



Fingerprint



Face



Access Control



Attendance

Face Recognition Products



A



B



C



D



E

User Manual

Device Parameter

Parameter	Model	A	B	C	D	E
Processor & Algorithm	Dual-core processor 1Ghz main frequency + DDR3 512M memory + 8G Flash\ Deep learning AI recognition algorithm					
Camera	Visible light camera: 200m pixels, 1 / 2.7 ' sensor, 4mm focal length, F2.4 aperture, 110db wide dynamic range, 90 ° viewing angle Infrared light camera: 200m pixels, 1/5 ' sensor, 4mm focal length, 88 ° viewing angle					
Screen	5 inch HD IPS LCD screen 1280 * 800 resolution		7 inch HD IPS LCD screen 1280 * 800 resolution			
User	5000+	5000+	5000+	20000+	20000+	
Event Record	100000+	100000+	70000+	200000+	200000+	
Input	Weigand input: 1/built-in EM \ Mifare card reader module/Exit button: 1/ Door magnet alarm: 1/Alarm input interface: 1					
Output	2 relay output interfaces\1 weigand output					
Communication	TCP/IP communication interface					
Customizable	Customizable WiFi wireless communication, touch screen					
Material	ABS + PC Aluminum alloy Galvanized sheet	Aluminum alloy /Galvanized sheet			Galvanized sheet	
Size / Installation	238*104*26mm Wall mounting	217*95*32mm Wall mounting	261*126*33mm Turnstile\ Wall mounting	275*156*39mm Turnstile	375*195*56mm Wall mounting	
IP	IP64	IP64	IP65	IP66	IP66	
Voltage/Current	DC12V / \geq 3A					
Temperature /Humidity	-40°C~65°C 10%~90%	-40°C~60°C 10%~90%	-40°C~65°C 10%~90%	-40°C~65°C 10%~90%	-40°C~65°C 10%~90%	

Recognition distance
0.5 ~ 1.5m.

Adapt to many
environments

The recognition
rate is up to 99.5%.

Recognition
speed <0.5s

Advanced Features



Staff Attendance

Time attendance management can realize working hours setting, shift, overtime register, leave register, add missed card record, attendance count and other functions.



Import staff in batches through excel tables

Staff name, title, access granted, etc. can be imported in batches through an Excel table



Import staff in batches through photos

With named photos, you can import staff in batches



Multi-threaded download

With multi-threaded downloading technology, the speed of synchronizing device data is doubled.

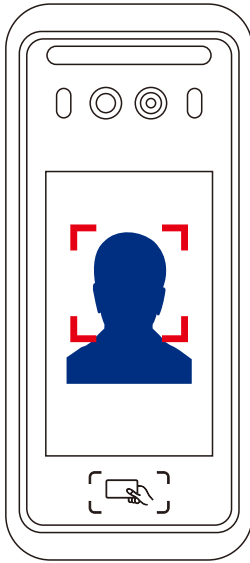
Indicator Light and Sound Indication



Installation method of each model:

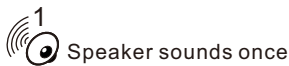


Image and Sound Indication

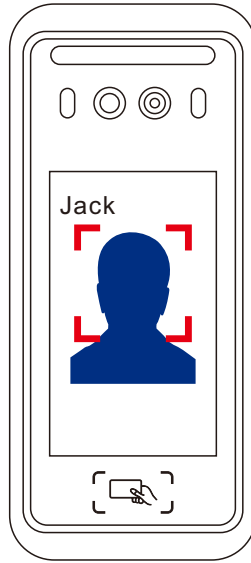


Only the red frame

Caught the human face, but failed to recognize it. May be too far away or face not registered.

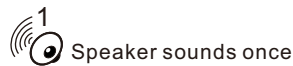


Speaker sounds once

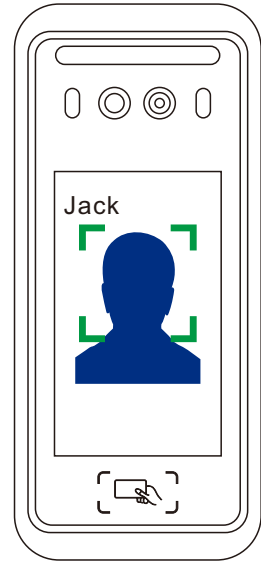


Red frame + Name

Recognized the staff, but it is failed to access the liveness detection; or this staff does not have the access granted.

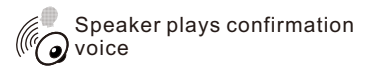


Speaker sounds once

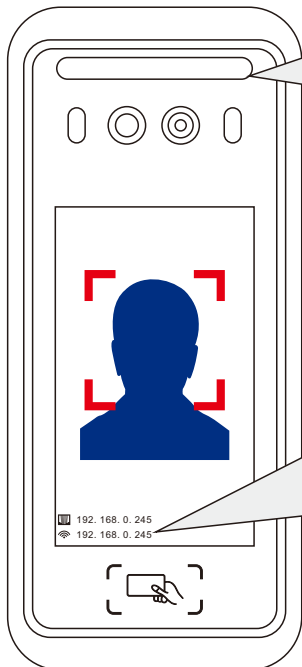


Green frame + Name

Recognized the staff, and passed the liveness detection





Speaker plays confirmation voice



The fill light and screen will be automatically turned off if no face is detected within 20S, and will be turned on again after detection.

