Tendcent TM8 Face Recognition and Temperature Terminal Instructions

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Tendcent

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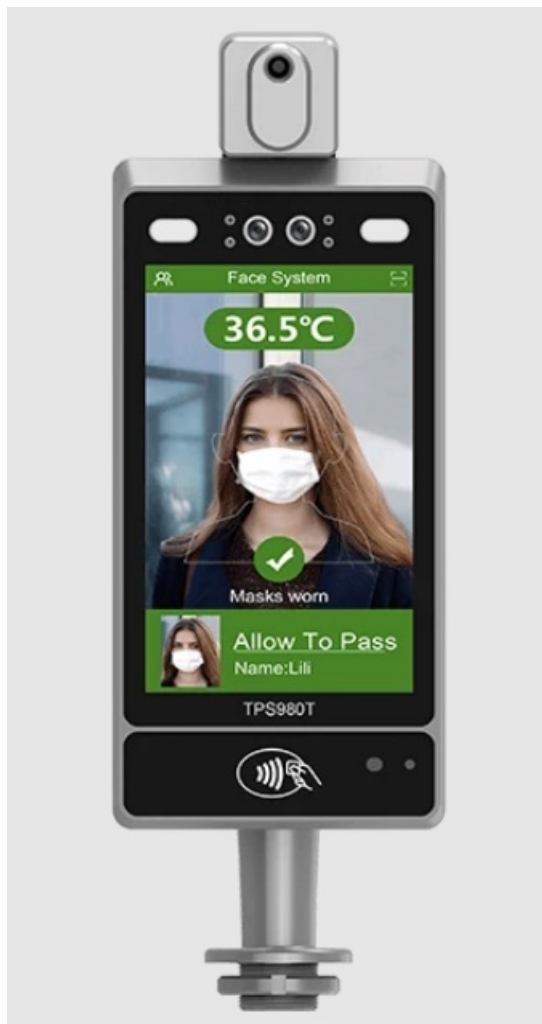
8-inch ultra-thin Face Recognition Body Temperature Detection Terminal

Suitable for Brake machine, wall-mounted, desktop, floor-mounted installation
Model:
Suitable for office areas, hotels, passage gates, office buildings, schools, shopping malls,shops, communities, construction sites and other public services and management projects where face access control is required.

Product Features

1. Wide dynamic monocular living anti-counterfeiting, completely solving the deception of various photos on various uploads;
2. Support LED intelligent fill light;
3. Support serial port, Wiegand 26-bit, 34-bit output, and support output content configuration;
4. Real-time body temperature monitoring, and body temperature tolerance range is accurate to 0.3 °, body temperature detection distance is 0.3-0.5 meters;
5. Support the device to store thousands of people locally
   1. The cloud platform device supports the simultaneous storage of 50,000 face photos (less than 400KB), 1 million identification records (0.45KB), and 20,000 live capture photos;
   2. The LAN device supports simultaneous storage of 20,000 face photos (the photo is calculated based on 100KB) and 1 million recognition records (including the recent 10,000 live capture photos).

Instructions

1. N face recognition, the face database supports 20,000 faces, and the top1 percentage of hits is 99.99%;
2. The accuracy ratio of 1: 1 personal identification is over 99%;

3. Fast recognition

   1. Face tracking and detection takes about 20ms;
   2. Face feature extraction takes about 200ms;
   3. The live detection of face identification takes 0.2ms;
   4. Feature identification takes 0.5ms (multiple recognition of 10,000 face database takes average);
   5. Support stranger detection, stranger level can be configured;
   6. Support live photo saving on face recognition or stranger detection;
   7. Support HTTP port connection;
   8. Support public network and local area network management
   9. Support screen display of content configuration
   10. Support identifying distance configuration

Environmental Requirements:

Conditions to be avoided during use

1. The sensor should be used in an indoor environment because it is greatly influenced by the environment when used outdoors
2. Because of the characteristic of an infrared sensor, the accuracy of measurement will be seriously affected in the application environment, such as the sensor facing the window, air conditioner, radiator and other high-temperature objects

Product Specification Table

Product model	Category	Performance
camera	Resolution	200W
	Types	RGB + IR
	Aperture	4.0mm
	Focus	0-2 0 to 2 meters
	White balance	Auto
Screen	size	8 IPS 8-inch, full-view IPS LCD screen

