

DHI-ISC-D118

Walk-through Metal Detector



System Overview

The device is a high-performance Walk through metal detector. It is light weight and has high metal detection sensitivity, strong anti-interference capabilities and stable performance. The device, made of high-strength special materials, is light-weighted and easy to transport and install. The device has a modular design and is manufactured on unified assembly lines, ensuring the good stability. It also delivers an simplicity and user-friendly interface.

Functions

Zone Indication

6, 12, or 18 independent zones selectable, and multiple metal items can be located simultaneously.

Optimized IR Sensor

Infrared (IR) sensor with less false or missed alarms; automatic alarm statistics and passing statistics; IR detection and multiple detection modes.

Counting Mode

One-way counting; in/out counting; searching by day.

Digital Signal Processing Technology

Digital signal processing and filtering system ensure exceptional immunity to electromagnetic interference.

Adjustable Sensitivity

255 adjustable sensitivity levels in each detection zone (sensitivity increases by levels).

Password Protection

Programming access and parameter configuration protected by six-digit password.

Electromagnetic Field Emission Technology

Complies with the current international security standards by using Very Low Frequency electromagnetic fields. No harm caused to pacemakers, pregnant women and magnetic storage devices.

- 18 detection zones with corresponding indicator lights
- Minimum detect target: CNY ten-cent coin
- 3.5 inch LCD with an interactive, user-friendly interface
- Monitor and display the real-time signal strength of environmental interference
- Automatically searches operating frequency (20 levels available)
- Counting passing number, pass/return numbers, and alarm number
- Pass/Return statistics, alarm statistics, and searching by day
- Easy-to-install modular design
- Safe low-voltage design
- Reliable and stable aviation connector
- 9 alarm tones with 10 adjustable volume levels, mute mode and alarm duration: 0–10 s
- 255 adjustable sensitivity levels
- Separate parameter configuration for 12 supported scenarios
- IR remote controller
- Multiple IR detection modes
- Supports lead-acid batteries (optional)

Adjustable Sound and Volume

9 alarm tones with 10 adjustable volume levels, mute mode and alarm duration (0–10 s).

Adjustable Frequency

Automatically searches for and applies suitable operating frequency; supports 20 adjustable levels.

Multi-scenario Mode

Supports 12 scenario modes, and automatically applies corresponding sensitivity.

Detection Accuracy

Minimum detection target: CNY ten-cents coin.

Self Diagnosis

Automatic diagnosis plus manual self test.

Time Display

Displays the current time.

Network Update

Network firmware update.

Alarm Output

Supports 1-channel relay output, which can connect to devices such as access controllers.

Scene

The walk-through metal detector is suitable for use in the following scenarios: Security screening of prohibited metal items in law enforcement sites such as public security, the procuratorate, tribunal, prison, labor camp, and detention house. It is also suitable for security checks at the entrances of public spaces, including stadiums, entertainment places, airports, customs, exhibition halls and museums.

Technical Specification

Technical

Detection Sensitivity	NILECJ-STD-0601.00 Level 5
Precise Positioning	18 overlapping detection zones, bilateral transmission and receipt of detection signals; 2-panel indicator lights
Zone Indication	6, 12, or 18 independent zones selectable, and multiple metal items can be located simultaneously
IR Sensor	Infrared sensor can reduce false alarms; automatic alarm statistics and pass/return statistics
Adjustable Sensitivity	255 adjustable sensitivity levels in each detection zone (sensitivity increases by levels)
Remote Control	Comes with a infrared remote controller with the maximum remote control range of 2 m (6.56 ft)
Leakage Current	< 0.5 mA, complying with safety requirements for electronic devices

Regular

Operating Voltage	12 VDC, power adapter (included): 100 V–240 VAC, 50/60 Hz
Maximum Power Consumption	11 W
Typical Power Consumption	7.8 W
Gross Weight	47 kg (103.62 lb)
Net Weight	37.5 kg (82.67 lb)
Passageway Interior Size	2003 mm x 720 mm x 393 mm (78.86" x 28.35" x 15.47")
Overall Exterior Size	Bare: 2209 mm x 866 mm x 489 mm (86.97" x 34.88" x 19.25")
Packing Size	2275 mm x 700 mm x 220 mm (89.57" x 27.56" x 8.66")
Operating Temperature	-20 °C to +65 °C (-4 °F to +149 °F)
Operating Humidity	0–95% (RH), non-condensing
Storage Temperature/ Humidity	-20 °C to +65 °C (-4 °F to +149 °F)/0–95% (RH), non-condensing
Power Button	Power switch on both door panels, and metal detection power switch on the front panel
Indicator Light	One green indicator
Human Shape Display	18 detection zones

Environmental Noise	Monitors and displays real-time signal strength of environmental interferences
Installation	Vertical mounting

Certifications

Certifications	GB15210-2018 IEC 60068-2-1 IEC 60068-2-2 CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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Ports

RS-485	1
Alarm In/Out	1-channel input, and 1-channel output
Network Port	1 RJ-45, 100 Mbps
Power Output	12 VDC

Ordering Information

Type	Model	Description
ISC-D118	DHI-ISC-D118	18-Zone Walk-Through Metal Detector
ISC-D118	DHI-ISC-D118E	18-Zone Walk-Through Metal Detector (RoHS Compliant)
Accessories	DHI-ISC-D1XX-U	UPS Module For ISC-DXX Series
	ISC-D1XX-Pallet	Use pallets when the device is moved by mechanical handling

Dimensions (mm[inch])

