

Current Situation

Traditional methods like using the ear thermometer or mercury thermometer perform well in detecting people with abnormal skin-surface temperature. However, all of these methods have obvious and significant deficiencies:

Close Contact, High Risk

Close contact among users, leading to high risk of infection.



High Cost, Low Efficiency

- · Lots of manpower invested.
- Person-by-person inspection is inefficient.



Difficult to Collect Statistics

 Manual registration is required, which may lead to human error and not so timely feedback.



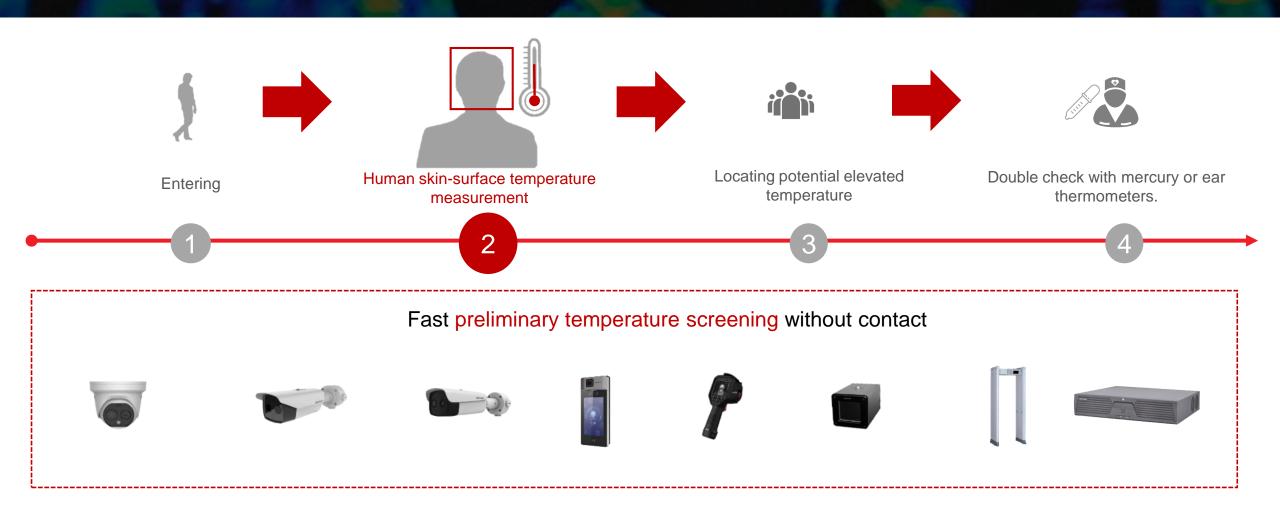
Solution Value

Using machines instead of manpower alone is a much better choice in many aspects.

- Reducing the contact among people. The detection process can be fast and convenient, as imperceptible as possible, and can minimize the impact on people's daily travel.
- Effectively reducing manpower and the duration of skin-surface temperature measurement.
- Producing real-time and accurate temperature measurement data for management and decision-making.



Solution Business Flow





Distant and accurate check without physical contact, reducing cross-infection possibilities.



FFICIENT

Automatic alarm triggering, reducing manpower invested.



DAPTABLE

Multiple product types, easy to deploy, and suitable for different scenarios.



RACEABLE

Combining temperature, image and face identification for easy management and query.

Solution Overview

Solution 1

Temperature Screening with Fast Deployment



- ✓ Entrances with short-term requirements
- ✓ Unsuitable for complicated wiring and installation



1-1 Thermographic Cameras

Visualized Bi-spectrum Live View



- With Thermographic Camera
- Blackbody is **optional**



1-2 Wireless Devices

Easy Connection, Cable Free



■ With Handheld Thermographic Camera





1-3 Metal Detector Doors

Real-time Sound and Light Alarm



With Metal Detector Door

Solution Overview

Solution 2 Temperature Screening with Access Control



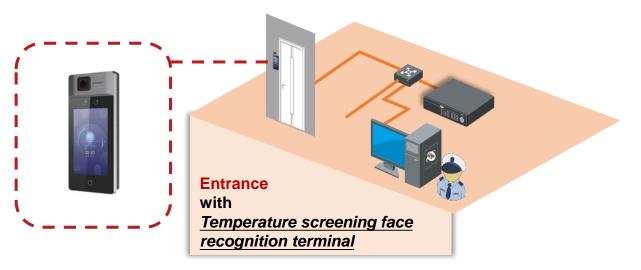
- Indoor space without wind
- Security control and Temperature screening at the entrance which has a route to guide people flow







