User Manual

Walk Through Metal Detector

ZK-MD5000

Date: September 2023

Doc Version: 1.2

English

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For further details, please visit our Company's website www.zkteco.com.

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The product will be updated from time to time without prior notice. The latest operation procedures and relevant documents are available on http://www.zkteco.com

If there is any issue related to the product, please contact us.

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About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

About the Manual

This manual introduces the operations of the **ZK-MD5000 Walk-through Metal Detector**.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

Table of Contents

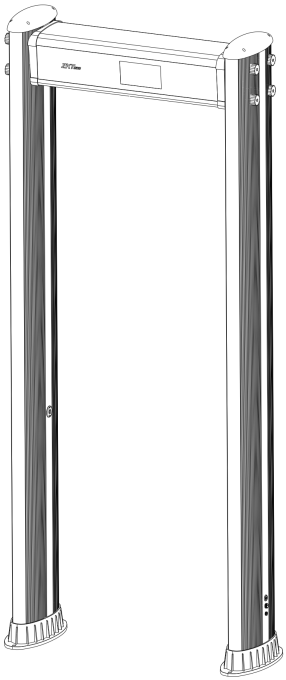
1 Overview

1.1 Introduction

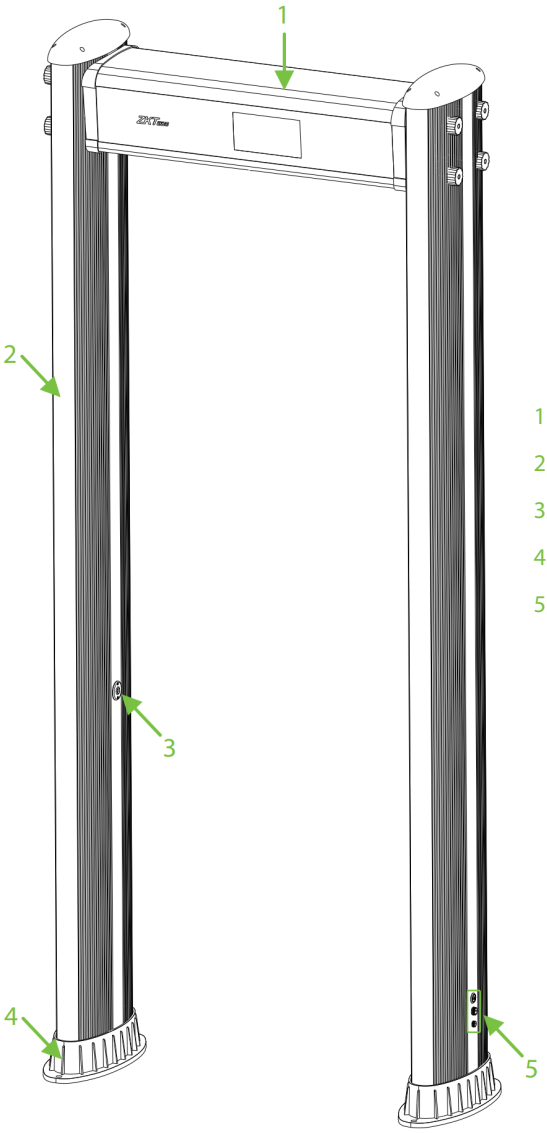
ZK-MD5000 Walk Through Metal Detector is a fixed detection device primarily used to inspect metal items concealed on the body. When a person carrying metal object(s) larger than the preset size passes through the device, it immediately generates an alarm and displays the location of the alarm. Security guards then thoroughly check the people detected with metal, and any prohibited metal articles found should be confiscated. The device is highly sensitive to magnetic metals and has a strong detection capability but is weak in detecting non-magnetic metals.

This device features faster induction, more accurate detection, higher sensitivity level, and stronger interference immunity. Unique appearance, and optional advertising screen, more suitable for application in shopping malls, scenic spots and so on.

1.2 Appearance



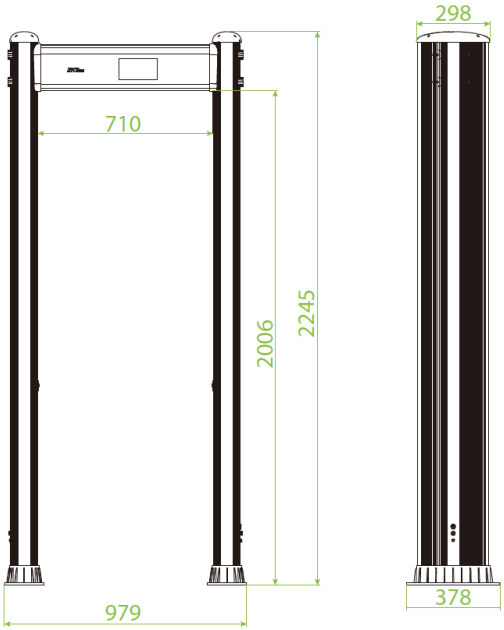
1.3 Components



1. Main Box
2. Alarm Indicator Post
3. Infrared Sensors
4. Waterproof Foot Cover
5. Power Interface, Network Interface, Reserved Linkage Interface & Power Button

2 Product Specifications

2.1 Dimensions(mm)



Front View **Side View**

2.2 Technical Specifications

Feature		Specifications
Power		DC 15V, 1.3A
Operating Temperature		-20°C to 55°C
Dimension		2245(H) x 979(W) x 378(D) mm
Lane Size		2006(H) x 710(W) x 289(D) mm
Dimension with Packaging	Door Panel	2360(H) x 462(W) x 407(D) mm
	Main Unit	812(H) x 302(W) x 268(D) mm
Package Weight	Door Panel	40 kg
	Main Unit	10 kg

3 Installation

3.1 Safety Precautions

- Install the detector in a flat and stable area. Make sure that the detector is installed firmly in the selected area.
- It can be used for both indoor and outdoor purposes. If used outdoor, it should be covered with a canopy to protect against rain.
- Before installation, make sure that the left and right door panels are placed at the corresponding location. Avoid high temperatures and wet environments.
- Wait for 1 minute for the self-diagnosis of the detector when it starts. Do not touch the detector during a security check to avoid any false alarm.
- Install the detector away from radio-frequency devices to avoid interference. Make sure that there is no large metal object or strong magnetic field around the detector for at least 2 meters.
- Do not hit the detector hard, as it may cause false alarms.
- Do not disassemble the unit without the guidance of a professional technician.
- Each device has a warranty card, with which users can have their devices maintained or repaired free of charge within the warranty period.

3.2 Instructions for the Pedestrians

- A line must be drawn at a distance of 50 cm away from the detector. And the pedestrians must cross the line one-by-one while passing through the detector to ensure a smooth operation.
- Pedestrians should walk at a normal speed. They must not deliberately form a crowd, rush, walk slowly, or damage the door panel.
- Pedestrians must remove all metal objects they are carrying (such as keys, mobile phones, watches, coins, etc.) before passing through the metal detector. These items should be placed on the security chute or a table and can be picked up after the security check.
- If the metal detector alarms when someone passes through, it indicates that there is metal object(s) conceaked on their person. The security guard can use a habd held metal detector to precisely detect the position of the metal according to the alarm zones.

3.3 Installation Site

The following section describes the requirements of the installation environment.

3.3.1 Metallic Items

The detector must be installed at a distance of 1 m from the fixed metallic items such as aluminum alloy and stainless-steel windows, doors, etc. to prevent false alarms that can affect the sensitivity of the detector. Also, the portable metallic objects must be kept at least 2 m away from the detector to avoid false alarms.

3.3.2 Floor

To prevent any vibration caused by people walking through the detector, the installation floor must be flat and rigid.

3.3.3 Electromagnetic Radiation and Interference

To avoid electromagnetic interference that may affect the detector's sensitivity, it should be installed at least 1 m away from sources of electromagnetic radiation. The specific parameters for the distance vary depending on the installation environment.

