WDLINK

MANUAL CONTENTS

WD6180

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Walk Through Metal Detector Instruction Manual



WARNING

SAFETY INFORMATION, INSTALLATIONS AND GENERAL GUIDE

- It is important to refer to the instructions in this manual during the installation, operation, and maintenance of the equipment.
  Not responsible for any damage to the equipment due to improper use or not following the instructions in this manual.
- Please read this manual carefully before installing, operating, and performing maintenance on the equipment. When not using this manual, keep it intact.
- Follow the manual technical instructions for all operations regarding the equipment, including installation, use and maintenance.
- All personnel performing operations on the equipment must be adequately prepared and should understand the procedures described in the manual.
- All operators and installers should comply with existing regulations regarding electrical and personal safety when installing and commissioning equipment.
- This manual must be kept with the equipment until it is damaged

USER WARNING

- Perform regular maintenance. Do not use water, liquid cleaners and chemicals to clean the equipment. Use a slightly damp, soft cloth to clean the equipment.

- Always disconnect all power sources before servicing, cleaning and moving equipment.
- Any faulty part must be replaced using the relevant specification parts designed for this equipment.
- Avoid, as far as possible, maintenance or repair of equipment while it is energized or in operation; if repairs must be made in such cases, they must be done by skilled technicians who understand the hazards.

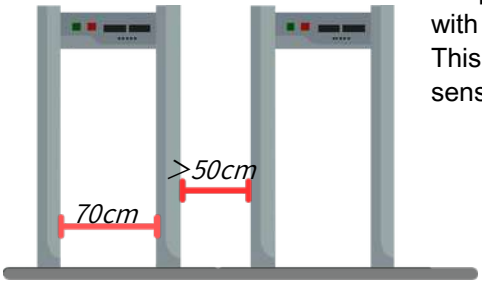
INSTALLATION PRECAUTIONS

Welcome to use our series of metal detection doors, the following safety precautions are intended to tell you how to safely and correctly operate this product. Please read them in detail and make sure you understand them before you start reading the rest of this booklet.

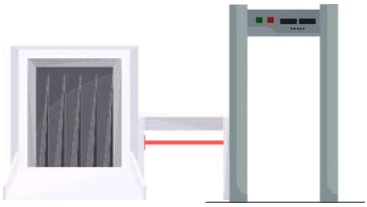
- All operators and installers shall comply with existing regulations on electrical and personal safety when installing and commissioning equipment.
- The installation site should be carefully selected to avoid direct exposure of the equipment to sunlight or near heat sources, and to avoid shaking the equipment, dust, humidity, rain, and high or low temperatures.
- Installation must be carried out by qualified personnel. Depending on the size of the equipment, the installation site is required to be kept clean to facilitate installation and setup and to avoid any third party damage.
- After installation, the equipment must be stable and not shake or move occasionally. All connections must be properly secured against vibration and sudden failure in order to get the best out of the equipment.
- Do not apply external forces to the equipment during installation, use and maintenance.
- The installation site is as far away as possible from the power lines and communication cable lines.
- Non-professional personnel shall not disassemble the components on the electrical control box without authorization.
- There should be no large pieces of metal and strong magnetic fields within 2 meters around the detection door to avoid interference. If the installation site near the channel has a metal door frame, metal detection door and the distance between the metal door must be more than 500mm (depending on the size of this door); should exclude, for example, generators, televisions and other electronic products working at similar frequencies, should be avoided, such as revolving doors, to and from vehicles and other large moving metal objects; use two or more products, should avoid products working at the same frequency.The installation site is as far away as possible from the power lines and communication cable lines.
- After the security door is turned on, it must be self-checked for 1 minute to achieve the best detection effect.

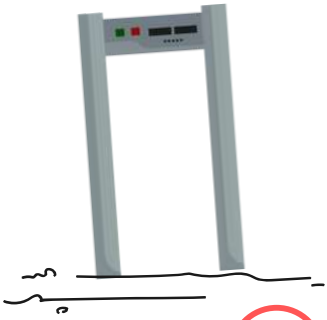
GENERAL GUIDE

The distance between door panels should be kept at 70cm, and the distance between two doors should be kept at least 50cm when placed side by side.

