



Shenzhen Yecon Technology TR08D Face Recognition Intelligent Terminal User Guide

[Home](#) » [Shenzhen Yecon Technology](#) » Shenzhen Yecon Technology TR08D Face Recognition Intelligent Terminal User Guide 

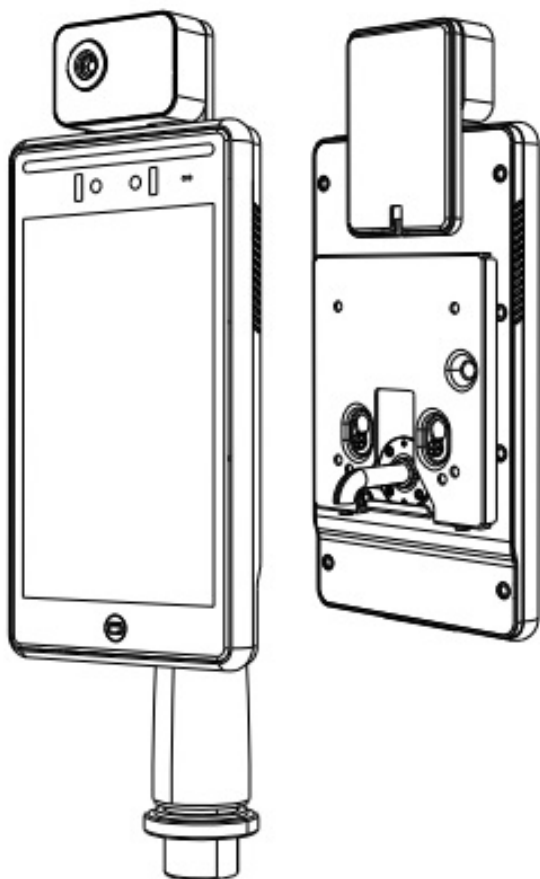
Shenzhen Yecon Technology TR08D Face Recognition Intelligent Terminal User Guide



Contents

- [1 Product Description](#)
- [2 Features](#)
- [3 Specification And Performance](#)
- [4 Product List](#)
- [5 Structure Diagram](#)
- [6 Wiring Description](#)
- [7 Installation instruction](#)
- [8 Gate Installation](#)
- [9 Declaration of toxic and harmful substance](#)
- [10 Product Warranty Card](#)
- [11 FCC warning statements](#)
- [12 Documents / Resources](#)
- [13 Related Posts](#)

Product Description



(Reference legend)

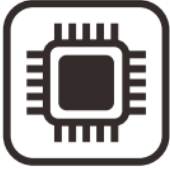
This product is aimed at the demand of large capacity, high performance, wide applicability and customization in the application process of face recognition. It introduces a face recognition intelligent temperature measurement hardware, which can be combined with face recognition algorithm to provide users with a safe use environment

The product is based on Rockchip RK3399, dual core cortex-a72 (2.0 GHz) and quad core cortex-a53 (1.4 GHz) processor, 200W RGB + IR binocular camera, supporting WiFi + 10m / 100M adaptive Internet and rich peripheral security interfaces to meet user access control management and control requirements.

The product is suitable for office areas, hotels, passage gates, office buildings, schools, shopping malls, shops, communities, public services and management, etc. where face recognition and temperature measurement are required.

Features

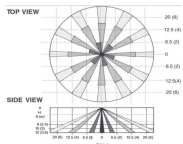
- High performance



- Binocular camera



- Distance sensing



- Tricolor lamp



- Card reader



- Security interface



- Multiple International



- installation Protection



NO	Features	Content
1	Performed	Combined with face recognition algorithm and infrared sensor temperature measurement, it supports 10,000-level human face database
2	Algorithm	Support the testing of domestic top AI algorithm manufacturers.
3	Speed	Combined with face recognition “algorithm, face’ recognition” and” body” te mperature detection can be completed quickly.
4	Anti – Counterfeiting	Binocular face recognition, support infrared live detection.
5	Interactive	Using tOF human detection,8-inch ultra-clear touch screen + sound + LED li ght interactive prompt
6	Surrounding	Super environmental adaptability, under low light and strong backlight, all ha ve good performance.
7	Stable	Android or Linux system, server-level stability.
8	Open	Provide development kit, Satisfy SI/ISV the Manufacturer’s secondary devel opment needs.

