

User Manual

Saturn-T1000 Pro

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English



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If there is any issue related to the product, please contact us.

ZKTeco Headquarters

Address ZKTeco Industrial Park, No. 32, Industrial Road,
Tangxia Town, Dongguan, China.

Phone +86 769 - 82109991

Fax +86 755 - 89602394

For business related queries, please write to us at: sales@zkteco.com.

To know more about our global branches, visit www.zkteco.com.

About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

About the Manual

This manual introduces the operations of **Saturn-T1000 Pro Tripod Turnstile**.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

Features and parameters with ★ are not available in all devices.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into Dangers and Cautions:

Dangers: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

Symbols

Convention	Description
	Dangers: Follow these safeguards to prevent serious injury or death.
	Cautions: Follow these precautions to prevent potential injury or material damage.



Dangers:

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The equipment must be connected to an earthed mains socket-outlet.
- Shock hazard! Disconnect all power sources before maintenance.
- Do not touch the bare metal contacts of the inlets after the circuit breaker is turned off. Electricity still exists.
- To prevent possible hearing damage, do not listen at high volume levels for long periods.
- All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.
- Please use the power adapter, which is provided by normal company. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.
- Please make sure that the power has been disconnected before you wire, install or dismantle the device.
- If the top caps should be open and the device should be powered on for maintenance, make sure:
 1. Power off the fan to prevent the operator from getting injured accidentally.
 2. Do not touch bare high-voltage components.
 3. Make sure the switch's wiring sequence is correct after maintenance.
- Please make sure that the power has been disconnected before you wire, install or dismantle the

device.

- If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the device yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)
- The Terminal PE of the switch should be connected to a ground wire.

**Cautions:**

- Instructions must be read before installation. Please follow these instructions carefully, incorrect installation could affect gate operation.
- When mounting and positioning this product please ensure the power cable is unplugged.
- The motor cover will need to be removed to mount the motor to the mounting plate. Electrical-related operation of the main unit can only be made by a licensed electrician.
- To prevent injury, this equipment must be securely attached to the floor/base of the turnstile in accordance with the installation instructions.
- Keep straight down when moving or using the equipment.
- Never place the equipment in an unstable location. The equipment may fall, causing serious personal injury or death.
- Cold-rolled SPCC steel may be corroded in some circumstances. You need to clean and care the device by using the stainless steel cleaner. It is suggested to clean the device every month.
- Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).
- Do not place the device in extremely hot (refer to the specification of the device for the detailed operating temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- The device cover for indoor use shall be kept from rain and moisture.
- Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).
- Do not aim the device at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- Please use the provided glove when open up the device cover, avoid direct contact with the device cover, because the acidic sweat of the fingers may erode the surface coating of the device cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the device cover, do not use alkaline detergents.
- Please keep all wrappers after unpack them for future use. In case of any failure occurred, you need to

return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and lead to additional costs.

- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.
- Biometric authentication products are not 100% applicable to anti-spoofing environments. If you require a higher security level, use multiple authentication modes.
- Do not stay in the lane when the device is rebooting.
- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
- SUITABLE FOR MOUNTING ON CONCRETE OR OTHER NON-COMBUSTIBLE SURFACE ONLY.
- The instructions shall require connection of the equipment protective earthing conductor to the installation protective earthing conductor.

Table of Contents

1	OVERVIEW.....	9
1.1	Key Features.....	9
1.2	Specification	10
1.2.1	Appearance	10
1.2.2	System Components	11
1.2.3	Technical Specifications	11
1.3	Mechanical System.....	13
1.4	Electronic Control System	13
1.5	Working Principle	14
1.6	Power-On Self-Test.....	14
1.7	Status of Traffic Indicator	15
2	AUTHENTICATION METHODS.....	16
2.1	Card Verification★	17
2.2	QR Code Verification★	17
2.3	Facial Verification★	18
3	CONTROL SYSTEM DESCRIPTION.....	20
3.1	Wiring Diagram.....	20
3.2	Motherboard Function Description.....	20
4	TROUBLESHOOTING.....	22
5	PRECAUTION.....	23
6	MAINTENANCE	24
6.1	Chassis Maintenance	24
6.2	Movement Maintenance.....	24
6.3	Power Supply Maintenance	24
7	PACKING LIST	25
	REVISION HISTORY	26

1 Overview

The Saturn-T1000 Pro full-automatic tripod turnstile features stable product performance and outstanding waterproofing effects, making it suitable for fully outdoor installation. The product housing is made of electrolytic plate baking paint material, combined with an integrally molded top cover, offering a compact and aesthetically pleasing appearance, rust resistance, and durability. The system adopts standard electrical interfaces externally and meets fire protection channel requirements. It is suitable for entrance/exit attendance, access control, and consumption management in enterprises and public institutions, as well as special channel management and control. It also meets ticket-checking channel management needs in places such as railway stations, ferry terminals, convention and exhibition centers, and swimming pools.



