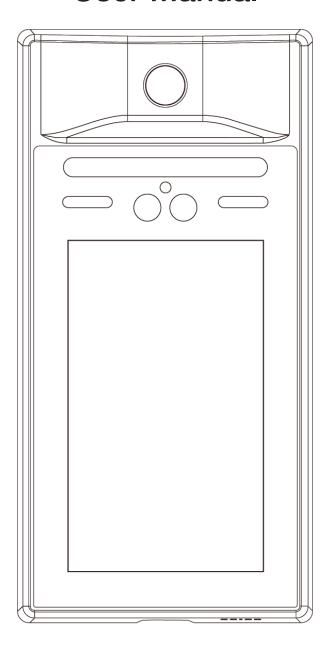


## **TSCAN-750**

# Temperature Scanning Entry System User Manual



Please read this manual before powering the unit on.

Important safety information inside.

### **Table of Contents**

Introduction	
Box Contents	
Product Appearance & Interface Instruction	
Wiring Instruction	
Bypass Wiring for Access Control Installations	
Identity Mode	
Operation Process	
Add Device and Import Information	
Network Settings	
Operate Code Settings	
Data Sync	
Menu Items.	
Homepage	
Sync Last Data	
Sync All Data	
Register Face	
Access	
Settings	
Network Settings	
Operate Code Setting	
Parameter Settings	
White Light	
Voice Broadcast	
Similarity Threshold	
Mask Detection	
Access Control Settings	
Online Update	
About	
Help	
•	
Language Settings	
Restore Factory Settings Temperature Scanning Notes	
ioniporataro coaming notociminatina in the comment of the comment	
Quick Screening Mode	13
Operation Process	13
Add Device	13
Settings	14
Network Settings	14
Measuring Modes	14
Parameter Settings	14
Access Control Settings	14
Online Update	14
About	15
Help	15
Language Settings	15
Restore Factory Settings	15
To all wheel Connectifications	
Technical Specifications	
Installation Instructions	17 10

#### Introduction

TSCAN-750 Temperature Scanning Entry System supports two usage modes and is equipped with different platform software for more powerful functions.

- 1. Identity Mode Combined facial recognition and temperature measurement for employee access control and attendance management. Equipped with web interface to view historical statistics.
- 2. Quick Screening Mode Allows entry based on temperature reading without facial recognition. Temperature and entry statistics available via mobile app.

#### **Notice:**

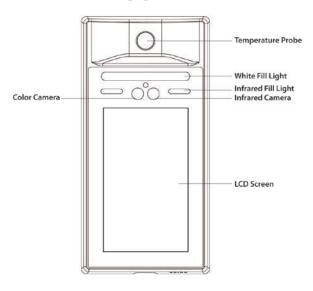
- To ensure the normal operation of the temperature measurement module, the device needs to be warmed up for more than 2 hours after it is powered on.
- · During installation and use, all electrical safety regulations of the country and region of use must be strictly observed.
- When wiring, installing, and disassembling, please be sure to disconnect the power supply. Do not perform any of these operations with electricity.
- If the device emits smoke, produces unusual odors, or makes noises, immediately turn off the power and unplug it; contact the dealer or service center.
- · If the equipment is not working properly, please contact customer service. Do not disassemble or modify the equipment in any way. (The company does not assume any responsibility for problems caused by unauthorized modification or maintenance.)
- Do not drop objects on the device or vibrate the device vigorously. Keep the device away from magnetic interference.
- Avoid installing the device where the surface vibrates or is vulnerable to shock.
- Avoid installing the device at the air outlet of the air conditioner or in a place with large airflow fluctuations.
- Avoid placing the device in direct sunlight, poorly ventilated locations, or near heat sources.
- Ensure that the equipment is installed vertically.
- Do not use the device in high temperature, low temperature or high humidity environments.
- Biometric products cannot be 100% suitable for any anti-counterfeiting environment. High security level places, please use combination authentication.
- Do not touch the temperature probe with your fingers or blow air on the probe.
- Please make sure no hair, sweat, or hat covers your forehead while measuring temperature.
- If the forehead is cold, allow enough time for the forehead to reach room temperature before taking temperature measurement. Examples: After washing the face, applying ice, or entering the room from outside in winter conditions.
- Do not aim the lens of the device at strong light objects, such as the sun, incandescent lamps, etc.; otherwise, it will cause lens damage.