	Resolution	1280*800 500cd 1280 * 800, brightness 500cd
Processor	CPU	4 cores RK3288
RAM	DDR3	2GB
ISP	Image Processing	ISP Built-in dual-channel ISP
Local storage	Tf card	8GB
Accessories	Fill light	Infrared, LED lights
	Card reader module (Reserved)	IC/ID IC / ID card reader, ID card reader and thermal imaging temperature detection module
	Network module	2.4Gwifi 4G Support wired, 2.4Gwifi, 4G network card
Port	Audio	line out 1 Audio line out
	USB USB port	USB2.0 micro2 USB2.0 and 2micros
	232 Serial port 232	2 RS232 ports, 1 WG input, and with WG output
	Wiegand port	2.5mmX2PIN

	Reset port	Lateral pore position, external buttons
	OTG OTG port	1 In Channel 1

Functions	Offline locally use	20 thousand local face database
	Face Detection	Support simultaneous detection and tracking of 5people
	1: N face recognition	Support one in 10,000 error recognition with 99% pass rate
	1:1	Support optional card swiping module, ID card module which can realize 1: 1 face identification
	Stranger detection	Support
	Offline locally use	

	Distance recognition adjustment	Support
	Remote upgrade	Support
	Device port	Including equipment management, access control, personnel or photo management, record query, etc.
General parameters	Protection level	For semi-outdoor or pure outdoor use

	Power	DC12V
	Operating temperature	-10℃-60℃
	Working humidity	10%-90%
	Static electricity	4K/8K
	Battery radiation	Not exceeded
	Power consumption	5W MAX
	Equipment weight	1.6KG About3.5 lbs
	Equipment size	373.7*135*85mm

Modules	Functions	Introductions
Display interface	Boot interface	Neutral (customizable)
	Verification interface	1.　Including display of prompt 'Please punch in' , network signal (whether it is bound/connected), time, date, weekday; 2.　Pop-up prompts for abnormal network connection, notification display, ID card information, and prompts for successful or failed verification , which can be customized 3.　Including the version number, the number of people, and the number of pictures in database.
	Menu interface	Menu style and human-computer interaction,　how to enter other modules, management, etc.
	User added	Add people to local apps
User Management	User delete	Delete people on local apps

| Equipment management	Unlocking rules	Door opening time after verification
	Wiegand / RS23	Wiegand format 26/34, RS232
	language settings	Simplified Chinese
	Network settings	Wired, Wifi
	Time settings	Time, date, time zone, setting (manual setting or server synchronization)

	Voice settings	0-10 (0 is silent, the default is 5)

	Brightness settings	1-10 (default is 5)
About this machine	Date of manufacture	The equipment time
	Serial number	Devise serial number
	Manufacturer	Manufacturer name
	Machine type	Device model
Others	Other functions	Customizable

Dimensions

- Body temperature of scanning face
- Standard body temperature
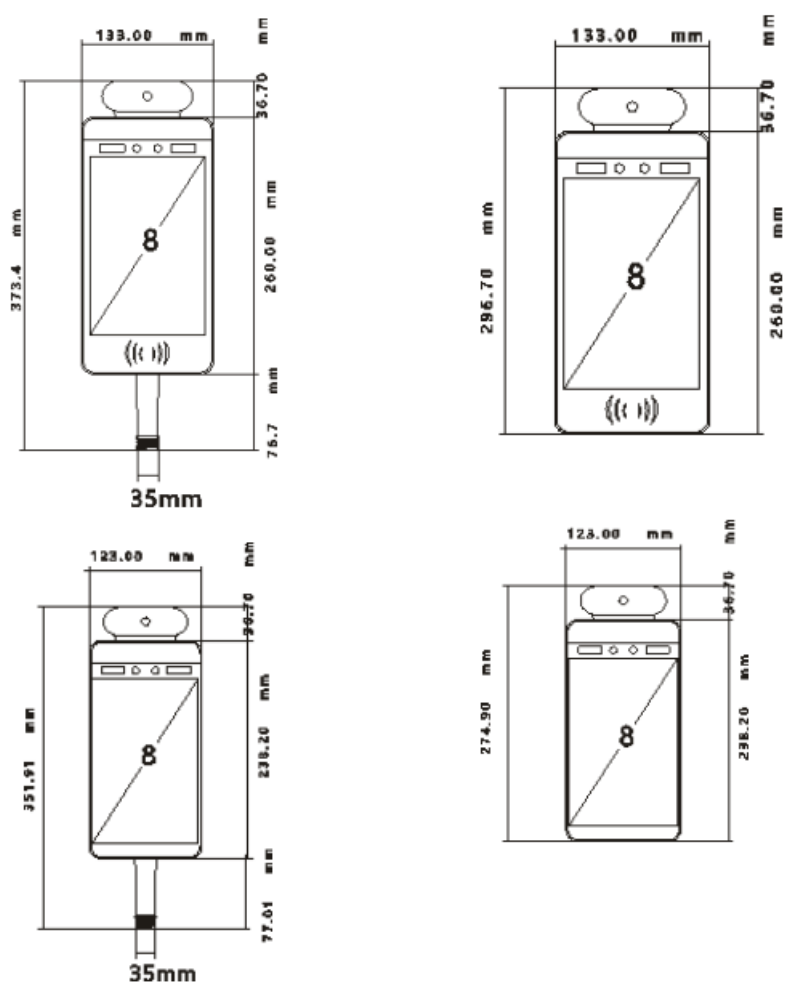
The schematic diagram of the gate is shown in t he figure below.
Note: If the cable interface is different from the illustration, see the cable supplement on the next page (subject to the actual product and wiring diagram)
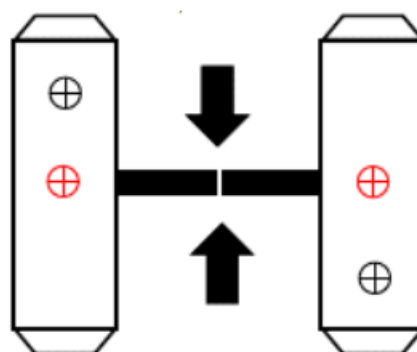
Instructions for appearance

