Dahua TECHNOLOGY

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 ant-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.
- Mult-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 super 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; 2-panel indicator lights
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])