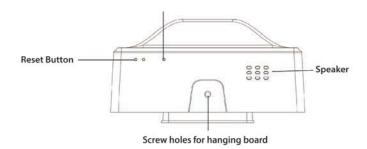
### **Box Contents**

- TSCAN-750 Unit
- 1 Power Adapter
- 4 International Adapters: 1x Type A, 1x Type C, 1x Type G, 1x Type O No Ground
- 4 Cables: 1 x 2 pin, 1 x 6 pin, 1 x 7 pin, and 1 x 11 pin
- 1 Port Cover

- 1 Wall Mount Kit:
  - 1 Wall Mount Plate
  - 4 Wall Plugs
  - 4 KA 4x25 Screws
  - 4 KM 4x10 Screws
  - 4 Hex Screws
  - 4 Hex Nuts
  - 8 Flat Washers
  - 1 1/4-20 3/8" Phillips Screw

### **Product Appearance**





### **Interface Instruction**

0	6-Pin Door Button, Door Sensor, and Alarm Interface								
	1	2	3	4	5	6			
	5V	GND	NC	Open Button	Door Sensor	Alarm			

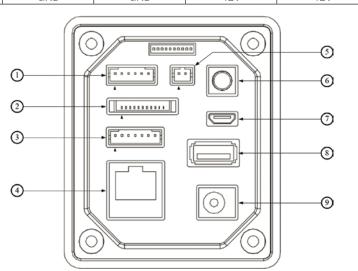
2											
	1	2	3	4	5	6	7	8	9	10	11
		PWRON	107	GND	3.3V	IO6	IO5	104	IO3	102	IO1

3	7-Pin 12V Power Supply, Relay Interface							
	1	2	3	4	5	6	7	
	COM	NO	NC	GND	GND	12V	12V	

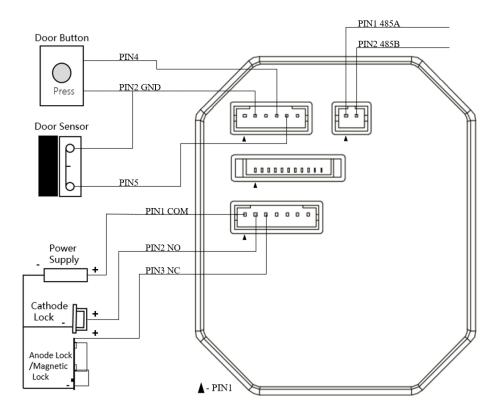
4 Ethernet Port

6	2-Pin 485 Interface	e	
	1	2	
	485A	485B	

- 6 Tamper Key
- Micro USB Port
- **8** USB-A Port
- 9 12V Power Adapter Socket

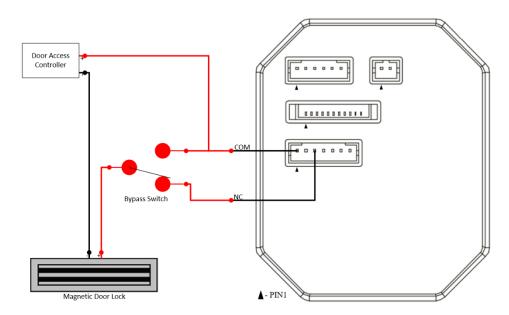


### **Wiring Instruction**



### **Bypass Wiring for Access Control Installations**

For Access Control installations using the Normally Closed relay to make/break the supply voltage to the magnetic door lock, a bypass switch/relay is recommended to maintain secure access to the building. In the event Connector 3 7-Pin 12V Power Supply, Relay Interface is disconnected from the TSCAN-750, the bypass switch/relay provides a solution to maintain secure building access control.



### **Access Control and Attendance - Identity Mode**

#### **Operation Process**

To access Identity Mode, click the following button.



