Shenzhen Rakinda Technologies Co.,Ltd	File Number	Version Number	Level
	2021121301	V1.3	Confidential
File Nmae	**F6CS-T** Face Terminal Datasheet	Date	2021.12.13

F6CS-T(MTK8788)

Face Terminal Datasheet

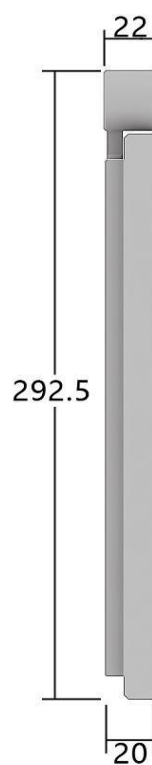## (Temp Measuring+QR Reader+IC Card Reader as option)

Three Hot Designs

F6CS-H

F6CS-TH

F6CS-FH

64.5

32.5

260

124

22

292.5

20

欢迎使用人脸识别系统
Welcome to Face Recognition System

2021.12.15-13:40-周三

Content

一、Product specification

F6CS-T is a convenient and safe industrial-grade visual face recognition all-in-one machine. In response to the needs of large capacity, high performance, wide application, and customizability in the face recognition application process, a face recognition intelligent hardware was launched. Face dynamic recognition provides users with a safe environment.

F6CS-T is based on 200W RGB, 200W IR binocular camera, supports WIFI+10/100M networking and rich peripheral security interfaces, meets user access control needs, and can realize personnel authentication, personnel access management and attendance management.

1. Application scenarios

The **F6CS-T** is widely used in office buildings, office areas, hotels, schools, shopping malls, communities, public services, stations and scenic exhibition halls ,public services and management projects and other traffic scenarios that need to be used, helping to achieve intelligent security control.

NO.	Features	Contents
1	Performance	Combined with face recognition algorithm, support 10,000-level face database
2	Algorithms	Support the algorithms of top domestic AI manufacturers
3	Speed	Combined with face recognition algorithm, face recognition can be completed very quickly
4	Anti-counterfeiting	Binocular face recognition, support live detection
5	Interaction	Using live detection, 8-inch ultra-clear touch screen + voice interactive prompt
6	Environment	Super strong environmental adaptability, good performance in low light and strong backlight
7	Stablity	Android 11.0 system, long-term stable operation
8	Open	Provide SDK to meet the secondary development needs of S/ISV manufacturers
9	Epidemic prevention	Infrared temperature detection and screening

2. Device Parameters

F6CS-T Face Terminal			
Product Features	Main function	Access control, epidemic prevention, turnstile	
	Use environment	Indoor, outdoor **(IP66)**	
	Equipment shell	Aluminum alloy material, dark gun color & silver as options	
Camera	Type	RGB	IR
	Resolution	2 million pixels	2 million pixels
	Vertical wide angle	65°	65°
	Horizontal wide angle	40°	40°
	White fill light	Supported	
	Red fill light	Supported	
Core Parameter	Operating System	**Android 9**	
	CPU	**MT8788 Octa-core A73 2.0GHZ**	
	Storage	**2G+32G**	
Human-computer interaction	Display screen	8 inches, full viewing angle, 170°IPS LCD screen, resolution 800*1280	
	Touch screen	Supported	

	Temperature measurement module 【Option】	Test accuracy: 0.1℃
		Test accuracy: 0.1℃
		Temperature measurement distance: Recommended use distance 50cm
		Working temperature: 15℃~40℃
Communication method	RJ45	10/100Mbps Ethernet
	WIFI	Comply with IEEE802.11b/g/n standard (2.4G)
	Bluetooth	/
Identification method	Face	Supported
	IC card 【nonsupport】	/
	ID card 【nonsupport】	/
		/
Interface	Data interface	USB 2.0*2
	Relay	*1
	Serial Port	RS485*1
	Wiegand	26bit/34bit protocol
	Exit switch	*1【Expandable】
	Fire linkage	*1【Expandable】
	Button	Upgrade button

