



HANKUN YTSTX82 Smart Facial Recognition Terminal User Guide

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YTSTX82 Smart Facial Recognition Terminal User Guide

Disclaimer

The company has always recognized and respected the fact that facial recognition technology should be protected with a cautious attitude in that it involves privacy information such as name, portrait and so on. We prompt users to pay attention that according to relevant laws and regulations, users should obtain authorization of relevant individuals before using the product to collect the privacy information of the employees. Users should properly keep the collected privacy information, and must not disclose or improperly use it. Moreover, users shall not use the product to do any activity that infringes the civil rights of other subjects. If users violate these statutory obligations, the company shall be exempt from any legal liability. We hereby declare that the company will not collect any privacy information by this product in any way, and we will not obtain or store any private information. The company shall not bear any liabilities for users' use of this product. The company has the right to claim all compensation from users if we were held accountable by the third party for users using our product.

- This manual will be updated at any time without prior notice. In the event of any doubt or dispute, the company reserves the right of final interpretation.
- This manual is for reference only. The actual product may be different from this manual, please prevail in kind.
- The assemblies, components, and accessories mentioned in this manual are for illustration only, and do not represent the configuration of the model you bought.

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Safety instructions

Before connecting and operating the device, please observe the following instructions. Warning Failing to follow these instructions could lead to personal injury or property damage.

Installation

- Do not install the product in places where it may be exposed to direct sunlight, dust, soot, or in damp areas, otherwise, a fire or electric shock may occur.
- Do not install the product near any heat source (a working electric heater), otherwise, a fire or electric shock may occur due to overheating.
- Do not install the product near the magnetic field (for example, some highly magnetic objects such as a magnet, TV, especially CRT monitor, or speaker) as it may cause product malfunction.
- Keep liquids away from the product, otherwise, a damp environment may lead to product damage or electric shock.
- Keep the product away from electromagnetic interference, otherwise, it may lead to product damage or electric shock.
- The user should not install or repair the product independently as improper operations could result in a fire, electric shock, or personal injury. We shall not assume any responsibility (free after-sales service) for problems caused by unauthorized installation or maintenance.
- If the product is installed outdoors, being completely exposed, it is recommended to install the product together with the enclosure.
- Do not expose the power supply cable in a place with a huge visitor flow, otherwise, it may cause product damage or personal injury.
- When installing a number of devices, please leave enough space between devices, otherwise, the RF performance of devices may be compromised.

Operation

- Keep liquids such as water, beverages, or chemicals away from the product, otherwise, it may result in fire, electric shock, or product damage.
- Do not drop the product or exert an impact on the product.
- Do not press the button hard or use sharp tools.
- Please clean the product with a soft and dry cloth and avoid using water, benzene, or alcohol.

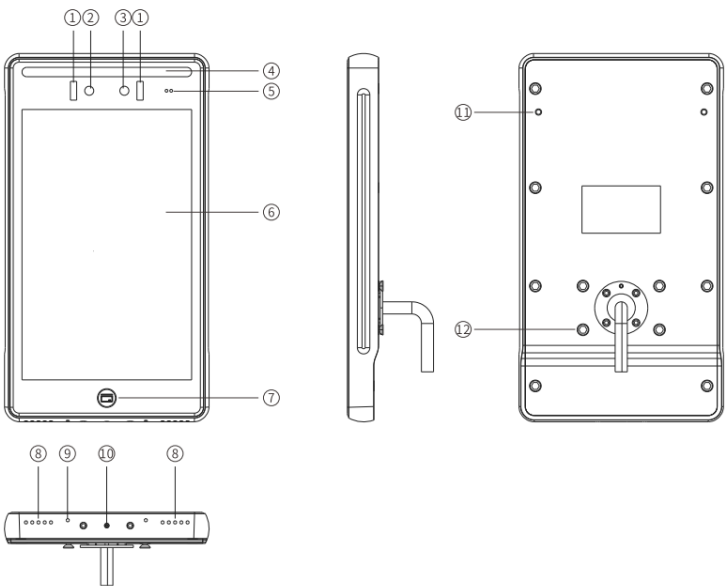
- Please clean the camera with a lens cleaning cloth. Do not touch the camera with fingers or shape objects, which may cause damage to the camera lens.

