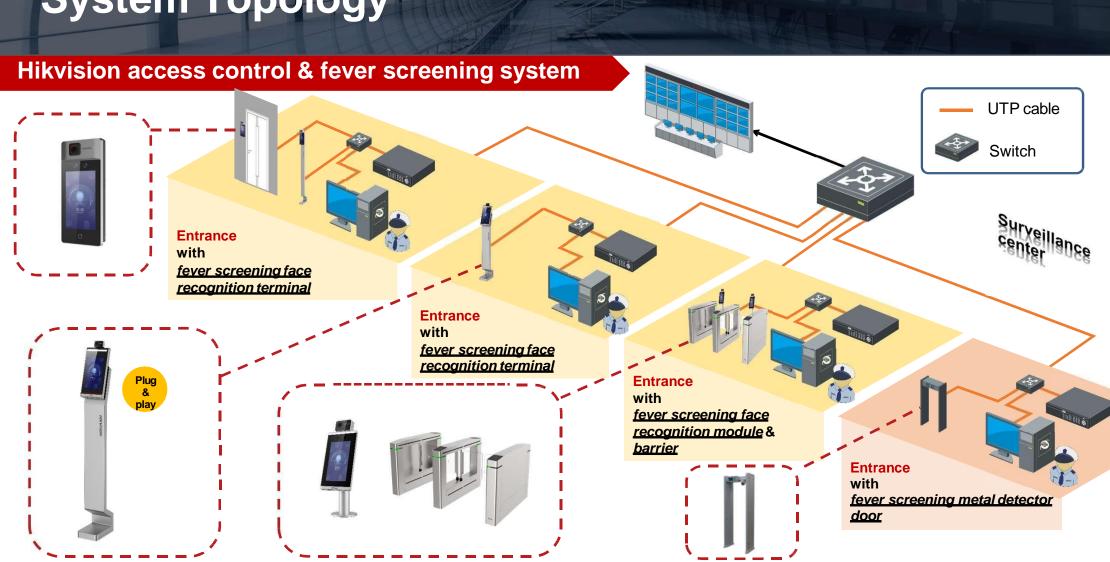


System Topology

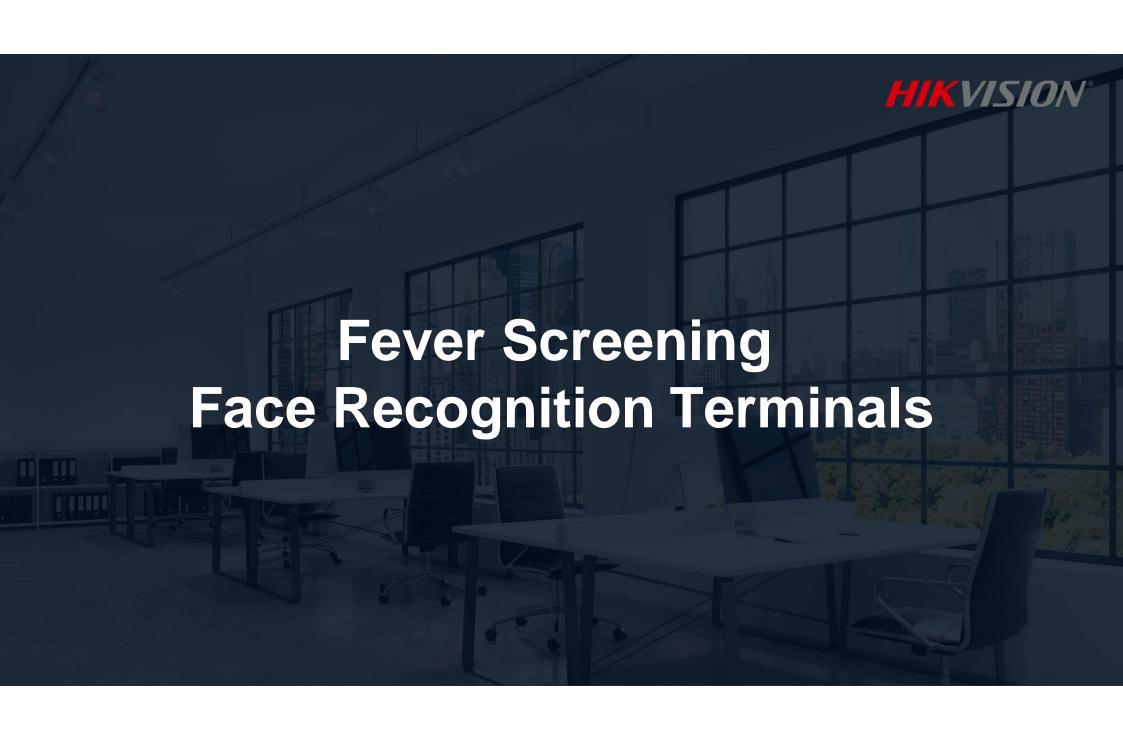






Contents

- > Fever screening face recognition terminals
