



Thermo scanner with facial recognition

Model: DEF-TSV2



Types

It can be used in public service and management projects such as office areas, hotels, aisle gates, office buildings, schools, shopping malls, shops, communities, construction sites and other places that require face access

Product Features

1. Wide dynamic binocular live anti-counterfeiting, completely solve the deception of various photos on various carriers;
2. Support LED intelligent fill light;
3. Support serial port, Wiegand 26, 34 output, output content support configuration;
4. Real-time temperature monitoring, Body temperature tolerance range is accurate to 0.3, Body temperature detection distance is 0.5-1 meters;
5. Wide dynamic binocular live anti-counterfeiting, completely solve the deception of various photos on various carriers:
 - (a) Cloud platform device supports storing 50,000 face photos at the same time (Photo size is less than 400KB); 1 million identification records(0.45KB); 20,000 pieces live snapshot photos;
 - (b) LAN device supports simultaneous storage of 20,000 pieces face photos(The photo size is calculated according to 100KB), 1 million identification records(Contains the most recent 10,000 pieces live snapshot photos).

Algorithm Brand: MEGVII

- 1.1:N Face recognition, face library supports 20,000 pieces face photos, Top1 hit rate is 99.99%;
- 2.1:1 The accuracy of face and ID comparison is over 99%;
3. Fast recognition:
 - (a) Face tracking and detection takes about 20ms;
 - (b) Face feature extraction takes about 200ms;
 - (c) Live detection face comparison takes 0.2ms;
 - (d) Feature comparison takes 0.5ms;(10,000 pieces of face photos library, multiple identification and take the average value;
4. Support stranger detection, stranger level can be configured;
5. Support face recognition and on-site photo storage during stranger detection;
6. Support HTTP interface docking;
7. Support public network and local area network deployment;

- 8.Support screen display content configuration;
- 9.Support identification distance configuration.

Product Specification Table

| | | |
|---------------|-----------------------------------|--|
| Product model | category | |
| Camera | resolution | 200 W |
| | type | RGB +infrared |
| | aperture | 4.0 m m |
| | focal length | 0.2 m |
| | white balance | automatic |
| Screen | size | 8 inches,full view IPS LCD screen |
| | resolution | 1280*800, lightness 400cd |
| Processor | CPU | 4 nuclear,RK3288 |
| RAM | DDR3 | 4G B |
| ISP | Image Processing | Built-in dual ISP |
| Local storage | TF card | 32GB |
| Accessories | Fill light | Infrared、 LED light |
| | Card reader module (Set aside) | IC/ID Card reader, ID card reader Thermal imaging temperature detection module |
| | Network module | Support wired,2.4GWIFI,4G network card |

| | | |
|--------------------|---------------------------------|--|
| Interface | Audio | 1 channel audio line out |
| | USB interface | 2 USB 2.0 micro |
| | Serial port 232 | 2 RS232interface,1 WG input, 1 WG output |
| | Wiegand interface | 2.5mmX2PIN |
| | Reset interface | Side holes, external buttons |
| | OTG interface | 1 |
| Function | Use local offline | Local 20,000 face library |
| | Face detection | Local 20,000 face library |
| | 1:N Face detection | Supports one in 10,000 misrecognition rate, 99% pass |
| | 1:1 | Support optional credit card module,ID card module can realize 1: 1 face comparison |
| | Stranger detection | Support |
| | Recognition distance adjustment | Support |
| | Remote upgrade | Support |
| | Device interface | Equipment management, authority management, personnel / photo management, record query, etc. |
| General parameters | Protection level | Use in semi-outdoor or all-outdoor |
| | Power supply | DC1 2V |
| | Operating | -10°C– 60°C |
| | Working humidity | 10%–90% |
| | Static electricity | 4K/8K |
| | Battery radiation | No frequency over standard |
| | Power consumption | 5W MAX |
| | Equipment weight | About 1.6 KG |
| | Equipment size | 373.7mm* 135mm*85 mm |

