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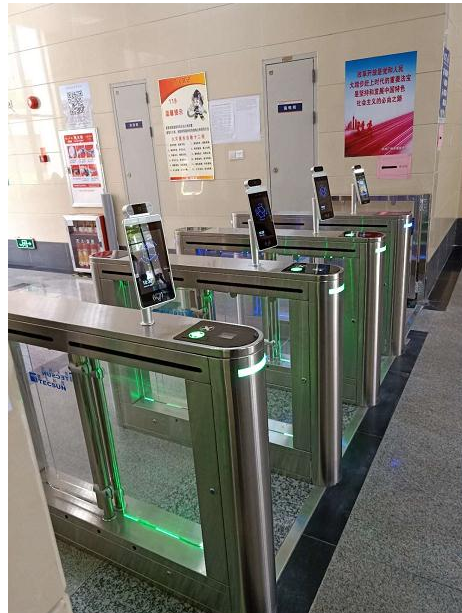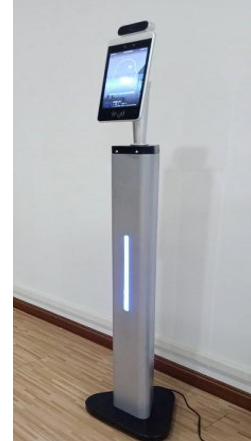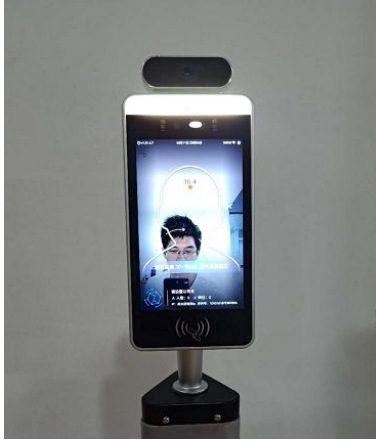
  ▶ -Reorient or relocate the receiving antenna.
  ▶ -Increase the separation between the equipment and receiver.
  ▶ -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  ▶ -Consult the dealer or an experienced radio/TV technician for help.

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.

8 寸超薄人脸体温检测识别终端

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

适用于闸机、壁挂式、桌面式、落地式安装
Suitable for Brake machine, wall-mounted, desktop, floor-mounted installation

型号：

适用于办公区域、酒店、通道闸机、写字楼、学校、商场、商店、社区、建筑工地等公共服务及管理项目等需要用到人脸门禁的场所。
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.

产品特性 Product Features

1、宽动态单目活体防伪，彻底解决各类照片在各种载上的欺骗；

1. Wide dynamic monocular living anti-counterfeiting, completely solving the deception of various photos on various uploads;

2、支持 LED 智能补光；

2. Support LED intelligent fill light;

3、支持串口、韦根 26、34 输出，输出内容支持配置；

Support serial port, Wiegand 26-bit, 34-bit output, and support output content configuration;

3、实时体温监控，体温公差范围精准到 0.3°,体温检测距离 0.3-0.5 米；

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;

4、支持设备本地存储万人库：

Support the device to store thousands of people locally

（a) 云平台设备支持同时储存 5 万张人脸照片（小于 400KB）、100 万条识别记录(0.45KB)，2 万现场抓拍照片；

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;

（b）局域网设备支持同时储存 2 万张人脸照片（照片按 100KB 计算）、100 万条识别记录（含最近 1 万张现场抓拍照片）。

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).

1、1:N 人脸识别，人脸库支持 20000 张人脸，top1 命中率 99.99%；

1: N face recognition, the face database supports 20,000 faces, and the top1 percentage of hits is 99.99%;

2、1：1 人证比对准确率 99%以上；

The accuracy ratio of 1: 1 personal identification is over 99%;

3、识别速度快：Fast recognition

（a)人脸跟踪与检测耗时 20ms 左右；

Face tracking and detection takes about 20ms;

（b) 人脸特征提取耗时 200ms 左右；

Face feature extraction takes about 200ms;

（c）活体检测人脸比对耗时 0.2ms;

