

# **Walk Through Metal Detector**

## **User Manual**



SE-SE3307

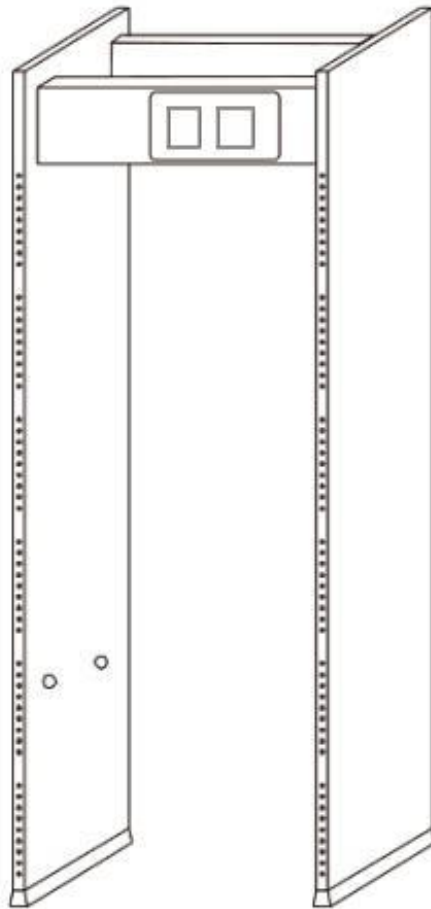
## **【NOTES】**

**PLEASE READ THE FOLLOWING INSTRUCTION CAREFULLY BEFORE OPERATION:**



1. This unit is intended available for indoor use, if you need to use it outdoors, please use canopy to protect it against weather.
2. Choose a smooth and stable installation surface, to avoid false alarms caused by unintended movement.
3. Make sure the position of the left and right detector heads in the panels are correct before installation.
4. The unit will have a 1 minute self-calibration after power-on to ensure best performance.
5. People walking through the arch must abide by the predefined standby time and alarm time (>1s). Walk through the arch one by one. Do not crowd around the detector during operations, as it may interfere with proper detection.
6. Do not bump the detector during security checking.
7. Any disassembly of the HV control unit should be done by a professional technician.
8. Detector will be repaired free if under the warranty. NOTE: most parts are 'user' replaceable.

## 【PRODUCT SPECIFICATION】



Walk through metal detector or WTMD for short, is mainly used to check for metal objects hidden on or in the human body. When the people walk through the WTMD, if the metal size is more than the predefined metal parameter of weight, quantity or shape, it will alarm and display the alarm zone in the area that the metal is detected. This enables the security staff to quickly locate the prohibited item(s).

Our metal detector is one of the highest quality and highest sensitivity detectors on the market to day. The unit is also very stable and is able to reject most forms of interference.

## **【INSTALLATION ENVIRONMENT】**

### **1. Stationary Metallic Items**

When installing the WTMD, try to find an area that is 2 meters away from large stationary and movable metal to reduce the possibility of false alarms. Items of concern would large metal beams or supports, metal stud walls, etc.

### **2. Movable Metallic Items**

Large, unstable or metal items that can be moved, should be about 5 meters away to avoid false alarms. It is recommended to install the detector on the ground floor. Items that you should pay to are: rolling gates, iron security doors, elevators and cars, etc.

### **3. Floor Vibration**

The floor should be flat and and firm. This ensures that movement around the detector does not vibrate or shake the unit and cause false alarms.

### **4. Electromagnetic Radiation And Electromagnetic Interference**

While the unit does a great job of reducing and eliminating most causes of electromagnetic interference, it is recommended that the detector be placed 1-2 meters from any transmission sources, such as radios, electrical panels, intercom systems, welders, switching power supplies, AC power lines, etc. Some high power transmissions may need to be further than 2 meters from the detector to ensure stable operation.

### **5. Side-By-Side Using(more than 2 pieces WTMD)**

When installing more than 2 WTMD units side by side, there will be a certain degree of influence between each WTMD. It may be necessary to change frequency and channels to minimize interference. The distance between detectors should be no less than 50cm.

**6. If installing the unit outdoors, it is recommended that the WTMD be installed under a weather cover that not only protects it from weather, but also minimized exposure to wind.**

## **【PERFORMANCE AND FEATURES】**

**Accurate Target Location:** 33 overlapping network detection zones with bilateral transmit and receive, accurately display of the target location.

**Micro Processor Technology:** the scanning electromagnetic wave is generated by a microcomputer control circuit. The scan rate can be precisely controlled. All parameters can be set through the control panel as needed to ensure maximum sensitivity, flexibility, reliability and stability.

**Sensitivity Adjustable:** each detection zone has 1000 sensitivity level (0~1000). Preset programs can exclude the coins, keys, jewelry, belt buckle etc.

**Digital Pulse Technology:** Digital Signal Processing(DSP) and filtering system, has excellent anti-interference ability.

**Password Protection:** All system control settings are protected by a password. Passwords with five digits, can be set by the user.

**Count Statistics:** pass count and alarm count.

**Harmless to Human Body:** harmless to heart pacemaker, pregnant women, magnetic floppy disk, recording tapes etc.

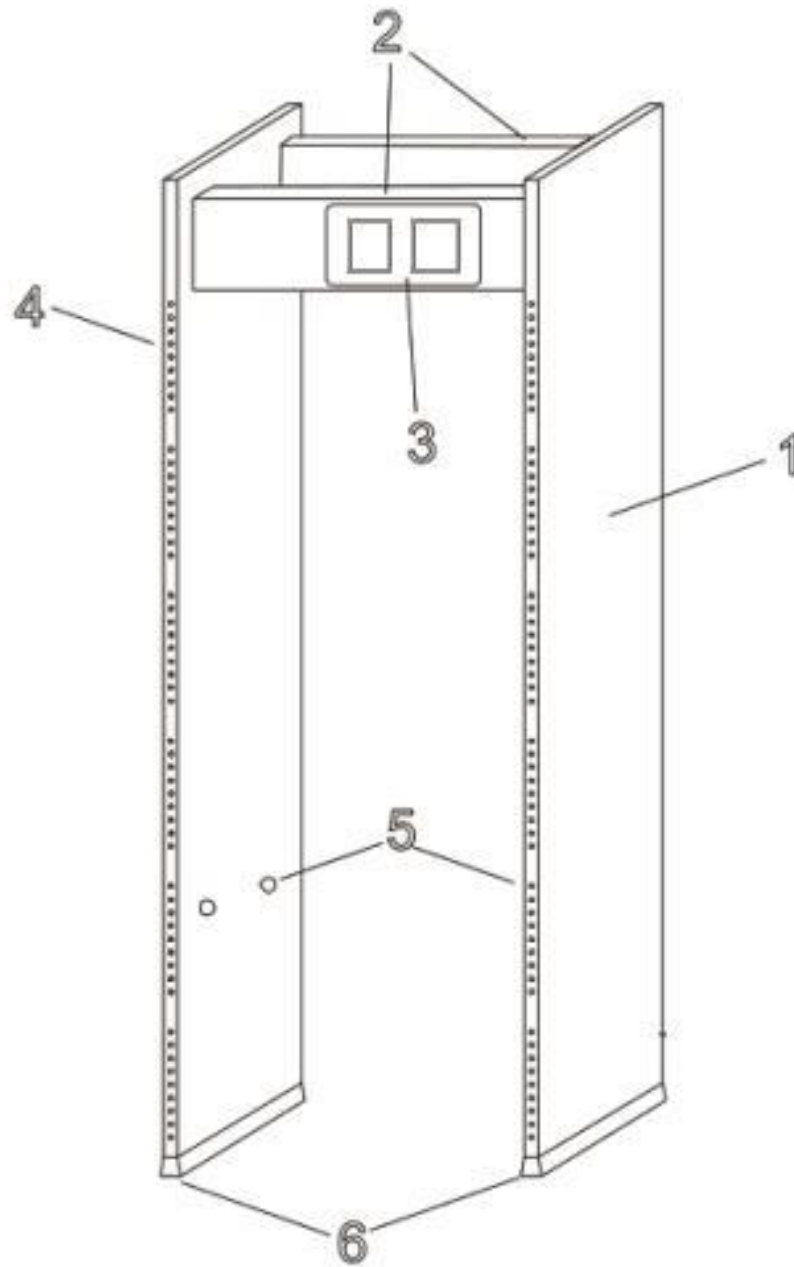
**Anti-deformation:** The built-in high-strength alloy skeleton of the device effectively prevents performance degradation by ensuring the unit does not deform in extreme environments.