Product Specification Table

| Module | function | Introduction |
|----------------------|------------------------|---|
| Display interface | Boot interface | neutral (customizable) |
| | Verification interface | 1. Including display punching in prompt, network signal (whether or not to close the network), time, date, weekday; 2.Pop-up prompts for abnormal network connections, notification displays, ID card information, verification success or failure prompts, can be customized; 3.Version number, number of people, number of pictures |
| | Menu interface | Menu style and human-computer interaction, how to enter other modules, management, etc. |
| User Management | User added | Add people to local apps |
| | User delete | Delete people on local apps |
| Equipment management | Unlocking rules | Door opening time after verification |
| | Wigan/RS232 | Wiegand format 26/34, RS232 |
| | Language settings | Simplified Chinese |
| | Network settings | Wired,wifi, 4G Module |
| | Time setting | Time, date, time zone, setting (manual setting or server synchronization) |
| | Voice settings | 0-10 (0 is silent, the default is 5) |
| | Brightness setting | 1-10 (the default is 5) |
| About this machine | Date of | Equipment plant date |
| | Serial number | Devise serial number |
| | Manufacturer | Manufacturer name |
| | Machine type | Device model |
| Other | Other functions | Customizable |

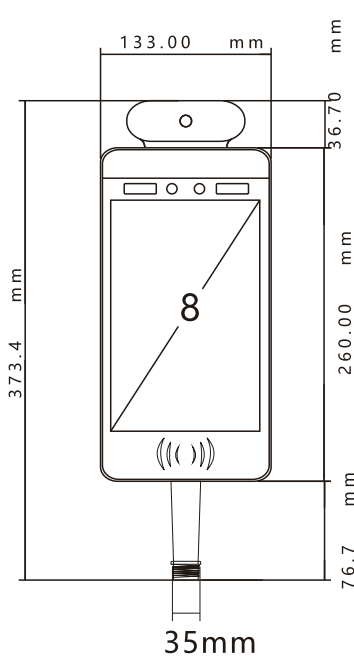
Dimensions



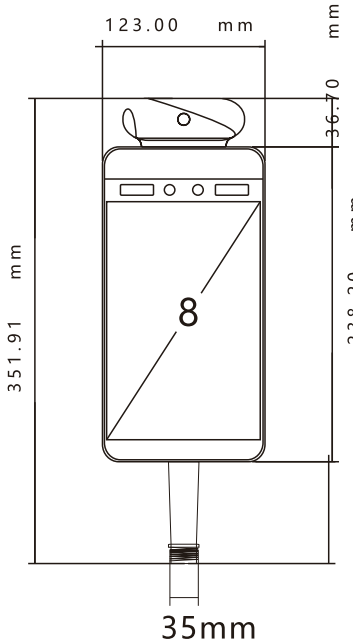
Swipe body temperature



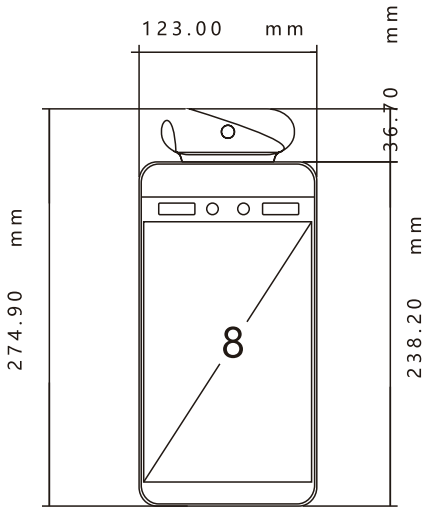
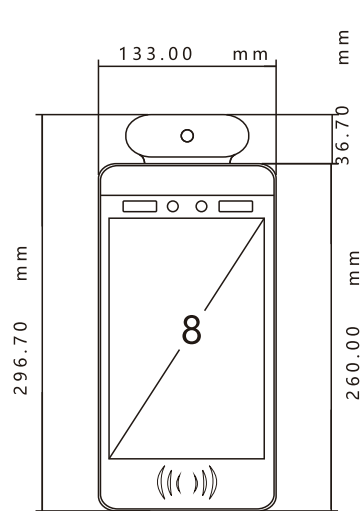
Standard body temperature