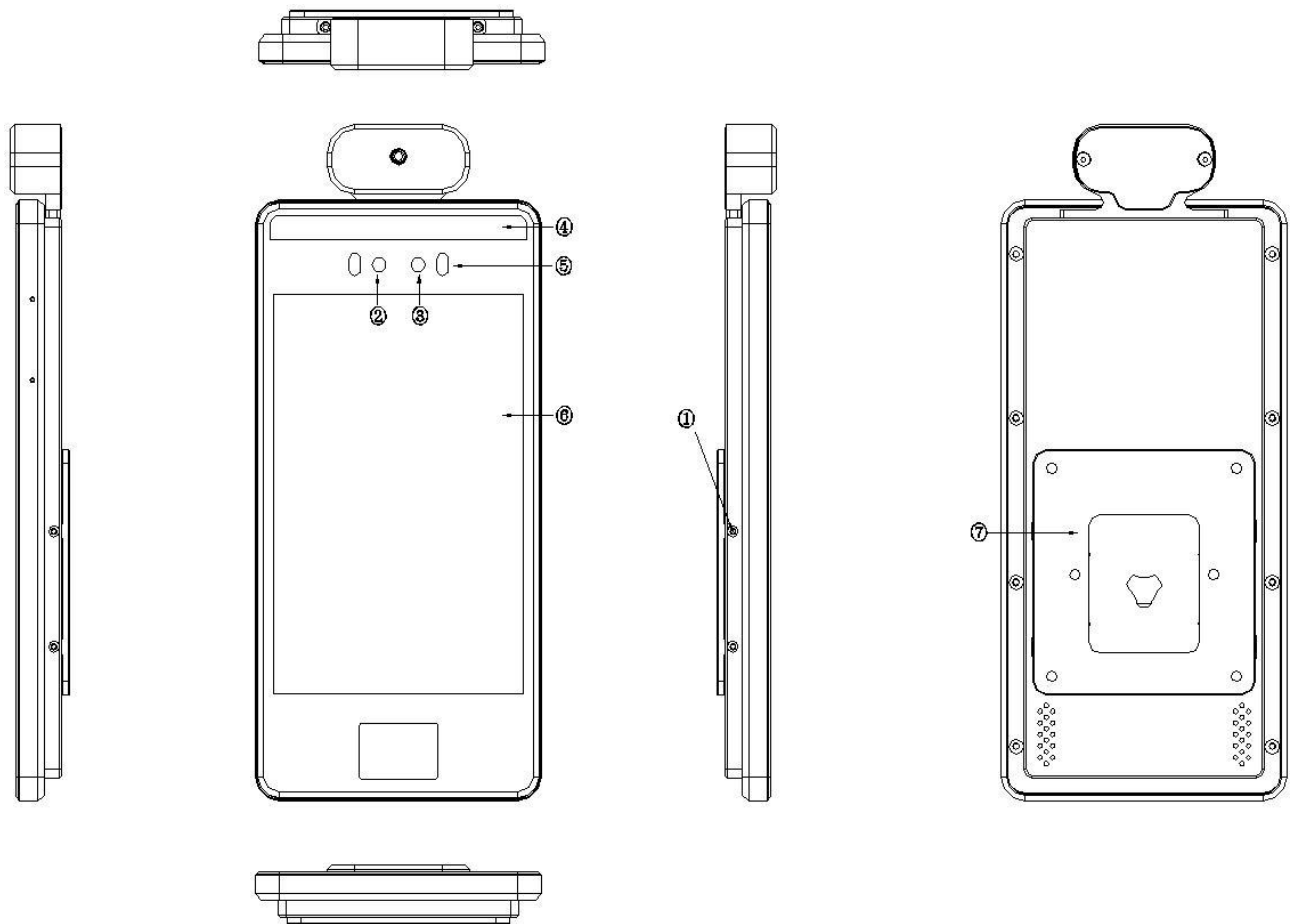| Power supply	Adapter	DC12V/2A power supply
Environmental requirements	Operating temperature	-20℃～60℃
	Working humidity	20% to 90% (under non-condensing water dripping state)
	Electrostatic ESD	IEC61000-4-2,LEVEL3
	Protection level	**IP66**
Installation Methods	3 methods for **wall mounted type/turnstile type/floor standing type**	