- Fever screening metal detector door





Results display

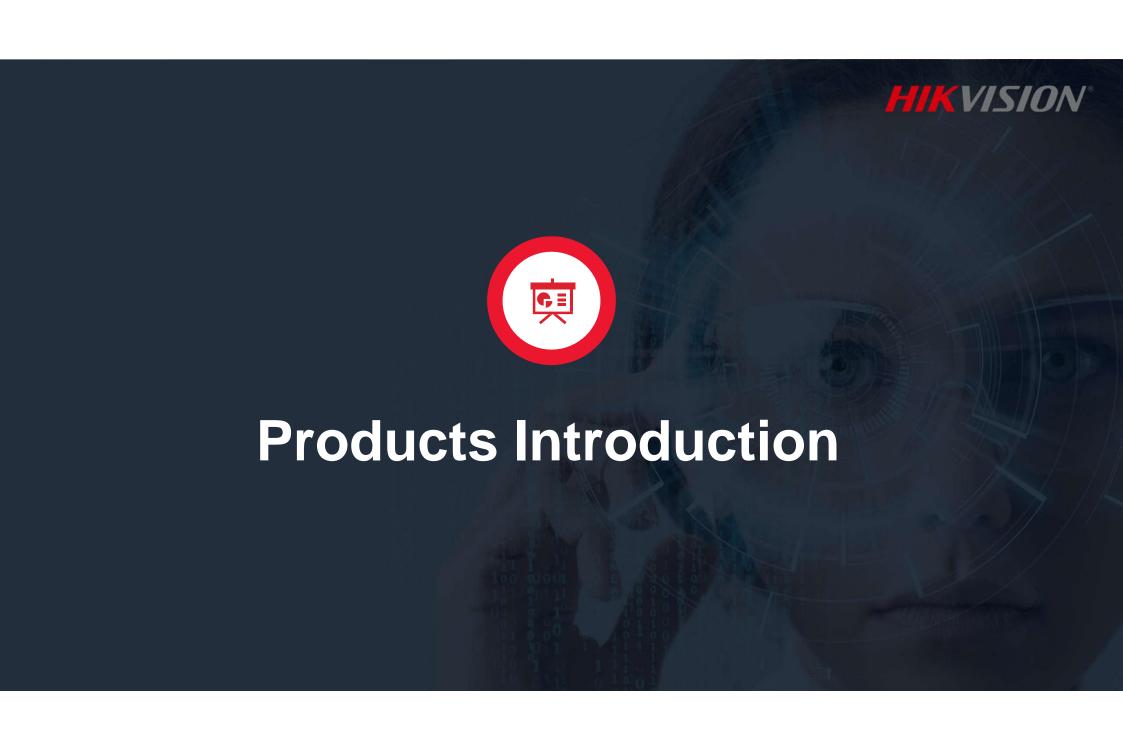








(*Above display images are only for reference)







