DHI-ISC-D718R-T

Walk-through Metal Detector

Featured strong anti-interference and stable performance, the device stands out from the industry by its high superior precision, unmatched performance and high sensitivity. Its high-strength special materials make it convenient to transport and install. Meanwhile, its stability benefits from modular design and unified assembly line. It also delivers a simple and user-friendly interface for the user to operate without any training.

Introduction

The Walk-through Metal Detector integrates human body temperature monitoring, video surveillance, storage and traditional metal detector. It features personnel detection and comparison, video surveillance and other intelligent functions, as well as new features such as the linkage of metal/temperature alarm and personnel, report of alarm statistics analysis and personnel video playback. One device covers functions of multiple devices, which has proven its irreplaceable performance in reducing on-site construction, saving costs and more.

Functions

Adjustable Sensitivity
The sensitivity of each detection area can be manually adjusted to achieve different sensitivity requirements at different positions.

Alarm Prompt
Its sound and light alarms offer the clearest prompt, and the adjustable alarm duration meets the needs of different users.

Temperature Accuracy
±0.5 °C

Personnel Database
A huge personnel database with 300,000 pictures.

Query Function
Real-time information query of the passing people.

- 18 detection zones. Displays environmental interference, sound & light alarms and alarm zones in real time.
- 10,000-level adjustable sensitivity.
- Ultra-high sensitivity, Min. detect target: CNY ten-cent coin*. Ferro and non-ferro metal are both detectable.
- Supports 7,000 adjustable frequencies and auto frequency search.
- Dual 10.1" HD LCD displays video surveillance, snapshots and metal alarms.
- Video surveillance, built-in video storage and playback.
- Temperature monitoring. Sound&light alarm and snapshot for abnormal temperature.
- Up to 30,000 personnel database achieves quick personnel comparison and alarms.
- VIP mode allows the VIP to pass without a metal alarm.
- Blocklist personnel alarm.
- Counting passing number, pass/return numbers, and alarm number.
- Stores up to 2 million data that can be exported and information of passing, alarm and person.
- Multi-level user management for different administrators and operators.
- 2-channel alarm output.
- Local mouse operation, network web client, and managed by platform. Easy to operate.
* Nickel bonded steel, round, diameter 19 mm, thickness 1.67 mm, weight 3.20 g.

Password Protection
It supports mixed alphanumeric passwords and password strength policies.

Self-test System
POST (power on self-test) function.

Network Interconnection
Through the network, the parameters of the detector can be configured, and the pass number, alarm number and personnel information can be exported.

Detection Capability
Max. 60 persons/min.

Scene

Suitable for security screening in government buildings, exhibition centers, sports meetings, conferences, schools, railway stations, bus stations, subway rail transit and more.

Technical Specification

System

Display	2*10.1-inch LCD screen
People Counting Display	Displays pass number, metal alarms, temperature alarms, video, images of personnel detection and comparison, history data and body temperature.

Metal Detection

Detection Sensitivity	NILECJ-STD-0601.00 L1-L4
Precise Positioning	6/12/18 overlapping detection zones, bilateral transmission and receipt of detection signals; 4-panel indicator lights.
Zone Indication	6/12/18 Independent zones selectable, and multiple metal items can be located simultaneously.
IR Sensor	Supports the switching of multiple start-stop modes for two-pair of IR sensor. Infrared sensor can reduce false alarms; automatic alarm statistics and pass/return statistics
Adjustable Sensitivity	0-9,999 levels of sensitivity can be set for each zone. The higher the level, the higher the sensitivity.
Operating Frequency	Supports 7,000-level adjustable frequencies and auto frequency search.
POST(Power On Self-Test)	Power on self-test.
Alarm Tone	9 independent alarm tones selectable, and temperature alarm can be set independently.
Alarm Volume	9 independent alarm volumes selectable, and mute mode can be set.

Personnel Detection

Personnel Detection	12 persons/second (1,080P) for one channel, and 12 persons/second (1,080P) for two channels. Supports personnel identification without mask.
Personnel Attribute	Supports extraction of gender, age, glasses, mask and other attributes.
Intelligent Playback (Personnel Picture)	Query conditions: By pass channel, time and personnel attributes. Function: Supports the linkage of search results and playback of 10 seconds of video before and after the event, and search results export as excel, video and picture.