Specification And Performance

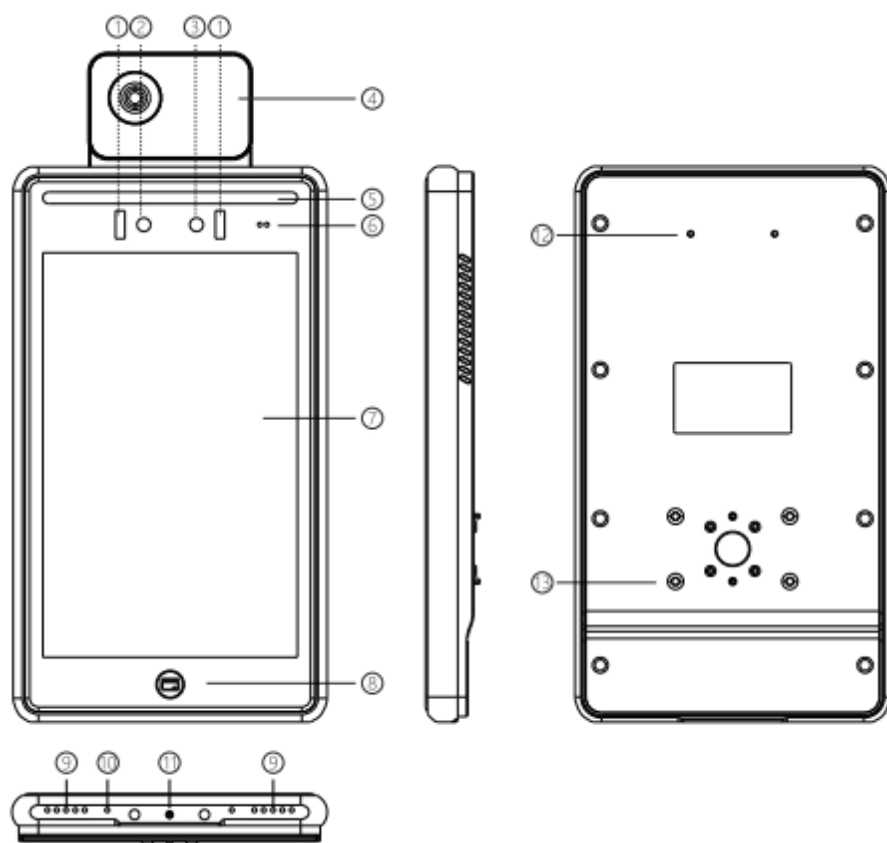
Classification	Project	Parameters		
	Equipment	Aluminum alloy	Operating syste m	Andriod7.1
	Dimension	239mm 134mm 20.6mm		
	Processor	PK3399 dual Cortex A72+ four cortex-A53 size core CPU structure		
	Ram	2GB	ROM	16GB
	Display	8” Resolution 800 1280	Touch Screen	8 Inch Touch Screen

Device	Interface	Ethernet	100Mbps	Serial	TTL 3.3V
		Wifi	Support	Contact	*2
		Data interface	USB 2.1*1	RS485	RS485*1
		MIC	*1	Loudspeaker	1 W*2
		DC-IN	12/1.8A	Button	Reset
		Access control interface	Support relay wig and RD485, NFC and face Recognition access control		
	Working Environment	Operating temperature	-10°C -+ 60°C	Storage temperature	– 20°C-+70°C
		Working Humanity	20%-95% Non-Condensing	Machine Strength	Max <18W
		ESD	±4KV Contact ± Kilovolt Air	International Protection	IP 67
	Features	Anti-disassembly	Support	Human Detection	Infrared induction
		Fill-in Light	LED fill light strip (White, green, red,)		
		Camera	RGB Camera	2 Mega-pixels wide dynamic	
			Infrared camera	2 mega-pixel	
IC Card	NFC: ISO14443B/15693/18092				
Algorithm	Living body detection, Face recognition				
Temperature measurement	Infrared thermal imaging temperature measurement				

Product List

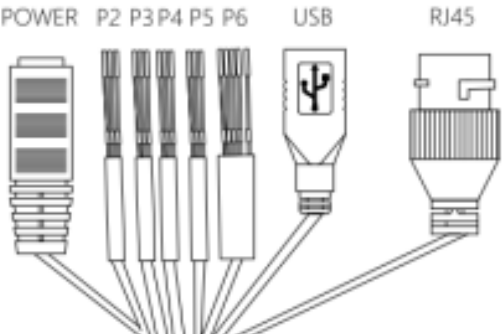
No	Content	Quantity
1	Host	*1
2	Gate column (optional)	*1
3	Wall pendant (optional)	*1
4	Power Adapter	*1
5	Install screw Package	*1
6	Instruction manual (qualification certificate, product warranty card	*1

