

D3180S

Metal Detectors with a Fever Detection

User Guide

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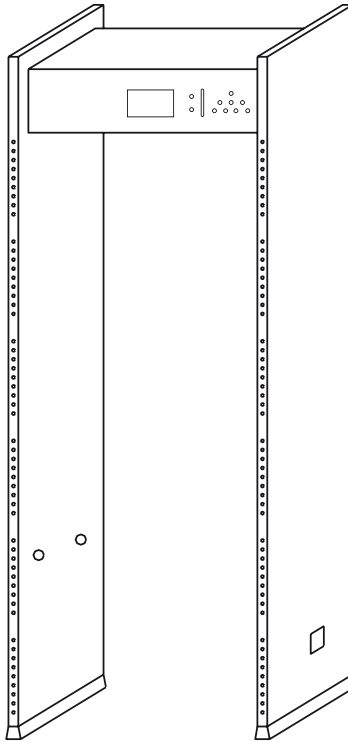
TimeTec Cloud

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1 Product Specification

Walk Through Metal Detector is mainly used to check the metal items hidden on the body. When the passengers pass through the device, if they carried metals more than preset parameters value, the device would immediately alarms, and display alarm location, let the security guard find the people with the prohibited metal articles timely.



2 Installation Environment

Stationary Metallic Items

When installing walk through metal detector, it should stay away from the stationary or fixed bulk metal items 50cm; otherwise it will affect the sensitivity, causing false alarm. Metal items such as: aluminum alloy / stainless steel doors and windows, etc.

Movable Metallic Items

The big metal items can be moved, should stay away from the device approximately 2 meters to avoid false alarm.

Floor Vibration

Strongly recommended to install on a flat and fixed surface. This avoids false alarm after installation by the movement of people walking or moving and shaking of metal objects.

Electromagnetic Radiation and Electromagnetic Interference

Because the device uses bilateral transceiver technology, therefore, any electromagnetic interference sources and electromagnetic radiation source is not allowed to stay close to the device, the recommended distance is 1 meter. The parameters of the distance are determined by the installation environment, and different installation environments with different parameters.

The electromagnetic interference sources and electromagnetic radiation sources as following:

Electrical Control Box, Radio Equipment, Interphone, High Power Motor, Power Transformer, Ac Power Lines, Thyristor Control Circuit (High Power Switching Power Supply, Inverter Welder), Engine, Motor etc.

Side-By-Side Using

When installing the devices side by side, the distance between two walk-through metal detectors cannot be less than 50cm and the device work frequency must be different. Specific distance parameters according to the actual environment and the selection of the work frequency to adjust.

3 Performance and Features

Accurate Positioning

18 overlapping network detection zone, bilateral transmit and receive, can be accurately positioned to detect objects, intuitive display of the target location.

Micro Processor Technology

The scanning electromagnetic wave generated by the microcomputer control circuit, the scanning rate can be precisely controlled.

Sensitivity Adjustable

Each detection zone has 256 sensitivity levels (0 ~ 255). Preset metal size, you can exclude the coins, keys, jewelry, belt buckle etc.

Digital Pulse Technology

Digital signal processing and filtering system, has excellent anti-interference ability.

Password Protection

Only the correct password can change the sensitivity and other parameters. Password with four digits can be set by the user.

Count Statistics

Pass count and alarm count.

Harmless to human body

Harmless to heart pacemaker, pregnant women, magnetic floppy disk, recording tapes etc.

Power Supply Security

The power supply on the top of the control box, waterproof.

Waterproof Foot Cover

Not only can fixed the device, but also waterproof.

