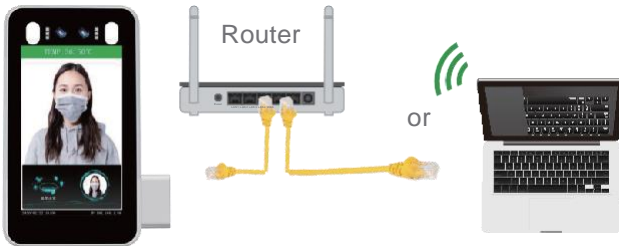# TMT2 Temperature Body Scanner Camera

User manual

Note

1. Device working temperature: 10 -40 ℃. Do not Install under the vent And ensure that there is no heating source within 3 meters;

2. People entering the room from a cold outdoor environment will affect measurement accuracy. The forehead temperature test needs to be performed indoors without covering the forehead for three minutes and the temperature is stable;

3. The temperature read by the temperature measuring device is the temperature in the forehead area. When there is water, sweat, oil or thick makeup on the forehead. or the elderly have wrinkles, the read temperature will be lower than the actual temperature. Make sure there is no hair or clothing covering this area.

1 Product Overview

1.1 Introduction

The face recognition terminals are suitable for hotels, office buildings, schools, shopping centers, KTV, bars, buses and communities.

1.2 Product Features

(1) Non-contact automatic temperature detection and voice prompts;

(2) Temperature measurement range: 30-45 ℃,

7- inch forehead temperature measurement accuracy is ± 0.3℃, The measurement distance 0.4~1meter;

(3) Auto identify people without masks and sound real-time warning;

(4) Dual sensor with live detection

(5) Face library 22400 person, storage 100,000 recognize record;

(6) Supports SDK and HTTP protocols under Windows / Linux;

(7) Device vision dynamics ≥80dB, suitable for backlight environment;

(8) Supports fog, 3D noise reduction, strong light suppression, electronic image stabilization, multiple white balance modes.

(9) Linux system

1.3 Packing list

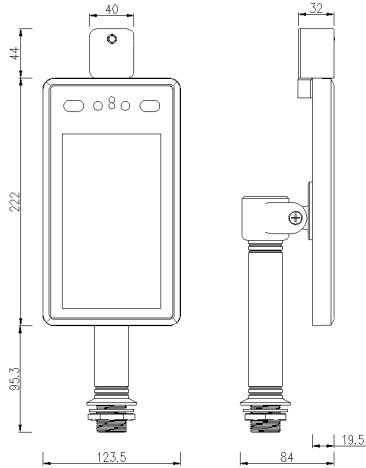**Packing list of 7-inch turnstile**

1. 1*Face recognition terminal   2. 1*Power supply 12V 3A
3. 1*Waterproof head for Network cable port and power port
4. 6* Tie   5. 1*Hex screwdriver
6. 1*User manual

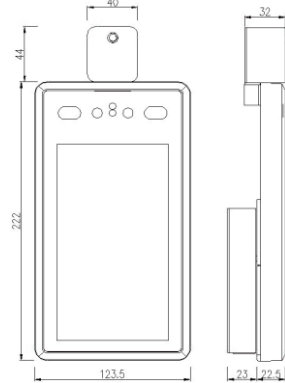**Packing list of 7-inch wall-mounted**

1. 1*Face recognition terminal   2. 1*Power supply 12V 3A
3. Waterproof head for Network cable port and power port
4. 1*Wall mount bracket   5. 1*Screw fixing plate
6. Mounting plate on the face recognition terminal
7. 1*Hex screwdriver   8. 4*Rubber plug and 8*screws
9. 1*User manual

