

Shenzhen Rakinda Technologies Co.,Ltd.		File No.:	Version:	
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	Face Recognition Thermal			
File Name	Imaging Temperature		Date	Apr., 23, 2020
	Measuring Device			
	F2-H Manual			

Face Recognition Thermal Imaging Temperature Measuring Device

F2-H Manual



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Face Recognition Thermal Imaging Temperature Measuring Device

F2-H Manual



Application Field

F2-H is suitable for office areas, hotel, office buildings, schools, shops, communities, public services and management projects.

Features

- Dynamic detection, solve the deception of photos on various carriers
- Infrared mode at night, RGB dual fill light
- Support external access control card reader, QR code scanner, ID card reader
- Support RS232 serial port, Wiegand 26/34 output, support relay, exit switch, door magnetic output content
- Support local storage of 500,000 historical records
- Support 20,000 face library
- Support public network and local area network deployment



- Support HTTP interface connection;
- Support display configuration;
- Support identification distance configuration

Product Specification

	Face Recognit	ion Temperature Measure Machine	all-in-one	
Product model		F2-H		
	Main function	Face recognition temperature measurement		
Characteristics	Use environmen	Indoor , semi-outdoor		
	Color	Silver		
	Туре	RGB	Infrared	
	Resolution	2 million pixels	2 million pixels	
	Aperture	F2.8	F2.8	
	Focal length	3.18mm	3.18mm	
	Software Dynamic	automatic	automatic	
	Vertical wide angle	84°	84°	
	Horizontal wide angle	54°	54°	
Camera	Infrared supplement light	Support		
	White			
	supplement light	Support		
	Android	Android7.1		
Core	CPU	Quad-core, 1.8GHz		
parameters	parameters storage capacity		RAM 2G ROM 8G	
	Monitor	8 inches, full viewing angle, 170 ° IPS LCD screen, resolution 800 * 1280		
	Touch screen	sup	port	
	Face sensing	•	•	
	module	support		
Human-	Face			
comput er	temperature			
interaction	measurement	support, Serial / I2C interface		
	module			
	Card reader	Support, Optional		
Communication	Ethernet	10/100	Ethernet	



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method	WIFI	Comply with IEEE802.11b / g / n standard (2.4G)	
Late con co	Face	Support	
Identification Method	IC card	Support, optional	
In a set V and a set	RJ45 interface	Support 10/100 Mbps	
Input \ output interface	Power supply	50/0/01	
interrace	interface	DC12V-2A	
Power	Adapter	DC12V-2A	
	Operating	-20℃~60℃	
	temperature	-20 C ~ 00 C	
	Working	20%~90% (non-condensing)	
Environmental	humidity	2070 9070 (Hori-condensing)	
requirements	Static protection		
	level	IEC61000-4-2, LEVEL3	
		External Interface Definition	
Туре	Interface	Explanatio n	
USB	USB 2.0	Support	
Ethernet port	RJ45	10/100 Ethernet	
1		Relay normal off/Common/normal on.Usually,door lock	
	NC	supply is positively connected to the COM port,and then	
D .	COM	according to the door lock type,relay power negatively	
Rela y	NO	connected NO port or NC	
,	110	port. Note: Maximum load of relay contact is 2A	
	IN	·	
Gate sensor	GND	Check door open/close status, input	
Exit	PUSH1		
button	GND	Press the button,door opening control signal,input	
Serial	RX	RS232	
Seliai	TX	NOZOZ	
Output power	5V	Support device external output 5V	
Calpat power	GND WG D1	Support dovido external output ov	
	WG_D1 WG D0		
Wiegand	WG_D0 GND	Wiegand output interface, support 26bit / 34bit protocol	
	GND		
Input power	12V+	Power input: 12V DC	
	1 4 V		
	Operating		
	temperatur	0℃ ~ +55℃	
	е		
Temperature			
measureme	Storage		
nt module	temperatur	-20℃ ~ +65℃	
	e		



1444		
	Power consumption	< 0.3w
	Pixel	32*32 Real-time temperature output
	Measurement	I + 0.5℃
	accuracy	
Basic Parameters	Measuring distance	0.3 ~ 1.0m
	WIFI	2.4G 802.11b/g/n
	Bluetooth	BluetooH4.0

Attention:

The following only describes the serial temperature measurement module

No description about I² C interface temperature measurement module, the shape is rectangular forbidden to use under strong light and direct sunlight;