Swipe body temperature



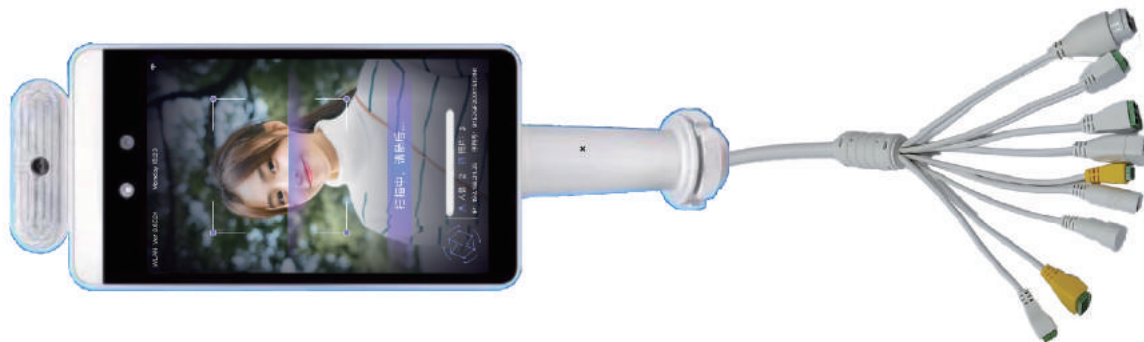
Standard body temperature



Installation Notes

A Instructions for appearance

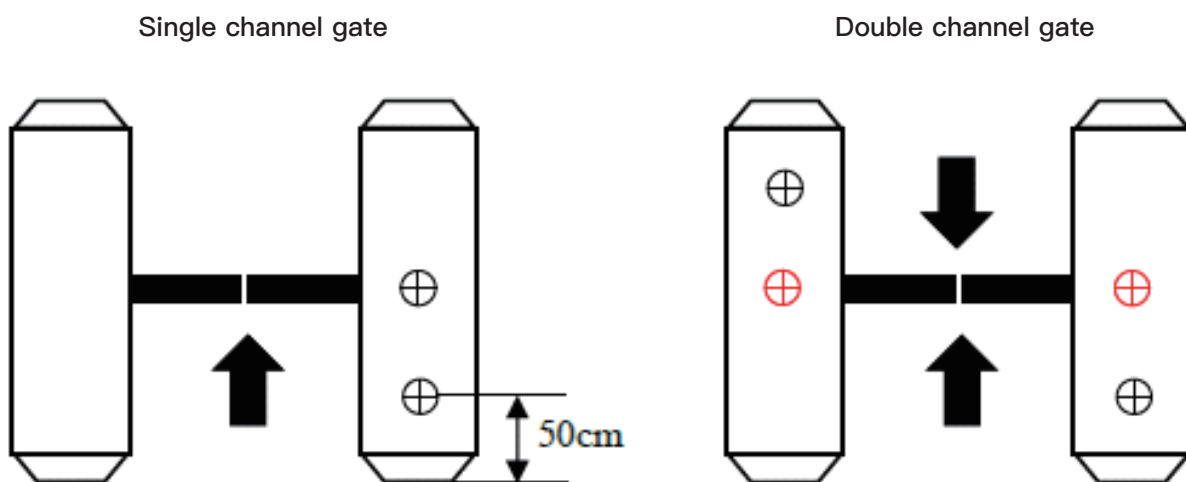
The schematic diagram of the gate head is shown in the figure below.



Note: If the cable interface is different from the illustration, please refer to the next page for cable supplement (subject to the actual product and wiring diagram)

B Instructions for appearance

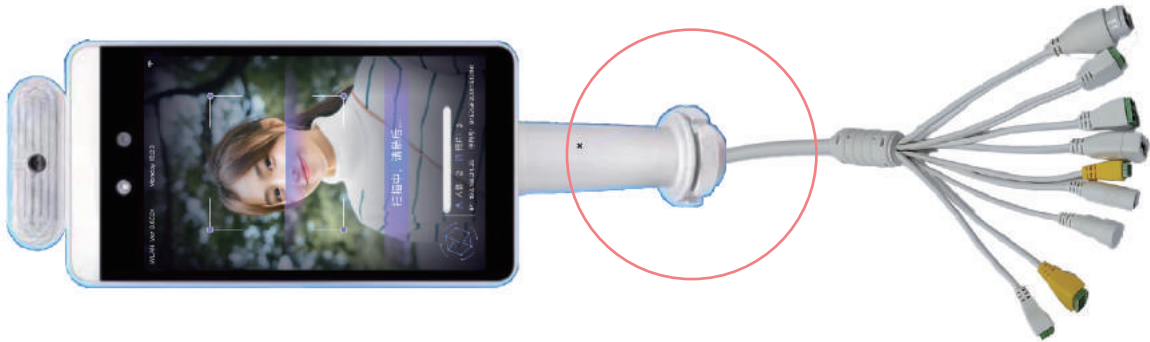
1. According to the requirements of the installation site, a hole with a diameter of 35 mm is opened in the middle or front side of the space position on the gate, As shown in the figure, ⊕ is the recommended opening location