If the device is connected to the network, the IP address of the device will be displayed in the lower left corner. The default is 192.168.0.245

-  192. 168. 0. 245 It is wired network
-  192. 168. 0. 245 It is wireless network

Important Notices

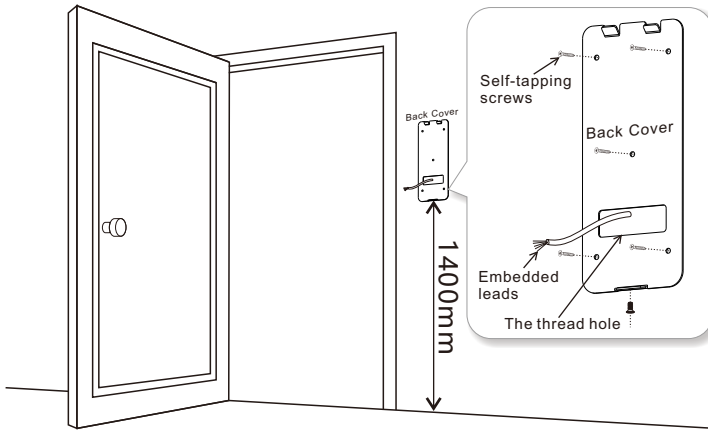


If users do not follow below items, system may not work well, even bring some damages.

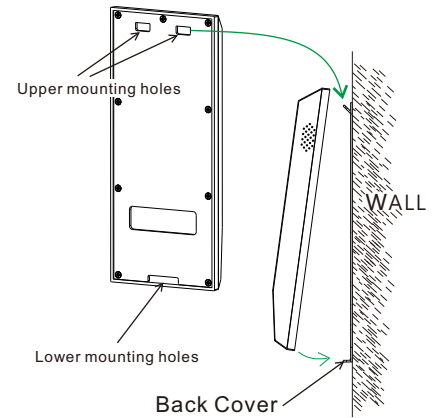
Please do not power on during installation and wiring. Confirm that the connection is successful according to the instruction manual, and then power on. When connecting to a computer, the device's IP address cannot be duplicated; please turn off the computer's firewall or set the software as a special case before connecting to the network; the computer has dual network cards, please prohibit one in advance. Please use a professional power supply. The output current of the power supply should be larger than the current required by all equipments.

Product Installation

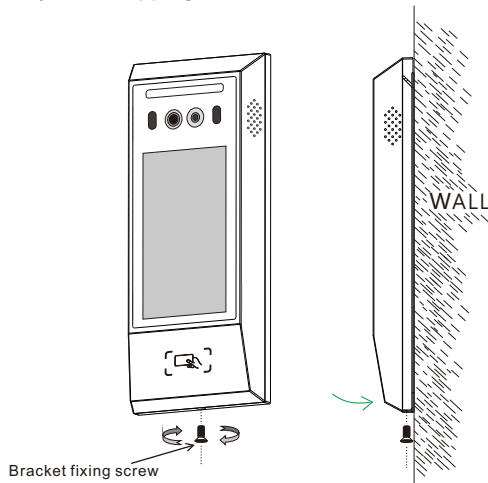
Wall mounting method:



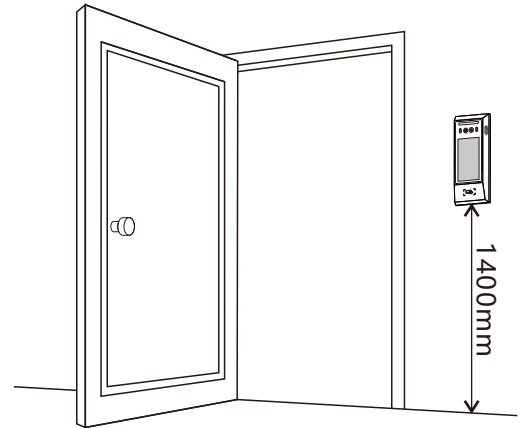
① Embedded power cables and network cables, and fix the mounting bracket to the wall. It is fixed by 5 self-tapping screws.



② Align the bracket with the upper mounting hole, press down, and insert the bracket into the lower mounting hole.