1. According to the requirements of the installation site, a space of 35mm in diameter is generally opened in the middle or front of the gate , as shown in the figure, is the recommended opening position.
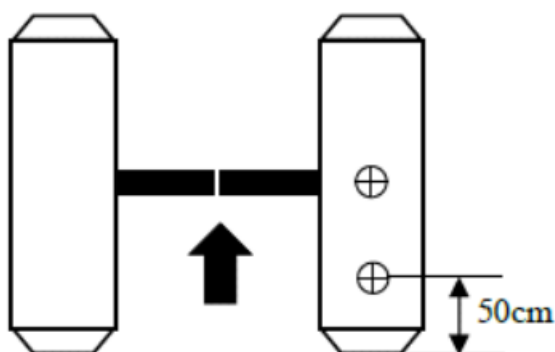
Single channel gate   Double channel gate

Note: The position of the opening should be based on the actual application and the type of gate 35mm is only a reference.

2. Unscrew the nut at the bottom of the gate , pass the cable through the nut, and remove the nut, as shown in the figure.
Note: Do not connect the network cable, power cable, etc. At this time to avoid installation trouble

3. Under the gate , pass the cable and cable interface through the washer and nut in sequence, and tighten the nut to the thread , as shown in the figure.
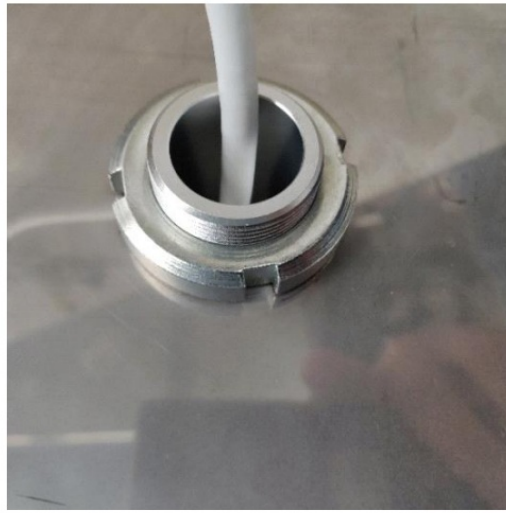
4. Connect the power and network cable, and the screen will start

5. Hold the post with both hands and turn it gently to adjust the angle of the gate , as shown in the figure. According to the recognition interface, adjust the gate to the proper recognition angle

For Desktop

1. The nut needs to be removed, the tail wire is passed through the stainless steel bracket and the nut in sequence, and the angle is tightly tightened; it is suitable for program debugging.

2. Place the desktop on the desktop, and place the device on the two "L" card positions above the bracket and adjust the angle; It is suitable for the front desk visitors.

For wall mounted

1. Rotary type : Firstly, put the white 86 switchback box on the wall at 1400mm and the specific height should depend on the actual use.And then mark the four corners of the back box with a pen, drill four holes with an impact drill, place the rubber plug in the hole, fix the back box with screws, and then do the cable. This method is installed for surface If concealed installation is required, draw a hole in the four sides of the size of the back box with an impact drill. Cement inserted inside should be estimated . After the cement is completely dry, fix the device to the back box with screws, as shown in the figure.