The sources of electromagnetic radiation and electromagnetic interference can be Electrical Control Box, Radiofrequency equipment, Interphone, High Power Motor, Power Transformer, Ac Power Lines, Thyristor Control Circuit (High Power Switching Power Supply, Inverter Welder), Engine, Motor, etc.

3.3.4 Parallel Installation

No. of detectors installed parallelly	Distance between the detectors
2	> 50 cm
3	> 80 cm
4 or more	Not recommended

Note: The detectors must operate at a different frequency to avoid interference. The distance varies according to the actual working environment.

3.4 Installation Steps

Make sure that the device is installed in accordance with the provided installation instructions. If you need to access the internal components of the device, please obtain permission from the authorized agent. Any consequences resulting from unauthorized actions will be your responsibility.

After reading the precautions and checking the packing list, please follow the steps below for installation.

Step 1: Open the package, and then place the left and right door panels and the main box on the ground in the direction shown in figure 3-1 below. Pay attention to distinguish between the left, right and direction of the door panel (the main screen faces downward).

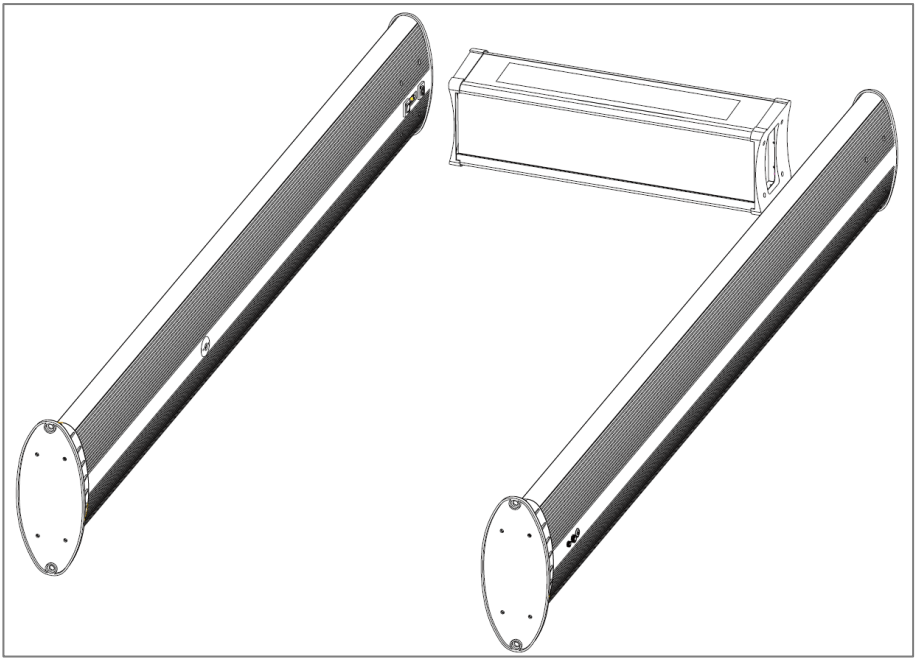


Figure 3-1

Step 2: Connect the main box with the left and right door panels using bolts as shown in figure 3-2 below.

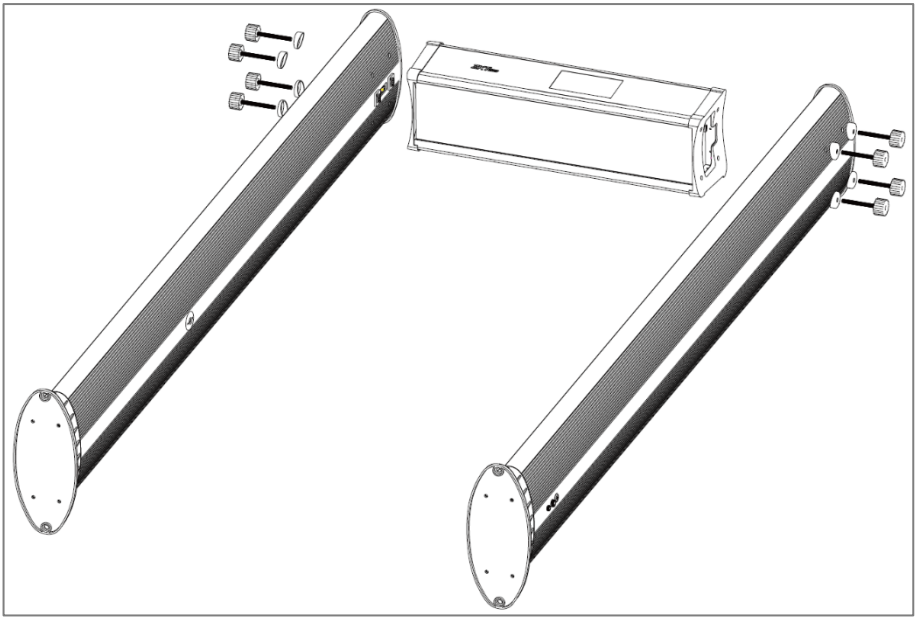


Figure 3-2

Step 3: Open the main box, as shown in figure3-3 below.

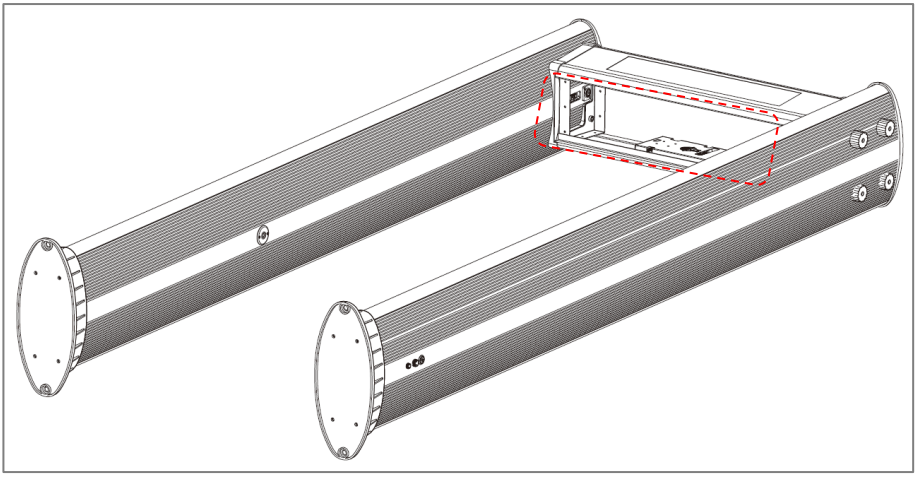


Figure 3-3

Step 4: Connect the two signal line to the left and right door panels respectively, as shown in figure 3-4 below.

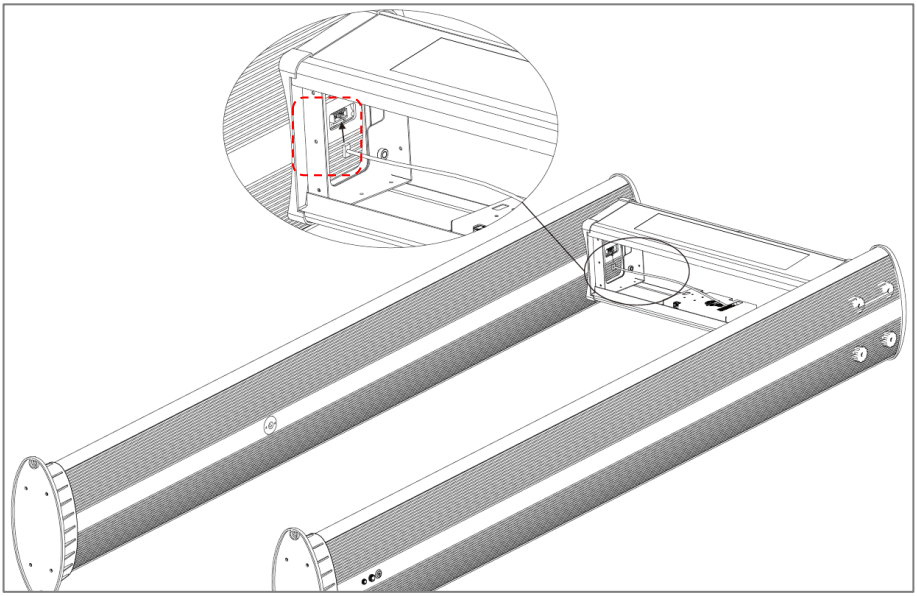


Figure 3-4

Step 5: Connect the network line with the door panel, as shown in figure 3-5 below.