Structure Diagram

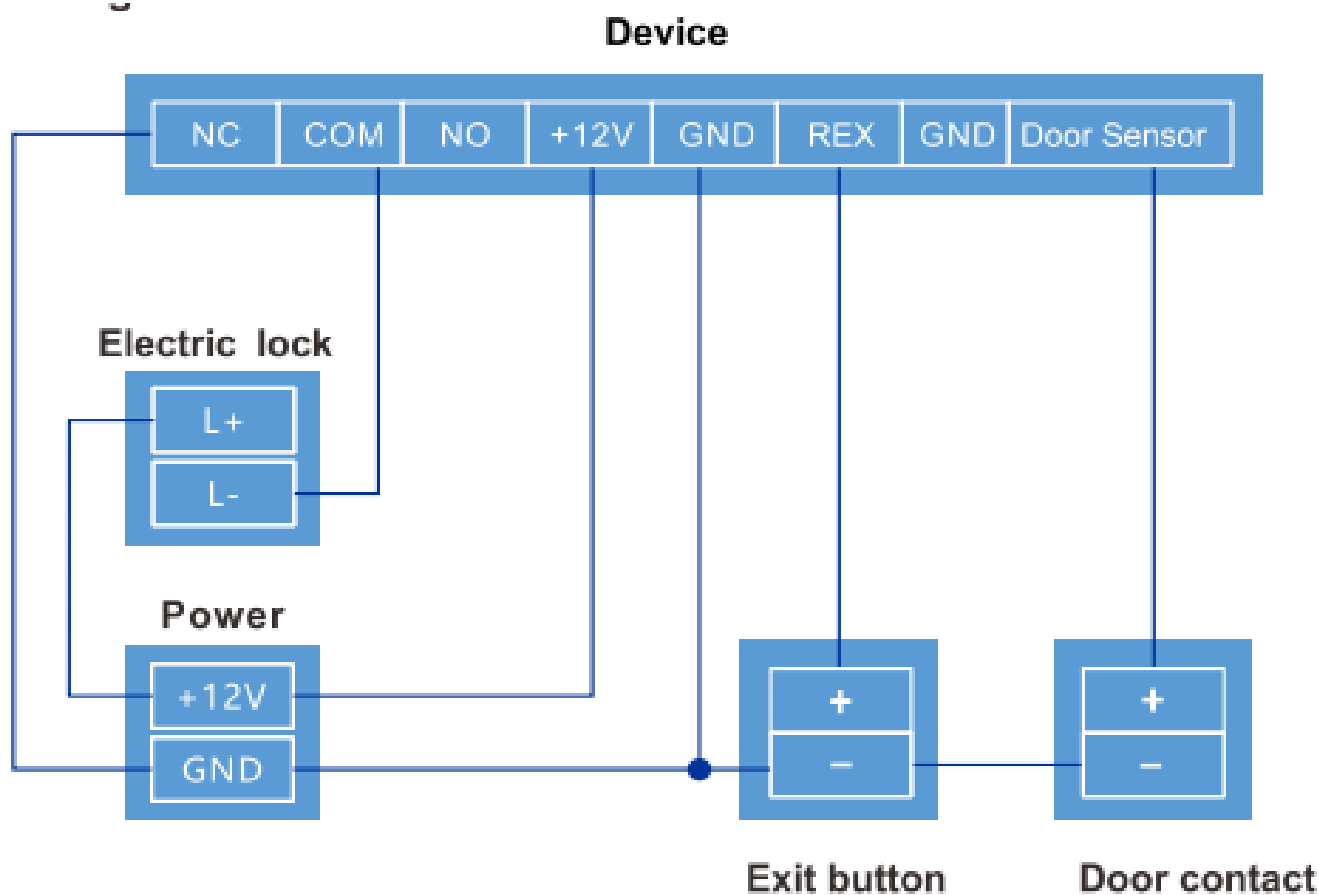


No.	Explanation
①	Infrared fill light
②	RGB camera
③	Infrared camera
④	Infrared temperature measurement module
⑤	Fill light (white : fill light, green : pass, red : fail)
⑥	Infrared sensor module
⑦	8 Inch Touch Screen
⑧	Card reading area
⑨	Loudspeaker
⑩	Microphone
⑪	Reset button
⑫	Sunshade fixing hole
⑬	Fixing screw hole of wall hanging and gate machine

Wiring Description

Connect positive	Interface Description
	POWER:12V DC Input
	P2 Relay Output: NC、NO、COM
	P3 Wiegand: D0、D1、GND
	P4 RS 485: 485A、485B、GND
	P5 Uart: TXD、RXD、GND
	P6 Sensor Input: RECOVERY、Door Sensor、GPIO、REX、GND
	USB: USB 2.0
	RJ 45: 10/100Mbps

