HIKVISION®

Hikvision Thermal
Temperature screening
Solutions

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SOLUTIONS

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Why use thermographic Temperature screening System

Increasing Demand on Temperature Screening System

High efficiency

- Multiple targets
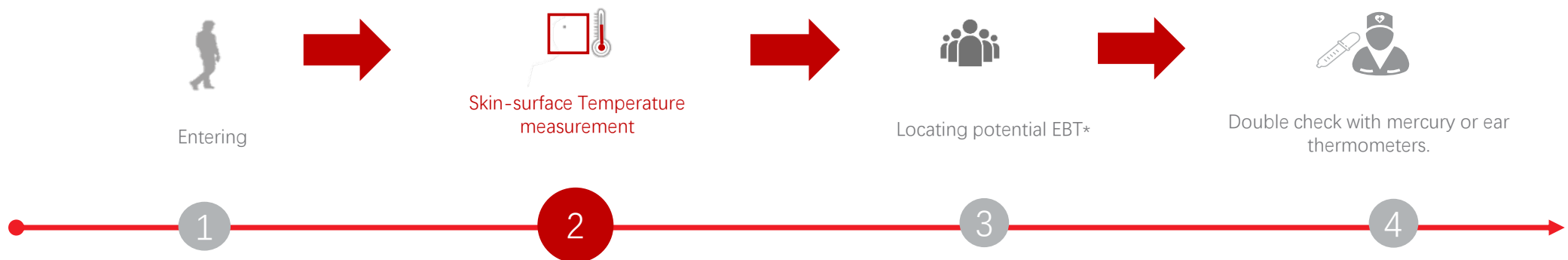- Less man power

Low risk

- Non-contact
- Rapid response

Data archiving

- Contact history tracing
- Data analysis

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Solutions Overview

Entering

Skin-surface Temperature measurement

Locating potential EBT*

Double check with mercury or ear thermometers.

1

2

3

4

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Solutions Overview

Solution 1 — Temperature Screening with Rapid Deployment

- Entrances with short-term requirements
- Avoid complicated wiring and installation

1-1 Temperature Screening & Security Surveillance

Visualized Bi-spectrum Live View

With Thermographic Camera

1-2 Wireless Temperature Screening

Easy Connection, Cable-free

With Handheld Thermographic Camera

Solution 2 — Temperature Screening on Patrol

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

Anytime, anywhere. Just one click.

With Handheld Thermographic Camera
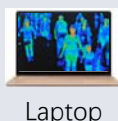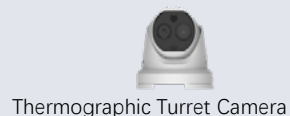
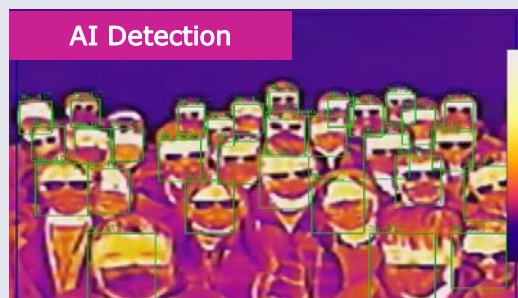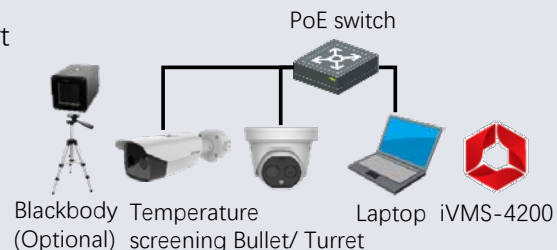## Solution 3 — Group Temperature Screening

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Solution Introduction

- For building entrances, elevator foyers, airport security checks, etc.
- Indoor space without wind
- Route for passenger flow is recommended