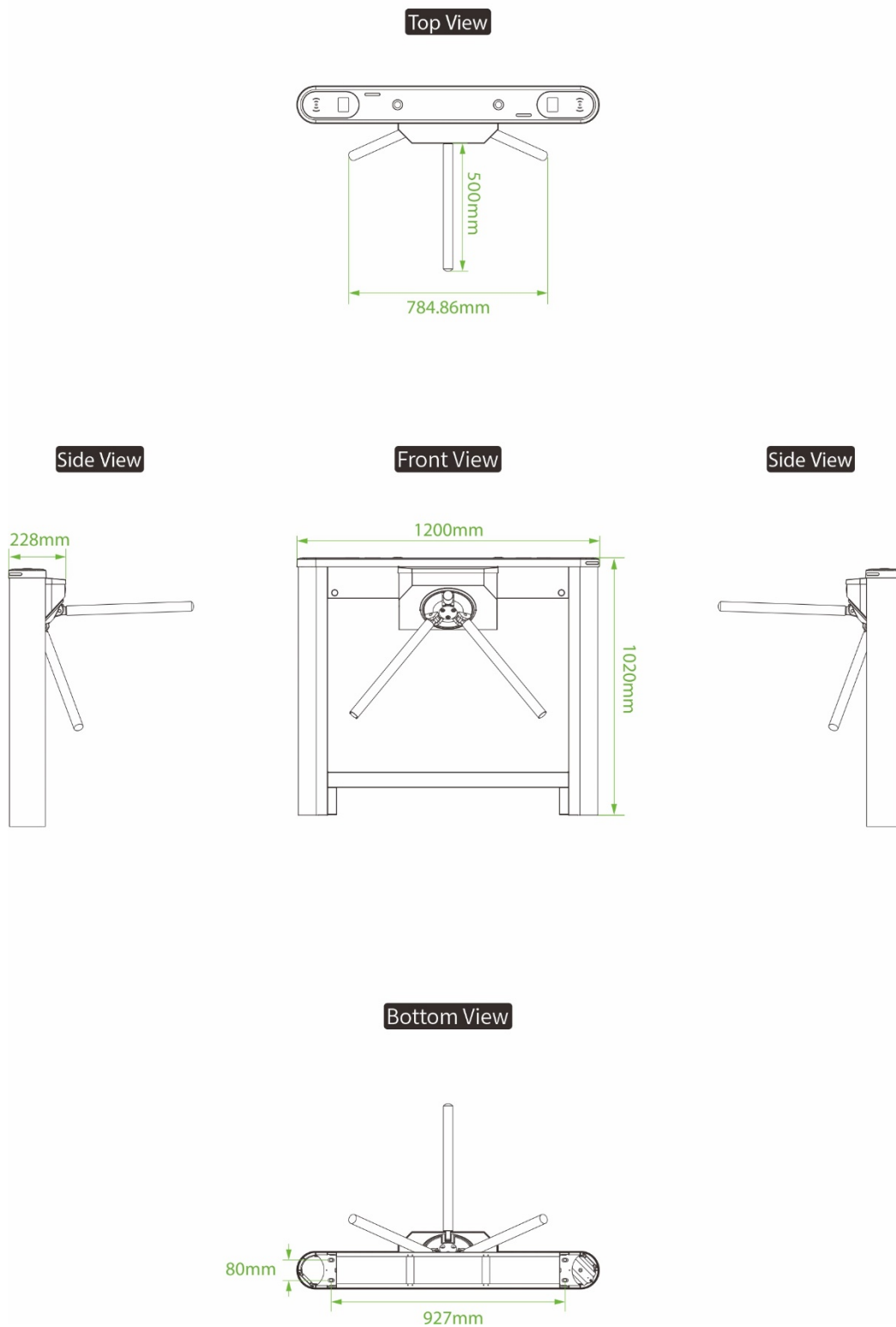
1.1 Key Features

- Full-automatic tripod turnstile mechanism with user-friendly passage indication – light touch for automatic passing.
- Reinforced waterproof design, IPX4 rating, suitable for outdoor use in open air.
- Equipped with an RS485 communication interface to support system integration.
- Modular construction for easy maintenance.
- Wired in accordance with international telecommunication standards; internal circuit wiring and layout are extremely neat.
- Features automatic drop-arm on power failure and automatic raise-arm on power recovery, plus complete anti-tailgating functionality.
- Integrates ZKTeco's hybrid biometric recognition technology, combining facial recognition, QR code scanning, card swiping and other verification methods to enhance security identification.
- Can connect to control signals from any external control device, buttons, or remote controls to achieve one-way or two-way controlled passage.
- Clear passage direction indication function, equipped with a standard three-color indicator light: blue in normal status, green during passage, red in abnormal status.
- Simple installation process.

