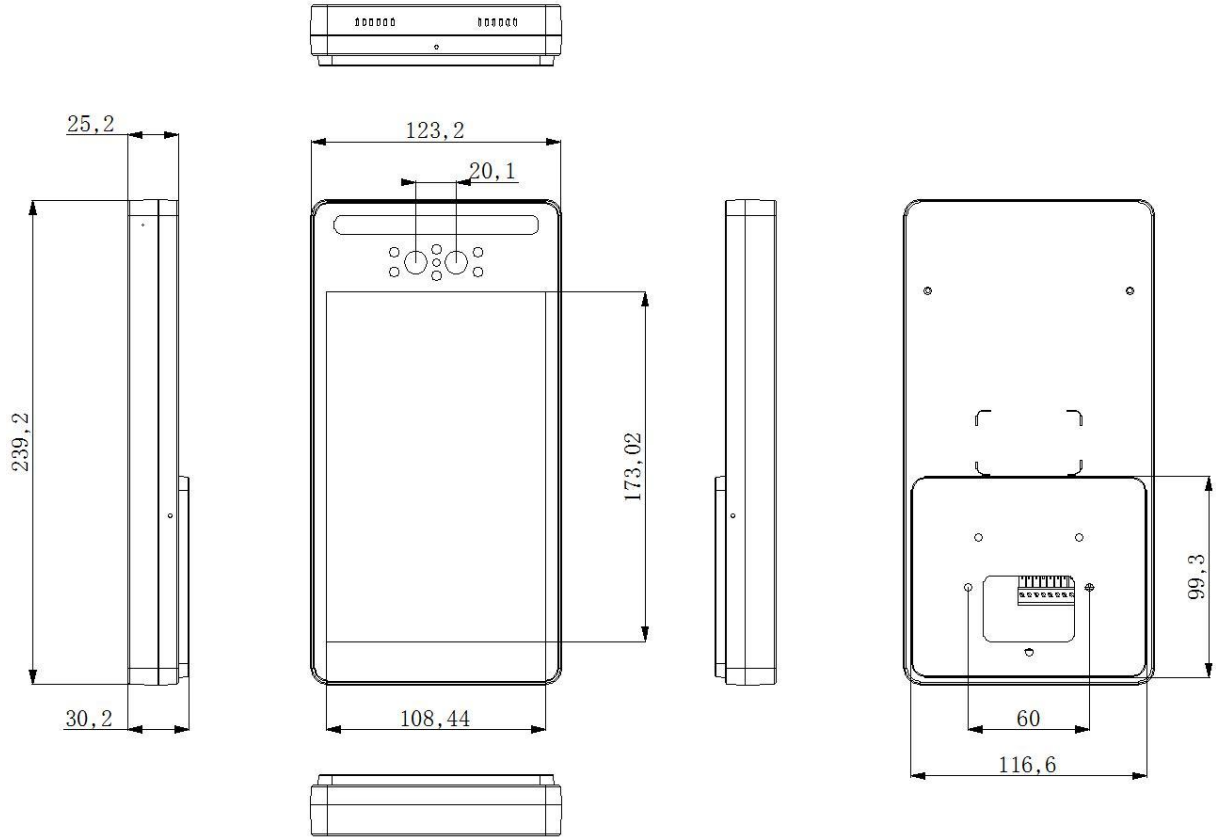


②Turnstile Version:

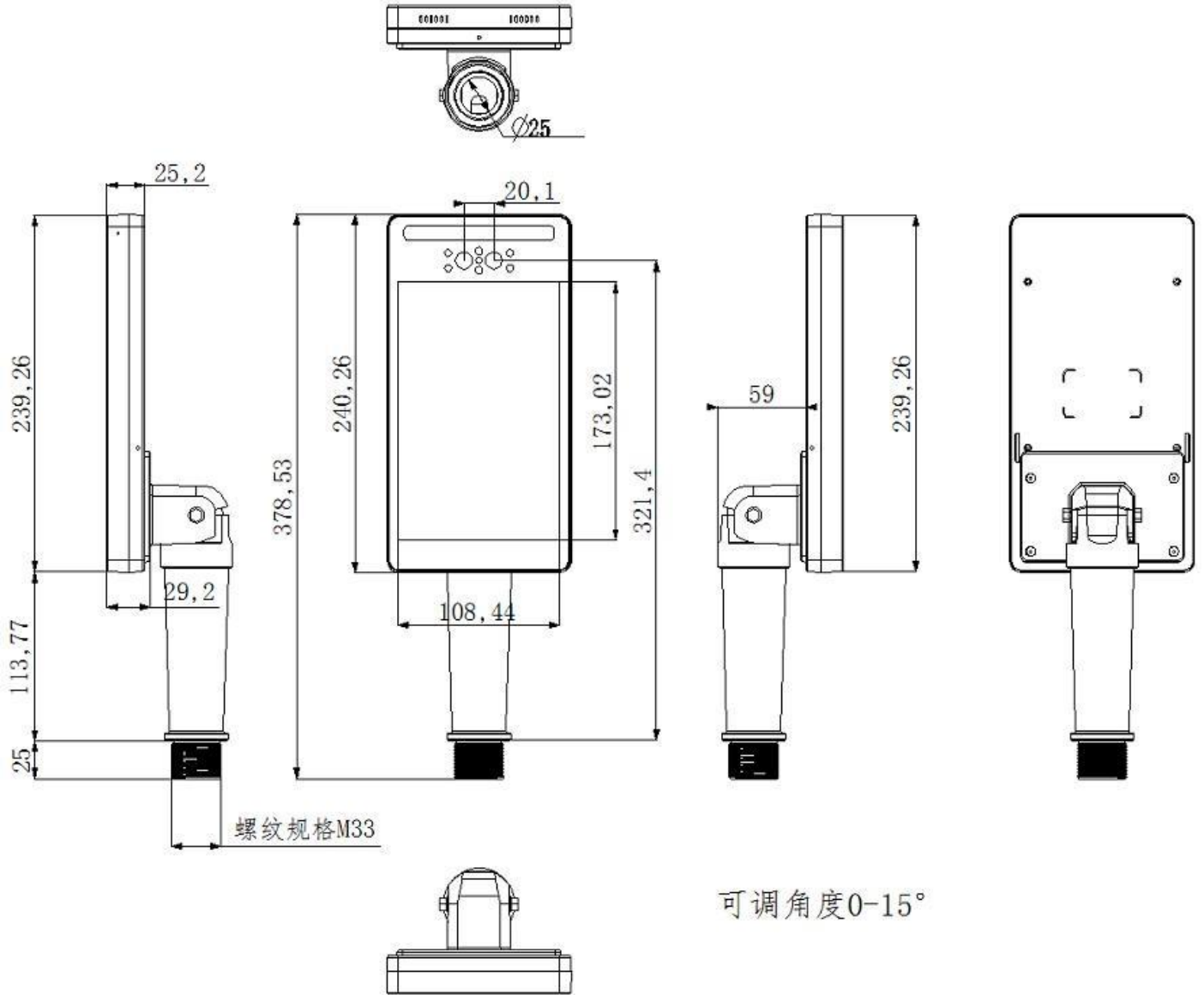


IVI F2 Access Control Machine Dimensions

① Wall-mounted profile and dimensions (275.2mm*123.2mm*30.2mm);



②Turntile version profile and dimensions (275.2mm*123.2mm*30.2mm);

