

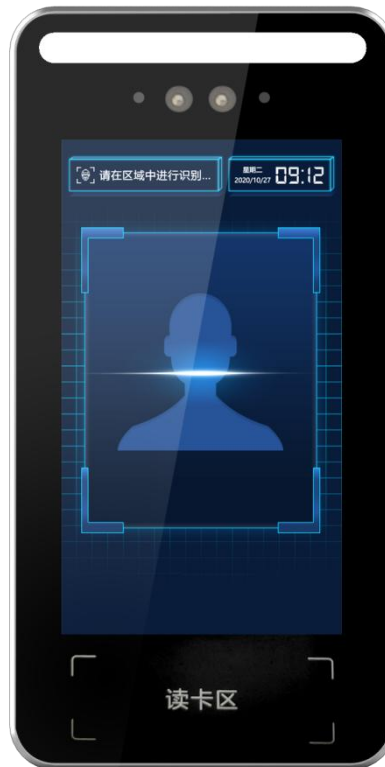
Face Recognition Attendance and Access Control Product F502 instructions



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Release version: V 1.0

Description of Facial Recognition Terminal F502



1 .application scenarios

Ideal for office areas, hotels, office buildings, schools, shopping malls, stores, communities, and public service facilities requiring access control permissions, attendance tracking, ID verification, and facial recognition management.

2 .product features

- 2 million HD cameras
- Supports backlight status light (three colors)
- Supports NFC card reader
- Supports RS-485 serial port, built-in relay, multiple I/O inputs and outputs, and door magnetic sensor output.
- Supports deployment methods for public networks and local area networks
- Optional support for TP multi-touch functionality
- Optional 4G communication module;
- Optional dual-camera system or body temperature monitoring module;
- TOF human body sensor is optional.
- Optional external ID card reader, fingerprint module, sunshade cover, and 86 installation box are available.

3 .Product Specification Sheet

Face Recognition Integrated Terminal		
product model	F502	
screen	size	IPS LCD screen, 4.95 inches
	resolution ratio	480* 854
camera	Face recognition camera	200 W (optional dual-eye 2M+1.3M)
	Scan the camera	100W, supports 5-15cm
Basic Specifications	operating system	Android 7.1 BOZZ OS
	processor	RK3288/RK3399/RK3566 (optional)
	memorizer	2+ 8GB storage, optional: 4G DDR+ 16GB/32GB/64GB EMMC
	device power supply	DC 12V/3A (Optional: POE, external power supply)
	Device power consumption	9.8W Max
	relative humidity	0%-90% (in the absence of condensed water droplets)
	working temperature	-10°C ~ 55°C
	Storage temperature	-20°C ~ 70°C
	service environment	Indoor, sheltered outdoor
	Device size	86mm* 170mm* 15 mm
hardware configuration	RM	human face
	joggle	RJ45 LAN port *1
		Micro-USB debugging port*1
		DC power port *1
		RS485*1
	factory data reset	Relay switch interface*1
		ALM access control button switch interface*1
	Restart key	One-click recovery, device back
	White fill light	Optional: Reduced protection level
	Anti-demolition from walls	Supports (three colors)
	Watchdog function	Supports (wall-mounted anti-tampering, Hall switch)
	sensitization IC	support
	4G communication	support
	human body induction	4G full-network compatibility (optional: requires customized procurement)
		Optional (Microwave / TOF)

	talk back	selectable (MIC)
	loudspeaker	2W*1
essential parameter	WIFI	Optional: 2.4G supports IEEE 802.11b/g/n
	PDA	Optional: Supports Bluetooth 2.1/3.0/4.0/4.2
	communication mode	Optional: 4G full-network compatibility (requires custom procurement)
Package parameters	weight	0.8 Kg
	size	100mm* 200mm* 30 mm

4 . F502 Terminal Type Diagram

Wall-mounted exterior design diagram



5. External dimensions of F502 access control system



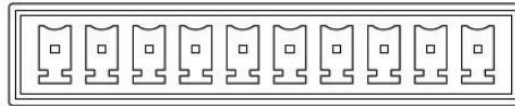
6 .Appearance indicators and wiring instructions

(1) Location Description of Access Control Unit



(II) Access Control Interface Description

GND B-RS485-A GND ALM NC COM NO GND 12V



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

lime light :

1. The relay interface controls access control door operation (similar to a switch) and can also provide power supply independently.
2. The RS485 interface enables communication with external access control systems.
4. The ALM port is a selective connection port that can also function as an output port. Users may choose to connect or disconnect it as needed without affecting functionality.

7 .install

Installation of F502 Wall-Mounted Access Control System

Note: If the 6-box includes 8 6 and plastic Instructions for wall-mounted

壁挂支架距离地面的安装尺寸为1.3米;
(以上为建议尺寸, 可根据实际使用情况进行调整)



product is selected with an 8 configuration, the packaging boxes of machine tooth screws expansion screws. the installation position of brackets;

地面

Fixation method of wall-mounted bracket and product terminal;



Note: The fixed terminal can be secured with a single M3 anti-tamper screw, which is included in the packaging.