2 Specification

1. 7-inch turnstile TMT2

2. 7-inch wall-mounted TMTWM

3 Wiring Function

7-inch turnstile   8-inch turnstile   8-inch wall mounted

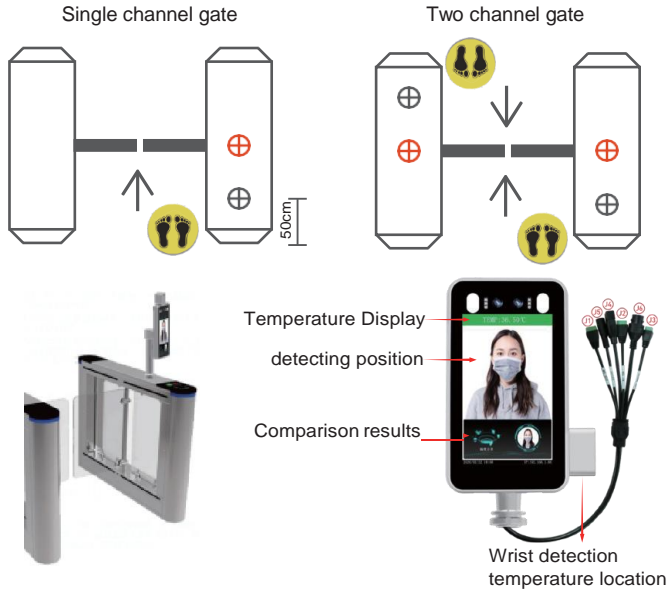| No.	Name	Description
J1	WG Out	1:D0 2:D1 3:GND
J2	WG IN	NC
J3	Alarm Out	Connect Magnetic lock or electric lock
J4	USB	Connect the ID identifier or other USB devices
J5	RJ45	Network cable port
J6	DC12V	Connect to 12V / 3A power supply

7-inch Wall mounted

No.	Description
J1	WG Out：Orange D0、White D1、Green GND
	WG IN：Brown and white D0、Yellow D1、Gray GND
	Alarm out：Brown Alarm+、Purple Alarm Connect Magnetic lock or electric lock
	RS485：Orange and White 485+、Blue and White 485
	USB：Red 5V、Blue D-、Green and white D+、Black GND
J2	Network cable port
J3	Connect to 12V / 3A power supply

4 Installation

4.1 Installed on the gate

According to the device of the installation site, in the space position on the gate or on the front side, the opening diameter of the 7-inch turnstile larger than 27mm, and the opening diameter of the 8-inch turnstile larger than 33mm.

Single channel gate | Two channel gate

50cm

Temperature Display

detecting position

Comparison results

Wrist detection temperature location

4.2 Adjust to best angle and detection position of the detector.

After the temperature measurement access control is fully activated, the human face is directly facing the device. Observe the face image on the device screen.

Make sure that the bare skin on the forehead is placed in the "temperature measurement area" (best temperature detector distance 0.5m).

0.4-1M
Test Distance

≤0.5M
Optimal Test Distance

4.3 Mounted on the bracket

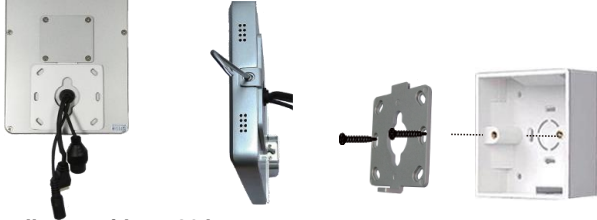1.1~1.8meters | Desktop | 0.6meter | 1.1meter

4.4 Wall mounted
Part for wall mount:

Mounting plate on the face recognition terminal		Screw fixing plate placed in the middle		Wall mount bracket	
7-inch	8-inch	7-inch	8-inch	7-inch	8-inch

Installation with 86 boxes

Step 1: Take off the mounting plate on the face recognition terminal then fixed on the 86 box.

