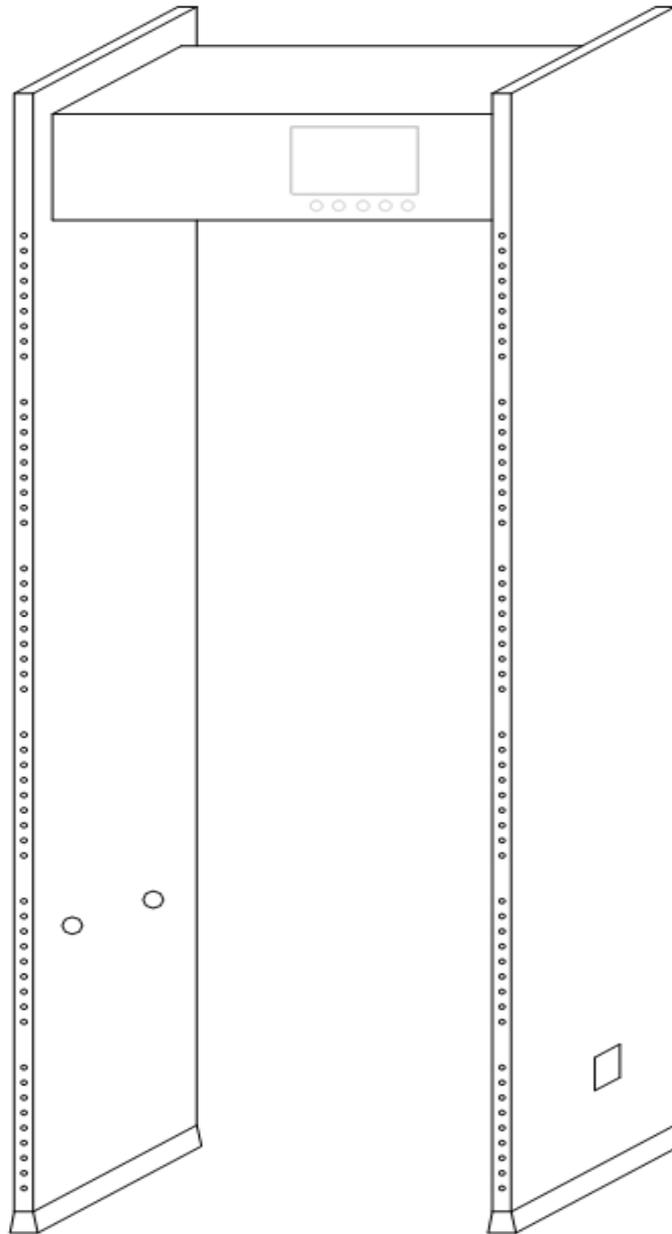※ **Please read carefully the following considerations to avoid the potential damage during installation.**

⚠

1. It's available for indoor use, if using outdoors, must be protected by waterproof canopy.

2. Choose the smooth and stable installation place, don't touch the detector during security checking to avoid false alarm.

3. Make sure there's no big metal object or strong magnetic field around the detector within 1~2 meters.

4. Detector probe mustn't install in high temperature or wet circumstance.

5. Please wait 1 minute for its self-diagnosing when machine starts.

6. Do not disassemble the control units except for the professional technician.

7. Follow the user manual carefully and make sure the right wire connection before starting.
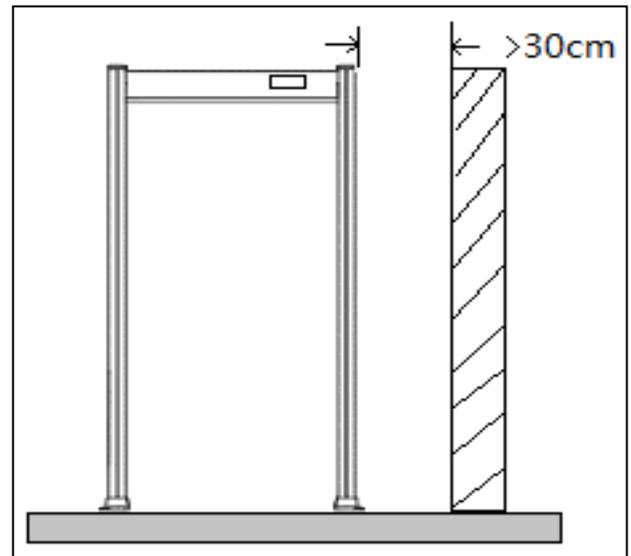
【PRODUCT SPECIFICATION】