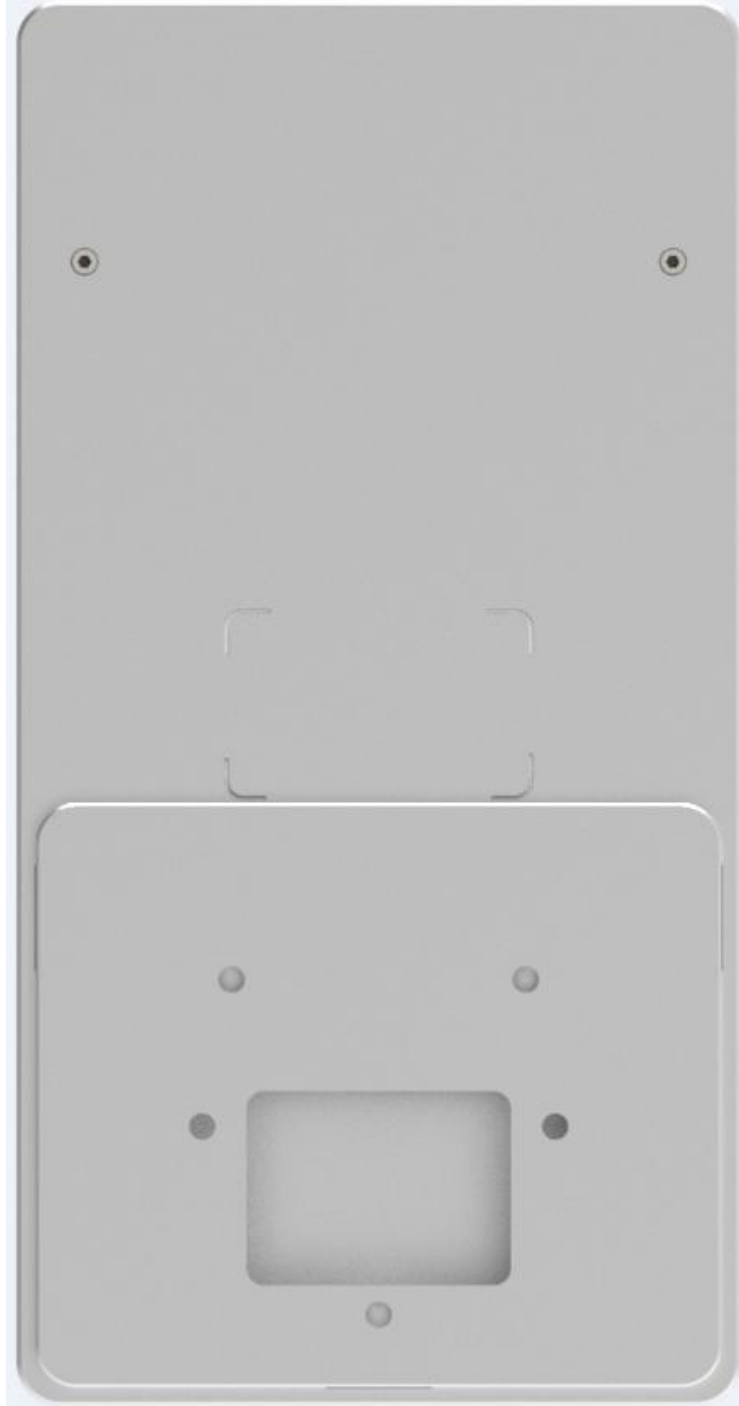


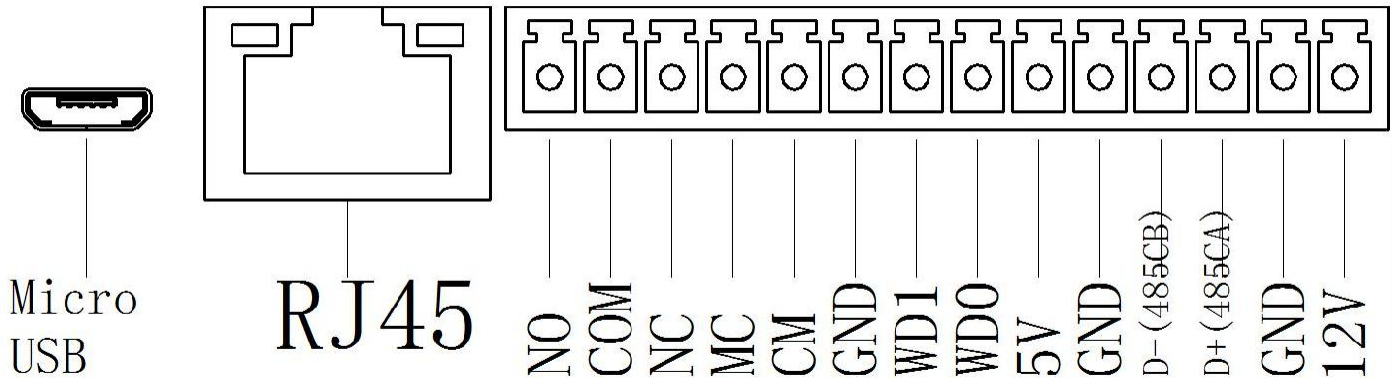
VI. Appearance Site Indication And Wiring Description