PoE switch

Blackbody (Optional) Temperature screening Bullet/ Turret Laptop iVMS-4200

03-19-2020 Thu 16:00:16

Camera 01

AI Detection

Thermographic Bullet Camera

Thermographic Turret Camera

Tripod Adaptor

Tripod

Black body (optional)

iVMS-4200

PoE Switch

Laptop

2020/4/7

Hikvision Oceania

5

Product Design

- Thermal: 160 × 120, lens: 3 mm / 6 mm
- Optical: 2688 × 1520, lens: 4 mm / 8 mm
- Accuracy: ±0.5C° (± 0.3C° with black body)
- Measurement range: 30-45C°
- Working Temperature : 10-35C°
- Embedded audio alarm for abnormal Temperature s
- AI detection reducing false alarms by other heat resources
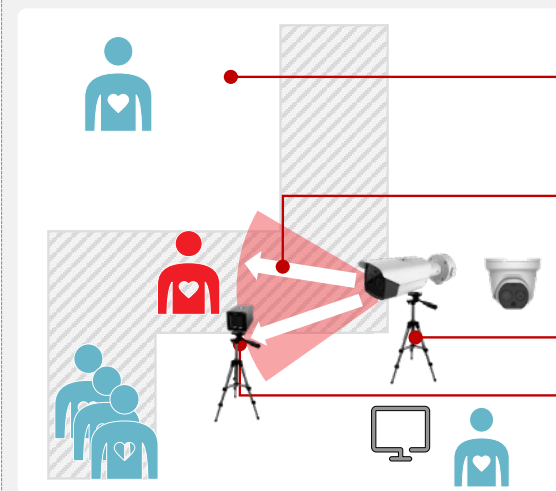
DS-2TD1217B-3/6 PA
DS-2TD2617B-3/6 PA

Double check by mercury thermometer, ear thermometer etc.

Distance between camera and people: 0.8-1.5 m (3 mm lens) 1.5-3 m (6 mm lens)

Installation height is 1.5 m

Where black body Temperature reference unit is used, the distance between camera and black body is 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

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Solution Introduction

- For building entrances, elevator foyer, 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

Tripod

Handheld thermographic camera
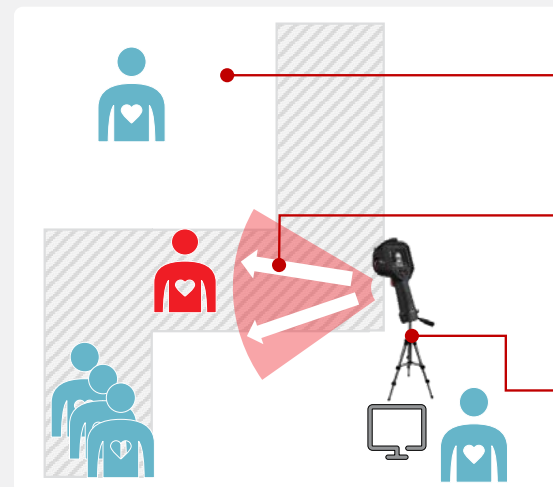
Hik-Thermal app   Laptop   iVMS-4200

Hotspot

Handheld thermographic camera

Product Design

- Thermal resolution: 160 × 120 ;
- Accuracy: ±0.5C°
- Measurement range: 30-45C°
- 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

DS-2TP21B-6AVF/W

Double check by mercury thermometer, ear thermometer etc.

Distance between camera and people: 1 - 2m

Installation height is 1.5 m

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What is black body?

Blackbody is a standard heat source, the thermographic cameras are able to calibrate based on the Temperature of a blackbody calibrator.

Is black body a must for thermal Temperature measurement?

With advanced technology improving the accuracy of Temperature reading, Hikvision thermal camera could achieve ±0.5C° accuracy without blackbody calibration, enough for most scenarios. Meanwhile save the cost on blackbody and time to setup/calibrate the blackbody.