Remarks：

➢ **The equipment is forbidden to be used under strong light and not exposed to direct sunlight;**

➢ **Used indoors or in a semi-outdoor environment, the outdoor temperature measurement is affected by the external environment;**
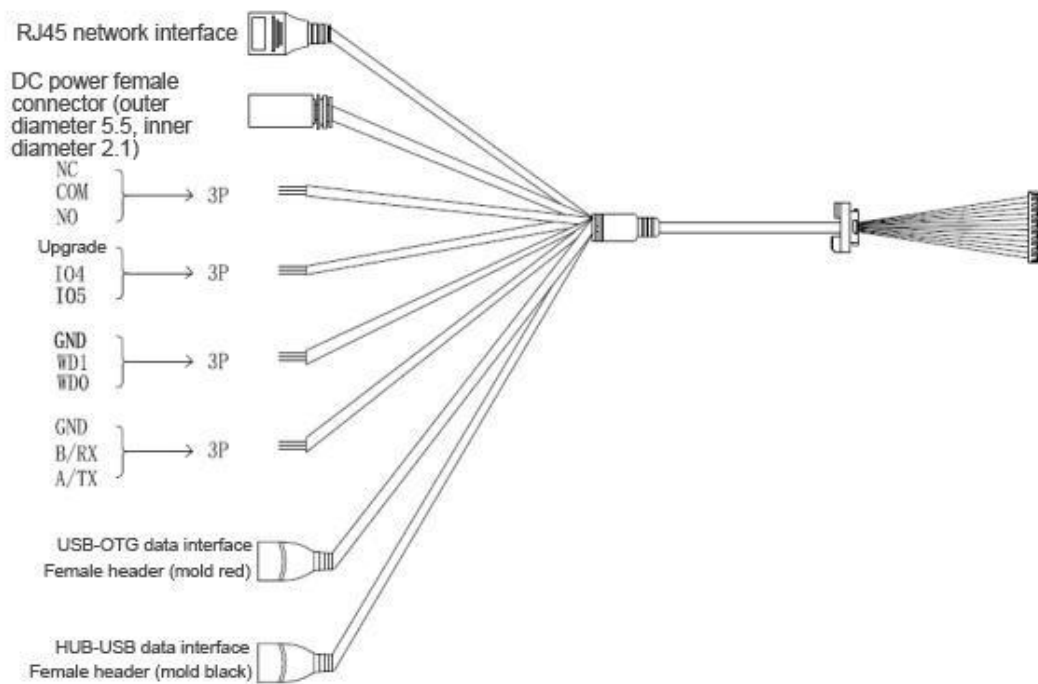
二、Product wiring

External interface hardware wiring instructions		
Type	Port	Instructions
Network port	RJ45	Supported10/100Mbps

