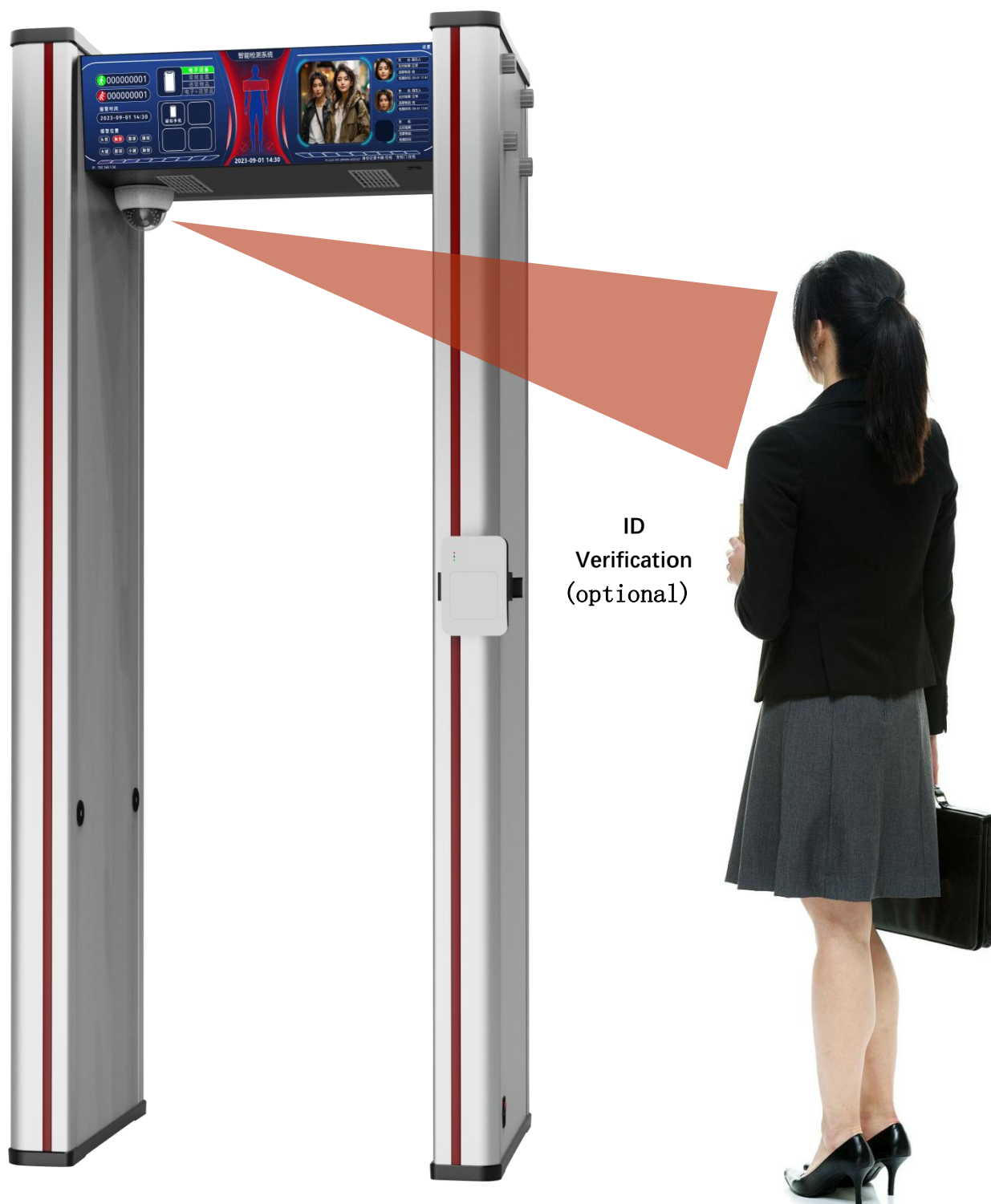


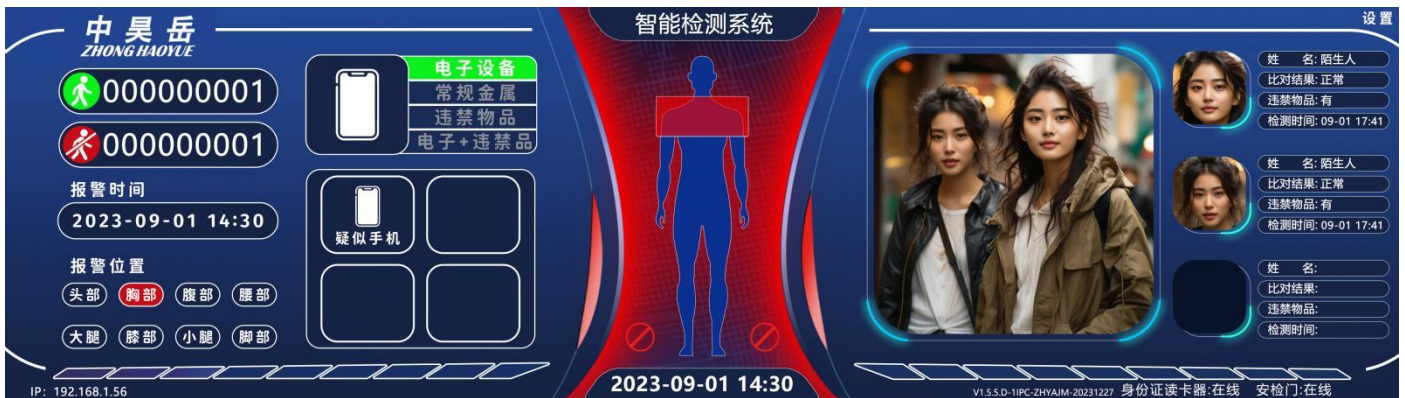
PE-Multi Z929

Intelligent Walk-Through Metal Detector

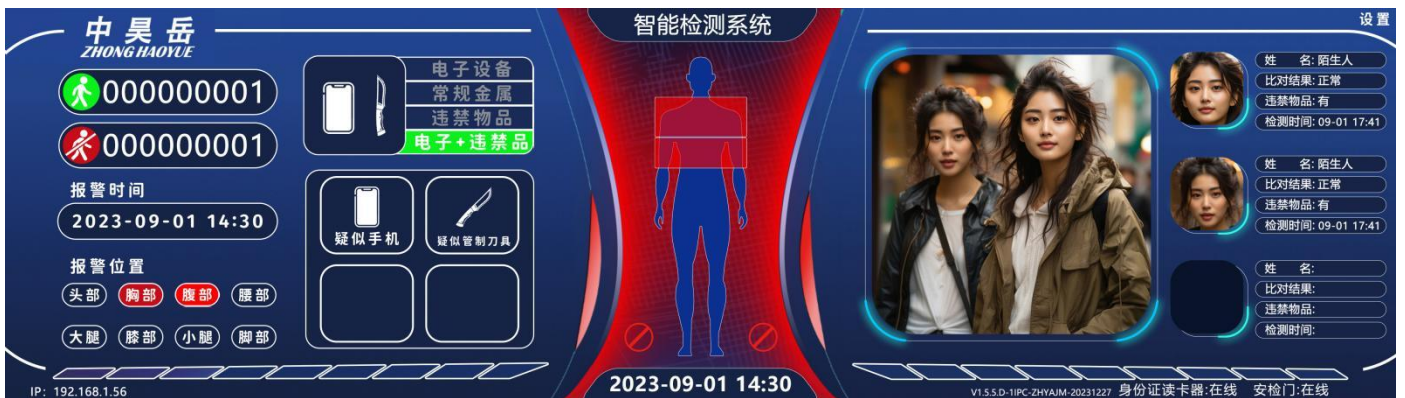


Screen Display: Alarm

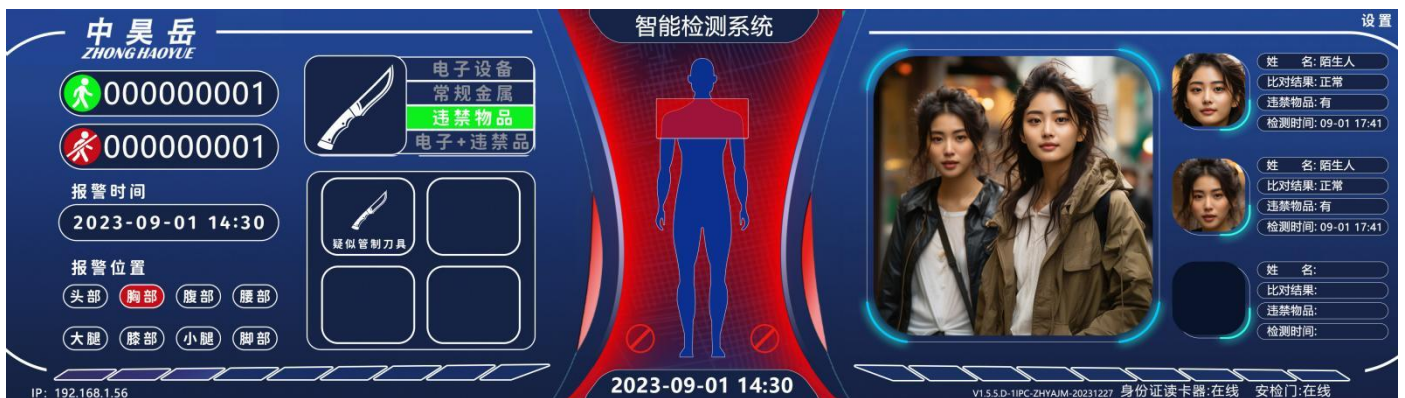
In **electronic device detection mode**, carrying mobile phones and other electronic devices triggers an alarm and displays a red "No Entry" icon; carrying other metals does not trigger an alarm



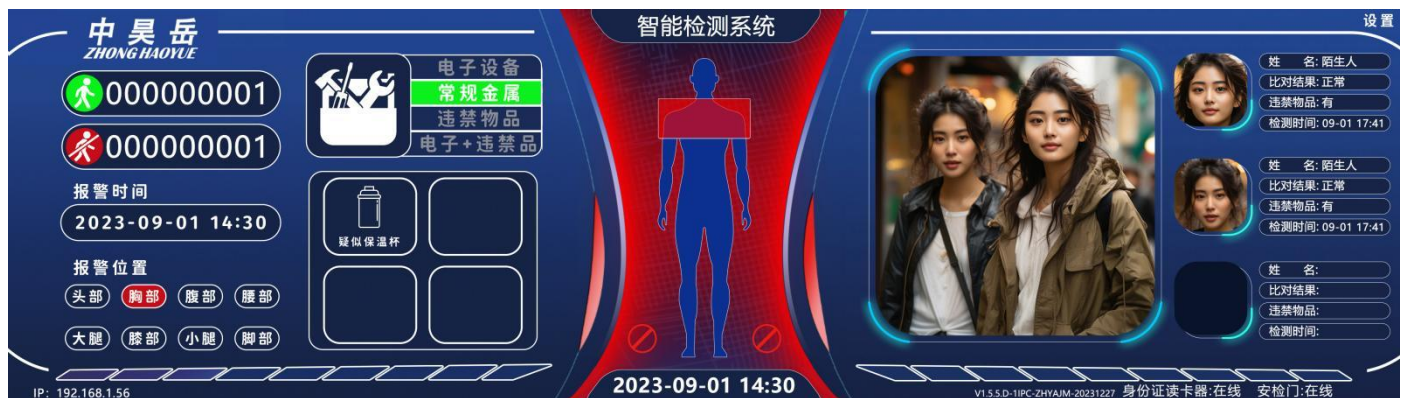
In the **Electronic Devices + Prohibited Items** Detection Mode, carrying items such as cell phones and restricted knives triggers an alarm and displays a red "No Entry" sign; carrying other metals does not trigger an alarm



In **Prohibited Items** Detection Mode, carrying restricted knives and similar items triggers an alarm and displays a red "No Entry" sign; carrying other metals does not trigger an alarm



In **standard** metal detection mode, an alarm sounds for all metal objects, and a red "No Entry" sign is displayed



Product Overview

The Zhonghaoyue PE-Multi Z929 Intelligent Walk-Through Metal Detector utilizes eddy current effects and electromagnetic induction principles to obtain material information about detected metal objects. It then employs three-dimensional field strength transformation technology to capture the three-dimensional shape information of these objects. By integrating weak signal detection technology, precision filtering technology, and digital signal processing technology, the system compares the data against a product database to calculate the material and shape of the detected items, thereby separating electronic products requiring inspection, prohibited items and everyday items. It features powerful and highly integrated functionality, diverse data query and statistical analysis displays, and highly integrated security inspection information. It employs a 29-inch high-definition smart display screen with a downward-tilted design that adheres to ergonomic principles, ensuring simple operation and rich display content. The screen's mannequin graphic displays information such as the alarm location, alarm category, real-time video footage, facial images, comparison results, and historical data; It supports process snapshot capture and enables historical record review; it also features enhanced resistance to interference from wind and vibrations, making it suitable for high-traffic environments such as exam halls, bid evaluation rooms, public security and government agencies, classified facilities, transportation hubs, corporate campuses, office buildings, hospitals, cultural and museum sites, and large-scale security events.