The live detection of face identification takes 0.2ms;

（d)特征比对耗时 0.5ms（10000 人脸库多次识别取平均值）；

Feature identification takes 0.5ms (multiple recognition of 10,000 face database takes average);

4、支持陌生人检测，陌生人等级可配置；

Support stranger detection, stranger level can be configured;

5、支持人脸识别或陌生人检测时的现场照片保存；

Support live photo saving on face recognition or stranger detection;

6、支持 HTTP 方式的接口对接；

Support HTTP port connection;

7、支持公网、局域网使用部署方式；

Support public network and local area network management

8、支持屏幕显示内容配置；

Support screen display of content configuration

9、支持识别距离配置。

Support identifying distance configuration

环境要求：

Environmental Requirements:

使用过程中应避免的情况：

Conditions to be avoided during use：

①传感器在室外使用时受环境影响较大，应在室内环境使用

①The sensor should be used in indoor environment because it is greatly influenced by the environment when used outdoors

②由于红外传感器的特性，在使用环境中，如传感器正对窗户、空调、暖气片等高温物体，会严重影响测量准确性

②Because of the characteristic of 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

产品规格表 Product Specification Table

产品型号 Product model	类别 Category	性能 Performance
摄像头 camera	分辨率 Resolution	200W
	类型 Types	RGB+红外 RGB + IR
	光圈 Aperture	4.0mm
	焦距 Focus	0-2 米 0 to 2 meters
	白平衡 White balance	自动 Auto
屏幕 Screen	尺寸 size	8 英寸，全视角 IPS 液晶屏 8-inch, full-view IPS LCD

		screen
	分辨率 Resolution	1280*800，亮度 500cd 1280 * 800, brightness 500cd
处理器 Processor	CPU	4 核 cores，RK3288
内存 RAM	DDR3	2GB
ISP	图像处理 Image Processing	内置双路 ISP Built-in dual-channel ISP
本地储存 Local storage	Tf 卡 Tf card	8GB
配件 Accessories	补光灯 Fill light	红外、LED 灯 Infrared, LED lights
	读卡模块（预留） Card reader module (Reserved)	IC/ID 读卡器、身份证阅读器热成像体温检测模块 IC / ID card reader, ID card reader and thermal imaging temperature detection module
	网络模块 Network module	支持有线，2.4Gwifi、4G 网卡 Support wired, 2.4Gwifi, 4G network card
接口 Port	音频 Audio	一路音频 line out 1 Audio line out
	USB 接口 USB port	USB2.0 micro2 个 USB2.0 and 2micros
	串口 232 Serial port 232	2 路 RS232 接口，1 路 WG 输入、1 路 WG 输出 2 RS232 ports, 1 WG input, and with WG output
	韦根接口 Wiegand port	2.5mmX2PIN

	复位接口 Reset port	侧面孔位、外接按键 Lateral pore position, external buttons
	OTG 接口 OTG port	1 路 In Channel 1
功能 Functions	本地离线使用 Offline locally use	本地 2W 人脸库 20 thousand local face database
	人脸检测 Face Detection	支持同时检测跟踪 5 个人 Support simultaneous detection and tracking of 5 people
	1：N 人脸识 1: N face recognition	支持万分之一的误识率，99% 的通过率 Support one in 10,000 error recognition with 99% pass rate
	1:1	支持选配刷卡模块,身份证模块可实现 1:1 人脸比对 Support optional card swiping module, ID card module which can realize 1: 1 face identification
	陌生人检测 Stranger detection	支持 Support
	识别距离调整 Distance recognition adjustment	支持 Support
	远程升级 Remote upgrade	支持 Support
	设备接口 Device port	设备管理、权限管理、人员/照片管理，记录查询等 Including equipment management, access control, personnel or photo management, record query, etc.
常规参数 General parameters	防护等级 Protection level	使用于半室外或纯室外 For semi-outdoor or pure outdoor use

