

PE-Multi 433L

Walk-through metal detector



Screen Display: Standby or No Alarm



Screen Display: Alarm



Walk-through metal detectors (commonly referred to as security gates or detection gates) are a type of fixed-installation detection equipment primarily used to detect whether individuals are carrying metal objects. When a person passes through the security gate, if the metal on their

body exceeds the preset threshold, the gate immediately triggers an alarm and displays the location of the metal causing the alarm, allowing security personnel to promptly identify the metal object the person is carrying.

Product Overview

The Zhonghaoyue PE-Multi 433L Walk-Through Metal Detector is a high-performance security gate characterized by its lightweight design, strong anti-interference capabilities, and stable performance. This product utilizes an electromagnetic field detection mechanism to detect metal objects carried by individuals, indicating when the amount of metal exceeds a certain threshold through audible and visual alarms. It consists of a main unit, a high-frequency signal generator, a signal receiver, and infrared sensors. With its sleek and elegant design, strong metal detection capability, multiple detection zones, and the option to integrate a unique internet-based remote management system, it is currently a leading metal detector on the market. It is widely used in major hospitals, schools, subways, airports, and other critical locations.

Features

Digital Pulse Technology

Equipped with a digital signal processing and filtering system, it offers excellent resistance to electromagnetic interference. Even when multiple units are placed side-by-side, there is no significant impact on detection performance.

Magnetic Field Safety

Complies with international safety standards and utilizes low-field technology, posing no harm to individuals with pacemakers, pregnant women, and others, while also having no adverse effects on floppy disks, film rolls, videotapes, and similar products

Intelligent Display

High-definition LCD touchscreen display with simple operation and comprehensive information. The screen uses a mannequin diagram to indicate the location of the alarm, and supports functions such as alarm location guidance, alarm time, passage instructions, number of people passing through, number of alarms triggered, and system time

Detection Accuracy

At maximum sensitivity, the system can detect a metal object the size of a paperclip at the center of the gate; it prevents false negatives and false positives; it can filter out interference from items such as belt buckles, leather shoes, and bras; it can detect metals weighing 150 grams or more, including copper, aluminum, and zinc, as well as restricted knives and firearms

Interlock Control

Capable of outputting ≥ 1 control signal to devices requiring mutual control, such as X-ray security scanners, turnstiles, access control systems, and time clocks

Data Statistics

Dual-sided infrared beams accurately detect the number of people passing through and the number of alarms triggered, and support separate counting in both directions as well as multiple infrared mode options

Data Storage

Capable of storing data such as the number of people passing through, the number of alarms, and alarm details, with the ability to query historical records; supports storage of $\geq 100,000$ data entries

Quick Sensitivity Adjustment

Supports adjustment of detection sensitivity and vibration sensitivity. Detection sensitivity offers three-level quick adjustment (High, Medium, Low), with each level adjustable from 0 to 255. Each detection zone supports 0 - 255-level adjustment, and vibration sensitivity is adjustable from 0 to 255

Alarm Sounds

Supports 100 different alarm tones. When multiple security gates are in use simultaneously, different alarm tones can be set to distinguish between them. Each tone supports 100 levels of adjustment, supports a mute mode, and supports adjustable alarm duration from 1 to 12 beeps

Multi-Zone Alarms

The product supports 11-, 22-, and 33-zone detection modes, allowing for flexible switching based on the application scenario. Suspicious objects are accurately displayed in each zone, and high-brightness red LED flashing alarms are supported

Passage Indication

The product features a green LED passage indicator: the green LED remains lit when no one is passing through, and turns off when someone is passing through. When the security gate triggers an alarm, text prompts such as "Do Not Pass" appear, accompanied by a flashing red LED alert.

Alarm Localization

High-brightness LED lights are mounted on both sides of the gate pillars. When the security gate triggers an alarm, the location lights clearly indicate the zone where the prohibited item is located. Simultaneously, the screen displays a silhouette of a person and provides guidance on the exact position where the item was detected.

Size Indication of Detected Items

Displays the amount of metal detected during an alarm

Self-Diagnostic Function

Supports power-on self-test (POST) and manual self-test; automatically checks the system upon startup and displays the test results; displays a screen notification indicating the cause of the fault when a problem occurs

Flying Object Alarm

Accurately triggers an alarm even if a metal object is thrown through the center of the door

Multi-Scene Settings

Supports quick setup for 54 application scenarios; automatically matches the appropriate security level and sensitivity for each scenario, while also supporting customization for special scenarios.