8 .Packaging and Usage Instructions for Access Control Devices

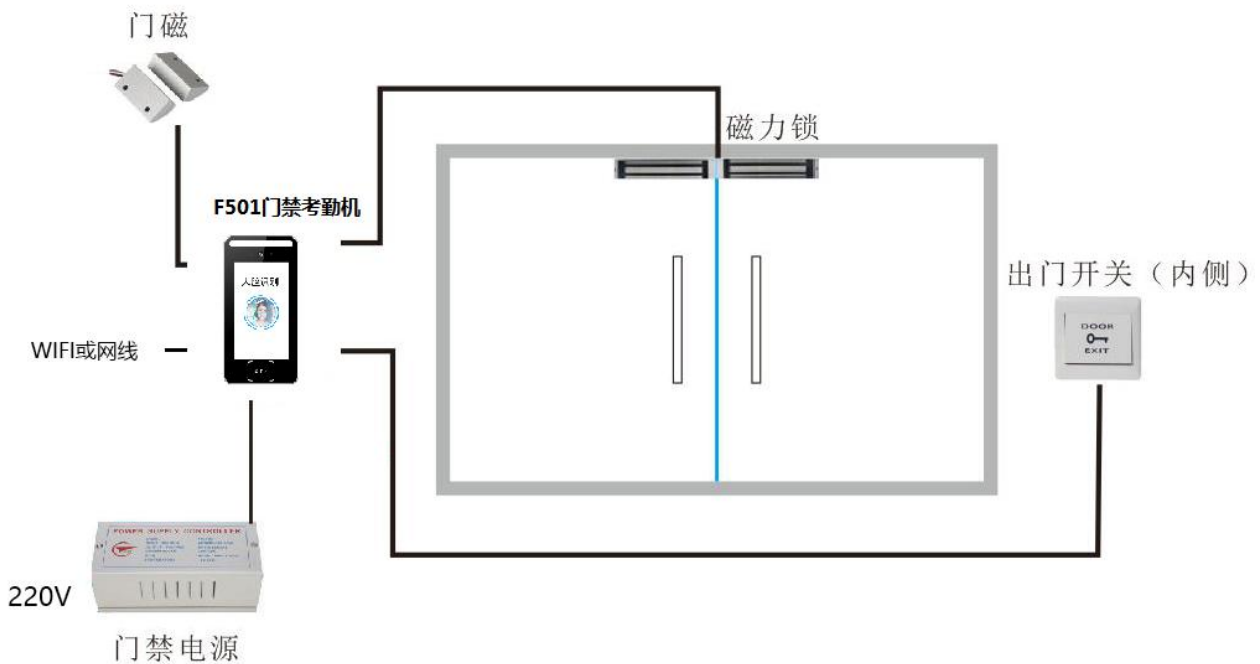
(1) List of Materials/Tools

order number	Material/Tool Name	dosage	explain
1	Host and built-in accessories	1	The included accessories consist of: 12V adapter, power adapter cable, disassembly kit for mounting box, accessory screws, wall mounting bracket, desiccant, warranty card, inspection certificate, and packing list.
2	Door switch (optional: requires external purchase)	1	Use when going out (not required if already equipped)
3	Electromagnetic lock (optional: requires external purchase)	1	Open the door after power-off, then lock it after power-on (if already equipped, this step is unnecessary).
4	Magnetic lock power supply (optional: requires external purchase)	1	Power supply for electromagnetic lock, capable of simultaneously powering the Uface host

			(If already present, do not need to match again)
5	Ethernet cable (optional: requires external purchase)	a surname	For Ethernet and other residual wiring deployment
6	Wire clamp, network tester, bevel pliers, electrical tape, wire clip (optional: requires external purchase)	a surname	For Ethernet and other residual wiring deployment
7	Drilling tools (optional: externally sourced)	a surname	For installing equipment and routing cables

(II) Wiring of Magnetic Door

1. Schematic diagram of magnetic gate system installation;



9 . Installation Notes

1. The wiring of the facial recognition access control system must be rational and orderly, with secure installation to effectively prevent electrical safety accidents;
2. During actual wiring installation, if the host computers 12V power supply line does not utilize a "dedicated power extension cable" and has an excessively long distance, resulting in excessive cable equivalent resistance, abnormal phenomena such as insufficient terminal voltage ($\leq 11V$), repeated host restarts, and system crashes may easily occur.

3. Proper anti-interference design must be implemented. When installing facial recognition access control systems, electromagnetic signal interference from other devices such as lighting, computers, and printers during communication transmission should be considered. It is recommended that the installation distance between access control recognition devices and power supplies be no less than 30 cm.

4. This device incorporates built-in relay components. The magnetic lock (or other access control unit) must not exceed a maximum voltage of DC12V or a maximum current of 3A. Exceeding these limits will cause relay breakdown, resulting in door failure.

5. The device comes with a built-in power adapter with a total length of 1.8 meters.

- The power cord extension should not exceed 3 meters, as exceeding this length may cause insufficient voltage supply to the device's main unit, resulting in abnormal phenomena such as repeated restarts and system crashes.
- Using other adapters (e.g., 9V/1A) may cause the device to restart repeatedly due to insufficient voltage or low current.
- The cables used should not be too thin (e.g., thin Ethernet cables). It is recommended to use parallel multi-strand cables of the same type or thicker copper-core cables to ensure a voltage > 11V.

Note: If using a network cable, use a 4-core extension cable with the four cores serving as the positive and negative terminals.

- If you are unsure how to extend the power supply, contact the supplier to replace it with a dedicated power extension cable.