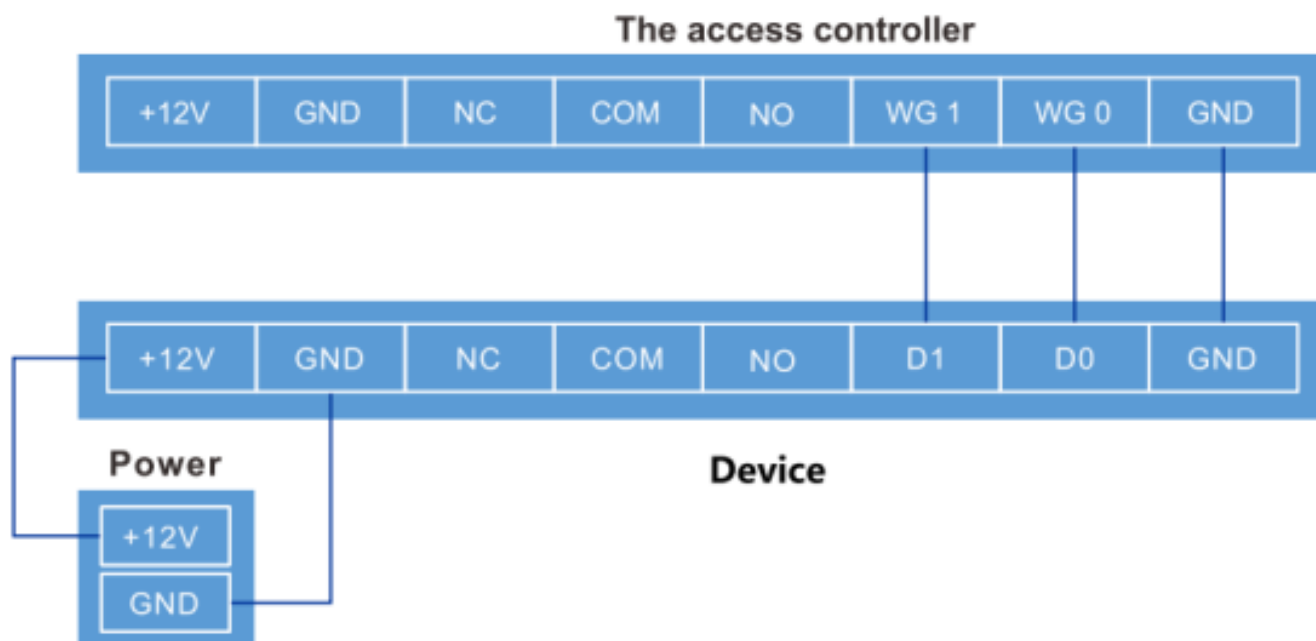
Electric lock wiring



Note

As an independent access control machine, this device can unlock the contact point and exit button to ensure that the power of 12V power supply can meet the requirements of equipment and electronic control lock.

Access controller Connection



Note:

The combination of No and Com is normally open, while that of NC and com is normally closed. The main equipment needs to use our power supply for independent power supply.

Installation instruction

Environment requirement



In the installation and use of this product, please strictly follow all local electrical regulations. If the equipment is not working properly, please do not disassemble and repair it by yourself, otherwise it will affect the equipment warranty. During installation and use, extreme or extreme environments such as extreme high temperature (or low temperature), high humidity, high backlight, vibration, radiation, and chemical corrosion must be avoided,



+ Lighting conditions: We recommend installation in indoor or semi-outdoor environment, ensuring a well environment, avoiding direct sunlight or low light affect the recognition speed, to avoid facing the glass doors or glass walls.



+ Network: It is recommended to install the network open environment, to avoid the bad effects of network identification speed and accuracy.



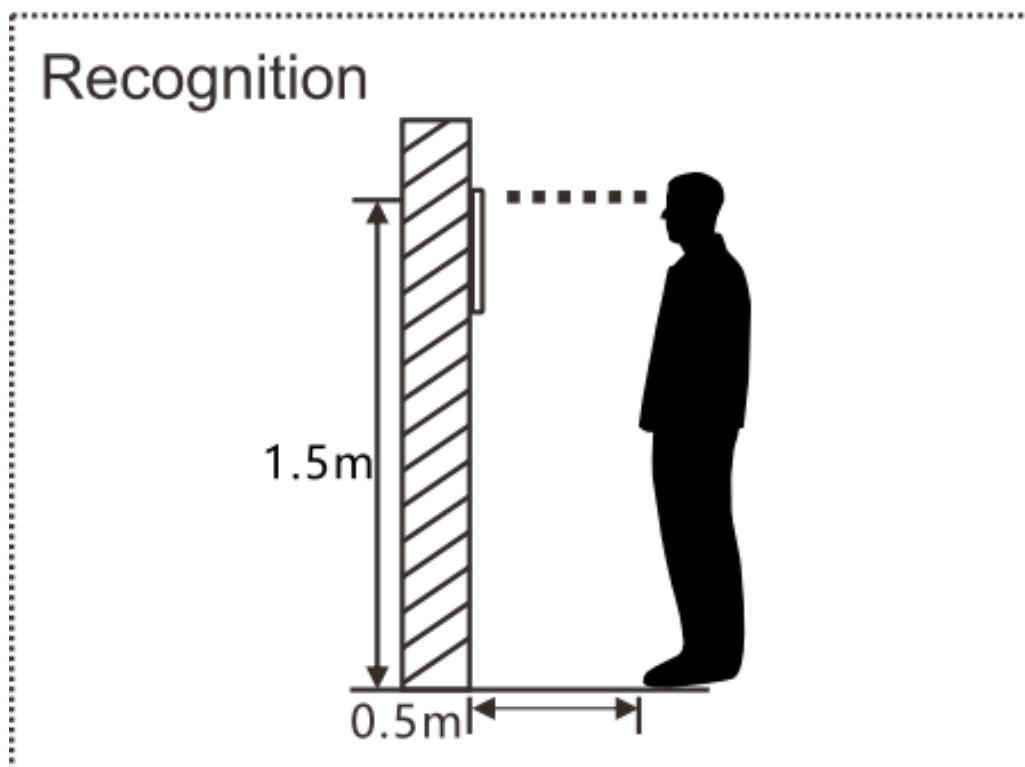
Precautions

Before opening the host device, the screen protector should be tom apart to avoid affecting the accuracy of the camera and infrared recognition.