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Solution Introduction

- For preliminary Temperature screening by spot-checking inspectors (indoor)
- Temperature screening without disturbing a person

Hik-Thermal app   iVMS-4200

Handheld Thermographic camera   Hotspot

Cen:22.0 Max:36.1   Auto   36.1   19.5   2020-03-06 14:07:35   ε :0.98

Cen:23.8 Max:36.2   Auto   36.2   19.5   2020-03-06 14:07:28   ε :0.98

Product Design

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

DS-2TP21B-6AVF/W

1 m - 2 m   If abnormal   38.5 °C   Double check

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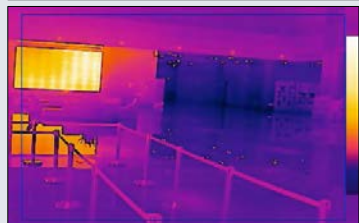www.carecomsolutions.com.au

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 (up to 30 people)，especially in airport，railway station
- The Black Body calibrator is used to improve the accuracy to ±0.3C°
- Centralized management for CCTV with Temperature record

AI Detection

Black Body + Tripod (optional)

HikCentral Professional

PoE Switch

NVR

Thermographic Bullet Camera

Thermographic Bullet Camera

Wall Mounted Bracket

PoE switch

HikCentral Professional

Black Body + Tripod (optional)
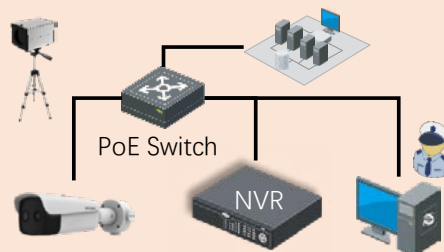
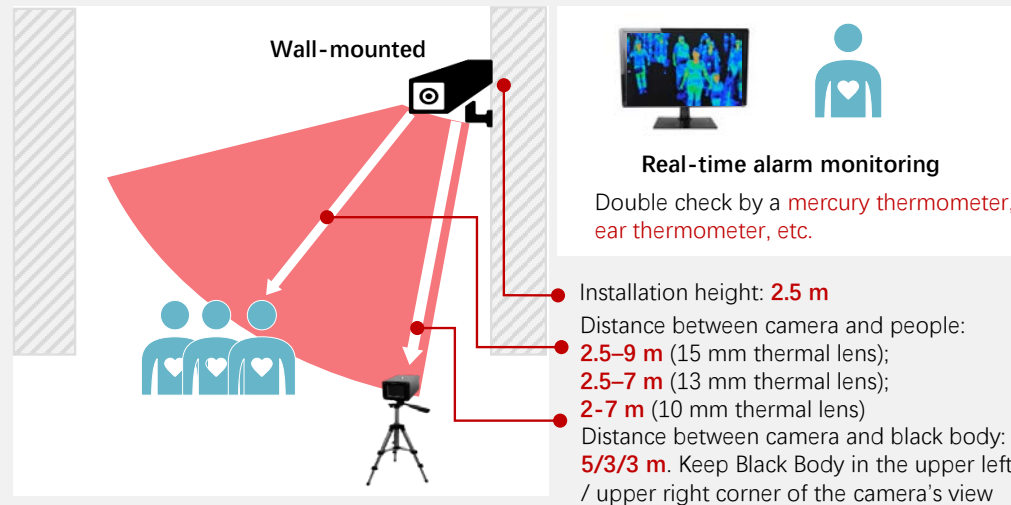### Product Design

- Thermal: 384 × 288, lens: 10/13/15 mm
- Optical: 2688 × 1520, lens: 4/6/6 mm
- **Accuracy: ±0.5C°**
- Measurement range: 30-45C°
- Working Temperature : 10-35C°
- **AI detection to reduce false alarms**

DS-2TD2636B-15/P
DS-2TD2636B-13/P
DS-2TD2637B-10/P

Wall-mounted

Real-time alarm monitoring
Double check by a mercury thermometer, ear thermometer, etc.