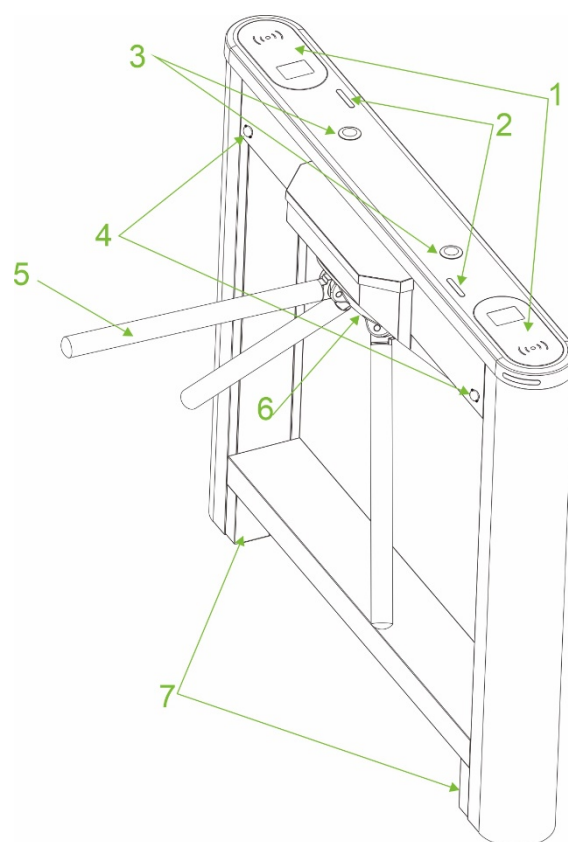
1.2 Specification

1.2.1 Appearance

Unit: mm



1.2.2 System Components



1. Authentication Units	2. Traffic Indicator
3. Facial Authentication Terminal Mounting Holes	4. LiDAR (optional)
5. Arm	6. Disk Wheel
7. Cover Plate	

1.2.3 Specifications

Model	Saturn-T1000 Pro
Audio Indicator	Internal Buzzer
Visual Indicator	LED Indicator Blue=Standby Green=Access Granted Red=Alarm/Error
LiDAR Sensor (dToF Technology)	N/A (standard); 2 pcs (optional)
Lane Type	Single Lane

	(Support bi-directional entry/exit lane)
Lane Width	550mm
Barrier Movement Type	Rotating (Tripod)
Lid Material	Polycarbonate+2.5D tempered glass
Lid Options Authentication Methods	RFID / Facial Authentication / QR code (Dynamic / Static)
Chassis Material	Electro-galvanized steel plate, with baked enamel finish. (T=1.0mm)
Chassis Color	Pearl White (PWH)
Tripod Rod Material	SUS304 Stainless Steel
Motherboard Function	Tripod release duration, Access mode configuration
Motherboard Communication	Fire Alarm Port (Relay)*1, RS485 Port*1
Controller	Access controller Options: C3, InBio series or third-party controller subject to turnstile chassis space
Credential Options	Post mount Facial Authentication Device: G4 Pro Under mount QR code Reader: QR500 Under mount RFID Reader: ProID10
Flow Rate	Face: 15 Passengers per minute RFID: 25 Passengers per minute QR code: 25 Passengers per minute
Power Supply	AC 110V~220V, 50/60Hz, DC 12V
Power Rating	Operating: 40W, Standby: 10W
Fire Signal	Input for voltage-free contact
Noise Level	< 65dB
MCBF	5 Million
Weight	25kg
Dimensions (L*W*H)	1200*734*1020mm
Dimensions with Packaging (L*W*H)	1300*305*1106mm
Operating Temperature	-20℃ to 70℃
Operating Humidity	20% to 80% RH (non-condensing)
Certifications	CE, FCC
Ingress Protection Rating	Self-laboratory test: equivalent to IPX4
Supported Software	ZKBio CVAccess/ ZKBio CVSecurity (Compatible with software only when connected to the control)

	panel)
Safety Features	Auto drop arm during power failure and emergency
Security Features	Anti-tailgating
Product Delivery	Pre-assembled
Application Environment	Indoor/Outdoor (If sheltered)
Site Preparation	Flat and level finished floor (optional base plate for unfinished floors)
Security Level	Middle
Emergency Mode	Drop arm function engages during power outage or fire alarm events
Packing Material	Carton box

1.3 Mechanical System

The mechanical system of the tripod turnstile includes the chassis and the core component. The chassis serves as a carrier for the tri-color indicator, Reader, and Access controller. The core components primarily include the Motor, Frame, Bearing, Arm, and other essential elements.

1.4 Electronic Control System

The electronic control system of a tripod turnstile mainly consists of the Card Reader, Turnstile Control Board, Access Controller, Alarm and Traffic Indicator.

Card Reader: The reader reads the data on the card and transmits it to the Access Controller.

Turnstile Control Board: The turnstile control board serves as the control center of the system, receiving signals from the access controller and photoelectric switch; and it makes logical judgments and processes these signals, then subsequently sends executive commands to the traffic indicator, motor, and alarm.