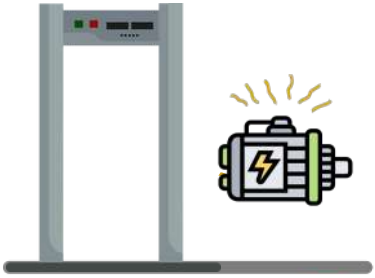


Keep a distance when using it with x-ray baggage scanner. This distance depends on the sensitivity.



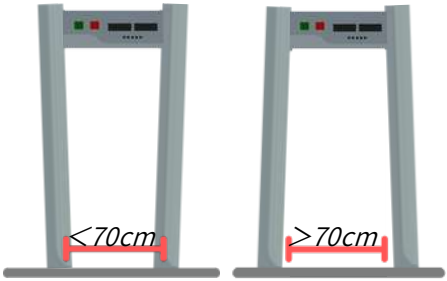


Tilt installation



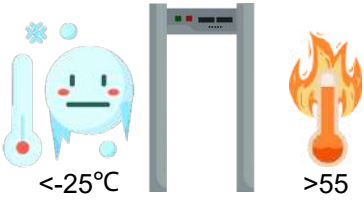
Motor interference





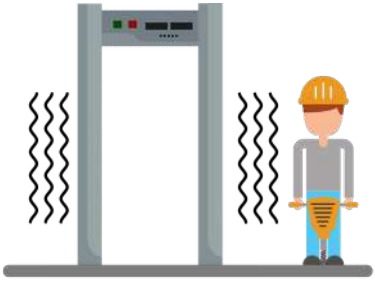


Windy
environment

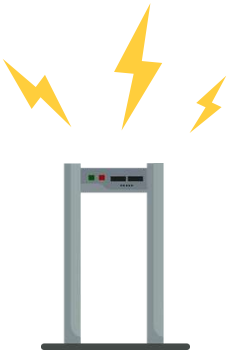


High and low temperature℃
environment

Vibration interference



Lightning environment



PROPER USE OF EQUIPMENT

The metal detector door is a device that responds to a person carrying a large amount of metal through the door body. As part of the normal inspection procedure, the subject is required to walk through the detector door. A complete analysis requires a person to pass through the door completely.

MEDICAL SAFETY INFORMATION

- Comply with the standards for human exposure to electromagnetic fields
- Metal detection doors meet the regulatory requirements for human exposure to electromagnetic fields.