- With Door Control
- Wall-mount to control the door



Solution 3 Group Temperature Screening



- Indoor open space without wind
- Large people flow
- Temperature screening on crowds





High-risk Group Screening with High Efficiency



- With Thermographic Bullet Camera
- Blackbody is optional

Solution Overview

Solution 4

Temperature Screening on Patrol



- ✓ Indoor open space without wind
- ✓ Patrolling without a fixed route



Anytime, Anywhere, Just one click.



■ With Handheld Thermographic Camera

Solution 5

Temperature Screening & Mask Detection



- ✓ Indoor open space without wind
- ✓ Face recognition with mask on



Intuitive Demonstration



With Thermographic Camera & DeepinMind NVR

Temperature Screening with Fast Deployment – Thermographic Cameras

Visualized Bi-spectrum Live View

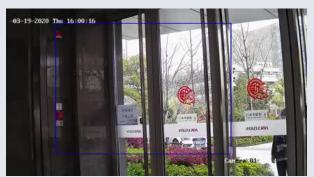
Solution Introduction

(optional)

- Indoor space without wind
- · Route for passenger flow is recommended
- 5 minutes' stay after entrance is recommended
- Use the Black Body calibrator to improve the accuracy to ±0.3°C



screening Camera







Thermographic Bullet Camera



Thermographic Turret Camera



Tripod Adaptor





Black body (optional)





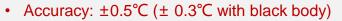
PoE Switch



Laptop

Product Design





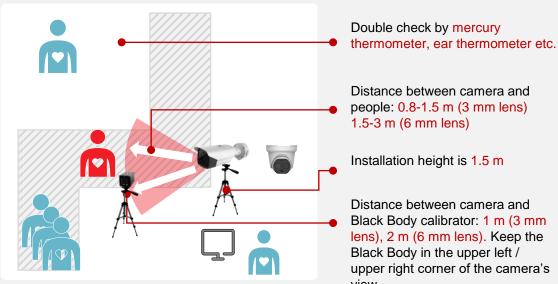
 Measurement range: 30-45°C Working temperature: 10-35°C

 Embedded audio alarm for abnormal temperatures

 Al detection to reduce false alarms by other heat resources



Cost-effective Series



Distance between camera and people: 0.8-1.5 m (3 mm lens)

Installation height is 1.5 m

Distance between camera and Black Body calibrator: 1 m (3 mm lens), 2 m (6 mm lens). Keep the Black Body in the upper left / upper right corner of the camera's view

Temperature Screening with Fast Deployment - Wireless Devices

Easy Connection, Cable Free

Solution Introduction



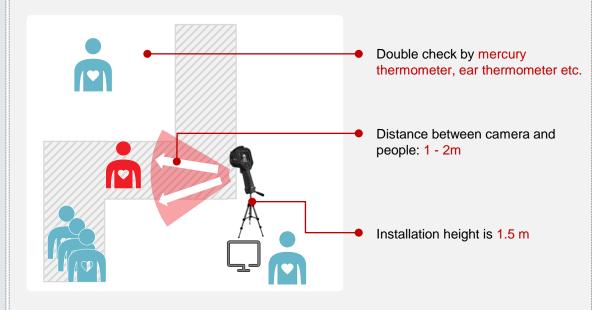
- For building entrances, elevator halls, airport security checks, etc.
- Wireless deployment without cables (by the app or the iVMS-4200 client)
- Indoor space without wind
- Route for passenger flow is recommended
- 5 minutes' stay after entrance is recommended





Product Design

- Thermal resolution: 160 × 120;
- Optical resolution: 640 × 480;
- Accuracy: ±0.5°C
- Measurement range: 30-45°C
- 3.5" LCD touch screen
- Supports Wi-Fi hotspot, live view on PC or mobile client for less eye fatigue
- Supports real-time audio alarm and automatic uploading of screen captures