If there is any mistake with hand measure, subject to the actual product.

Note: Before tightening the screws, please ensure that all the tail wires are not crushed by the screws, causing a short circuit.
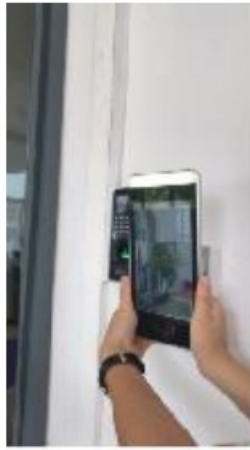
2. Wall hanging type Firstly,r emove the stainless steel wall hangings from the device . And then put the stainless steel plate on the wall at an appropriate height, drill four holes with an impact drill, place the rubber plug in the hole, fix the stainless steel plate to the wall with tapping screws.(If the tail wire comes out of the back of the box, it is n ecessary to make a hole in the wall to facilitate the wiring. If the tail wire comes out from the bottom, it only needs to be fixed and routed with a large white plastic trunking.) As shown in the figure.
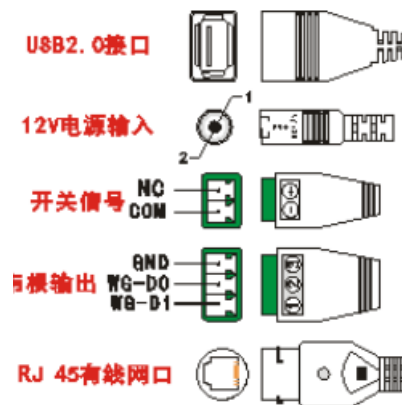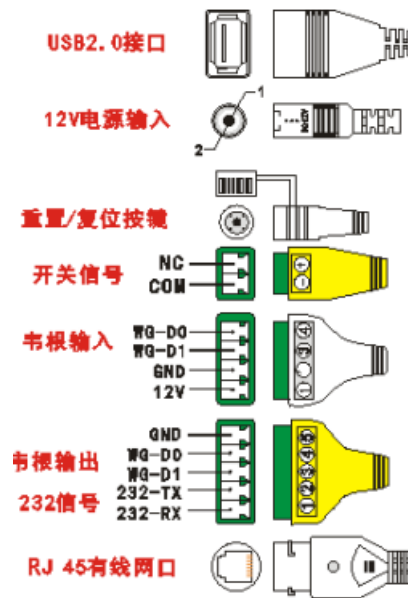

Wires outlet diagram of Wall-mounted

Cable wiring diagram, as follows
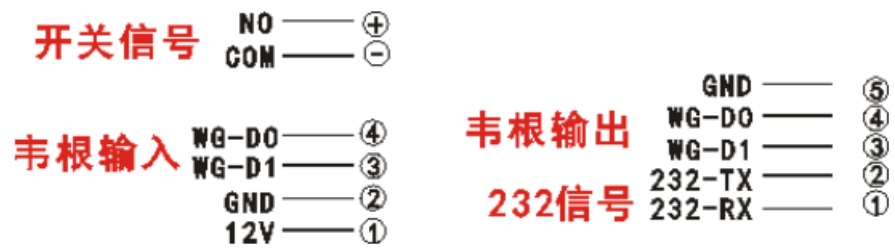
- Switch signal
- Wiegand input
- Wiegand output
- signal 232

8-inch face recognition tail wire description

- seven gate tail wires
- USB2.0 interface
- 12V power input
- Reset / Reset button
- Switch signal
- Wiegand input
- signal 232
- RJ45 wired network port

USB2.0接口
12V电源输入
重置/复位按键
开关信号　NC COM
韦根输入　WG-D0 WG-D1 GND 12V
韦根输出　GND WG-D0 WG-D1 232-TX 232-RX
232信号
RJ 45有线网口

USB2.0接口
12V电源输入
开关信号　NC COM
韦根输出　GND WG-D0 WG-D1
RJ 45有线网口

5Wall-mounted tail wires

- USB2.0 interface
- 12V power input
- Switch signal
- Wiegand output
- RJ45 wired network port

Product Name: Face Recognition & Temperature
Terminal Model: T-M8

FCC Statement

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

Radiation Exposure Statement:
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.

Documents / Resources

FCC Statement …	[**Tendcent TM8 Face Recognition and Temperature Terminal**](#) [pdf] Instructions TM8, 2AYPATM8, TM8 Face Recognition and Temperature Terminal, TM8, Face Recognition and Temperature Terminal

Manuals+,