Package contents

Contents	Quantity
Device	1
Bracket for Wall-mounting	1
Power Adapter	1
Fixing screws	1
Quick guide	1

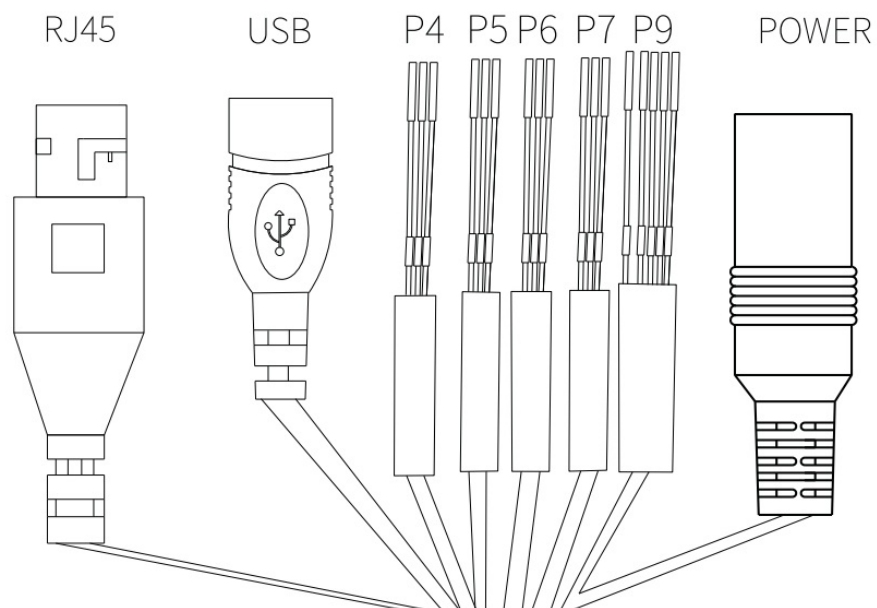
Note: Package contents might vary among different regions. Please contact your local dealer for details.

Components



Serial number	Explanation
1	Infrared fill light
2	RGB camera
3	Infrared camera
4	White light fill light
5	Distance detection
6	Multi-point capacitive touch screen
7	Card reader
8	Speaker
9	Microphone
10	Reset button
11	Fixing screw holes for accessories
12	Fixing screw holes for wall mounting, or turnstiles

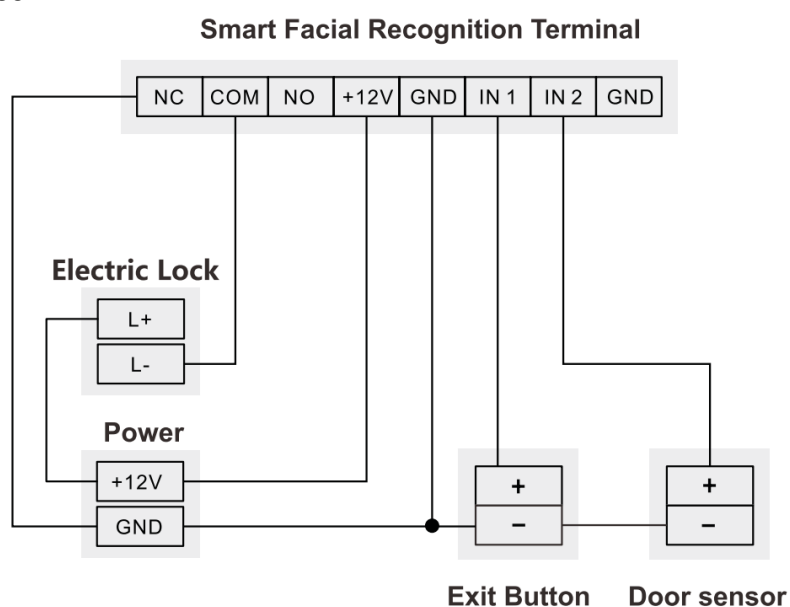
Interface



Interface	Description
RJ 45	10/100 Mbps
USB	USB 2.0
P4	Relay (NC, COM, NO)
P5	Wiegand (D1, DO, GND
P6	RS485 (485A, 485B, GND)
P7	Serial port (GND, TXD, RXD)
P9	Dry contact &GPIO (RECOVER, GPIO, IN1, IN2, GND)
POWER	12V DC Input