Features

Digital Pulse Technology

Equipped with a digital signal processing and filtering system, it offers excellent resistance to electromagnetic interference; even when multiple gates 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 or pregnant women, while also having no adverse effects on floppy disks, film rolls, or videotapes

Detection Modes

Electronic Device Detection Mode, All-Metal Detection Mode, Prohibited Items Detection Mode, Electronic Device Detection Mode Prohibited Items Detection Mode

Electronic Device Detection Mode

Effectively filters out interference from everyday personal items such as coins, eyeglasses, watches, belt buckles, magnets, keys, cigarettes, and lighters, while accurately detecting whether a person is carrying a mobile phone in any state, as well as sensitive electronic devices such as laptops, iPads, digital cameras, and camcorders, and displays the results in a categorized format with text and images

All-Metal Detection Mode

When a person carrying more than the allowed amount of metal passes through the security gate, the system will trigger an audible and visual alarm, effectively verifying the presence of prohibited items

Prohibited Items Detection Mode

Effectively filters out interference from everyday items such as coins, eyeglasses, watches, belt buckles, magnets, keys, cigarettes, lighters, stainless steel water bottles, umbrellas, and other common personal items, while accurately identifying whether prohibited items (such as machetes, axes, firearms, aluminum beverage cans, tin cans, aluminum tubes, metal vest bombs, and metal belt bombs) are present, and displaying the results in a categorized format with text and images

Face Capture

Equipped with a 2-megapixel starlight-level IPC to enable 24/7 continuous facial capture, alarm notification integration, and image recording and retrieval

Facial Comparison

Supports comparison against multiple pre-configured facial databases, with customizable similarity thresholds; triggers corresponding actions when similarity reaches or falls below the threshold

ID Verification (Optional)

Supports ID card verification, comparing the ID card with the live face to trigger corresponding actions

Smart Display

Features an industrial-grade A+ panel and a high-definition 29-inch smart display. The screen is designed with a downward tilt to comply with ergonomic principles, ensuring simple operation

Rich display content: The screen displays an avatar indicating the alarm location and category, and supports

alarm location guidance, alarm time, access instructions, number of people passing through, number of people triggering alarms, system time, real-time video footage, facial images, comparison results, historical data, and other information

High-Definition Information Display (Optional)

Features an industrial-grade A+ panel and an embedded information display screen at the entrance, supporting flexible layout and zoned display of various content types, as well as instant publishing of images, text, rich text, and video information

Interlocking Control

Capable of outputting ≥ 2 control signals to devices requiring mutual control, such as X-ray security scanners, three-roller turnstiles, access control systems, and time-attendance machines

Data Statistics

Dual-sided infrared sensors accurately detect the number of people passing through and trigger alarms, and support bidirectional counting

Data Query and Storage

Capable of storing data such as the number of people passing through, the number of alarms triggered, facial information, and alarm details. Supports querying various types of data, including total passage counts, categorized alarm counts, facial attributes, and facial images. Stores $\geq 100,000$ data entries

Quick Sensitivity Adjustment

Supports adjustment of detection sensitivity; each detection zone supports 0-255 levels of adjustment

Alarm Sounds

Supports 10 different alarm tones. When multiple security gates are in use simultaneously, different alarm tones can be set to distinguish between them. Each tone is adjustable in 100 levels and supports a mute mode

360-Degree Alarm

The product supports ≥ 25 body detection zones, accurately displaying suspicious objects on every part of the body, and features a 360-degree high-intensity red LED flashing alarm.

Passage Indication

The product features a green LED passage indicator. The green LED remains lit when no one is passing through; it 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 installed on all four sides of the gate pillars. When the security gate triggers an alarm, the location of the prohibited item is clearly indicated by the positioning lights. Simultaneously, the screen displays a silhouette of a person and provides guidance on the alarm location

Multi-Channel Communication

Supports multiple communication channels, allowing simultaneous use of multiple devices. Operates stably without interference or impact on performance.