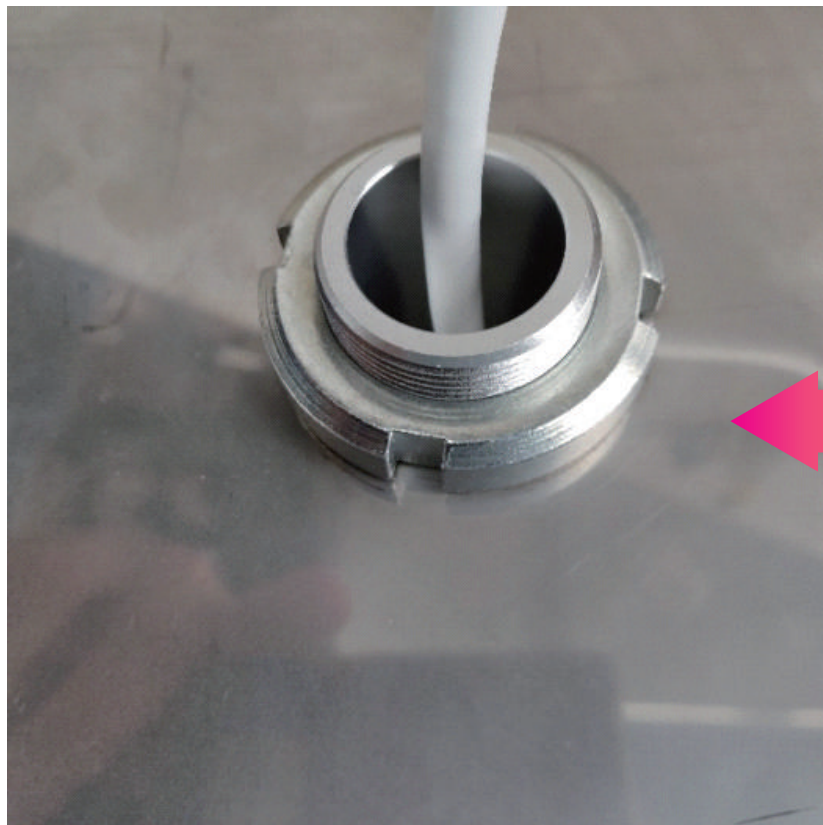
Note: The position of the hole should be based on the actual application scenario and the type of gate, 35mm is only a reference value

2. Unscrew the nut at the bottom of the gate head of the gate, pass the cable through the nut, and remove the nut, as the picture shown

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, align the nut to the thread and tighten, as shown in the figure



4. Connect the power and network cable, 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 head to the proper recognition angle.

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.

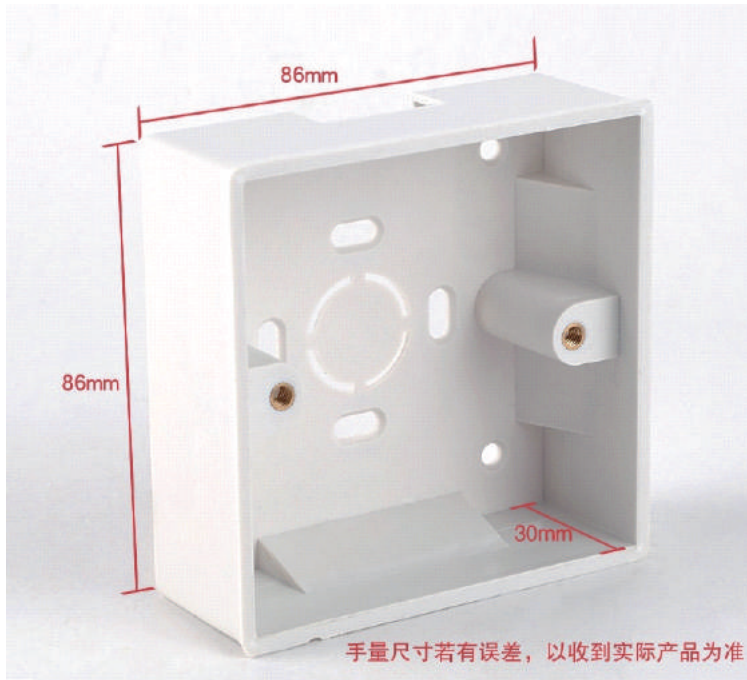


2. Place the desktop machine on the desktop, and place the face device on the two "L" card positions above the bracket, and adjust the angle; it is suitable for visitors at the front desk.