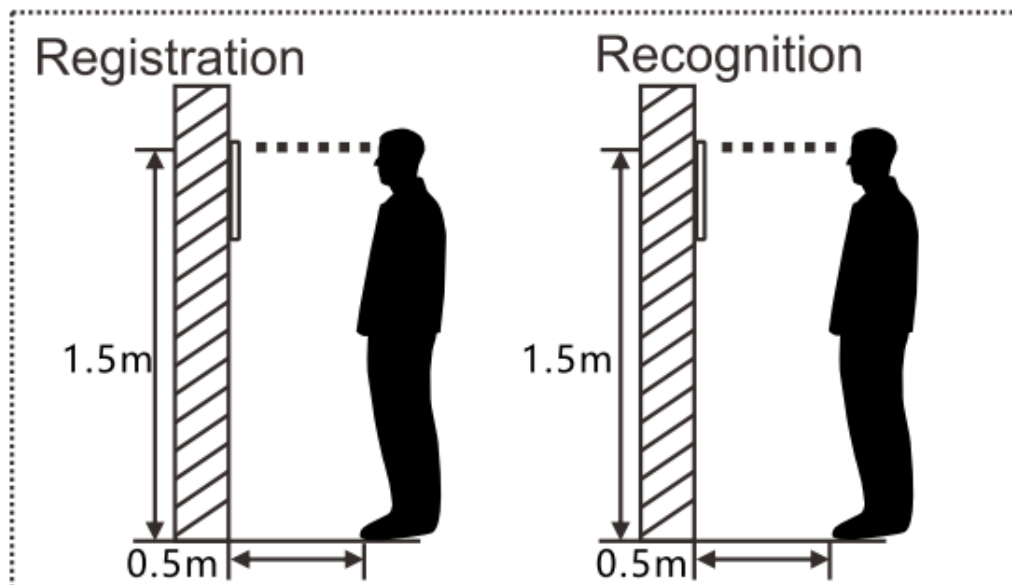
Location

The recommended installation height of the device is 150cm (camera height).



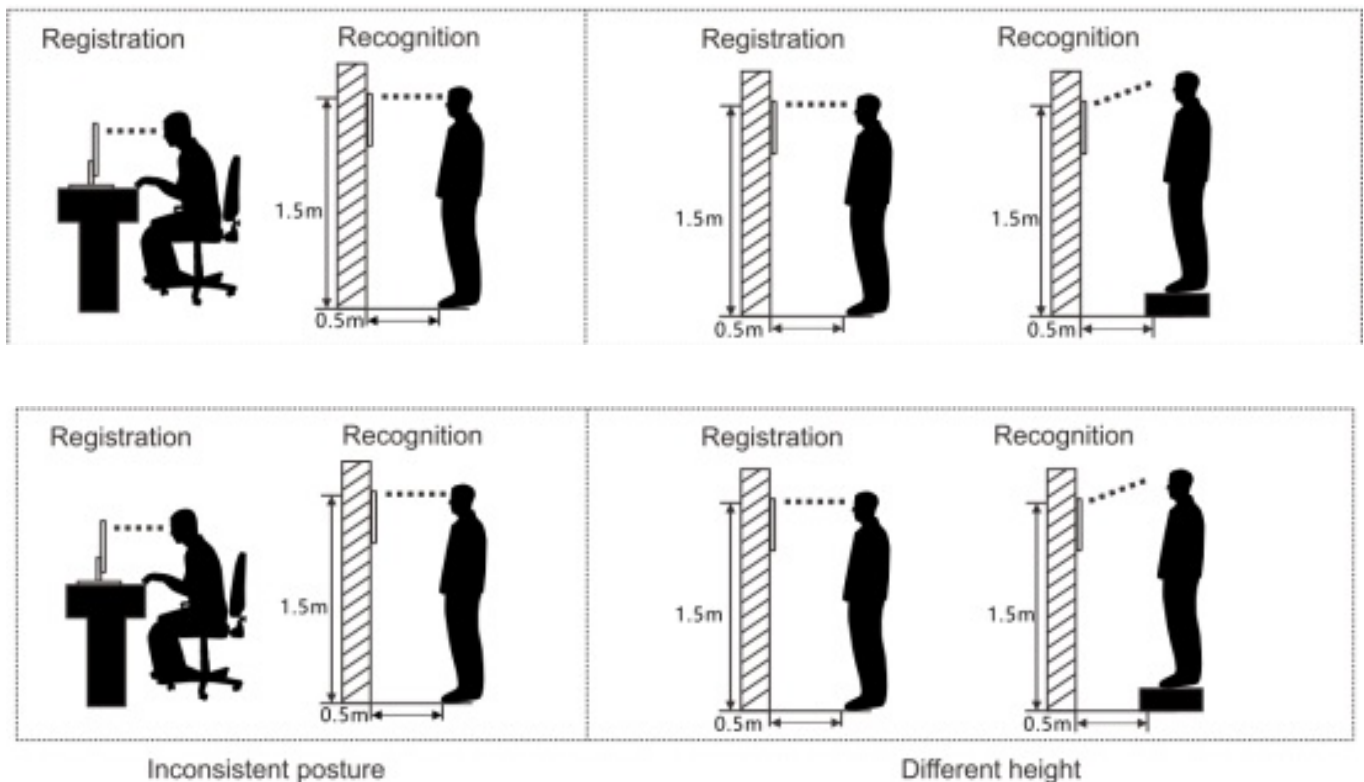
The recommended installation height (height of cameras) is 1.5m which can cover human height of 1.55m – 1.85m when the distance between the person and the panel is 0.5m. The best recognition distance is 50cm to 80cm from the device, as shown in the below image best recognition distance is 50cm to 80cm from the device, as shown in the below image. It can be adjusted according to the effect of face image acquired by the device. When the face image is large, it can move backward properly; when the face image is small. can move forward properly.