Walk Through Metal Detector is mainly used for routine security checking. When the passengers carry metal content over preset parameters value, the detector will automatically alarm, meanwhile side LED lights will accurately indicate the alarm location. It greatly helps security guards faster and easier to find out the prohibited metal objects, such as guns, knives, keys…etc.
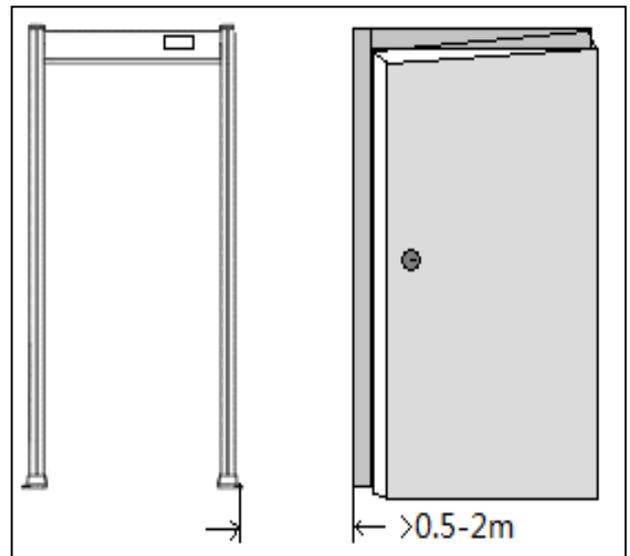
【INSTALLATION GUIDE】

1. Stationary Metallic objects

When installing walk through metal detector, it should stay away from the stationary or fixed bulk metal items at least 30cm; otherwise it will affect the sensitivity, causing false alarm. Metal items include aluminum alloy / stainless steel doors and windows, with reinforced wall, etc.

2. Movable Metallic Items

Installation near movable items, it should stay away from the detector at least 0.5-2 meters to avoid false alarm. Especially install the detector at factory gate or ground floor.Pls pay attention to the effect of rolling gate, iron security doors, elevators and cars on the detector.
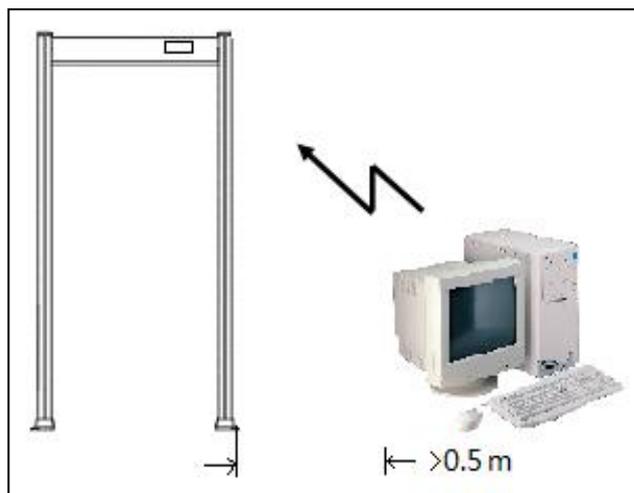
3. Vibration effection

The installtion ground should be flat and fixed, to prevent vibration. Especially when there is unstable metal articles under the detector, the vibration will course unnecessary alarm.

4. Electromagnetic Radiation and Electromagnetic Interference

The detector use bilateral transceiver technology, therefore, any electromagnetic interference sources and electromagnetic radiation source is not allowed to close the detector. The recommend minimum distance is 0.5m to 4 m, and actual distance will depend on environment and sensitivity.

The electromagnetic interference sources and electromagnetic radiation sources are as follows:

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

5. Tips for working in line

When installing the detectors in line, the distance between two walk through metal detectors cannot be less than 50cm. Specific distance parameters according to the actual environment and sensitivity level.
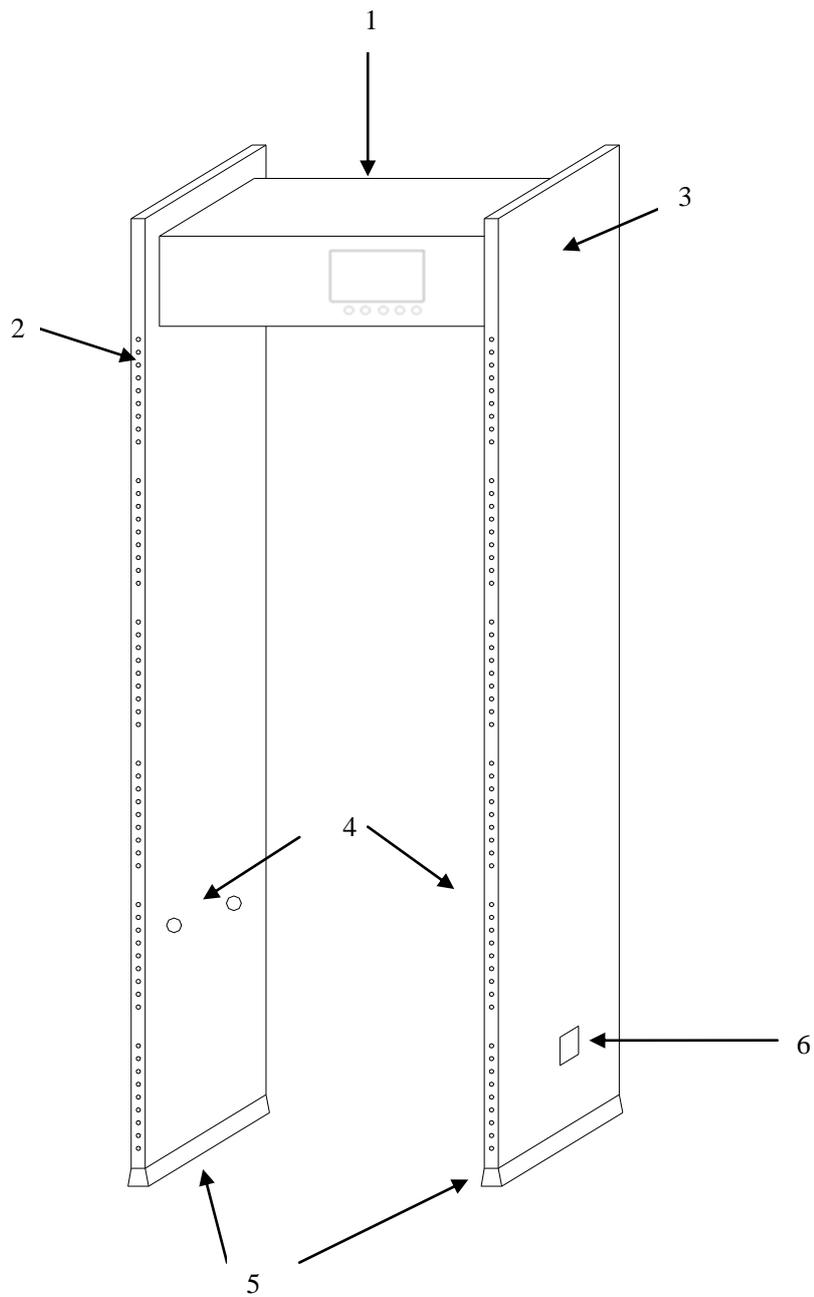
6. Can not install the detector in windy place

It would cause false alarm if the detector swing in the wind during working.

PERFORMANCE AND FEATURES 】

- **Multizones zones:** 8/16/24 overlapping detection zones, bilateral infrared sensor.

- **7 inch LCD** screen display ,English Software ,easy to operate.

- **Sound & LED alarm**: Two Sides LED indicator easily show where the metal is.

- **300 level Sensitivity Adjustable:** each detection zone has 300 sensitivity levels .Preset metal size, you can exclude the coins, keys, jewelry, belt buckle etc.

- **30   preset programs** for security applications

- **DSP Technology:** digital signal processing technology and excellent anti-interference capability.

- **Power Supply Security:** AC adaptor

- **100 frequencies** for option. To work with neighbouring gates at 40cm

- **Alarm volume** range from level 1 to 20.

- **Alarm tones**: Change from 1 to F (16 different tones for choosing)

- **Detecting speed**: up to 100 passenger/ min.

- Anti-interference function, using advanced interactive transmitting and receiving to avoid interference.

- **Password Protection:** The sensitivity and programing parameters can only be changed by the authorized person with correct password. It's to avoid misoperation

- **Harmless to human body:** harmless to heart pacemaker, pregnant women。

- **Easy to install:** the system is integrated design, just 5 minutes to complete the installation or disassemble.

- **Li-Battery backup for 4-**8 hours for option .