Suggest indoor use, or semi-outdoor environment, outdoor temperature measurement is affected by the external environment;



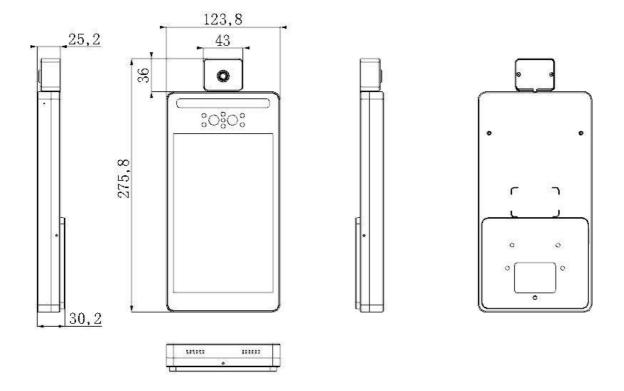
Wall Mounting Type Product Picture







Wall-mounted version shape and size (275.8mm*123.8mm*30.2mm)





Indication of Appearance and Wiring Instructions

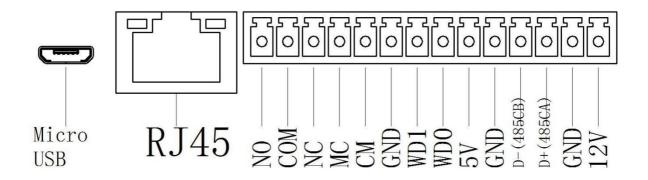
The front part of the access control machine





Access control wall-mounted version-wiring instructions



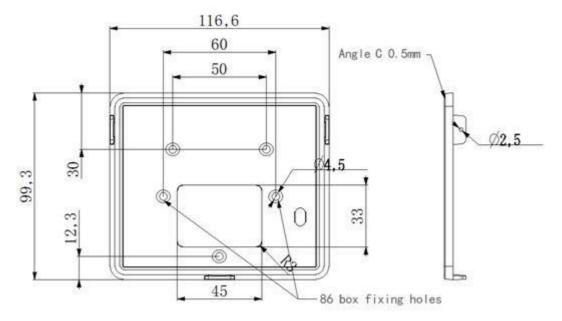




Installation Steps

Installation of access control wall-mounted version

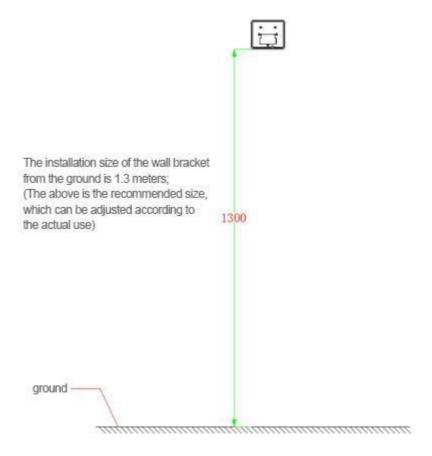
Description of the size of the wall bracket;



Note: The product packaging comes with 86 boxes of machine screws and plastic expansion screws;

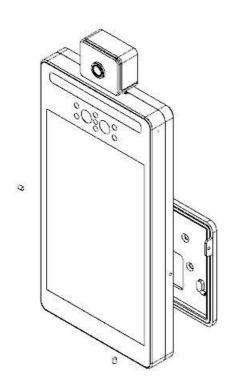


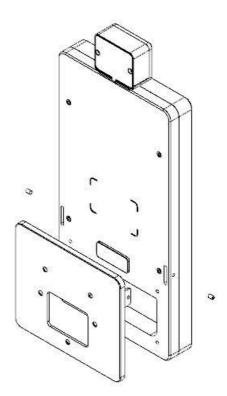
Description of the installation location of the wall bracket;





Fixing method of hanging bracket and product terminal





Note: Use three set screws M3 * 5 to fix the terminal. There are matching screws in the package.