Wiring instructions

Wiring with Electric Lock

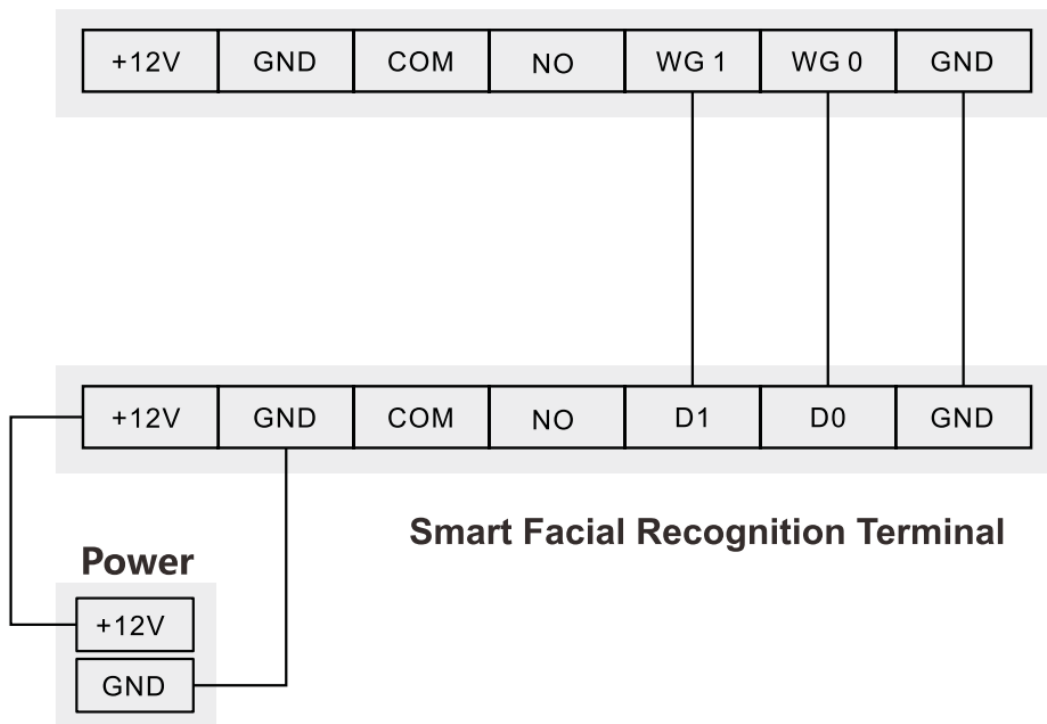


Note: This device acts as an independent access controller for docking electric locks and exit buttons, please make sure that the power of the 12V power supply meets the requirement of the device and electric lock.

Wiring instructions

Wiring with access control

AC Controller



Note :

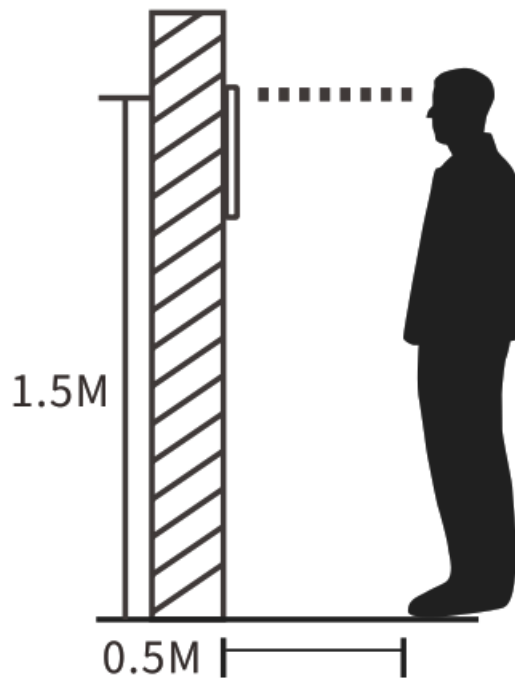
- Normal open (NO + COM): Contacts in the open state under normal conditions (without power),
- Normal close (NC + COM): Contacts in the close state under normal conditions (without power),
- Please use the power supply in the package.