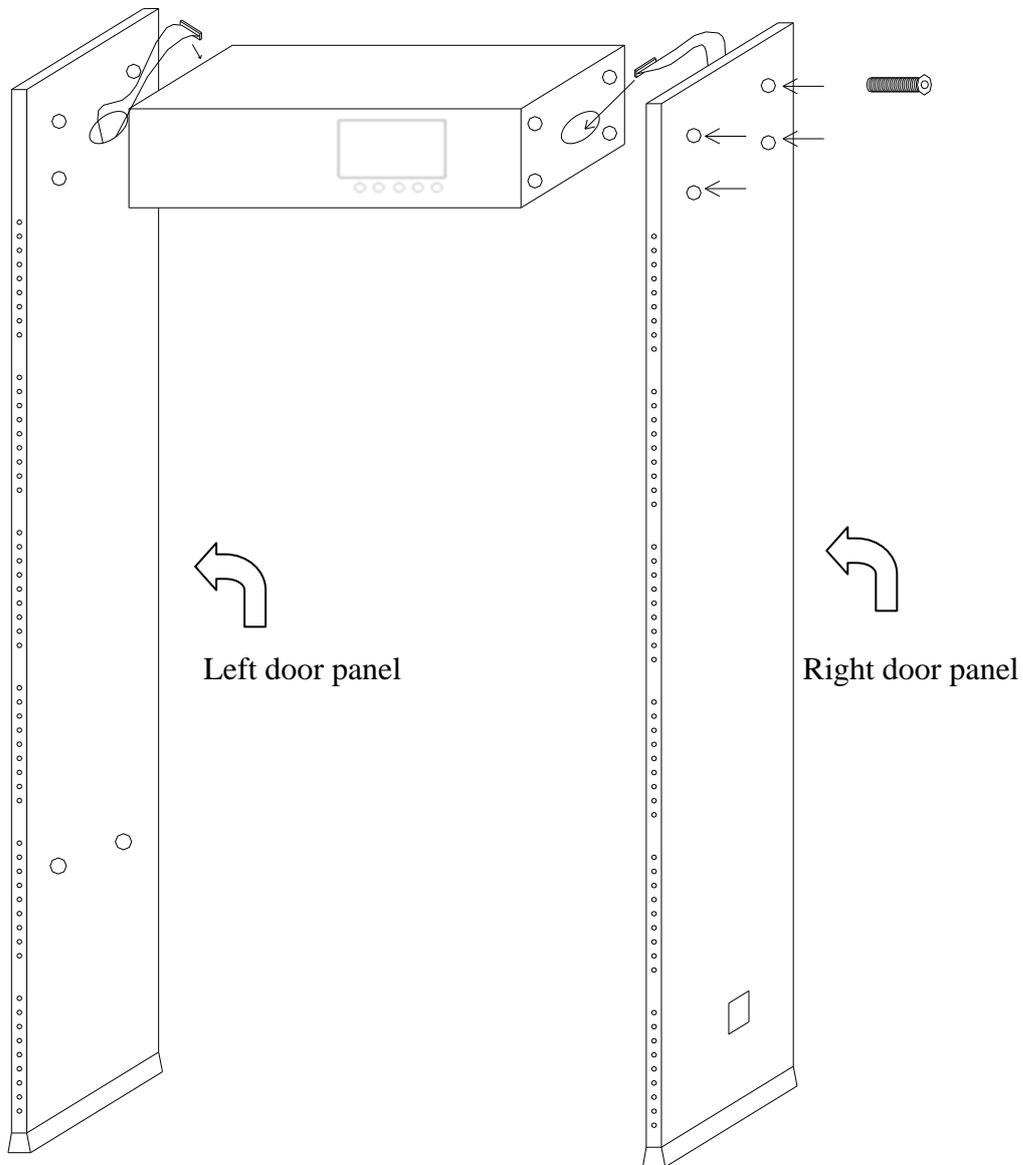# 【PARTS】

1. Main Control Unit   2. Side LED indicator

3. Side door frame panel   4. Infrared Sensor

5. Waterproof Foot Cover   6. Power supply socket

【INSTALLATION】

Left door panel   Right door panel
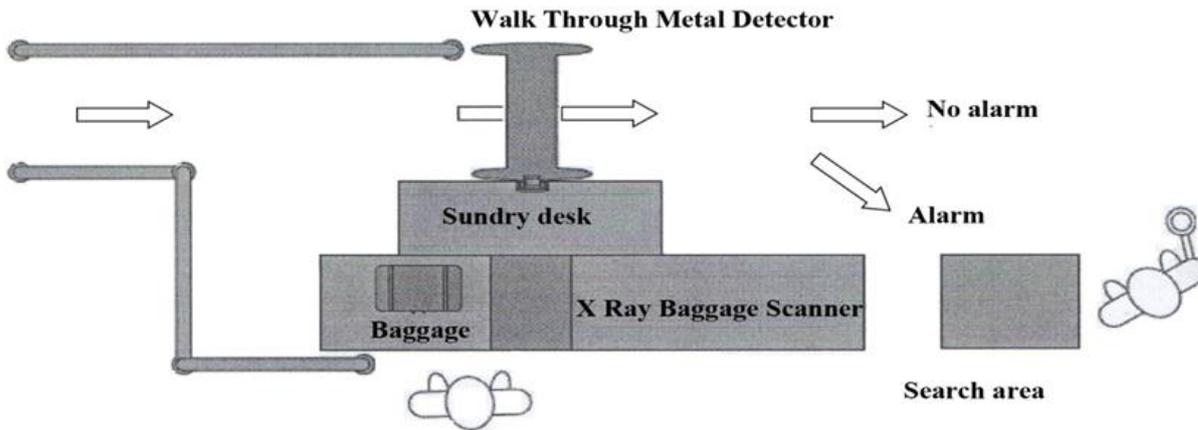
1. Remove the package of control unit and door panel.

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. Tighening screws.

3. Probe line of the left and right door panel tight inserted into the motherboard corresponding socket respectively.

4. Install the screw on the control unit case cover.

5. Lift the walk through metal detector to the vertical position and move to the assigned position.

6. Plug power cable

Walk Through Metal Detector

No alarm

Alarm

Sundry desk

X Ray Baggage Scanner

Baggage

Search area

【CONTROL PANEL】

ESC   UP   DOWN   ENTER   POWER   ◯ **INFRARED REMOTE CONTROL**