Password Protection

Program settings, sensitivity, and other parameters can only be modified after entering the correct password. Users can set their own passwords, and a password recovery feature is available

Firmware Updates

Supports firmware updates via local or network connections

Door Material

The exterior is made of PVC, identical in material to imported brands. It is aesthetically pleasing, elegant, fire-resistant, corrosion-resistant, moisture-resistant, and impact-resistant, and does not deform.

Technical Specifications

Dimensions:	2220 × 480 × 835 mm	Gross Weight:	45.5 kg
Passage	1980 × 480 × 720 mm	Net weight:	40 kg
Dimensions:			
Packaging	2300 × 550 × 200 mm	Power	<12W
Dimensions:	840 × 260 × 340 mm	consumption:	
Operating	AC 100V–240V, 50/60 Hz	Operating	95% RH (non-condensing)
Voltage:		humidity:	
Detection range:	Maximum sensitivity: ≥6g of metal	Ambient	-20°C to 65°C
		temperature:	
Main Unit	Supports animated figure display	Alarm location	Supports alerts for 11 body
Interface:		alerts:	locations
Alarm duration:	Supports alarm time display	Passenger	Supported
		Count Display	
Passage	Supported	Display of	Supported

Intelligent Detection Series Walk-Through Metal Detector

Indication:		number of people triggering an alarm	
System Time:	Supported (Year, Month, Day display)	Self-test:	Supports independent self-tests for audible alarms and warning lights
Power-on self-test:	Supports automatic diagnostics upon startup, identifies component failures, and issues alerts	Overall sensitivity:	Quick adjustment with three sensitivity levels: high, medium, and low
Operating Frequency:	Adjustable from 1 to 50 levels	Overall sensitivity:	Adjustable from 0 to 255 levels
Alarm Volume:	Adjustable from 0 to 100	Zone sensitivity:	Adjustable from 0 to 255
Alarm tone:	Adjustable from 1 to 100 tones	Vibration sensitivity:	Not supported
Audio alarm duration:	1–12 tones, adjustable	Alarm mode:	Adjustable from Level 1 to Level 2
LED alarm duration:	Adjustable from 1 to 254 seconds	Password Management:	Supported
Random alarm:	Adjustable from 0 to 100 levels	Password Change Function:	Supported
Passage Count Storage:	Supports power-off data retention	Data storage:	Supported
Alarm count retention:	Supports power-off data retention	Screen brightness:	Adjustable from 20 to 100 levels
Alarm Log:	Supports on/off	Factory Reset:	Supports one-click factory reset
Alarm Log Query:	Supported	Operating Time:	Supports display of cumulative operating time

Intelligent Detection Series Walk-Through Metal Detector

Display Screen:	7-inch HD LCD touchscreen display; the screen uses a pictogram to indicate the alarm location and supports functions such as alarm location guidance, alarm time, access instructions, number of people passing through, number of alarms triggered, and system time	
Detection Zones:	Supports switching between four modes: 11-zone, 22-zone, and 33-zone	
Infrared Mode:	Supports 4 independent on/off modes: Front Group, Rear Group, Both Groups, and Flying Object Mode	
Application Scenarios:	Supports 54 application scenarios, with support for scenario expansion	
Installation Environment:	Width 100 cm × Length 200 cm (minimum horizontal distance between metal-free areas)	
Power-outage backup mode:	Independent power supply ensures safe detection during power outages	Optional
Internet Management:	Can be connected to the network for centralized management and log querying	Optional
Alarms on all four sides:	360-degree all-around alarm display	Optional
Compliance Standards:	Interference resistance complies with EN 50082-1	
	Emission compliance with EN 50081-1	
	Electrical safety complies with EN 60950	
	GB 15210-2018 General Technical Specifications for Walk-Through Metal Detectors	
Product Certifications:	Certified to EU CE, FCC, RoHS, and FDA standards	
Corporate Certifications:	Certified to ISO 14001:2015 Environmental Management System	
	Certified to OHSAS 18001:2007 Occupational Health and Safety Management System	
	Certified to GB/T 19001-2016 / ISO 9001:2015 Quality Management System	
Order Model: PE-Multi 433L Equipment List: 2 cartons Configuration List: 1、 Manual, Warranty Card, Certificate of Conformity X 1 2、 1.8-meter power cord X 1 3、 Main unit X 1 4、 Left detection door panel X 1		

Intelligent Detection Series *Walk-Through Metal Detector*

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|-------------------------|---|---|
| 5、Right detection panel | X | 1 |
| 6、Bolts | X | 8 |
| 7、Allen wrench | X | 1 |
| 8、Main unit key | X | 1 |