**Waterproof Foot Cover:** The foot cover is weatherproof

**Waterproof:** Weather proofing is done using PVC synthetic material.

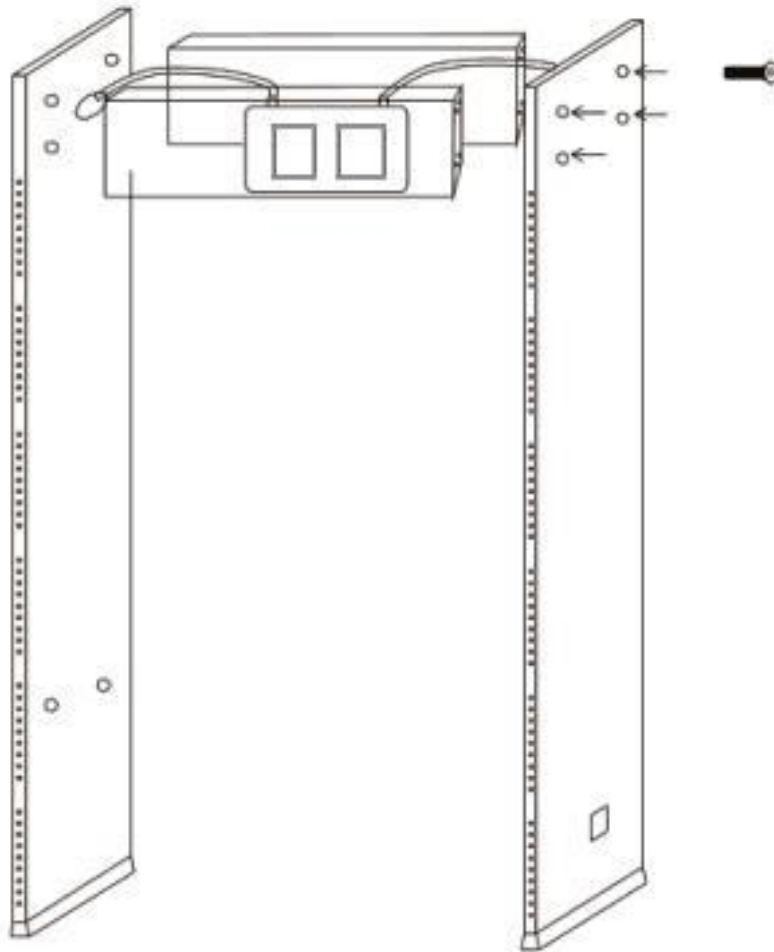
**Easy to Install:** The system is designed to be simple to set up and use. Even novices can complete setup in approximately 20 minutes.

## 【PARTS】



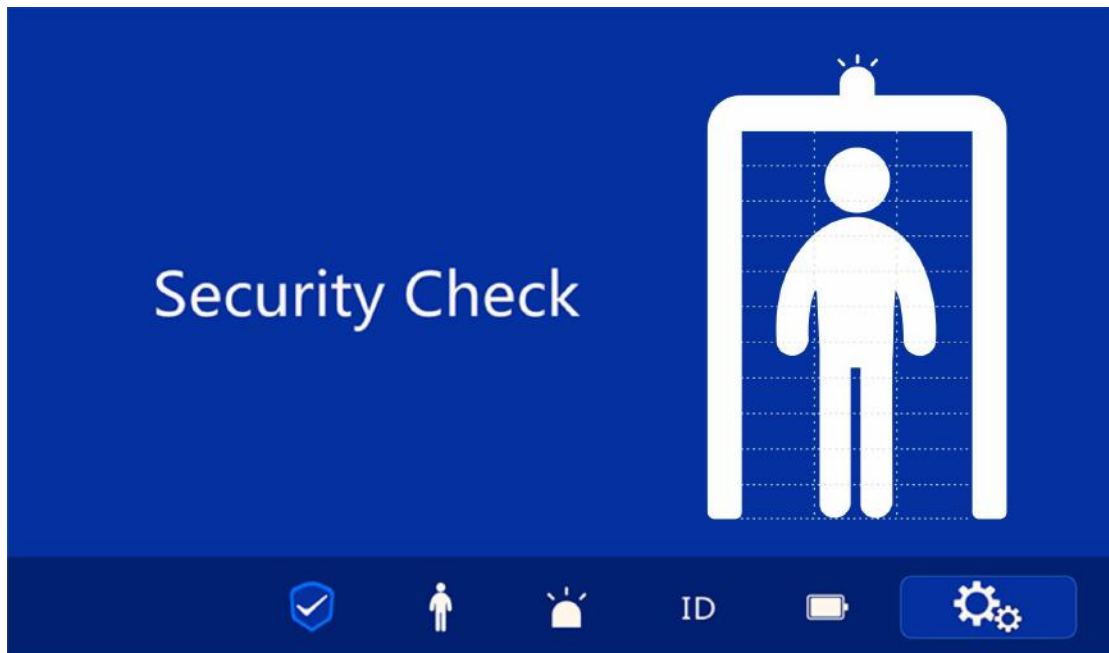
- |                     |                          |                    |                   |
|---------------------|--------------------------|--------------------|-------------------|
| 1. Door Panel       | 2. Crossbar              | 3. Head Controller | 4. Alarm zone LED |
| 5. Infrared Sensors | 6. Waterproof Foot Cover |                    |                   |

## 【INSTALLATION】



1. Remove the Head Controller and the packaging around the door panels.
2. Place the main chassis display panel up, left and right side of the door as shown in the figure. Then connect the left and right panels to the main box and support structure with bolts and nuts locked tightly.
3. Make sure the panels connection wires on the left and right are tightly inserted into the corresponding socket on the motherboard. Make sure all connections are snug.
4. Raise the WTMD to the vertical position and move to the desired working position.
5. Connect the AC power line to the Panel.

## 【CONTROL PANEL】



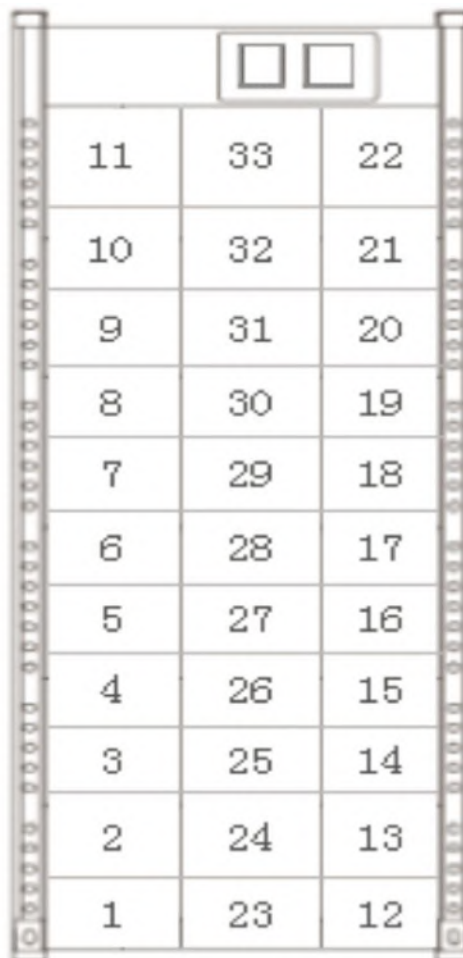
1. On the left side of the screen you'll see the prompt "Security Check"
2. The right side of the screen for showing the related alarming zone.
3. Interference signal strength and weakness display: If there is any interference present, the signal indicator bar will be show the level of interference. The bar will move from green to red, indicating the interference signal strength.
4. The logo at the bottom of the screen displays “Security Level”, “Number of Passes”, “Number of Alarms”, “Device ID”, “UPS Power” and “Device Settings”. The security level indicates the overall sensitivity of the device. The overall sensitivity is "0-500".

## 【DETECTION ZONES】

A. Standby and equipment work instructions: When in standby mode, you'll see a green traffic light that is displayed on the rear of the device. When the device is working, the device displays a green traffic light. When the device alarms, a red traffic light (indicating STOP/ALARM) is displayed.

### B. LED Bar Alarm

There are six sets of unique pinpointing LEDs, which represent 33 detection zones (from bottom to top 1.2...33). Pinpointing LEDs have 2 states: bright or not bright. It displays RED when in "alarm" status. If there are multiple targets, LEDs will light simultaneously in all the zones that are in "alarm" status. There is a "MUTE" option available to run without sound.