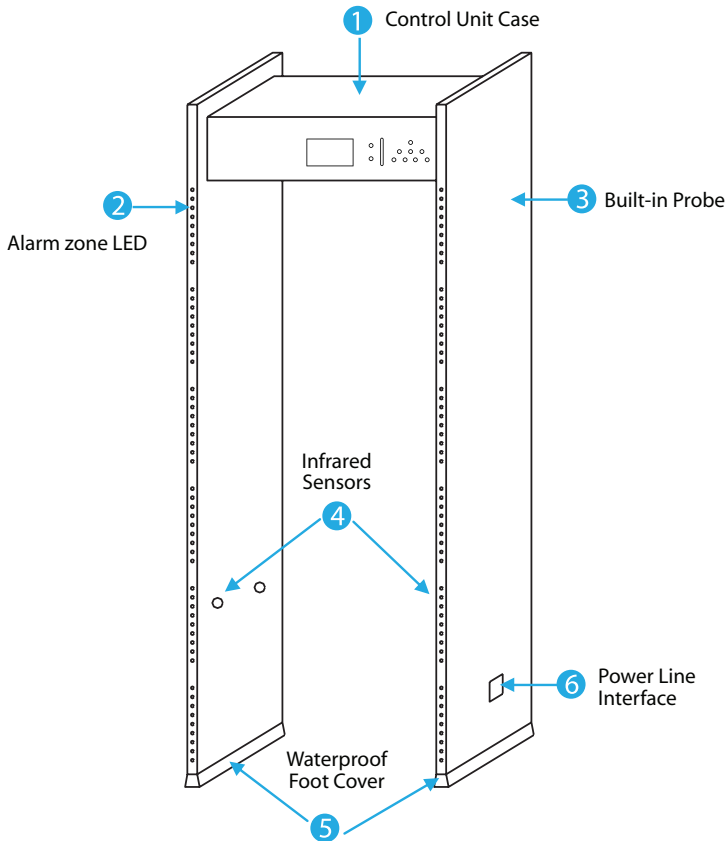
Waterproof

Using PVC synthetic material, special technology, waterproof, fireproof, and shockproof.

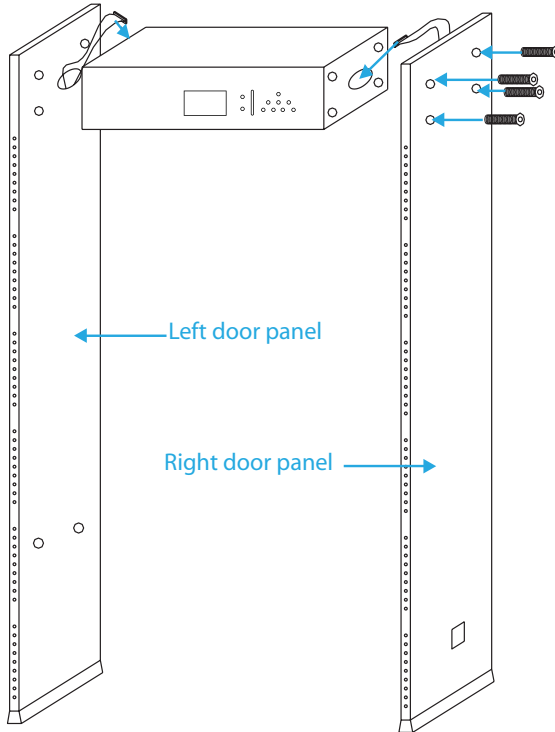
Easy to install

The system is integrated design, just 15 minutes to complete the installation or disassemble.

4 Overview

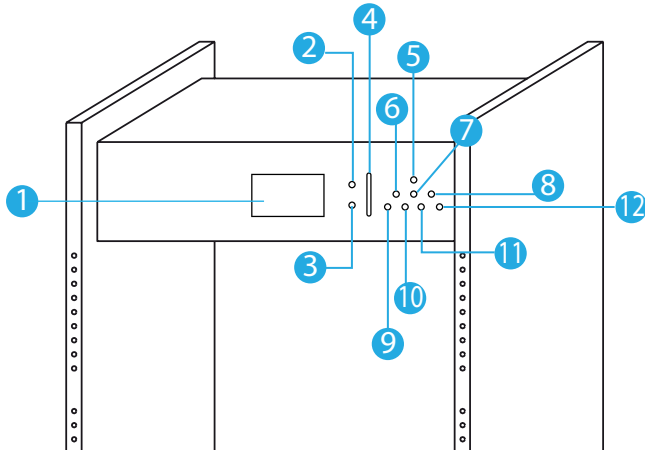


5 Installation



1. Remove the package of control unit and door panel.
2. Put the control unit case and door panels as above picture shown, then connect the left and right door panel with the control unit case by bolts and nuts. Tightening screws.
3. Probe line of the left and right door panel tight inserted into the motherboard corresponding socket respectively.
4. Lift the walk-through metal detector to the vertical position and move to the assigned position.
5. Plug power cable.