Login to the Attendance & Access Control Management Platform Software.

Enter the device management interface to add the device. The device ID number must be consistent with the main interface on the device.

Import the individual's information, face photos, and configure this device as an attendance device for individuals.

For details of operation, please refer to the instructions of the management platform software.

The Attendance & Access Control Management Platform Software should be deployed on a local workstation within your network environment.

Once installed, the TSCAN-750 must be updated with the web address of the Management Platform Software. <a href="http://cservername">http://cservername</a>:30091

Users can also deploy according to their needs.



#### **Network Settings**



Select the button in the upper right corner to set the service domain name settings for "Domain Name Settings" and "Network Settings."

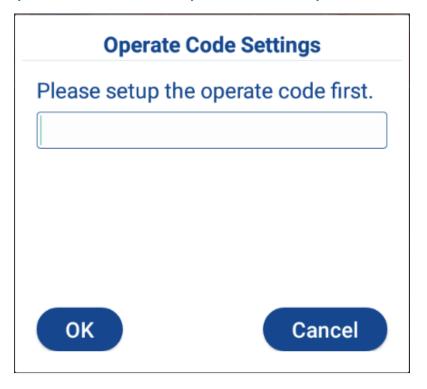
The address defaults to the company's service platform access address. This address should be changed to the local server or workstation on which you installed the Attendance & Access Control Management Platform Software.

Configure the device to connect to the network. You can choose WIFI or Ethernet. If the device is successfully added through the management platform software and the device is successfully connected to the network, a menu icon will appear in the upper left corner of the main interface of the device.



#### **Operate Code Settings**

Click and enter an operate code of your choosing. The initial code that you enter into this field will serve as the Operate Code used to access the Settings Menu going forward. For example, if you enter 1234 as your initial Operate Code, then you will need to use 1234 as your code each time you enter the Settings Menu.



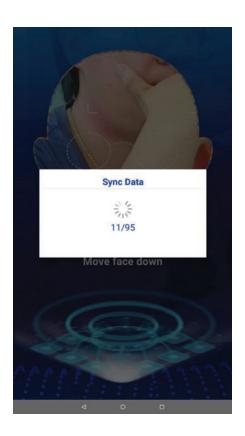
#### **Data Sync**

After the operation code is set, data synchronization will start automatically.

The number on the left shows the number of faces that have been synchronized, and the number on the right shows the number of faces to be synchronized.

After the synchronization is complete, you can start face recognition temperature measurement access control attendance.

Note: If there are many faces in one synchronization, the synchronization time will take longer, please be patient.



#### Menu Items

The Menu icon is hidden on the homepage. To display the icon, you must double-tap the screen.

After clicking the menu icon, the interface for entering the operate code is displayed. Enter the operate code, and once verified, the menu item page is displayed.

#### Homepage

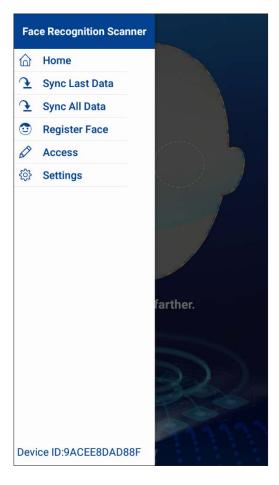
Click to return to the scanning homepage.

#### Sync Last Data

The device only syncs the last modified or added user data and face photos.

#### Sync All Data

The device will clear the local cached data, and re-sync all user data and face photos. Depending on the number of users registered in the Access Control & Attendance Management Platform Software, this can take an extended period of time.

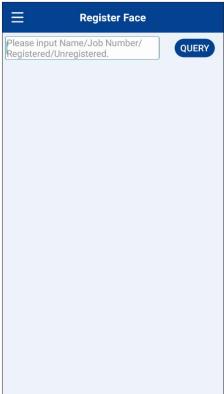


#### **Register Face**

Through the Access Control & Attendance Management Platform Software, after entering the employee information, you can choose to register the face on the device.