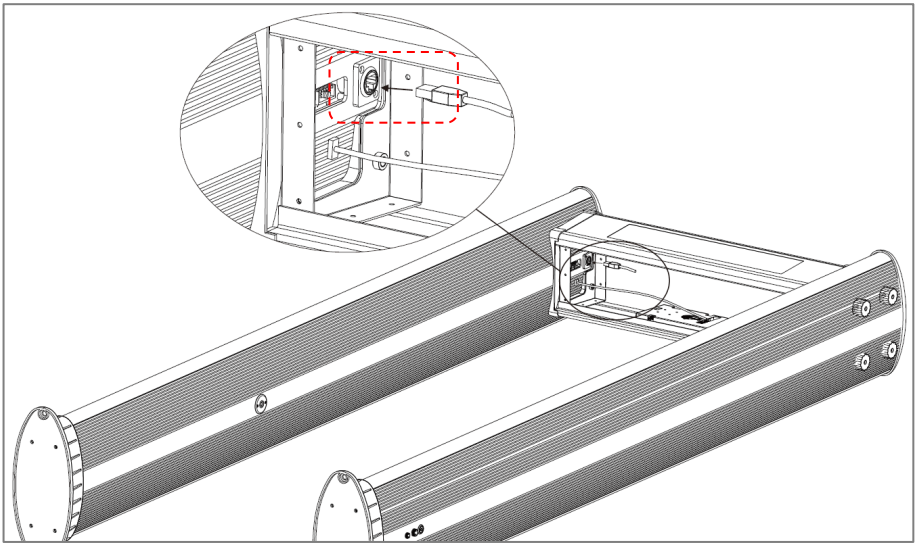


Figure 3-5

Step 6: Close the main box and connect the power line with the door panel, as shown in figure 3-6 below. (Both door panels have power line interface, please choose as needed)

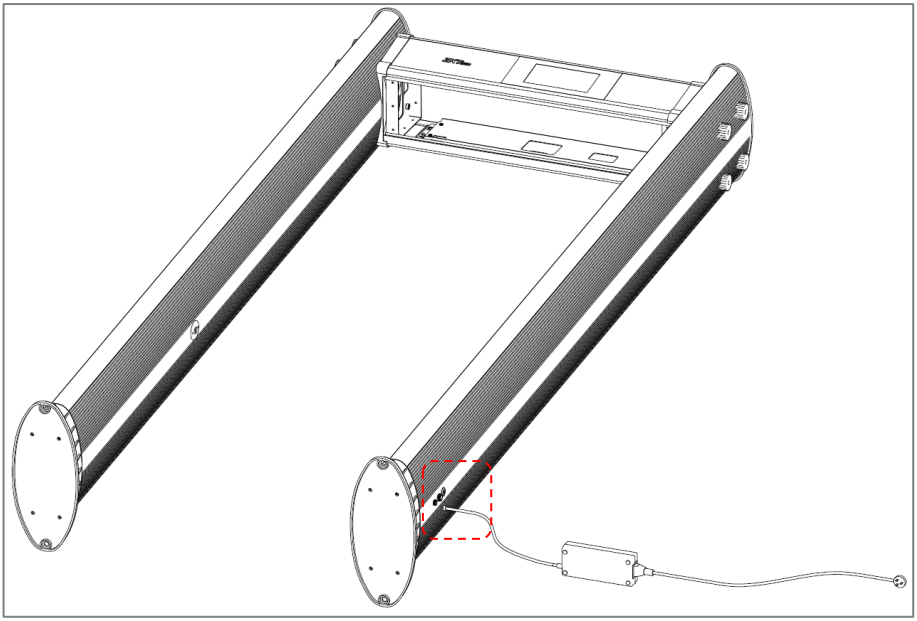


Figure 3-6

4 Performance and Technical Features

Accurate Positioning: There is an option to select 1, 6, 11, 18 or 33 overlapping detection zones with bilateral transmit and receive technology. The detection zones can accurately detect the objects with an intuitive display of the target location.

Micro Processor Technology: The Microprocessor Control Unit generates the electromagnetic waves for scanning. The scanning rate can be precisely controlled.

Adjustable Sensitivity: ZK-MD5000 detection zones have 1 to 500 sensitivity levels. You can preset the metal size for excluding items like coins, keys, jewelry, buckle, etc.

19-inch Advertising Screen: Can play video, pictures, text, etc. (optional)

Visual Sensitivity Adjustment: When you adjust the sensitivity level of a detection zone, the LED light mapping of the detection zone turns on.

Password Protection: Only the correct password can change the sensitivity and other parameters. The password contains six digits.

Count Statistics: The detector displays the number of pedestrians passed and alarm count accurately.

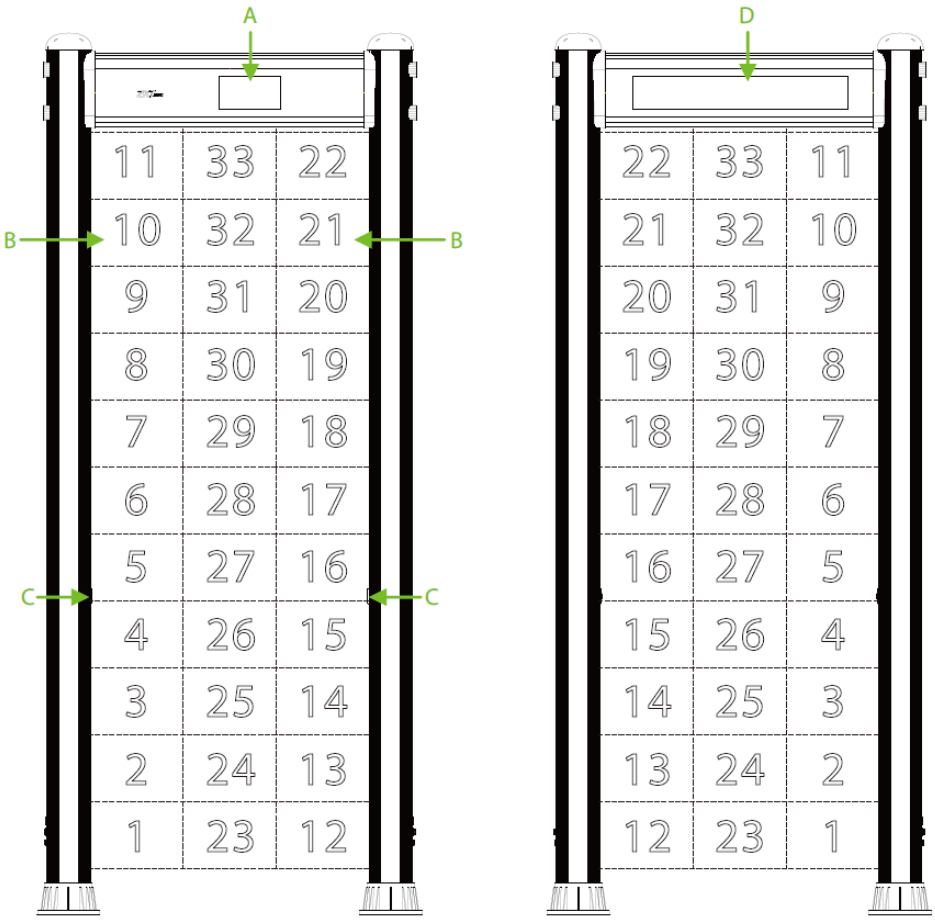
Harmless: The detector is harmless to heart pacemakers, pregnant women, magnetic floppy disks, recording tapes, etc.

Waterproof Foot Cover: The waterproof foot cover helps to fix the device firmly and also protects the device from water.