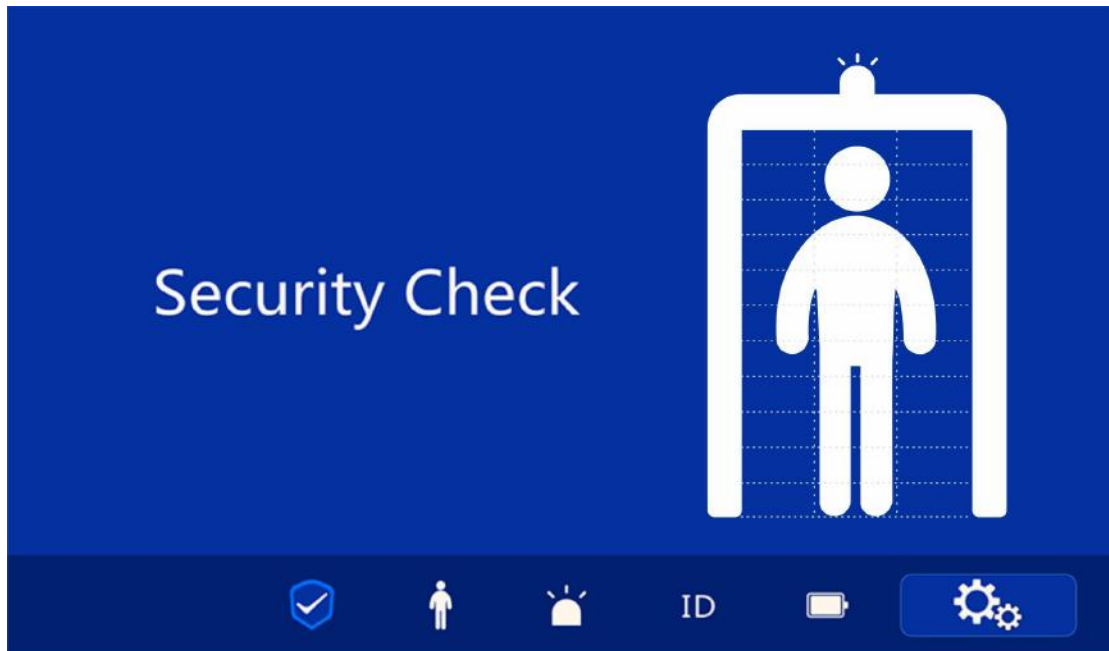



### C. Infrared Sensor(IR)

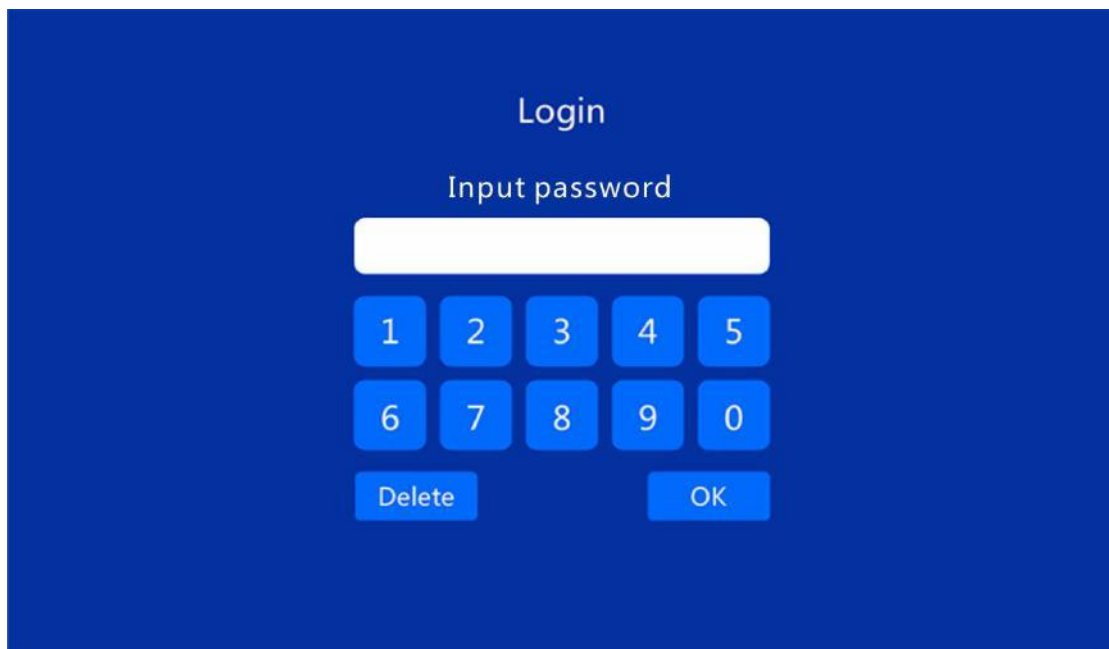
The infrared sensor effectively prevents "nuisance" alarms. Alarms can only sound when the IR beam is broken by a person passing through the arch. The IR also counts the number of people that walk through.

## 【OPERATION】

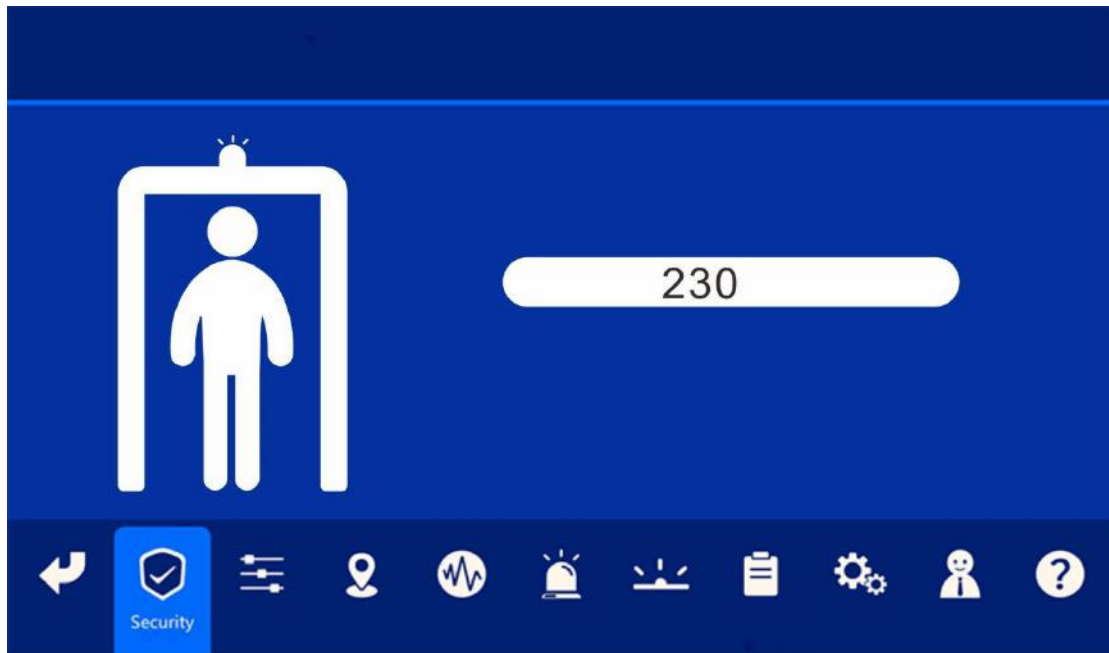
After powering up the WTMD you should see the following:



1. Click above icon  will show below login interface.  
(Initial password is 12345)



2. Input the proper password , click “OK”, then show “Security Level” interface:

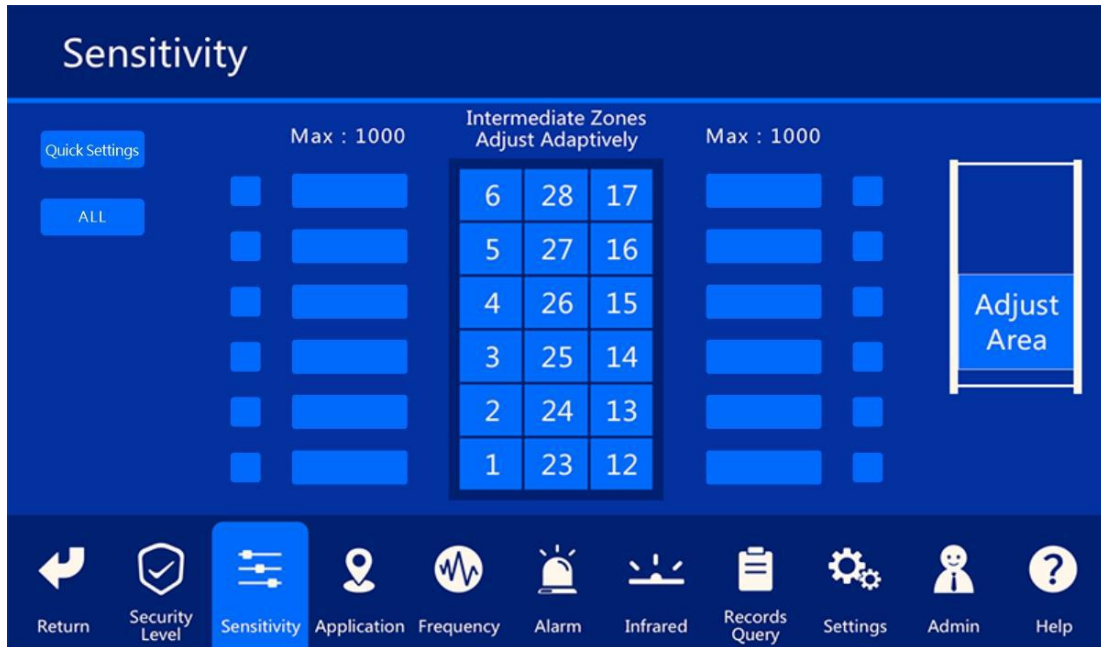


3. In “Security Level”, it allows you to select the required level for overall sensitivity. Input the value to reduce or increase the overall sensitivity level.

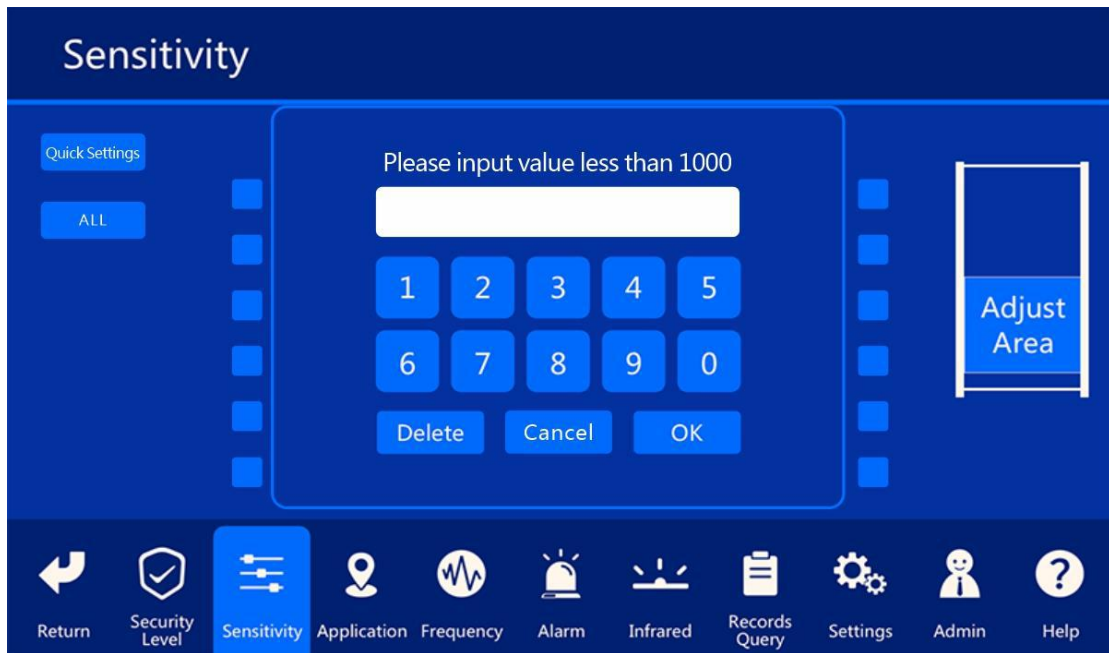


4. Selecting the “Sensitivity” Icon allows you to change the each zone sensitivity value.

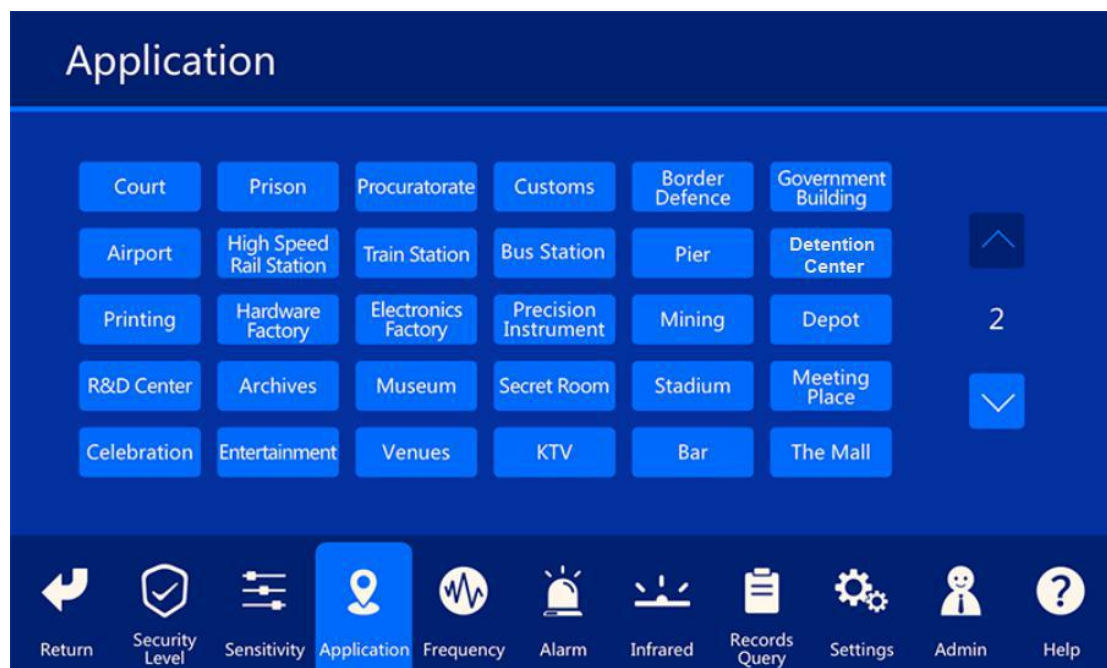
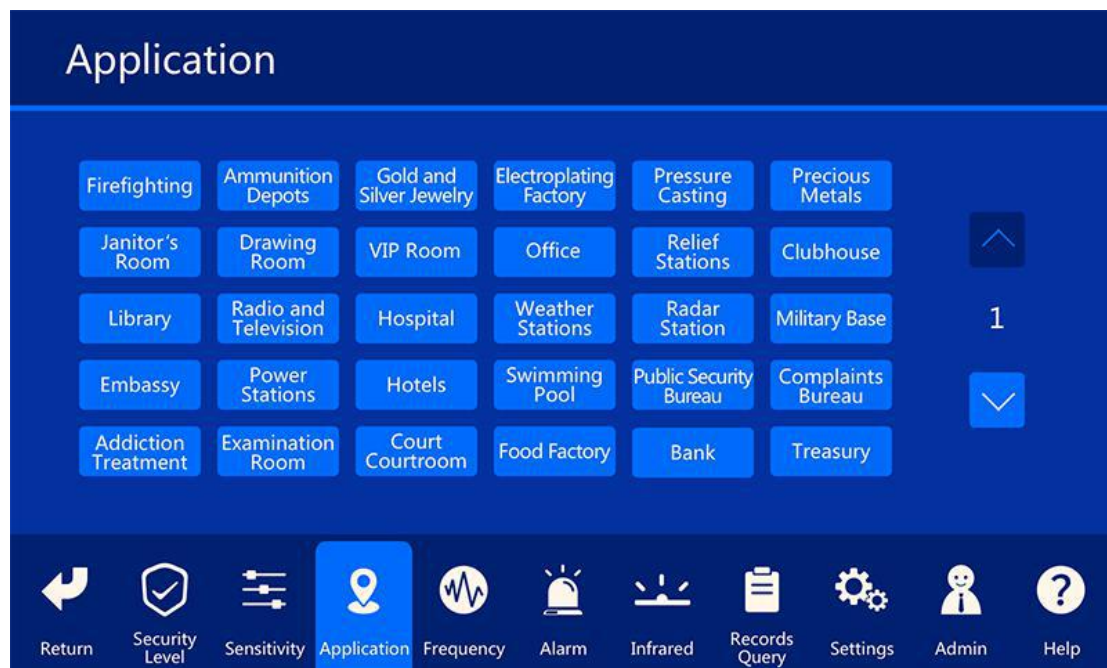
The “Quick Settings” option allows you to set a specific zone’s sensitivity level more quickly.