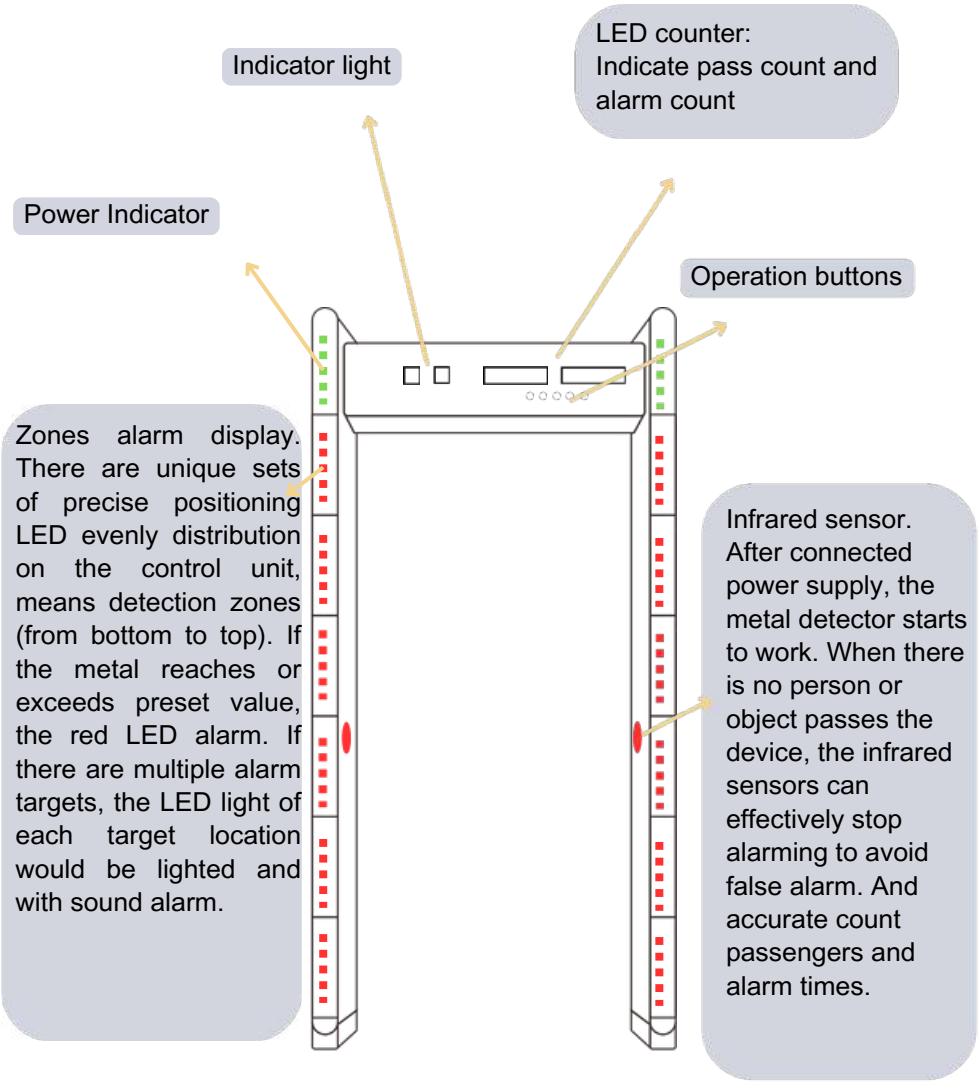
NON-HARMFUL TO MAGNETIC MEDIA

The device is non-hazardous to items carried by people, including all common magnetic media, such as magnetic cards, floppy disks and magnetic tapes

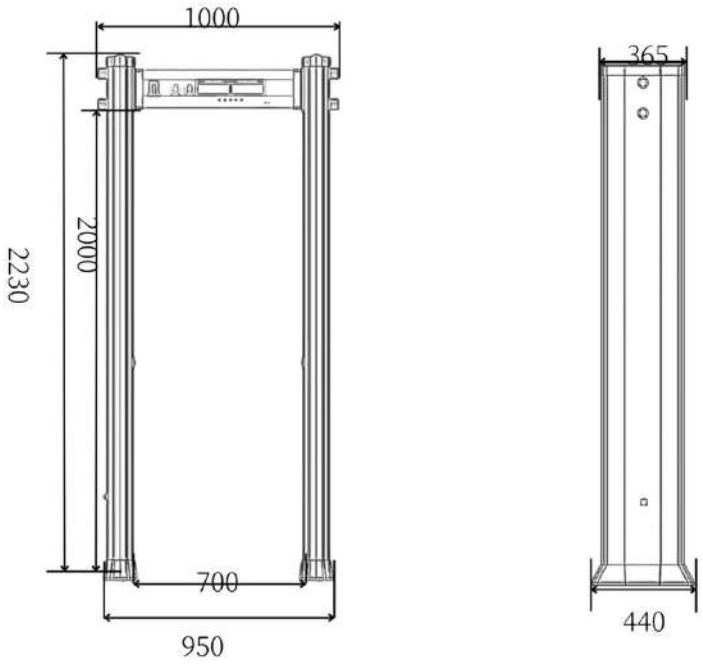
USAGE INFORMATION

The electromagnetic field emitted by the device is extremely weak and not comparable to the Earth. However, it is not possible to Excluding this possibility, there may be special restrictions on the use of certain medical devices. Therefore any recommendations or requirements made by medical personnel or medical device manufacturers regarding the use of Emfs must be implemented. If, for any reason, a person passes through the detection door and expresses fear or refuses to be examined, it is recommended that other methods of examination be used. Due to the incorrect use of metal detection doors causing direct or indirect damage to people or things, our company is not responsible.

FUNCTIONS


Indicator light
LED counter:
Indicate pass count and alarm count
Power Indicator
Operation buttons
Zones alarm display. There are unique sets of precise positioning LED evenly distribution on the control unit, means detection zones (from bottom to top). 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 lighted and with sound alarm.
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.