Easy to Install: The detector has an integrated design and it can be effortlessly installed or disassembled in 15 minutes.

Linkage: A signal cable connector is delivered with the device. You can connect it to implement linkage between the turnstile and the walk through metal detector.

5 Detection Zones



A. 7-inch Touch Screen

B. Detection Zone Display

The door panels of the walkthrough metal detector have four sets of precise positioning LEDs, evenly distributed to display the status of 33 detection zones as shown in the picture above. The zone indicators can be turned on or off as needed. When the detector detects metal objects that exceed the preset size value, the corresponding alarm indicator turns on and an alarm is generated.

(No audible alarm is generated if the device is in mute state.)

C. Infrared Sensor

After being connected to a power supply, the metal detector starts to work. When no person or object passing through the device, the infrared sensors stop alarming to avoid false alarm and accurately count passengers and alarm times.

D. 19-inch Advertising Screen

Can play videos, pictures, texts and define the playing area.

5.1 Adjustment of Detection Zone's Sensitivity

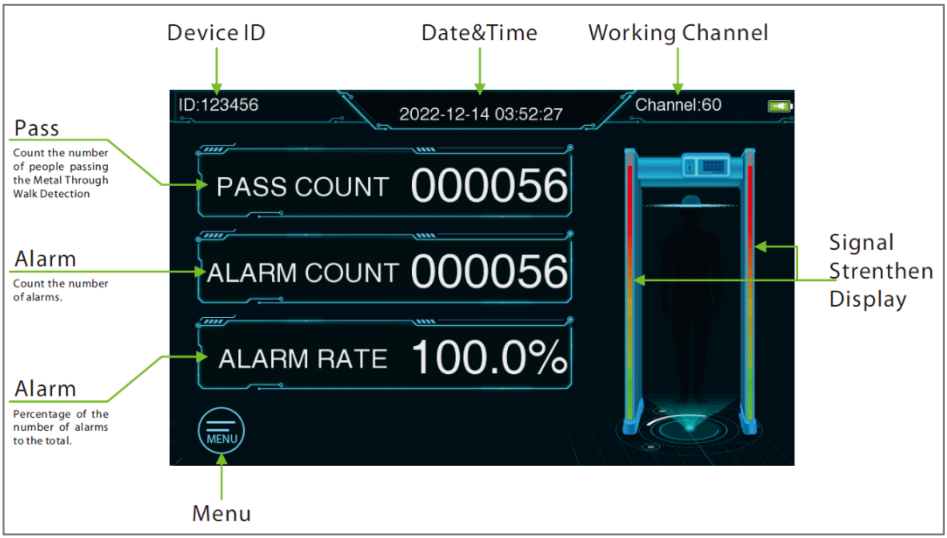
1. The device must be in a firm and stable position to achieve the best detection result (refer to Installation Site). To check whether the device is in a stable state, perform the following steps:
   a) Power on the detector and check whether it is shaking or not, after one minute.
   b) The device should not alarm when the testing person passess through it without carrying any metal objects.
2. You can exclude the small portable metal objects from being scanned such as rings, key, belt buckle, shoes, and so on, by following the steps given below:
   a) Choose a small metal as a sample. Increase the sensitivity, so that the device alarms when the testing person carries the sample and pass through the detector.
   b) You need to decrease the sensitivity a little and pass through the detector again carrying the sample. If it still alarms, you need to reduce the sensitivity once again, until the device does not alarm when the sample is passed through.

Note: To decrease sensitivity in a particular zone, adjust only the sensitivity of that zone. After the adjustment, the detector will not alarm for metal smaller than the sample size but will accurately detect metal objects larger than the sample size.

6 Operational Procedure

6.1 Standby Interface

Connect the power supply to the detector. After 2 seconds of initialization, the following standby interface is displayed:



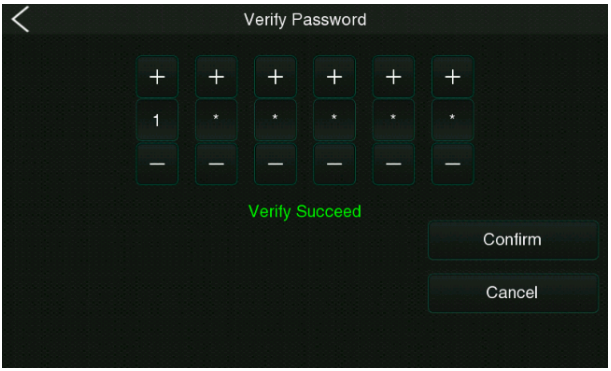
The standby interface displays the following content: Device ID Number, Date and Time, Working Channel, Entry Count, Pass Count, Alarm Count, Alarm Rate and detection signal strength, etc.

Note: Ads need to be uploaded and set up through the "Metal Detector" software.

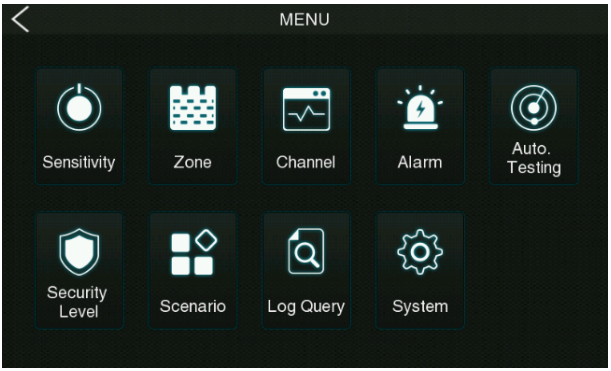
6.2 Main Menu

In the standby mode, tap the **MENU** icon at the bottom left corner of the screen to enter the verification password input interface. For the first operation of the device, please enter the factory password of the device: **100000**, and tap **[Confirm]** after completion. When the prompt "Verify Succeed" displays, then the verification is completed, as shown in the following figure.

Note: Tap the + − icon to set the value, and tap the back icon to return to the upper menu.



After entering the password successfully, you will enter the main menu interface as shown below:

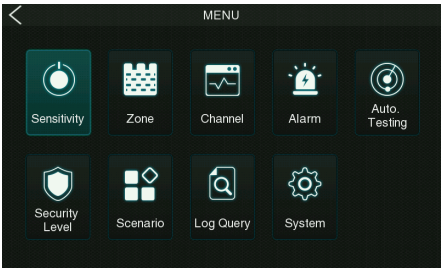


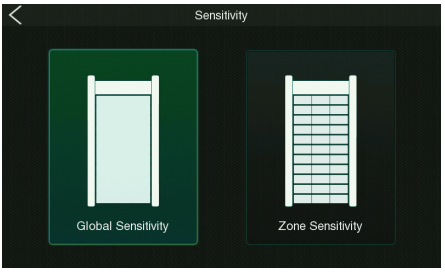
Function Description

Menu	Descriptions
Sensitivity	Used to set the detection sensitivity threshold, including Global Sensitivity and Zone Sensitivity.
Zone	Used to set up independent zones to facilitate precise positioning of detected objects.
Channel	Used to set the frequency band, including Manual Setting and Auto Setting.
Alarm	Used for alarm settings, including parameters such as Volume, Delay, Ring Tone, Random Alarm, and Alarm Mode.
Auto. Testing	Automatically detect whether the functions of each module are available, including Zone, LED and Speaker test.
Security Level	Used to set the security level.
Scenario	It is used to set the application scenarios of the device.
Log Query	Record query function, convenient for users to query the logs saved in the device.
System	Set the relevant parameters of the system to maximize the function and display of the device to meet user needs, including Password, Screen Sleep, Date / Time, Language, Saved Records, Reset, Detect Mode, Relay Mode, and Custom ID etc.