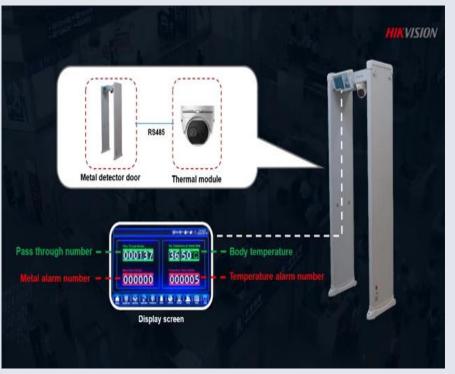


Temperature Screening with Fast Deployment – Metal Detector Doors

Real-time Sound and Light Alarm

Solution Introduction

- Long-term Temperature screening with metal detector door for entrances of police station, subway station, airport security check, etc.
- Indoor space without wind.
- Thermographic turret camera fixed on walk-through metal detector door.

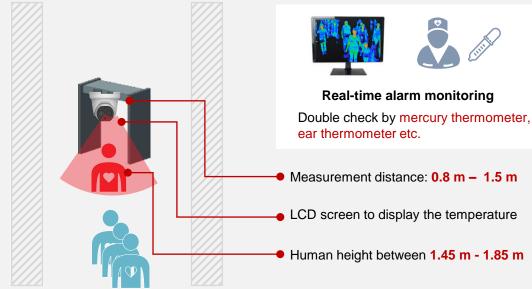




Product Design



- · 18 independent detection zones,
- 7-inch LCD temperature indicator
- 2,200 mm * 850 mm * 480 mm
- Thermal imaging resolution: 160 * 120
- Temperature measurement accuracy: ±0.5 ℃
- Temperature measurement range: 30-45 ℃
- Onboard audio alarm for abnormal temperature or metal.



School



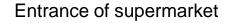
Entrance of college building



Entrance of dormitory

Retail







Entrance of restaurant

Office Building



Elevator hall of parking lot



Entrance of office building

Airport



Security Check at Airport



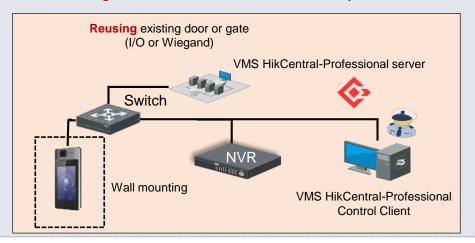
Entrance of terminal

Temperature Screening with Access Control

Touch-Free, Access is Easier but Safer

Solution Introduction

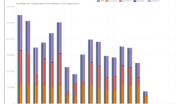
- Long-term Temperature screening with access control for building related projects
- Indoor space
- Centralized management for access control with temperature records



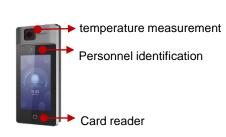
VMS Centralized management for access control system support:



- Exportable access records with temperature statistics
- ② Handling real-time Temperature alarms and tracing back records
- 3 Centralized management for multiple screening sites



				Batch.	Access Verification Log			
Basic Information								
Export Time: 2020/02/	10 15:01:28							
Exported by: admin								
Export Content: Name	, ID, Card Nun	nber, Person Grou	p, Device Time, A	ccess Point, Access Res	sult, Access Mode, Body Tem	perature		
Report Time: 2019/10/	/22 00:00:00 -	2019/10/22 23:59	9:59					
Total Number: 86								
Name	ID	Card Number	Person Group	Device Time	Access Point	Access Result	Access Mode	Body Teperatu
John Johnson	34564352	1232134341	Sales	2019/10/22 20:37:41	605Door 01_Cardreader 01	Succeed	Face Recognition	36.5℃
Black Griffin	34234913	2332123343	Sales	2019/10/22 19:56:34	605Door 01_Cardreader 01	Failed	Face Recognition Failed	36.3℃
Tim Duncan	89218471	2439278394	Sales	2019/10/22 19:53:22	605Door 01_Cardreader 01	Failed	Temperature higher than threshold	37.7℃
Roger Federer	21231234	2456457545	Manager	2019/10/22 18:36:43	605Door 01_Cardreader 01	Succeed	Face Recognition	36.7℃







Double check by mercury thermometer, ear thermometer etc.

Product Design

- Al face locating, avoiding interference by objects with high temperature, thus increasing the precision of Temperature screening.
- Contact-free: Personnel identification, Temperature screening, and mask detection (card reader for DS-K1T671TM-3XF)
- Masked-face recognition is supported.
- Voice reminder of not-wearing masks, and no-mask entrance is prohibited.
- · Max.50,000 faces capacity
- Temperature accuracy ±0.5°C, range: 30~45°C



Note: The NVR and HikCentral are both customized in this solution.



