

DHI-ISC-D106C

Walk-through Metal Detector



The walk-through metal detector adopts an electromagnetic field to detect carry-on metal articles, and uses sound and light alarms to indicate that the carry-on metal is more than a certain amount. It consists of a host, a high-frequency signal generator, a signal receiver, and an infrared sensor. As a leading metal detector in the market, it has superior functions such as graceful appearance, light weight, unmatched metal detection capability, 6 detection zones, unique Internet remote management system and more.

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 intuitive and user-friendly interface.

Functions

Zone Indication

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

Optimized IR Sensor

Infrared 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 Processor Based 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).

- 6 detection zones with corresponding indicator lights.
- 3.5 inch LCD with an interactive, user-friendly interface.
- Monitors and displays the real-time signal strength of environmental interference.
- Automatically sets 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.
- 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.
- Multiple IR detection modes.
- IR remote controller (Optional).
- Supports lead-acid batteries (Optional).

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 media.

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.

Self Diagnosis

Complete and automatic (manual self test is also supported).

Time Display

Displays the current time

Online Update

Online 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 check 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

Precise Positioning	6 overlapping mesh-like detection zones, bilateral transmission and receipt of detection signals; 2-panel indicator lights
Zone Indication	6 independent zones, and multiple metal items can be located simultaneously
IR Sensor	Infrared sensor with less false or missed alarms; automatic alarm statistics and pass/return statistics
Adjustable Sensitivity	255 adjustable sensitivity levels in each detection zone (sensitivity increases by levels)
Leakage Current	< 0.5 mA, complying with safety requirements for electronic devices

Regular

Operating Voltage	12 VDC, power adapter (included): 100–240 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 (78.9" x 28.3" x 15.5")
Overall Exterior Size	Bare: 2208 mm x 866 mm x 488 mm (86.93" x 34.09" x 19.21")
Packing Size	2271 mm x 695 mm x 215 mm (89.41" x 27.36" x 8.46")
Operating Temperature	-20 °C to +65 °C (-4 °F to +149 °F)
Operating Humidity	0%–90% (RH), non-condensing
Storage Temperature/Humidity	-20 °C to +65 °C (-4 °F to +149 °F)/0%–90% (RH), non-condensing
Power Button	Power switch on the front panel
Indicator Light	A row of green indicators
Environmental Noise	Monitors and displays real-time signal strength of environmental interferences
Installation	Vertical mounting

Certifications

Certifications	GB 15210-2018 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

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-D106C	DHI-ISC-D106C	6-Zone Walk-Through Metal Detector
Accessories	ISC-D1XX-Pallet	Use pallets when the device is moved by mechanical handling

Dimensions (mm[inch])