TECHNICAL PARAMETERS



Input voltage	100-240V,
Power	50/60Hz
Gross weight	<30W 60KG
Working temperature	-25℃ ~ 55℃
Sensitivity	2000 level adjustable
Alarm	Visible and audible alarm
Inner Dimensions	2000mm(H) x 700mm(W) x 365mm(D)
External Dimensions	2230mm(H) x 950mm(W) x 440mm(D)

ABOVE ALL THE DIMENSION ARE JUST FOR REFERENCE

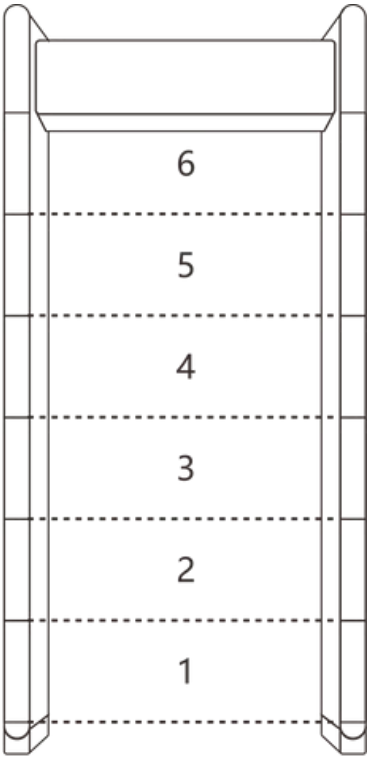
PACKING LIST

Package should contain the following items:

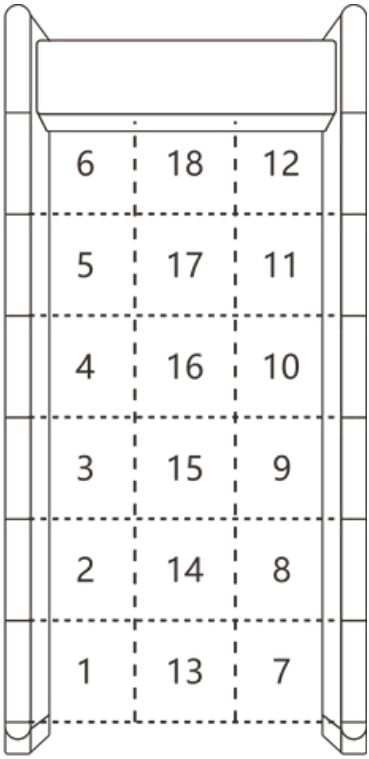
(1) L side panel 1set
(2) R side panel 1set
(3) Control Unit 1pcs
(4) User manual 1pcs
(5) Power cable 1pcs
(6) Screws 4pcs
(7) Key 2pcs

ZONE DISTRIBUTION MAP

6 zones



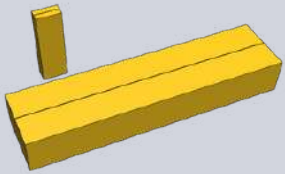
18 zones

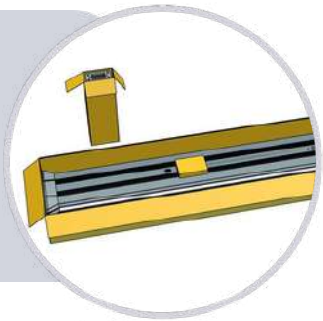


INSTALLATION DIAGRAM

Step 1

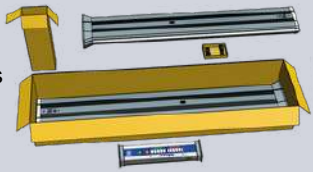
Open the package and take out the product

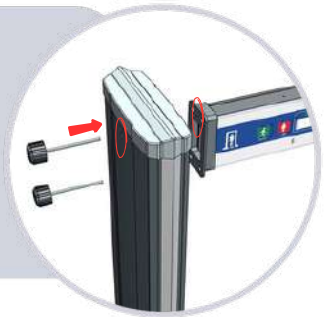




Step 2

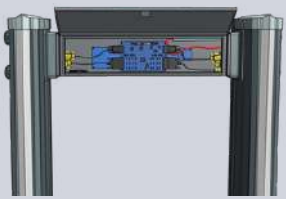
Align the two holes in the door panel with the chassis, then lock and tighten clockwise with thumb screws

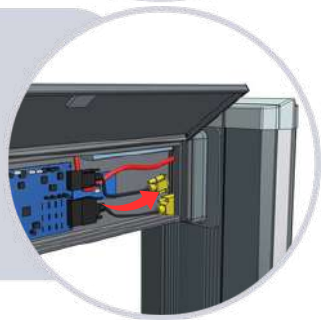




Step 3

Insert the appropriate connector into the machine box.

