Walkthrough Metal Detector with Built-in Temperature Measurement

HIKVISION®

Improve Effectiveness, Reduce Risk

Metal Detectors are broadly used for added security, but most lack a temperature screening function. Handheld legacy temperature measurement devices require close contact and time-consuming one-by-one inspection.

Hikvision's Walkthrough Metal Detector uses highly accurate thermal technology to perform safe, contactless temperature measurement for employees, staff and visitors while scanning for prohibited items.

Hikvision's Temperature Measurement Walkthrough Metal Detector ISD-SMG318LT-D features:
- 18 independent zones
- LEDs on detector sides for enhanced detection of prohibited objects
- 7-Inch LCD touch screen to display real-time and historical temperature readings
- Display includes number of people scanned, abnormal temperature detected, and prohibited object detected

Metal Detector Alarm   **Temperature Detector Alarm**

Metal Alarm

Metal

Temperature higher than preset value

Abnormal temperature alarm

Our thermographic metal detector uses innovative technology for advanced screening of skin-surface temperature within one-second per person. And, it can provide this feature at a safe, contactless distance. The ISD-SMG318LT-D equipped with an Elevated Skin Temperature Thermographic turret camera is capable of reading human skin temperature at one-second per person at a distance of 0.5 to 1.5 m (1.6 to 5 ft). Built-in LEDs are on both metal detector sides, and an audible alert sounds when abnormal temperature is detected.

Suitable for a wide-range of applications, including:
- Hospitals
- Office Buildings & Commercial Space
- Manufacturing Facilities
- Hotels & Hospitality
- Educational Facilities & Campuses

Airports
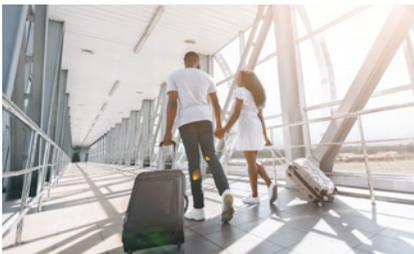
Hospitals

Schools

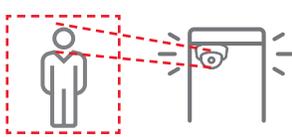**Shopping Malls**

Hotels

Commercial Buildings

Key Benefits of Thermographic Technology

Hikvision offers key advantages with its thermographic technology. Most solutions are limited and can only measure temperature in a small area and have no facial recognition capability. The graphic below compares Hikvision technology benefits with a typical competitor.

Hikvision	Other Solutions
Accurate Measurement & Tracking with Deep Learning Technology Resolution: 120x160	Detecting only in the fixed area Resolution: 32x32
Measurement distance: 0.5 to 1.5 m (1.6 to 5 ft)	Measurement distance: 0.3 to 0.5 m (0.98 to 1.6 ft)
1-second screening	5-second screening

Type	Hikvision Thermographic Technology	Other Solutions
Resolution	120x60	32x32
Measurement Distance	0.5 to 1.5 m (1.6 to 5 ft)	0.3 to 0.5 m (0.98 to 1.6 ft)
Measurement Scale	Large scale, any area within screen	Small, fixed area of the screen
Ease of Use	High	Low
Efficiency	1 second per person	5 seconds per person
Temperature Detection	Only detects temperature of forehead	Detecting only the highest temperature in the fixed area
Labor Cost	Low	High
Technology Overview	Thermographic: · Bigger measurement scale · Deep Learning · High accuracy & efficiency of temperature screen	Thermopile: · Limited measurement scale · Low accuracy & efficiency of temperature screen

# Temperature Measurement Walkthrough Metal Detector

Key benefits:

- Contactless Temperature Measurement
- Vanadium Oxide Uncooled Sensor Measures Human Skin-Surface Temperature
- Temperature Accuracy: ±0.5 Degrees Celsius (±0.9 Degrees Fahrenheit)
- Temperature Detection Distance: 0.5 to 1.5 m (1.6 to 5 ft)
- Temperature Measurement Height: 1.45 to 1.85 m (4.75 to 6.07 ft)
- Highly Accurate: Can detect objects as small as a paper clip
- Middle Detector Section Accuracy: Exclude items like belt buckles while identifying copper, aluminum, and zinc (over 0.15 kg), knives and guns.
- Indicates the Area of the Body Where Metal is Detected (18 Areas)
- Triggers LEDs and Voice Prompt when Abnormal Temperature Detected
- 7-inch LCD Touch Screen Indicates Temperature Reading History, Numbers of People Passed Through, Counts of Abnormal Temperature and Prohibited Items Detected
- Modularized Components for Easy Transportation and Installation
- Flow Control with HikCentral
- Easy Configuration with Web Interface

Specifications

Model		ISD-SMG318LT-D
Thermal Imaging	**Sensor**	Vanadium oxide uncooled sensor
	Max. Resolution	160 × 120
	Lens focal length	3 mm
	Field of View	50° × 37.2°
	Min. Focusing Distance	0.5 m
Visible Light	**Sensor**	4 MP 1/2.7" Progressive Scan CMOS
	Resolution	2688×1520 @ 25fps
	Min. illuminance	0.0018 lux @ f/1.6, AGC ON ,0 lux with IR
	Focal length	4 mm
	Field angle	84.0° × 44.8°
	Day/Night switch	ICR
	WDR range	120 dB
	IR range	Max. 15 m
Image Frame	**Thermal imaging and visible light**	Thermal imaging integrated with visible light frame
	Picture in picture	Supports visible light and thermal imaging frame overlay
	Smart information overlay	Supports (only temperature measurement rule and temperature are supported)
Smart Function	**Linkage alarm**	Linkage of strobe light and audible alarm
Temperature Measurement	**Temperature exception detection**	Expert mode: 10 points, 10 frame, 21 rules on each line
	Skin-surface temperature detection	Deep Learning Algorithm, multi-person detection
	Measurement range	30° C to 45° C (86° F to 113° F)
	Temperature Alarm	Alarm triggered when the temperature is over the threshold
	Temperature detection	No blackbody: ±0.5° C (±0.9° F). With blackbody: ±0.3° C (±0.5° F)
Storage	**SD card storage**	Micro SD/Micro SDHC/Micro SDXC card (128GB or 256GB)
	NVR storage	(96/86/77/76) I series NVR. Supports live view/playback, rule display, alarm report, and remote configuration
Interface	**Alarm input**	1, 0 to 5 V alarm input
	Alarm output	1, NO relay output, alarm type configurable
	Audio input	1, 3.5mm Mic in/Line in interface. Line input: 2-2.4V[p-p]
	Audio output	1, 600Ω
	Reset button	1
	Network interface	1, RJ45 10/100M self-adaption
	RS-485 interface	1
	SD card slot	1
	Client	iVMS-4200/HikCentral
	Browser	IE7+, Chrome18+, Firefox5.0+, Safari5.02+
General	**Power supply**	12 VDC, 3.15A, 36W (Power Adapter Included)
	Consumption	36W
	Operation temperature and humidity	Turret camera: 10° to 35° C (50° to 95° F), <95% RH Walkthrough detector: -10° to 55° C (14° to 131° F), 99%, RH
	Protective level	Turret camera: IP66 Walkthrough detector: IP53