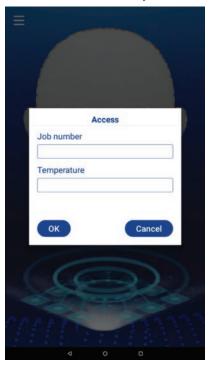
If the face photos entered into Access Control & Attendance Management Platform Software are unqualified and the employee cannot perform face recognition, they can also choose to register faces on the device.

You can enter the Name / ID and perform a search. After finding the corresponding employee information, choose to register the face or reregister to enter the face.

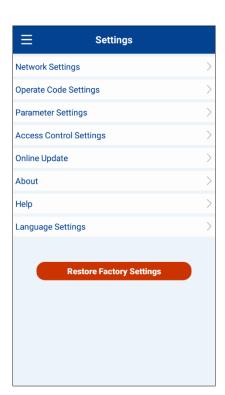


#### **Access**

If the face cannot be recognized, you can choose Access to verify.



#### **Settings**



#### **Network Settings**

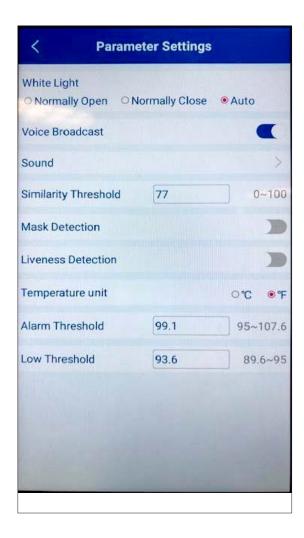
Set up device networking.

#### Operate Code Setting

Modifying the operation code requires that the device is in the online state.

It can be viewed in the software/device management of the access control and attendance management platform to prevent forgetting the operation code.

#### **Parameter Settings**



#### White Light

The white light can be set to normally open / normally closed / auto. When set to automatic, it will automatically adjust on/off according to whether there is face detection or not.

#### **Voice Broadcast**

Control the opening and closing of voice announcements.

#### Similarity Threshold

The threshold adjustment will affect the pass rate and false detection rate of face recognition.

If the face similarity threshold is set higher, the comparison will be stricter and the pass rate will be relatively reduced.

If the mask recognition threshold is set higher, it may lead to an unrecognizable scan. If the threshold is set lower, the false detection rate will increase. For example, if the original person is not entered and the threshold is set lower, it may be identified as an employee in the photo library that is similar to the person.

#### **Mask Detection**

When mask detection is enabled, only those wearing masks can pass. If someone is detected not wearing a mask, an alarm will be issued and they will not be able to pass.

When the liveness detection is enabled, the live detection infrared fill light will be performed after recognition. It can be set to normally open / normally closed / auto. When set to automatic, it will automatically adjust on/off according to whether there is face detection. Only pass the liveness detection to enter.

#### **Temperature Unit**

Specifies whether temperatures should be displayed in Celsius or Fahrenheit.

#### Alarm Threshold

Specifies at what temperature the device should read as too high (alarm state).

#### Low Threshold

Specifies at what temperature the device should not take a reading below. This may make it necessary for a person to "warm up" if coming from a cold environment, before a proper reading will be taken.

#### **Access Control Settings**

The action time of the door lock can be set to specify long it will automatically close after the door is opened.

Door sensor type can be selected according to the actual installed door sensor type, either normally open / normally closed.

Door magnetic alarm - If the door is not opened or closed normally, the alarm will be triggered.

#### **Online Update**

Online upgrade requires that the device be connected to an external network.

Click Online Upgrade to automatically detect whether the software has a version update. If there is a version update, it will automatically update the latest version of the software.

#### **About**

Check device software version information.

#### Help

View instructions.

#### Language Settings

Change the system language.

#### **Date & Time**

Change the system date and time.

#### **Restore Factory Settings**

Proceed with caution - If you choose to restore the factory settings, the device will clear all data and restore to the state of initial use.

### **Temperature Scanning Notes**

Pay attention to the following points during time and attendance of face recognition temperature measurement:

- Please align the full face with the outline of the face on the homepage.
- Adjust facial position according to the prompt below the outline on the screen.
- The forehead must not be covered by hair, clothing, jewelry, etc., which could prevent a clear temperature reading.