	电源 Power	DC12V
	工作温度 Operating temperature	-10℃-60℃
	工作湿度 Working humidity	10%-90%
	静电 Static electricity	4K/8K
	电池辐射 Battery radiation	无频点超标 Not exceeded
	功耗 Power consumption	5W MAX
	设备重量 Equipment weight	约 1.6KG About3.5 lbs
	设备尺寸 Equipment size	373.7*135*85mm

产品规格表 Product Specification Table

模块 Modules	功能 Functions	简介 Introductions
显示界面 Display interface	开机界面 Boot interface	中性（可定制）Neutral (customizable)

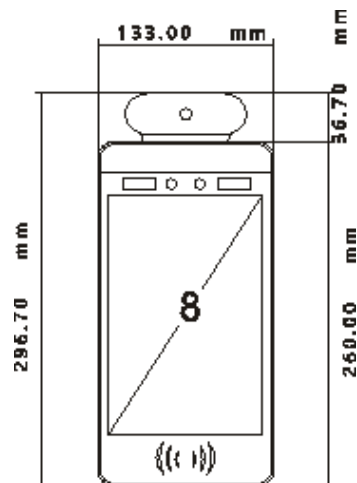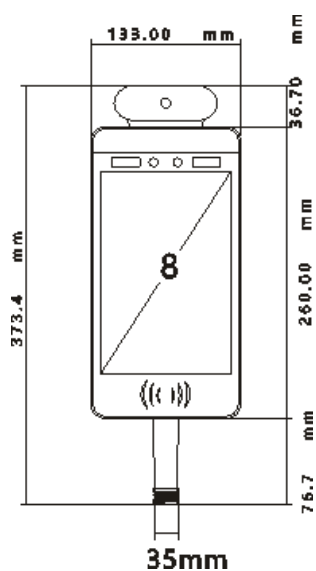|	验证界面 Verification interface	1、包括显示请打卡提示、网络信号（是否绑定/联网）、时间、日期、星期； 2、网络连接异常的弹窗提示，通知显示，身份证信息，验证成功或者失败提示可定制 3、版本号，人数，底库图片数量。 1. Including display of prompt 'Please punch in', network signal (whether it is bound / connected), time, date, weekday; 2. Pop-up prompts for abnormal network connection, notification 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.
	菜单界面 Menu interface	菜单样式以及人机交互，如何进入其他模块，管理等。 Menu style and human-computer interaction, how to enter other modules, management, etc.
用户管理 User Management	用户添加 User added	本地应用上增加人员 Add people to local apps
	用户删除 User delete	本地应用上删除人员 Delete people on local apps
设备管理 Equipment management	开锁规则 Unlocking rules	验证通过后开门时间 Door opening time after verification
	韦根/RS23 Wiegand / RS23	韦根格式 26/34,RS232 Wiegand format 26/34, RS232
	语言设置 language settings	简体 Simplified Chinese
	网络设置 Network settings	有线，Wifi Wired, Wifi
	时间设置 Time settings	时间、日期、时区、设置（手动设置或服务器同步） Time, date, time zone, setting (manual

		setting or server synchronization)
	语音设置 Voice settings	0-10(0 为静音，默认为 5） 0-10 (0 is silent, the default is 5)
	亮度设置 Brightness settings	1-10(默认为 5） 1-10 (default is 5)
关于本机 About this machine	出厂日期 Date of manufacture	设备的出场时间 The equipment time
	序列号 Serial number	设备序列号 Devise serial number
	制造商 Manufacturer	制造商名称 Manufacturer name
	机器型号 Machine type	设备型号 Device model
其它 Others	其它功能 Other functions	可定制 Customizable

外形尺寸 Dimensions

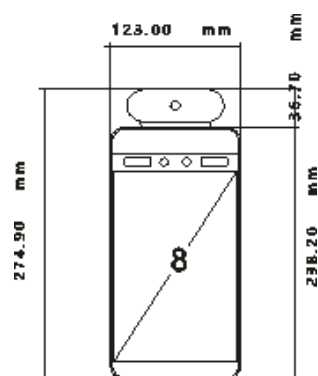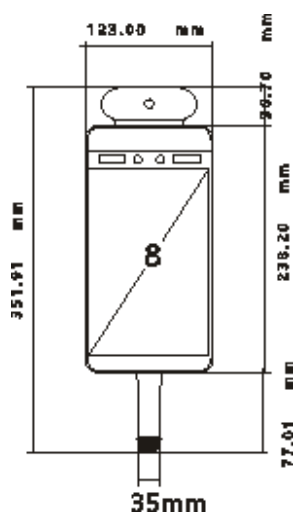刷卡体温 Body temperature of scanning face   标准体温 Standard body temperature