Installation instruction

Environment requirement

In the installation and use of this product, please strictly follow all local electrical regulations. equipment is not working properly, please do not disassemble and repair it by yourself, otherwise, it will affect the equipment warranty. During installation and use, extreme or extreme environments such as extremely high temperature (or low temperature), high humidity, high backlight, vibration, radiation, and chemical corrosion must be avoided.


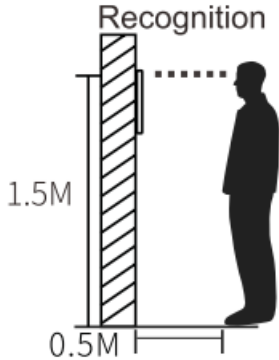

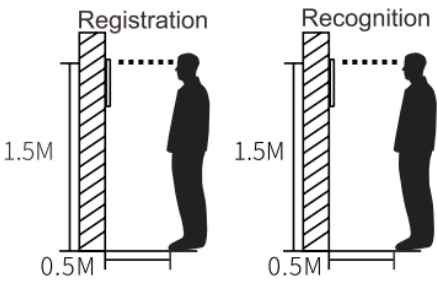

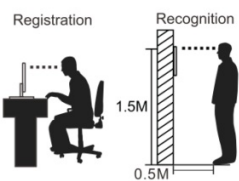
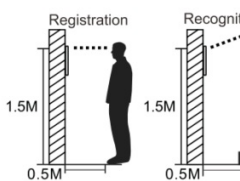
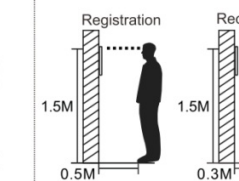
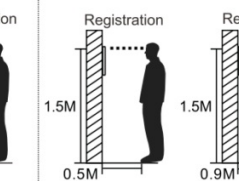
- Lighting conditions: We recommend installation in an indoor or semi-outdoor environment, ensuring a well-lit environment, avoiding direct sunlight or low light affecting the recognition speed, to avoid facing the glass doors or glass walls.
- Network: It is recommended to install the network open environment, to avoid the bad effects on network identification speed and accuracy.



Location

The recommended installation height of the device is 150cm (camera height).

Installation instruction

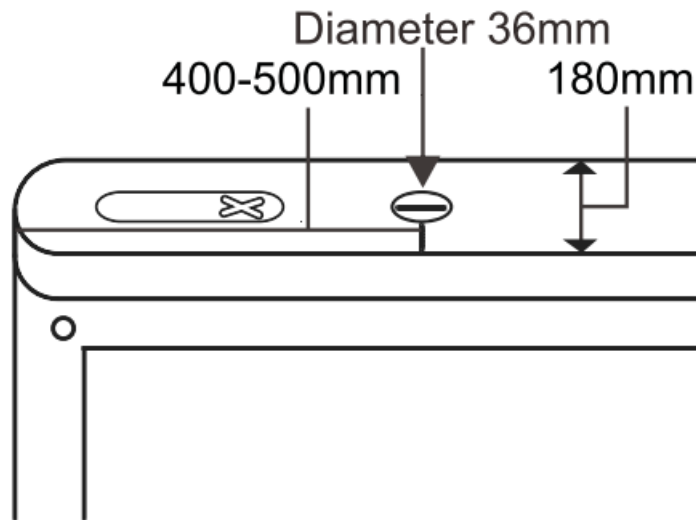
 	<p>The recommended installation height (height of cameras) is 1.5m which can cover a human height of 1.55m – 1.85m when the distance between the person and the panel is 0.5m. The best recognition distance is 50cm to 80cm from the device, as shown in the below image. It can be adjusted according to the effect of the face image acquired by the device. When the face image is large, it can move backward properly; when the face image is small, it can move forward properly.</p>
 	<p>When using the device for registration and identification, the installation location of the device must remain unchanged. If you really need to move the device, you must keep the installation height consistent. If it is inconsistent, it may affect the recognition effect. It is recommended that the distance between the face and the machine at the time of registration is 0.5-0.8 meters.</p>
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   <p>Inconsistent posture</p> </div> <div style="text-align: center;">  <p>Different height</p> </div> <div style="text-align: center;">  <p>Too close</p> </div> <div style="text-align: center;">  <p>Too far</p> </div> </div>	