The “ALL” option allows you to quick set all zones’ sensitivity level more conveniently.





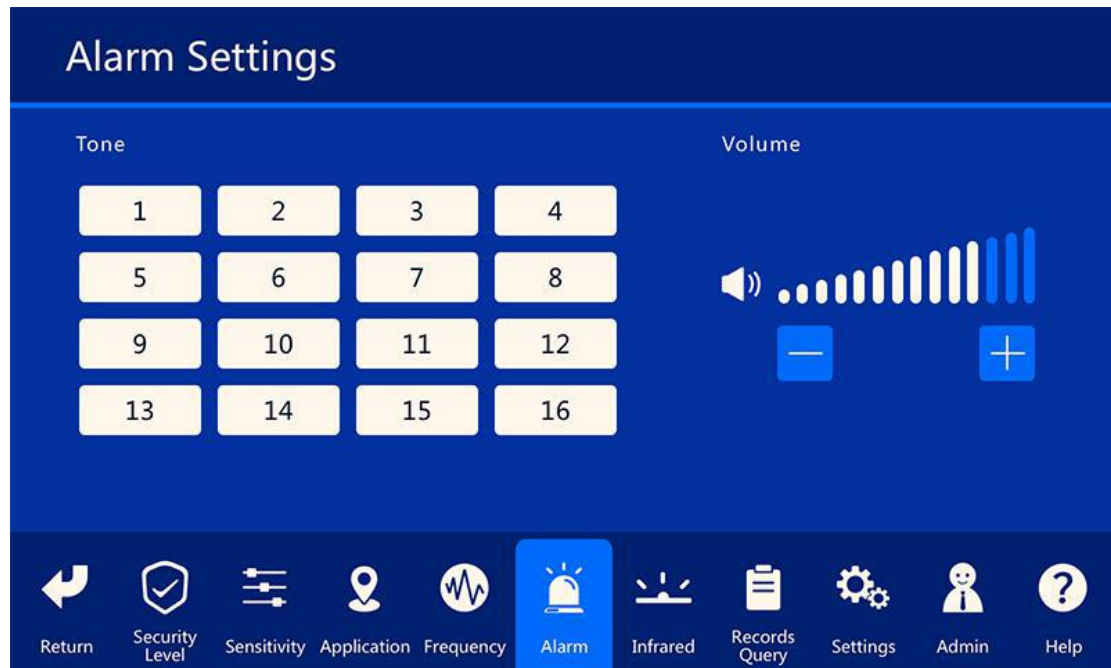
5. Click “Application” to enter the real-time environment operations. The device has a total of 60 applications to choose (displayed in 2 pages), users can choose the settings that best with their particular application needs.



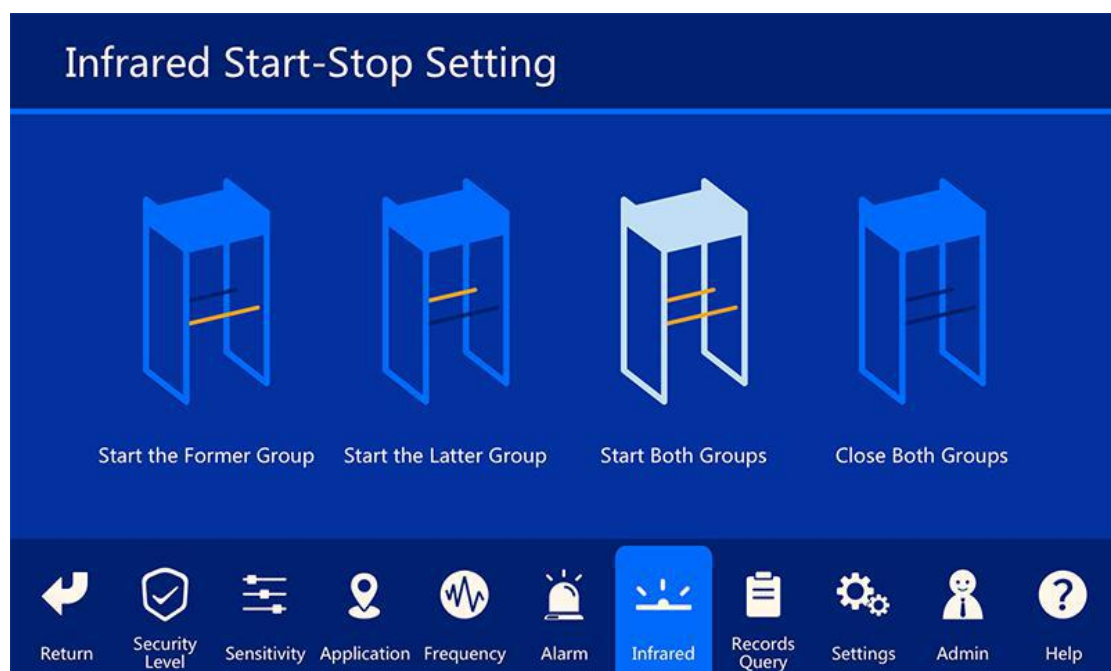
6. Click “Frequency” to enter device frequency setting, can input frequency number to set frequency adjustments. If you have more than one metal detector in the same area, each unit should be set to different frequencies.



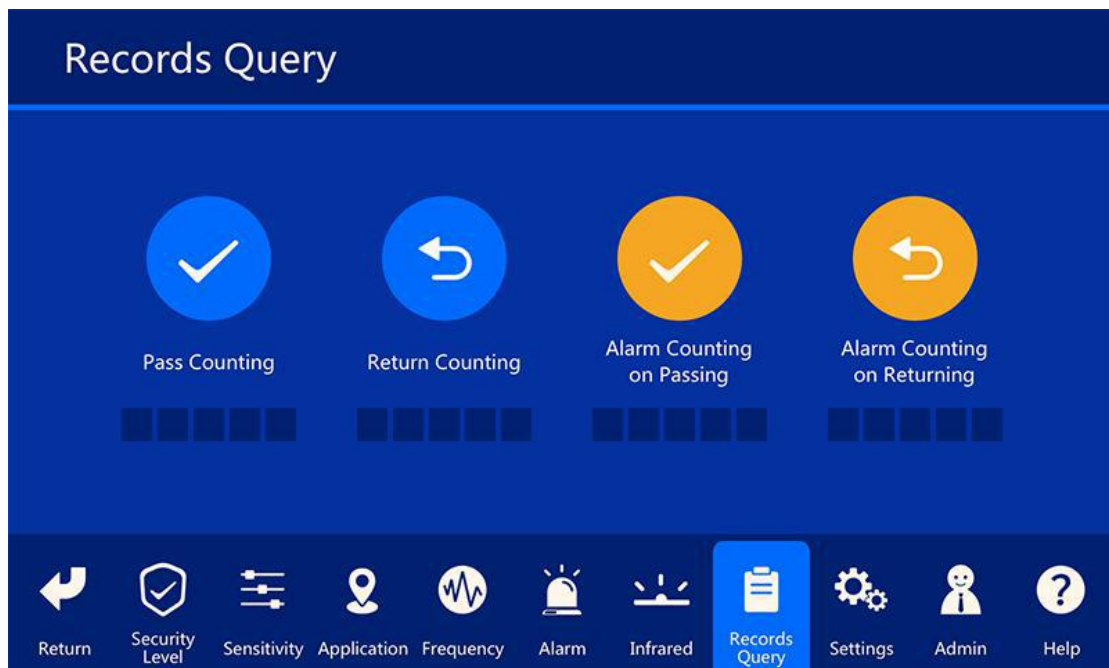
7. Click “Alarm” setting, the left side of the screen is the tone setting. You can select the tone that works best for your needs and wants. The right side of the screen is the volume adjustment, and the volume is adjusted by clicking  and .



