

DH-ISC-D118-T

Walk-through Metal Detector



System Overview

The Temperature Monitoring walk-through metal detector is a high-performance and high-sensitivity security gate that can detect body temperature. It is lightweight and has high metal detection sensitivity, strong anti-interference capabilities and stable performance. With high-strength special materials, it is easy to transport and install. The device is manufactured on unified assembly lines, ensuring the good stability due to its modular design. It also delivers an simplicity and user-friendly interface.Together with Thermal and Visible Technology, the camera is the perfect solution for dark, small area monitoring applications. The series combines one thermal camera for monitoring in total darkness and one visible camera with Smart IR for confirming details.

Functions

Walk-through Metal Detector: Temperature Alarm

Non-contact monitoring face temperature accurately and triggers an alarm when the system detects a temperature out of defined threshold ranges.

Temperature Monitoring Accuracy

Without blackbody: ±0.5 °C With blackbody: ±0.3 °C Detection distance: 0.5 m to 2 m Target height: 1.2 m to 1.9 m

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.

Walk-through Metal Detector

- 18 detection zones with corresponding indicator lights
- Minimum detection 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)

Camera

- Uncooled VOx thermal sensor technology
- · Athermalized lens (thermal camera), focus-free
- 4-MP 1/2.7" progressive scan CMOS
- ROI, motion detection, color palettes
- Smoking and call behaviour detection
- Fire detection & alarm
- Built-in 1/1 alarm in/out
- Micro SD memory, IP67, PoE
- Smart linkage with strobe light & audio
- Dual image fusion (visible and thermal images)

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).

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.

Adjustable Sound and Volume

9 alarm tones with 10 adjustable volume levels, mute mode and alarm.

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.

Time Display Displays the current time.

Displays the current tir

Camera:

Uncooled VOx Technology

Dahua thermal cameras use uncooled VOx sensor technology. Because of small size and better performance, it is cost-effective solution for thermal security.

High Sensitivity

High thermal sensitivity (< 50 mK) makes cameras capture more image details and temperature difference information.

Fire Detection & Alarm

With built-in fire detect function, the camera has the ability to detect fire in a long distance. Thermal camera is sensitive to temperature, so the accuracy of fire detection will be higher than visible camera.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as motion detection. IVS also supports tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed.

Smoking Detection

Dahua thermal camera can provide a real-time monitoring, in the use of AI technology, to automatically detect people's smoking behavior and provide intelligent voice and light warning (loudspeaker and white light, etc.) in an effort to dissuade smoker, and avoid potential risk and loss.

Environmental

With a temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

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 18 overlapping detection zones, bilateral transmission Precise Positioning and receipt of detection signals; 2-panel indicator lights 6, 12, or 18 independent zones selectable, and multiple Zone Indication metal items can be located simultaneously Infrared sensor can reduce false alarms: automatic alarm **IR** Sensor statistics and pass/return statistics 255 adjustable sensitivity levels in each detection zone Adjustable Sensitivity (sensitivity increases by levels) Comes with a infrared remote controller with the **Remote Control** maximum remote control range of 2 m (6.56 ft) < 0.5 mA, complying with safety requirements for Leakage Current electronic devices Regular 12 VDC, power adapter (included): 100 V-240 VAC, **Operating Voltage** 50/60 Hz Maximum Power 20.6 W Consumption Typical Power 10.8 W Consumption Gross Weight 48 kg (105.82 lb) Net Weight 38.5 kg (84.87 lb) Passageway Interior Size 2003 mm x 720 mm x 393 mm (78.86" × 28.35" × 15.47") Bare: 2209 mm × 866 mm × 489 mm (87.0" × 34.1" × Overall Exterior Size 19.3") 2275 mm × 700 mm × 220 mm (89.57" × 27.56" × 8.66") Packing Size -20 °C to +65 °C (-4 °F to +149 °F) **Operating Temperature Operating Humidity** 0-95% (RH), non-condensing Storage Temperature/ -20 °C to +65 °C (-4 °F to +149 °F)/0-95% (RH), non-Humidity condensing Power switch on both door panels, and metal detection Power Button power switch on the front panel Indicator Light One green indicator Human Shape Display 18 detection zones Monitors and displays real-time signal strength of **Environmental Noise** environmental interferences Installation Vertical mounting Certifications GB 15210-2018 IEC 60068-2-1 IEC 60068-2-2 CE-LVD: Low Voltage Directive 2014/35/EU Certifications CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

CE-RED: Radio Equipment Directive 2014/53/EU FCC: 47 CFR FCC Part 18, Subpart B

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ISC-D1XX Series | DH-ISC-D118-T