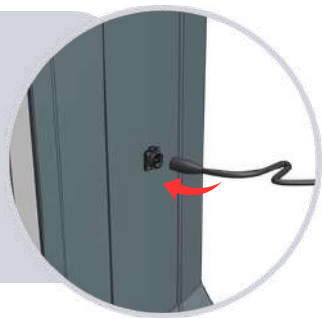




Step 4

Once the power line is plugged in, the machine will start





OPERATION PANEL

The menus for the 6 zone and 18 zone models are the same



EXIT : Back to main interface PASS CNT and ALARM CNT. MOVE : Switch to various data: password, zone sensitivity and frequency ENTER : Confirm the current value and save the data. ++ : increase the number +1 -- : decrease the number -1

OPERATION

1. Press " EXIT ", panel displays "P 0". 

   Press " ++ " 2 times, then press " ENTER ", and repeat
   Press " -- " 2 times, then press " ENTER ", and repeat
   This is to input the initial password "2288", if you have changed the password, please enter new password.

2. After finished input correct password, it shows "F 2".

   (F 2 means current frequency is 2, Frequency selection can be from 0 to 4); Normally default best frequency was selected in factory.If you want to change the frequency, Press " ++ " or " -- " , then press " ENTER " to save the changes. Press " EXIT " back to count interface Press " MOVE " enter into sensitivity setting.

3. When it shows "1- 1940" 

("1" on behalf of the zone 1, "1940" means the sensitivity value is 1940 , 0-2000 for option).

You can press "++" or "--" to change the sensitivity value. Then press "ENTER" to save the changes.

Press "EXIT" back to count interface

Press "MOVE" enter into the next zone sensitivity setting. "2- XX"

"3- XX", "4- XX","5- XX", "6- XX", "7- XX", "8- XX" is the same way to change sensitivity. XX numerical is bigger, the sensitivity is higher.

"7" is overall sensitivity, "0-2000" for option.

"8" is Exclusion sensitivity, "0-2000" for option.

"2000" means no exclusion, small metals can be detected.

"0" means exclude all metals. No alarm for metals.

4. After adjusted the sensitivity, press "EXIT" back to count interface; if press"MOVE", it displays "P 0". You can press "++" or "--" to set new password.

E.g. If you want to change password to "1199", operation as below:

Press "++", then press "ENTER", and repeat

Press "--", then press "ENTER", and repeat

It will displays "P 1199",  then press "EXIT", it will be saved.

Means password has been changed and saved successfully.

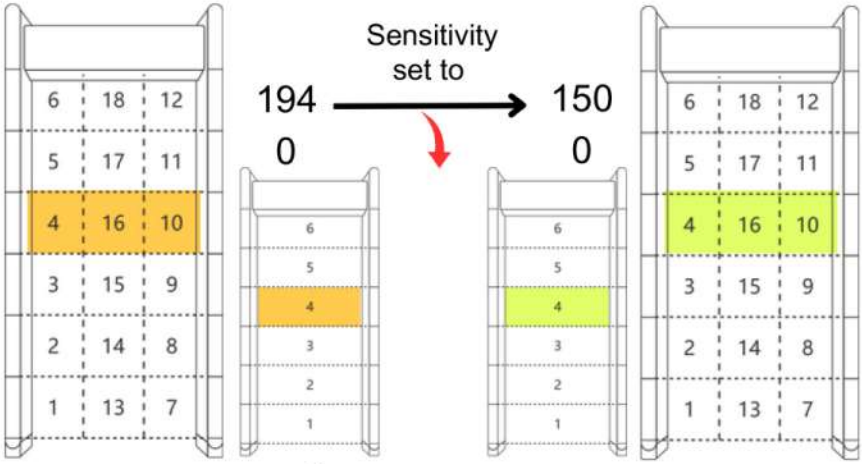
Press "ENTER" back to count interface.