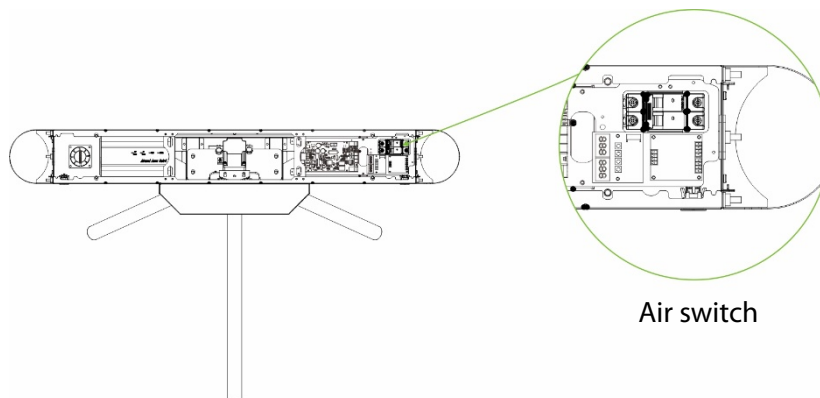
Access Controller: This component enhances convenience for authorized personnel by facilitating entry while simultaneously restricting access for unauthorized individuals.

Traffic Indicator: Displays the current passage status of the channel and guiding pedestrians to pass through the channel in a safe and orderly manner. (Normal status: Blue; Passage allowed: Green; Abnormal/Error status: Red)

Alarm: This system issues an alarm alert when the system detects unauthorized entry or illegal access by pedestrians.

1.5 Working Principle

1. When connected to power, the tripod turnstile undergoes a Power-On Self-Test. If no issues are detected during this process, the turnstile will operate normally.

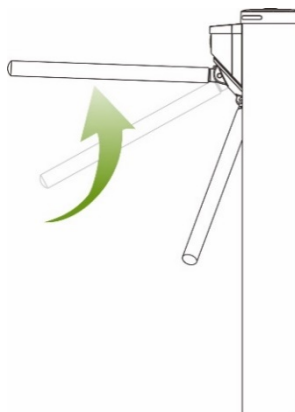


2. When the card reader successfully reads a valid card, the peak buzzer emits a pleasant sound, signalling to pedestrians that the card reading is successful. Simultaneously, the system processes the information from the card, sending a signal to the turnstile control board to request passage.
3. The turnstile control board receives the signal from the card reader, processes it comprehensively, and sends an effective control signal to the indicator and motor. The traffic indicator turns green, and the control board activates the electromagnet to open the gate. The pedestrian pushes the boom following the indicator light, and the boom rotates automatically to facilitate pedestrian passage.
4. If a pedestrian enters the passage without successfully verifying their identification or with an invalid card, the system will not grant passage. Only when a valid card is successfully confirmed will the pedestrian be allowed to pass through the passage.

Note: Make sure the ground wire of the system is securely connected to avoid personal injuries or other accidents.

1.6 Power-On Self-Test

1. Connect the turnstile to AC 110V~220V, 50/60Hz, DC 12V power supply.
2. Turn on the power switch of the turnstile and wait 30 seconds for the self-test procedure to complete.
3. The turnstile will automatically raise the arm, as shown in the figure.

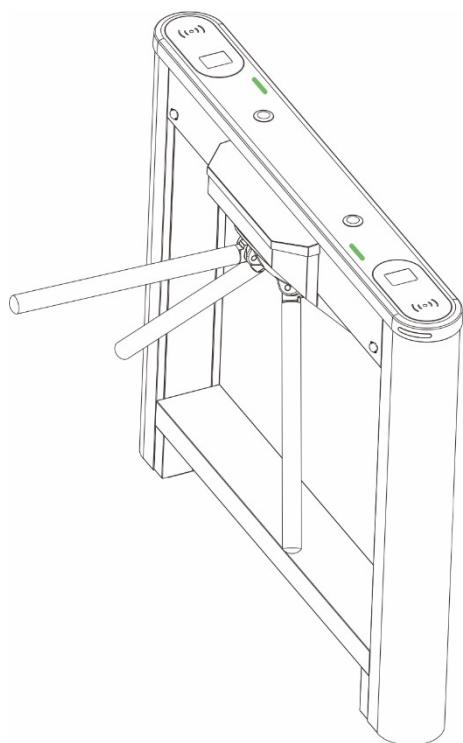


4. Use the two-way switch to test whether the turnstile is working properly, and simultaneously check whether the passage indicator light is functioning correctly. If any abnormality occurs, please contact your distributor.