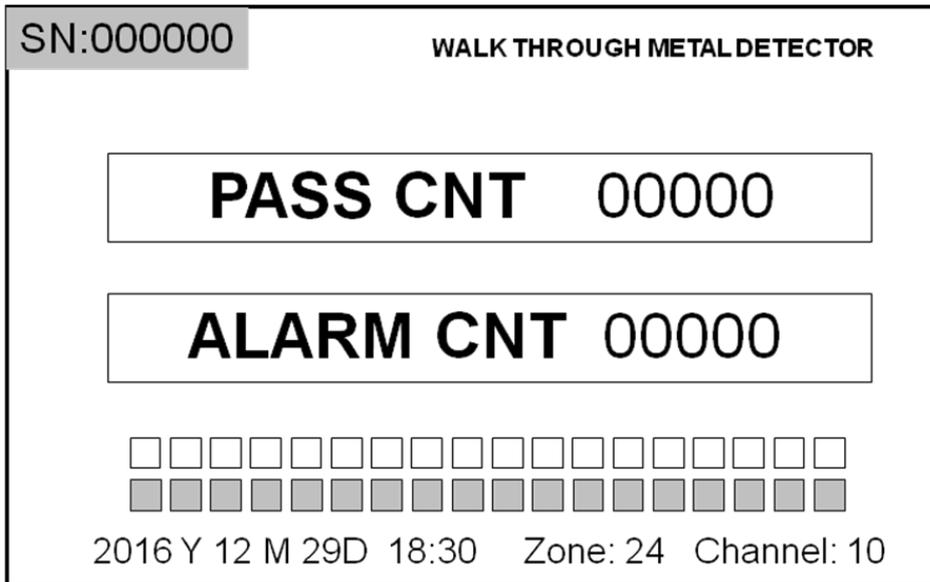
There are five buttons on the operation panel.

1. ESC: return to the upper menu or exit the program Settings

2. UP: feature shift and increase parameter

3. DOWN: feature shift and reduce parameter

4. ENTER: save data or enter to next interface

5. POWER: Turn on/off

【NORMAL WORKING STATUS】

LCD screen normal working status as below(zone 8/16/24 for option):

```
SN:000000              WALK THROUGH METAL DETECTOR


            PASS CNT    00000


            ALARM CNT  00000


         □□□□□□□□□□□□□□□□□□□□□□□□
         ■■■■■■■■■■■■■■■■■■■■■■■■
    2016 Y 12 M 29D  18:30    Zone: 24  Channel: 10
```

Normal working status information:

1. Serial number: SN: 000000

2. Number of passenger

3. Number of alarm

4. Signal Strength indicator lights (Green / Red)

Non alarm status or interference: NO indicator.