Personnel Identification

Personnel Database Management	1. Import method: single/batch import personnel pictures through the browser 2. Input personnel information: name, gender, birthday, province, city, certificate type, and certificate number. 3. Database capacity: Up to 10 personnel databases with 300,000 pictures can be created, and the total capacity is 30 G. 4. Image requirements: jpg format, maximum 256 KB for a single image, pixel is greater than 100×100.
Personnel Comparison	1. Comparison mode: Post-FD + Post-FR. 2. Intelligent performance: 8 pictures/second 3. Post intelligent function configuration: ordinary/stranger mode. It supports the deployment of multiple personnel databases, alarm warning, linkage video, capture, IPC external alarm output, voice prompt, buzzer, log recording and mail. 4. Post intelligent performance: 1-channel personnel comparison (1,080p video stream)
VIP Mode	Identifies the VIPs through personnel identification. Metal alarm function can be closed when the VIP passes and resumes after passing.

Behavior Analysis

General Behavior Analysis	Supports 1-channel general behavior analysis function, and can judge tripwire intrusion and area intrusion.

Video and Audio

Network Video Input	Up to 4-channel cameras
Resolution	3200W/2100W/1200W/800W/600W/500W/400W/300W/1080P/960p/720P/D1/CIF/QCIF
Video Bit Rate	32 kbps to 6,144 kbps
Audio Sampling Rate	8 kHz, 16 bit
Audio Bit Rate	64 kbps
Video Compression	Smart H.265; H.265; Smart H.264; H.264
Audio Compression	G.711a; G.711u; PCM; G.726
Stream Type	Video Stream and composite stream
Video Output	External 1 HDMI output, resolution: 1920×1080/1280×1024/1280×720
Window Split	1/4 window

Recording Playback

Record Mode	General, motion detection; intelligent; alarm; manual; scheduled
Multi-channel Playback	Up to 4 channels
Backup Method	USB device and network
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (personnel and motion detection)

Alarm

Metal Alarm	Supports the display of pass number, metal alarms and metal alarm zone, data query, as well as linkage video query and export.
Temperature Alarm	The sound and light alarm will be triggered and displayed clearly on the screen when the temperature reaches the threshold. The temperature alarm can be linked with personnel and metal alarm information; It also supports data query and export.
Mask Alarm	The sound and light alarm will be triggered if the passing person doesn't wear a mask.
General Alarm	Motion detection; privacy masking; local alarm
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception
Intelligent Alarm	Supports personnel detection and identification.
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email

Network

Network Protocol	HTTP; HTTPS; TCP/IP; Ipv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P; IPv6
Interoperability	ONVIF; SDK
Browser	IE11, google (Configuration only)

Certifications

Certifications	GB 15210-2018 IEC 60068-2-1 IEC 60068-2-2 CE-LVD: Low Voltage Directive 2014/35/EU CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU CE-RED: Radio Equipment Directive 2014/53/EU FCC: 47 CFR FCC Part 18, Subpart B
Safety	ICNIRP 2010 Guidelines ICNIRP 1998 Guidelines EC directive 2013/35/EU EC recommendation 1999/519/EC IEEE C95.1:2005

Port and Indicator

Power Button	Power Button Power switch on both door panels, and metal detection power switch on the front panel
Indicator Light	One green indicator
Environmental Interference	Monitors and displays real-time signal strength of environmental interferences
HDD Interface	2*SATA ports, Max 8T, an additional HDD is required.
Alarm Input/Output Port	2 alarm inputs, 2 alarm outputs, internal port
RS-485 Port	1 internal port
USB Port	2*USB 3.0, internal port
HDMI	1
Network Port	Detector underside network port RJ45 port, 10/100 Mbps, 1 for each side.
POE Port	4 internal ports, 3 available