安装说明
Installation instructions

A 外观部分指示说明

A Instructio

ns for appearance

闸机头示意图如下图所示。

The schematic diagram of the gate is shown in the figure below.

注意：若线缆接口与图示不同，参见下一页线缆补充（以实物和接线图为准）

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)
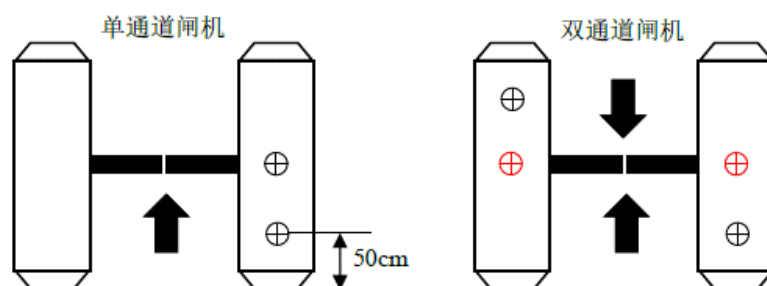

B 外观部分指示说明

B Instructions for appearance

①根据安装现场的需求，在闸机上的空间位置，一般中间或前侧，开一个直径 35mm 的孔，

如图所示，⊕为建议开孔位置。

①According 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.

单通道闸机 Single channel gate　　　　双通道闸机 Double channel gate

注意：开孔位置应根据实际应用场景和闸机类型，35mm 仅为参考值。

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

②拧下闸机头立柱最下方的螺母，将线缆从螺母穿出，取下螺母，如图所示。

　　Unscrew the nut at the bottom of the gate, pass the cable through the nut, and remove the nut, as shown in the figure.

注意：此时不要连接网线、电源线等，避免安装麻烦。

Note: Do not connect the network cable, power cable, etc. At this time to avoid installation trouble

③在闸机下方，将线缆及线缆接口依次穿过垫片、螺母，将螺母对准螺纹拧紧，如图所示。

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连接电源、网线，屏幕画面启动。

Connect the power and network cable, and the screen will start

⑤双手扶住立柱，轻轻转动，可调节闸机角度，如图所示。根据识别界面，将闸机头调整至合适的识别角度。

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

桌面式 For Desktop

①需要将螺母取下，将尾线依次穿过不锈钢支架和螺母，用力拧紧调整好角度即可；适用于方案调试。

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.

①将桌面式置于桌面上，人脸设备放置在支架上方两"L"型卡位上调整好角度即可；适用于前台访客处。

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.

壁挂式 For wall-mounted

①旋转式：将白色 86 开关底盒置于墙面 1400mm 处，具体高度根据实际使用情况而定，用笔在底盒四个角处做上标志，用冲击钻钻出四个孔，胶塞置于孔内，用螺丝将底盒固定好，然后做排线，此法为明装；如果需要内置暗装，侧在墙上画出底盒大小的四方用冲击钻开洞打线槽，内部镶入水泥估计好，待水泥完全干透后再用螺丝将设备固定于底盒上，如图所示！

①Rotary type : Firstly, put the white 86 switch back 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.

手量尺寸若有误差，以收到实际产品为准

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

注意：锁紧螺丝前，请保证所有尾线不被螺丝压破，造成短路。

Note: Before tightening the screws, please ensure that all the tail wires are not crushed by the screws, causing a short circuit.