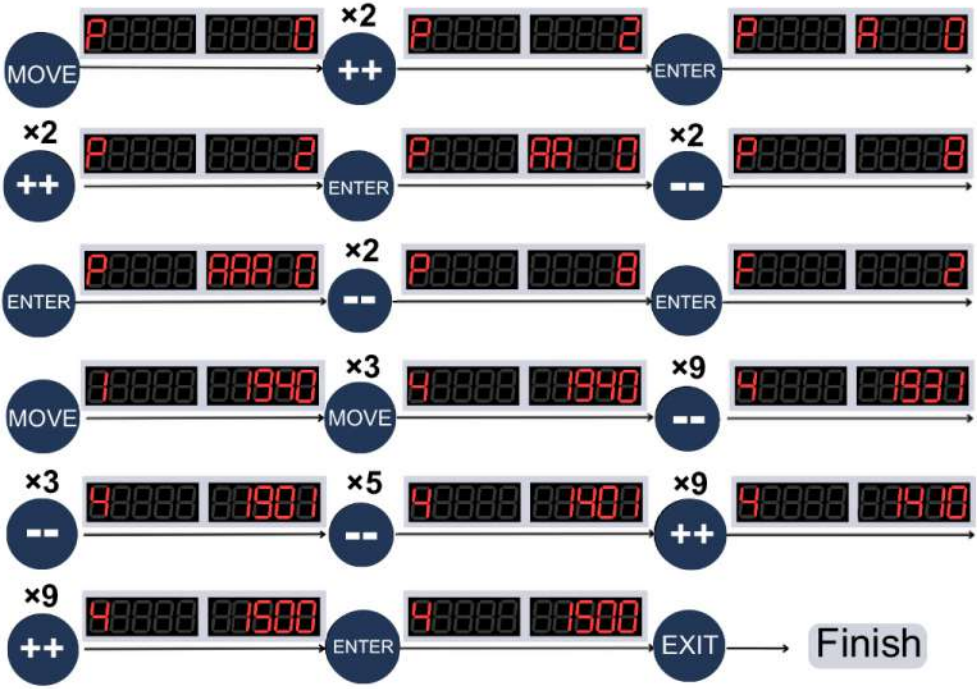
5. The device can automatically count the number of passengers and alarm times. Memory is 99999.

PRACTICAL DEMONSTRATION

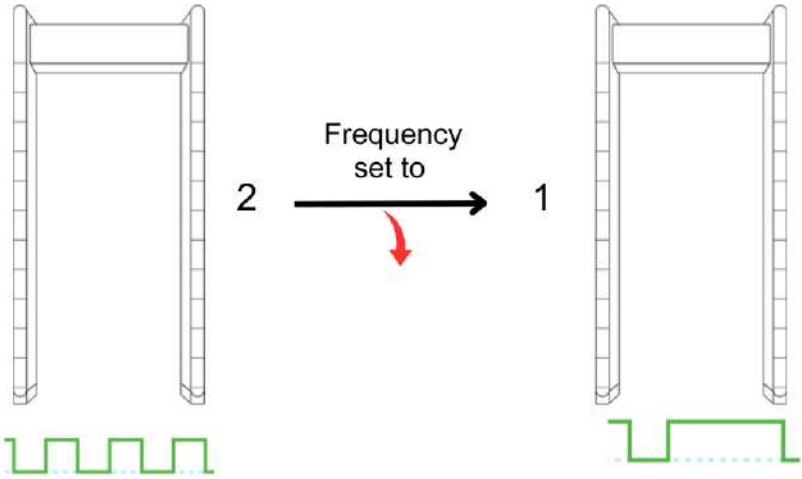
18 zones Set the sensitivity of 4, 16, and 10 zones to 1500

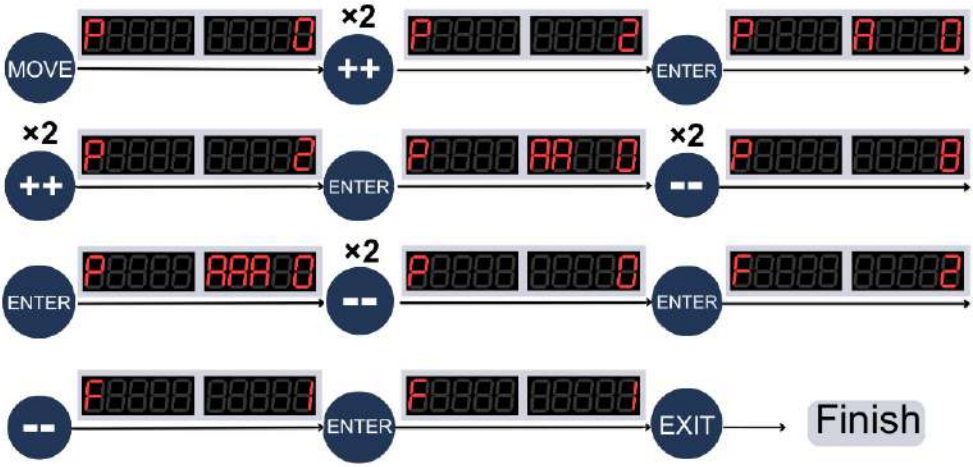
6 zones Set the sensitivity of 4 zones to 1500