Products Overview

	DS-K5604A-3XF/V	DS-K1T671TM-3XF	DS-K5671-3XF/ZU	
	Plug & play			
LCD screen	10.1 inch	7 inch	7 inch	
Face capacity	50,000	50,000	50,000	
Card capacity	N/A	50,000 M1 cards	N/A	
Thermal imaging resolution	120 x 160	120 x 160	120 x 160	
Temperature range and accuracy	30-45°C (±0.5 °C)	30-45°C (±0.5 °C)	30-45°C (±0.5°C)	
Authentication Distance	0.3-2m	0.3-2m	0.3-2m	
Mask detection	Support	Support	Support	
Fast temperature measurement	Support	Support	Support	
Deployment	Plug & play, floor standing Including power adaptor	Wall mounting/ floor standing with mounting pole	Face recognition module for barriers	





Fever screening face recognition terminal



Products Introduction - Highlights



Fever screening face recognition terminal

Flexible deployment

Supporting <u>wall mounting</u> and <u>floor standing with mounting pole</u>.



Various verification methods

Supporting <u>fast temperature measurement</u> and <u>face/card recognition with fever screening</u>.

Enhanced verification performance

Face recognition verification duration <u>less than 0.2s</u>.
Supporting <u>face anti-spoofing</u>.



Long term fever screen

Authentication distance: 0.3-2 m.

Mask detection

Supporting <u>face mask wearing alert</u> and forced mask wearing alert.



Dedicated for fever screening

Temperature range: <u>30°C to 45°C.</u> Temperature accuracy: <u>±0.5°C</u>.

Products Introduction - Highlights



Fever screening face recognition module for barriers



Fever screening face recognition module for barriers.



Various verification methods

Supporting <u>fast temperature measurement</u> and <u>face recognition with fever screening</u>.

Enhanced verification performance

Face recognition verification duration <u>less than 0.2s</u>.

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Long term fever screen

Authentication distance: 0.3-2 m.

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Supporting <u>face mask wearing alert</u> and <u>forced mask wearing alert</u>.



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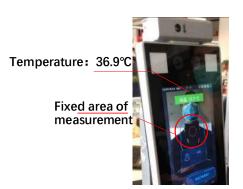
Temperature range: <u>30°C to 45°C.</u> Temperature accuracy: <u>±0.5°C</u>.



Products Introduction – Thermal Technology

Comparison between thermal imaging and thermopile technology

Thermopile technology





Temperature: 43.3°C

Fixed area of measurement

3-rd party thermopile solution

Summary:

Measuring the maximum temperature value in a fixed small area. After face authentication, the maximum temperature value of the fixed area is obtained for display.

Since the thermopile itself cannot detect faces, it cannot ensure that face temperature is measured, or whether it is the authenticated person.



Thermal imaging technology



Hikvision thermal imaging

Summary:

Generating hot try by measuring the temperature of all the objects in the measuring scale, detecting faces by Al algorithm, and extracting the temperature of forehead.

The thermal module matches the forehead temperature and face to ensure the authenticity and validity of temperature measurement.



Products Introduction – Thermal Technology

Comparison between thermal imaging and thermopile technology

Type	Thermopile	Thermal imaging	Comments
Resolution	32X32	120X160	
Measurement distance	0.3m~0.5m	0.3m~2m(depends on focus of device)	
Measurement scale	Small, fixed area of the screen	Large scale, any area within the screen	
Adaptability	Asking for high adaptability of personnel	No need deliberate cooperating, except for entering the screen	Thermopile:
Efficiency	5 s/person	1 s/person	Limited measurement scale,Low accuracy and efficiency of fever
Measurement and face matching	Temperature measurement can not be matched accurately, authenticity and validity of temperature measurement are limited.	Face detection and face forehead temperature accurately match, "one face, one temperature", temperature measurement data is true and effective.	Thermal imaging: • Bigger measurement scale,
Measurement error	Temperature measurement area is limited, the measurement subject can not be guaranteed, the temperature will be any part of the person or other objects within the screen.	Face detection tracking, guaranteed that the measurement is the temperature of the person's forehead, and the true body temperature is similar.	 Al algorithm for face detection, High accuracy and efficiency of fever screen.
Labor cost	The temperature measurement process requires the management personnel to participate in the whole guide, the labor cost is high.	Temperature measurement process requires little involvement of managers, and labor cost is low.	