Recommended location

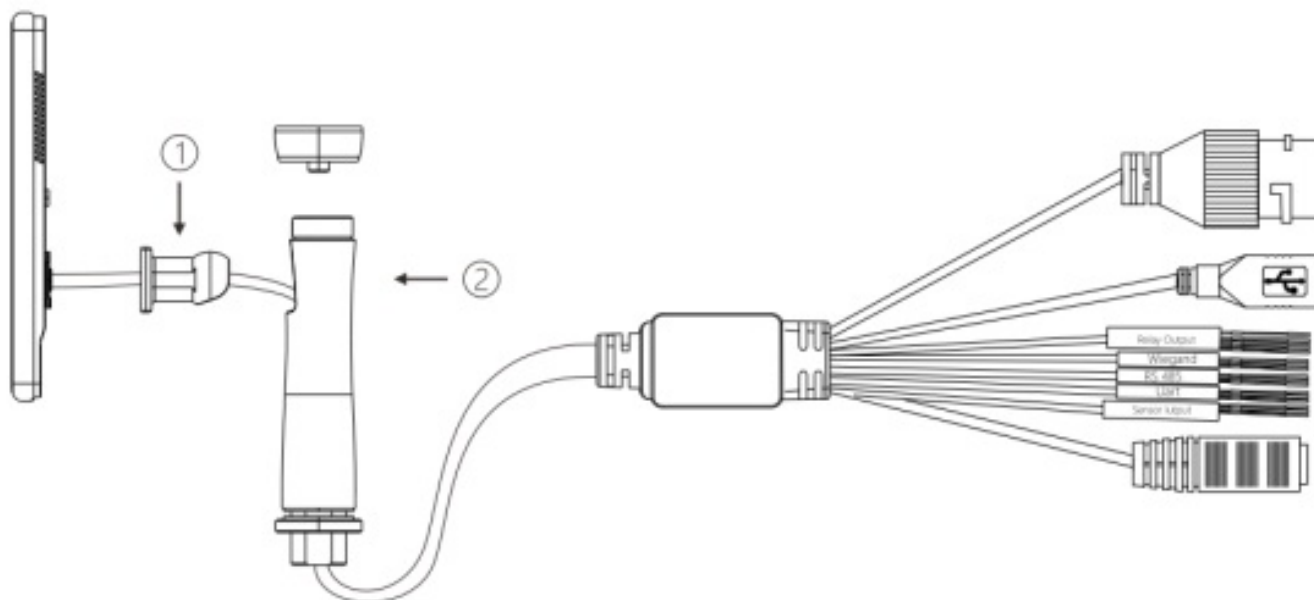


The recommended installation height (height of cameras) is 1.5m which can cover human height of 1.55m – 1.85m when the distance between the person and the panel is 0.5m. The best recognition distance is 50cm to 80cm from the device, as shown in the below image best recognition distance is 50cm to 80cm from the device, as shown in the below image. It can be adjusted according to the effect of face image acquired by the device. When the face image is large, it can move backward properly; when the face image is small, it can move forward properly.