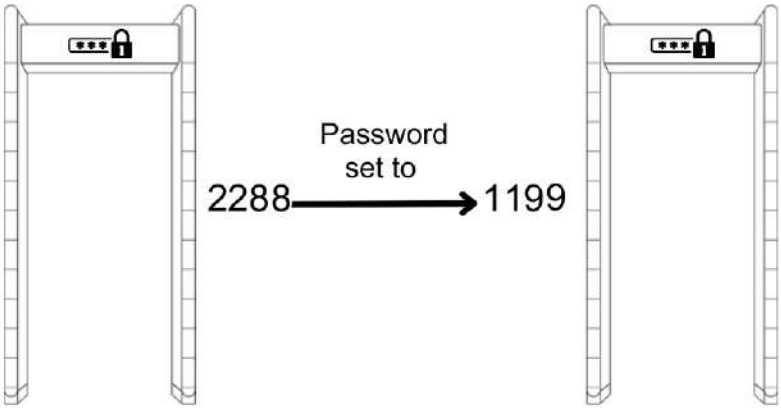


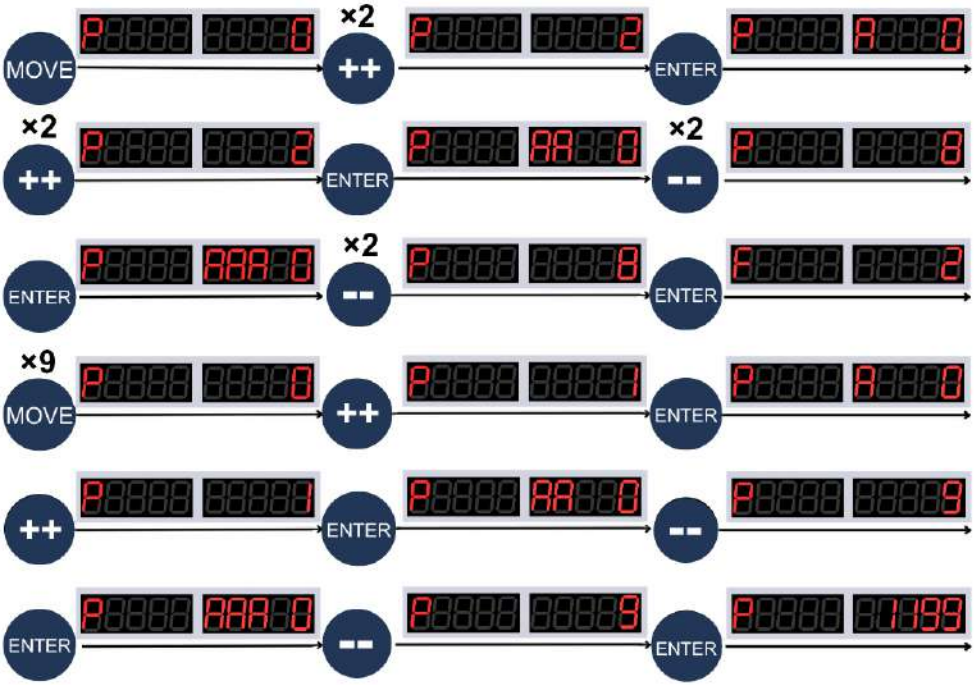
For example, set the frequency to 1





For example, change password to “1199”