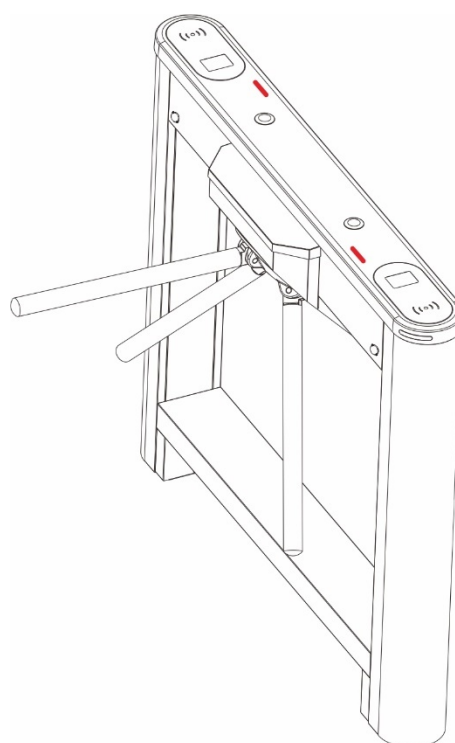
1.7 Status of Traffic Indicator

The tripod turnstile is in working state after power-on self-test. The traffic indicators provide pedestrians with the appropriate passage indications.

Passage allowed:



Abnormal/Error:

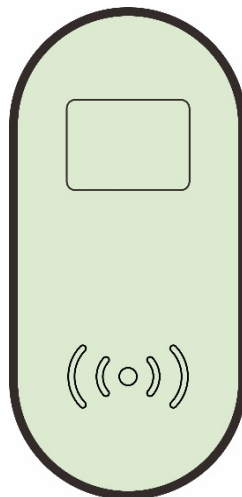


2 Authentication Methods

Users can freely choose to configure the authentication module according to actual needs. The following options are included.

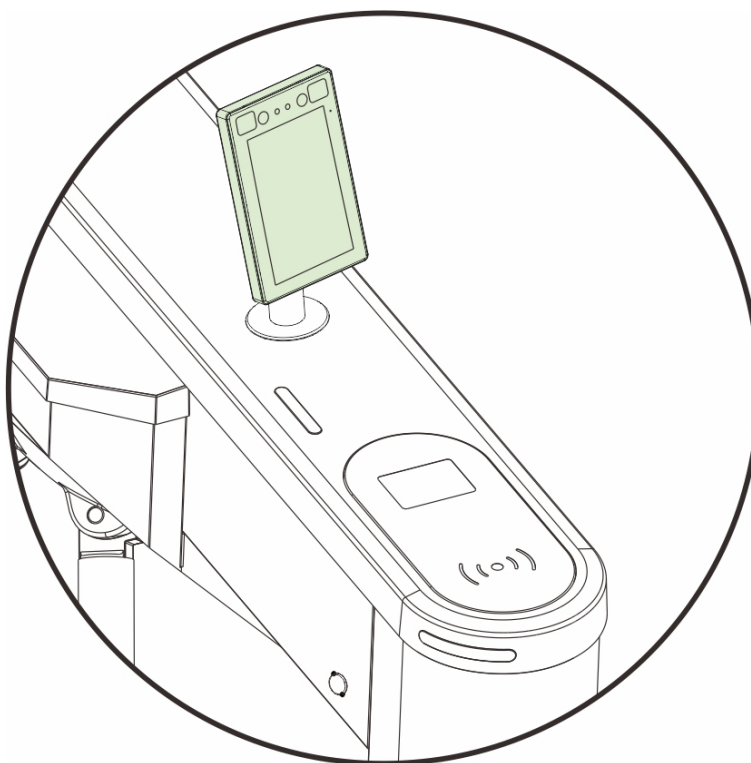
Streamlined Under Mount Options:

RFID only, RFID & QR Code.



Surface Mount Option:

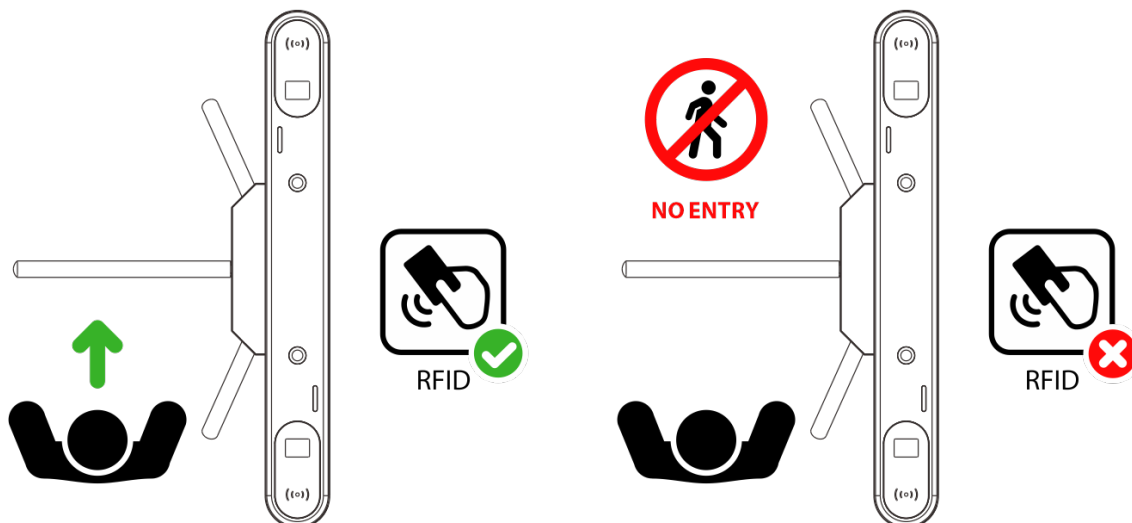
Mounting Pole (Compatible with ProFace X series / SpeedFace V5L / ProFace X[CH]).