Size Indication of Detected Objects

Displays the size of the detected metal during an alarm

Multi-scenario settings

Supports quick setup for 24 application scenarios; automatically matches the appropriate security level and sensitivity for different scenarios, while also supporting customization for special scenarios.

Network Connectivity

Enables network connectivity and interoperability; integrates with a platform for the upload and management of passenger flow data, alarm data, and information on screened individuals; supports local and web-based debugging

Scheduling

Supports energy-saving mode: set a sleep duration; the device automatically enters sleep mode when no one is passing through and wakes up automatically when someone passes through, promoting energy efficiency and environmental protection

Password Protection

Program settings, sensitivity, and other parameters can only be modified after entering the correct password; users can set their own passwords, and password recovery is supported

One-Click Factory Reset

Supports one-click restoration to factory settings to return the device to its optimal state

Firmware Update

Supports firmware updates via local or network connections

Extensive Interfaces

Supports network connectivity to eliminate information silos; supports uploading security inspection data to servers or platform terminals to enable smart security inspections

Door Material

The exterior is made of PVC, identical in material to imported brands, offering an attractive and elegant appearance. It is fire-resistant, corrosion-resistant, moisture-resistant, and impact-resistant, and will not warp.

Technical Specifications

Dimensions:	2266 (H) × 987 (W) × 669 (D) mm	Gross Weight:	125 kg
Passage Dimensions:	2000 (H) × 727 (W) × 669 (D) mm	Net weight:	110 kg
Main unit packaging dimensions:	830 (L) × 540 (W) × 290 (H) mm	Power consumption:	<66 W
Detection Gate Panel Packaging Dimensions:	2300 (L) × 720 (W) × 190 (H) mm	Operating humidity:	95% RH (non-condensing)
Operating voltage:	AC 100V–240V, 50/60 Hz	Ambient temperature:	-20°C to 65°C
Main Processor:	Industrial-grade embedded	Operating	Embedded Linux operating system

	microcontroller	System:	
User Interface:	Local mouse operation and web-based interface	Detection Range:	Full coverage with no blind spots within the channel
Host Interface:	Supports animated mannequin display	Alarm Location Notification:	Supported
Alarm time:	Supports alarm time display	Number of people passed through:	Supported
System Time:	Supported (Year, Month, Day display)	Alarm count display:	Supported
Operating Frequency:	Adaptive adjustment	Adaptive adjustment	Supported
Alarm Volume:	Adjustable from 0 to 100 levels	Overall sensitivity:	Adjustable from 0 to 255
Alarm tone:	Adjustable from 1 to 10 tones	Zone sensitivity:	Adjustable from 0 to 255 levels
Passage count retention:	Supports power-off retention	Password management features:	Supported
Alarm Count Retention:	Supports power-off data retention	Password Change Function:	Supported
Alarm Log Query:	Supported	Data storage:	Supported
Web-based Management:	Supported	Screen Brightness:	Adaptive
Data Platform Upload:	Supported	USB Ports:	2 external USB 3.0 ports, 6 internal USB 3.0 ports
Face Capture:	Supported	Network Ports:	1 external RJ-45 port, 7 internal RJ-45 ports
Face comparison:	Supported	Factory Reset:	Supports one-click factory reset
Whitelist/Blacklist Database:	Supported	Power-off Standby Mode:	Optional
Face recognition:	Supported	ID Verification:	Optional
360-degree alarm display:	Supported	Contactless temperature measurement:	Optional
Display Screen Size:	Features an industrial-grade A+ panel, a 29-inch high-definition smart display, and supports information dissemination		
Display Screen:	The screen displays an avatar indicating the alarm location and category, and simultaneously supports alarm location guidance, alarm time, passage instructions, number of people passing through, number of people triggering alarms, system time, real-time video footage, facial images, comparison results, historical data, and other information		
Detection Modes:	Electronic device detection mode, full metal detection mode, prohibited item detection mode, electronic device detection mode, prohibited item detection mode		
Application	Supports selection from 24 application scenarios, with support for scenario expansion features		

Scenarios:	
Compliance Standards:	Complies with Intelligent Walk-Through Metal Detector detection standards
	Interference resistance complies with EN 50082-1
	Radiation 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 Z929 **Equipment List:** 3 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、 Face recognition camera X 1
- 5、 Left detection door panel X 1
- 6、 Right detection door panel X 1
- 7、 Bolts X 8
- 8、 Allen wrench X 1
- 9、 Main Unit Key X 1