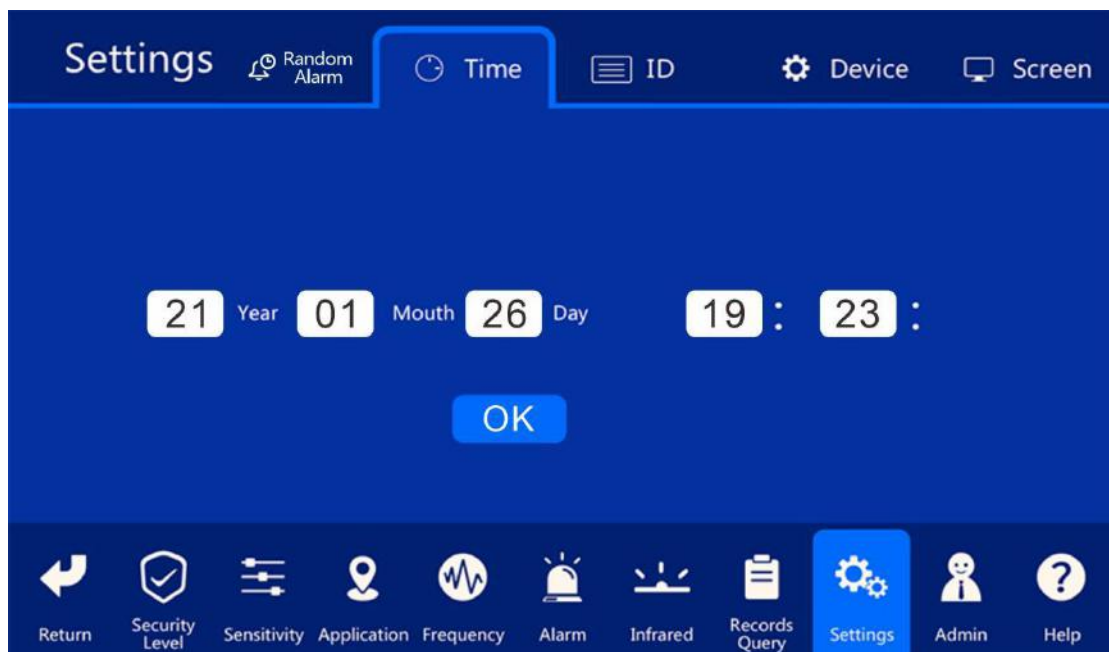
8. Click “Infrared Start-stop Setting”, you can select “Start the Former Group”, “Start the Latter Group”, “Start Both Groups” and “Close Both Groups”. Under normal circumstances, select “Start both Groups” can improve the performance of device in a maximum level. The picture below shows the IR settings that you can choose from. If you’d like to detect everything, including “flying objects”, select Close Both Groups.



9. To review historical records, Click “Records Query”, it displays “Pass Counting” “Return Counting” “Alarm Counting on Passing” “Alarm Counting on Returning”

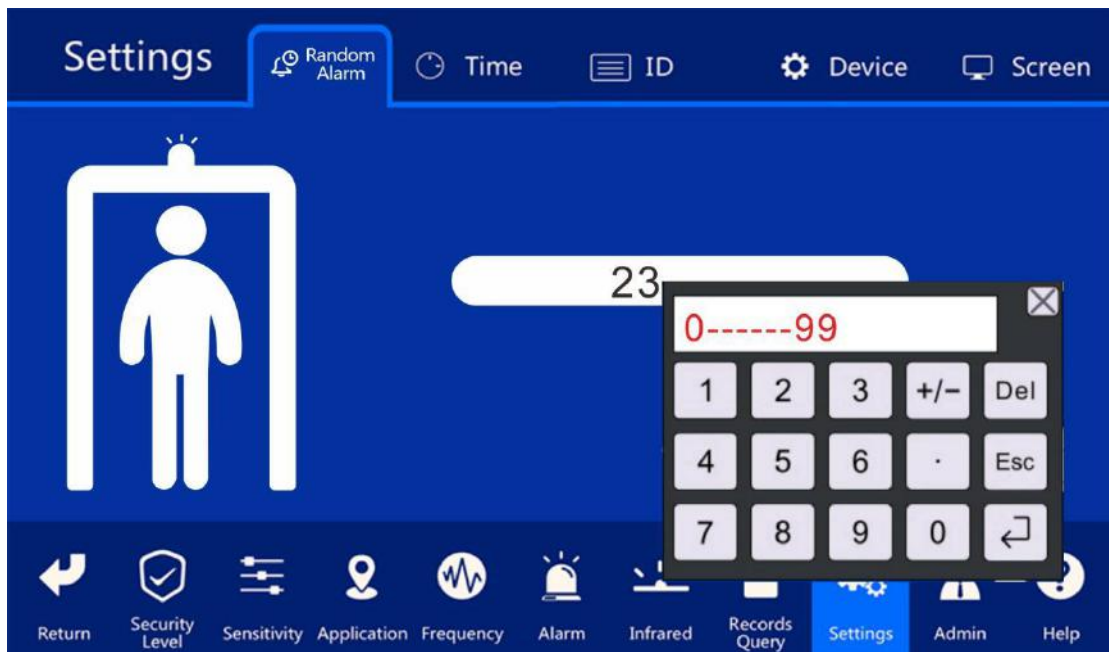
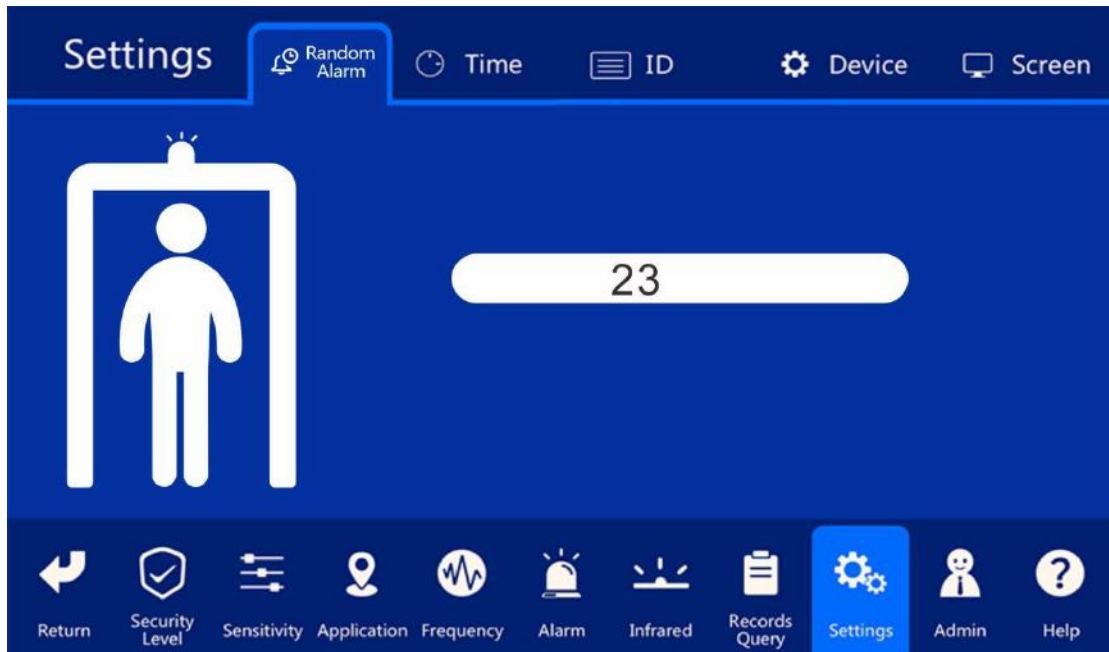


10. Click “Settings” to adjust the device to precise local time.



11. Click “Random Alarm” to adjust the Random Alarm value.

It is randomly alarm according to a certain % value (when no metal on passing person.) And it only works when with person pass through. If no need use this function, adjust the value to 0 means off. Or set other value to use. The larger the value, the higher the randomly alarm frequency. (e.g., if 100 person pass without metal and no alarm, when the value adjusted to 10, means it will randomly give 10 alarm from these 100 person. And this alarm is all lights will show up, which is used to increase the operator’s attention.)