Step 2: Hang the device from top to bottom on the mounting plate then screw on.
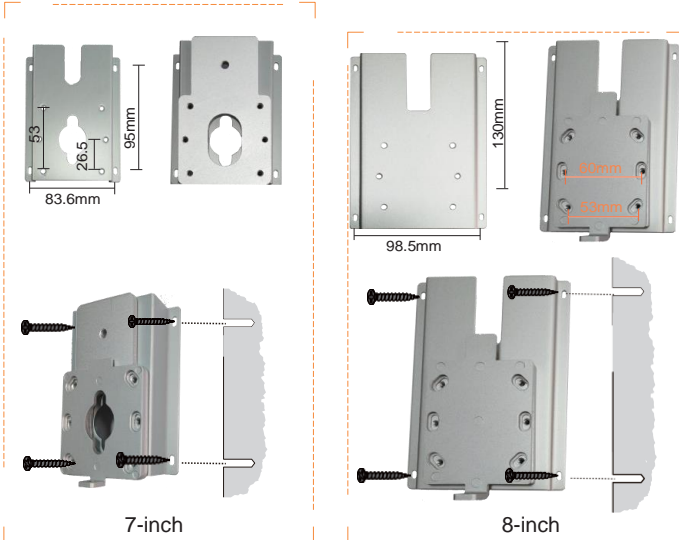

Installation without 86 boxes:

Step 1: Fix the Wall mount bracket on the wall.

Step 2: Screw out from the device.

Step 3: Hang the device from top to bottom then screw on.

7-inch   8-inch
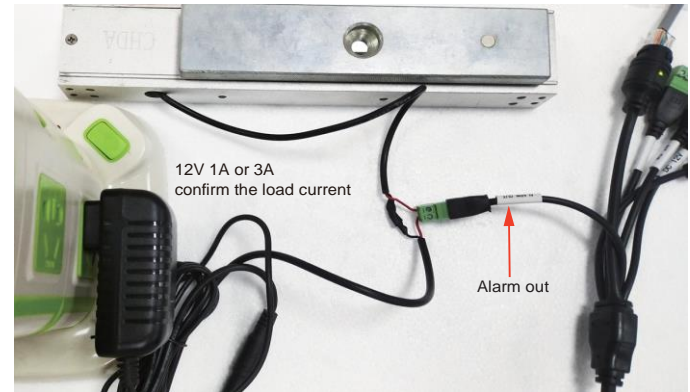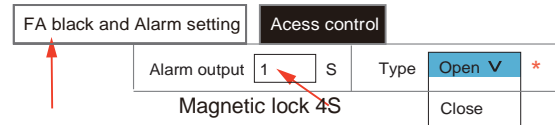
5 Access control

5.1 Connect Magnetic lock or electric lock

Please see the picture below for connecting the magnetic lock. The electric lock connection is the same as the magnetic lock.

12V 1A or 3A
confirm the load current

Alarm out

Logon the IE. Select the Type to Open> if electric lock is connected. Select <Close> and Alarm output for 4S if magnetic lock is connected.

FA black and Alarm setting	Acess control	
Alarm output 1 S	Type	Open V *
Magnetic lock 4S		Close

5.2 Connect WG26 or WG34

After connecting the corresponding interface, select WG26 or WG34 in the IE settings

1:D0 2:D1 3:GND

FA black and Alarm setting	Acess control
Weigand output	Close
	WG26 V
	WG34

5.3 Connect RS485

Only 7-inch wall mount support RS485.

Orange and White 485+、Blue and White 485

6 Setting & search on IE (Internet Explore) browser

6.1 Log in on the IE browser (does not work on any other browser)

After the face recognition machine is connected to the power supply and the network cable, wait for about 2 minutes and the device will finish booting. Enter the 192.168.1.88 on the IE browser, please enter initial password: admin. Make sure the device and the computer are on the same LAN, and the IP of the computer is 192.168.1.xx, if not, please add an IP address of 192.168.1.xx.

```
                http://192.168.1.88/login.asp

    User name :    admin

    Password:

                        Login
```

6.2 Language and Version

Click System info to select the language interface you want. Check the version information of the device

6.3 Change the password of the user

Click User Manage to change the password for select user.

6.4 System Time

User can change the time of the device.

6.5 LAN settings

User can change the LAN setting to user connect the device.

```
    DHCP Enable  ☐
              IP   192 . 168 .  1  . 88
    Subnet Mask   255 . 255 . 255 .  0
       Gateway   192 . 168 .  1  .  1
  Preferred DNS   202 . 96 . 134 . 133
  Alternate DNS    8  .  8  .  8  .  8

                     Save
```

6.6 Connect NVR, HTTP, FTP upload

Connect to NVR through RTSP settings.
Upload to the set HTTP address.
Upload to the set FTP address.