Installation instruction

Installation-Gate instruction

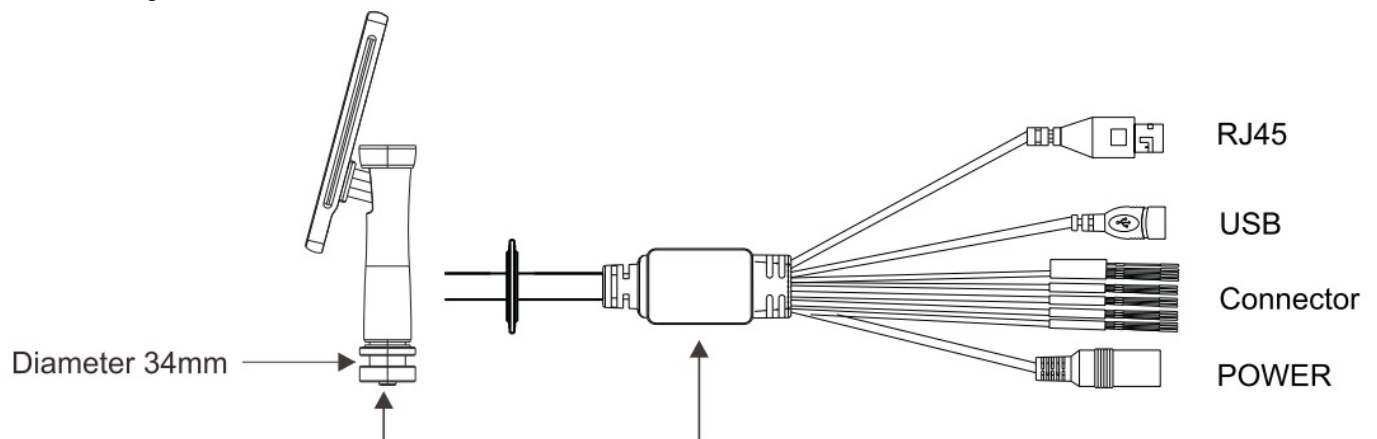
Hole drill

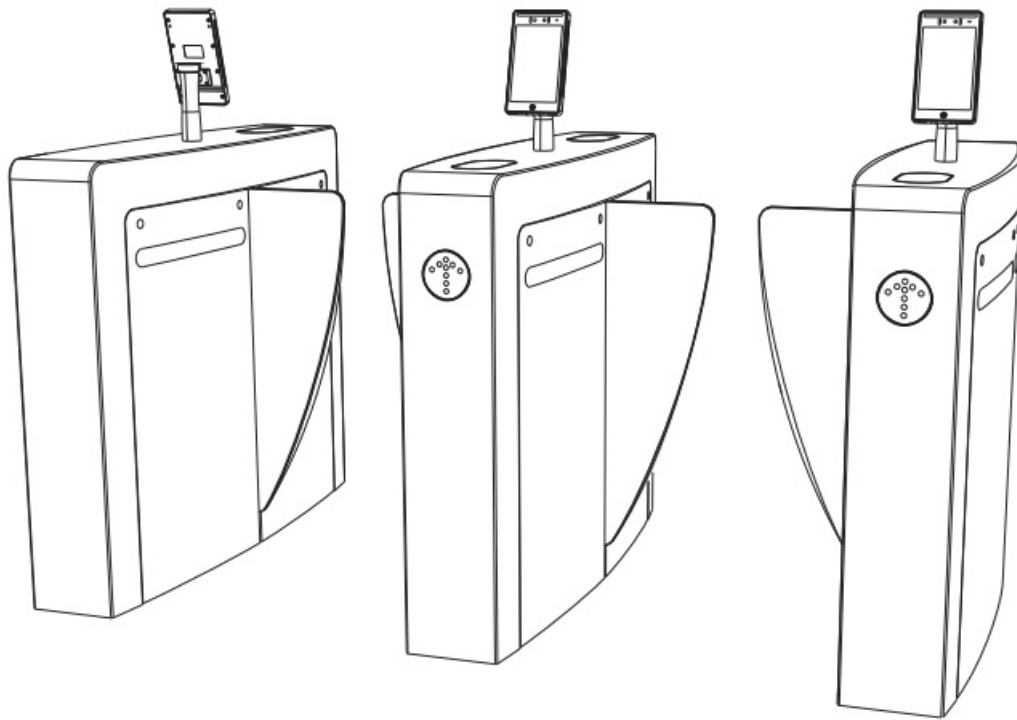
Drill holes with 36mm diameter in the proper position of the turnstile according to the drawing below. The recommended distance is 40 cm to avoid the card swiping and scanning area. The width of the gate is not less than 180mm.



