

# DHI-ISC-D109L

## 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 detection door in the market, it has superior functions such as graceful appearance, light weight, unmatched metal detection capability, 9 detection zones, unique Internet remote management system and more.

### System Overview

The Device has high metal detection sensitivity, light weight, strong anti-interference capacity, and stable performance. It uses high-strength special materials which are lightweight and easy to transport and install. The Device has a modular design and is manufactured on unified assembly lines for good stability. Thanks to its intuitive interface and simple use, no operation training is required.

### Functions

#### Optimized IR Sensor

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

#### Counting Mode

One-way counting; in/out counting.

#### Digital Signal Processor Based Technology

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

#### Adjustable Sensitivity

The sensitivity of each detection zone can be adjusted as needed to meet different sensitivity requirements of different zones

#### Password Protection

Programming access and parameter configuration are protected by a five-digit password.

- 9 detection zones with corresponding indicator lights.
- 2 sets of 5-digit high-brightness red LED display.
- Super bright dual-row area indicator lights and independent interactive 9-zone function with 6 detectors.
- Counts pass number and alarm times respectively.
- Multi-zone simultaneous detection and alarm.
- Supports 99 programs, suit for different scenes.
- Global sensitivity adjustable from 0 to 399.
- Every zone sensitivity adjustable from 0 to 399.
- Automatically searches operating frequency (20 levels available).
- 99 Alarm tones selectable.
- Alarm volume adjustable (10 levels). mute mode available.
- 10 levels alarm sound duration selectable.
- Multiple start-stop modes for IR.
- Supports 5-digit password protection. not support administrator password.
- Supports device auto diagnosis.
- Supports network firmware upgrade.

### Electromagnetic Field Emission Technology

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

### Adjustable Sound and Volume

99 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 99 scenario modes, and automatically applies corresponding sensitivity.

### Self Diagnosis

Automatic diagnosis; output error code.

### Network Update

Network firmware update.

### Scene

The walk-through metal detector can be widely used in sports meetings, conferences, schools, and other occasions.

**Technical Specification**

Technical

Precise Positioning	9 overlapping mesh-like detection zones, bilateral transmission and receipt of detection signals; 1-panel indicator light
Zone Indication	9 independent zones selectable, and multiple metal items can be located simultaneously.
IR Sensor	Infrared sensor with fewer false or missed alarms; automatic alarm statistics and pass/return statistics.
Adjustable Sensitivity	400 adjustable sensitivity levels in each detection zone (sensitivity increases by levels).
Environmental Noise	Monitors and displays real-time signal strength of environmental interferences.

Regular

Operating Voltage	12 VDC, power adapter (included): 100 V–240 VAC, 50/60 Hz
Maximum Power Consumption	7.2 W
Typical Power Consumption	5.76 W
Gross Weight	28.5 kg (62.83 lb)
Net Weight	23 kg (50.71 lb)
Tunnel Size	2000 mm × 720 mm × 340 mm (78.74" × 28.35" × 13.39")
Exterior Size	Bare: 2208 mm × 824 mm × 340 mm (86.93" × 32.44" × 13.39")
Packaging Size	2265 mm × 425 mm × 220 mm (89.17" × 16.73" × 8.66")
Operating Temperature	–20 °C to 65 °C (–4 °F to 149 °F)
Operating Humidity	<95% (RH), non-condensing
Storage Temperature	–20 °C to +70 °C (–4 °F to 158 °F)
Storage Humidity	<95% (RH), non-condensing
Power Switch	On the front panel
Indicator Light	One green indicator
Installation	Ground mount

Ports

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

**Ordering Information**

Type	Model	Description
ISC-D109L	DHI-ISC-D109L	Walk-through Metal Detector

**Dimensions (mm[inch])**