(I) Description Of The Front Part Of The Machine

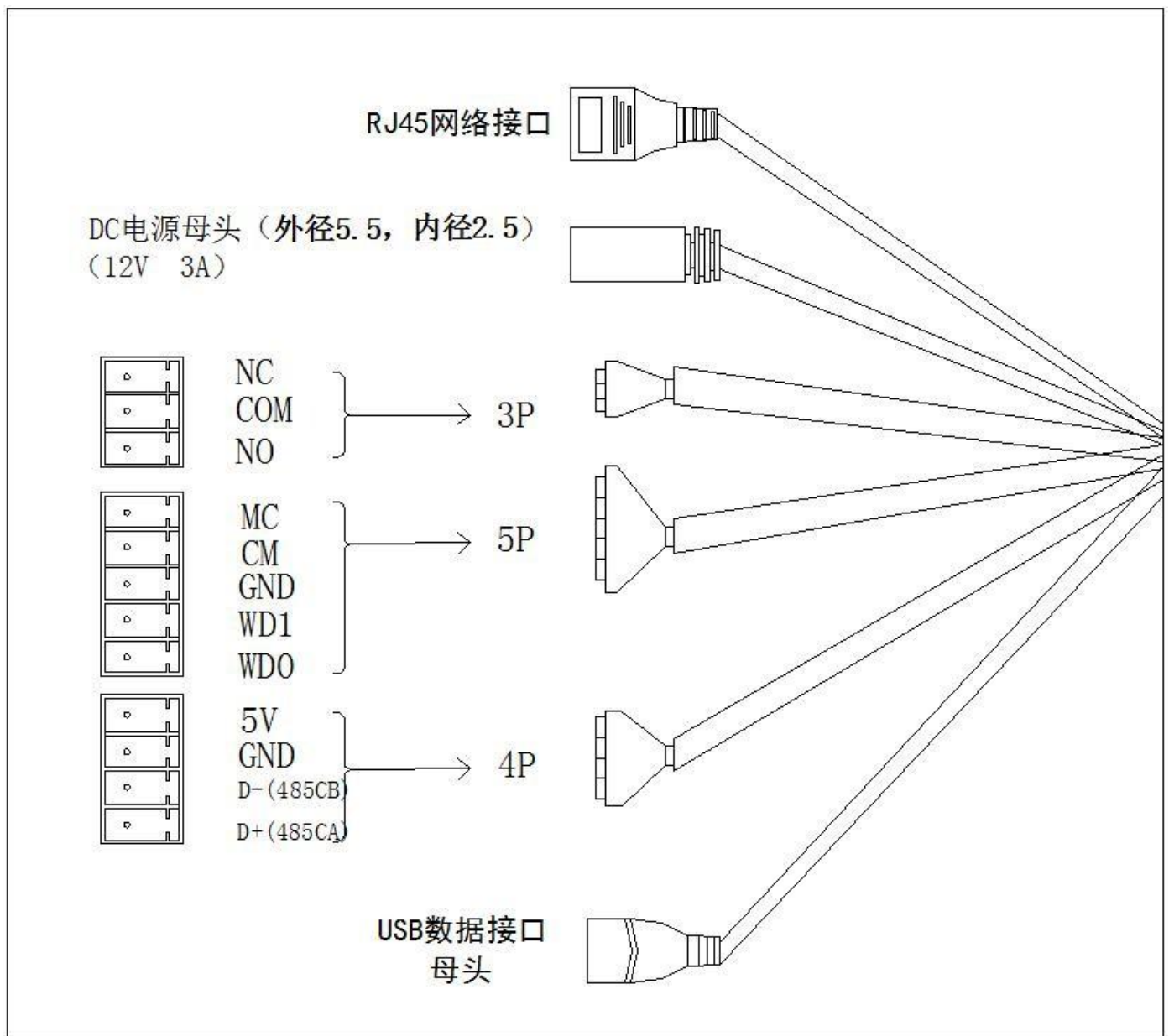


(2)Description Of Access Control Wall Connection.





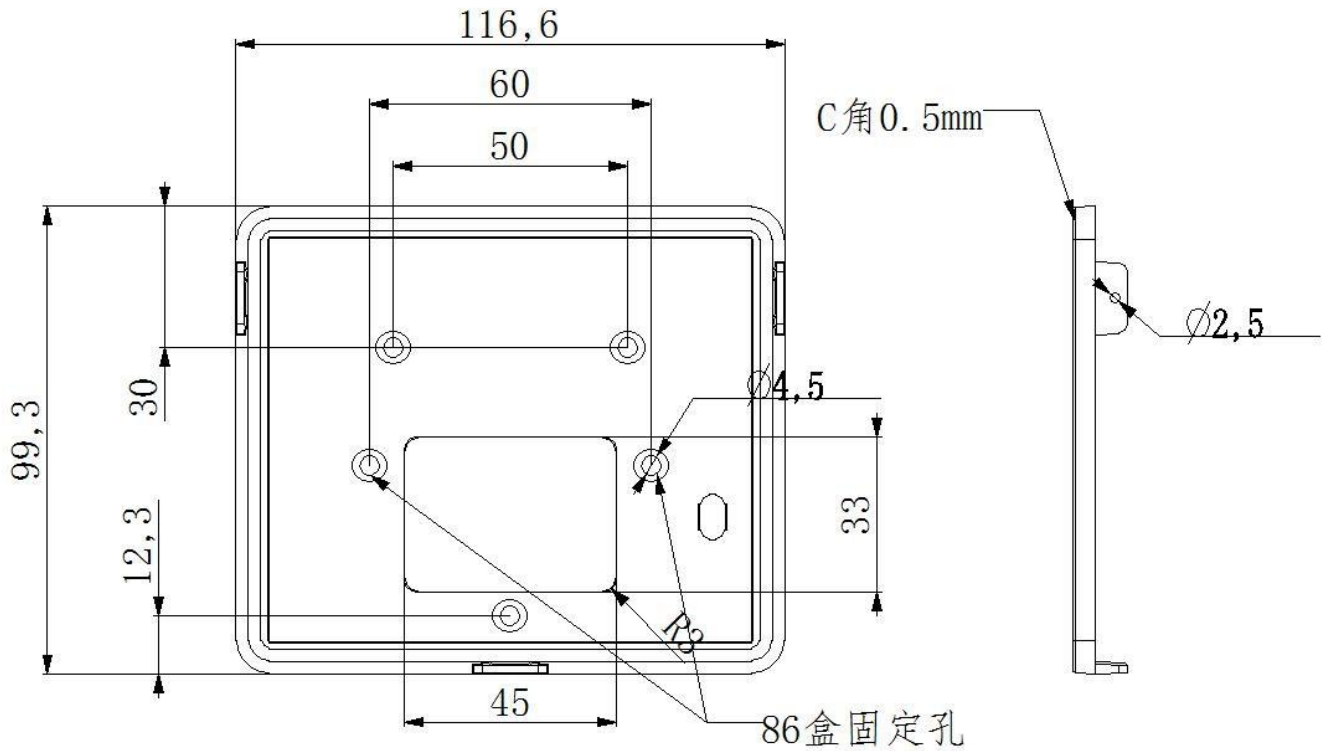
(3) Access Control Turnstile-Integrated Wiring Harness Wiring Description