6.3 Sensitivity

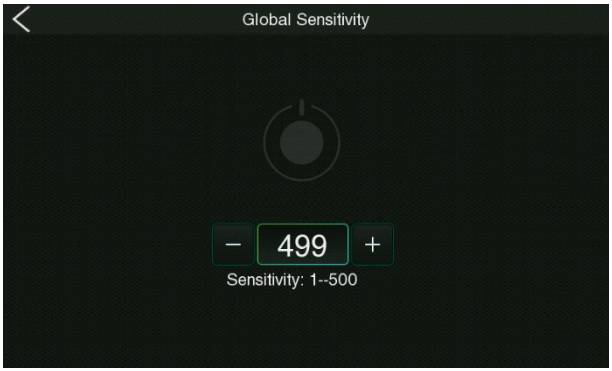
Tap **Sensitivity** on the **Main Menu** interface to set the sensitivity level of each detection zone, as shown in the following:





- **Global Sensitivity**

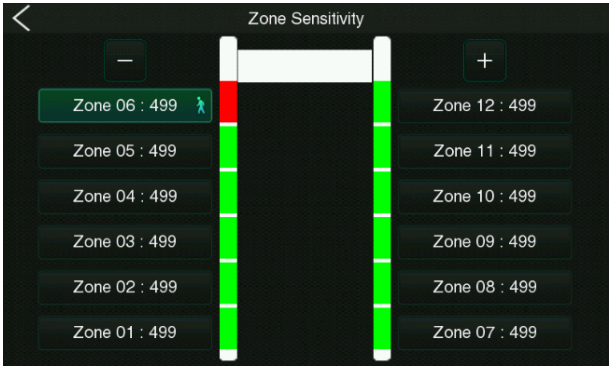
Tap **Global Sensitivity** on the **Sensitivity** interface to get into its setting interface, as shown in the following:



The larger the global sensitivity threshold the higher the sensitivity, and the effective value is 1 to 500, the default value is 460.

- **Zone Sensitivity**

Tap **Zone Sensitivity** on the **Sensitivity** interface to get into its setting interface, as shown in the following:



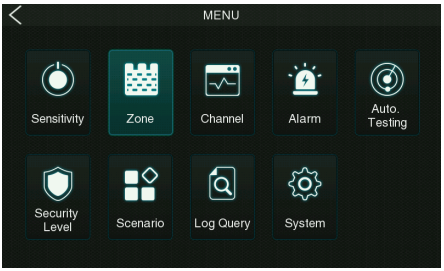
After selecting the partitions, set them separately. Tap a partition, the selected partition will appear with a icon and tap the icon to set the value, and then tap this partition again to deselect. The greater the zone sensitivity threshold, the higher the sensitivity, the effective value is 1 to 500, and the default value is 460.

Note: You need to set up independent defense zones in the **Defense Zone Settings** interface first.

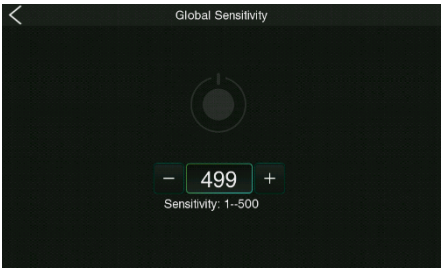
6.4 Zone

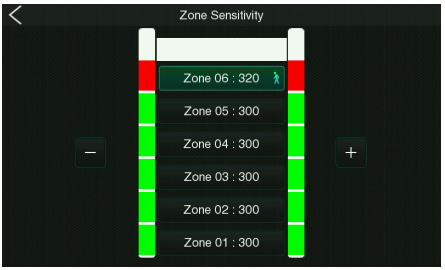
In the zone mode, you can select the number of independent zone according to the operational needs of the device.

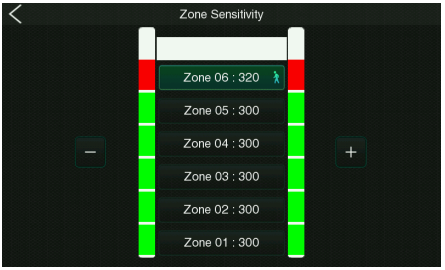
Tap **Zone** on the **Main Menu** interface to select the particular zone settings, as shown in the following:



Remark: Different independent zones, the **Zone Sensitivity** interface is as follows:



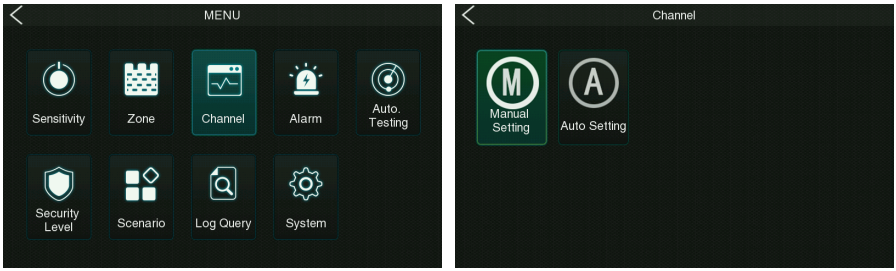




Note: Tap a partition, the selected partition will appear with a icon and tap the + − icon to set the value, and then tap this partition again to deselect.

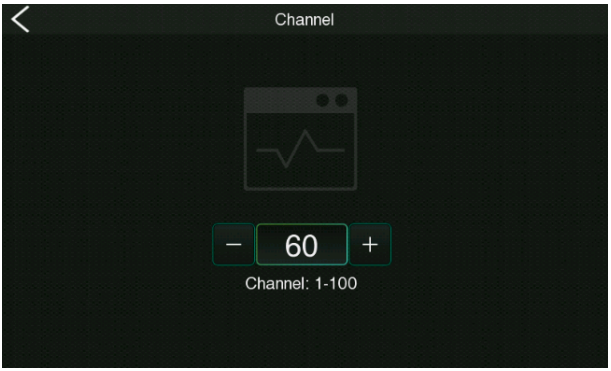
6.5 Channel

Tap **Channel** on the **Main Menu** interface to enter the band setting interface, as shown in the following:



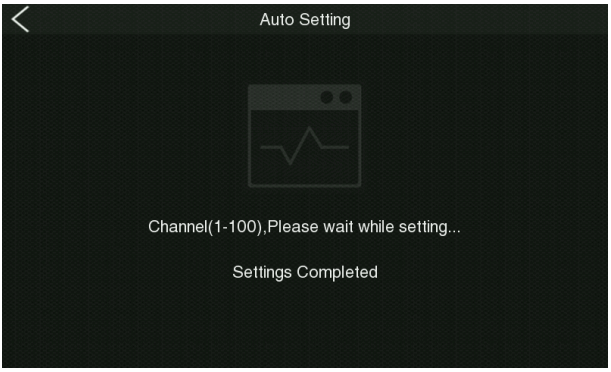
- **Manual Setting**

Tap **Manual Setting** on the **Channel** interface to get into its setting interface. The channel range is from 1 to 100, the default value is 60.



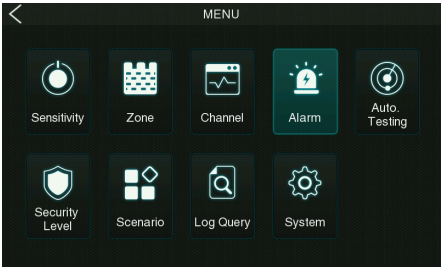
- **Auto Setting**

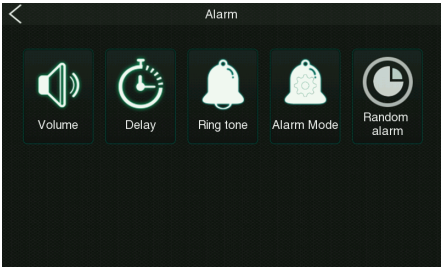
Tap **Auto Setting** on the **Channel** interface to get into its setting interface, as shown in the following:



6.6 Alarm

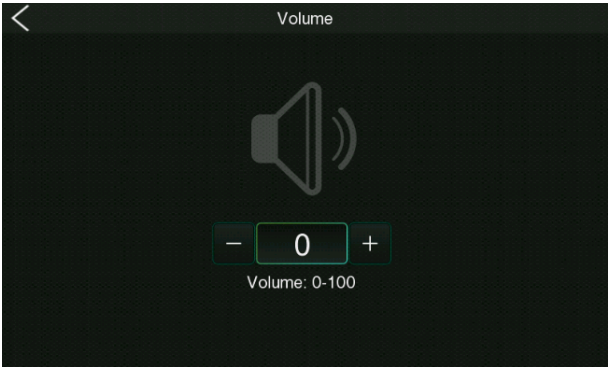
Tap **Alarm** on the **Main Menu** interface to enter the alarm settings interface, as shown in the following:





- **Volume**

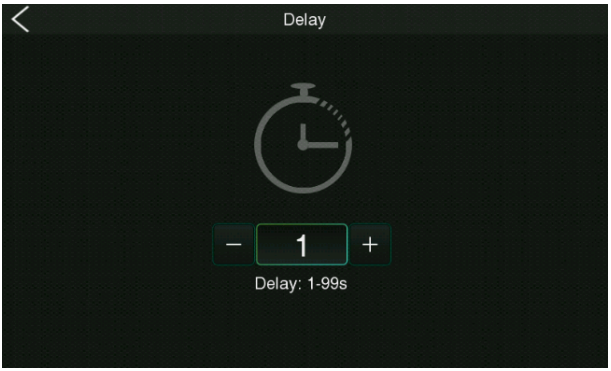
Tap **Volume** on the **Alarm** interface to enter the alarm volume settings interface, as shown in the following:



Used to set the alarm volume, the larger the value the higher the volume, valid values are 0 to 100, the default value is 80.

- **Delay**

Tap **Delay** on the **Alarm** interface to enter the alarm delay duration setting, as shown in the following:



Used to set the length of time for the alarm to ring, the effective value is 1 to 99 seconds, the default value is 1 second.

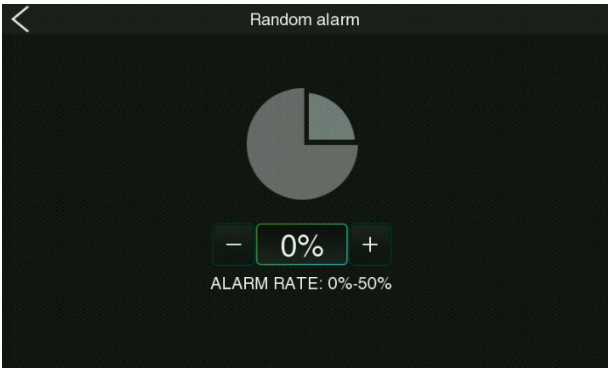
- **Ring Tone**

Tap **Ring Tone** on the **Alarm** interface to enter the alarm alarm ring setting interface, as shown in the following:

It is used to set the ringtone when the alarm rings, a total of 16 ringtones can be selected.

- **Random Alarm**

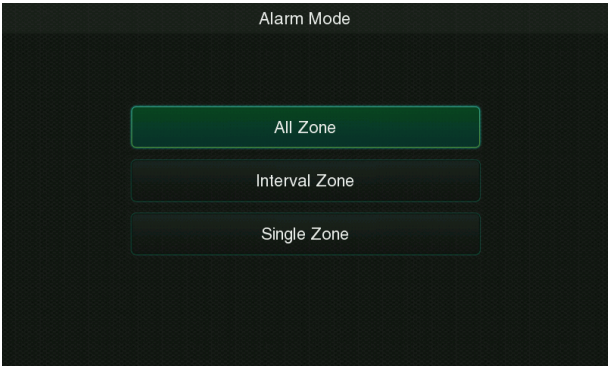
Tap **Random alarm** on the **Alarm** interface to enter the random alarm setting interface, as shown in the following:



Under normal circumstances, the alarm is generated when the amount of metal signal reaches the set sensitivity threshold, while it can pass normally when it is less than the threshold. When a random alarm value is set, there will be a n% probability that a normal pass without alarm will be turned into an alarm, so that it can be checked and confirmed again manually.

- **Alarm Mode**

Tap **Alarm Mode** on the **Alarm** interface to enter the alarm mode setting interface, as shown in the following:

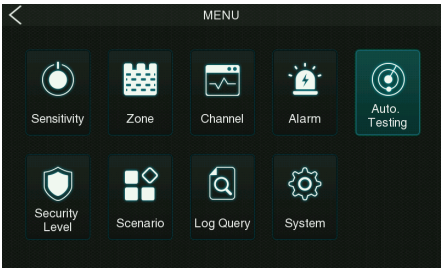


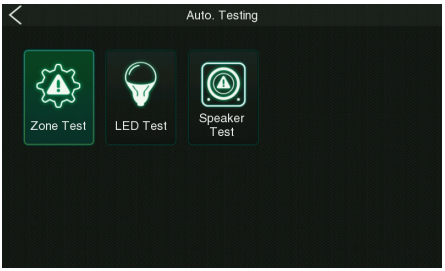
Function Description

Menu	Descriptions
All Zone	In the All Zone alarm mode, when the detected metal content reaches or exceeds the set metal content, the area alarm light of the detected metal will be serial lit, and an alarm will sound at the same time. Suitable for normal mode.
Interval Zone	In the Interval Zone alarm mode, the zone warning lights that detect strong metal content will light up at intervals, that is, two consecutive zones will not light up at the same time. Facilitates identification and focused detection of stronger zones by security personnel.
Single Zone	In the Single Zone alarm mode, only the zone with the strongest metal content is detected and the alarm lamp lights up. Facilitate the security personnel to precisely focus on the area for detection.

6.7 Auto Testing

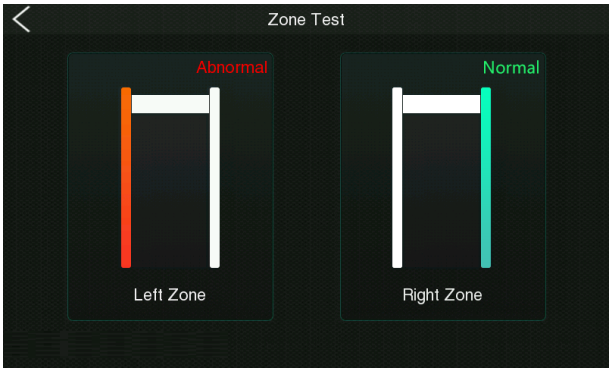
Tap **Auto Testing** on the **Main Menu** interface to enter this option where the system self-checks its functions. As shown in the following:





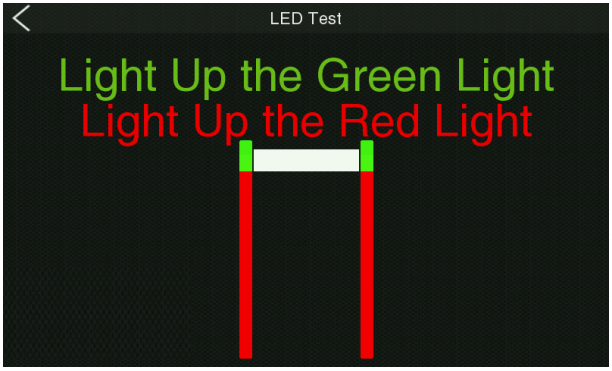
- **Zone Test**

Tap **Zone Test** on the **Auto Testing** interface to enter the partition test. The test example is shown below.



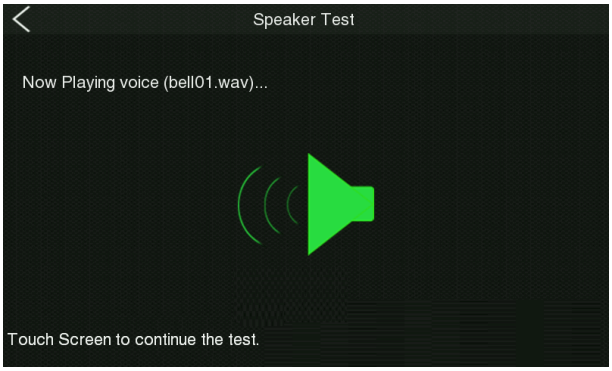
- **LED Test**

Tap **LED Test** on the **Auto Testing** interface to enter the lighting test, the device alternately displays red and green lights same as the interface. The test example is shown below.