Products Introduction - Terminal



Device Model	SAP Code	Description	Picture
DS-K5604A-3XF/V	302917211	 Plug &play 10.1-inch LCD touch screen,2 Mega pixel wide-angle lens Max.50,000 faces capacity Temperature range: 30-45°C, accuracy: ±0.5°C; Supports 6 attendance status, including check in, check out, break in, break out, overtime in, overtime out Face Recognition Duration(1:N) ≤0.2s Authentication Distance: 0.3m ~ 2m 	Hot

Products Introduction - Terminal



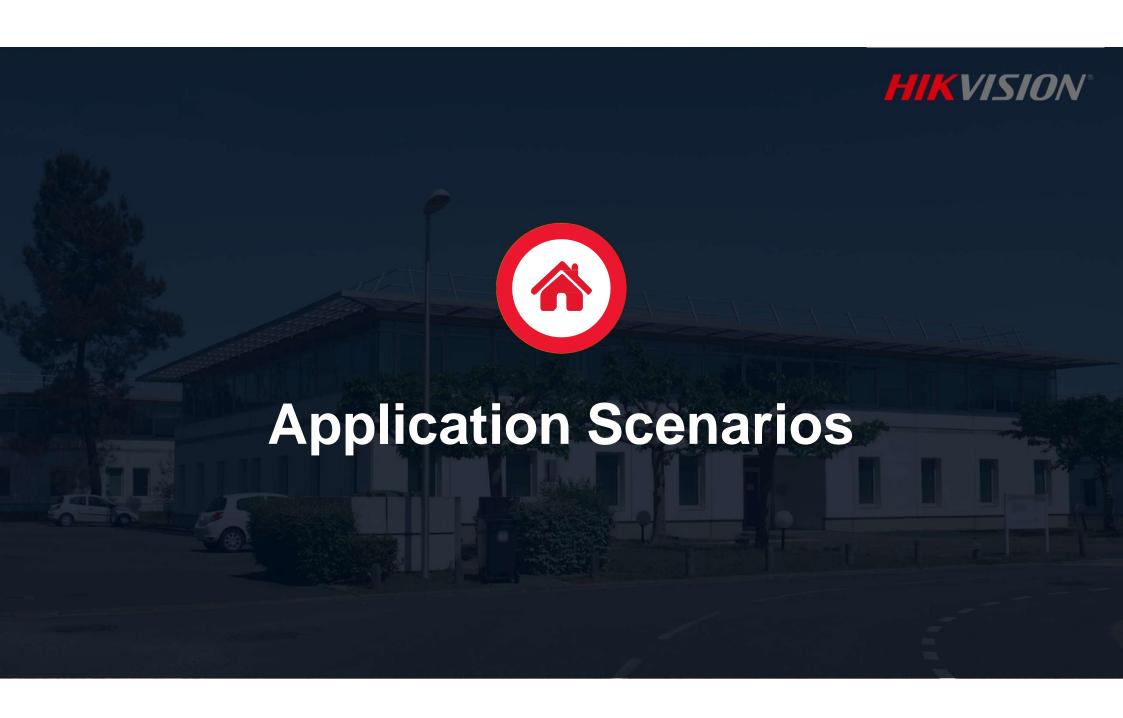
Device Model	SAP Code	Description	Picture
DS-K1T671TM-3XF	302917210	 7-inch LCD touch screen,2 Mega pixel wide-anglelens Built-in Mifare card reading module; Max.50,000 faces capacity, Max.50,000 cards; Temperature range: 30-45°C, accuracy: ±0.5°C; Supports 6 attendance status, including check in, check out, break in, break out, overtime in, overtime out Face Recognition Duration(1:N) ≤0.2s Authentication Distance: 0.3m ~ 2m 	3 3
DS-KAB671-B (Optional)	305700583	 The mounting pole for DS-K1T671TM-3XF Material: SPCC Weight: 6.7 kg (14.8 lb.) Dimension (W × H × D): 98.5 mm × 1342 mm × 225 mm (3.9" × 52.8" × 8.9") 	



Products Introduction – Module for Barriers

Device Model	SAP Code	Description	Picture
DS-K5671-3XF/ZU	302917213	 7-inch LCD touch screen,2 Mega pixel wide-anglelens Max.50,000 faces capacity; Temperature range: 30-45°C, accuracy: ±0.5°C; Supports 6 attendance status, including check in, check out, break in, break out, overtime in, overtime out Face Recognition Duration(1:N) ≤0.2s Authentication Distance: 0.3m ~ 2m 	
DS-K3B601 series DS-K3B801 series DS-K3Y501 series	Please refer to price list	Hikvision baseline barriers.	