5. Calendar and time

6. Number of detect zones

7. Current working Channel

Press "ESC" key for long, to clear the current information.

【OPERATION】

Connect the power supply, it will displays START AUTOMATIC DIAGNOSIS. After finished, it will enter into the working status.

1. Input password before programming

   If you want to entering menu to set the product parameters, press "ENTER" button and input the password. Original password: 100000

   Then press ENTER to Program Setting

2. Program Setting

Program Setting	
Sensitivity	Display
Alarm	Diagnosis
Zone	Register
Time	Location
Language	Records
System	Password

a. **Sensitivity**

   Overall / Zone /Anit-Shock Sensitivity 000-300 for option

   Press ENTER to select

   Press ▲ or ▼ to shift

   Press ENTER to enter to next menu

   Sensitivity setting：

   Overall sensitivity: when overall sensitivity level changes, all zones sensitivity change.

Overall sensitivity level range from 0 to 300, the bigger number, the higher sensitivity.

Progress bar show the parameters

Press ENTER to save the sensitivity

Zone sensitivity: adjust different sensitivity for each zone separately.Sensitivity level range from 0 to 300, the bigger number, the higher sensitivity.

b. Alarm

Audio Alarm lasts: the audio alarm time range from 1s to 9s.

LED alarm lasts: LED light alarm last from 1s to 9s.

Alarm volume range from level 1 to 20.

Alarm tones: Change from 1 to F (16 different tones for choosing)

c. Zone

Zone Setting: Program the quantity of detect zone

Press ENTER to select

Press ▲or▼ to shift

Press ENTER to save

Zone Seting
01 Detect zone
08 Separate detect zone
16 Separate detect zone
24 Separate detect zone

d. Time

Date and Time setting: Set the WTMD at accurate date and time. Wrong setting will affect the working.

Press ENTER to select

Press ▲ or ▼ to shift

Press ENTER to save

e. Language

System Language: English

Customized Language are acceptable

f. System

Working Channel: total 100 different channels to choose, to avoid interference from WTMD side by side.

Detect speed: range from 1 to 100 person per minute

Power condition: ON/OFF

ON: Once power on, WTMD automatic start to boot

OFF: When power on, WTMD standby, need press POWER button to start

g. Display

Display mode: Indoor/outdoor

LCD light: 1% to 100% adjustable

Press ENTER to select

Press ▲ or ▼ to shift

Press ENTER to save

h. Diagnosis

Problem Diagnosis:

Left/right door panel: select to diagnosis the door panel. Once problem, system will show you error code.

Audio Alarm: select to diagnosis, audio alarm will on for test purpose.

LED: select to diagnosis, LED alarm light will on for test purpose.

i. Location

Application spot: There are 30 different choices. The user can choose the accurate spot and then adjust sensitivity to get the best match setting.

j. Records

Show alarm records, system working hours, passenger amount.

Input start and end time to find record

Press ENTER to select

Press ▲or▼ to shift

Press ENTER to save

k. Password

Amend password

Press ENTER to select
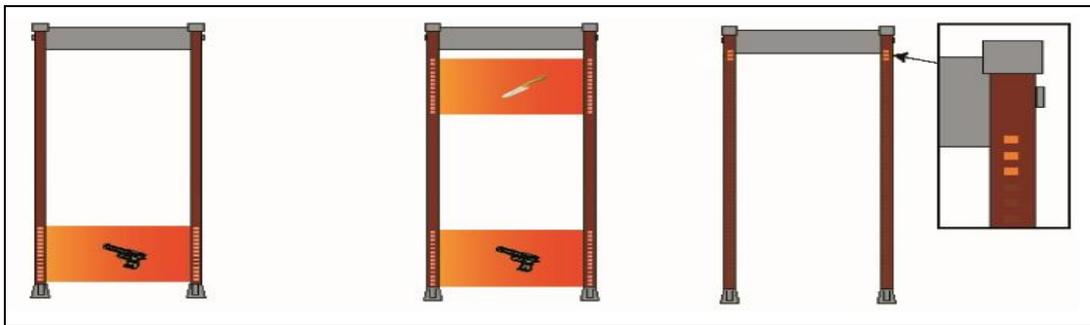
Press ▲or▼ to choose number.

Press ENTER to save

After setting, you can press ESC to exit and back to normal working status.