Product Dimensions

430mm

2200mm

480mm

2200mm

720mm

850

2000mm

480mm

720mm

850
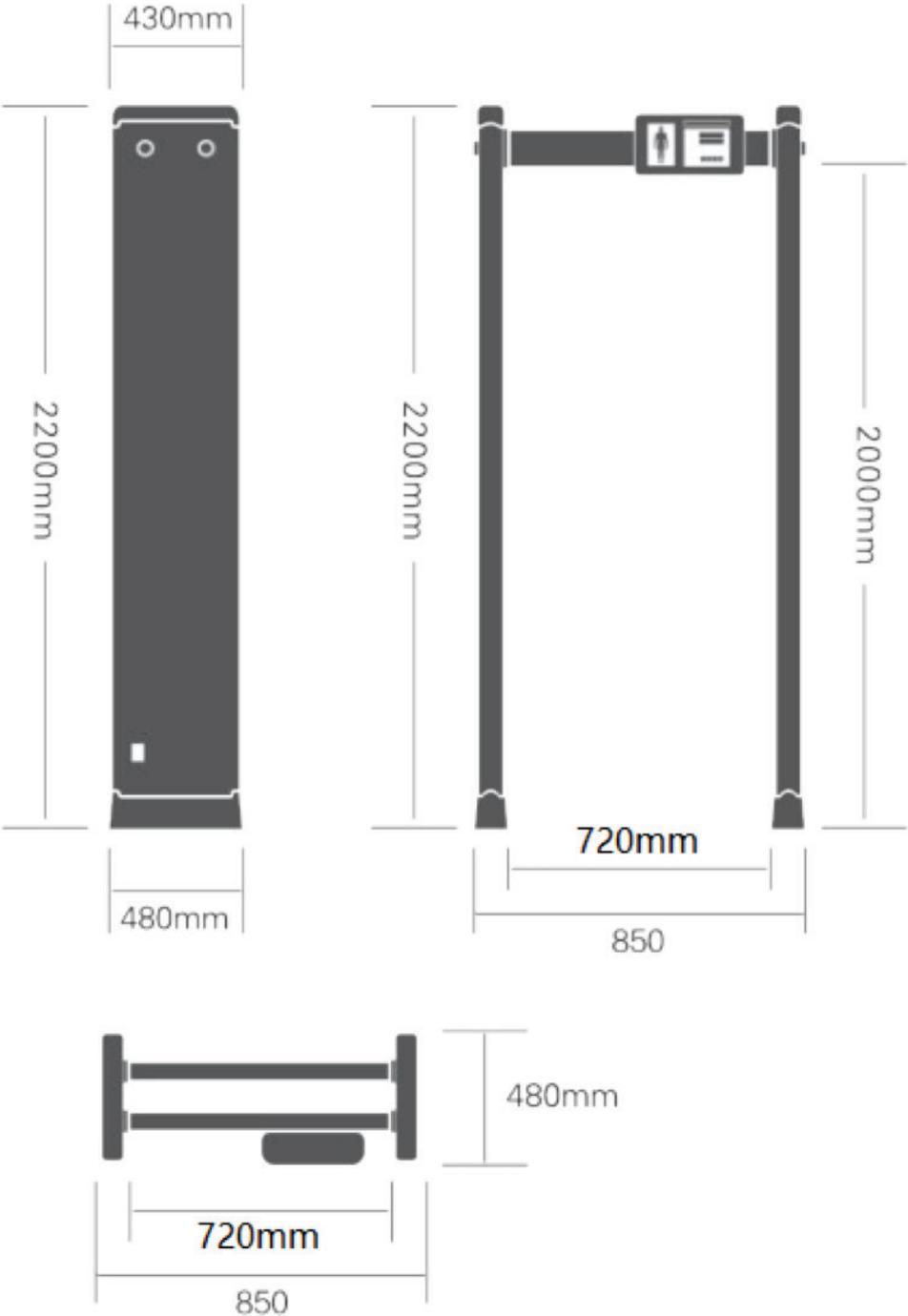
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Connect with us: 🐦 📘 in ▶ 📷

Disclaimer: Hikvision Highly Accurate Thermographic Cameras and Terminals (HAT Cameras and Terminals) are not FDA-cleared or approved thermal imaging devices intended to measure human skin-surface temperature. The HAT Cameras and Terminals are not intended for use in diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of disease, and shall not be solely or primarily used as an effective diagnostic device for COVID-19. Elevated body temperature should be confirmed with secondary evaluation methods (e.g., an NCIT or clinical grade contact thermometer). Users, through their experience with the Hikvision HAT Cameras and Terminals in the particular environment of use, should determine the significance of any fever or elevated temperature based on the skin telethermographic temperature measurement. Visible thermal patterns are only intended for locating the points from which to extract the thermal measurement.
To ensure the accuracy of the human skin-surface temperature measurement, the technology shall be used to measure only one subject's temperature at a time and shall not be used to measure multiple individuals' temperatures simultaneously.

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