(*The actual throughput is affected by the person passing rate and passing method)



Application Scenarios

HIKVISION

Entrance of factories



Entrance of schools



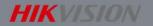


Entrance of offices

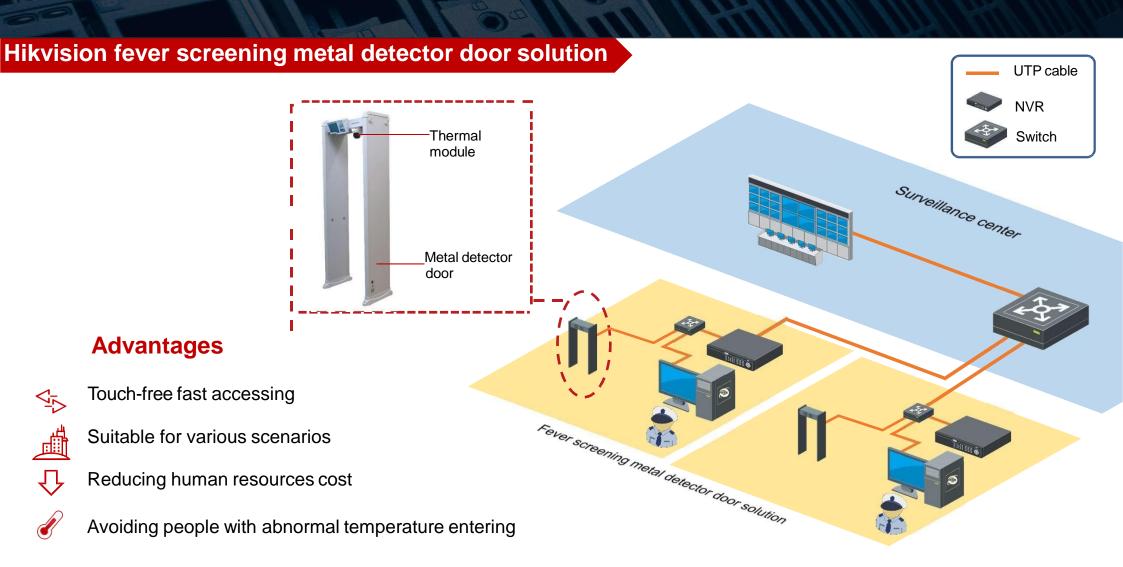


Entrance of retails

Note: Indoor installation is recommended for accuracy of temperature measurement (without wind).