Wiring Diagram

Pass the wire on the equipment through the bracket, fix the connecting piece and the host with screws, tighten the device and gate with nuts, and connect the interface cable.





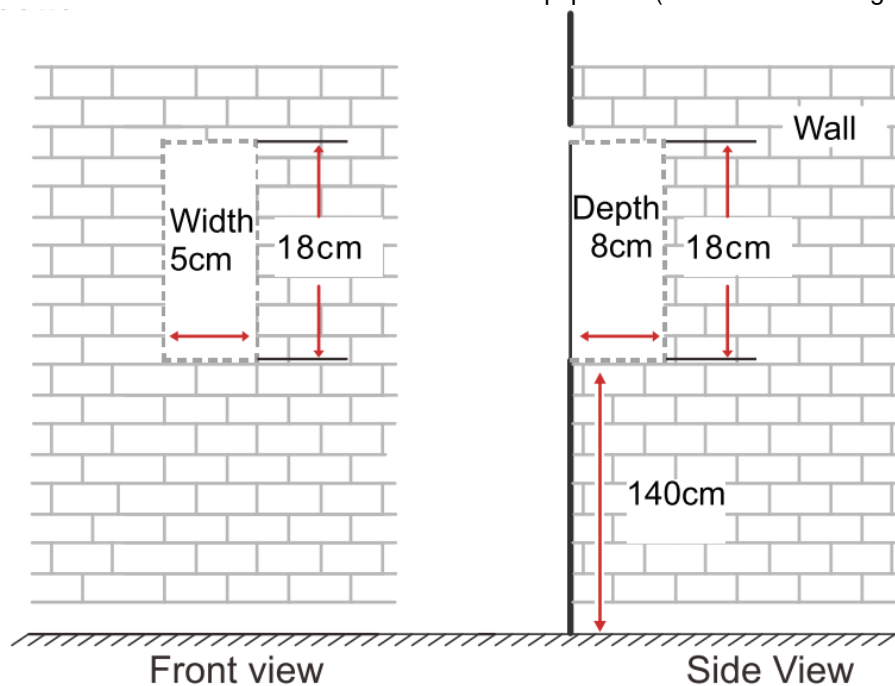
Installation sample

Installation instruction

Installation-Wall mounting

Install the device in the right place (the height of the cameras is 150cm). If there is no cassettes, open a square empty slot with the size of 5cm*18cm*8cm (W*H*D) at a distance of 140cm from the ground. Fix the wall-mounting bracket in the middle of the slot. Connect the cable (refer to "Wiring Diagram"). And fix the device with screws on the bottom..