### **Access Control and Attendance - Quick Screening Mode**

Quick Screening Mode performs temperature screening only when face recognitions is not required. This mode is equipped with Temperature Cloud APP to monitor abnormal data and snapshots.

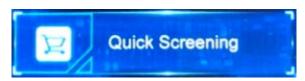
Scan the QR code below to download the Temperature Cloud APP and bind the device to view the data.



Temperature Cloud APP

### **Operation Process**

To access Quick Screening Mode, click the following button.



#### **Add Device**

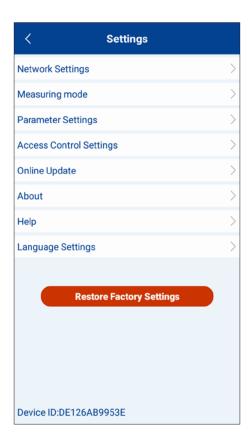
Download the Temperature Cloud APP.

Add the device. Select "Al321" as the device type, and enter the device ID number, which must be the same as the ID number displayed on the device main interface.



### **Quick Screening Mode** (cont.)

#### **Settings**



Select the main interface setting icon to enter the setting interface.

#### **Network Settings**

Configure device networking.

#### **Measuring Modes**

Two measuring modes are available:

Measuring Without Face Checking - Always display the temperature value without face detection, and broadcast the data within the temperature range of the human body.

Measuring After Face Checking - When a face is detected and the conditions are met, the temperature value will be displayed. The temperature range will be broadcast within the body temperature range.

#### **Parameter Settings**

White Light - The white light can be set to normally open / normally closed / auto. When set to automatic, it will automatically adjust on/off according to whether there is face detection or not.

Voice Broadcast - Control the opening and closing of voice announcements.

#### **Access Control Settings**

The action time of the door lock can be set to specify long it will automatically close after the door is opened.

Door sensor type can be selected according to the actual installed door sensor type, either normally open / normally closed.

Door magnetic alarm - If the door is not opened or closed normally, the alarm will be triggered.

#### Online Update

Online upgrade requires that the device be connected to an external network.

### **Quick Screening Mode** (cont.)

Click Online Upgrade to automatically detect whether the software has a version update. If there is a version update, it will automatically update the latest version of the software.

#### **About**

Check device software version information.

#### Help

View instructions.

#### **Language Settings**

Change the system language.

#### **Restore Factory Settings**

Proceed with caution - If you choose to restore the factory settings, the device will clear all data and restore to the state of initial use.

### **Technical Specifications**

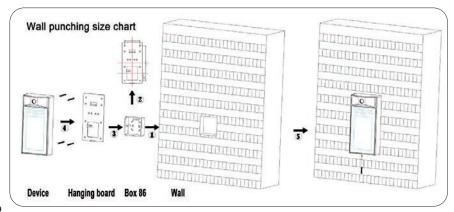
Temperature measurement module paran	neters
Measurement range	32°C~45°C/ 89.6°F~113°F
Measurement accuracy	±0.5°C/ ±0.9°F (at 25±2°C/ 77±3.6°F ambient temperature)
Measurement distance	8 in~20 in (20cm~50cm)
Measurement response	0.5s
Elevated temperature alarm point	99.1°F (37.3°C)
System hardware parameters	
Processor	ARM Cortex-A7 (Quad Core)
Operating system	Android 8.1
Memory size	1 GB
Storage size	16 GB
Camera Parameters	
Resolution	Color 200W (1920*1080), Infrared 130W (1280*960)
Imaging device	Color AR0230, Infrared AR0130
Lens	2.9mm
Recognition height	3 ft~6 ft (1m~2m)
Recognition distance	1 ft~4 ft (0.3m~1.2m)
Angle of view	Horizontal: 89° Vertical: 57° Diagonal: 98°
Face angle	±30°
Minimum illumination	Color ≥0.01LUX at F1.2, Infrared: ≥0.01LUX at F1.2
Signal to noise ratio	Color ≥4dB, Infrared: 44dB
Wide dynamic range	Color ≥105dB, Infrared: ≥83.5dB
Interface parameters  Network interface	1 RJ45 (10/100 ethernet port)
USB interface	1 USB interface
Wireless connection	WiFi+BLE4.0
RS485 interface	1 RS485 interface
Relay interface	1 relay interface
Alarm door check button	1 fire alarm door check button
IO reserved	1 11pin terminal
Power supply	12V DC / 3A
Smart functions	
Face recognition capacity	50,000
Offline records	100,000
Recognition accuracy	99.83%
Live detection	Support binocular near infrared
Face detection	1080P @ 25fps, supports face detection tracking, optimization
Face recognition speed	Approx 200ms
Live detection speed	Approx 400ms
Basic parameters	
Screen size	7 in (178mm)
Product dimensions LxWxH	11 in x 5.4 in x 3 in (275 mm x 137 mm x 72.5 mm)
Operating humidity	10%~90%
Operating temperature	10°C~40°C / 50°F~140°F
Box Dimensions (L x W x H)	15.5 in x 9 in x 6 in (394 mm x 229 mm x 153 mm)
` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
Box Weight	5.3 lbs (2.4 kg)