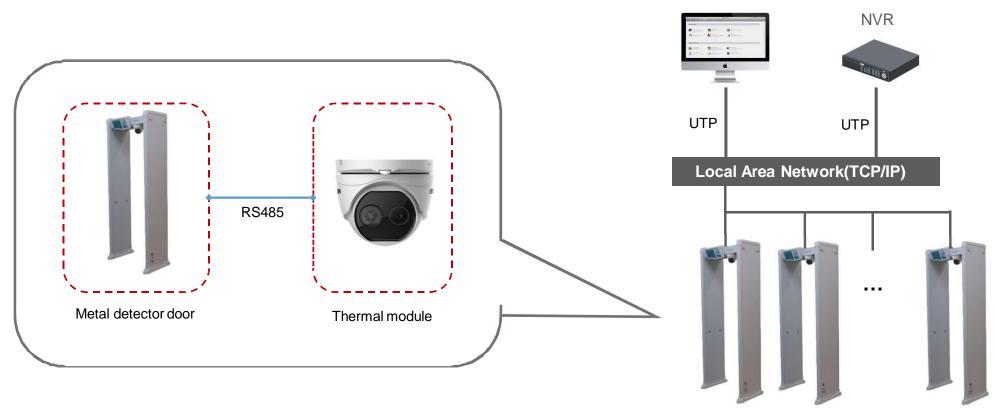


Fever Screening Metal Detector Door Solution





Solution topology diagram

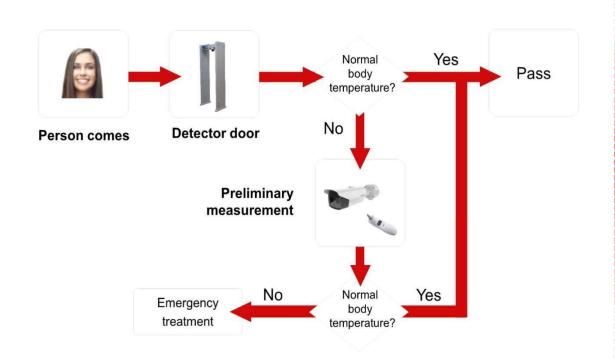


Fever screening metal detector door solution

Management Center



Working flow & results display







Solution advantages

Touch-free, fast fever screening

- Hygiene touchless fever screen
- Convenient information displayed on LCD
- Long distance verification & measurement

High adaptability

- Suitable for various indoor scenarios
- Easy installation & configuration

High security

- Fever screening avoiding people with abnormal temperature entering
- Metal detecting indicating location of metal

Centralized management

 Combining temperature data and people counting statistics for easy management and query



Solution ordering notes

Fever screening metal detector door



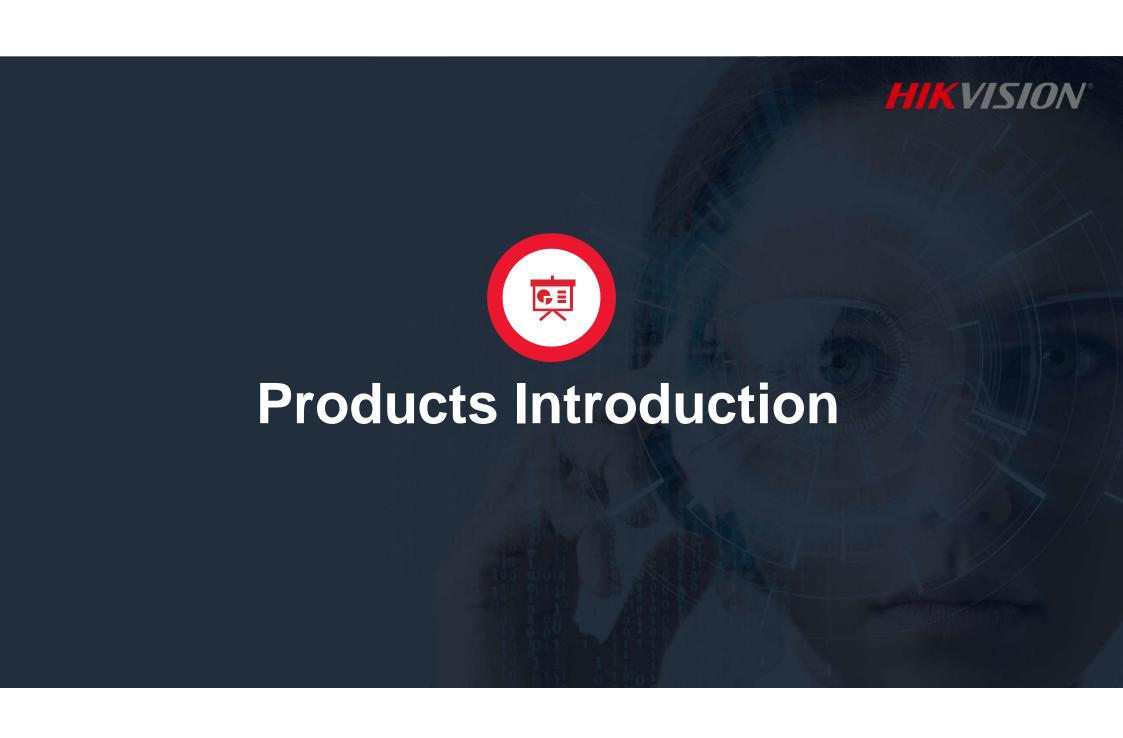
- ➤ Model name: ISD-SMG318LT-F
- Metal detector door and thermal camera all-in-one