Installation height: **2.5 m**
Distance between camera and people:
2.5–9 m (15 mm thermal lens);
2.5–7 m (13 mm thermal lens);
2-7 m (10 mm thermal lens)
Distance between camera and black body:
5/3/3 m. Keep Black Body in the upper left / upper right corner of the camera's view

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Application Scenarios

School
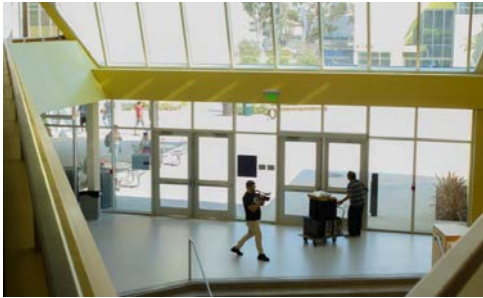
Entrance of college building

Entrance of dormitory

Retail

Entrance of supermarket

Entrance of restaurant

Office Building

Elevator foyer of parking lot

Entrance of office building

Airport

Security Check at Airport

Entrance of terminal

Recommended for indoor scenarios, as large fluctuations of outdoor Temperature will influence the Temperature measurement accuracy.

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Application Scenarios

Workshop

Office

Classroom

Recommended for indoor scenarios, as large fluctuations of outdoor Temperature will influence the Temperature measurement accuracy.

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Hikvision Advantages

AI detection

Hikvision thermographic Temperature screening Bullet/Turret cameras provide AI Detection function, locates multiple faces intelligently and measures the Temperature of faces only to reduce false alarms from other heat sources.

Self-developed Detector

Hikvision applies its self-developed thermal detector with unique image processing algorithm. Greatly reduces the noise to improve the accuracy of the Temperature measurement.

Camera Temperature measurement accuracy can achieve ±0.5 ℃.

WHY WE CHOOSE HIKVISION

Onboard Audio Alarm

Hikvision thermographic Temperature screening Bullet/Turret /handheld cameras feature onboard audio alarm to notify the operator without the requirement of auxiliary sirens. This reduces the complexity of whole solution and makes it easier and quicker to deploy.

End-to-end Solution

As the world's leading security solution provider , Hikvision is able to provide a full one-stop solution including thermography cameras, surveillance cameras, NVR's , pedestrian barriers, etc.

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

E FFICIENT
Automatic alarm triggering, reducing manpower invested.

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

T RACEABLE
Combining Temperature , image and face identification for easy management and query.

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Installation Notes

Seven tips before determining the installation scenario:

1. **Indoor environment** with stable ambient Temperature (10-35 degrees Centigrade).
2. Follow the **installation instruction** in regard to installation position, height and target person distance.
3. Make sure you **preheat** the device, 5min for handheld, 30min for portable and fixed.
4. One-way screening zone to see clear face image, better to remain stationary for a short period of time when measuring. Where people remain on site for a long period, exit screening may be a consideration.
5. Ensure there are stable and sufficient lighting conditions. High backlight should be avoided where possible.
6. Avoid crowded background, with **no interfering heat source** in it.
7. Give body a bit of time to return to its normal Temperature when coming from outside.

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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: ±0.5C° (± 0.3C° with black body)
- Measurement range: 30-45C°
- Supports audio alarms

DS-2TD2617B-3/6PA

Thermographic turret 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: ±0.5C° (±0.3C° with black body)
- Measurement range: 30-45C°
- Supports audio alarms

DS-2TD1217B-3/6PA

Black body Calibrator (Optional)

- Temperature resolution: 0.1C°
- Accuracy: ±0.1C°
- Temperature stability: ±0.1C°/h
- Effective emissivity: 0.97±0.02
- Operating Temperature : 0-30C°

DS-2TE127-G4A

Thermographic bullet camera

- Thermal: 384 × 288, lens: 15 mm/13 mm/10 mm
- Optical: 2688 × 1520, lens: 6mm/6mm/4mm
- Accuracy: ±0.5C° (± 0.3C° with black body)
- Measurement range: 30-45C°
- Working Temperature : 10-35C°
- AI human detection, false alarms reduction
- Simultaneous Temperature screening for multiple people (Up to 30 people)

