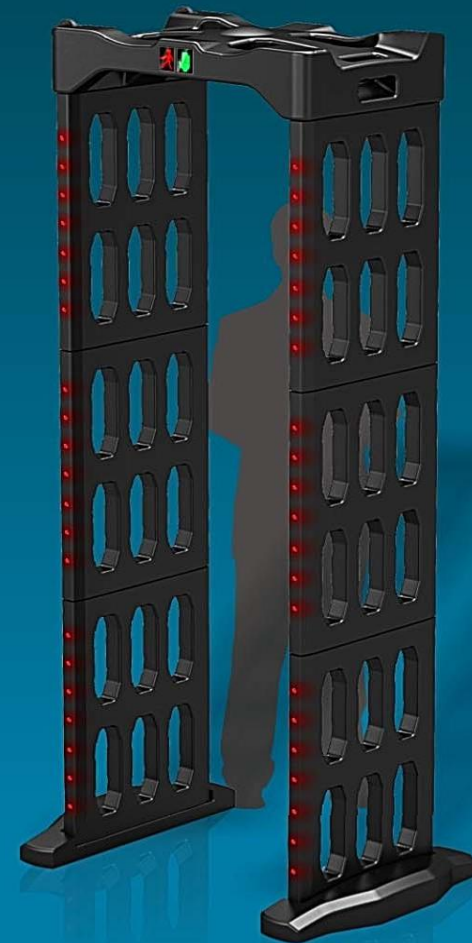


# Portable Walk Through Metal Detector User's Manual

No part of this documentation may be duplicated in any form or by any means without the prior written permission of our company.



Read this manual before using  
this product. Please keep it safe.

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## Disclaimer

Our company reserves the right of technology upgrading, parameter changing and design innovation; this documentation may have mistakes or omissions due to haste. The right of final interpretation belongs to our company.

## Security Inspection Gate

Security inspection gate (metal detector or walk-through metal detector) is usually applied in entries and exits of airports, stations, customs, procuratorates, courts, gyms and recreations to detect whether the guns, swords, knives and blunt weapons are carried in. It can also applied in entries and exits of ironware manufacturing plants, bullion jewelry factories and enameled wire manufacturing plants to prevent stealing. When the person walks through the gate at normal speed, it will detect out metals according to the preset alarming threshold and may send out an alarm and show the alarming zone.

Our security inspection gate has such strengths as:

1. Intelligent adjustment
2. Auto operation
3. User-friendly design
4. Left/middle/right zones
5. Separate zones in black metal
6. Reliable waterproof & current leakage protection

### Applications:

Airport entries/exits, custom pass, electric manufacturing plants, gyms, courts, justice platforms, prisons, VIP places in conferences, night clubs, bars, discos, etc...

Metal processing factory, chip manufacturing plants, copper & aluminum manufacturing plants, enameled wire manufacturing plants, mining factories, bullion jewelry factories, mints, etc...

### Functions and characters:

- Head-to-Toe, Zone Specific Detected.
- 200 adjustable sensibility levels.
- There are three individual detect zones
- Self calibration once power on.
- Self diagnostic, it will inform the user when exit the system.
- Memory Feature Stores Settings for last operator when power off.
- DSP and Microprocessor Controlled , login into the control panel safely.
- Automatic counting function

### Operating Environment:

- Operating temperature : -20°C to +70°C ( -4°F to +158°F )
- Relative Humidity : 95%    ● IP Grade : Ip55    ● UV protection

### Applications:

- Schools and sports event
- Meetings and VIP Security
- Outdoors security protect
- All the place that need the high sensitivity metal detect