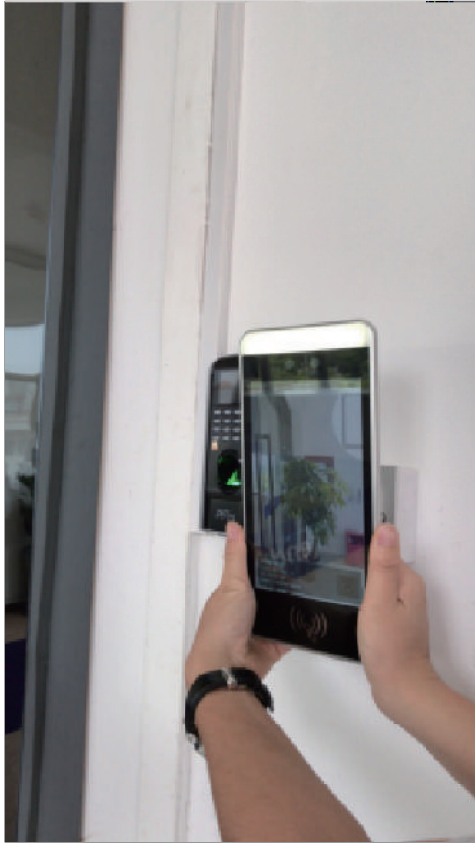


Wall-mounted

1. spiral: Place the white 86 switch bottom box on the wall at 1400mm, the specific height depends on the actual use, use a pen to mark the four corners of the bottom box, Drill four holes with a hammer drill and place the rubber plug in the hole, Fix the bottom box with screws, and then make the cable, this method is exposed; If built-in concealed installation is required, draw a hole in the four sides of the size of the bottom box drawn on the wall with an impact drill. It is estimated that cement is inserted inside. After the cement is completely dry, fix the device to the bottom box with screws. as the picture shows!



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



2. Wall mounted: Remove the stainless steel wall hanging from the face device, place the stainless steel plate on the wall at an appropriate height, and mark it with a pen, Four holes are drilled in the impact drill, the rubber plug is placed in the hole, Use self-tapping screws to fix the stainless steel plate to the wall first (if the tail wire comes out of the back of the bottom box, you need to make a proper hole in the wall to facilitate wiring; If the tail wire comes out from the bottom, you only need to fix and run the wire with a large white plastic wire channel, as shown!