VII. Installation Steps

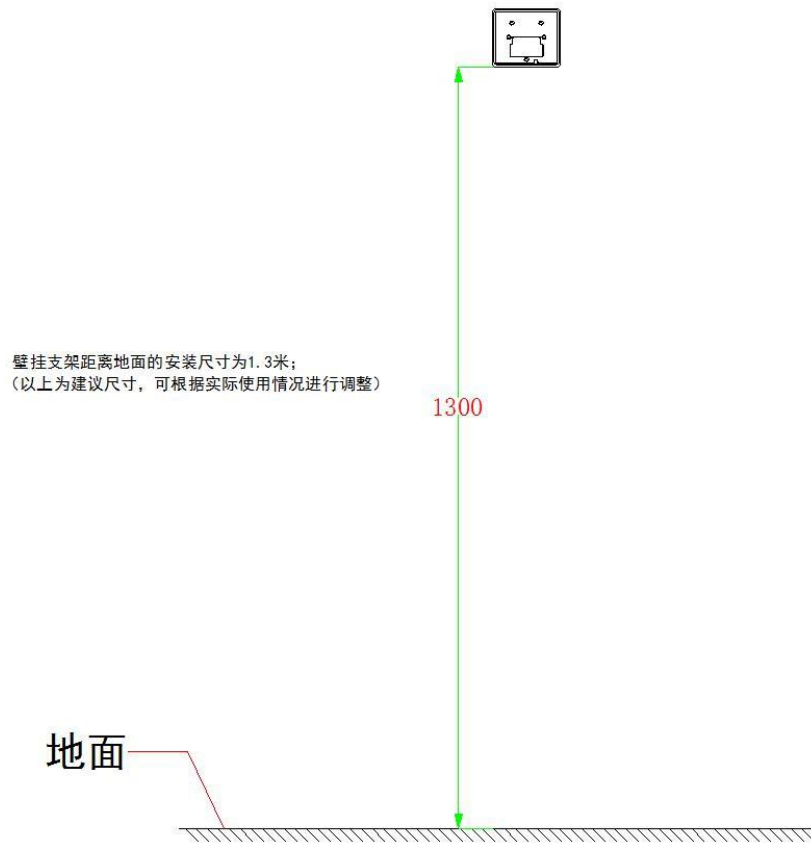
(一) F2 Installation of access control wall mounted

① Dimension description of wall-mounted support;

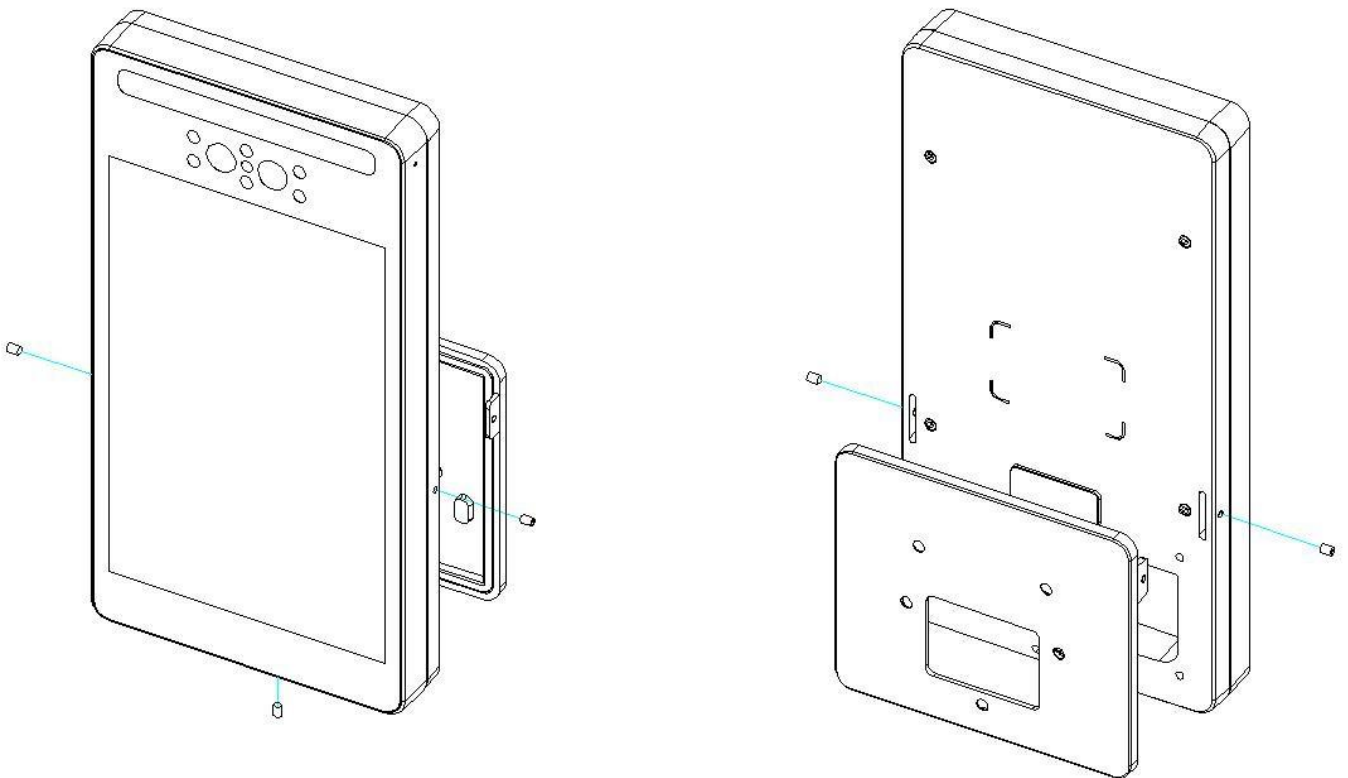


Note: the product packaging is accompanied by 86 boxes of machine tooth screws and plastic expansion screws;