RTSP

```
                      Enable  ☑
       Enable Authentication  ☐
                 Packet Size  1460
                        Port  554

                Communicate  Multicast          ▼
       Multicast Server Address  239.0.0.0
   Main Stream Multicast Video Port  1234
   Main Stream Multicast Audio Port  1236
   Sub Stream Multicast Video Port   1240
   Sub Stream Multicast Audio Port   1242
         Onvif PassWord Enable  ☐

                         Save

              Data Port  5000
               Web Port  80
              ONVIF Port  2000
```

FTP

```
       Server URL
       Server Port  21
       FTP Catalog  /
      classification  There is no    ∨
        User Name
        Password
    FileUploadMode  Direct upload   ∨

          Save          Test
```

DDNS

```
            Enable  ☐    URL   3322.org
    Service Provider               ∨
         User Name
          Password
            Domain
        Server URL  www.3322.org
       Server Port  30000
         Data Port  5000
          Web Port  80
    Update Interval  30 minutes    ∨
```

6.7 Face recognize parameter setting

Enable ☑ Face recognition and capture can be performed when enable;

Time 1 ☑ [0] : [0] -- [23] : [59] Set the two time period.

Time 2 ☑ [0] : [0] -- [23] : [59]

Sensitivity ———————●——— 9 Captured picture will be poorer if sensitivity is higher.

Snapmode [Single mode ∨]

Capturetimes [8 ∨] Default capture times: 8 times, interval(EveryNthFrame): 5 frames

EveryNthFrame [5] (1~1500)

Face recogntion maxi nun pixel [500] (300~500)

Face test minimun pixels [300] (0~500)

Min pixel [200] (30~300) can't capture if min pixel<150

Face scene [Lobby scene ∨] Lobby scene for backlight environment. Conventional scene for normal environment;

FaceTrack [Open ∨] Overlay the face tracking.

FTPUpload [NO ∨] Photo will upload to the FTP server if Yes.

Image Type [Face Picture ∨]

FaceQuality [99] (1~100)

Human [Filter Tracking ∨] Open will living detect.

Living detection [Close ∨] Open will living detect.

Temp Taking Priority [Speed First ∨]

[Save]

6.8 FA Black and Alarm setting

1. Mask detect
You can choose the mask detection. If the visitor does not wear a mask by if select opening, the device will sound a warning prompt;

2. Temperature correction
"Smart Algorithm" mode no correction value;
If the ambient temperature of the device exceeds 30 degrees, select the high temperature algorithm, please use the actual measured human body temperature and the data measured by the device multiple times, and fill in the compensated temperature value.
If the ambient temperature of the device is lower than 10 degrees, select the low temperature algorithm, please use the actual measured human body temperature and the data measured by the device multiple times, and fill in the compensated temperature value.

Alarm Switch ☑	Whitelist alarm ☑	VIP List ☑	Non-White list alarm ☐
IO Output ☑	Continuous output ∨	Alarm output 1 (1~60)S	IO Output Type [Open ∨] *
Recognize Mode	Single recognize mode ∨		
Comparison similarity	[75] (1-100)		1 Face detect
ID similarity	[60] (1-100)		2 Temperature detect
Matching mode	Temperature detect ∨		3 Face detect+Temperature detect; 4.....
Mask detect	Open ∨	without mask	Do not open the door / Open the door
Temperature correction	Intelligent Algorith ∨	compensated temperature [0.0]	
Abnormal temperature opens the door	Close ∨		
Temperature threshold	[37.3] (1-100)		
Temperature unit	Celsius ∨	→ 1.Celsius 2.Fahrenheit	
Time period without temperature measurement	☐ [0] : [0] -- [23] : [59]		

Setting to <open> when detect wearing a mask.

When setting close, Will not open the door if measured temperature is high or too low.

[Save] [Reply defaults]

6.9 List management & Attendance

1. Users can add lists or bulk import some information about employees.

2. Click <Search> to check the attendance list.

3. Click <Search> to view visitor information from the device, including whether the visitor is wearing a mask, body temperature, and photos.