### Technical parameters:

- working voltage : AE 100V-240V    power dissipation : ≤10W
- Standard configuration: Battery 12V/7Ah/64.5mm\*94mm\*151mm (40 hours working time )
- Gross weight : < 50 KG
- Dimensions after disassemble : 90\*58\*66( cm ), it equals a suitcase size
- Standard : FAA NILECJ-0601.02
- Digital I/O keypad with security access control, Brilliant LED Bar Graph Indicates
- Target Strength, LCD touch panel.
- Adjustable Volume Control
- Memory Feature Stores Settings for the special environment
- self test and Self calibration once power on
- Memory for the last environment and power off voice prompt
- Transportation convenience
- Trends : Single person carry
- Net weight : 90lbs
- Install and disassemble within 5 minutes
- Single person setting:
  - High Efficiency : the special detection from the top to bottom
  - Three Sensor Zones with Brilliant LED
  - Adjustable sensitivity: (200 levels )
  - Designed by customers demand
  - Designed by environments using.
  - Indoor and outdoor using
- It is made of ABS Polycarbonate alloy material, strong impact resistance and permanent using.
- Battery ( including the AC adapter and charger )
- The battery can continuous working for 40 hours
- The folded Dimensions : 37\*(0.9m)\*23\*(0.58m) ×26\*(0.66m)

**Metal detector may have several interferences during its working, such as:**

## Mechanic Interference

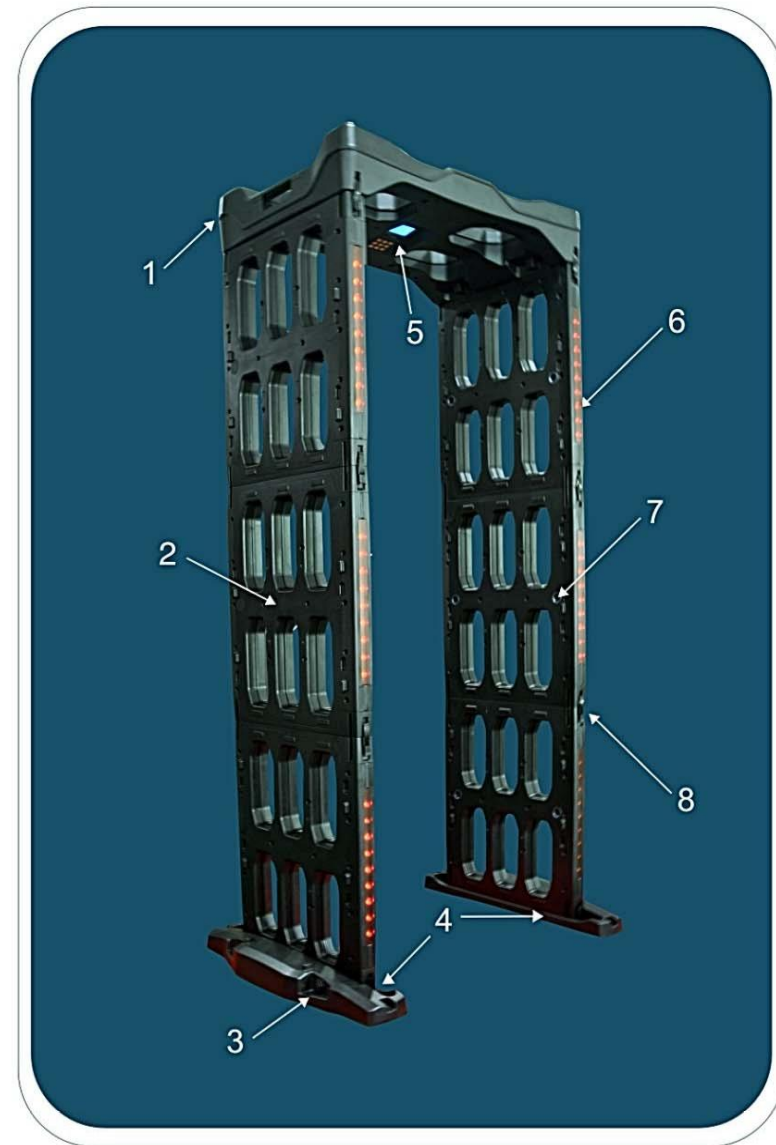
Revolving door: the detector shall be 1000mm distant from the door; make sure the door opening outward; if there are two doors, the detector shall be installed on one door, and the other is suggested to lock; if the doors are metal, it's suggested to cut one corner of the metal doorframe so as to isolate the metal loop. After the detector is installed, please rotate the door several times to check its performance.

