DHI-ISC-D718-T
Temperature Monitoring Walk-through Metal Detector

The Temperature Monitoring walk-through metal detector is a high-performance and high-sensitivity security gate that can detect body temperature. The device has high metal detection sensitivity, lightweight, strong anti-interference, and stable performance. It uses high-strength special materials which is light-weighted and easy to transport and install. The Device has a modular design and is manufactured on the unified assembly lines, so it can ensure the good stability. It also has delivers intuitive interface and simple use, so no operation training is required to use it. Featuring dual lens, fixed camera, this series provides an all-in-one solution for capturing video surveillance for indoor and outdoor applications. 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.

System Overview

The Temperature Monitoring walk-through metal detector uses IR and electromagnetic field to detect body temperature and carry-on metal articles, and gives sound and light alarm to indicate that the body temperature or carry-on metal is beyond a certain threshold. It consists of a temperature monitoring camera, host, high-frequency signal generator, signal receiver, and infrared sensor, with a beautiful appearance, strong metal detection capability, 18 detection zones, a unique Internet remote management system, and light weight. It is currently a leading metal detection door in the market.

Walk-through Metal Detector
- Two sets of high-brightness red-green LEDs, super bright double-row area indicator lights and independent interactive 18-zone function with 12 detectors
- 7-inch full-color touch-screen LCD display
- Easy to install and use with modular design
- Safe use with low voltage design
- Stable running with anti-loose aviation power plug
- High-strength Fire retardant High-pressure Laminate(HPL) material
- Monitor and show background interference in real time
- Count the numbers of passes and alarms respectively
- Count the numbers of people with normal body temperature and abnormal body temperature alarm respectively
- Monitor and show body temperate in real time
- Trigger sound and light warning for body temperate alarm
- Ultra-high sensitivity
- 72 application scenarios and extra 16 customize scenarios
- Zone sensitivity adjustable from 0 to 255
- Security degree adjustable from 0 to 99
- 100 working frequencies selectable
- Alarm sound volume adjustable from 0 to 10; support mute mode
- 17 alarm sound types
- Multiple start-stop modes for IR
- Power-on self-test
- Remote monitoring and configuration through network

Camera
- Uncooled VOx thermal sensor technology
- Athermalized lens (thermal camera), focus-free
- 1/2.7" 4Megapixel progressive scan CMOS
- Support ROI, motion detection, color palettes
- Smoking and call behaviour detection
- Support 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)
## 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

### Start-stop Technology
The IR metal detector supports manual start-stop technology for longer service life.

### Sensitivity Adjustable
Adjusts the sensitivity for each detection zone as required.

### Alarm
Supports sound and light alarm for timely alert. The sound duration and volume is adjustable.

### Information Search
The system supports real-time information search.

### Password Protection
Supports multi-digit password protection.

### Self-test System
Supports manual and automatic self-test.

### Network Operation
Supports parameter configuration and report exportation through the web interface.

### Detection Capability
Detected 60 to 100 people per minute.

### Security Protection
The device uses a weak magnetic field and complies with electromagnetic radiation standards to ensure that it is harmless to pregnant women and does not interfere with cardiac pacemakers, floppy disks, photographic film, and videotapes.

### 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 predetermined 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.

**Protection**
Supporting ±20% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6kV lightning rating provides protection against the camera and its structure from the effects of lightning.

## Scene

The Temperature Monitoring walk-through metal detector can be widely used in train stations, bus stations, metros, government buildings, exhibition centers, sports meetings, conferences, schools and other occasions.
## Walk-through Metal Detector Technical Specification

### General
- **Overall Exterior Size**: 2210 mm × 928 mm × 572 mm (87.0" × 36.5" × 22.5")
- **Passageway Interior Size**: 1950 mm × 714 mm × 572 mm (76.8" × 28.1" × 22.5")
- **Packing Size**: 2409 mm × 868 mm × 304 mm (94.8" × 34.2" × 12.0")
- **Net Weight**: 45 kg (99.2 lb)
- **Gross Weight**: 52 kg (with camera)
- **Operating Voltage**: 12V, 100-240V AC Power adapter included in the package
- **Max Power Consumption**: 23W
- **Standby Power Consumption**: 10W
- **Operating Temperature**: –20°C to +65°C (–4°F to +149°F)
- **Operating Humidity**: 0%–95%
- **Storage Temperature**: –20°C to +70°C (–4°F to +158°F)
- **Storage Humidity**: 0–95% RH
- **Working Frequency**: 1–100 frequencies

### Ports
- **Bottom Panel Port**: Aviation power connector, 1 on each side
- **Bottom Panel Network Port**: RJ-45, 1 on each side

### Certification

### Camera Technical Specification
#### Thermal
- **Detector Type**: Vanadium Oxide Uncooled FPA
- **Max. Resolution**: 256 × 192
- **Pixel Pitch**: 12 μm
- **Spectral Range**: 8 μm–14 μm
- **Thermal Sensitivity (NETD)**: < 50 mK (@f/1.0, 25Hz, 300K)
- **Focal Length**: 3.5 mm
- **Field of View**: H: 50.6°, V: 37.8°
- **Close Focus Distance**: 0.5 m (1.64 ft)
- **Effective Distance Human (1.8 m × 0.5 m)**: D: 146 m (479 ft), R: 38 m (125 ft), I: 19 m (622 ft)
- **Effective Distance Vehicle (4.0 m × 1.4 m)**: D: 389 m (1276 ft), R: 97 m (318 ft), I: 49 m (161 ft)

#### Visible
- **Image Sensor**: 1/2.7” CMOS
- **Max. Resolution**: 2336 × 1752
- **Pixel**: 4MP
- **Electronic Shutter Speed**: 1/30000 s–1 s
- **Min. Illumination**: Color: 0.05 Lux, Black & white: 0.005 Lux, 0 Lux (IR on)
- **IR Illumination Distance**: ≥ 30 m (98.43 ft)
- **IR Illuminator On/Off Control**: Auto; manual
- **Focal Length**: 4 mm
- **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
- **S/N Ratio**: ≥ 55 dB
- **Region of Interest (RoI)**: Yes
- **Image Flip**: 90°; 180°; 270°
- **Exposure Compensation**: Yes

### Intelligence
#### General Intelligence
- **Tripwire; intrusion**

#### Advanced Intelligence
- **Fire detection & alarm**
- **Cold & hot spot trace**
- **Human & vehicle classification**
- **Smoking detection**
- **Call detection**
**Video and Audio**

| Video Compression | H.265/H.264M/H.264/H.264B/MJPEG |

### 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 |

### Audio Compression

| G.711a; G.711mu; PCM |

### Network

| Protocol | HTTPS; HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/IPv6; SNTP; QoS; UPnP; NTP |
| 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


### Port

| Network | 1 10M/100M Ethernet port (RJ-45) |
| RS-485 | 1 pair |

### Power

| Power Supply | 12V DC±20%/PoE |
| Power Consumption | Basic: < 6.5W (LED off) Max: < 13W (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) |