

# Face Recognition Device F702 User Manual

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Vision:V1.0

Date:2020.08.07



## I. Application Scenarios

Suitable for office areas, hotels, office buildings, schools, shopping malls, stores, communities, public service, and other places that require access control, attendance, identity verification, and face verification management.

## II. Product Features

- Wide dynamic binocular camera, supports liveness detection;
- Efficient infrared lighting;
- Optional temperature measurement function module;

- Optional human body movement detection module;
- Optional NFC card reader, ID card reader, sunshade, 86 installation box;
- Supports RS-485 serial port, built-in relay, multiple I/O inputs and outputs, door magnetic output;
- Supports public network and local area network deployment methods, optional 4G communication module;

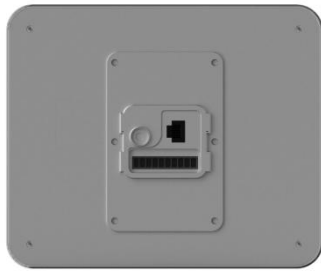
### 三.Product Specifications

Face Recognition Integrated Terminal			
Product Model		F702	
Screen	Size	7 inch	
	Resolution	800*480 dpi	
Camera	Type	Color	Infrared
	Resolution	2.0 Megapixels	1.0 Megapixels
	Aperture	F2.4	F2.4
	Focal Length	3.0MM	3.0MM
	White Balance	Automatic	Automatic
	Wide Dynamic	Supported	Supported
	Vertical wide angle		
Horizontal			
Basic Specifications	Operating System	Android 8.1.0 BOZZ OS	
	Processor	RK PX30 Rockchip Electronics Quad-core Cortex-A35 up to 1.5GHz	
	Memory	1G DDR+8G EMMC Optional: 4G DDR+16G/32G/64G EMMC	
	Device Power	DC 12V/3A	
	Device Power Consumption	9.8W Max	
	Relative Humidity	0%-90% (non-condensing)	
	Operating Temperature	-10°C ~ 55°C	
	Storage Temperature	-20°C ~ 70°C	
	Protection Level	IP54	
	Usage Environment	Indoor	
Device Dimensions	158.58mm*190.38mm*33.15mm		

Hardware Configuration	Recognition Method	Face Recognition
	Interface	RJ45 LAN port*1
		Micro-USB debug port*1
		DC power port*1
		RS485*1 port
		Relay Switch interface*1
		ALM *1
	Infrared Supplemental Light	Support
	White Light Supplemental	Support
	Temperature Measurement	Supported (Optional: Requires custom purchase)
Speaker	2W*1	
Basic Parameters	WIFI	2.4G support IEEE 802.11b/g/n
	Bluetooth	Support BT2.1/3.0/4.0/4.2
	Communication Method	4G Full Net (Optional:Requires custom purchase)
Packaging Parameters	Weight	TBD
	Size	TBD