6 Control Panel



- 1 LCD display**
Display pass count, alarm count, password settings and other information
- 2 Standby indicator lights**
Non alarm status indicator (green light)
- 3 Alarm indicator light**
Alarm status indicator (red light)
- 4 Signal interference indicator**
Indicating the current environment interference
- 5 UP**
- 6 Adjustment, increasing parameter values**

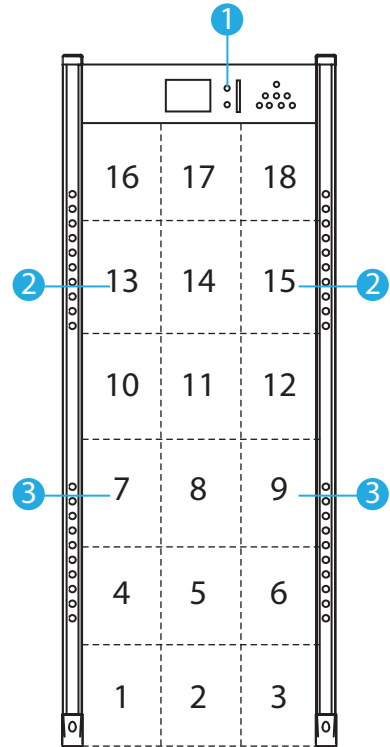
- 7 Down
- 8 Adjustment, decreasing parameter values. If press “ → ” for 5 seconds at the main interface (Showing PASS CNT and ALARM CNT), can setting total sensitivity (5-50 adjustable, 5 is the highest total sensitivity).
- 9 **MENU**
Menu interface
- 10 **ENTER**
Save settings, exit menu
- 11 **EXIT**
Do not save the settings, exit menu
- 12 **RESET**
Reset PASS CNT and ALARM CNT. In addition, press “RESET” for 5 seconds to startup or shutdown.

7 Detection Zones

1 Standby Indicators
Indicate standby working status.

2 Alarm zones display
There are Eighteen unique sets of precise positioning LED evenly distribution on the door panels, means 24 detection zones (from bottom to top is zone 1-3, zone 4-6, zone 7-9, zone 10-12, zone 13-15, zone 16-18). If the metal reaches or exceeds preset value, the red LED alarm. If there are multiple alarm targets, the LED light of each target location would be lit and with sound alarm (mute except).

3 Infrared sensor
After connected power supply, the metal detector starts to work. When there is no person or object passes the device, the infrared sensors can effectively stop alarming to avoid false alarm. And accurate count passengers and alarm times.



8 Operation

Connect the power supply. After 2 seconds into the working status, the operation method as follows:

PASS CNT	000000
ALARM CNT	000000

Showing PASS CNT and ALARM CNT

PASSWORD INPUT
INPUT PASSWORD -XXXX

Press "MENU" to input the password. The initial password is 1234.

PASSWORD INPUT
INCORRECT PASSWORD! PRESS ANY KEY TO CONTINUE

Press "ENTER". If you have input the wrong password, you cannot enter the menu.

SETTING
<ol style="list-style-type: none"> 1.SENSITIVITY LEVEL 2. ALARM DELAY 3. FREQUENCY SPAN 4. QUICK SETTING 5. SELECT LANGUAGE 6. DETECTOR ID 7. CHANGE PASSWORD 8. RESTORE TO DEFAULT

If you have forgot password, you can input the universal password "8888" to reset a new password.

After input the correct password, press "ENTER", the main menu.

SENSITIVITY LEVEL	
1~3 SENS. LEVEL	-255
4~6 SENS. LEVEL	-255
7~9 SENS. LEVEL	-255
10~12 SENS. LEVEL	-255
13~15 SENS. LEVEL	-255
16~18 SENS. LEVEL	-255

SENSITIVITY LEVEL

Under main menu interface, select "SENSITIVITY LEVEL", press "ENTER" to set the sensitivity. Press "◀" and "▶" to change the sensitivity value, press "▲" and "▼" to select detection zones. Then press "ENTER" to save the settings.