## Electric Interference

Many objects have electric interference to the security inspection gate, such as elevator, electromotor, TV, PC monitoring line and mobile phone. Such objects shall be kept far away from the security inspection gate. If there is strong electric interference, please consult your dealer.

## Moving Objects

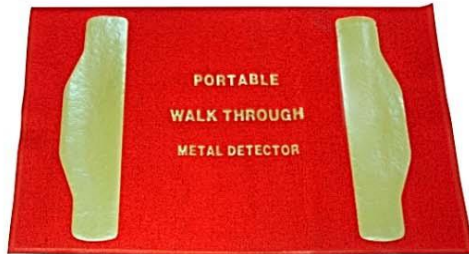
If the security inspection gate is installed too close to the roads, the moving vehicles will affect its performance. We suggest keeping the security inspection gate distant enough from the roads.



1. Mainframe    2. Folding door panel    3. Power Socket    4. Bases  
5. LCD Screen    6. LED indicator    7. Infrared sensor    8. Connection buckle

# Installation Steps

- 1、 Open the carton, and take out the carpet, then put it flat on the installation place.



- 2、 Put the left and right bases at a place corresponding to the carpet as shown.



- 3、 Installing the left and right door panels of detecting zone 1 on the both bases as shown.



- 4、 Adding the left and right door panels of detecting zone 2 on the zone 1 as shown.



- 5、 Setting up the left and right door panels of detecting zone 3 on the zone 2 as shown.



- 6、 At last, put the Mainframe on the top of the third door panel as shown.



- 7、 Make sure all the connection buckles are fasten well as shown.



## How to make the security inspection gate working efficiently in detecting explosives:

1. People shall comply with security inspection regulations when entering special occasions where security inspection is indispensable.
2. People shall wait in security line for inspection and walk through the gate in order. Do not push, otherwise the security inspection gate will be knocked against and work badly.
3. Do not walk through the security inspection gate when the last person is still under inspection. Follow the instructions of security guards.
4. Get prepared before being inspected. Take out all carry-on metal goods (such as mobile phone, laptop, MP3, MP4, coins, keys, gums, lighter, guns, knives, smoke, etc...) and put them into the basket on the platform. Security guards will check these goods and dispose guns and knives in right way.
5. Walk through the security inspection gate after getting right instructions of security guards.
6. After walking through the security inspection gate, the person will be inspected by security guards' handheld metal detectors and not be allowed to enter until he is cleared without any metal goods.

## How to make the security inspection gate working efficiently in preventing burglary:

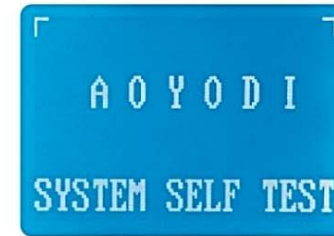
1. Security guards shall get prepared and check the security inspection gate before employees come off work. Two security guards shall stand beside one security inspection gate.
  2. According to company regulations, employees shall queue up in a line before getting home, put all carry-on metal goods on the platform or into the chute, and then pass the security inspection gate in order under the security guards' instructions.
  3. All employees shall walk through the gate at normal speed. Do not walk slowly or contact the inside of detecting doors to trigger false alarms.
  4. No moving metal goods shall be placed within 0.5m distance from the outside of detecting doors when employees are walking through the gate, otherwise, false alarms may be triggered.
  5. Once there is an alarm, security guards shall examine the suspect employee by handheld metal detector and let the next employee pass.
  6. If there is no alarm, the employee shall not linger around, otherwise it will be crowded and security inspection speed will be slowed.
- After examining all employees, the staff or security guards shall make daily record on alarming times and headcount, and shut down its power supply at last.