②贴墙式：将不锈钢壁挂件从人脸设备上取下，在墙面上适当高度置于不锈钢板，用笔做标注，冲击钻钻四个孔位，胶塞置于孔内，用自攻螺丝先将不锈钢板固定于墙上（如果尾线从底盒后部出来需要在墙上适当开洞，方便走线；如果尾线从底部出来，只需要用白色大塑料线槽固定和走线），如图所示！

②Wall-hanging type：Firstly,remove 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 necessary 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.

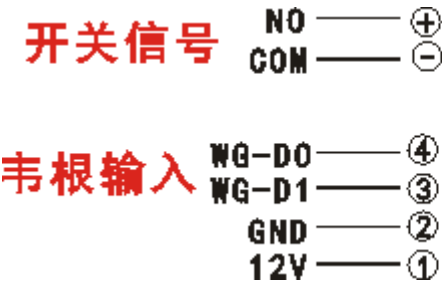
壁挂出线图 Wires outlet diagram of Wall-mounted

后盒出线 outlet on the back   底部出线 outlet at the bottom

线缆接线说明图，如下 Cable wiring diagram, as follows

开关信号
NO —— ⊕
COM —— ⊖

韦根输入
WG-D0 —— ④
WG-D1 —— ③
GND —— ②
12V —— ①

韦根输出
GND —— ⑤
WG-D0 —— ④
WG-D1 —— ③
232-TX —— ②

232信号
232-RX —— ①

开关信号 Switch signal　　　　韦根输出 Wiegand output
韦根输入 Wiegand input　　　232 信号 signal 232

8 寸人脸识别尾线说明 8-inch face recognition tail wire description

闸机头尾线（7 根）seven gate tail wires

USB2.0 接口 USB2.0 interface

12V 电源输入 12V power input
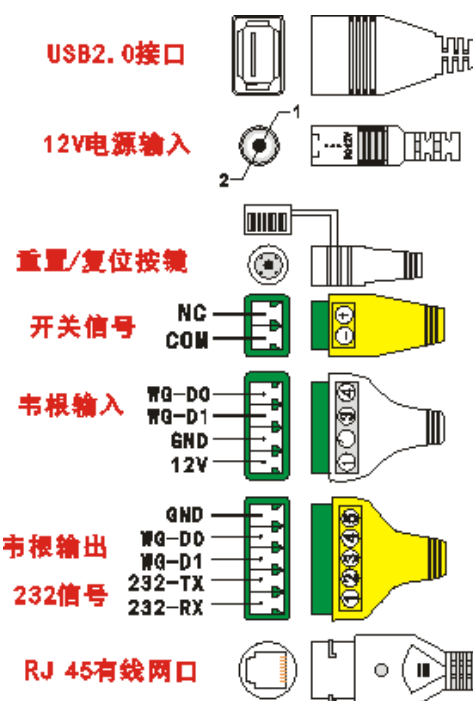
重置/复位按键 Reset / Reset button

开关信号 Switch signal

韦根输入 Wiegand input

韦根输出 Wiegand output
232 信号 signal 232

RJ45 有线网口　RJ45 wired network port
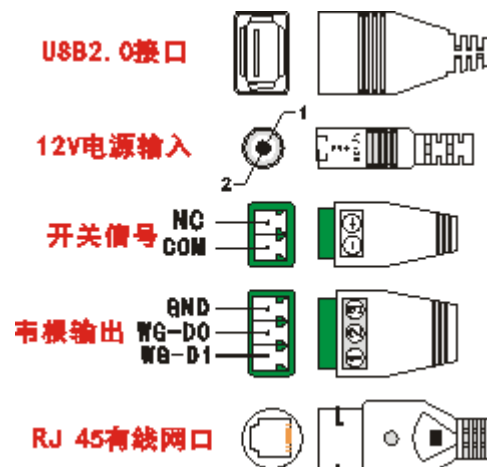

壁挂尾线（5 根）5Wall-mounted tail wires

USB2.0 接口 USB2.0 interface

12V 电源输入 12V power input

开关信号 Switch signal

韦根输出 Wiegand output

RJ45 有线网口 RJ45 wired network port

人脸识别终端

Product Name: Face Recognition & Temperature Terminal

Model: T-M8