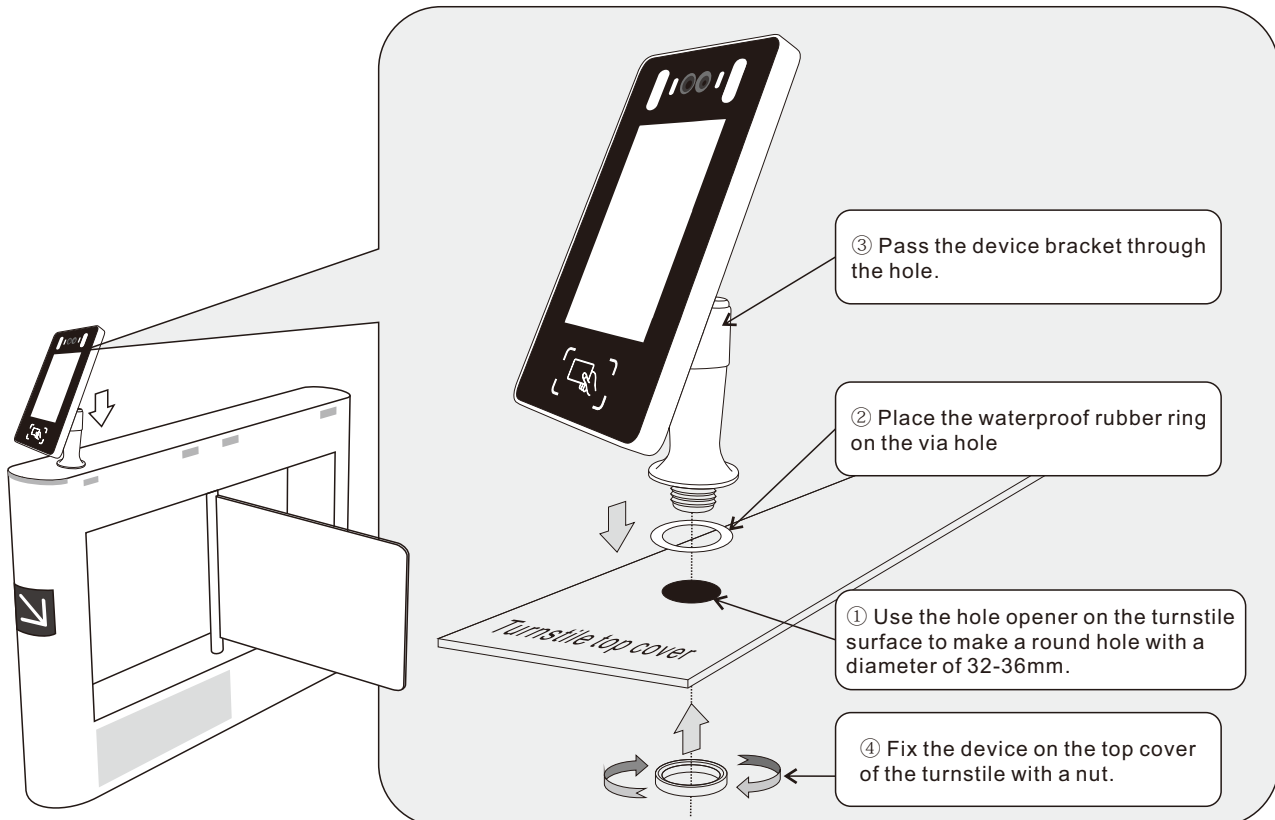


③ Screw up the bracket fixing screw from the bottom to fix the device.



④ The recommended installation height is about 1400mm. Please install it according to the actual use.

Turnstile Installation Method:



Accessories installation scene introduction

Column bracket

Suitable for turnstile installation
Applicable models C, D



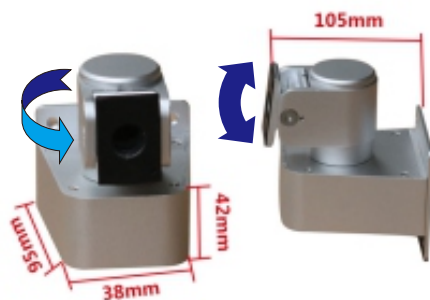
Wall mounting bracket

Suitable for wall mounting
Applicable model C



Doorpost

Applicable to no support places
that cannot be wall mounted



Gimbals

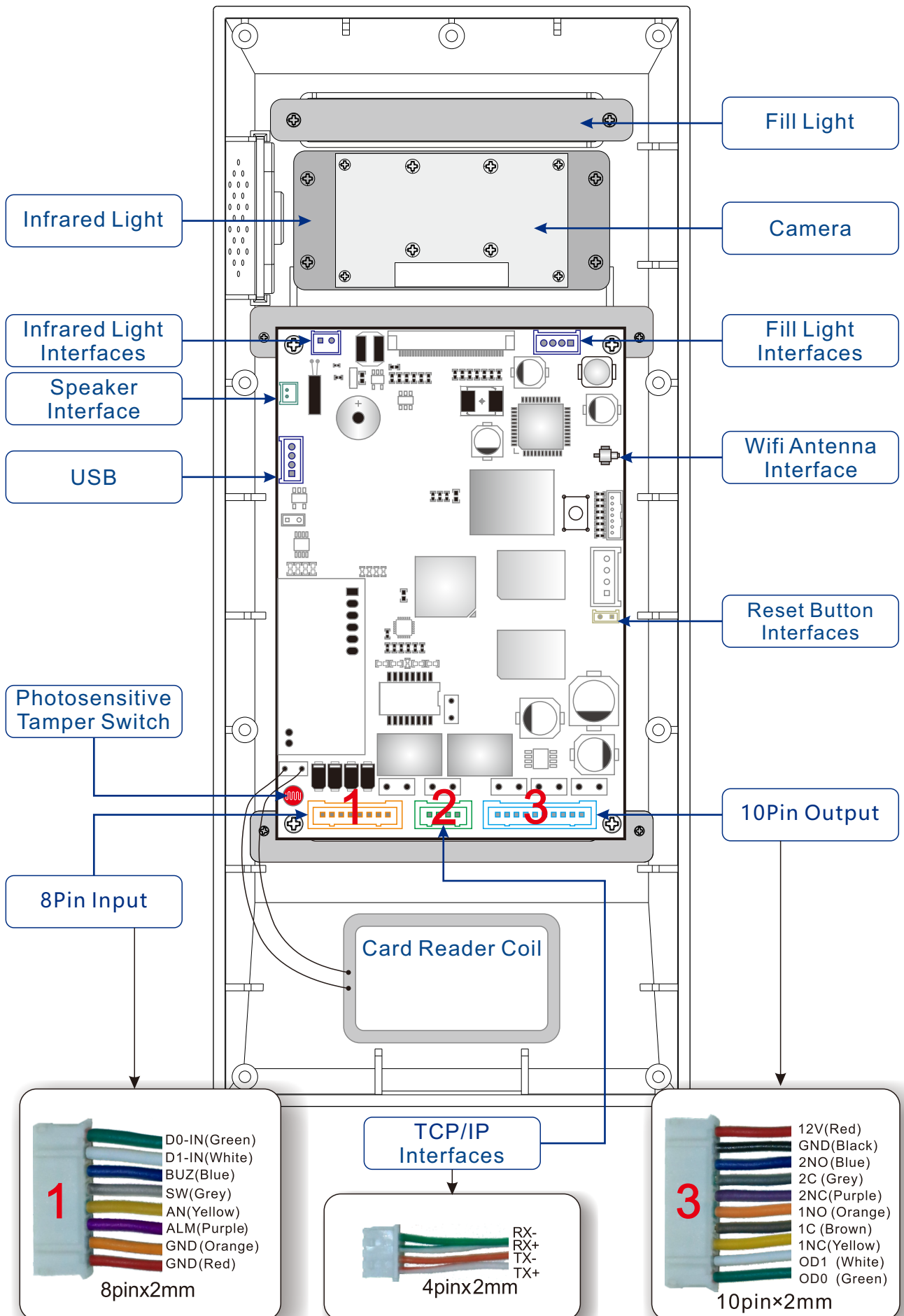


Sunshades

There are other types of accessories such as sunshades, gimbals, etc.