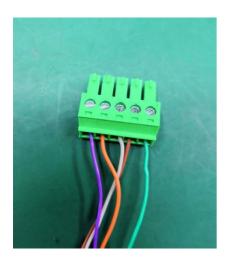


Wiring operation instructions (take the turnstile wiring as an example, other wiring can take this as reference)

(1) Strip the signal wire (use a wire stripper and other tools) to expose the metal wire, about 5mm, if possible, add solder, as shown in the figure;



(2) Loosen the screws at each corresponding interface, insert the metal wire end into the hole, tighten the screws to fix, and do a tensile test after locking to ensure stability, as shown in the figure;



Packing and usage instruction

Materials and tools list

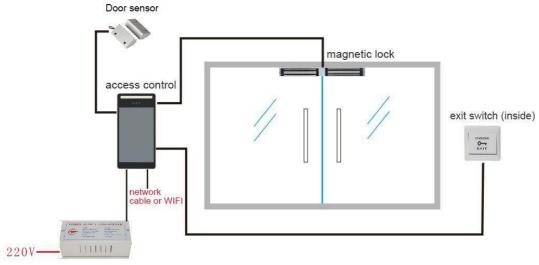
Serial	Material / tool name	Quantity	Explanation	
number				
1	Host and its own accessories	1	Comes with accessories including: 12V adapter, wall bracket, expansion tube, self-tapping screws, allen wrench, allen screws, etc.	
2	Exit switch (optional)	1	Use when exit (no need for more if it already exists)	
3	Electromagnetic lock (optional)	1	Open the door after power off, and lock when power on (no need for more if it already exists)	



4	Magnetic lock power supply (optional)	1	Supply power to electromagnetic lock, and also can supply power to Uface host at the same time (If you already have it, you don't need more)
5	Network cable (optional)	Several	Used to arrange Ethernet and other wiring
6	Network cable pliers, network tester, diagonal pliers, electrical tape, wire buckle	Several	Used to arrange Ethernet and other wiring
7	Drilling tools	Several	Used for equipment installation and wiring

Magnetic Door Wiring

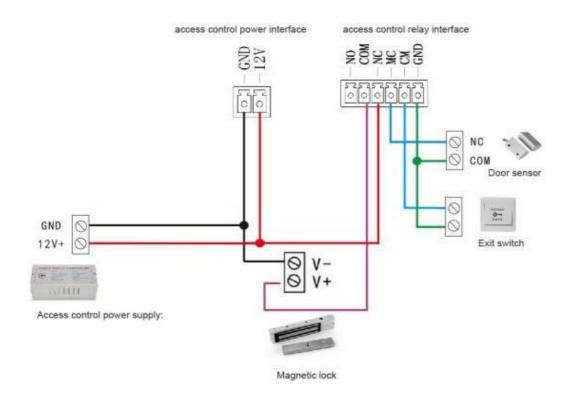
1. Schematic diagram of magnetic door system installation;



access control power supply

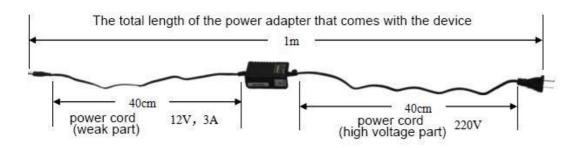


2. Schematic diagram of magnetic door system wiring:



Installation Notice:

- 1. During wiring, if the 12V power supply line of the host does not use the "special power supply extension line" and the distance is long, the cable equivalent resistance will be too high, then it is possible to occur: terminal insufficient voltage (\leq 11V), repeated restart of the host, and crash phenomenon.
- 2. The device has a built-in relay device. The maximum load voltage of the magnetic lock (or other access control unit) cannot exceed DC12V, and the maximum current cannot exceed 3A. If it exceeds, it will break the relay and cause the door to fail to open.
- 3. The device comes with a power adapter as shown in the figure, with a total length of 1 meter. Its weak current part is 40cm and the high voltage part is 40cm.





- The extension of the power cord (weak current part) should not exceed 3 meters, otherwise it will cause insufficient power supply to the host, and abnormal phenomena such as repeated restarts and crashes. If the power supply is far away from the device, the power cord (strong electric part) can be extended.
- If you use other adapters, such as 9V and 1A, insufficient voltage and low current will cause the device to restart repeatedly.
- The cable used should not be too thin (such as a thin network cable), it is recommended to connect multiple strands of the same cable in parallel or use thick copper cables to ensure that the voltage > 11V
- Note: If using a network cable, please use 4 strands of network cable as the positive pole and 4 strands as the negative pole.
- If it is not clear how to extend, please contact the supplier to replace the "dedicated power extension cable".