ALARM DELAY	
ALARM DELAY	-1 SEC

ALARM DELAY

Under main menu interface, select "ALARM DELAY", then press "ENTER". The alarm time is 1 second, 2 seconds and 3 seconds for option. Default is 1 second. Press "ENTER" to save the settings.

FREQUENCY SPAN SELECTION	
FREQUENCY SPAN	-1

FREQUENCY

Under main menu interface, select "FREQUENCY SPAN", then press "ENTER". The FREQUENCY from 1 to 12 is for option. Press "ENTER" to save the settings.

QUICK SETTING	
1.	NIGHTCLUB
2.	COURT
3.	HARDWARE FACTORY
4.	SCHOOL
5.	HOSPITAL
6.	BARRACKS, EMBASSY
7.	EXHIBITION HALL
8.	AIRPORT, STATION, CUSTOMS
9.	PRECIOUS METALS, ELECTRONICS
10.	PRISON

QUICK SETTING

Under main menu interface, select "QUICK SETTING", then press "ENTER" and select the applications. Press "ENTER" to save the settings.

LANGUAGE SELECTION
LANGUAGE - ENGLISH

SELECT LANGUAGE

Under main menu interface, select "SELECT LANGUAGE", then press "ENTER". Press "◀" and "▶" to change the language. Press "ENTER" to save the settings.

CHANGE PASSWORD
NEW PASSWORD -XXXX

CHANGE PASSWORD

Under main menu interface, select "CHANGE PASSWORD", then press "ENTER". Press "◀" and "▶" to shift, press "▲" and "▼" to change password. Press "ENTER" to save the settings.

RESTORE TO DEFAULT
ARE YOU SURE TO RESTORE? [ENT] - ENTER [ESC] - CANCEL

RESTORE TO DEFAULT

Under main menu interface, select "RESTORE TO DEFAULT". It would show below interface after press "ENTER".

9 Detection Adjustment

1. The device must be kept in a stable status in order to achieve the best detection effect (refer to the "Installation Environment"). To check if the device is in a stable status, the steps are as follows:
 - a) The device did not shake after power ON for 1 minute.
 - b) The device would not alarm when the tester did not carry any metal items walk through the detector.
2. Excluding small portable metal objects such as rings, key, belt buckle, shoes and so on. Steps to adjust are as follows:
 - a) Choose a small metal as the sample, such as keys.
 - b) Increasing the sensitivity, so that when the tester carries the sample and pass through the device, the detector would alarm.
 - c) Decreasing the sensitivity a little, carry the sample pass through the device again, if the alarm still trigger, try to reduce the sensitivity again until the device stop beeping when the sample passes through.

Note: *If you want to decrease the sensitivity in a certain zone, only have to adjust the sensitivity of relative zone. After finished the above adjustment, the metal which smaller than the sample will not alarm, but the metal objects bigger than the sample can be detected accurately.*

3. Traffic regulations:
 - a) Draw a waiting line for 50cm away from the device, so that the passengers can line up and pass one by one.
 - b) Before the passengers walk through the device, they should remove all the carried metal objects (such as keys, mobile phone, watch, coins, etc.), place on the side of security chute or a table, and pick it up after security checking.
 - c) Passengers should line up one by one to pass through the device. Please do not crowd, walk through with normal speed. Do not intentionally rush through and do not crash the door panel.
 - d) If the devices alarms when someone is passing through, it is an indication that some metal objects are concealed on the body. The security guard can use a hand-held metal detector to accurately detect the hidden position all according to the alarming zones.

10 Brief Maintenance

Infrared sensor cannot count

- Make sure the probe cables are well-connected with the door panels.
- Ensure there are no other infrared interferences beside the device, such as: infrared surveillance system, infrared remote control (when press button), outdoor sunlight, etc.
- If both a and b are OK, please replace the Infrared sensor.

False alarm

- If the device frequently sends out false alarms after installation, first, check the installation environment. Make sure there is no movable or stationary large metal objects within the distance of 1.5 meters. If encounter any, try to shift the device away from the large metal objects. In addition, make sure the installation is situated at a no-wind-caused shaking location.
- If the false alarm is not caused by the environment, please reduce the sensitivity of all zones.
- Change the frequency.
- Change the installation location.