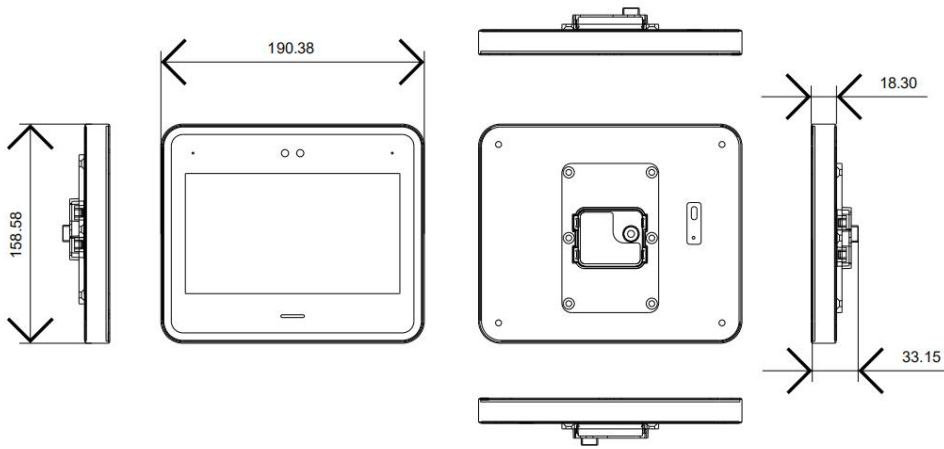
## F702 Terminal Type Illustration

### Wall-mounted Shape Diagram



## F702 Access Control Machine Dimensions

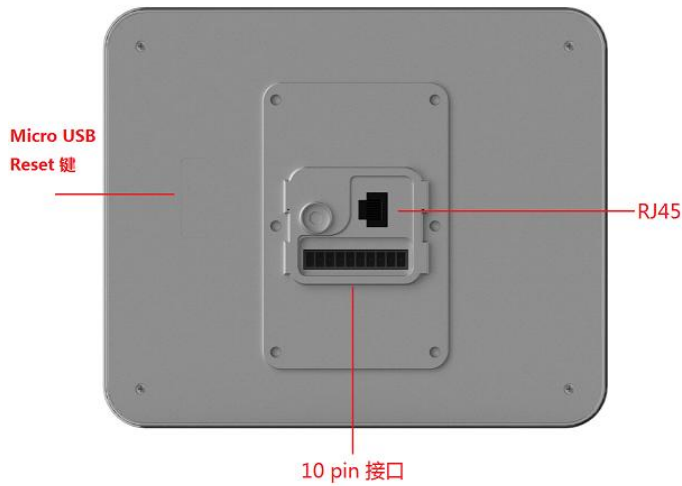
Wall-mounted vesion dimensions (158.58mm\*190.38mm\*33.15mm)



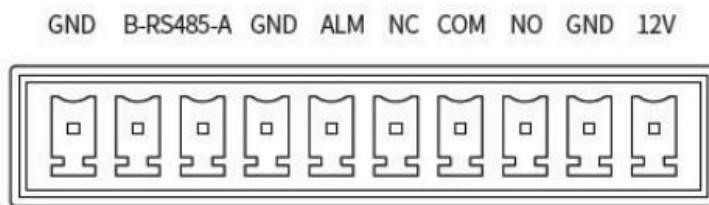
## F702 Appearance Part indication and wiring Instruction

### (一) Access control machine front part explanation





## (二) Access Control Wiring Instructions



12V	12V电源正极
GND	信号地
NO	门禁常开端
COM	门禁公共端
NC	门禁常闭端
ALM	开门按钮信号
GND	信号地
RS 485A	RS 485A
RS 485B	RS 485B
GND	信号地

### Notes:

- 1、The relay interface control the opening and closing of the access control(similar to a switch and can also power the device).
- 2、The RS485 interface can communicate with the external access control corresponding to the

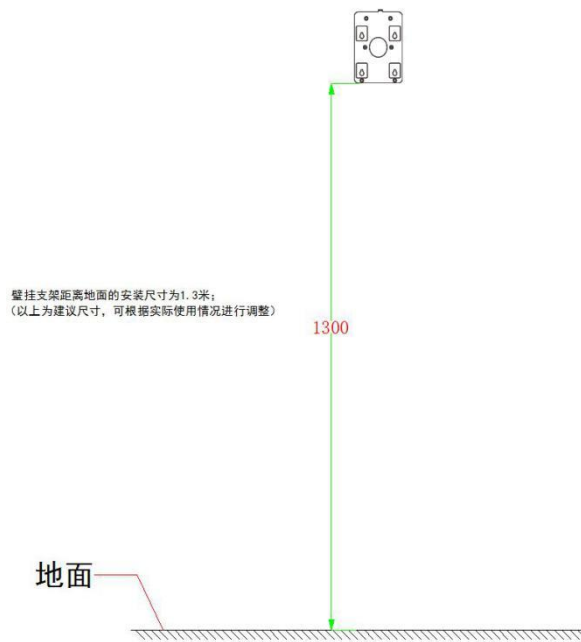
RS485 interface

- 3、The ALM port is an optional connection port, which can also be an output port, depending on the needs to connect or not connect, without affecting the use.

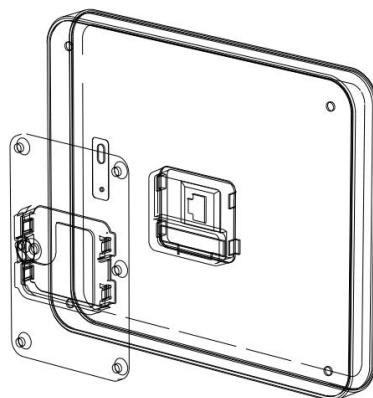
## Installation

### Installation of F702 access control wall-mounted version

Note: If the product is equipped with an 86 box, the packaging includes 86 box machine teeth screws and plastic expansion screws.



Wall-mounted bracket and product terminal fixing method;



Note: Fix the terminal with one M3 nti-tamper screw,which is included in the packaging