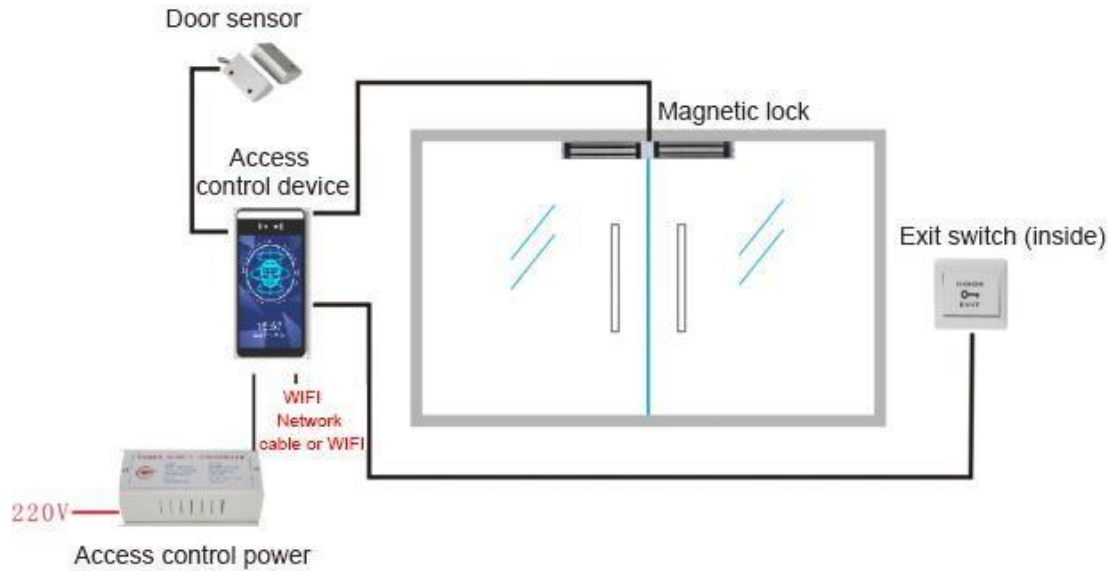| Relay	NC COM NO	Normally closed terminal/common terminal/normally open terminal of relay. Generally, the door lock power supply is positively connected to the COM terminal, and then according to the door lock type, the relay power supply is negatively connected to the NO port or the NC port. Note: The maximum relay contact load is 1A
Exit button	IO5 GND	Detect the button to open the door control signal, input
Alarm	IO4 GND	Detect the fire control linkage control signal, input
Reset	Upgrate GND	Supported manual reset and upgrade
Serial port	RS485 TX RS485 RX	Supported RS232,RS485
Wiegand	WG_D1 WG_D0 GND	Wiegand output interface, Supported26bit/34bit protocol
Input power	GND 12V+	Power input: 12V DC
USB	USB_HOST-4P	External reserved USB interface to connect peripherals
	USBA 2.0_OTG	Equipment upgrade, debugging, U disk

F6CS Structure

Integrated Harness Wiring Instructions

RJ45 network interface

DC power female connector (outer diameter 5.5, inner diameter 2.1)

NC
COM → 3P
NO

Upgrade
IO4 → 3P
IO5

GND
WD1 → 3P
WD0

GND
B/RX → 3P
A/TX

USB-OTG data interface
Female header (mold red)
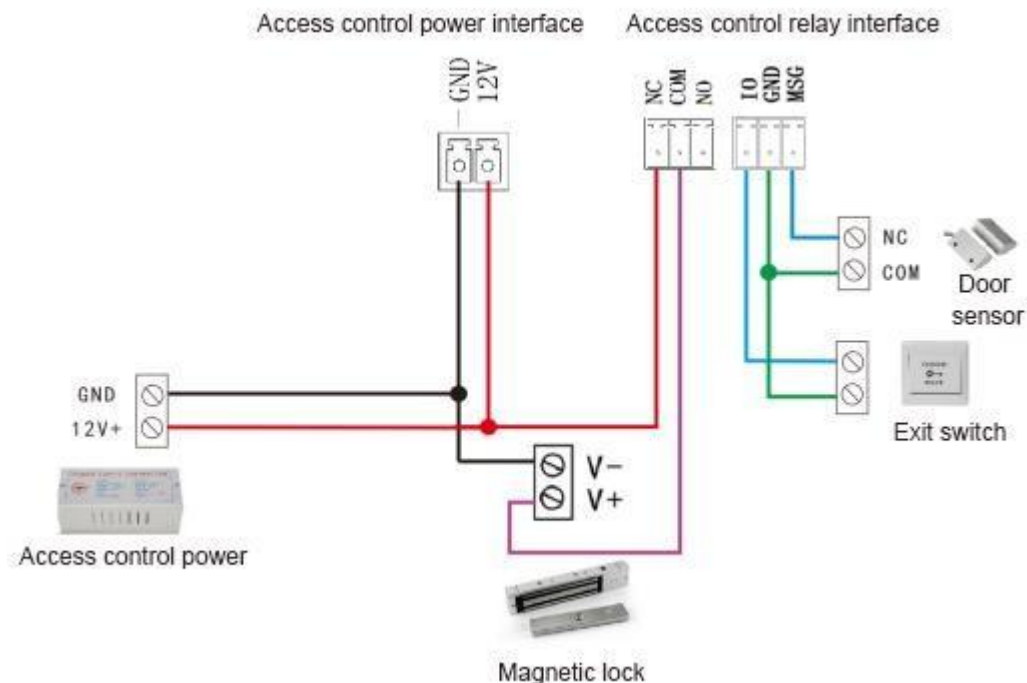
HUB-USB data interface
Female header (mold black)