#### Installation Instructions

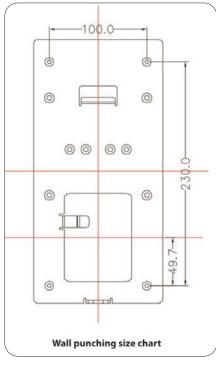
- For wall mounting, the TSCAN-750 is provided with a wall mount kit, which includes:
  - 1 Wall Mount Plate
  - 4 Wall Plugs
  - 4 KA 4x25 Screws
  - 4 KM 4x10 Screws
  - 4 Hex Screws
  - 4 Hex Nuts
  - 8 Flat Washers
  - 1 1/4-20 3/8" Phillips Screw
- For freestanding applications, most standard tripods/stands can be used with the TSCAN-750 by fixing the backplate to the stand using the existing holes and screws provided.
- Regardless of wall mount or freestanding installation, the TSCAN-750 is for indoor use only.

### **Box 86 for Wall-Mounted** Installation

- 1. Install stickers on the wall, and make holes in the wall according to the height and position of the stickers to install Box 86.
- 2. Align the outlet of the hanging board with the center of Box 86. Punch four mounting holes on the wall according to the punching size diagram, and insert four wall plugs.



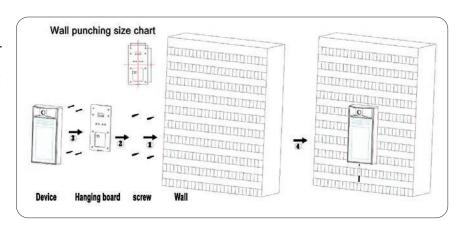
- 3. Use four KA 4\*25 screws to fix the hanging board to the wall. Connect the cable of the external device to the cable, arrange the cables, and determine the cable outlet method.
- 4. Hook the device from top to bottom on the mounting plate, and make sure that the upper part of the hanging plate is inserted into the groove on the back of the device.
- 5. Fix the device and hanging plate from the bottom with a screw.



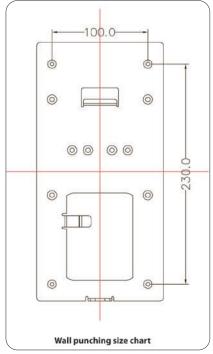
### **Installation Instructions** (cont.)

#### **Wall-Mounted Installation**

- Attach an installation sticker to the wall.
   Make holes in the wall according to the height and position of the sticker, insert a wall plug, and install four hex screws.
- 2. Fix the hanging board on the wall with four KM 4\* 10 screws.
- 3. Hook the device from top to bottom on the hanging board, making sure that the upper part of the hanging board is inserted into the groove on the back.



4. Use a screw to fix the device and hanging plate from the bottom.



Notes:	

# Advanceir.com

### **ADVANCE IR>>**