② Installation position of wall-mounted support;



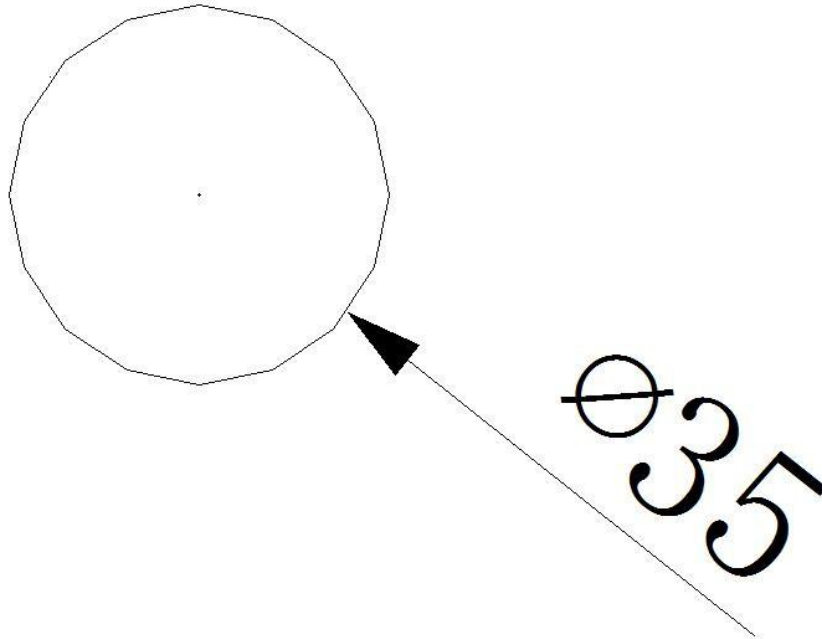
③ Method for fixing wall hanging bracket and product terminal;



Note: The fixed terminal can be packaged with four set screws M3 * 5.

(2) F2 Installation of Access Turnstile

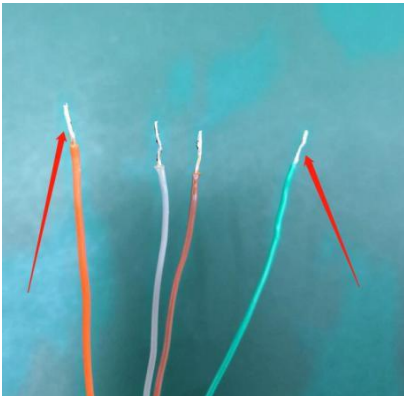
Gate fixing hole needs ϕ 35 through hole, GB812 nut fixed column can be fixed.



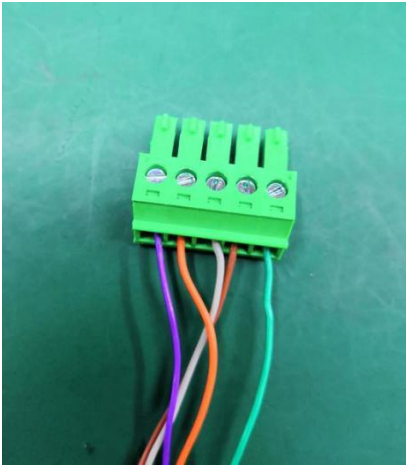
(3) instructions for wiring operation (take turnstile as an example, other wiring, and so on)

① Peel off the signal wire (using stripping pliers and other tools) to reveal the wire, about 5mm, if there are conditions, it is best to add solder, as shown in the figure;

② Unplug the screw at each corresponding interface, insert the metal wire head into the hole,



tighten the screw, and remember to do the tension test after locking to ensure the stability, as shown in the figure.