Thermal camera

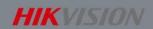


➤ Model name: DS-2TD1217B-3/PA(B)

*(SAP code can be checked in 'ProductIntroduction – Brief Datasheet Part or price list)



Products Introduction - Highlights



Fever screening metal detector door



Products Introduction - Highlights



Body temperature measurement camera



160 × 120 resolution in thermal channel.



Enhanced image quality

Provide <u>3D Digital Noise Reduction</u> to guarantee enhanced details of image.



DS-2TD1217B-3/PA(B)



Dedicated for fever screening

Temperature range: 30°C to 45°C.



High accuracy

Temperature accuracy: <u>: **±0.5** °**C**.</u>

Comprehensive alarm function
Strobe light and audio alarm supported.







Comparison between metal detection alarm and temperature alarm

Metal Detection Alarm



Temperature Detection Alarm







Products Introduction – Thermal Technology

Comparison between thermal imaging and thermopile technology

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Products Introduction – Bidding Feature

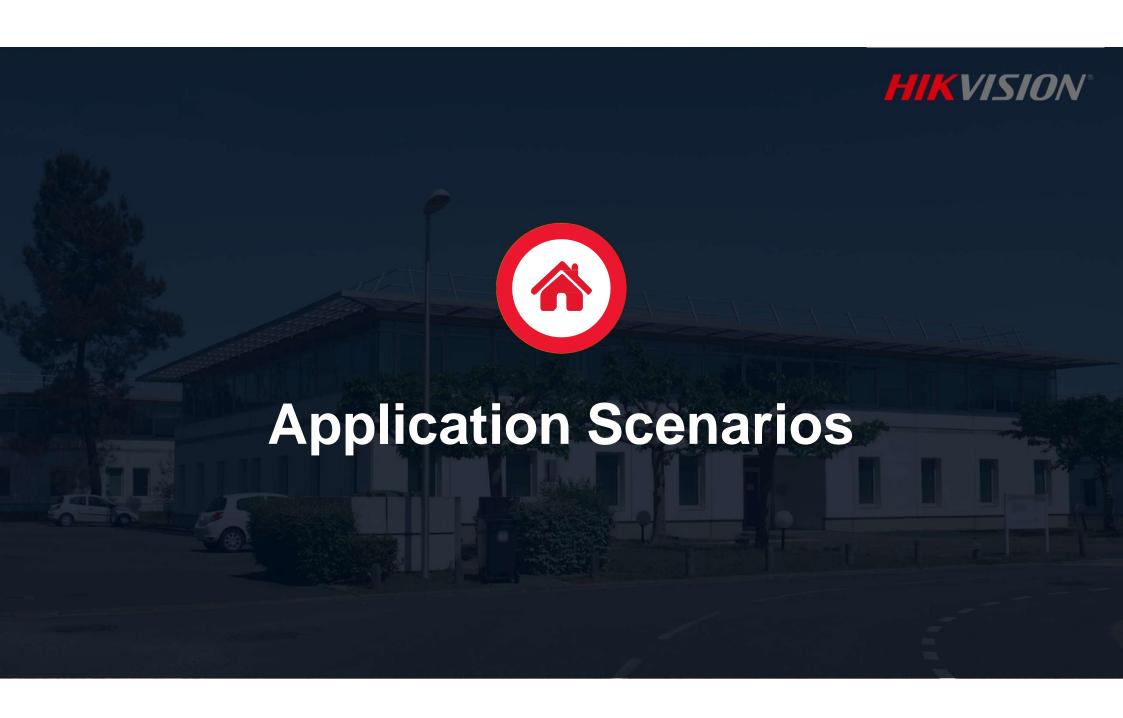
Items	ISD-SMG318LT-F
Thermal imaging max. resolution	160 x 120
Thermal imaging Lens(Focal Length)	3mm
Visible Light Sensor	4MP 1/2.7" Progressive Scan CMOS
Visible Light Focal Length	4mm
Visible Light WDR	120dB
Measurement range	30°C to 45°C
Measurement accuracy	No black body: ±0.5°C With black body: ±0.3°C
Measurement distance	0.3 m to 3 m
Multi-area alarm	Indicates the metal position on the body. Max. 18 areas
LCD screen	7-inch touch screen
Protective level	Dome camera: IP66 Walk-through detector: IP53