6.10 Access control

Wiegand output **Close** ▽

Include close, WG26, WG34.

White light control **Turn off screen display** ▽

Always on, Time control, Always off, Turn off screen display after no one.

Screen display mode **Turn off screen display** ▽

Always display, Turn off screen display after no one.

When there is a motion detect, the white light and screen will on. After 10 seconds without alarm, the white light off and the screen off.

Face detection resolution **360*640** ▽

Detect the resolution of faces from 360*1920 up to 1080*1920.

3 ▽
Repeated face skip time (1-10S)

Set the number of seconds not to detect the same person.

Temperature Measurement mode **Precision mode** ▽
Quick mode

If you want to speed up the detection, please select the fast mode, if you want higher accuracy, please select the precision mode.

Date Format **YYYY-MM-DD** ▽

Comparison record storage **All records** ▽

Choose whether to save temperature measurement records.

→ Save

6.9 Device Setting

Choose	No.	TotalSize(M)	FreeSize(M)	Status
◉	1 HSD	14800	13695	formatted

Format   Refresh

Format will clear all the face images and comparison records / attendance records of the device.

---

7 Software introduction

7.1 Software installation and run down load here
https://www.kjbsecurity.com/files/1813/sVMS2000_v3.0.0.72.exe

Double-click sVMS2000 3.0.0.72.exe installation program.

Please run this software as an administrator.
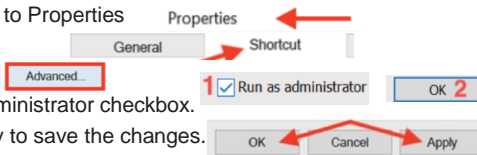
Find sVMS2000 program from Desktop.

Right-click and go to Properties Properties ←

–> Shortcut.   General   Shortcut

Go to Advanced. Advanced...

Check Run as Administrator checkbox. **1** ☑ Run as administrator   OK **2**

Press OK or Apply to save the changes. OK ← Cancel Apply

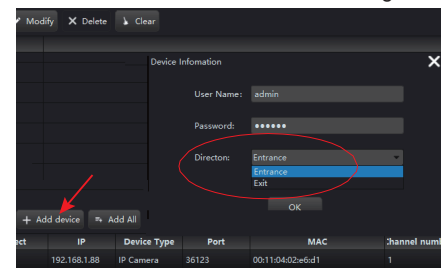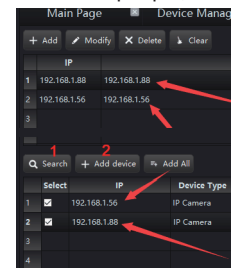Run sVMS, Username: admin; the login password is: 123456
User can select Chinese and English, Español.
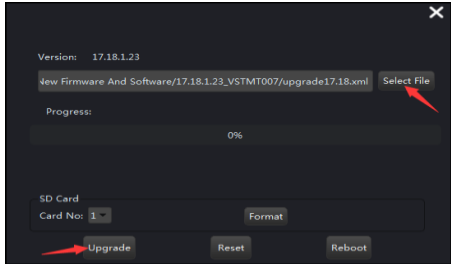

7.2 Device Manager

Click <Seach> will display all devices, If there are more than two devices, modify the IP of the exceeded devices, then click Add device.
Note: select Entrance or Exit. The Entrance and Exit will count the number of people, The user can set the limit number in the settings.
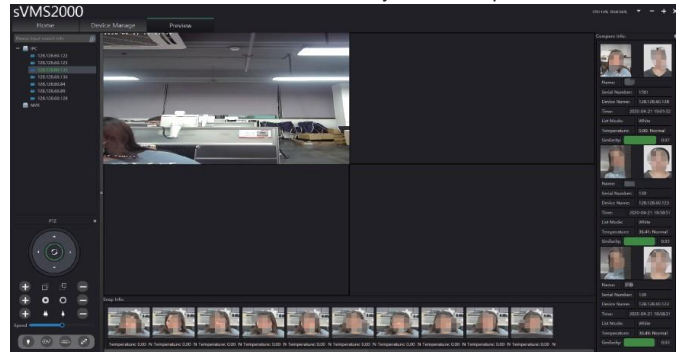
7.3 Device Configuration