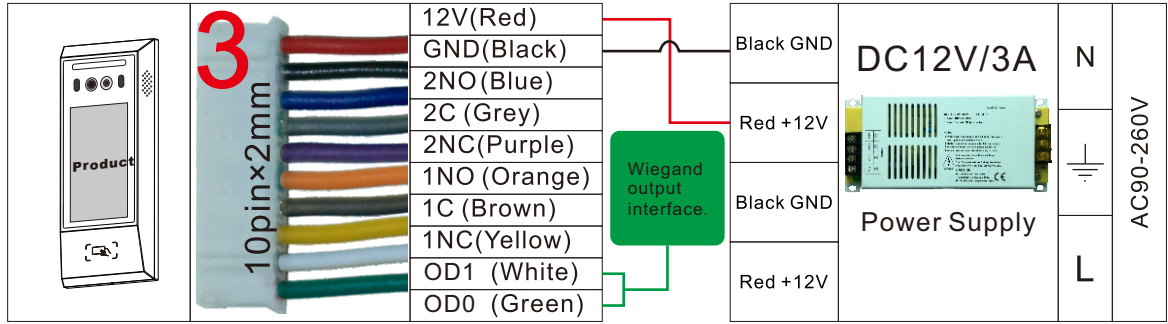
Product Structure and Wiring Instructions

Take AB as an example: the internal interface and structure chart of the device

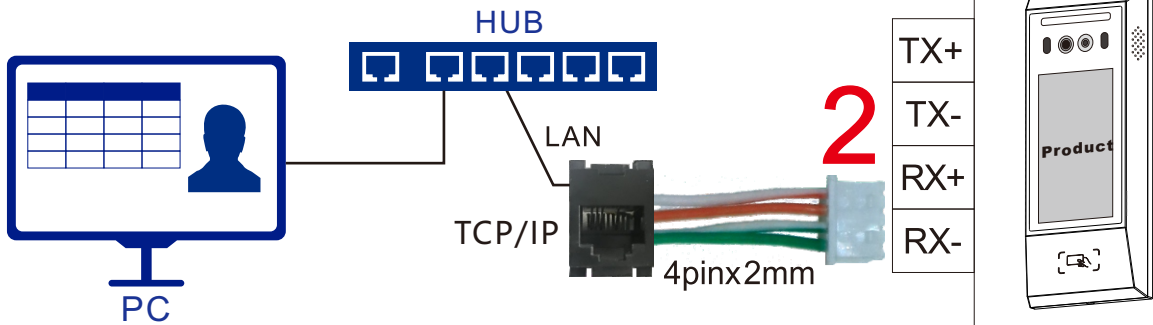


Wiring Diagram(Wall mounting)