1. "PROGRAM" : To enter in the main menu.
2. "QSS" : Automatically setting the sensitivity.
- 3/4. "L/-, R/+" Key :
  - a. Optional choose to adjust left or right door panel.
  - b. It can change the parameter and setting when adjusting the door panel.
- 5/6. "▲▼" Key :  
Switchover up and down when step in the operation interface.
7. "⏻" : Power on or Off.
8. "ESC" : Cancel or undebug existing setting.
9. "ENTER" : Press this key to confirm each debug.

## A、Precise Debug

- 1、Power On, Enter in the operation interface as shown.



- 2、Normal Working status as shown.

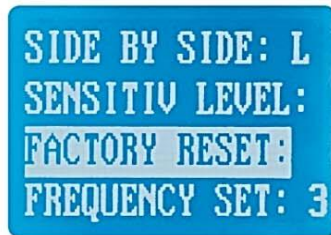


- 3、Press "PROGRAM" Key, then step in password interface as shown.

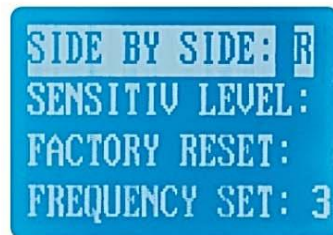
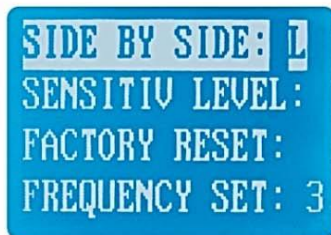


# Adjustment

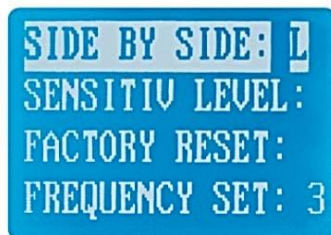
- 4、 Press “ENTER” key , then enter in function setting interface as shown.



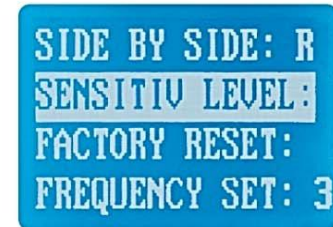
- 5、 Press “ENTER” Key , then enter in LED indicator adjust, choose L or R to switch as shown.



- 6、 Press “ESC” ,back to function setting interface as shown.



- 7、 Press “▲▼” key, back to Sensitivity adjustment interface as shown.



- 8、 Press “ENTER” Key, adjust the sensitivity as shown.



- 9、 The sensitivity setting for this model of walk through metal detector is only to adjust the three detecting door panels in the same side.

A. If you choose the right LED indicator, then you only need to adjust sensitivity of the three detect zone on the right

- Press “▲▼” Key, find the corresponding zone of the first LED indicator zone on the right, as shown in picture 1.
- Press “▲▼” Key, find the corresponding zone of the second LED indicator zone on the right, as shown in picture 2.
- Press “▲▼” Key , find the corresponding zone of the third LED indicator zone on the right, as shown in picture 3.



# Adjustment



(picture 1)



(picture 2)

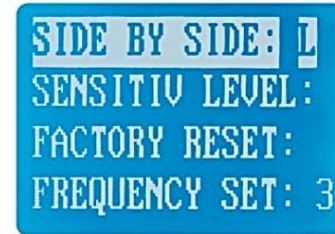


(picture 3)

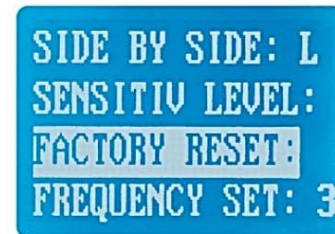
B. If you choose the left LED indicator, then you only need to adjust sensitivity of the three detect zone on the right, it is as same way as adjusting the right.

## B、Factory Settings

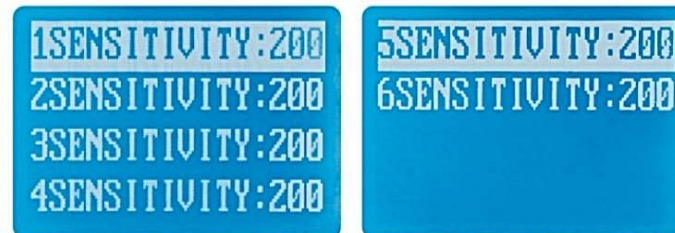
1、 Press “PROGRAM” key, enter in function setting interface as shown.