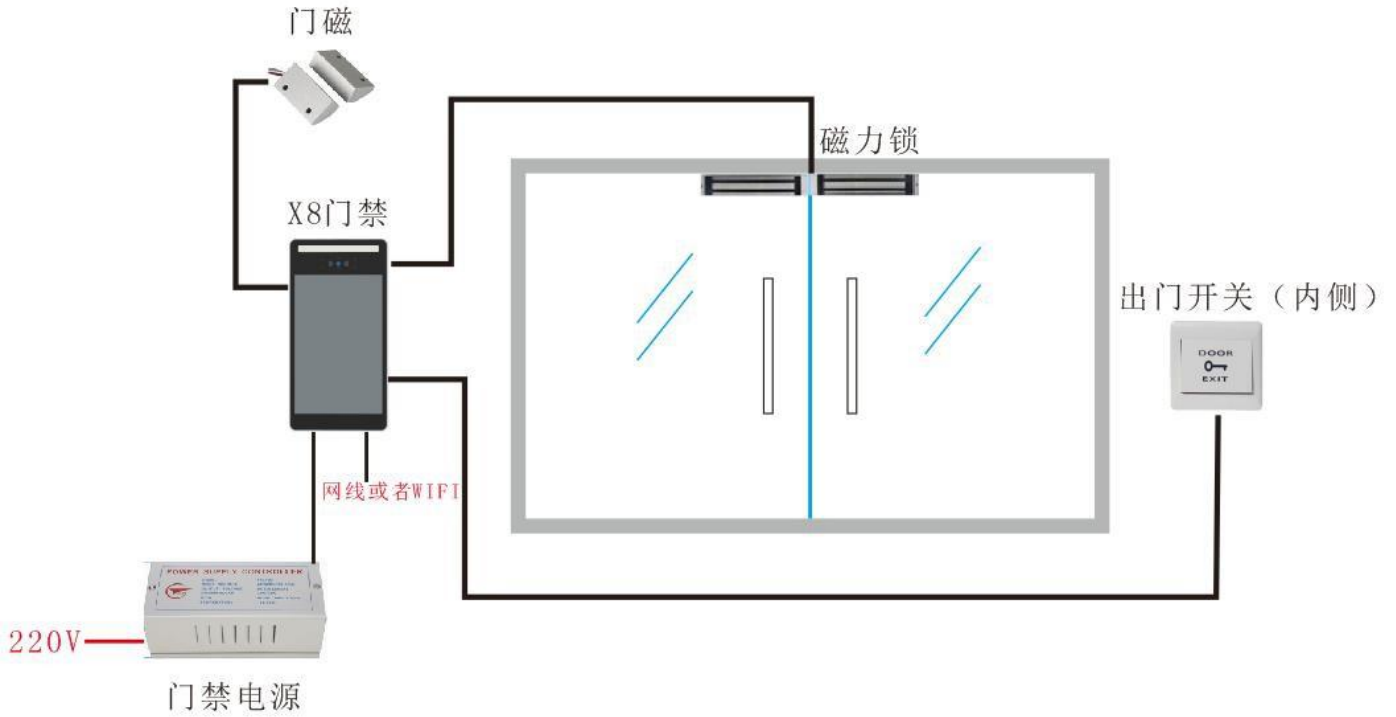
VIII. Access Control Machine Packaging And Instructions

(I) List Of Materials / Tools

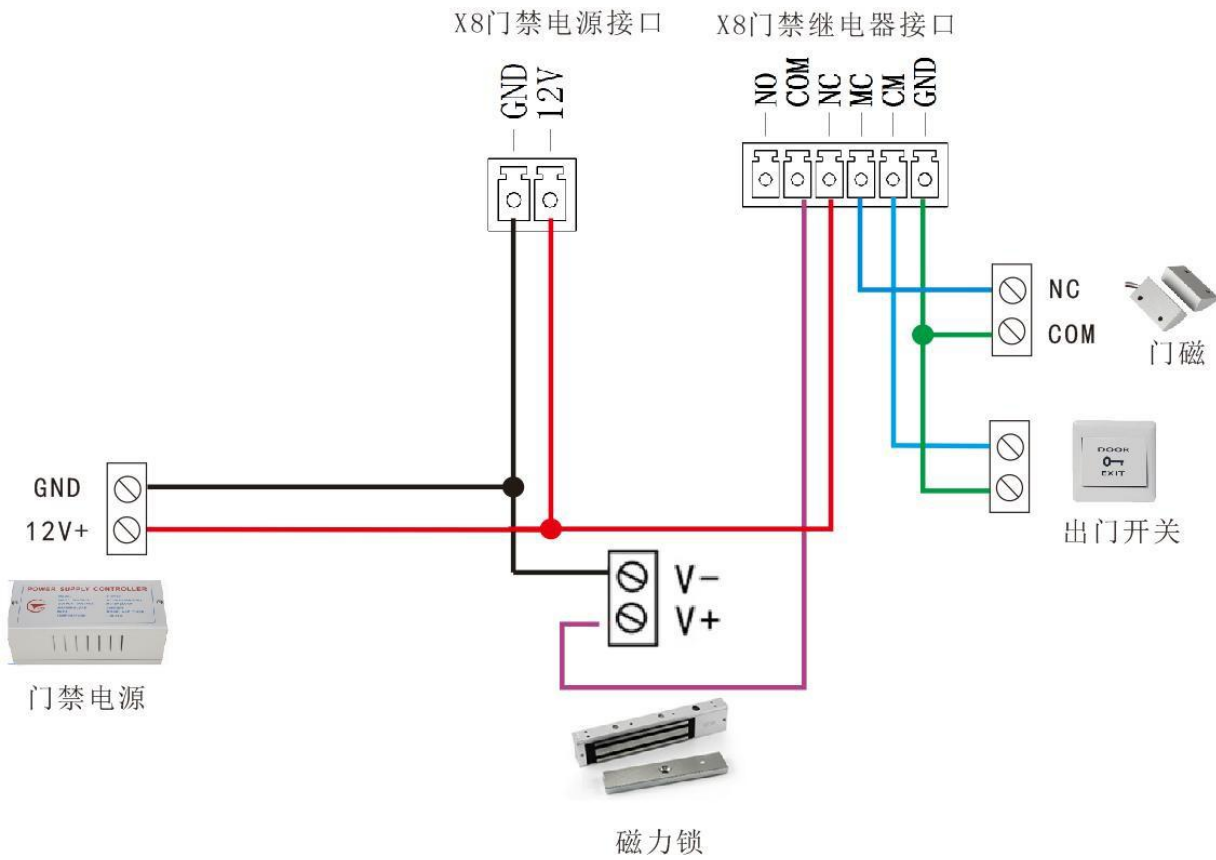
Serial number	Material / tool name	Dosage	Description
1	Host and its own accessories	1	Comes with accessories including: 12V adapter, wall mount bracket, Expansion tube, self-tapping screw, hexagon socket wrench, hexagon socket screw, etc.
2	Exit switch (optional: need to purchase)	1	Use when going out (no need to match if already)
3	Electromagnetic lock (optional: need to purchase)	1	Open the door when power is off, lock the door after power on (no need to match if it already exists)
4	Magnetic lock power supply (optional: needs to be purchased)	1	Power supply for electromagnetic lock, can also supply power to Uface host (No need to match if it already exists)
5	Network cable (optional: needs to be purchased)	Several	For routing Ethernet and other remaining traces
6	Network cable pliers, network tester, diagonal pliers, Electrical tape, wire buckle	Several	For routing Ethernet and other remaining traces
7	Drilling Tool	Several	Used to install equipment and wiring