3 sets of wires need to be embedded in advance at the host equipment (reserved wire length is 10cm):

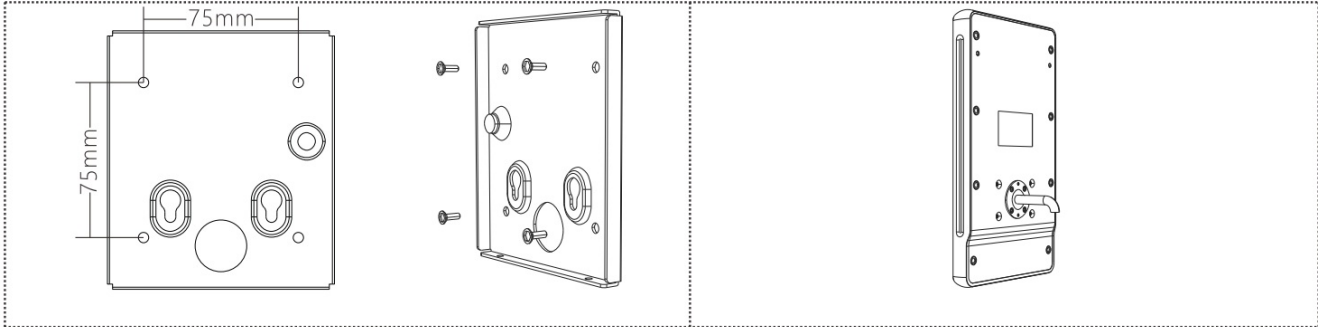
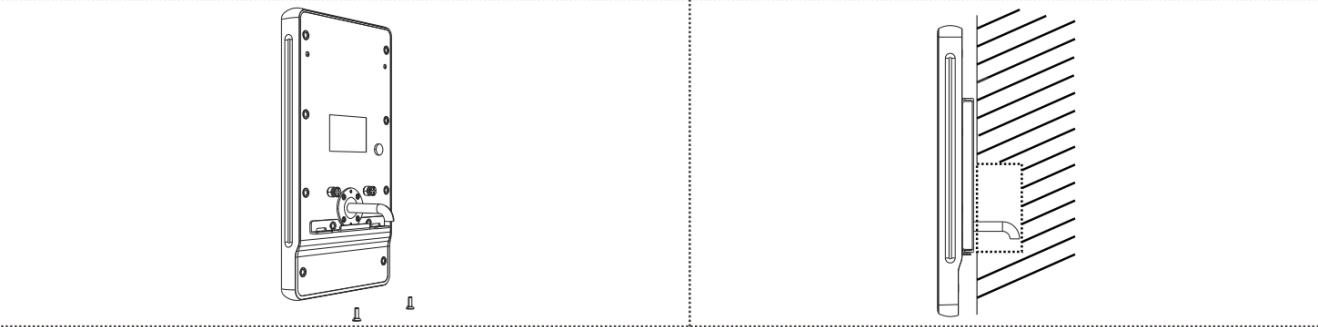


- 12V power cable RW2 x 1.0 standard and above, one end is at the host device, and the other end is pulled to the original access control dedicated power supply or the 220V power supply 3 hole socket on the top of the

sliding door, When installing, connect to the 12V end of the factory-supplied 12V1.8A power adapter. The 220V power cable of the adapter is directly plugged into the 220V power supply 3-hole socket.

- Door opening control line RW2 x 0.5 standard and above, one end is at the host device, and the other end is pulled to the original access control dedicated power supply or the top controller of the sliding door, and connected to their door opening signal interface during installation.
- Cat5e network cable 8 x 0.5 oxygen-free copper standard and above, one end is at the host device, and the other end is pulled to the weak motor room switch, and connected to the Internet during installation. If it is difficult to increase the wired network, you can consider using wireless when the wireless network is stable.

Installation-Wall-mounting

	
1. Fixed. Fix the wall-mounting accessories to the wall with screws.	2. Wiring. Refer to the “Wiring Instructions” to connect the network cable, power cable, etc. to the device.
	
3. Adjustment. Tighten the accessories and fix screws on the device with screws, and adjust the wiring length until the device can be snapped into the wall-mounted accessories.	4. Lock tightly. Use screws to tighten the device from the main unit and the wall mount to complete the installation.

FCC ID: 2AXU6-YTSTX82

RF exposure statement

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.

FCC Warning

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.


NOTE 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Documents / Resources

	HANKUN YTSTX82 Smart Facial Recognition Terminal [pdf] User Guide YTSTX82, 2AXU6-YTSTX82, 2AXU6YTSTX82, YTSTX82 Smart Facial Recognition Terminal, YTSTX82, Smart Facial Recognition Terminal
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