6.2 On-site magnetic door installation reference instructions

6.2.1 Magnetic door system installation diagram

6.2.2 Magnetic door system wiring diagram

一、 **Installation Instructions**

⚠️ **Environmental requirements**

In the installation and use of F6CS, all electrical regulations of the country and region must be strictly observed. If the device does not work properly, please do not disassemble and repair it by yourself, otherwise it will affect the warranty of the device. During installation and use, avoid harsh or extreme environments such as extreme high temperature (or low temperature), high humidity, strong backlight, vibration, radiation, and chemical corrosion.

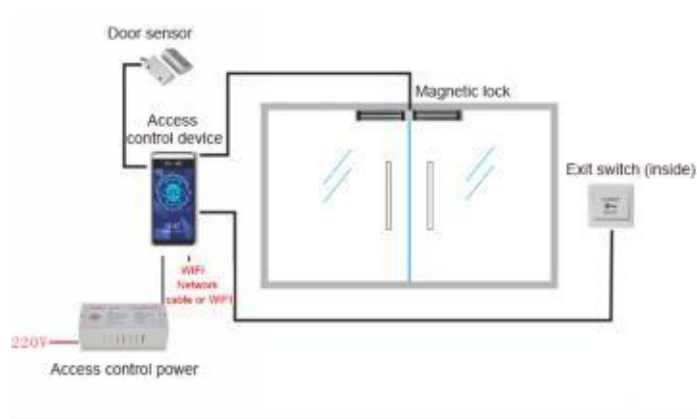|	
Sun	It is recommended to install it in an indoor or semi-open air environment to ensure a good light environment, avoid direct strong light or weak light affecting the recognition speed, and avoid facing the glass door or glass wall.
Network	It is recommended to install it in an environment with a smooth network to avoid the poor network affecting the recognition speed and accuracy.

⚠️ **Precautions** Before turning on the host device, the screen protector should be torn off to avoid affecting the camera and infrared recognition accuracy.

⚠️ **Installation location** The recommended installation height of the VTO is 150cm (camera height).
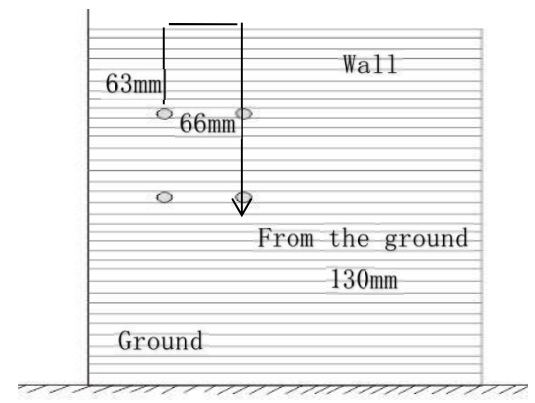
7.1 Wall Mount Installation Instructions