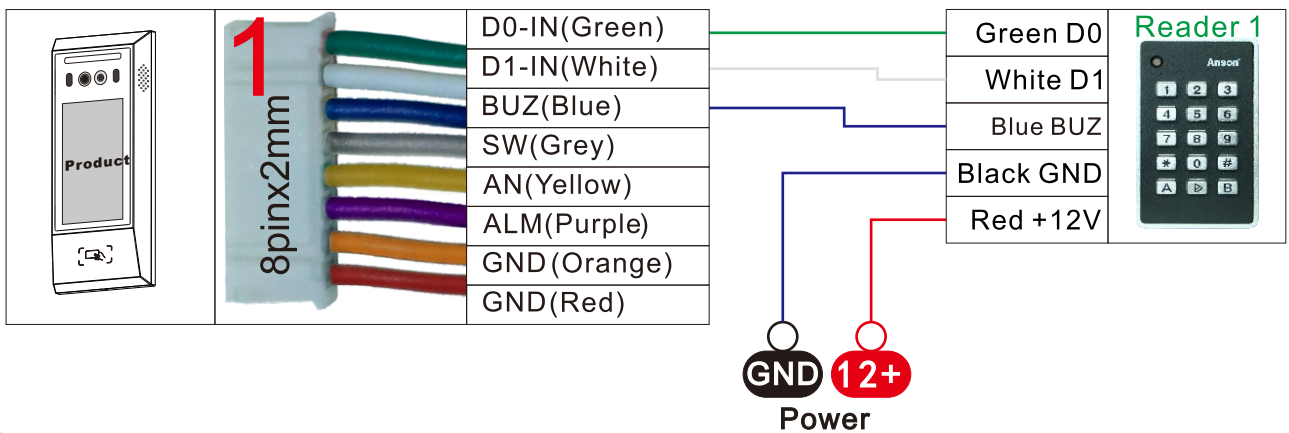
Power



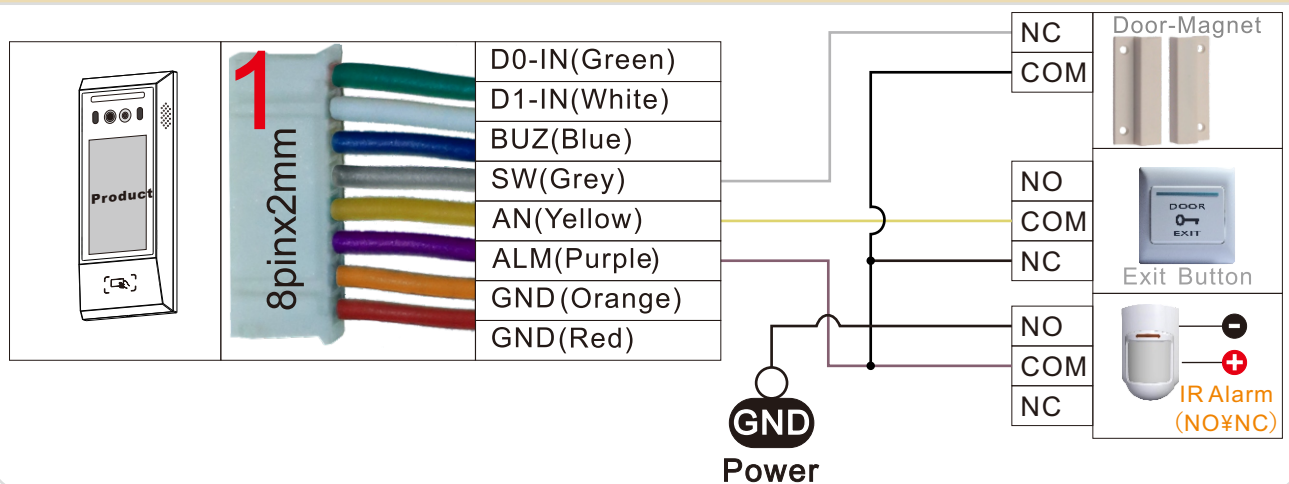
Communication



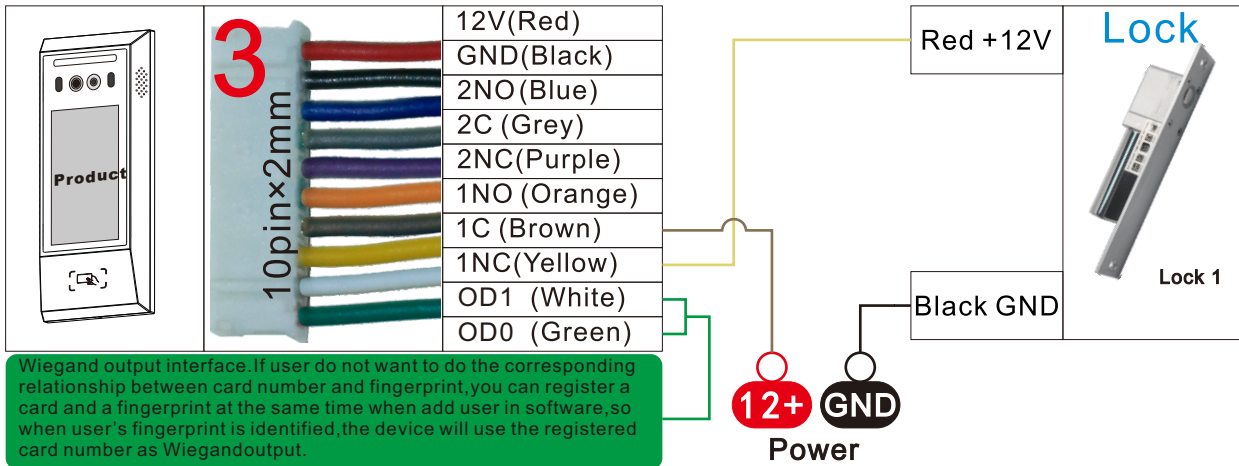
Reader



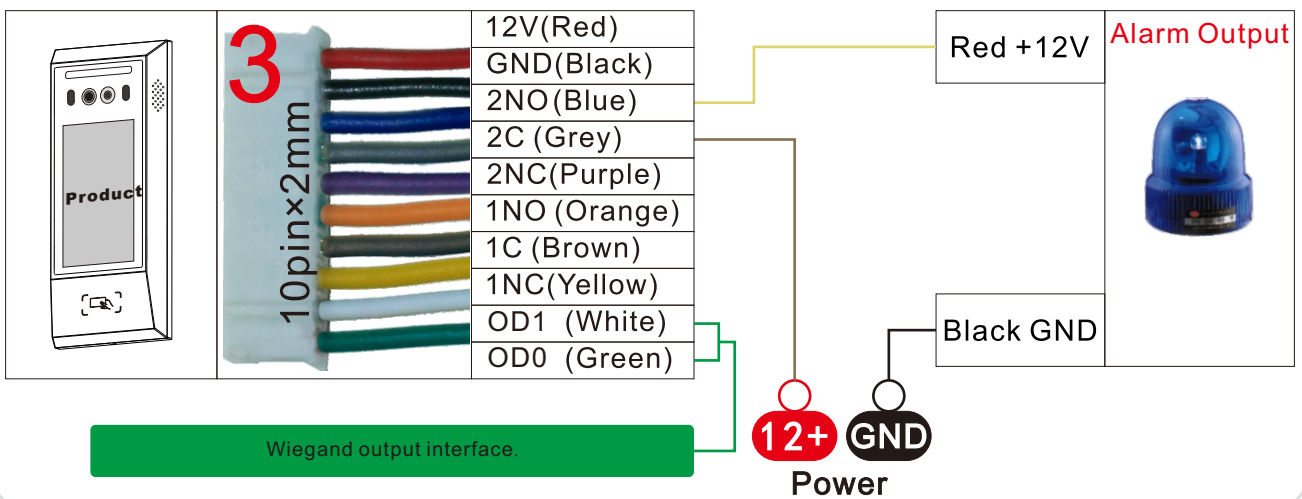
Exit Button, Door-Magnet and Alarm Input