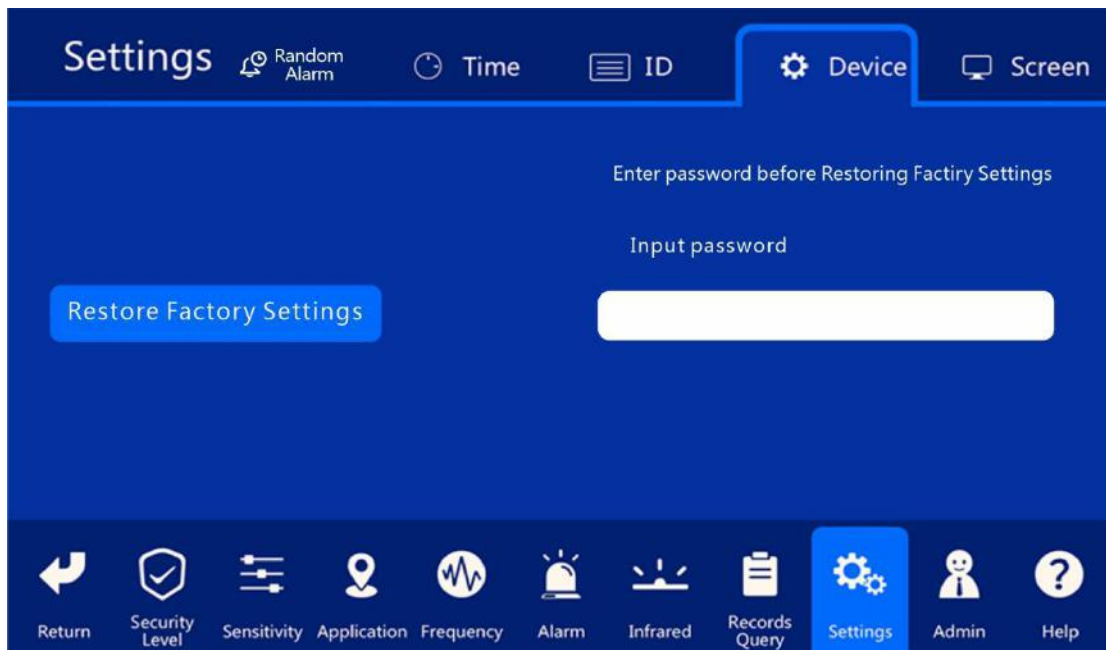


12. Click “ID” to set ID of the device, maximum is “999”

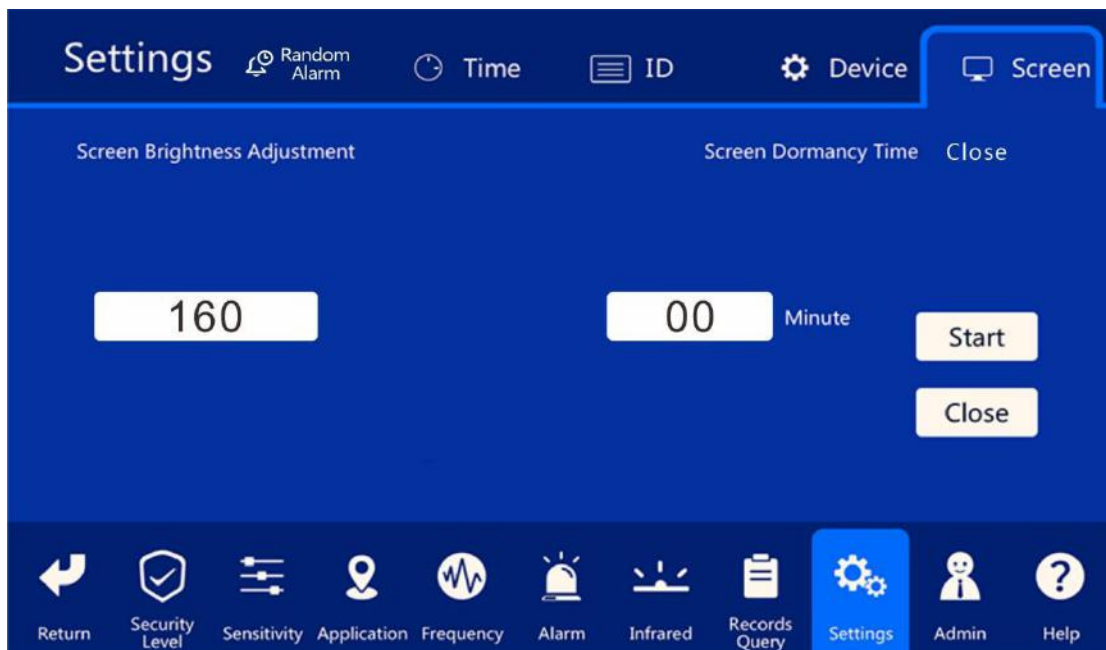


13. Click “Device”.

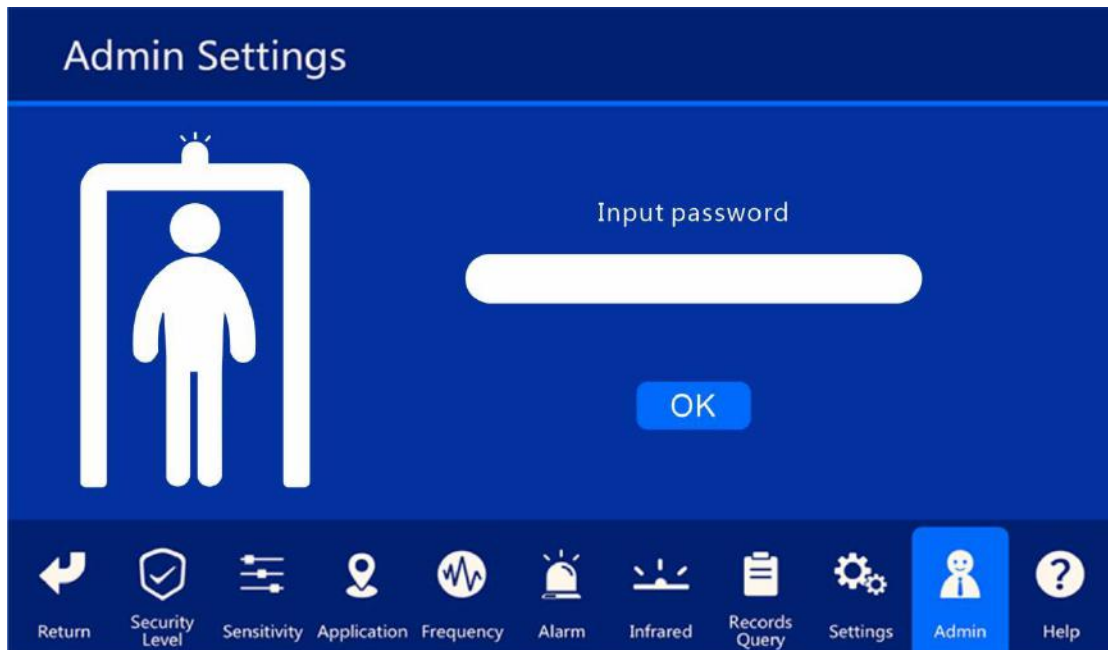
If you need to restore the device to its original default state, click “Restore Factory Settings” and enter the password.




14. Click “Screen” can adjust the “Screen Brightness” and “Screen Dormancy Time”. You can also select "Start" or "Close" to turn this feature on or off.