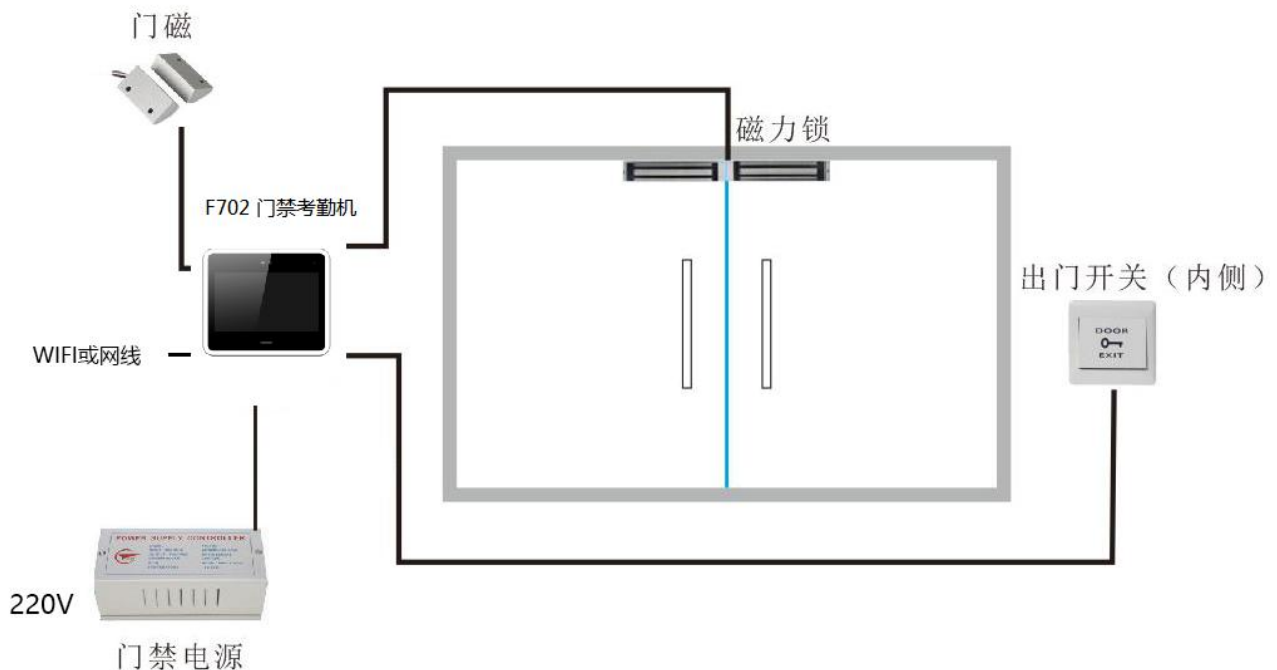
## Access Control Machine Packaging and Usage instructions

### (一) Material/Tool list

No.	Material/Tool name	Quantity	Description
1	Accessories include	1	12V adapter, accessory screws, wall-mounted bracket, desiccant, warranty card,
2	Exit switch (optional: requires external purchase)	1	Used when exiting (if already available, no need to purchase again)
3	Electromagnetic lock (optional: requires external purchase)	1	Opens the door when power is cut, locks the door when power is on (if already available, no need to purchase again)
4	Magnetic lock power supply (optional: requires external purchase)	1	Supplies power to the magnetic lock, can also supply power to the Uface host (if already available, no need to purchase again)
5	Ethernet cable (optional: requires external purchase)	Several	Used for laying Ethernet and other remaining wiring
6	Cable cutter, network tester, diagonal cutter, electrician's tape, wire clamp (optional: requires external purchase)	Several	Used for laying Ethernet and other remaining wiring
7	Drilling tool (optional: requires external purchase)	Several	Used for installing equipment and wiring

### (二) Magnetic gate connection

#### 1.Installation diagram of magnetic door system;



## Installation Precautions

- (1) The wiring of the face recognition access control system must be neat, securely installed, and effectively prevent the occurrence of electrical safety accidents.
- (2) When actually wiring, if the host's 12V power supply line does not use a "special power extension line" and the distance is too long, resulting in excessive equivalent resistance of the cable, it can easily lead to insufficient terminal voltage ( $\leq 11V$ ), repeated restarts, and crashes of the host.
- (3) It is necessary to make anti-interference design. When installing the face recognition access control machine, consider the electromagnetic signal interference of lighting, computers, printers, and other equipment during communication transmission. It is recommended that the distance between the access control recognition device and the power source should not be less than 30CM.
- (4) This device has a built-in relay device, and the maximum voltage of the magnetic lock (or other access control group) load should not exceed DC12V, and the maximum current should not exceed 3A. If exceeded, it will blow the relay and cause the door to not open.
- (5) The power adapter included with the device is 1.8 meters long in total. The power cord extension should not exceed 3 meters, otherwise it will cause insufficient voltage supply at the host end of the device, leading to repeated restarts, crashes, and other abnormal phenomena. If using other adapters, such as 9V, 1A, insufficient voltage, and too small current will cause the device to restart repeatedly.

The cable used should not be too thin (such as thin network cables). It is recommended to use multiple parallel cables of the same type or use thicker copper-core cables to ensure the voltage is  $>11V$ .

Note: If using network cables, use 4 cores for the positive pole and 4 cores for the negative pole.

If you are not sure how to extend, please contact the supplier to replace with a "special power extension line."