Lock

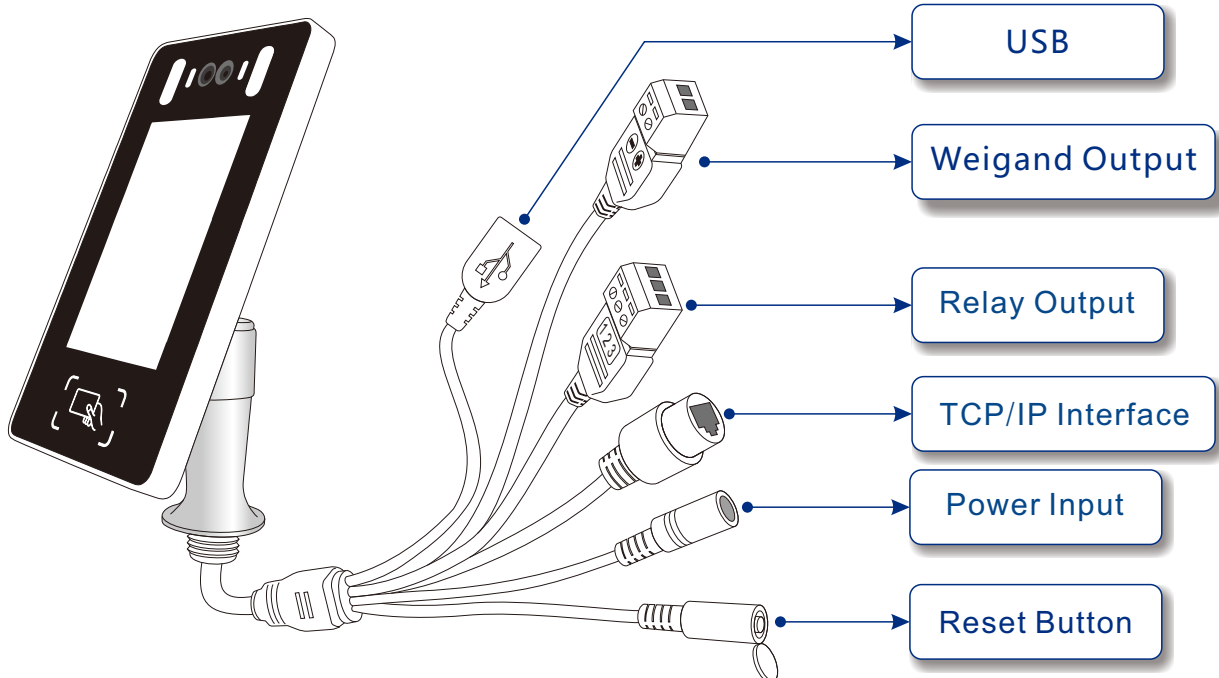


Alarm Output

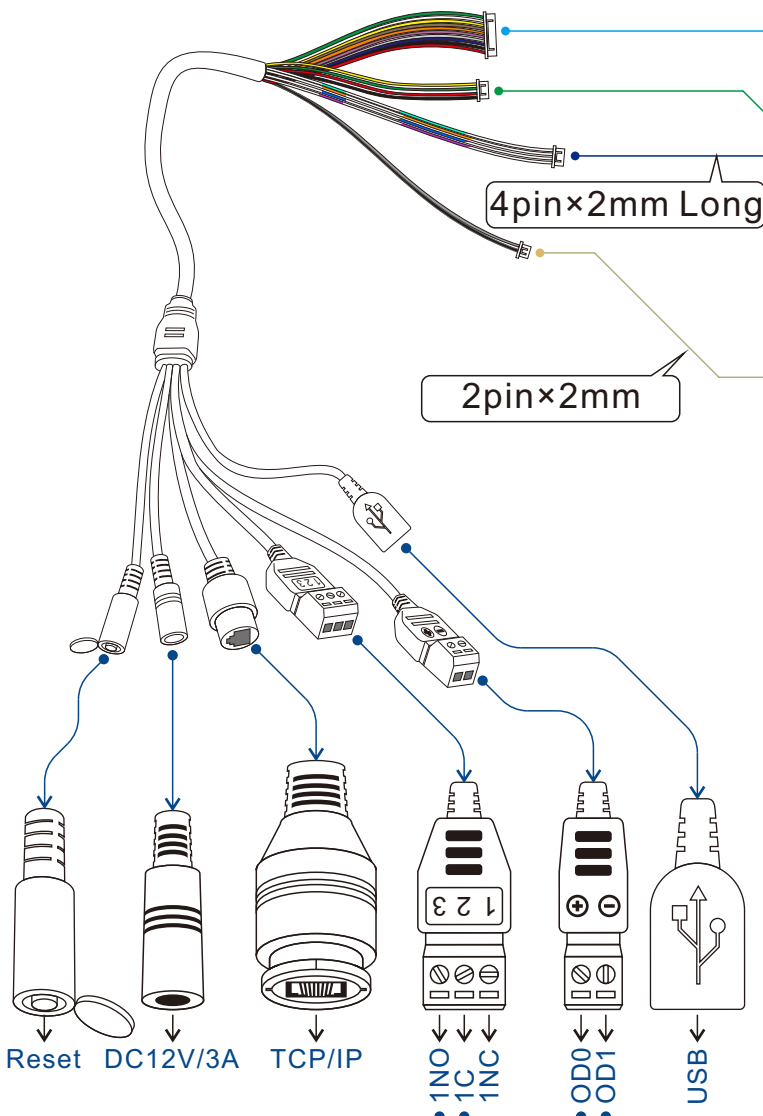
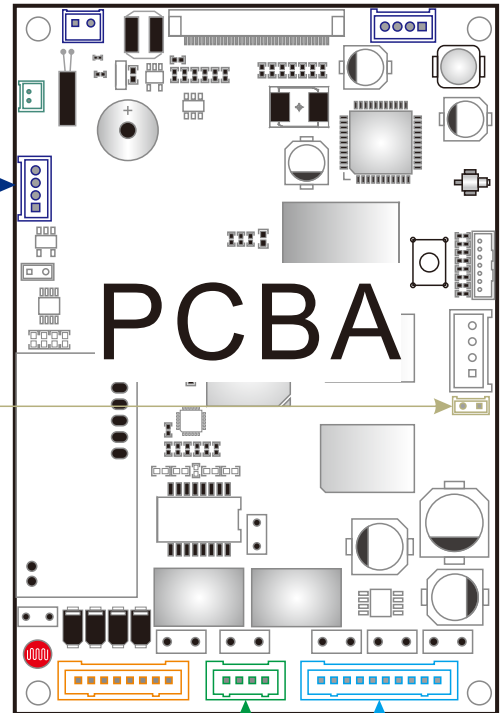