Wall-mounted diagram

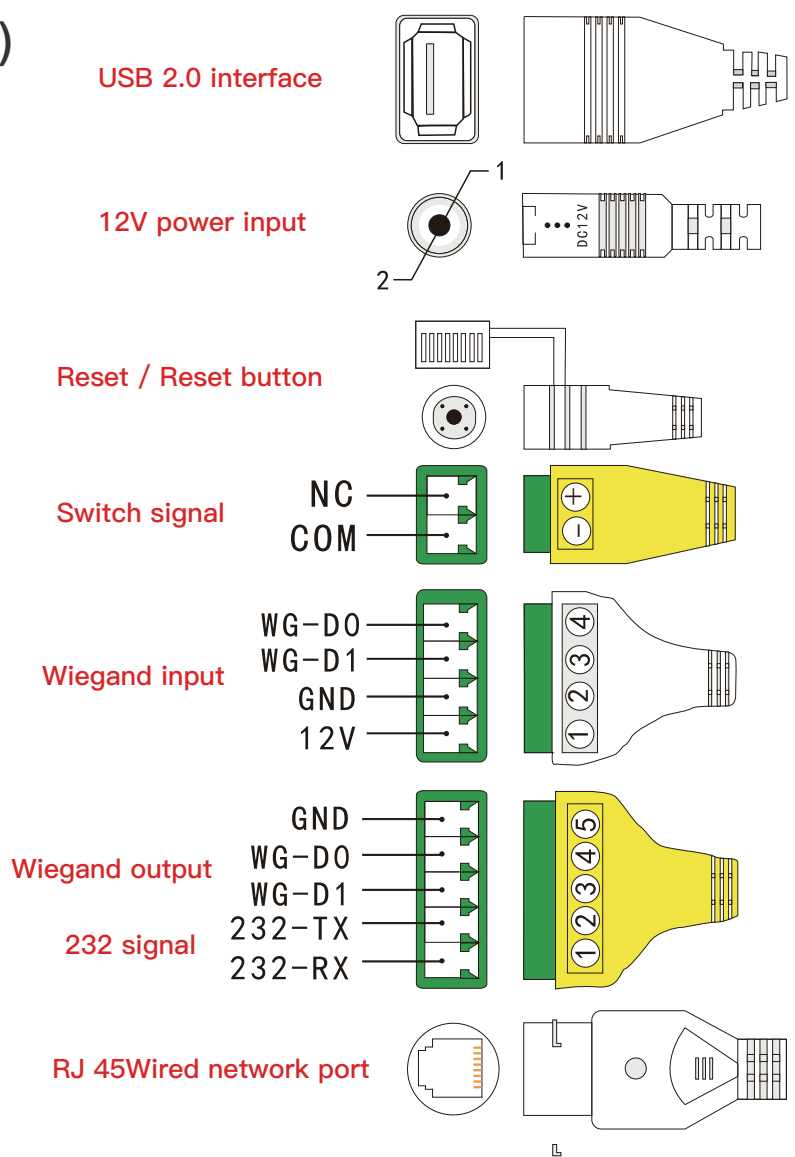


Cable wiring diagram, as follows

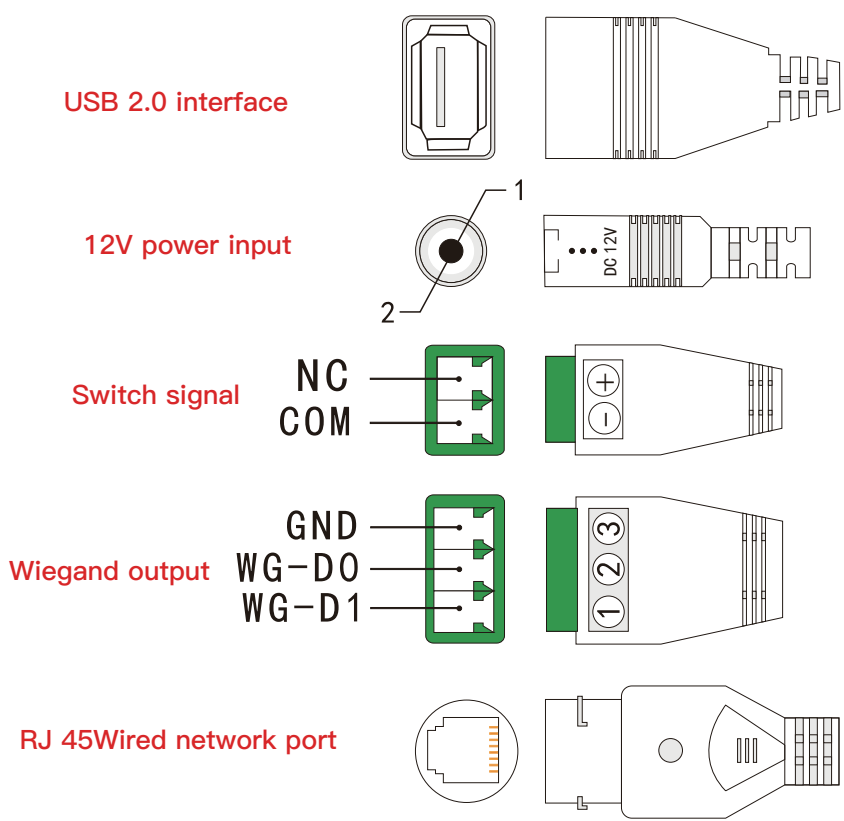
| | | | | | | | |
|---------------|-------|-------|---|----------------|--------|-------|---|
| Switch signal | NO | ————— | ⊕ | Wiegand output | GND | ————— | ⑤ |
| | COM | ————— | ⊖ | | WG-D0 | ————— | ④ |
| Wiegand input | WG-D0 | ————— | ④ | 232 signal | WG-D1 | ————— | ③ |
| | WG-D1 | ————— | ③ | | 232-TX | ————— | ② |
| | GND | ————— | ② | | 232-RX | ————— | ① |
| | 12V | ————— | ① | | | | |

8-inch face recognition tailline description

Gate head and tail line(7)



Wall-mounted tails (5)





Face recognition terminal

Note: All interpretation rights of pictures and text description belong to our company.

DEFIRO MEDIA PRODUCTION, BLD. PIPERA NR. 1/VII CUI: RO39852474, REG.COM.
J23/4601/2018, LOCALITATEA VOLUNTARI, JUDETUL ILFOV, ROMANIA, COD POSTAL:
077190, EMAIL: CONTACT@DEFIRO.COM