【MULTIZONE INDICATION】

WTMD can give LED light alarm to locate the metal threats, at the corresponding height. When alarm, one or more sets of LED lights will be on, indicating the position of metal objects.

In the case of no alarm, two power lights on top of each door panel will keep flashing.

| **Alarm for single metal threat** | **Alarm for two metal threat** | **Power indicator lights** |

There are four choices of alarm zone: 1 zone, 8 zones, 16 zones, 24 zones. The user can program in menu Zone Setting. Sensitivity level of each zone can be adjusted separately.

【DETECTION ADJUSTMENT】

1. The detector must be in a stable status to achieve the best detection effect (refer to the "Installation Environment"), to check whether the detector in a stable status, the steps as follows:

a. The detector is not shaking after power ON for 1 minute.

b. The detector would not alarm when people didn't carry any metal items.

2. Excluding small portable metal objects such as rings, key, belt buckle, shoes and so on, according to the following steps to adjust:

a. Choose a small metal as the sample, such as keys.

b. Increasing the sensitivity, so that when the tester carry the sample and pass through the detector, the detector would alarms.

c. Decreasing the sensitivity a little, carry the sample pass through the detector again, if it still alarms, once again to reduce the sensitivity, until the detector not alarm when the sample passed 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 detector, so that the passengers can line up and pass one by one.

b. Before the passengers walk through the detector, 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 the detector, do not crowd, walk through with normal speed, can not intentionally rush or postponed, and do not crash the door panel.

d. If the detectors alarms when someone pass through, that means there are some

metal objects were hidden in his body. The security guard can use a hand-held metal detector accurately detect the hidden position according to the alarm zones.

【BRIEF MAINTENANCE】

WTMD is high-tech electrical detector. The operator is requested not only to understand the technical performance, structural principle and operating procedures, but also good at doing the daily maintenance and maintenance work. This is to guaranty working efficiency and extend detector life, and to ensure safety.

1. Routine Maintenance

To ensure the good working condition, WTMD should be checked and adjusted regularly.

Maintenance job must be done by qualified people.

Cut the electricity, in case of checking hardware.

Daily maintenance work:

● The detector should be installed in the ventilation, dust clear, dry environment, avoid high temperature, high humidity and direct sunlight.

● Clean the dust inside detector.

● Tighten the loosen components or wiring plug, if any.

● If any parts damaged, please find out the reason and solve the trouble first, and then replace it. After replacement you need to adjust sensitivity again.

● Don't leave other object ins.ide WTMD. This may course electricity accident.

2. Attention for maintenance

- Don't leave other object or water inside WTMD

- Cut the electricity and then check the detector. If have to be on power, please know the risk well, and operator should be professional qualified.

- Before repair, prevent electrostatic damage to the precision electronics.

- Before power on, make sure that all cables are connecting right.

3. Storage terms , time and attentions

Detector should be stored in a clean and dry place, excessive heat and moisture can damage the system components. If the detector will not use for a long time, it should be stored in the original packaging box.

- The storage conditions of the equipment

In the transport or storage packing condition, the detector must be set in follow condition

Storage temperature: - 20 ~ + 60 ℃ (condensate)

Humidity: 20% ~ 95%

- The storage time cannot exceed 15 weeks.

If need long-term storage, detector should have good storage conditions. The warehouse should be clean and dry, well ventilated, there shall not be corrosive gas, the relative humidity is not more than 80%, and the equipment should be in the packaging box.

4. Breakdown maintenance

(1) Infrared sensor can not count:

a. Check the probe cables were well connected with the door panels.

b. Check whether there are some infrared interferences beside the detector, such as: infrared surveillance system, infrared remote control (when press button), outdoor sunlight, etc.