General

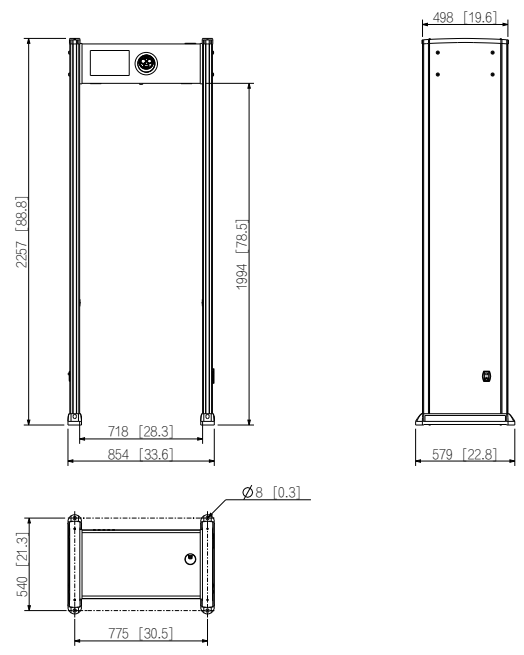|	
Tunnel Dimensions	1,990 mm × 720 mm × 580 mm (78.35" × 28.35" × 22.83") (H × W × D)
Product Dimensions	2,261 mm × 840 mm × 580 mm (89.02" × 33.07" × 22.83") (H × W × D)
Packaging Dimensions	Packing Box (Detector panel): 2,310 mm × 650 mm × 260 mm (90.94" × 25.59" × 10.24") (H × W × D) Packing Box (Host box): 863 mm × 554 mm × 439 mm (33.98" × 21.81" × 17.28") (H × W × D)
Net Weight	ISC-D718R-T: 18 kg (39.68 lb); ISC-D718R-D: 39 kg (85.98 lb)
Gross Weight	ISC-D718R-T: 25 kg (55.12lb); ISC-D718R-D: 45 kg (99.21 lb)
Power Supply	100–240 VAC; 50-60 Hz
Max. Power Consumption	50 W
Standby Power Consumption	34 W
Operating Temperature	−20 °C to 60 °C (−4 °F to 140 °F)
Working Humidity	<95% (RH), non-condensing
Storage Temperature	−20 °C to 65 °C (−4 °F to 149 °F)
Storage Humidity	<95% (RH), non-condensing
Installation	Ground mount

Camera Technical Specifications

Thermal

Detector Type	Vanadium Oxide Uncooled FPA
Max. Resolution	256 x 192
Pixel Pitch	12 µm
Spectral Range	8 µm–14 µm
Thermal Sensitivity (NETD)	≤50mK@f/1.0
Focal Length	3.5 mm
Field of View	H: 50.6°, V: 37.8°
Thermal Focus Mode	Athermalize
Close Focus Distance	0.5 m (1.64 ft)
Aperture	F1.0
Image Enhancement	Digital Detail Enhancement (DDE)
Digital Zoom	16 ×
AGC	Auto; manual
Noise Reduction	2D NR; 3D NR
Temperature Monitoring Range	30 °C to 45 °C (86 °F to 113 °F)
Temperature Monitoring Error	±0.5 °C
Body Temperature Monitoring	Yes

Visible

Image Sensor	1/2.7" CMOS
Max. Resolution	2,336 × 1,752
Pixel	4 MP
Horizontal Resolution	≥1,600 TVL
Min. Illumination	Color: 0.05 lux Black & white: 0.005lux 0Lux (IR on)
AGC	Auto; manual
Noise Reduction	2D NR; 3D NR
S/N Ratio	>55 dB
White Balance	Auto/Manual/Indoor/Outdoor/Tracking/Sodium lamp/Natural/Street lamp
Defog Function	Electronic Defog
Electronic Shutter	1 s-1/30,000 s (auto/manual adjustment)
BLC	Yes
WDR	DWDR
HLC	Yes
Day/Night	Auto (ICR); Color and B/W
IRIS Control	Auto; manual
Exposure Compensation	Yes

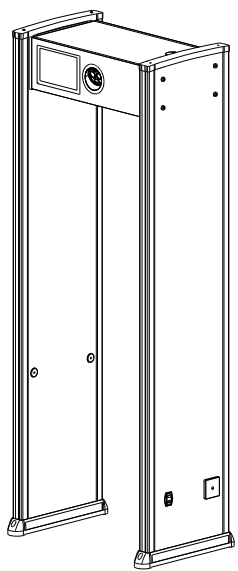| Focus Control	Manual
Focal Length	4 mm
Field of View	H: 71.2° V: 52° D: 92.6°
Close Focus Distance	1.0 m (3.28 ft)
Aperture	F1.6
Illuminator Type	IR
IR Illuminator On/Off Control	Auto; manual
Max illumination Distance	30 m (98.43 ft) (IR)
Illuminator Angle	100°/lamp

Ordering Information

Type	Model	Description
Walk-through Metal Detector	DHI-ISC-D718R-T	Host box
	DHI-ISC-D718R-D	Detector panel (2 included)
HDD	1 T HDD	Data storage, 3.5-inch SATA port

Installation

Dimensions (mm[inch])

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