2、 Press “▲▼” key, enter in factory setting interface as shown.

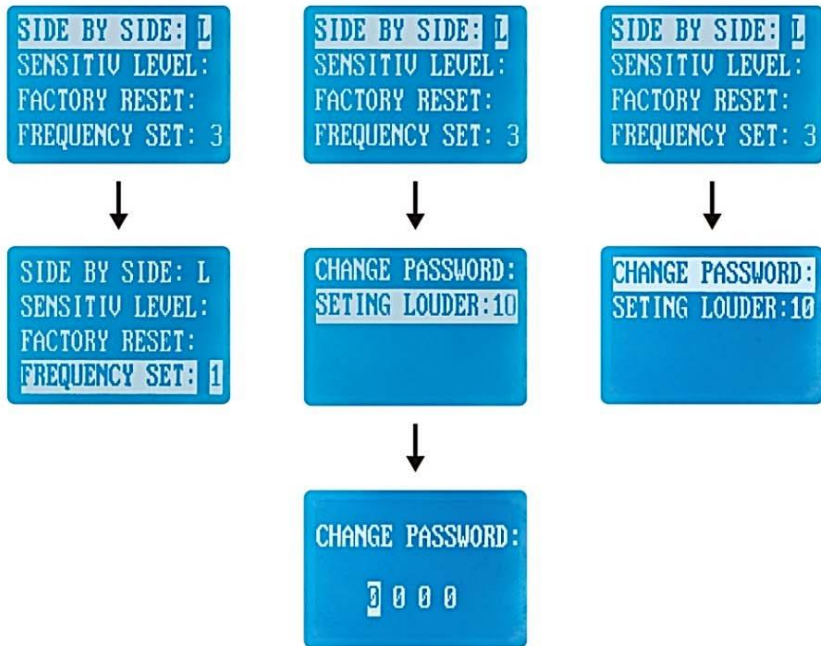


3、 Press “ENTER” Key, enter in factory sensitivity adjustment interface as shown



# Adjustment

- 4、Repeat operating the “PROGRAM” key, option key and “L/-; R/+” key to and set up all the function as shown.

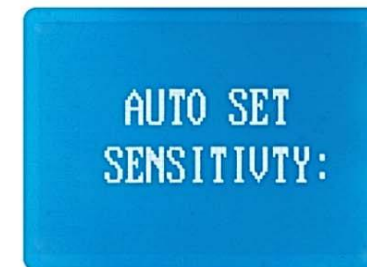


## C、Quick Setting Sensitivity

- 1、Press “QSS” key, enter in password interface as shown:



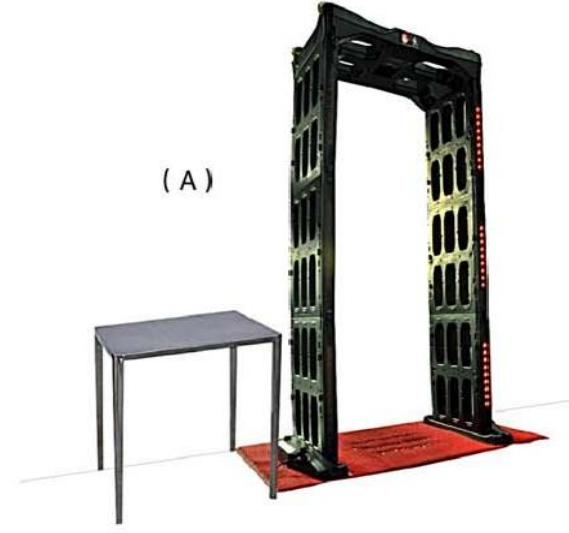
- 2、Press “ENTER” key, enter in Auto set sensitivity interface as shown:





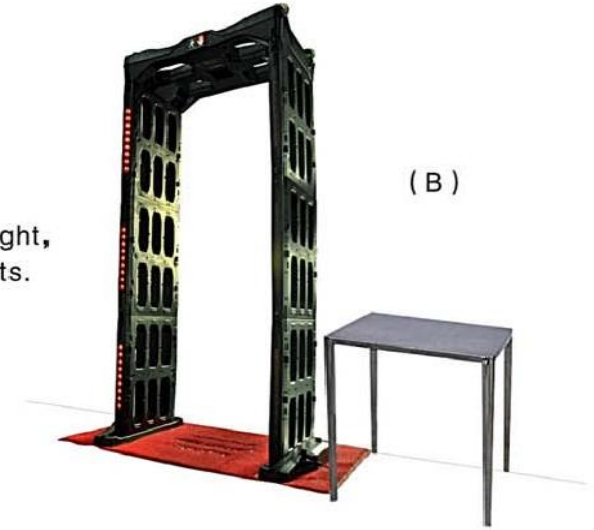
( As shown )

Running side by side, adjust the different frequencies. Otherwise, the same frequency interfere with each other.



If there is metal on the left, choose the right door lights.

If there is metal on the right, choose the left door lights.



Should this product have unauthorized maintenance, we have a right not to provide services in line with this service commitment. Should this product be malfunctioned due to force majeure, or should there be any human injuries or product damages directly or indirectly due to negligence or misoperation, we will not bear any responsibilities.

We guarantee replacement in one month, repair in one year and lifelong services to save users' worries.

1. Replacement in one month: within one month after the product is purchased, we will exchange the product if there is any quality problems (except for intended damage), which have been identified by our technical department.
2. Repair in one year: you can enjoy our one-year repair free of charge only your warranty certificate is presented.
3. Lifelong service: we will provide you consultation, technical training, maintenance and repair, accessory sale and product upgrading during the service life of your product.
4. We will provide you turn-key services free of charge from installation to debugging.

The warranty period shall be valid from the date of issuing the product invoice. Should the last day of warranty period be a holiday, the warranty period will end at the next working after this holiday.

The following are exceptions to our 3-R warranty:

- 1) Over the warranty period.
- 2) Damage caused by improper using, maintenance and safekeeping in breach of this product manual.
- 3) Damage caused by unauthorized disassembly and refitment.
- 4) Without valid 3-R warranty certificate or without valid purchase invoice.
- 5) The 3-R warranty certificate is altered by customer.
- 6) Damage due to force majeure.

The note statements below are used to notify you of correct operation. Please do read and understand it before you begin to read other parts in this manual.

1. This product is only applicable to indoor occasions; waterproof and sunscreen facilities shall be attached together in outdoor occasions.
2. Large metal or strong magnetic field shall be 2m or more distant from the gate to avoid interference; if there is any metal door around the application, the security inspection gate shall be 1000mm or farther away from the metal door (the distance depends on the size of metal door).
3. The application location shall be as far from power cables and communication cables as possible.
4. The probes shall never be installed in high temperature and humidity environment.
5. Laypeople are forbidden to take down or modulate the components on the electric control box.
6. After starting, the security inspection gate shall conduct a self-test for 1 minute before giving a best performance.
7. The security inspection gate shall be installed on flat and non-vibrating ground and shall be prevented from human bumps.
8. Each security inspection gate is attached with a warranty certificate. It can be maintained free of charge within the warranty period.
9. Before the installation, distinguish left and right detectors (doors), and make sure the signal wires and zone displaying wires are inserted into their right places.

## Routine Maintenance

1. Wipe dusts with wet cloth from the door surface every day; start/stop the security inspection gate in order way; make security inspection records;
2. Check the security inspection gate every week to ensure the security inspection more efficient and accurate
3. Remove dusts from the mainboard in the security inspection gate host every season to lengthen its service life
4. Check the gate performances every 6 months to adjust the sensitivity parameters, so the security inspection gate can stay in best performance