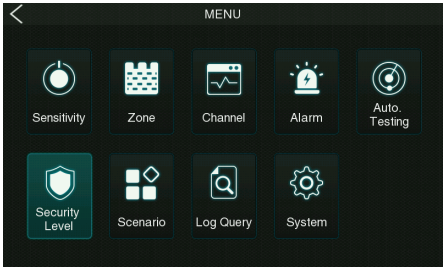
- **Speaker Test**

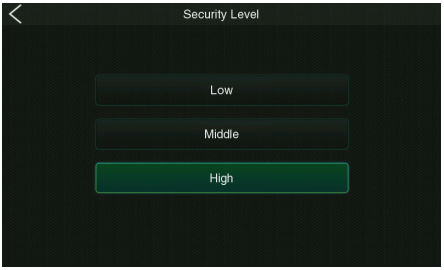
Tap **Speaker Test** on the **Auto Testing** interface to enter the voice test. The test example is shown below.



6.8 Security Level

Tap **Security Level** on the **Main Menu** interface to enter the security level setting interface, as shown in the following:

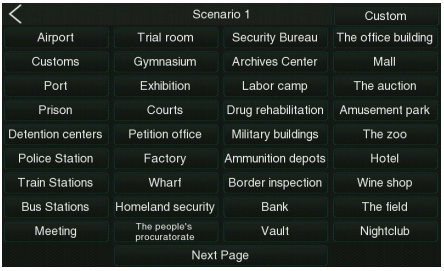




Three security levels can be set as Low, Middle and High. The higher the security level, the higher the corresponding sensitivity.

6.9 Scenario

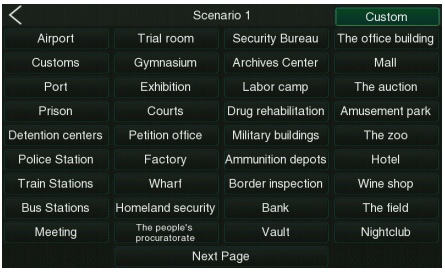
Tap **Scenario** on the **Main Menu** interface to enter the application scenario setting interface, as shown in the following:

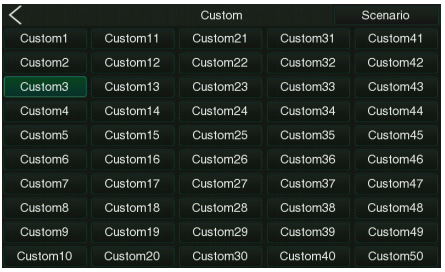


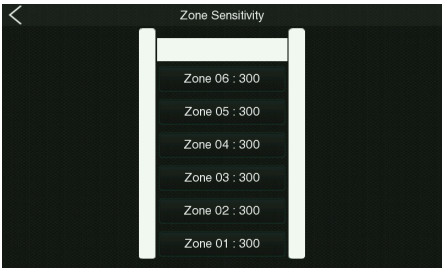
The user can select different scenarios in Scenario 1 and Scenario 2, or can choose a Custom scenario.

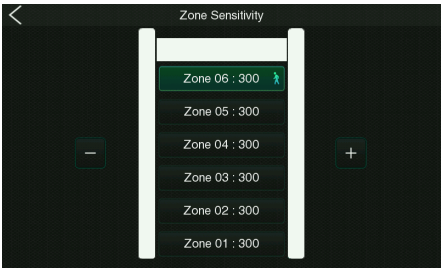
- **Custom Scenario**

In the Scenario setting interface, the user can enter the custom setting interface by tap the **[Custom]** in the upper right corner of the screen or pressing the power button. There are 50 custom scenes in total, as shown in the following:





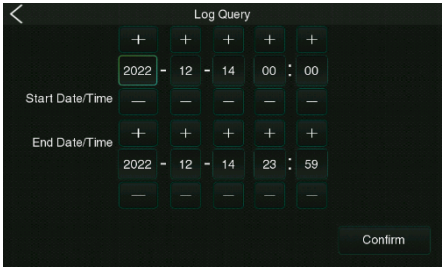


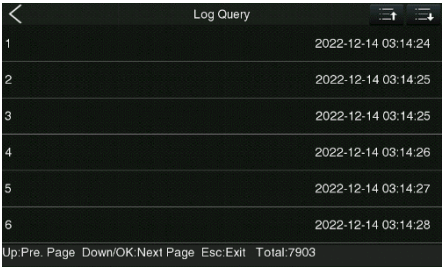


Note: Tap a partition, the selected partition will appear with a  icon and tap the  icon to set the value, and then tap this partition again to deselect.

6.10 Log Query

Tap **Log Query** on the **Main Menu** interface to enter the log query interface, as shown in the following:

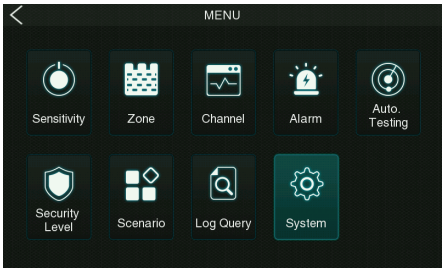


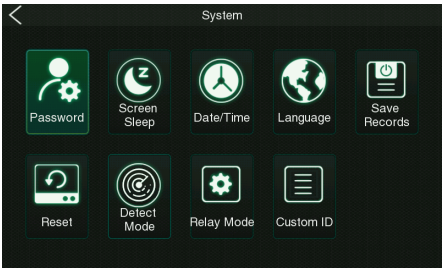


Each page of the query result displays 6 historical alarm records, and the total number of alarm records can be viewed at the lower right corner of the page.

6.11 System

Tap **System** on the **Main Menu** interface to enter the system settings interface, as shown in the following:

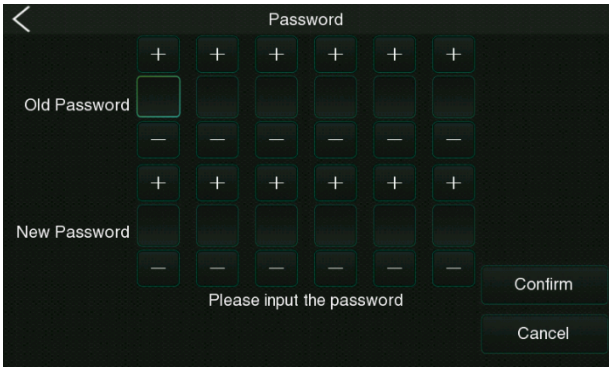




It is used to set the relevant parameters of the system so that the device can maximize the user requirements in terms of function, display, etc.

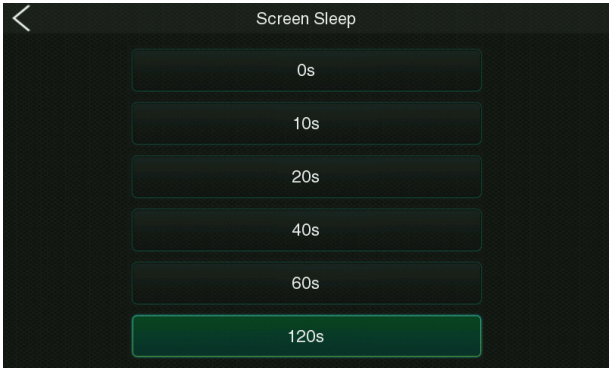
- **Password**

Tap **Password** on the **System** interface to enter the password setting interface, as shown in the following:



- **Screen Sleep**

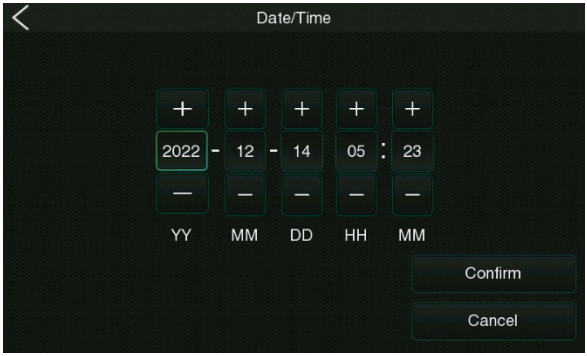
Tap **Screen Sleep** on the **System** interface to enter the screen hibernation setting interface, as shown in the following:



You can set the screen hibernation duration here, there are 0s, 10s, 20s, 40s, 60s and 120s optional.
Note: The 0s means the screen will not hibernation.