Wiring Diagram (Turnstile)

Take model D as an example: the definition of the device lead-out cable



Wiring Diagram(Turnstile)



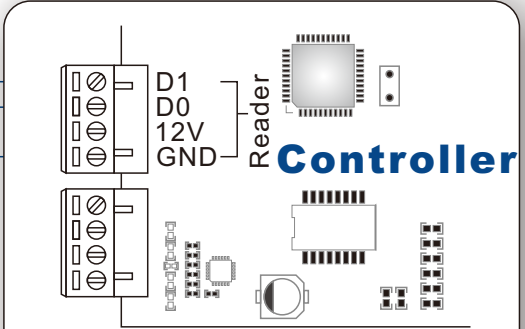
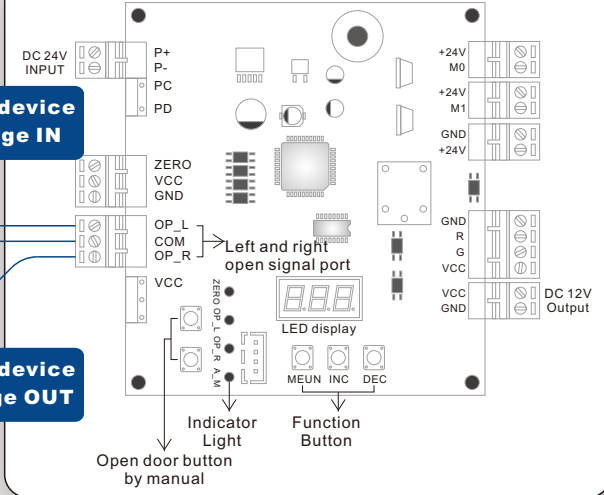
Correspondent relationship between cable and PCBA

Face device should have a common GND with controller.

Wiring method of face device to work with turnstile

Connect device to manage IN

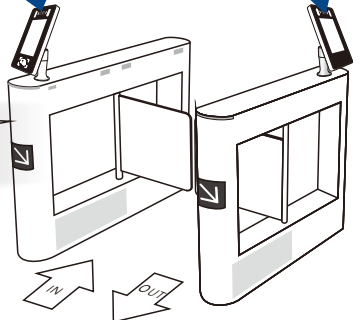
Connect device to manage OUT




Method for face device as reader to connect controller

Manage device for IN

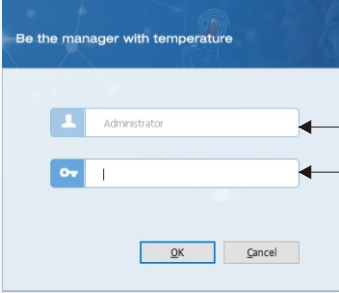
Manage device for OUT



Software Description



Software Icon



Be the manager with temperature

Administrator

OK Cancel

← User Name: administrator

← The default login password is empty

Login Software

HOME

Quick Setup
Users can quickly add devices, staff, fingerprint, face and other identity information according to the steps, and finally synchronize the data to the devices.

1

Add Device

User can quickly search device, modify IP address and add device to the software.

2

Add Staff

User can quickly add staff, also add staff code, password and access granted information.

3

Access Granted

User can set accessible doors and time.

4

Sync Settings

User can synchronize data from software to devices, and the settings will take effect only after synchronization.

Click here to enter the setting interface


In the homepage, user can switch to different setting interface. Just 4 steps to complete settings.

Record query, attendance management, modify login password at here.

Query Record Attendance Add More Settings

Enter Home page

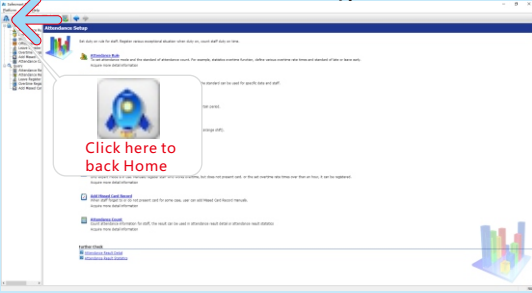
Information Query



Acquire All Device Records

Access records, alarm records, attendance details and other information queries, and export an Excel file.