Note: Indoor installation is recommended for accuracy of temperature measurement(without wind).

Products Introduction - Brief Datasheet HIKVISION



Device Model	SAP Code	Description	Picture
ISD-SMG318LT-F	Standard: 322100028	 18 independent detection zones; LCD screen; Thermal imaging resolution: 160*120 Temperature measurement accuracy: ±0.5°C Temperature measurement range: 30-45°C Video mode: Bi-spectrum image fusion; In accordance with the international safety standard, friendly to pregnant woman, people with cardiac pacemaker, etc. 	
DS-2TD1217B-3/PA(B)	Standard: 305401146 Neutral: 305401150	 Thermal: 160 ×120; Lens: 3mm; Optical: 2688 ×1520; Optical lens: 4mm; Video mode: Bi-spectrum image fusion; Accuracy: ±0.5°C; Range: 30-45°C; Audio alarm support. 	



Application Scenarios

HIKVISION

Entrance of airports



Entrance of schools





Entrance of hospitals



Entrance of shopping malls

Note: Indoor installation is recommended for accuracy of temperature measurement(without wind).



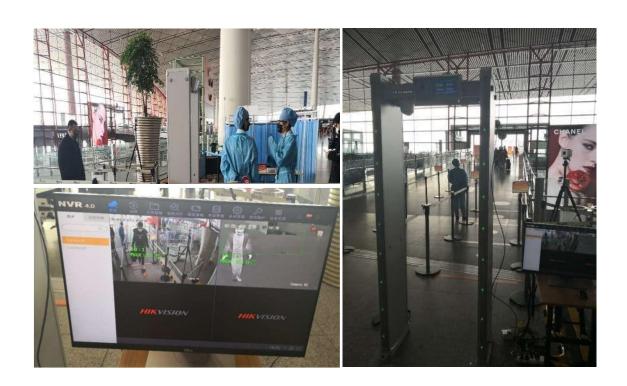


Case Study

Case Study

HIKVISION

Projects in airports and shopping malls





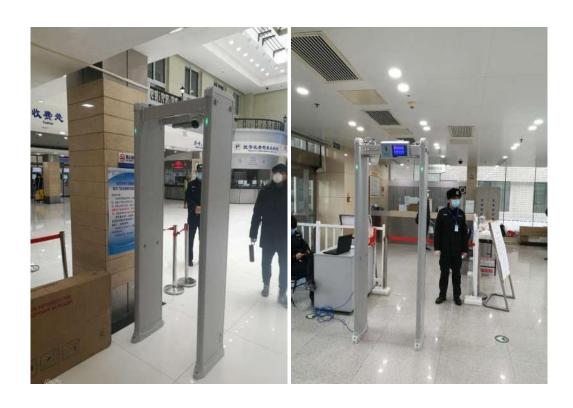
Beijing capital international airport project, Beijing

West lake Yintai shopping mall project, Hangzhou

Case Study

HIKVISION

Projects in hospitals and universities



Peking university people's hospital project, Beijing



Fudan University project, Shanghai



APAQ had the honor of being awarded the title

HIKVISION MALAYSIA AUTHORIZED PROJECT PARTNER 2019-2020







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 Security inspection equipment (Security gates, X-RAY luggage detectors, Vehicle inspection scanning, Access control systems), Drones (aircraft, UAV defense systems), Robots, Video surveillance security equipment, Indoor and outdoor large LED screens, conference screens, etc.

For more detail please contact:

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WhatsApp: +6012 665 5139

Thanks