2.1 Card Verification★

When the device is configured with a card swipe module, the Card Verification mode compares the card number in the card induction area with all of the card number data registered in the device and sends it to the Access Controller.

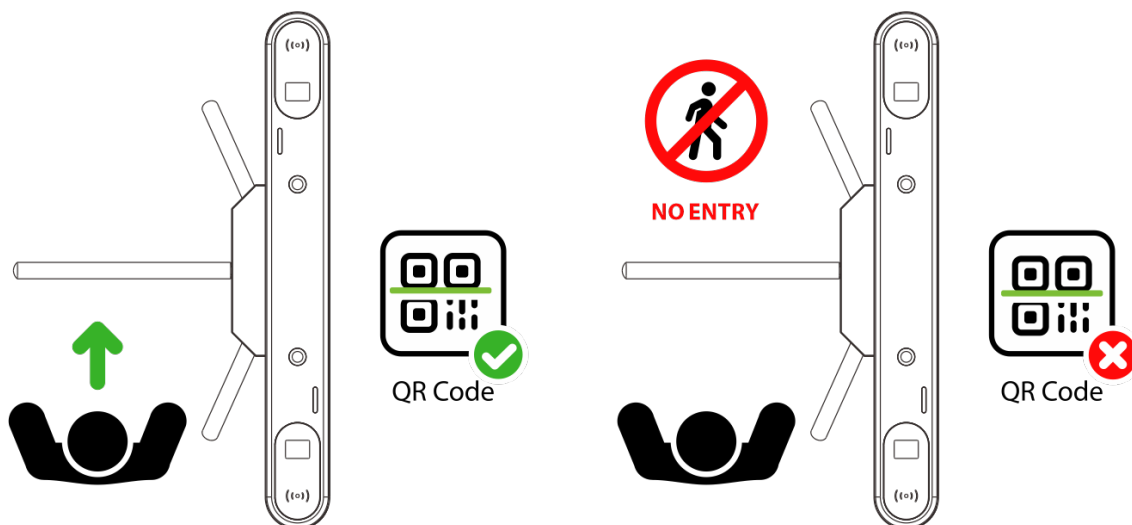
When a user presses his / her card on the card reading area, the device enters card authentication mode.



2.2 QR Code Verification★

The QR code Verification mode is to scan the QR code on the user's mobile phone through the QR code scanner and compare the data with the registered QR code, and then sends it to the Access Controller.

When the user places the mobile phone displaying with the QR code on top of the QR code scanner, the device enters the QR code authentication mode.



2.3 Facial Verification★

In this verification mode, the device compares the collected facial images with all face data registered in the device and then sends it to the Access Controller.

Try to keep the face in the centre of the screen during authentication. Please face towards the camera and stay still during face registration.

Recommended Standing Posture and Facial Expression:

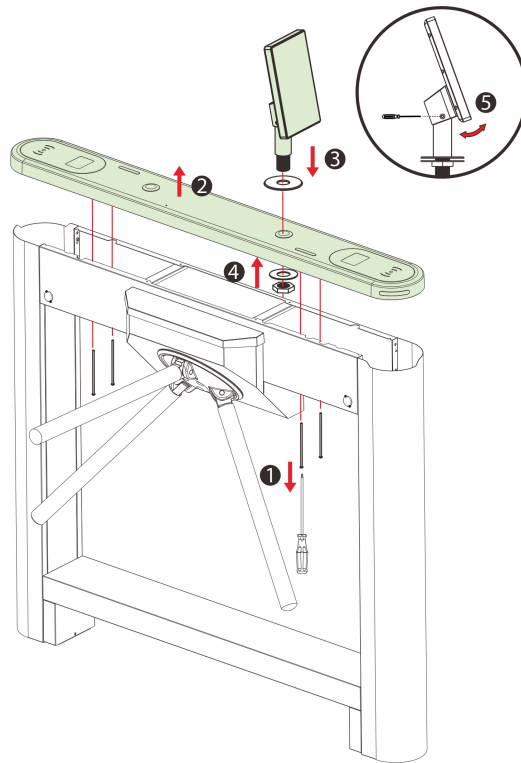


Note: Please keep your facial expression and standing posture natural while enrollment or verification.