Click [Upgrade] and the upgrade page will pop up;
Click [Select File] and select the update files,
Click [Upgrade], waiting the upgrade progress to 100%;
Click<Format> will clear all the face images and comparison records, attendance records of the device.
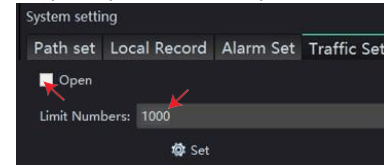

7.4 Preview

After the devices are added successfully, user can preview.

1. The middle view box displays the real-time preview video screen;
2. The middle block diagrams at the bottom displays the real-time face snapshots and body temperature;
3. The menu bar on the right displays the real-time comparison results, and comparison information: name, serial number, device name, snap time, list mode, temperature and normal or not, and face similarity;

7.5 Setting

[Setting] It is used to set local configuration item, such as change of snapshot path, download path, and face picture storage path.
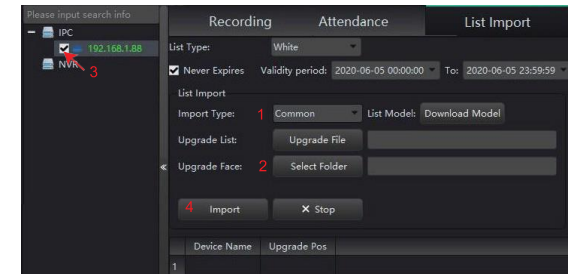

Note: The user can set the limit number in the settings. Control the social distance in the set place.

7.6 List Import of attendance

Picture specifications:
1. All pictures are placed in a folder.
2. The picture format is jpg;
3. The file name should be the same as some information of the person, so that it can be easily identified.
4. The Max resolution is 960*960 and the Min is 80*80;
   The recommended resolution is 500*500;
5. Picture file size must be less than 2M;
6. The background color of the picture is close to white.
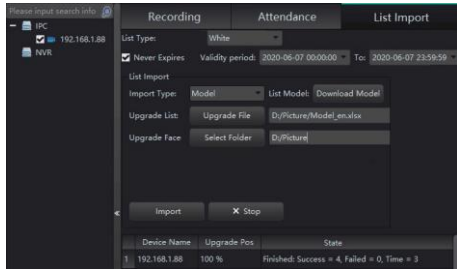7. The picture is clear and easy to recognize.

1 Import simple data

The picture file naming format is name_userID_gender.jpg;
Note: Name and User ID is limited to characters, letters, numbers, spaces, and the number is unique;
Gender includes male and female.

1. Select <Common>;
2. Click <Select Folder> to select the folder containing all pictures.
3. Select the device to import pictures.
4. Click <Import> and wait for the import step to complete.

2 Import detailed information


```
Tips: Gender 1:Male 2: Female
```

Name	User ID	Gender	ID Number	Telephone	IC card	Picture Name
Jim	120011	1	456987186001025802	15013694562	5612301	120011.jpg
Tom	120012	1	456987186001035802	15013674562	5612302	120012.jpg
Anna	120013	2	456987186002035812	15013694565	5612302	120013.jpg

1 Select <model>;

2 Click <Download Model>, please select a folder to save the model file, please find the excel model file from the selected folder. The downloaded file is the same as the screenshot above.

Note: The user ID and IC card number are unique

3. Click <Upgrade File> to select the Excel file.

4 Click <Select Folder> to select the folder containing all pictures.

5. Select the device to import information.

6. Click <Import> and wait for the import step to complete.

7.7 List of lists

Click <List of lists> then click <Search>to confirm whether the import result is correct.

7.8 Recording

Click <Search> to view visitor information from the device, including whether the visitor is wearing a mask, body temperature, and photos. Click <Export> to export recording information.

7.9 Attendance

Click <Search> to check the attendance list. Click <Export> to export recording information.

7.10 People Counting

View the entry number and out number, Retention number.

Click <Search> to view people counting and state of each device.