Entrance of offices



Entrance of office building



Entrance of Factory

Protect the safety of employees

Group Temperature Screening

High-risk Group Screening with High Efficiency

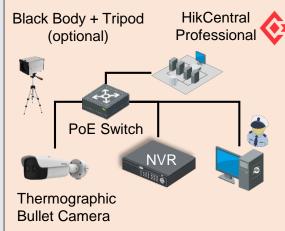
Solution Introduction

- Temperature screening of crowd with high efficiency (indoor), simultaneous
 Temperature screening of multiple people
- The Black Body calibrator is only used to improve the accuracy to ±0.3°C
- Centralized management for CCTV with temperature record













Wall Mounted Bracket



PoE switch





Product Design

Thermal: 384 × 288, lens: 15 mm

Optical: 2688 × 1520, lens: 6 mm

Accuracy: ±0.5°C (without blackbody)

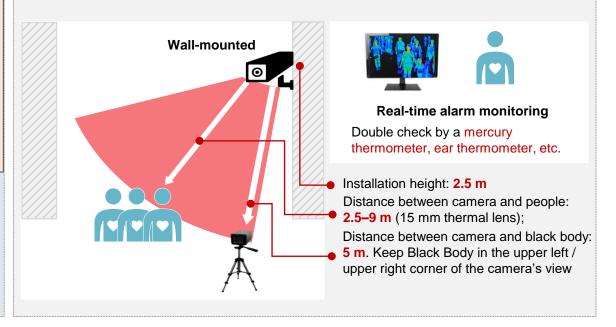
Measurement range: 30-45°C

Working temperature: 10-35°C

Al detection to reduce false alarms



Professional Bullet



Note: The NVR and HikCentral are both customized in this solution.



Railway Station



Airport



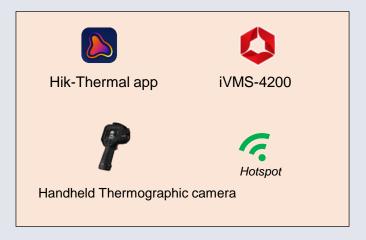
Factory

Temperature Screening on Patrol

Anytime, Anywhere. Just One Click

Solution Introduction

- For preliminary Temperature screening by spotchecking inspectors (indoor)
- · Temperature screening without disturbing a persor



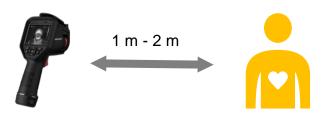




Product Design

- Thermal resolution: 160 × 120;
- Optical resolution: 640 × 480;
- Accuracy: ±0.5°C
- Measurement range: 30-45°C
- 3.5" LCD touch screen
- Supports Wi-Fi hotspot, automatic screenshots of a person with Temperature & uploading to the Mobile Client (Hik-Thermal) as evidence
- Supports real-time audio alarm
- Operation time: 4-5 hours





If abnormal



Double check









Workshop

Office

Classroom

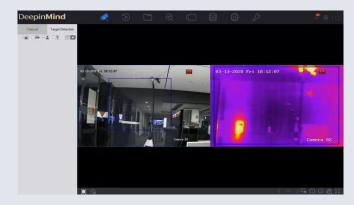
Efficient & Flexible for anywhere

Temperature Screening & Mask Detection

Intuitive Demonstration

Solution Introduction

- Temperature Screening: Simultaneous Temperature screening for multiple persons (indoor), contact-free
- Mask Detection: Detecting whether people wear masks, and timely giving alarms on people without masks
- Identity Verification & Stranger Alarm: Confirming identity, even with mask, and giving alarms on strangers







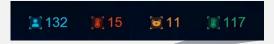




Thermographic Camera

DeepinMind NVR

Product Design



 Number of People: total number, abnormal temperature, no mask, normal temperature





- Temperature Status
- Facial Recognition Results
- Mask Detection

> Visualized GUI & Voice Broadcast:

- Special interface in DeepinMind NVR, visually displaying all kinds of information
- Supporting voice broadcast upon mask and temperature status

> Efficient Search & Report:

- Fast video search of target people, such as people with abnormal temperatures, without masks and so on;
- Exporting reports with ID, skin-surface temperature and mask status

Note: The DeepinMind NVR and thermographic cameras are customized in this solution.