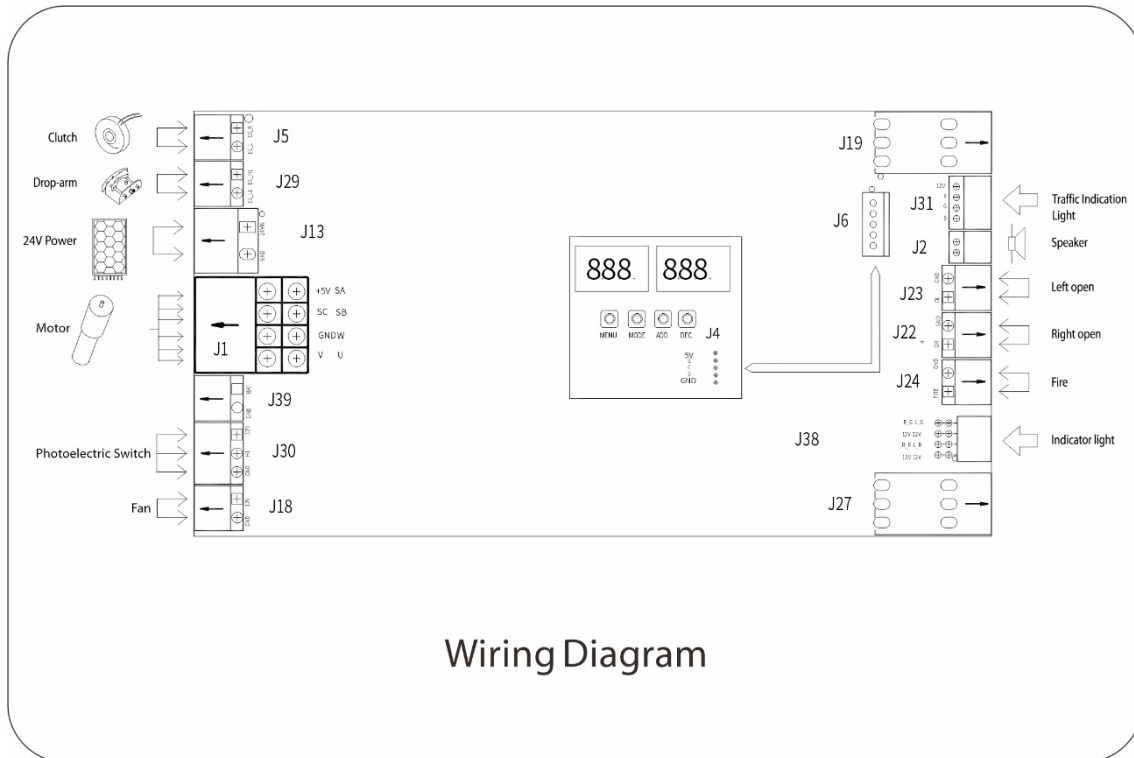
Facial Authentication Terminal Installation:

1. Remove the top cover plate and route the unit's cables through the pre-drilled mounting holes.
2. Pass the mounting bracket through the mounting holes.
3. Place the gasket and nut and tighten the nut to secure the unit.
4. Adjust the unit to a suitable angle.



3 Control System Description

3.1 Wiring Diagram



3.2 Motherboard Function Description

- **Operating Instructions**

1. There are four operation buttons on the keypad: "MENU", "MODE", "ADD" and "DEC".
2. Button operation instructions:

The first button on the menu control panel is the menu button. Press and hold it to enter the menu options.

After entering the menu, briefly press the second button to cycle through the menu function options.

The third and fourth buttons are for selecting menu function values. Use them to adjust the function parameters up or down. After completing the adjustment, press and hold the first button to save the parameters.

● Menu Description

Note: The codes in the following table are not listed in sequential order.

Code	Menu Items	Options/ Values	Description
01EXXX	Display Mode	0--Display current gate position 1--Infrared input signal 2--Control input signal 3--Test mode 4--Version number 5--Hidden menu	Display description: XFX、XXX 1. Device status 2. Device status 3. Display status 4. Version number
02EXXX	Device Mode	1--Controlled entry and exit (default 1) 2--Controlled entry, free exit 3--Free entry, controlled exit 4--Free entry and exit 5--Controlled entry, prohibited exit 6--Prohibited entry, controlled exit 7--Free entry, prohibited exit 8--Prohibited entry, free exit 9--Prohibited entry and exit	
03EXXX	Opening Speed	5-32 (default 17)	Higher value = faster opening speed
06EXXX	Closing Speed	5-32 (default 17)	Higher value = faster closing speed
07EXXX	Closing Deceleration Stroke	0~50 (default 20)	Higher value = longer deceleration stroke
10EXXX	RS485 Address	0~254 (default 0)	
11EXXX	Auto-close Time When No One Passes	2~60 (default 5)	Unit: S, Lower value = faster closing time
13EXXX	End Position Adjustment	1--Closed position adjustment	Position can only be adjusted when in place
14EXXX	Opening Memory	0--Disabled (default 0) 1--Enabled	
16EXXX	Voice Volume Adjustment	1~100 (default 70)	Higher value = louder volume
17EXXX	Disable Alarm Tone	0--Disable 1--Enable (default 1)	

24EXXX	Factory Reset	1--Restore factory settings	
Hidden Menu (To view, set "01EXXX" to "5" to display items 30-39)			
40EXXX	Sensor Type	0~5 (default 0)	0--Standard photoelectric sensor 1--Laser radar 2-5--Reserved