(II) Magnetic Door Wiring

1. Installation Diagram Of Magnetic Door System;



2. Magnetic Door System Wiring Diagram;

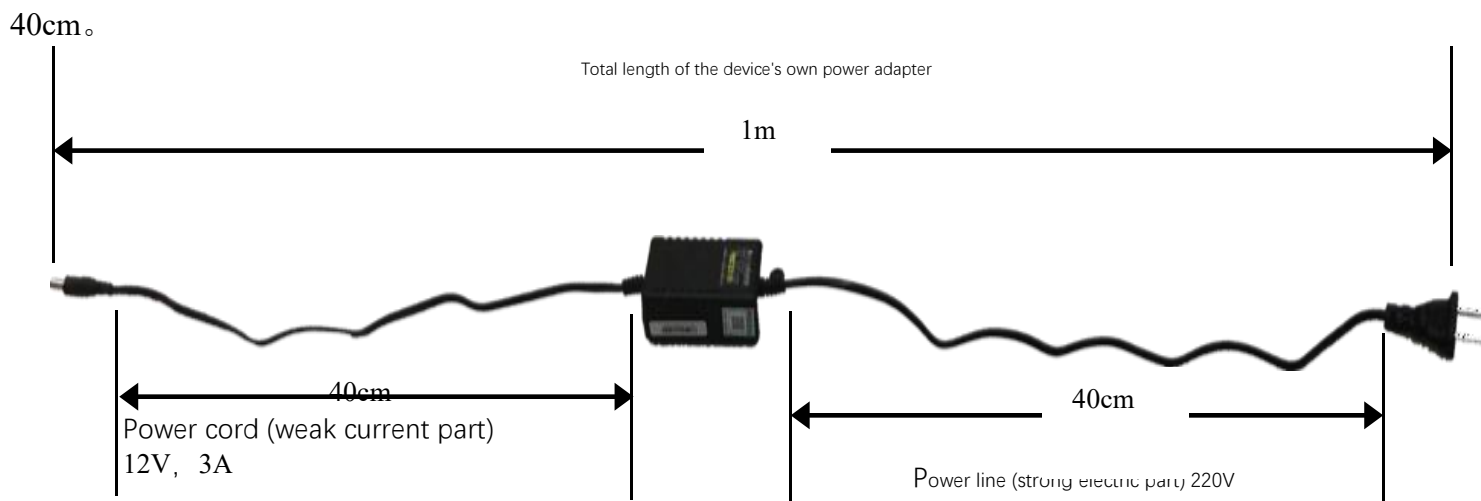


VIII. Installation Precautions

1. In actual wiring, if the 12V power supply line of the host does not use a "dedicated power extension cable" and the distance is long, which causes the equivalent resistance of the cable to be too large, the terminal voltage is insufficient ($\leq 11V$), the host restarts repeatedly, and crashes And other anomalies.

2. Power line (strong electric part) 220V, **the maximum voltage of the load of the magnetic lock (or other entrance guard control unit) cannot exceed DC12V, and the maximum current cannot exceed 3A. If the breakdown relay is exceeded, the door can not be opened.**

3. The self-contained power adapter of the equipment is shown in the figure, with a total length of 1 meter, in which the power line (weak current part) is 40 cm, and the power line (high-voltage part)



- The extension of the power cable (weak current part) must not exceed 3 meters, otherwise the power supply of the host side of the device will be insufficient, and repeated abnormalities such as restarts and crashes will occur. If the power supply is far away from the equipment, you can extend the power cord (high-power part).
- If other adapters are used, such as 9V, 1A, the voltage is insufficient, the current is too small to cause the device to be restarted repeatedly.
- The cables used should not be too thin (such as network wires). It is recommended to connect multiple identical cables in parallel or use copper core thickened cables to ensure that the voltage is more than 11V.

i Note: If using a network cable, use an extension cable with 4 strands as the positive electrode

and 4 strands as the negative.

- If you do not know how to extend, please contact the supplier to replace the special power extension line.