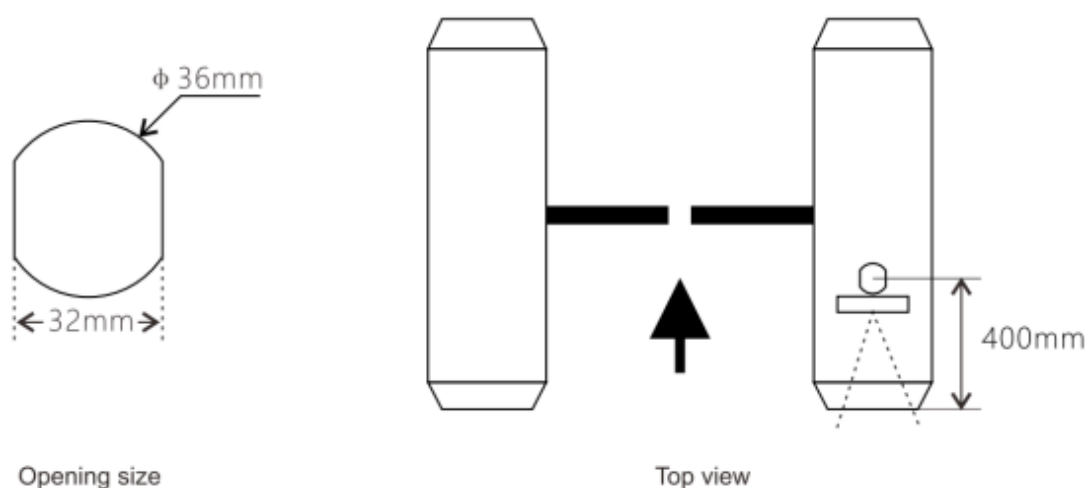
Wrong Usage



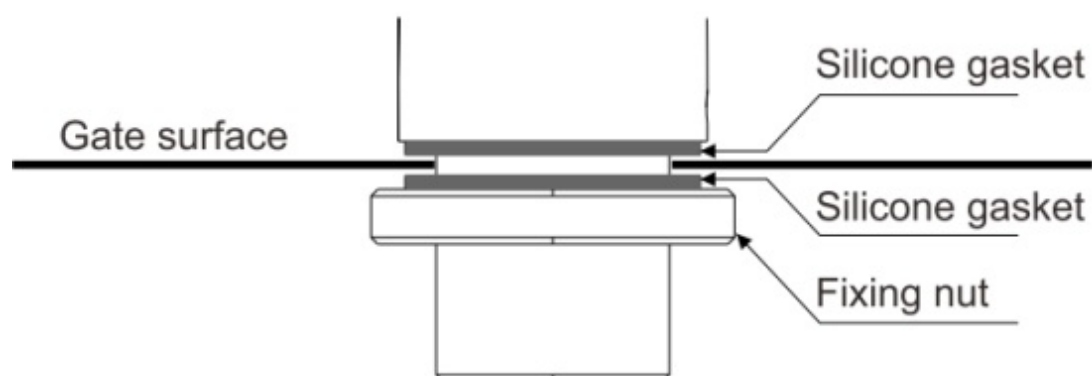
Gate Installation



Threading: Thread the bundle wires on the device through the column connector 1 and column 2 in turn, and fix the connector with the host with screws. The threading sequence is: RJ45 female base, USB female head, power cord, and terminal block.



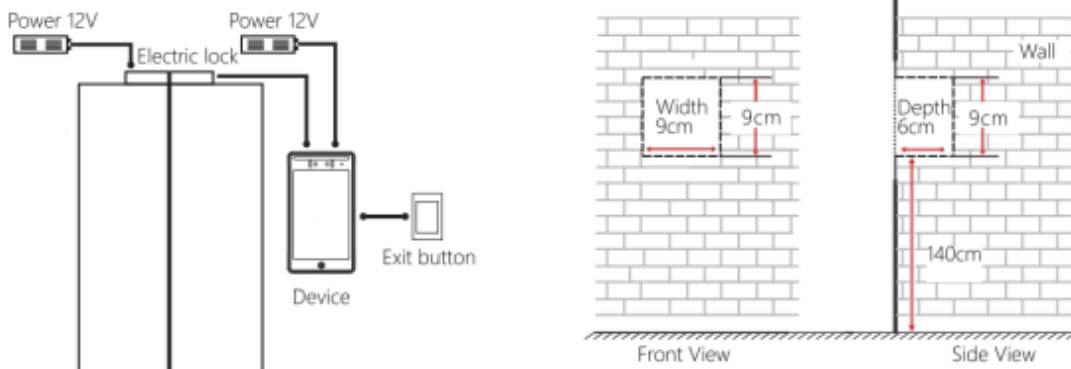
Fixation: Install the face device on the hole of the gate, rotate it to a proper angle, and tighten the fixing nut.



Location of silicone gasket

Installation Position

On the wall about 140cm above the ground, open a hole slot about 9 * 9cm in length and width and 6cm in depth, and select 86 cassette with a depth of 5cm to install and fix.

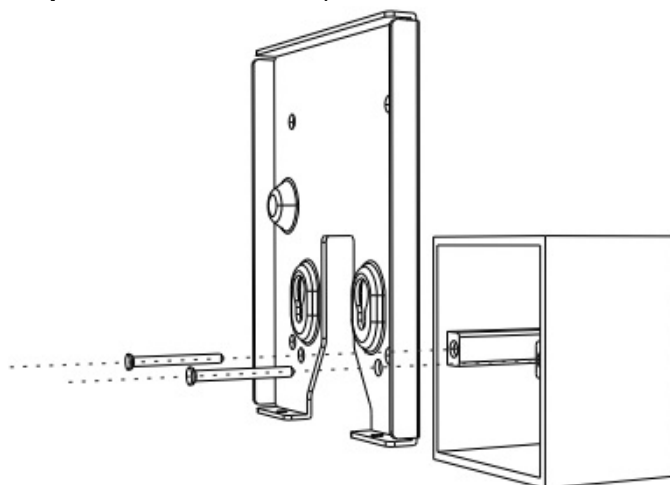


3 sets of wires need to be embedded in advance at the host equipment (reserved wire length is 10cm):

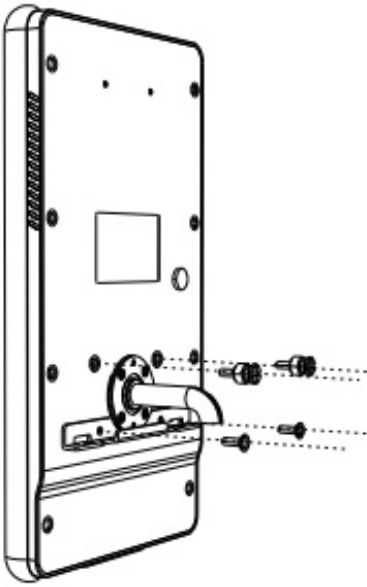
- 12V power cable RVV2 x 1.0 standard and above, one end is at the host device, and the other end is pulled to the original access control dedicated power supply or the 220V power supply 3 hole socket on the top of the sliding door, When installing connect to the 12V end of the factory supplied 12V1.8A power adapter. The 220V power cable of the adapter is directly plugged into the 220V power supply 3-hole socket.
- Door opening control line RVV2 x 0.5 standard and above, one end is at the host device, and the other end is pulled to the original access control dedicated power supply or the top controller of the sliding door, and connected to their door opening signal interface during installation.
- Cat5e network cable 8 x 0.5 oxygen-free copper standard and above, one end is at the host device, and the other end is pulled to the weak motor room switch, and connected to the Internet during installation. If it is difficult to increase the wired network, you can consider using wireless when the wireless network is stable.