Attendance Management



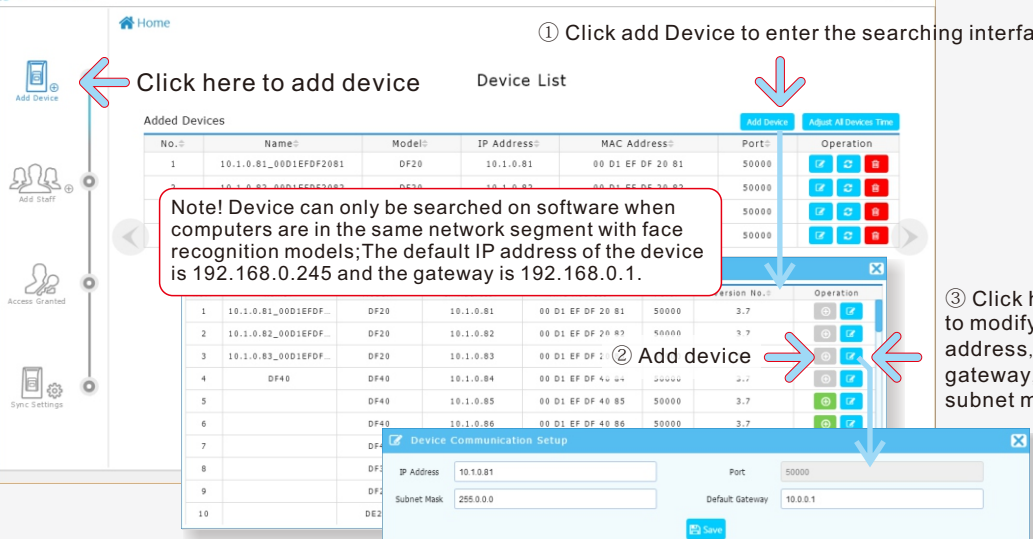
Click here to back Home

Time attendance management can realize working hours setting, shift, overtime register, leave register, add missed card record, attendance count and other functions

Click here to add device

① Click add Device to enter the searching interface.

1. Add Device



Device List

No.	Name	Model	IP Address	MAC Address	Port	Operation
1	10.1.0.81_00D1EFDF2081	DF20	10.1.0.81	00 D1 EF DF 20 81	50000	[Add] [Refresh] [Delete]
2	10.1.0.82_00D1EFDF2082	DF20	10.1.0.82	00 D1 EF DF 20 82	50000	[Add] [Refresh] [Delete]
3	10.1.0.83_00D1EFDF2083	DF20	10.1.0.83	00 D1 EF DF 20 83	50000	[Add] [Refresh] [Delete]
4	10.1.0.84_00D1EFDF2084	DF40	10.1.0.84	00 D1 EF DF 40 84	50000	[Add] [Refresh] [Delete]
5	10.1.0.85_00D1EFDF4085	DF40	10.1.0.85	00 D1 EF DF 40 85	50000	[Add] [Refresh] [Delete]
6	10.1.0.86_00D1EFDF4086	DF40	10.1.0.86	00 D1 EF DF 40 86	50000	[Add] [Refresh] [Delete]
7						
8						
9						
10						

Note! Device can only be searched on software when computers are in the same network segment with face recognition models; The default IP address of the device is 192.168.0.245 and the gateway is 192.168.0.1.

② Add device

Device Communication Setup

IP Address: Port:

Subnet Mask: Default Gateway:

Save

③ Click here to modify IP address, gateway, subnet mask

1. Add Device

2. Staff Management

1. Add Device

2. Staff Management

3. Staff Settings

4. Sync Settings

1 Add Staff

2 Click here to enter Staff Management interface

3 Click [icon] to select the device to collect face

4 Click [icon] to take photo for employee

4 Click [icon] to add employee face photo on PC

Attention! Staff photos are not face photos

2 Set staff information and save.

Basic Information

Authentication Information

Password, card, print, face

1 Select the door to set

2 Click it to enter staff list and select staff to access the door.

3 Select staff who can access

Set access time

After set Holiday, no access in holidays except administrator, and door normal open mode setup is invalid

Access Granted

1 Click here to synchronize software settings to device

2 Setting is done, start to use

Click here to enter the sync settings interface

Sync Settings

Task Report

Other Settings

The setting of the holiday will affect the access time of the staff and door normal open time. In the holiday, no access except administrator. In the holiday, even if the door normal open is set, the door will not open normally.

The setting of the access time will affect the access time of the staff and door normal open time. Each door is set to a different access time, and only the administrator can access during the non-access time. The door will open normally during the access time. There are three modes for door normal open.

Terms Explanation

Administrator: There is Staff Type in staff attributes. Administrators can access any door within 24 hours. He is no need to set it in the access granted. Staff. It is need to specify which door they can access in the access granted, the door access time and holiday schedule. Access is available during the specified time and non-holiday.

Latch Mode: When using the bolt mode, it means that door can open or close by valid card (granted), and the door does not switch the state automatically. For example, if the door is open now, swiping the valid card will close the door; if the door is closed now, swiping the valid card will open the door; if the card is not swiped, the door will not close or open automatically.

Keep Opening After Valid Access: In order to keep the door in the normally open state for a certain period, and does not trigger the door magnetic alarm, we need to set a door opening weekly schedule to specify the time for the door keeps open, but during the time, the door will be not opened automatically. Door will return normal open after a valid door opening action is triggered. The door will close automatically after the end of the period.

Normal Open Automatically: The normal open automatically mode is same as Keep Opening After Valid Access, and the door will open normally during the period specified in week schedule, but the difference is that the Normal Open Automatically does not need a valid door opening triggering. When the set time arrival, the door will be opened automatically and keep open.

Import and export in batch

Requirements for pictures:
 Using a person's name as the picture name can automatically generate the name; the picture size is a maximum of 1024 * 768px and a minimum of 320 * 240. Do not exceed this size range; Face should occupy more than 70% of the area of the picture; do not have multiple faces on the picture; The picture is normally exposed and the background is as single as possible; a front-face photo without cover is required. Meeting these requirements will result in more accurate recognition and a higher success rate to import.

Other Scenes



Apartment Villa



Door Post Installation

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For More Information