DS-2TD2636B-15/P
DS-2TD2636B-13/P
DS-2TD2637B-10/P

Handheld thermographic camera

- Thermal resolution: 160 × 120
- Optical resolution: 640 × 480
- Measurement range: 30-45C°
- Touch screen
- Accuracy: ±0.5C°
- Bi-spectrum image fusion
- Supports Wi-Fi
- Supports audio alarms
- Automatic screenshots & uploading

DS-2TP21B-6AVF/W

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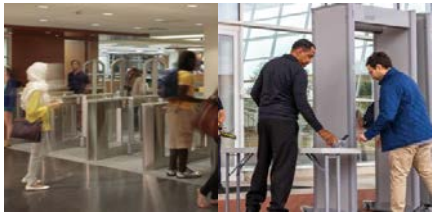
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Solution - Others

Solution 3 Temperature Screening with Access Control

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

🌡🚪 **Touch-Free, Access is Easier but Safer**

ν **With Turnstile Control**
- Personnel identification & Temperature screening

ν **With 3rd Party Turnstile Control**
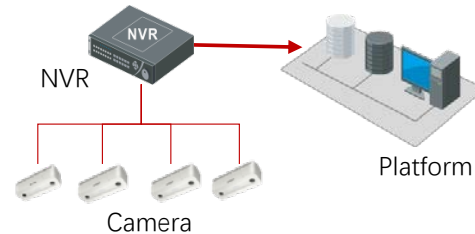- Reusing existing barrier gates: 3rd party turnstile integration via I/O or Wiegand

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

ν **With Stand Alone Terminal**

Solution 4 People Flow Control

NVR

Camera

Platform

ꭴ People counting
ꭴ Real-time retention number display
ꭴ Over threshold alarm

👥 **Easier control**

ν **People Counting Camera**
- People enter/exit counting

ν **Network Recorder**
- Display real-time number of people in the area, alarms when the number exceeds the threshold.

ν **Video management platform**
- Central manage multiple areas, display real-time number of people in the area, alarms when the number exceeds the threshold.

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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: ±0.5C°, range: 30~45C°
- Face Recognition Duration(1:N) ≤0.2s
- Face Recognition Distance: 0.3m ~ 2m

DS-K1T671TM-3XF
(for wall mounted)

DS-K5604A-3XF/V
(for barrier gate)

DS-K5604A-3XF/V
(standalone)

Turnstile

- 650-1100 mm width left/middle/right lane
- Speed of throughput: up to 60 people/min
- 12 pairs of IR light detectors
- Build-in controller & IC card reader
- SUS304 stainless steel pedestal & acrylic swing
- Compatible with face recognition terminal & Temperature measuring with installation

DS-K3B601 Series

People Counting Camera

- People counting
- 1920 × 1080 @ 30fps
- Dual channels colorful images
- Deep learning algorithms
- Reverse alarm

DS-2CD6825G0/C-I(V)(S)

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FAQ

Q: Can the thermal camera trigger alarm?

A: Multiple alarms are supported, including audio alarm and pop up window alarm to raise instant attention, as well as email/mobile notification

Q: What is the battery life and charging time of the handheld camera?

A: Battery life – 5 hours with Wi-Fi, supplement light off and 4 hours with Wi-Fi, supplement light on.
Charging time – around 4 hours

Q: Can I have the handheld camera operating and charging at the same time?

A: YES, the handheld camera comes with power adaptor, it supports charging and operating at the same time to realize continuous use.

Q: Can the handheld device record the footage?

A: Yes, the handheld device comes with a built-in memory to store picture and video, picture and video could be uploaded to Hik-Thermal mobile app or iVMS-4200 software.

Q: Does the camera integrate temperature data with other VMS systems?

A: The camera support display/ overwrite temperature on video stream, thus any VMS could display the temperature information on the video stream.

Q: Does the camera have alarm output interface?

A: All the cameras (bullet\turrets) except the handheld one have alarm outputs.

Q: How is the face detection function related to the thermal measurement?

A: The thermal camera has one optical lens and one thermal lens, optical lens support detect face and locate the face, then thermal camera would only measure the temperature in that face area, thus to reduce the false alarm if people is holding other heat source like hot coffee, mobile phone etc.

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