7.1.1 Installation location

On the wall about 130cm above the ground, start drilling the holes in the first row (using a 6mm drill bit, drilling diameter 6mm, drilling depth4cm, second hole translation 66mm). Move up 63mm and drill two holes forthe second row.
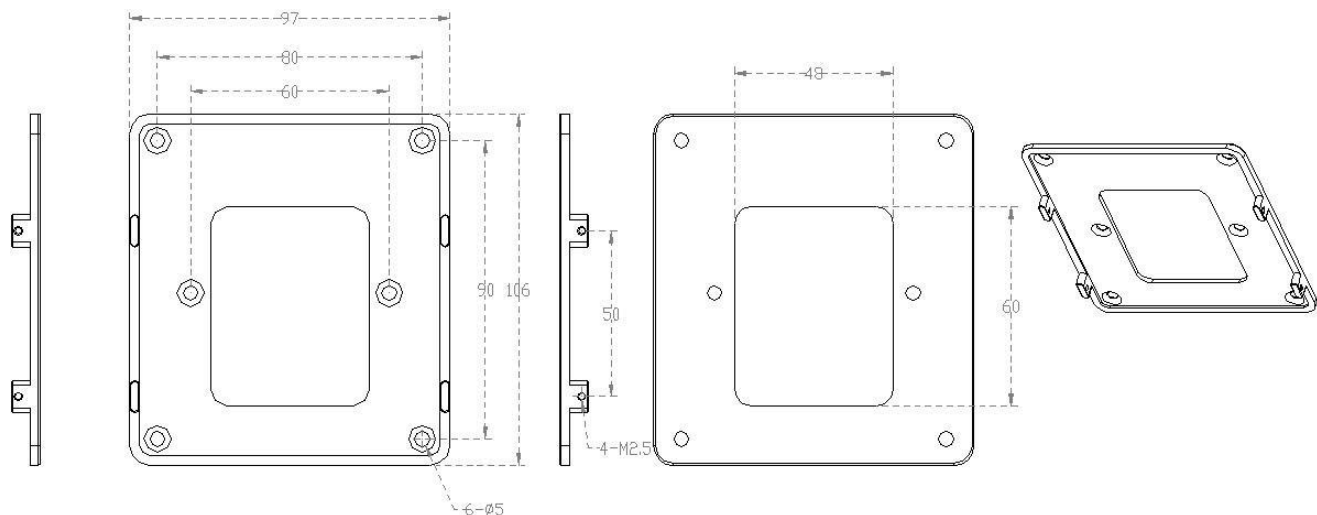

140CM

Front opening indication

3 groups of lines need to be embedded in advance at the host equipment (the reserved line length is 10cm)

(1) 12V power cord RVV2x1.0 standard and above, one end is at the host device, and the other end is pulled to the original special power supply for access control or the 2-hole socket of the 220V power supply on the top of the sliding door. When installing, connect the factory-built 12V2A power adapter 12V The 220V power cord of the adapter is directly inserted into the 2-pin socket of the 220V power supply.

(2) The door opening control line is RVV2x0.5 standard and above, one end is at the host device, the other end is pulled to the original access control dedicated power supply or the sliding door top controller, and the door

opening signal interface is connected to them during installation.