- **Date/Time**

Tap **Date/Time** on the **System** interface, and press **OK** to enter the system Date & Time setting interface, as shown in the following:



- **Language**

Tap **Language** on the **System** interface to enter the language setting interface, as shown in the following:

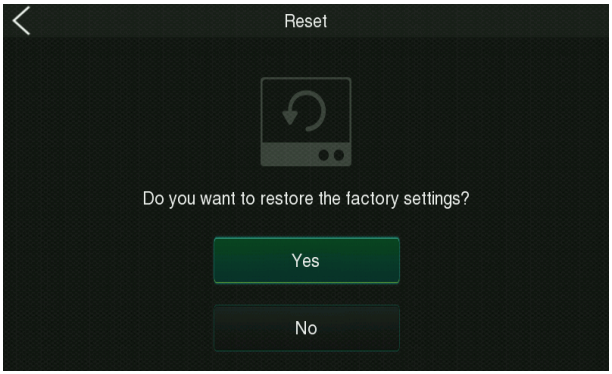
- **Save Records**

Tap **Save Records** on the **System** interface to enter the setting interface, as shown in the following:

It is used to set whether to save the number of alarm records after the device is turned off, tap **[Yes]** to save and tap **[No]** to clear.

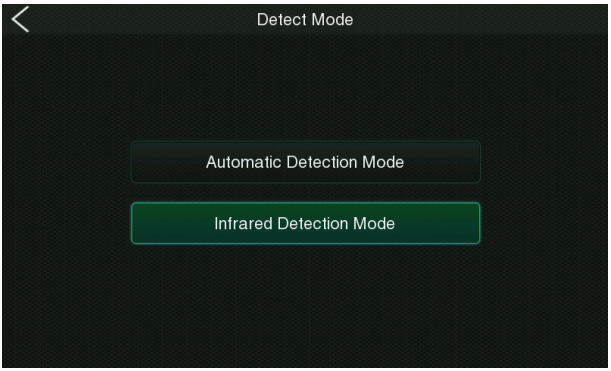
- **Reset**

Tap **Reset** on the **System** interface to enter the restore factory settings interface, as shown in the following:



- **Detect Mode**

Tap **Detect Mode** on the **System** interface to enter the detect mode setting interface, as shown in the following:

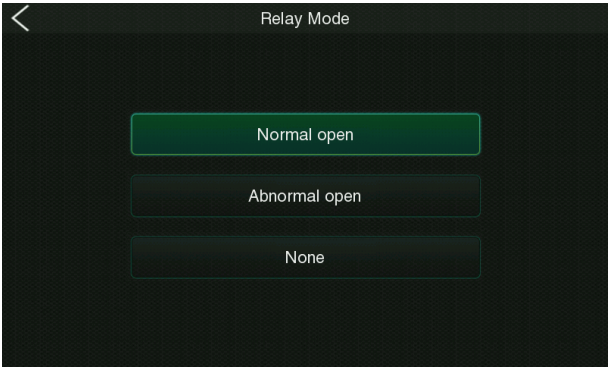


Function Description

Menu	Descriptions
Automatic Detection Mode	In this mode, an alarm is generated when the amount of metal signal reaches the set sensitivity threshold, and no counting statistics are performed.
Infrared Detection Mode	In this mode, when the infrared detector is triggered and the amount of metal signal reaches the set sensitivity threshold, an alarm will be generated, and counting statistics will be performed.

- **Relay Mode**

Tap **Relay Mode** on the **System** interface to enter the relay control setting interface, as shown in the following:

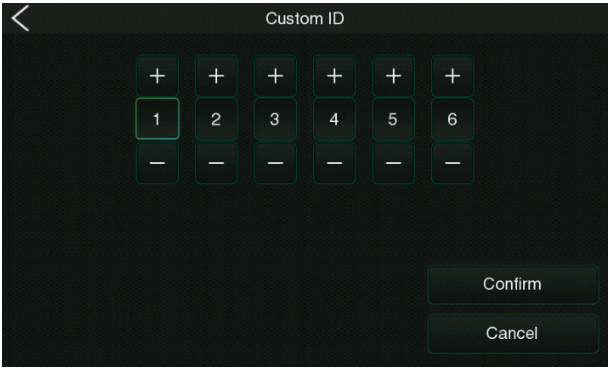


Function Description

Menu	Descriptions
Normal open	In this mode, when the metal content carried is less than the alarm threshold, the relay will be triggered to output a switch signal when the machine does not alarm.
Abnormal open	In this mode, when the metal content exceeds the alarm threshold, the machine will trigger the relay to output a switch signal when the machine alarms.
None	Means that the relay is always in the off state and does not output a switch signal.

- **Custom ID**

Tap **Custom ID** on the **System** interface to enter the custom ID setting interface, as shown in the following:



The ID is the device ID (the default value is 123456).

6.12 Default Parameters

Parameter	Default Value
Default Password	100000
Channel	60
Alarm Duration	1s
Alarm Volume	80
Alarm Delay	1.0 s
Random Alarm	0%
Alarm Mode	All Zone
Zone Sensitivity	460
Overall Sensitivity	460
Alarm Ringtone	Ring tone 1
Security Level	High
Detection Mode	Infrared Detection Mode
Relay Mode	None
Save Records	No
Device ID	123456
Language	English

7 Troubleshooting

What to do if an error is prompted during the auto testing?

a) When the message "EFT ZONE ERROR RIGHT ZONE ERROR" is prompted during the auto testing, please pay attention to whether the left and right signal cable plugs are inserted tightly.

b) When it prompts "The infrared receiving error", please check whether the left and right signal wires of the door panel are connected properly, whether the infrared sensors are connected properly, and whether the two sets of infrared sensors are blocked.

What to do if the sensor could not count?

a) Check whether the probe cables are connected firmly with the door panels.

b) Check whether there is any infrared interference beside the device, such as infrared surveillance system, infrared remote control, outdoor sunlight, etc.

c) If both, condition **a** and condition **b** are OK, then the issue is with the infrared sensor and need to be replaced.

What to do if the detector gives a false alarm?

If the device gives false alarms frequently after installation, perform the following steps:

a) Firstly, check the installation environment. Make sure there are no movable or stationary large metal objects around 1.5 meters from the detector. If there is any metal object, try to place the device away from the large metal objects.

b) Make sure that the installation location is firm and stable and free from physical movements. If not, change the installation location.

c) If the false alarm is not caused by environmental interference, then reduce the sensitivity level of all zones.

d) Change the frequency.

8 Packing List

The package consists of the following items:

No	Component	Quantity
1	L Side Panel	1 set
2	R Side Panel	1 set
3	Main Box (Individually Packaged)	1 pc
4	Accessory Box	1 pc

Accessory Box List

No	Component	Quantity
1	Power Adapter	1 set
2	Bolt	8 pcs
3	Torx Screwdriver	1 pc
4	Expansion Screws	8 pcs
5	Mounting Caps	8 pcs
6	User Manual	1 pc

9 Warranty Card

1. Please keep this card in a safe place and present it produce the same during maintenance.
2. This card will be invalid without the signature or stamp of the designated dealer.
3. The card will be deemed invalid if the guarantee column and receipt acknowledgment are not filled in correctly. Please confirm the accuracy of the information in the guarantee column and receipt acknowledgment when purchasing and then submit it to the dealer.
4. Replacement card will not be issued if this card is lost.

Model Number	
ID	
Date of Acquisition	
User	
Post Code	
Address	
User's Phone Number	
Fax	

Date of Maintenance	Record of Maintenance	Technician

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