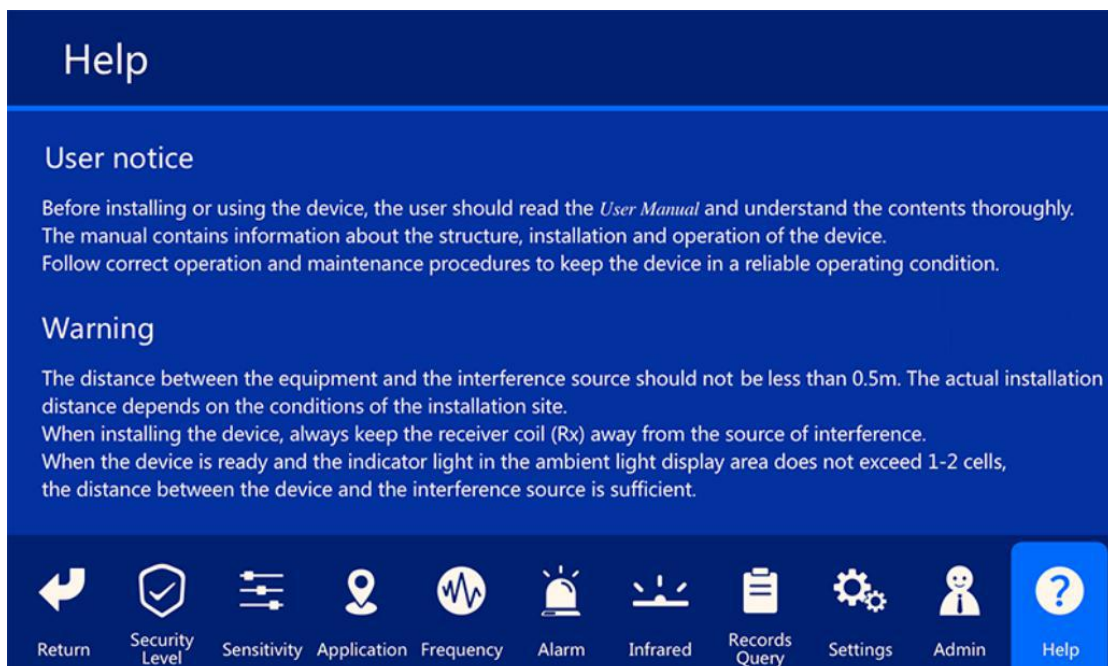


15. Click “Admin” to enter password setting. The initial password is “12345”. The system will show “enter a new password” after initial password input, the new password should be 5 digits. Please keep your new password in mind after setup finished.



16. Click “Help” to read the “User Notice” and “Warning” Carefully.

Click , setup of the device is completed.



## **【OPTIONAL FUNCTIONS】**

PC Network, Wireless Network, Turnstile Integration, UPS, Camera, etc.

## **【DETECTION ADJUSTMENT】**

**1. Install the Walk Through Metal Detector in a stable location to achieve the best detection results (Please refer to "Installation Environment") Below are steps for telling if the Walk Through Metal Detector is in a steady state:**

- 1) 1 minute after start up, the Walk Through Metal Detector gate should be stable.
- 2) During testing, there should be no alarm when tester a person walks through the detector with no metal.
- 3) If the above situations are true, the Walk Through Metal Detector is in a stable state.

**2. In order to exclude the influence of small metal objects such as rings, key, belt buckle, shoes, please adjust using the following steps:**

- 1) Take a small metal object as a sample, such as a string of keys.
- 2) Set the sensitivity to a desired level, then send the test person with the sample through the walk through metal detector. If the detector alarms, make the following adjustments:
- 3) Lower the sensitivity level, and test again. Continue lowering the sensitivity level until the object does not cause an alarm.

### **Notes:**

You also have the options of adjusting certain zones to allow the item through.

*For example:*

you could adjust the middle zones that correspond to pant pockets, where keys might normally be found. If the object is in a different zone, it would still alarm.

### **3. Passing Rules and Recommendations:**

- 1) Draw a waiting line 50cm away from the front or back of the walk through metal detector, so that the person being detected are queued to pass one by one.
- 2) When passing the walk through metal detector, person being detected needs to place the metal objects (such as key, mobile, employee card, cigarettes, coins and so on) on the side of the walk through metal detector chute or wooden table. After

successfully passing the person may retrieve their personal belongings.

3) The inspected person should be queued to pass the security gate one by one. They should not be crowded, and they should walk through the detector at normal pace. They should not intentionally rush or slow down, and should not bump the panels.

4) When the inspected person passes the security check gate, if there is no alarm sound after pass completed, then the next person can continue to pass. If there is an alarm sound, the second person can pass after the alarm sound stops.

5) When the inspected person causes an alarm, the panels indicates the location of the metal objects. Security staff can then confirm the location using a hand-held metal detector.

6) For higher sensitivity requirements, take note of the following: persons should not wear metal hair clips, metal earrings, metal chains, metal buckles, snaps, zippers, bracelets, shoes with metal shanks or supports or metal eyelets, etc. Care should be taken to eliminate and reduce all “personal” metal to maximize the effectiveness of the WTMD.

## **【FAQ】**

### **1. Infrared does not count.**

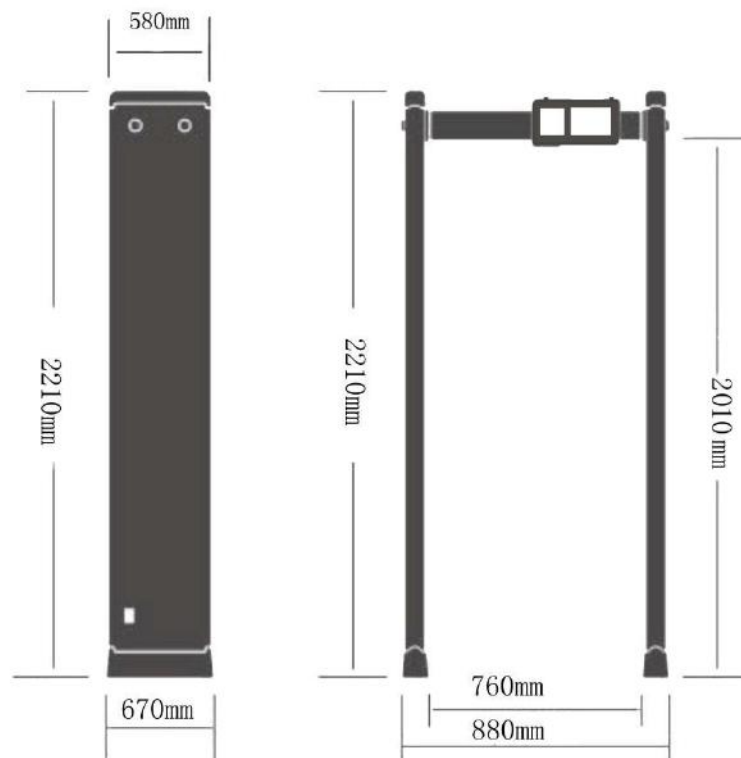
- 1) Please check if the left and right panel are properly connected to the detection head.
- 2) Please check if there is infrared interference near the left and right side infrared head. i.e.: infrared CCTV camera, infrared remote controller (when pressing the button), outdoor sun exposure and so on.
- 3) If there's no problem with both 1) and 2), please change and replace the infrared head.

### **2. False alarms or Nuisance Alarms.**

- 1) First, consider the installation environment. There should be no moving or static large metal objects within a distance of 1.5M. If there are large metal objects, move the detector to a new location or remove the metal from the area if possible. Also, be aware of vibrations in the area that could cause metal in the area to move near the detector, such as opening and closing doors, wind, air conditioning units, etc.
- 2) If there is no environmental factor, reduce sensitivity levels on the overall sensitivity and zone sensitivity. If you continue to experience high false alarm, then try the following:

- a. Adjust the frequency range of the detector to eliminate possible interference from other sources.
- b. Make sure there is no Frequency Conversion Equipment working near the device. Such as, elevator that with a frequency converter, or the injection molding machine, etc., because these machines will cause serious interference to walk through metal detector while working .
- c. If none of the above options results in stable operations, it is recommended to change the location of the detector to a new, more stable location and environment.

## 【TECHNICAL SPECIFICATIONS】



Working Voltage.....	100-240VAC
Power Frequency.....	50-60Hz
Power Consumption.....	<20W
Working Temperature.....	-10℃~45℃
External Height.....	2210mm
External Width.....	880mm
Internal Height.....	2010mm
Internal Width (Standard).....	760mm
Depth.....	580mm
Net Weight.....	47KG

## 【FACTORY PARAMETERS】

Product Name	Walk Through Metal Detector
Alarming Time	1 second
Zone Sensitivity Level (1-33 detection zones)	1000
Menu Password	12345

## 【PACKING LISTING】

Thank you for purchasing our Walk Through Metal Detector. Please make sure that the following items are in the box. If any items are missing or damaged, please contact us.

Item Description	Quantity(pcs)
Detection Door Panel	2
Crossbar	2
Head Controller	1
Screw Bolt	10
Power Cord	1
User Manual	1
Screws for Fix WTMD on Floor	4

## 【WARRANTY CARD】

1. Please keep this card and present it at the time of repair
2. Please make sure all information is filled out correctly. Send a copy to us and keep a copy in your records.

Product Model	
Product Code	
Purchasing Date	
User Contact	
Postal Code	
Address	
User Tel.	
Fax	

### Maintenance Records

Date	Records	Maintenance staff