Installation Steps

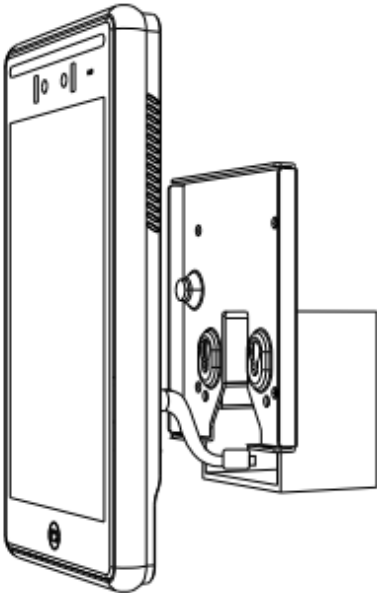
Step 1: Fix 1. Fix the wall plate on the 86 cassette.



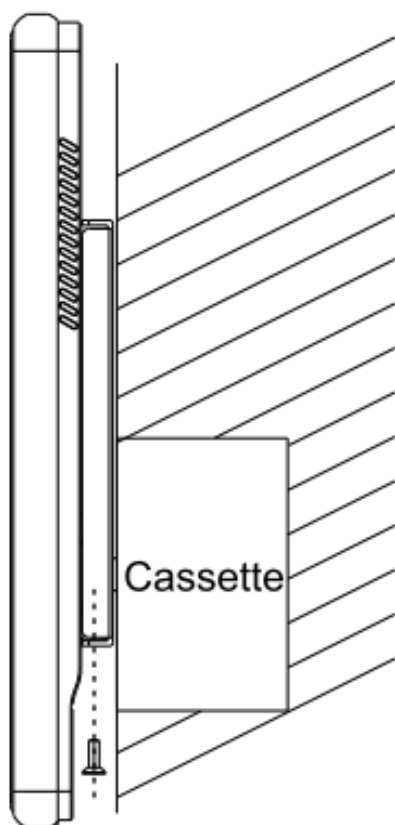
Step 2: Fix 2. Fix the wall bracket and wall screw on the equipment.



Step 3: Wiring. Refer to the “wiring instructions”, connect.




Step 4: Lock. Screw down the host and wall mount with the corresponding port and adjust the position of the screws from the bottom to finish the installation. wiring port until the equipment can be buckled into th wall mounted accessories.



Declaration of toxic and harmful substance

Part Name	Harmful substance or elements					
	(Pb)	(Hg)	(Cd)	(Cr(Vi))	(PBB)	(PBDE)
Shell	○	○	○	○	○	○
Circuit	○	○	○	○	○	○
Power Shell	○	○	○	○	○	○

This table is compiled according SJ/11364

○	Indicates that the content of the harmful substance in the part is under the limit specified in GB/T26572
x	Indicates that the content of the hazardous substance in the component exceeds the limit specified in GB/T26572
	This marking period is 10 years, Under normal use conditions, hazardous Substances in electronic and electrical products will not leak or mutate, and will not cause serious environmental pollution or cause serious damage to personal and property safety. This product meets RoHS environmental requirements.

Product Warranty Card

Thank you for purchasing our products. | guarantee the interests of our customers. If the products

of our company fail due to quality problems, they can contact the local dealers with the invoice and warranty card.

Warranty notice:

1. Within one year from the date of purchase, in case of failure under normal use, the company will provide free warranty, parts replacement and other services according to the fault conditions.
2. The warranty card and purchase invoice are the certificates for our company to provide after- sales service to customers. This card is valid after the following forms are filled in in detail and stamped with the official seal of the dealer.
3. Under one of the following circumstances, free warranty service is not implemented, and maintenance is required at a charge;
 1. Beyond the validity of the warranty.
 2. Damage caused by improper use, maintenance or storage not in accordance with the requirements. of the product manual.
 3. Failure and damage caused by dismantling, repairing and refitting products without permission of our company.
 4. Mechanical failure or damage caused by force majeure.
 5. Wearing parts and random accessories.

					Purchase date: M D Y			
Commodity information	Trade name				Factory number			
	Product model				Date of manufacture			
Customer information	Unit name				Contacts			
	Address				Contact number			
Sales information	Name of seller				Contacts			
	Address				Contact number			
	Date of sale				Invoice number			
Maintenance records	Fault condition	Maintenance results	Customer signature	Signature of maintainer	Date			

This card is issued with the goods, one card for each machine. In order to ensure that you can fully enjoy the right of free warranty service provided by our company, please keep this card properly and do not make up for it if it is lost.

FCC warning statements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Warning Statement

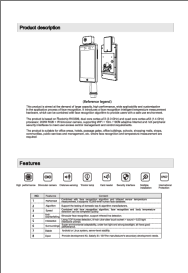
This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s license exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This device complies with ISED RF radiation exposure limits set forth for an uncontrolled environment.

This device must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

Documents / Resources

	<p>Shenzhen Yecon Technology TR08D Face Recognition Intelligent Terminal [pdf] User Guide</p> <p>TR08D, 2AYG9-TR08D, 2AYG9TR08D, TR08D Face Recognition Intelligent Terminal, Face Recognition Intelligent Terminal</p>
---	---