(3) Super Category 5 network cable 8x0.5 oxygen-free copper standard and above, one end is at the host equipment, and the other end is pulled to the switch in the weak current room to connect to the Internet during installation. In special cases, if it is difficult to increase the wired network, the wireless network at the door will also be connected. Very stable, can consider using wireless.
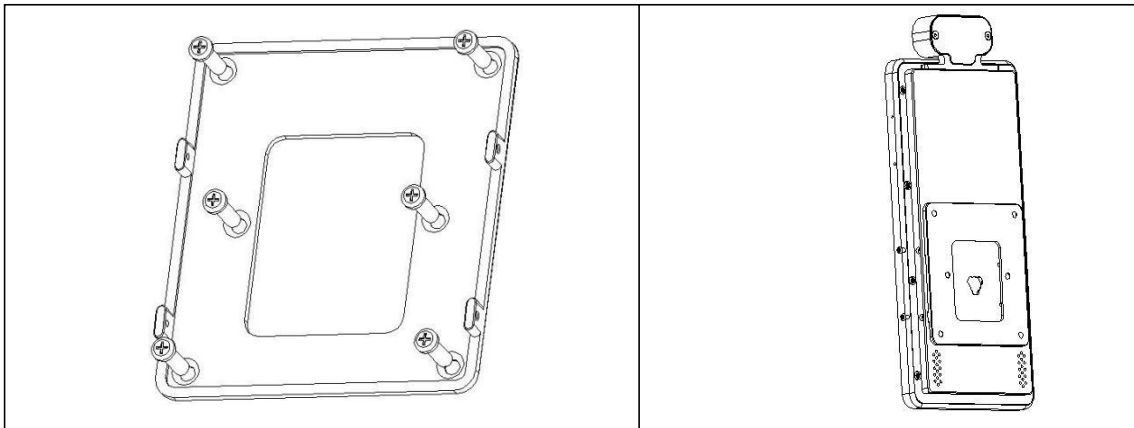
7.1.2 Dimensions and hole positions of the wall bracket

Fix the wall-mounted board and the host with a machine tooth cup head socket head cap screw M3*6 (package is equipped), be careful not to short-circuit the wire head.
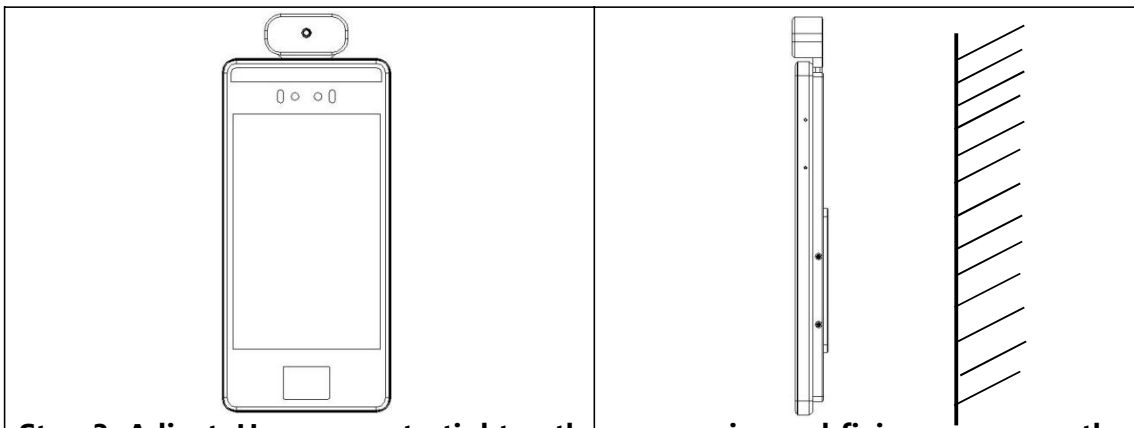
Remarks: If the installation environment is a glass plate or a smooth stone wall surface that is inconvenient to open holes, it needs to be fixed with adhesive backing, and the cable outlet will come out from the bottom;

7.1.3 Installation steps

Step 1: Fix. Fix the wall mount accessories to the wall with screws.

Step 2: Wiring. Refer to "Wiring Instructions" to connect the wires to the device

Step 3: Adjust. Use screws to tighten the accessories and fixing screws on the fixed device.

Step 4: Lock. Fasten the device with the main unit and the wall mount with screws.wire, adjust the wiring length until the device can be snapped into the wall mount.

Three、Device Installation

2-1 F6 series scan two-dimensional code installation equipment video

Four、Face machine setup operation guide

On the face recognition system interface, double-click the top middle position of the screen to pop up the user login window, enter the password (rakinda), and click OK, as shown in the following figure:

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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.ct.

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.