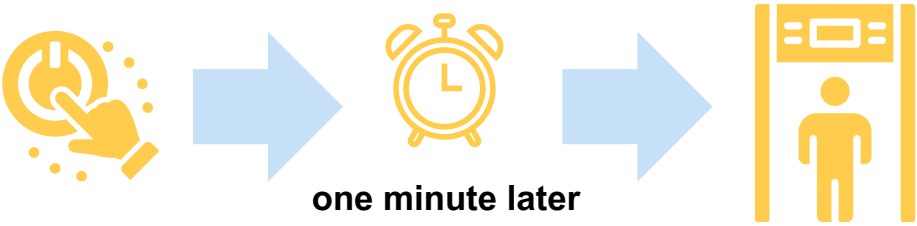
EXIT → Finish

DETECTION ADJUSTMENT

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

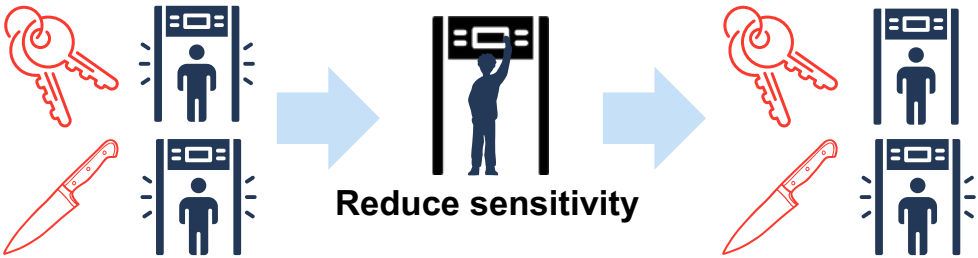
a. The device is not shaking after power ON for 1 minute.

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, according to the following steps to adjust:

- Choose a small metal as the sample, such as keys.
- Increasing the sensitivity, so that when the tester carry the sample and pass through the device, the detector would alarms.
- Decreasing the sensitivity a little, carry the sample pass through the device again, if it still alarms, once again to reduce the sensitivity, until the device 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.
If need decrease total sensitivity, you can adjust zone 7.

3. Traffic regulations:

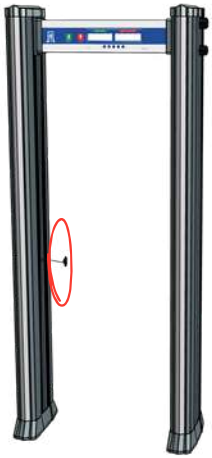
- Draw a waiting line for 50cm away from the device, so that the passengers can line up and pass one by one.
- Before the passengers walk through the device, they should remove all the carried metal objects (such as keys, mobile phone, watch, coins, etc.), place on the side of security chute or a table, and pick it up after security checking.
- Passengers should line up one by one to pass the device, do not crowd, walk through with normal speed, can not intentionally rush or postponed, and do not crash the door panel.
- If the devices 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.

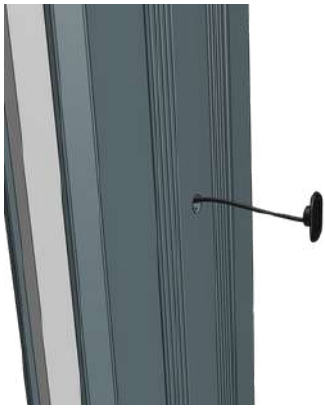


BRIEF MAINTENANCE

1. Infrared sensor can not count:

- Check the probe cables whether well connected with the door panels.
- Check whether there is some infrared interference beside the device, such as: infrared surveillance system, infrared remote control (when press button), outdoor sunlight, etc.
- If not above problems, please replace the Infrared sensor directly.





2. False alarm

After installation, if the device 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. Otherwise, try to make the device away from the large metal objects. In addition, make sure the installation location with no wind cause shaking.
- Secondly,if the false alarm is not caused by the environment, please reduce the sensitivity of all zones.
- Change the frequency
- Change the installation location

If above 4 steps are useless, please change a new mainboard to see whether it is working. If works well, then maybe PCB board problem.If still same, it will be the interference problem. We recommend moving the detectors to another place or changing the installation directions.

3. The alarm light does not light up

- Remove the top cover of the device and check whether the light bar connection socket on the top of the device is disconnected Check whether the cable inside
- the device and the motherboard is stably connected to the socket on the door panel, and whether the pins are broken or bent.





4. The device does not work when connected to power

- Check whether the plug-in power cable on door panel side is consistent with the control unit power cable side.It should be on the same side alignment.
- Use a voltmeter to check the input voltage and output voltage of the power adapter. If there is no output, then the power adapter is damaged. Also check the positive and negative poles of the output is correct.

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

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