- **Error Codes**

ER0002 - Self-test failed, Hall sensor detection error

ER0004 - Operation timeout

ER0008 - Clutch locked

ER016 - Encoder disk detection failed

ER032 - Stall protection

4 Troubleshooting

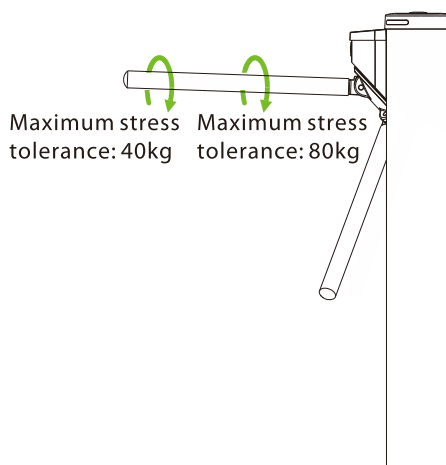
Failure Description	Solution
Passage indicator light does not respond or indicates incorrectly	Loose or incorrect wiring of the control board backlight. 1. Inspect the backlight wiring of the control board. 2. Ensure all connections are secure. 3. Re-connect any loose wiring if necessary.
No arm raise on power-on, no arm drop on power-off	Check whether the solenoid valve (drop-arm solenoid) wiring connection is secure or if the screws are loosen. Tighten the loose screws if necessary.
Turnstile does not open after verification	Check user permissions and wiring. 1. Check whether the user has permission to open the turnstile. 2. Refer to the wiring diagram to check the main board wiring.

5 Precaution

1. It is recommended to purchase optional accessories to use in outdoor environment.
 - a) Install optional cooling fans if the working temperature frequently exceeds 50°C.
 - b) Proper installation makes it equivalent to IPX4 waterproof, but it cannot withstand regions prone to typhoons.
 - c) For temperatures below -30°C, consider installing a heating plate. Allow time for automatic self-checking during power-on in extreme cold conditions.
 - d) Note that using the equipment in coastal areas or regions with acid rain may reduce its service life.
2. When power and signal cables are correctly connected, the equipment can be submerged up to a depth of 250 mm in water. Do not power on the equipment when submerged in water to prevent operational issues.
3. It is highly recommended to set up a card swiping warning line to prompt passers-by to swipe cards properly. Establish a reasonable passage width to prevent illegal squeezing by passers-by.
4. It is recommended to place a warning sign at a conspicuous position. The sign should prompt: "Please swipe your card outside the warning line and pass in order. Thank you!"

The maximum tolerance of the tripod turnstile's arms

Note that the maximum stress tolerance at the center of the arm is 80kg, while at the ends of the arm, it is 40kg. In the event of an impact force reaching the designed limit on the tripod turnstile, the arms are engineered to detach first as a safety mechanism. This is a safety feature to prevent damage to the entire equipment and ensure the safety of passers-by.



In case of emergencies

The equipment is designed to automatically drop the arms during a power failure, enabling open passage for safe egress. Furthermore, the turnstile control board offers an interface to connect an emergency switch (Drop Arm), maintaining the tripod turnstile in an open position during emergencies. Note: After power is restored, wait at least 6 seconds before manually lifting the arms.

6 Maintenance

6.1 Chassis Maintenance

The chassis is made of SPCC steel (GB700) with powder coating. If it has been used for a long time, the surface may develop rust stains. It is recommended to clean the surface regularly with a clean cloth.

6.2 Movement Maintenance

Before performing maintenance, ensure the power is turned off. Open the door, wipe away surface dust, and apply lubricant for smooth movement.

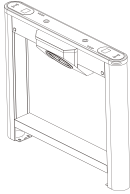
6.3 Power Supply Maintenance

- Switch off the power supply before conducting maintenance.
- Check the power plug connection; if loose, securely fix it..
- Do not change any connection position randomly.
- Periodically check the insulation of the external power supply.
- Conduct regular checks for any potential leakage.
- Check if the technical parameters of interface are normal.
- Check the service life of the electronic components and replace accordingly.

Caution: All maintenance procedures for the tripod turnstile mentioned above should be carried out by a professional technician, especially when handling movement and electric control components. To guarantee operational safety, it is crucial to switch off the power supply when the barrier is not in use.

7 Packing List

The package consists of the following items:

	Saturn-T1000 Pro	1
	Cover Plate	2
	Arm Assembly	1
	Power Adapter	1
	Expansion Screw	4
	Washer	4
	Expansion Screw Washers	4
	Hex Wrench	1
	Hex Socket Cap Screw M10x60 (Used to fix the arm assembly)	3
	Stainless Steel Maintenance Wipes	1

Revision History

Revision	Date	Author	Reviewer	Description
V1.0	09/01/2026	Mia Liang		Original Document

ZKTeco Industrial Park, No. 32, Industrial Road,
Tangxia Town, Dongguan, China.

Phone : +86 769 - 82109991

Fax : +86 755 - 89602394

www.zkteco.com