Safety	ICNIRP 2010 Guidelines ICNIRP 1998 Guidelines EC directive 2013/35/EU EC recommendation 1999/519/EC	Aperture Field of View
	IEEE C95.1:2005	Focus Control
Ports		Close Focus Di
RS-485	1	Day/Night
Alarm In/Out	1-channel input, and 1-channel output	BLC
Network Port	1 RJ-45, 100 Mbps	WDR
Power Output	12 VDC	HLC
Camera Technical Specification		White Balance
Thermal		
Detector Type	Vanadium Oxide Uncooled FPA	AGC
Max. Resolution	256 × 192	Noise Reductio
Pixel Pitch	12 μm	S/N Ratio
Spectral Range	8 μm–14 μm	Region of Inter
Thermal Sensitivity (NETD)	< 50 mK (@f/1.0, 25Hz, 300K)	Image Flip
Focal Length	3.5 mm	Exposure Com
Field of View	H: 50.6°, V: 37.8°	Intelligence
Close Focus Distance	0.5 m (1.64 ft)	General Intellig
Effective Distance Human (1.8 m × 0.5 m)	D: 146 m (479 ft) R: 38 m (125 ft) I: 19 m (622 ft)	Advanced Inte
Effective Distance Vehicle (4.0 m × 1.4 m)	D: 389 m (1276 ft) R: 97 m (318 ft) I: 49 m (161 ft)	Video and <i>i</i>
Aperture	F1.0	Video Compre
Digital Detail Enhancement (DDE)	Yes	
Digital Zoom	16 ×	
AGC	Auto; manual	Resolution
Noise Reduction	2D NR; 3D NR	
Image Flip	90°; 180°; 270°	
Color Palettes	18 (Whitehot/Blackhot/Ironrow/Icefire/Fusion/Rainbow/ Globow/Iconbow1/Iconbow2, etc.)	
Visible		
Image Sensor	1/2.7" CMOS	Frame Rate
Max. Resolution	2336 × 1752	
Pixel	4 MP	
Electronic Shutter Speed	1/30000 s-1 s	
Min. Illumination	Color: 0.05 Lux Black & white: 0.005 Lux 0 Lux (IR on)	Audio Compre
IR Illumination Distance	≥ 30 m (98.43 ft)	Network
IR Illuminator On/Off Control	Auto; manual	Protocol
Focal Length	4 mm	Edge Storage

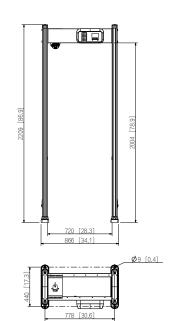
Aperture	F1.6
Field of View	H: 71.2° V: 52° D: 92.6°
Focus Control	Fixed
Close Focus Distance	1.0 m (3.28 ft)
Day/Night	Auto (ICR); Color and B/W
BLC	Yes
WDR	DWDR
HLC	Yes
White Balance	Auto/Manual/Indoor/Outdoor/Tracking/Street lamp/ Natural
AGC	Auto; manual
Noise Reduction	2D NR; 3D NR
5/N Ratio	≥ 55 dB
Region of Interest (RoI)	Yes
mage Flip	90°; 180°; 270°
Exposure Compensation	Yes
ntelligence	
General Intelligence	Tripwire; intrusion
Advanced Intelligence	Fire detection & alarm Cold & hot spot trace Human & vehicle classification Smoking detection Call detection
Video and Audio	
/ideo Compression	H.265/H.264M/H.264H/H.264B/MJEPG
Resolution	Thermal: Main Stream: 1280 × 960 (1.3M) /XVGA (1024 × 768) / VGA (640 × 480) /256 × 192, 1280 × 960 by default Sub Stream: VGA (640 × 480)/256 × 192, 256 × 192 by default Visual: Main Stream: 2336 × 1752/1080p (1920 × 1080) /720p (1280 × 720)/D1 (704 × 576), 2336 × 1752 by default Sub Stream: 720p (1280 × 720) /D1 (704 × 576) /CIF (352 × 288), 352 × 288 by default
Frame Rate	Thermal 50Hz: (main stream) 1 fps–25 fps adjustable, 25 fps by default; (sub stream) 1 fps–25 fps adjustable, 15 fps by default 60Hz: (main stream) 1 fps–30 fps adjustable, 30 fps by default; (sub stream) 1 fps–30 fps adjustable, 15 fps by default Visual 50Hz: (main stream) 1 fps–25 fps adjustable, 25 fps by default; (sub stream) 1 fps–25 fps adjustable, 15 fps by default 60Hz: (main stream) 1 fps–30 fps adjustable, 30 fps by default; (sub stream) 1 fps–30 fps adjustable, 15 fps by default; (sub stream) 1 fps–30 fps adjustable, 15 fps by default
Audio Compression	G.711a; G.711mu; PCM
Network	
Protocol	HTTPS; HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
Edge Storage	Micro SD card (256 G)

ISC-D1XX Series | DH-ISC-D118-T

Interoperability	ONVIF; CGI		
Browser	IE: IE8 and the later, and explorer with IE core Google: 42 and the earlier Firefox: 42 and the earlier		
User/Host	10		
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access		
Certification			
Certifications	CE: EN55032:2015; EN61000-3-2:2014 FCC:CFR 47 FCC Part15 subpart B; ANSI C63.4-2014		
Port			
Network	110 M/100 M Ethernet port (RJ-45)		
RS-485	1 pair		
Power			
Power Supply	12 VDC±20%/PoE		
Power Consumption	Basic: < 6.5 W (LED off) Max: < 13 W (LED on, heater on)		
Environment			
Operating Temperature	-30°C to +60°C (-22°F to +140°F)		
Storage Temperature	-30°C to +70°C (-22°F to +158°F)		
Operating Humidity	≤ 95%		
Protection	IP67, anti-surge 6kV, anti-elctrostatic 6kV (touched by objects), anti-elctrostatic 8KV (air)		
Structure			
Product Dimensions	122 mm × 122 mm × 112 mm (4.80" × 4.80" × 4.41")		
Packaging Dimensions	155 mm × 155 mm × 135 mm (6.10" × 6.10" × 5.31")		
Net Weight	≤ 0.85 kg (1.87 lb)		
Gross Weight	≤ 1 kg (2.20 lb)		

Ordering Information				
Туре	Model	Description		
ISC-D118-T	DHI-ISC-D118-T	Temperature Monitoring Walk-through Metal Detector		
ISC-D118-T	DHI-ISC-D118E-T	Temperature Monitoring Walk-through Metal Detector (RoHS Compliant)		
Accessories	DHI-ISC-D1XX-U	UPS Module For ISC-DXX Series		
Accessories	ISC-D1XX-Pallet	Use pallets when the device is moved by mechanical handling		

Dimensions (mm[inch])





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