College



Office Building



Industry Park

Product Showcase

Thermographic bullet camera

• Thermal: 160 × 120

• Lens: 3 mm / 6 mm

Optical: 2688 × 1520

• Optical lens: 4 mm / 8 mm

• Video mode: Bi-spectrum image fusion

• Accuracy: ±0.5°C (± 0.3°C with black body)

Measurement range: 30-45°C

Supports audio alarms



• Thermal: 160 × 120

Lens: 3 mm / 6 mm

Optical: 2688 × 1520

· Optical lens: 4 mm / 8 mm

• Video mode: Bi-spectrum image fusion

• Accuracy: $\pm 0.5^{\circ}$ C ($\pm 0.3^{\circ}$ C with black body)

Measurement range: 30-45°C

Supports audio alarms

Black body Calibrator

Temperature resolution: 0.1°C

Accuracy: ±0.1°C

• Temperature stability: ±0.1°C/h

• Effective emissivity: 0.97±0.02

Operating temperature: 0-30°C



Thermographic bullet camera (Pro)

Thermal: 384 × 288, lens: 15 mm
 Optical: 2688 × 1520, lens: 6mm

Accuracy: ±0.5°C (± 0.3°C with black body)

Measurement range: 30-45°C
Working temperature: 10-35°C

Al human detection, false alarms reduction

• Simultaneous Temperature screening for multiple people (Up to 30 people)



Handheld thermographic camera

Thermal resolution: 160 × 120

Optical resolution: 640 × 480

Measurement range: 30-45°C

Touch screen

Accuracy: ±0.5°C

Bi-spectrum image fusion

Supports Wi-Fi

Supports audio alarms

Automatic screenshots & uploading



Product Showcase

Temperature screening face recognition terminal

- Face identification, Temperature screening, mask detection
- Voice reminder of not-wearing masks, and no-mask entrance is prohibited
- Face capacity: 50,000
- Temperature accuracy: ±0.5°C, range: 30~45°C
- Face Recognition Duration(1:N) ≤0.2s
- Face Recognition Distance: 0.3m ~ 2m



Metal detector door

- 18 independent detection zones, LCD screen
- Thermal camera resolution: 160 x 120
- Temperature range: 30~45°C
- Temperature accuracy: ±0.5°C



DeepinMind NVR

• 16 channels of picture or 8 channels video streaming; 32-library capacity with up to 100,000 face pictures in total.



4HDD Series



8HDD Series

POE switch

 L2, Unmanaged, 10/100M RJ45 PoE ports, 1 10/100M RJ45 uplink port, 802.3af/at, PoE power budget. 300m long distance transmission, 6KV surge protection





4 Ports POE switch

8 Ports POE switch

 1080P, HDMI/VGA input, plastic casing, VESA, base bracket included, 7*24h



DS-D5019QE-B DS-D5032QE

(18.5")

(31.5")

 1080P, HDMI/VGA input, build-in speaker, plastic casing, VESA, base bracket included, 7*24h





DS-D5028FC DS-D5050UC (28") (50")

Product Showcase

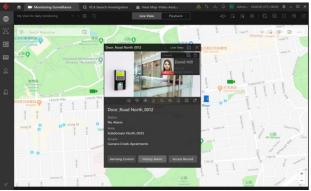


HikCentral Professional

- Flexible, scalable, reliable and powerful central surveillance system.
- Supports live view, play back, access control, alarm management, personnel identification, temperature data storage, abnormal temperature trend analysis etc.

Management of Registered Identities





Personnel Access Management & Skintemperature Measurement

- HikCentral links personnel skin-temperature and corresponding identity;
- Access status and temperature live display / recording on HikCentral;
- Administrators can grant the access remotely

Abnormal Status Management

- Detected abnormal temperature from multiple sites will be centralized into HikCentral and displayed on GIS map / E-map;
- Batch attendance handling of people in quarantine

Management of Unregistered Identities

Abnormal Status Registration

- Once abnormal temperature appears, inspectors can type in the identity information and register it to HikCentral;
- All registrations are traceable, and can be easily searched and exported;
- Visualized statistic report helps administrators to assign and adjust manpower;