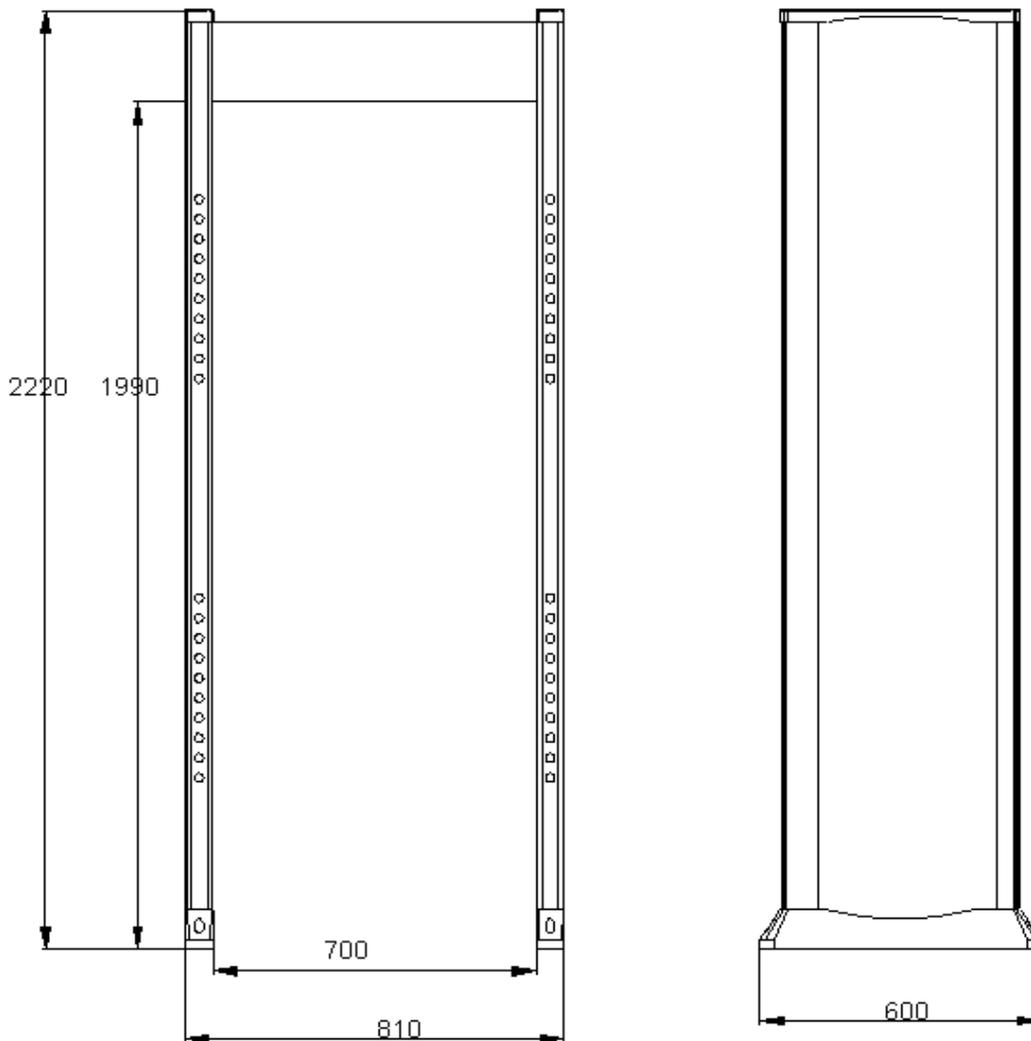c. If both a and b are OK, please replace the Infrared sensor.

(2) False alarm

a. After installation, if the detector gives false alarms frequently, firstly, check the installation environment. Make sure there is no movable or stationary large metal objects around in 1.5 meters. if any, try to make the detector away from the large metal objects. In addition, make sure the installation location no wind cause shaking.

b. If the false alarm not caused by the environment, pls reduce all zonessensitivity.

c. Change the frequency

d. Change the installation location

【PACKING LIST】

Package should contain the following items:

(1) L side panel   1set   (2) R side panel   1set

(3) Control Unit   1pcs   (4) User manual   1pcs

(5) Power cord   1pcs   (6) AC adaptor   1pcs

(7) Threaded bolt   8pcs   (8) Hex wrench   1pcs

(9) Key   2pcs   (10) Remote Controller   1pcs

【TECHNICAL PARAMETERS】

Input voltage: 100-240V, 50/60Hz   Power: <15W

Net weight: 65KG

Working temperature: -20 ~ 50℃

Sensitivity: 300 steps adjustable

Alarm: Visible and audible alarm

Inner Dimensions: 2000 (H)x 700 (W)x 500 (D) mm

External Dimensions: 2220 (H) x 810 (W) x 6000 (D) mm

(Above dimensions just for reference，please confirm the size with real products)

【WARRANTY CARD】

1. Please keep this card with reasonableness, and show it when maintaining it.

2. This card will be invalid if without the signature or stamp of the designated dealer.

Model Number	
ID	
Date Acquisition	
User Name	
Address	
User's Phone Number	
User's Fax Number	

Date of Maintenance	Record of Maintenance	Maintainer